

Astrodienst Ephemeris Tables from the year 1650 for 50 years

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 1650 GC 00:00 UT

| | Sid.t | 0 | D | ğ | φ | o™ | 4 | ħ |)f(| ¥ | Р | u | Ω | Ç | ç | Day |
|------|---------|-------------------|-----------------|-----------------|-----------------|--------|----------------|--------|----------------|----------------|---------------|----------------|-------|---------------|-----------------|------|
| S 1 | 6 42 54 | 10 ට 51'32 | 20 × 31 | 19 .7 49 | 11 ×7 47 | 3≈25 | 5 M 27 | 25°R43 | 15 × 16 | 15 × 37 | 9°R33 | 26°R 3 | 24823 | 1 П 59 | 1°R53 | S 1 |
| S 2 | 6 46 50 | 11°52'44 | 5 云 28 | 21° 8 | 13° 2 | 4°13 | 5°36 | 25耳38 | 15°19 | 15°39 | 9∏32 | 25 8 59 | 24°20 | 2° 5 | 1 m) 51 | S 2 |
| M 3 | 6 50 47 | 12°53'55 | 20°19 | 22°28 | 14°16 | 5° 0 | 5°44 | 25°34 | 15°23 | 15°41 | 9°31 | 25°52 | 24°17 | 2°12 | 1°49 | M 3 |
| T 4 | 6 54 43 | 13°55'07 | 4≈55 | 23°50 | 15°31 | 5°47 | 5°52 | 25°29 | 15°26 | 15°43 | 9°30 | 25°44 | 24°14 | 2°19 | 1°47 | T 4 |
| W 5 | 6 58 40 | 14°56'17 | 19°10 | 25°12 | 16°45 | 6°35 | 6° 1 | 25°24 | 15°29 | 15°45 | 9°30 | 25°36 | 24°10 | 2°25 | 1°44 | W 5 |
| T 6 | 7 2 37 | 15°57'28 | 2 ∺ 57 | 26°36 | 18° 0 | 7°22 | 6° 9 | 25°20 | 15°33 | 15°47 | 9°29 | 25°28 | 24° 7 | 2°32 | 1°42 | T 6 |
| F 7 | 7 6 33 | 16°58'38 | 16°17 | 28° 0 | 19°14 | 8° 9 | 6°17 | 25°16 | 15°36 | 15°49 | 9°28 | 25°22 | 24° 4 | 2°39 | 1°40 | F 7 |
| S 8 | 7 10 30 | 17°59'47 | 29°11 | 29°25 | 20°29 | 8°57 | 6°24 | 25°11 | 15°39 | 15°51 | 9°27 | 25°18 | 24° 1 | 2°45 | 1°37 | S 8 |
| S 9 | 7 14 26 | 19° 0'55 | 11 Y 41 | 0 ප 51 | 21°44 | 9°44 | 6°32 | 25° 7 | 15°42 | 15°53 | 9°26 | 25°16 | 23°58 | 2°52 | 1°35 | S 9 |
| M10 | 7 18 23 | 20° 2'02 | 23°52 | 2°18 | 22°58 | 10°31 | 6°39 | 25° 3 | 15°46 | 15°55 | 9°25 | 25°D16 | 23°54 | 2°59 | 1°32 | M10 |
| T 11 | 7 22 19 | 21° 3'09 | 5 8 49 | 3°45 | 24°13 | 11°19 | 6°47 | 24°58 | 15°49 | 15°57 | 9°24 | 25°17 | 23°51 | 3° 5 | 1°29 | T 11 |
| W12 | 7 26 16 | 22° 4'15 | 17°38 | 5°14 | 25°28 | 12° 6 | 6°54 | 24°54 | 15°52 | 15°59 | 9°24 | 25°18 | 23°48 | 3°12 | 1°26 | W12 |
| T 13 | 7 30 12 | 23° 5'21 | 29°25 | 6°42 | 26°42 | 12°54 | 7° 1 | 24°50 | 15°55 | 16° 1 | 9°23 | 25°R18 | 23°45 | 3°19 | 1°23 | T 13 |
| F 14 | 7 34 9 | 24° 6'25 | 11 I I13 | 8°12 | 27°57 | 13°41 | 7° 8 | 24°46 | 15°58 | 16° 3 | 9°22 | 25°16 | 23°42 | 3°25 | 1°20 | F 14 |
| S 15 | 7 38 6 | 25° 7'29 | 23° 7 | 9°42 | 29°11 | 14°29 | 7°15 | 24°42 | 16° 1 | 16° 5 | 9°21 | 25°12 | 23°39 | 3°32 | 1°17 | S 15 |
| S 16 | 7 42 2 | 26° 8'32 | 5910 | 11°12 | 0 궁 26 | 15°16 | 7°21 | 24°38 | 16° 4 | 16° 7 | 9°20 | 25° 6 | 23°35 | 3°39 | 1°14 | S 16 |
| M17 | 7 45 59 | 27° 9'34 | 17°24 | 12°44 | 1°41 | 16° 3 | 7°28 | 24°34 | 16° 7 | 16° 9 | 9°20 | 24°57 | 23°32 | 3°45 | 1°11 | M17 |
| T 18 | 7 49 55 | 28°10'35 | 29°51 | 14°16 | 2°55 | 16°51 | 7°34 | 24°31 | 16°10 | 16°10 | 9°19 | 24°45 | 23°29 | 3°52 | 1° 7 | T 18 |
| W19 | 7 53 52 | 29°11'36 | $12\Omega_{30}$ | 15°48 | 4°10 | 17°38 | 7°41 | 24°27 | 16°13 | 16°12 | 9°18 | 24°33 | 23°26 | 3°58 | 1° 4 | W19 |
| T 20 | 7 57 48 | 0≈12'36 | 25°23 | 17°21 | 5°25 | 18°26 | 7°47 | 24°24 | 16°16 | 16°14 | 9°18 | 24°21 | 23°23 | 4° 5 | 1° 0 | T 20 |
| F 21 | 8 1 45 | 1°13'35 | 8 Mp 27 | 18°55 | 6°40 | 19°13 | 7°53 | 24°20 | 16°19 | 16°16 | 9°17 | 24°10 | 23°20 | 4°12 | 0°57 | F 21 |
| S 22 | 8 5 41 | 2°14'33 | 21°43 | 20°29 | 7°54 | 20° 0 | 7°58 | 24°17 | 16°22 | 16°17 | 9°16 | 24° 2 | 23°16 | 4°18 | 0°53 | S 22 |
| S 23 | 8 9 38 | 3°15'30 | 5 ₾ 9 | 22° 4 | 9° 9 | 20°48 | 8° 4 | 24°13 | 16°24 | 16°19 | 9°16 | 23°56 | 23°13 | 4°25 | 0°49 | S 23 |
| M24 | 8 13 35 | 4°16'27 | 18°46 | 23°40 | 10°24 | 21°35 | 8° 9 | 24°10 | 16°27 | 16°21 | 9°15 | 23°53 | 23°10 | 4°32 | 0°45 | M24 |
| T 25 | 8 17 31 | 5°17'23 | 2MJ35 | 25°16 | 11°38 | 22°23 | 8°15 | 24° 7 | 16°30 | 16°22 | 9°14 | 23°D52 | 23° 7 | 4°38 | 0°41 | T 25 |
| W26 | 8 21 28 | 6°18'18 | 16°35 | 26°53 | 12°53 | 23°10 | 8°20 | 24° 4 | 16°33 | 16°24 | 9°14 | 23°R52 | 23° 4 | 4°45 | 0°37 | W26 |
| T 27 | 8 25 24 | 7°19'13 | 0 ₮ 46 | 28°31 | 14° 8 | 23°58 | 8°25 | 24° 1 | 16°35 | 16°26 | 9°13 | 23°52 | 23° 0 | 4°52 | 0°33 | T 27 |
| F 28 | 8 29 21 | 8°20'07 | 15° 8 | 0≈ 9 | 15°23 | 24°45 | 8°30 | 23°58 | 16°38 | 16°27 | 9°13 | 23°50 | 22°57 | 4°58 | 0°29 | F 28 |
| S 29 | 8 33 17 | 9°21'00 | 29°37 | 1°49 | 16°38 | 25°32 | 8°34 | 23°56 | 16°41 | 16°29 | 9°12 | 23°46 | 22°54 | 5° 5 | 0°25 | S 29 |
| S 30 | 8 37 14 | 10°21'52 | 14 궁 10 | 3°28 | 17°52 | 26°20 | 8°39 | 23°53 | 16°43 | 16°30 | 9°12 | 23°39 | 22°51 | 5°12 | 0°21 | S 30 |
| M31 | 8 41 11 | 11≈22'44 | 28 궁 39 | 5≈ 9 | 19 る 7 | 27≈≈ 7 | 8 M .43 | 23耳50 | 16 ₮ 46 | 16 ₹ 32 | 9 Ⅱ 11 | 23 8 30 | 22848 | 5 Ⅱ 18 | 0 m /16 | M31 |

Delta T = 43.31 sec

Greg. Calendar

FEBRUARY 1650 GC 00:00 UT

| Day | Sid.t | 0 | Ŋ | φ | · | ð | 4 | ħ | ¥ | ¥ | 2 | ß | Ω | Ç | Š. | Day |
|------|----------|------------------|------------------|----------------|-------|-----------------|----------------|--------|-----------------|----------------|---------------|--------|----------------|---------------|----------------|------|
| T 1 | 8 45 7 | 12≈23'34 | 12≈59 | 6≈51 | 20중22 | 27≈55 | 8 M .47 | 23°R48 | 16 ∡ 748 | 16 ₹ 33 | 9°R11 | 23°R18 | 22 8 45 | 5 Ⅱ 25 | 0°R12 | T 1 |
| W 2 | 8 49 4 | 13°24'22 | 27° 3 | 8°33 | 21°37 | 28°42 | 8°51 | 23耳46 | 16°50 | 16°35 | 9 Ⅱ 10 | 238 5 | 22°41 | 5°32 | 0 m) 8 | W 2 |
| T 3 | 8 53 0 | 14°25'09 | 10) (46 | 10°16 | 22°51 | 29°29 | 8°55 | 23°43 | 16°53 | 16°36 | 9°10 | 22°53 | 22°38 | 5°38 | 0° 3 | T 3 |
| F 4 | 8 56 57 | 15°25'55 | 24° 5 | 11°59 | 24° 6 | 0) (17 | 8°58 | 23°41 | 16°55 | 16°38 | 9°10 | 22°43 | 22°35 | 5°45 | 29 Ω 59 | F 4 |
| S 5 | 9 0 53 | 16°26'39 | 7 Υ 0 | 13°44 | 25°21 | 1° 4 | 9° 2 | 23°39 | 16°57 | 16°39 | 9° 9 | 22°35 | 22°32 | 5°51 | 29°54 | S 5 |
| S 6 | 9 4 50 | 17°27'22 | 19°33 | 15°29 | 26°36 | 1°51 | 9° 5 | 23°37 | 17° 0 | 16°40 | 9° 9 | 22°30 | 22°29 | 5°58 | 29°50 | S 6 |
| M 7 | 9 8 46 | 18°28'03 | 1846 | 17°16 | 27°50 | 2°39 | 9° 8 | 23°35 | 17° 2 | 16°42 | 9° 9 | 22°27 | 22°26 | 6° 5 | 29°45 | M 7 |
| T 8 | 9 12 43 | 19°28'42 | 13°45 | 19° 3 | 29° 5 | 3°26 | 9°11 | 23°34 | 17° 4 | 16°43 | 9° 8 | 22°26 | 22°22 | 6°11 | 29°40 | T 8 |
| W 9 | 9 16 39 | 20°29'20 | 25°36 | 20°50 | 0≈20 | 4°13 | 9°14 | 23°32 | 17° 6 | 16°44 | 9° 8 | 22°26 | 22°19 | 6°18 | 29°36 | W 9 |
| T 10 | 9 20 36 | 21°29'56 | 7 Ⅱ 23 | 22°39 | 1°35 | 5° 1 | 9°16 | 23°31 | 17° 8 | 16°45 | 9° 8 | 22°26 | 22°16 | 6°25 | 29°31 | T 10 |
| F 11 | 9 24 33 | 22°30'30 | 19°13 | 24°28 | 2°49 | 5°48 | 9°18 | 23°29 | 17°10 | 16°47 | 9° 8 | 22°24 | 22°13 | 6°31 | 29°26 | F 11 |
| S 12 | 9 28 29 | 23°31'03 | 19510 | 26°18 | 4° 4 | 6°35 | 9°21 | 23°28 | 17°12 | 16°48 | 9° 7 | 22°19 | 22°10 | 6°38 | 29°22 | S 12 |
| S 13 | 9 32 26 | 24°31'33 | 13°19 | 28° 9 | 5°19 | 7°22 | 9°23 | 23°27 | 17°14 | 16°49 | 9° 7 | 22°12 | 22° 6 | 6°45 | 29°17 | S 13 |
| M14 | 9 36 22 | 25°32'02 | 25°42 | 0) 1 | 6°33 | 8° 9 | 9°24 | 23°26 | 17°16 | 16°50 | 9° 7 | 22° 2 | 22° 3 | 6°51 | 29°12 | M14 |
| T 15 | 9 40 19 | 26°32'30 | 8 Ω 23 | 1°52 | 7°48 | 8°57 | 9°26 | 23°25 | 17°18 | 16°51 | 9° 7 | 21°50 | 22° 0 | 6°58 | 29° 8 | T 15 |
| W16 | 9 44 15 | 27°32'55 | 21°20 | 3°45 | 9° 3 | 9°44 | 9°27 | 23°24 | 17°20 | 16°52 | 9° 7 | 21°37 | 21°57 | 7° 5 | 29° 3 | W16 |
| T 17 | 9 48 12 | 28°33'19 | 4 m /35 | 5°37 | 10°18 | 10°31 | 9°29 | 23°23 | 17°22 | 16°53 | 9° 7 | 21°23 | 21°54 | 7°11 | 28°58 | T 17 |
| F 18 | 9 52 9 | 29°33'41 | 18° 3 | 7°30 | 11°32 | 11°18 | 9°30 | 23°23 | 17°23 | 16°54 | 9° 6 | 21°11 | 21°51 | 7°18 | 28°53 | F 18 |
| S 19 | 9 56 5 | 0) 34′01 | 1 ≏ 43 | 9°23 | 12°47 | 12° 5 | 9°31 | 23°22 | 17°25 | 16°55 | 9° 6 | 21° 2 | 21°47 | 7°25 | 28°48 | S 19 |
| S 20 | 10 0 2 | 1°34'20 | 15°32 | 11°16 | 14° 2 | 12°52 | 9°31 | 23°22 | 17°26 | 16°56 | 9° 6 | 20°55 | 21°44 | 7°31 | 28°44 | S 20 |
| M21 | 10 3 58 | 2°34'37 | 29°27 | 13° 8 | 15°16 | 13°39 | 9°32 | 23°21 | 17°28 | 16°57 | 9°D 6 | 20°51 | 21°41 | 7°38 | 28°39 | M21 |
| T 22 | 10 7 55 | 3°34'53 | 13 M 27 | 15° 0 | 16°31 | 14°26 | 9°32 | 23°21 | 17°30 | 16°58 | 9° 6 | 20°49 | 21°38 | 7°45 | 28°34 | T 22 |
| W23 | 10 11 51 | 4°35'08 | 27°30 | 16°50 | 17°46 | 15°13 | 9°R32 | 23°D21 | 17°31 | 16°59 | 9° 6 | 20°49 | 21°35 | 7°51 | 28°29 | W23 |
| T 24 | 10 15 48 | 5°35'21 | 11 × 35 | 18°39 | 19° 1 | 16° 0 | 9°32 | 23°21 | 17°32 | 16°59 | 9° 6 | 20°49 | 21°32 | 7°58 | 28°25 | T 24 |
| F 25 | 10 19 44 | 6°35'33 | 25°42 | 20°26 | 20°15 | 16°47 | 9°32 | 23°22 | 17°34 | 17° 0 | 9° 6 | 20°48 | 21°28 | 8° 4 | 28°20 | F 25 |
| S 26 | 10 23 41 | 7°35'43 | 9 궁 50 | 22°11 | 21°30 | 17°34 | 9°31 | 23°22 | 17°35 | 17° 1 | 9° 7 | 20°45 | 21°25 | 8°11 | 28°15 | S 26 |
| S 27 | 10 27 38 | 8°35'51 | 23°56 | 23°54 | 22°45 | 18°21 | 9°31 | 23°22 | 17°36 | 17° 1 | 9° 7 | 20°38 | 21°22 | 8°18 | 28°11 | S 27 |
| M28 | 10 31 34 | 9 ∺ 35'58 | 7≈58 | 25) 33 | 23≈59 | 19 米 8 | 9 M .30 | 23Ⅲ23 | 17 ∡ 738 | 17 .₹ 2 | 9 I 7 | 20829 | 21819 | 8 Ⅲ 24 | 28 N 6 | M28 |

Delta T = 43.25 sec

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|------|----------|-------------------|-----------------|------------------|---------------|----------------|---------------|--------|-----------------|---------------|------|---------------|-------|----------------|----------------|------|
| T 1 | 10 35 31 | 10 米 36'03 | 21≈51 | 27 ∺ 8 | 25≈14 | 19 ∺ 54 | 9°R29 | 23耳23 | 17 × 39 | 17 ⋌ 3 | 9耳 7 | 20°R18 | 21816 | 8耳31 | 28°R 1 | T 1 |
| W 2 | 10 39 27 | 11°36'06 | 5) €32 | 28°39 | 26°29 | 20°41 | 9 M 28 | 23°24 | 17°40 | 17° 3 | 9° 7 | 208 6 | 21°12 | 8°38 | 27 Ω 57 | W 2 |
| T 3 | 10 43 24 | 12°36'08 | 18°57 | 0 Υ 5 | 27°43 | 21°28 | 9°26 | 23°25 | 17°41 | 17° 4 | 9° 7 | 19°55 | 21° 9 | 8°44 | 27°52 | T 3 |
| F 4 | 10 47 20 | 13°36'07 | 2 ℃ 3 | 1°25 | 28°58 | 22°15 | 9°25 | 23°26 | 17°42 | 17° 4 | 9° 8 | 19°45 | 21° 6 | 8°51 | 27°48 | F 4 |
| S 5 | 10 51 17 | 14°36'04 | 14°51 | 2°40 | 0 ∺ 12 | 23° 1 | 9°23 | 23°27 | 17°43 | 17° 5 | 9° 8 | 19°37 | 21° 3 | 8°58 | 27°43 | S 5 |
| S 6 | 10 55 13 | 15°36'00 | 27°19 | 3°48 | 1°27 | 23°48 | 9°21 | 23°28 | 17°44 | 17° 5 | 9° 8 | 19°32 | 21° 0 | 9° 4 | 27°39 | S 6 |
| M 7 | 10 59 10 | 16°35'53 | 9 8 32 | 4°49 | 2°42 | 24°35 | 9°19 | 23°30 | 17°45 | 17° 6 | 9° 8 | 19°30 | 20°57 | 9°11 | 27°34 | M 7 |
| T 8 | 11 3 6 | 17°35'44 | 21°31 | 5°43 | 3°56 | 25°21 | 9°16 | 23°31 | 17°45 | 17° 6 | 9° 9 | 19°D30 | 20°53 | 9°18 | 27°30 | T 8 |
| W 9 | 11 7 3 | 18°35'33 | 3 Ⅱ 23 | 6°30 | 5°11 | 26° 8 | 9°14 | 23°33 | 17°46 | 17° 7 | 9° 9 | 19°30 | 20°50 | 9°24 | 27°26 | W 9 |
| T 10 | 11 11 0 | 19°35'19 | 15°11 | 7° 8 | 6°25 | 26°54 | 9°11 | 23°34 | 17°47 | 17° 7 | 9° 9 | 19°R31 | 20°47 | 9°31 | 27°22 | T 10 |
| F 11 | 11 14 56 | 20°35'04 | 27° 1 | 7°38 | 7°40 | 27°41 | 9° 8 | 23°36 | 17°47 | 17° 7 | 9°10 | 19°31 | 20°44 | 9°38 | 27°17 | F 11 |
| S 12 | 11 18 53 | 21°34'46 | 999 0 | 8° 0 | 8°55 | 28°27 | 9° 5 | 23°38 | 17°48 | 17° 7 | 9°10 | 19°29 | 20°41 | 9°44 | 27°13 | S 12 |
| S 13 | 11 22 49 | 22°34'26 | 21°10 | 8°13 | 10° 9 | 29°14 | 9° 2 | 23°40 | 17°49 | 17° 8 | 9°11 | 19°25 | 20°37 | 9°51 | 27° 9 | S 13 |
| M14 | 11 26 46 | 23°34'03 | 3 Ω 38 | 8°R18 | 11°24 | 0Υ 0 | 8°59 | 23°42 | 17°49 | 17° 8 | 9°11 | 19°19 | 20°34 | 9°58 | 27° 5 | M14 |
| T 15 | 11 30 42 | 24°33'38 | 16°26 | 8°15 | 12°38 | 0°46 | 8°55 | 23°44 | 17°50 | 17° 8 | 9°11 | 19°11 | 20°31 | 10° 4 | 27° 1 | T 15 |
| W16 | 11 34 39 | 25°33'11 | 29°35 | 8° 4 | 13°53 | 1°33 | 8°51 | 23°46 | 17°50 | 17° 8 | 9°12 | 19° 2 | 20°28 | 10°11 | 26°57 | W16 |
| T 17 | 11 38 35 | 26°32'42 | 13 mg 5 | 7°46 | 15° 7 | 2°19 | 8°48 | 23°49 | 17°50 | 17° 8 | 9°12 | 18°52 | 20°25 | 10°18 | 26°54 | T 17 |
| F 18 | 11 42 32 | 27°32'11 | 26°55 | 7°20 | 16°22 | 3° 5 | 8°43 | 23°51 | 17°50 | 17° 8 | 9°13 | 18°44 | 20°22 | 10°24 | 26°50 | F 18 |
| S 19 | 11 46 29 | 28°31'37 | 11 ♀ 0 | 6°48 | 17°36 | 3°51 | 8°39 | 23°54 | 17°51 | 17°R 8 | 9°13 | 18°37 | 20°18 | 10°31 | 26°46 | S 19 |
| S 20 | 11 50 25 | 29°31'02 | 25°16 | 6°11 | 18°51 | 4°38 | 8°35 | 23°56 | 17°51 | 17° 8 | 9°14 | 18°33 | 20°15 | 10°37 | 26°43 | S 20 |
| M21 | 11 54 22 | 0 Υ 30'25 | 9 M 37 | 5°29 | 20° 5 | 5°24 | 8°30 | 23°59 | 17°51 | 17° 8 | 9°15 | 18°31 | 20°12 | 10°44 | 26°39 | M21 |
| T 22 | 11 58 18 | 1°29'46 | 24° 0 | 4°43 | 21°19 | 6°10 | 8°26 | 24° 2 | 17°51 | 17° 8 | 9°15 | 18°D30 | 20° 9 | 10°51 | 26°36 | T 22 |
| W23 | 12 2 15 | 2°29'05 | 8 √ 19 | 3°54 | 22°34 | 6°56 | 8°21 | 24° 5 | 17°R51 | 17° 8 | 9°16 | 18°31 | 20° 6 | 10°57 | 26°32 | W23 |
| T 24 | 12 6 11 | 3°28'22 | 22°33 | 3° 4 | 23°48 | 7°42 | 8°16 | 24° 8 | 17°51 | 17° 8 | 9°17 | 18°32 | 20° 3 | 11° 4 | 26°29 | T 24 |
| F 25 | 12 10 8 | 4°27'38 | 6 ප 40 | 2°13 | 25° 3 | 8°28 | 8°11 | 24°11 | 17°51 | 17° 8 | 9°17 | 18°R33 | 19°59 | 11°11 | 26°26 | F 25 |
| S 26 | 12 14 4 | 5°26'52 | 20°38 | 1°22 | 26°17 | 9°14 | 8° 5 | 24°15 | 17°51 | 17° 8 | 9°18 | 18°32 | 19°56 | 11°17 | 26°23 | S 26 |
| S 27 | 12 18 1 | 6°26'04 | 4≈27 | 0°33 | 27°32 | 9°59 | 8° 0 | 24°18 | 17°51 | 17° 7 | 9°19 | 18°29 | 19°53 | 11°24 | 26°20 | S 27 |
| M28 | 12 21 58 | 7°25'15 | 18° 6 | 29) (46 | 28°46 | 10°45 | 7°54 | 24°22 | 17°50 | 17° 7 | 9°19 | 18°24 | 19°50 | 11°31 | 26°17 | M28 |
| T 29 | 12 25 54 | 8°24'23 | 1) 33 | 29° 2 | 0 Υ 0 | 11°31 | 7°49 | 24°25 | 17°50 | 17° 7 | 9°20 | 18°18 | 19°47 | 11°37 | 26°14 | T 29 |
| W30 | 12 29 51 | 9°23'30 | 14°48 | 28°22 | 1°15 | 12°17 | 7°43 | 24°29 | 17°50 | 17° 6 | 9°21 | 18°11 | 19°43 | 11°44 | 26°12 | W30 |
| T 31 | 12 33 47 | 10 Y 22'34 | 27) (49 | 27) 46 | 2 Υ 29 | 13 ° 2 | 7 M 37 | 24∏33 | 17 .7 49 | 17 ₹ 6 | 9∏22 | 18 8 5 | 19840 | 11 Ⅱ 51 | 26⋒ 9 | T 31 |
| 1 31 | 12 33 17 | 10 1 22 34 | -//(1) | 2//(10 | 2127 | 13 1 2 | / 1100 / | - 1433 | 110 17 | 1/2 0 | 7411 | 100 3 | 170.0 | .122.01 | _000 / | 1.5 |

Delta T = 43.20 sec

Greg. Calendar

APRIL 1650 GC 00:00 UT

| Day | Sid.t | \odot | D | φ | Ϋ́ | ď | 4 | ħ |)∤(| ¥ | 2 | n | Ω | ţ | δ | Day |
|------|----------|-------------------|-----------------|----------------|---------------|----------------|----------------|----------------|-----------------|----------------|---------------|----------------|-------|-----------------|----------------|------|
| F 1 | 12 37 44 | 11 Y 21'37 | 10 Y 35 | 27°R14 | 3 Υ43 | 13 Υ 48 | 7°R31 | 24∏37 | 17°R49 | 17°R 6 | 9П22 | 17°R59 | 19837 | 11 II 57 | 26°R 6 | F 1 |
| S 2 | 12 41 40 | 12°20'38 | 23° 7 | 26 ∺ 48 | 4°58 | 14°34 | 7 ™ 24 | 24°41 | 17 ∡ 748 | 17 .₹ 5 | 9°23 | 17 8 55 | 19°34 | 12° 4 | 26⋒ 4 | S 2 |
| S 3 | 12 45 37 | 13°19'36 | 5 8 26 | 26°27 | 6°12 | 15°19 | 7°18 | 24°45 | 17°48 | 17° 5 | 9°24 | 17°52 | 19°31 | 12°11 | 26° 2 | S 3 |
| M 4 | 12 49 33 | 14°18'32 | 17°32 | 26°11 | 7°26 | 16° 5 | 7°12 | 24°49 | 17°47 | 17° 4 | 9°25 | 17°D51 | 19°28 | 12°17 | 25°59 | M 4 |
| T 5 | 12 53 30 | 15°17'27 | 29°29 | 26° 0 | 8°41 | 16°50 | 7° 5 | 24°53 | 17°46 | 17° 4 | 9°26 | 17°52 | 19°24 | 12°24 | 25°57 | T 5 |
| W 6 | 12 57 27 | 16°16'19 | 11 I I19 | 25°D55 | 9°55 | 17°35 | 6°58 | 24°57 | 17°46 | 17° 3 | 9°27 | 17°54 | 19°21 | 12°31 | 25°55 | W 6 |
| T 7 | 13 1 23 | 17°15'09 | 23° 8 | 25°56 | 11° 9 | 18°21 | 6°52 | 25° 2 | 17°45 | 17° 3 | 9°27 | 17°55 | 19°18 | 12°37 | 25°53 | T 7 |
| F 8 | 13 5 20 | 18°13'56 | 4958 | 26° 1 | 12°23 | 19° 6 | 6°45 | 25° 6 | 17°44 | 17° 2 | 9°28 | 17°57 | 19°15 | 12°44 | 25°52 | F 8 |
| S 9 | 13 9 16 | 19°12'42 | 16°56 | 26°12 | 13°38 | 19°51 | 6°38 | 25°11 | 17°43 | 17° 1 | 9°29 | 17°R58 | 19°12 | 12°51 | 25°50 | S 9 |
| S 10 | 13 13 13 | 20°11'25 | 29° 6 | 26°28 | 14°52 | 20°37 | 6°31 | 25°15 | 17°42 | 17° 1 | 9°30 | 17°57 | 19° 9 | 12°57 | 25°48 | S 10 |
| M11 | 13 17 9 | 21°10'06 | 11Ω33 | 26°48 | 16° 6 | 21°22 | 6°24 | 25°20 | 17°41 | 17° 0 | 9°31 | 17°56 | 19° 5 | 13° 4 | 25°47 | M11 |
| T 12 | 13 21 6 | 22° 8'44 | 24°21 | 27°13 | 17°20 | 22° 7 | 6°17 | 25°25 | 17°40 | 16°59 | 9°32 | 17°53 | 19° 2 | 13°11 | 25°45 | T 12 |
| W13 | 13 25 2 | 23° 7'21 | 7 m 32 | 27°42 | 18°34 | 22°52 | 6° 9 | 25°30 | 17°39 | 16°58 | 9°33 | 17°50 | 18°59 | 13°17 | 25°44 | W13 |
| T 14 | 13 28 59 | 24° 5'55 | 21° 9 | 28°16 | 19°49 | 23°37 | 6° 2 | 25°35 | 17°38 | 16°58 | 9°34 | 17°46 | 18°56 | 13°24 | 25°43 | T 14 |
| F 15 | 13 32 55 | 25° 4'27 | 5 ₾ 9 | 28°53 | 21° 3 | 24°22 | 5°55 | 25°40 | 17°37 | 16°57 | 9°35 | 17°43 | 18°53 | 13°31 | 25°42 | F 15 |
| S 16 | 13 36 52 | 26° 2'57 | 19°31 | 29°34 | 22°17 | 25° 7 | 5°47 | 25°45 | 17°36 | 16°56 | 9°36 | 17°40 | 18°49 | 13°37 | 25°41 | S 16 |
| S 17 | 13 40 49 | 27° 1'25 | 4M 8 | 0 Υ 19 | 23°31 | 25°52 | 5°40 | 25°50 | 17°35 | 16°55 | 9°37 | 17°39 | 18°46 | 13°44 | 25°40 | S 17 |
| M18 | 13 44 45 | 27°59'51 | 18°55 | 1° 8 | 24°45 | 26°36 | 5°32 | 25°56 | 17°34 | 16°54 | 9°38 | 17°D38 | 18°43 | 13°50 | 25°39 | M18 |
| T 19 | 13 48 42 | 28°58'16 | 3 ∡ 743 | 1°59 | 25°59 | 27°21 | 5°25 | 26° 1 | 17°32 | 16°53 | 9°39 | 17°39 | 18°40 | 13°57 | 25°39 | T 19 |
| W20 | 13 52 38 | 29°56'39 | 18°26 | 2°54 | 27°13 | 28° 6 | 5°17 | 26° 6 | 17°31 | 16°52 | 9°41 | 17°40 | 18°37 | 14° 4 | 25°38 | W20 |
| T 21 | 13 56 35 | 0 8 55'00 | 2 る 59 | 3°52 | 28°27 | 28°51 | 5°10 | 26°12 | 17°29 | 16°51 | 9°42 | 17°41 | 18°34 | 14°10 | 25°38 | T 21 |
| F 22 | 14 0 31 | 1°53'20 | 17°18 | 4°53 | 29°41 | 29°35 | 5° 2 | 26°17 | 17°28 | 16°50 | 9°43 | 17°42 | 18°30 | 14°17 | 25°37 | F 22 |
| S 23 | 14 4 28 | 2°51'38 | 1 ≈ 19 | 5°57 | 0 8 55 | 0820 | 4°54 | 26°23 | 17°27 | 16°49 | 9°44 | 17°R43 | 18°27 | 14°24 | 25°37 | S 23 |
| S 24 | 14 8 25 | 3°49'55 | 15° 3 | 7° 3 | 2° 9 | 1° 4 | 4°47 | 26°29 | 17°25 | 16°48 | 9°45 | 17°42 | 18°24 | 14°30 | 25°D37 | S 24 |
| M25 | 14 12 21 | 4°48'10 | 28°29 | 8°12 | 3°24 | 1°49 | 4°39 | 26°35 | 17°23 | 16°47 | 9°46 | 17°41 | 18°21 | 14°37 | 25°37 | M25 |
| T 26 | 14 16 18 | 5°46'23 | 11 米 39 | 9°23 | 4°38 | 2°33 | 4°31 | 26°40 | 17°22 | 16°46 | 9°47 | 17°40 | 18°18 | 14°44 | 25°37 | T 26 |
| W27 | 14 20 14 | 6°44'35 | 24°32 | 10°37 | 5°52 | 3°17 | 4°24 | 26°46 | 17°20 | 16°45 | 9°49 | 17°39 | 18°14 | 14°50 | 25°38 | W27 |
| T 28 | 14 24 11 | 7°42'46 | 7 Υ 12 | 11°54 | 7° 6 | 4° 2 | 4°16 | 26°52 | 17°19 | 16°44 | 9°50 | 17°37 | 18°11 | 14°57 | 25°38 | T 28 |
| F 29 | 14 28 7 | 8°40'55 | 19°39 | 13°12 | 8°20 | 4°46 | 4° 8 | 26°58 | 17°17 | 16°43 | 9°51 | 17°36 | 18° 8 | 15° 4 | 25°38 | F 29 |
| S 30 | 14 32 4 | 9 8 39'02 | 1 8 55 | 14 Y 33 | 9 8 34 | 5 8 30 | 4 M , 1 | 27 II 5 | 17 √ 15 | 16 ₹ 41 | 9 耳 52 | 17 8 35 | 188 5 | 15 I I10 | 25 Ω 39 | S 30 |

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| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| ¥ | В | u | v | Ç | ę, | Day |
|------|----------|------------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|-----------------|----------------|------|
| S 1 | 14 36 0 | 10837'08 | 14 8 0 | 15 Y 56 | 10848 | 6 8 14 | 3°R53 | 27 Ⅱ 11 | 17°R13 | 16°R40 | 9Д53 | 17°D35 | 18 8 2 | 15 I I17 | 25 Ω 40 | S 1 |
| M 2 | 14 39 57 | 11°35'12 | 25°58 | 17°21 | 12° 1 | 6°59 | 3 M .46 | 27°17 | 17 × 12 | 16 × 39 | 9°55 | 17 8 35 | 17°59 | 15°24 | 25°41 | M 2 |
| T 3 | 14 43 53 | 12°33'14 | 7 Ⅱ 51 | 18°49 | 13°15 | 7°43 | 3°38 | 27°23 | 17°10 | 16°38 | 9°56 | 17°35 | 17°55 | 15°30 | 25°42 | T 3 |
| W 4 | 14 47 50 | 13°31'15 | 19°39 | 20°18 | 14°29 | 8°27 | 3°31 | 27°30 | 17° 8 | 16°36 | 9°57 | 17°36 | 17°52 | 15°37 | 25°43 | W 4 |
| T 5 | 14 51 47 | 14°29'13 | 19528 | 21°50 | 15°43 | 9°11 | 3°23 | 27°36 | 17° 6 | 16°35 | 9°58 | 17°36 | 17°49 | 15°44 | 25°44 | T 5 |
| F 6 | 14 55 43 | 15°27'11 | 13°19 | 23°23 | 16°57 | 9°54 | 3°16 | 27°42 | 17° 4 | 16°34 | 10° 0 | 17°37 | 17°46 | 15°50 | 25°45 | F 6 |
| S 7 | 14 59 40 | 16°25'06 | 25°17 | 24°59 | 18°11 | 10°38 | 3° 9 | 27°49 | 17° 2 | 16°33 | 10° 1 | 17°37 | 17°43 | 15°57 | 25°47 | S 7 |
| S 8 | 15 3 36 | 17°22'59 | 7 Ω 26 | 26°37 | 19°25 | 11°22 | 3° 1 | 27°55 | 17° 0 | 16°31 | 10° 2 | 17°R37 | 17°40 | 16° 4 | 25°48 | S 8 |
| M 9 | 15 7 33 | 18°20'51 | 19°51 | 28°17 | 20°39 | 12° 6 | 2°54 | 28° 2 | 16°58 | 16°30 | 10° 3 | 17°D37 | 17°36 | 16°10 | 25°50 | M 9 |
| T 10 | 15 11 29 | 19°18'41 | 2 Mp 35 | 29°59 | 21°53 | 12°49 | 2°47 | 28° 9 | 16°56 | 16°28 | 10° 5 | 17°37 | 17°33 | 16°17 | 25°51 | T 10 |
| W11 | 15 15 26 | 20°16'29 | 15°42 | 1 8 43 | 23° 7 | 13°33 | 2°40 | 28°15 | 16°54 | 16°27 | 10° 6 | 17°37 | 17°30 | 16°24 | 25°53 | W11 |
| T 12 | 15 19 22 | 21°14'16 | 29°15 | 3°29 | 24°20 | 14°17 | 2°33 | 28°22 | 16°52 | 16°26 | 10° 7 | 17°37 | 17°27 | 16°30 | 25°55 | T 12 |
| F 13 | 15 23 19 | 22°12'00 | 13 ≏ 14 | 5°17 | 25°34 | 15° 0 | 2°26 | 28°29 | 16°50 | 16°24 | 10° 9 | 17°38 | 17°24 | 16°37 | 25°57 | F 13 |
| S 14 | 15 27 16 | 23° 9'43 | 27°39 | 7° 7 | 26°48 | 15°44 | 2°19 | 28°36 | 16°47 | 16°23 | 10°10 | 17°38 | 17°20 | 16°44 | 25°59 | S 14 |
| S 15 | 15 31 12 | 24° 7'25 | 12 M 25 | 8°59 | 28° 2 | 16°27 | 2°13 | 28°43 | 16°45 | 16°21 | 10°11 | 17°R38 | 17°17 | 16°50 | 26° 2 | S 15 |
| M16 | 15 35 9 | 25° 5'05 | 27°26 | 10°53 | 29°16 | 17°10 | 2° 6 | 28°50 | 16°43 | 16°20 | 10°13 | 17°38 | 17°14 | 16°57 | 26° 4 | M16 |
| T 17 | 15 39 5 | 26° 2'45 | 12 ~ 34 | 12°49 | 0П29 | 17°54 | 2° 0 | 28°57 | 16°41 | 16°18 | 10°14 | 17°38 | 17°11 | 17° 4 | 26° 7 | T 17 |
| W18 | 15 43 2 | 27° 0'22 | 27°39 | 14°47 | 1°43 | 18°37 | 1°53 | 29° 4 | 16°39 | 16°17 | 10°15 | 17°37 | 17° 8 | 17°10 | 26° 9 | W18 |
| T 19 | 15 46 58 | 27°57'59 | 12 る 33 | 16°48 | 2°57 | 19°20 | 1°47 | 29°11 | 16°36 | 16°15 | 10°17 | 17°36 | 17° 5 | 17°17 | 26°12 | T 19 |
| F 20 | 15 50 55 | 28°55'35 | 27° 8 | 18°50 | 4°11 | 20° 3 | 1°41 | 29°18 | 16°34 | 16°14 | 10°18 | 17°35 | 17° 1 | 17°24 | 26°15 | F 20 |
| S 21 | 15 54 52 | 29°53'10 | 11≈22 | 20°53 | 5°24 | 20°46 | 1°35 | 29°25 | 16°32 | 16°12 | 10°19 | 17°34 | 16°58 | 17°30 | 26°18 | S 21 |
| S 22 | 15 58 48 | 0 Ⅱ 50'44 | 25°10 | 22°59 | 6°38 | 21°29 | 1°29 | 29°32 | 16°29 | 16°11 | 10°21 | 17°D33 | 16°55 | 17°37 | 26°21 | S 22 |
| M23 | 16 2 45 | 1°48'17 | 8) (34 | 25° 6 | 7°52 | 22°12 | 1°23 | 29°39 | 16°27 | 16° 9 | 10°22 | 17°33 | 16°52 | 17°44 | 26°24 | M23 |
| T 24 | 16 641 | 2°45'49 | 21°36 | 27°14 | 9° 6 | 22°55 | 1°17 | 29°47 | 16°25 | 16° 8 | 10°24 | 17°34 | 16°49 | 17°50 | 26°27 | T 24 |
| W25 | 16 10 38 | 3°43'20 | 4 Υ 18 | 29°24 | 10°19 | 23°38 | 1°12 | 29°54 | 16°22 | 16° 6 | 10°25 | 17°35 | 16°46 | 17°57 | 26°30 | W25 |
| T 26 | 16 14 34 | 4°40'50 | 16°43 | 1 Ⅲ 34 | 11°33 | 24°21 | 1° 6 | 0ର୍ତ୍ତ 1 | 16°20 | 16° 5 | 10°26 | 17°36 | 16°42 | 18° 4 | 26°34 | T 26 |
| F 27 | 16 18 31 | 5°38'20 | 28°56 | 3°45 | 12°47 | 25° 4 | 1° 1 | 0° 9 | 16°17 | 16° 3 | 10°28 | 17°38 | 16°39 | 18°10 | 26°37 | F 27 |
| S 28 | 16 22 27 | 6°35'49 | 10859 | 5°57 | 14° 1 | 25°46 | 0°56 | 0°16 | 16°15 | 16° 1 | 10°29 | 17°38 | 16°36 | 18°17 | 26°41 | S 28 |
| S 29 | 16 26 24 | 7°33'16 | 22°54 | 8° 9 | 15°14 | 26°29 | 0°51 | 0°23 | 16°13 | 16° 0 | 10°30 | 17°R38 | 16°33 | 18°24 | 26°45 | S 29 |
| M30 | 16 30 21 | 8°30'43 | 4∐45 | 10°21 | 16°28 | 27°12 | 0°46 | 0°31 | 16°10 | 15°58 | 10°32 | 17°37 | 16°30 | 18°30 | 26°48 | M30 |
| T 31 | 16 34 17 | 9Ⅱ28'09 | 16 Ⅲ 34 | 12Ⅲ33 | 17 Ⅲ 42 | 27 8 54 | 0 M .42 | 0ഇ38 | 16 ₹ 8 | 15 ₹ 57 | 10 Ⅲ 33 | 17 8 35 | 16826 | 18 Ⅲ 37 | 26€52 | T 31 |

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Greg. Calendar

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| Day | Sid.t | \odot | D | φ | φ | o ⁷ | 4 | ħ |)ұ(| ¥ | P 2 | n | Ω | ţ | Š | Day |
|------|----------|-------------------|----------------|---------------|--------|----------------|----------------|-------|-----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|------|
| W 1 | 16 38 14 | 10 Ⅲ 25'35 | 28 Ⅲ 23 | 14∏44 | 18耳55 | 28 8 37 | 0°R37 | 09546 | 16°R 5 | 15°R55 | 10耳35 | 17°R32 | 16823 | 18 Ⅱ 44 | 26€56 | W 1 |
| T 2 | 16 42 10 | 11°22'59 | 109513 | 16°54 | 20° 9 | 29°19 | 0 M .33 | 0°53 | 16 ⋌ 3 | 15 ₹ 53 | 10°36 | 17 8 29 | 16°20 | 18°50 | 27° 0 | T 2 |
| F 3 | 16 46 7 | 12°20'22 | 22° 8 | 19° 4 | 21°23 | 0 Ⅱ 2 | 0°29 | 1° 1 | 16° 0 | 15°52 | 10°37 | 17°25 | 16°17 | 18°57 | 27° 5 | F 3 |
| S 4 | 16 50 3 | 13°17'44 | 4 Ω 10 | 21°12 | 22°36 | 0°44 | 0°24 | 1° 9 | 15°58 | 15°50 | 10°39 | 17°21 | 16°14 | 19° 4 | 27° 9 | S 4 |
| S 5 | 16 54 0 | 14°15'06 | 16°21 | 23°18 | 23°50 | 1°26 | 0°21 | 1°16 | 15°56 | 15°48 | 10°40 | 17°17 | 16°11 | 19°10 | 27°13 | S 5 |
| M 6 | 16 57 56 | 15°12'26 | 28°46 | 25°23 | 25° 4 | 2° 9 | 0°17 | 1°24 | 15°53 | 15°47 | 10°42 | 17°15 | 16° 7 | 19°17 | 27°18 | M 6 |
| T 7 | 17 1 53 | 16° 9'45 | 11 M 27 | 27°26 | 26°17 | 2°51 | 0°13 | 1°31 | 15°51 | 15°45 | 10°43 | 17°D14 | 16° 4 | 19°24 | 27°22 | T 7 |
| W 8 | 17 5 50 | 17° 7'03 | 24°29 | 29°27 | 27°31 | 3°33 | 0°10 | 1°39 | 15°48 | 15°44 | 10°44 | 17°14 | 16° 1 | 19°30 | 27°27 | W 8 |
| T 9 | 17 9 46 | 18° 4'20 | 7 ≙ 54 | 19526 | 28°44 | 4°15 | 0° 7 | 1°47 | 15°46 | 15°42 | 10°46 | 17°15 | 15°58 | 19°37 | 27°32 | T 9 |
| F 10 | 17 13 43 | 19° 1'36 | 21°45 | 3°23 | 29°58 | 4°57 | 0° 4 | 1°54 | 15°43 | 15°40 | 10°47 | 17°17 | 15°55 | 19°44 | 27°37 | F 10 |
| S 11 | 17 17 39 | 19°58'52 | 6M 2 | 5°17 | 19512 | 5°39 | 0° 1 | 2° 2 | 15°41 | 15°39 | 10°48 | 17°18 | 15°52 | 19°50 | 27°42 | S 11 |
| S 12 | 17 21 36 | 20°56'07 | 20°43 | 7° 9 | 2°25 | 6°21 | 29 ₾ 58 | 2°10 | 15°38 | 15°37 | 10°50 | 17°R18 | 15°48 | 19°57 | 27°47 | S 12 |
| M13 | 17 25 32 | 21°53'21 | 5 ,₹ 43 | 9° 0 | 3°39 | 7° 3 | 29°56 | 2°18 | 15°36 | 15°36 | 10°51 | 17°17 | 15°45 | 20° 4 | 27°52 | M13 |
| T 14 | 17 29 29 | 22°50'34 | 20°56 | 10°47 | 4°52 | 7°45 | 29°53 | 2°25 | 15°33 | 15°34 | 10°53 | 17°14 | 15°42 | 20°10 | 27°57 | T 14 |
| W15 | 17 33 25 | 23°47'47 | 6 ਰ 11 | 12°33 | 6° 6 | 8°26 | 29°51 | 2°33 | 15°31 | 15°32 | 10°54 | 17°10 | 15°39 | 20°17 | 28° 2 | W15 |
| T 16 | 17 37 22 | 24°45'00 | 21°18 | 14°16 | 7°19 | 9° 8 | 29°49 | 2°41 | 15°29 | 15°31 | 10°55 | 17° 5 | 15°36 | 20°24 | 28° 7 | T 16 |
| F 17 | 17 41 19 | 25°42'12 | 6 ≈ 7 | 15°57 | 8°33 | 9°50 | 29°47 | 2°49 | 15°26 | 15°29 | 10°57 | 16°59 | 15°32 | 20°30 | 28°13 | F 17 |
| S 18 | 17 45 15 | 26°39'25 | 20°33 | 17°35 | 9°46 | 10°31 | 29°46 | 2°56 | 15°24 | 15°28 | 10°58 | 16°55 | 15°29 | 20°37 | 28°18 | S 18 |
| S 19 | 17 49 12 | 27°36'37 | 4 ∺ 30 | 19°11 | 11° 0 | 11°13 | 29°44 | 3° 4 | 15°21 | 15°26 | 10°59 | 16°51 | 15°26 | 20°44 | 28°24 | S 19 |
| M20 | 17 53 8 | 28°33'48 | 17°59 | 20°45 | 12°13 | 11°54 | 29°43 | 3°12 | 15°19 | 15°24 | 11° 1 | 16°49 | 15°23 | 20°50 | 28°30 | M20 |
| T 21 | 17 57 5 | 29°31'00 | 1 Υ 1 | 22°16 | 13°27 | 12°36 | 29°42 | 3°20 | 15°17 | 15°23 | 11° 2 | 16°D48 | 15°20 | 20°57 | 28°35 | T 21 |
| W22 | 18 1 1 | 09528'12 | 13°39 | 23°45 | 14°40 | 13°17 | 29°41 | 3°28 | 15°14 | 15°21 | 11° 3 | 16°49 | 15°17 | 21° 4 | 28°41 | W22 |
| T 23 | 18 4 58 | 1°25'24 | 25°59 | 25°11 | 15°54 | 13°59 | 29°40 | 3°36 | 15°12 | 15°20 | 11° 5 | 16°50 | 15°13 | 21°10 | 28°47 | T 23 |
| F 24 | 18 8 54 | 2°22'36 | 8 8 4 | 26°35 | 17° 7 | 14°40 | 29°40 | 3°43 | 15°10 | 15°18 | 11° 6 | 16°51 | 15°10 | 21°17 | 28°53 | F 24 |
| S 25 | 18 12 51 | 3°19'48 | 20° 0 | 27°56 | 18°21 | 15°21 | 29°39 | 3°51 | 15° 7 | 15°17 | 11° 7 | 16°R52 | 15° 7 | 21°24 | 28°59 | S 25 |
| S 26 | 18 16 48 | 4°17'01 | 1 Ⅱ 50 | 29°15 | 19°34 | 16° 2 | 29°39 | 3°59 | 15° 5 | 15°15 | 11° 9 | 16°50 | 15° 4 | 21°30 | 29° 5 | S 26 |
| M27 | 18 20 44 | 5°14'13 | 13°38 | 0 Ω 31 | 20°48 | 16°44 | 29°D39 | 4° 7 | 15° 3 | 15°14 | 11°10 | 16°47 | 15° 1 | 21°37 | 29°11 | M27 |
| T 28 | 18 24 41 | 6°11'25 | 25°26 | 1°45 | 22° 1 | 17°25 | 29°39 | 4°15 | 15° 1 | 15°12 | 11°11 | 16°42 | 14°58 | 21°44 | 29°18 | T 28 |
| W29 | 18 28 37 | 7° 8'38 | 79917 | 2°56 | 23°15 | 18° 6 | 29°39 | 4°23 | 14°58 | 15°11 | 11°12 | 16°34 | 14°54 | 21°50 | 29°24 | W29 |
| T 30 | 18 32 34 | 8 9 5'50 | 199513 | 4 Ω 4 | 249528 | 18 Ⅱ 47 | 29 ≙ 40 | 4930 | 14 × 756 | 15 × 9 | 11 II 14 | 16 8 25 | 14 8 51 | 21 II 57 | 29 Ω 30 | T 30 |

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|------|----------|------------------|----------------|---------------|---------|----------------|----------------|------|-----------------|----------------|-----------------|----------------|----------------|----------------|-----------------|------|
| F 1 | 18 36 30 | 999 3'03 | 1 Ω 16 | 5 Ω 9 | 259542 | 19 Ⅲ 28 | 29 ≏ 41 | 4938 | 14°R54 | 15°R 8 | 11 I I15 | 16°R15 | 14848 | 22 I 4 | 29 Ω 37 | F 1 |
| S 2 | 18 40 27 | 10° 0'15 | 13°26 | 6°12 | 26°55 | 20° 9 | 29°42 | 4°46 | 14 × 752 | 15 ₹ 6 | 11°16 | 168 6 | 14°45 | 22°11 | 29°43 | S 2 |
| S 3 | 18 44 24 | 10°57'27 | 25°45 | 7°11 | 28° 9 | 20°49 | 29°43 | 4°54 | 14°50 | 15° 5 | 11°17 | 15°57 | 14°42 | 22°17 | 29°50 | S 3 |
| M 4 | 18 48 20 | 11°54'39 | 8 Mp 16 | 8° 7 | 29°22 | 21°30 | 29°44 | 5° 2 | 14°48 | 15° 4 | 11°19 | 15°50 | 14°38 | 22°24 | 29°57 | M 4 |
| T 5 | 18 52 17 | 12°51'52 | 21° 1 | 9° 0 | 0Ω36 | 22°11 | 29°45 | 5° 9 | 14°46 | 15° 2 | 11°20 | 15°46 | 14°35 | 22°31 | 0 Mp 3 | T 5 |
| W 6 | 18 56 13 | 13°49'04 | 4 ♀ 1 | 9°50 | 1°49 | 22°52 | 29°47 | 5°17 | 14°43 | 15° 1 | 11°21 | 15°44 | 14°32 | 22°37 | 0°10 | W 6 |
| T 7 | 19 0 10 | 14°46'16 | 17°22 | 10°36 | 3° 2 | 23°32 | 29°49 | 5°25 | 14°41 | 14°59 | 11°22 | 15°D43 | 14°29 | 22°44 | 0°17 | T 7 |
| F 8 | 19 4 6 | 15°43'28 | 1 m 3 | 11°19 | 4°16 | 24°13 | 29°51 | 5°33 | 14°39 | 14°58 | 11°23 | 15°44 | 14°26 | 22°51 | 0°24 | F 8 |
| S 9 | 19 8 3 | 16°40'40 | 15° 8 | 11°57 | 5°29 | 24°54 | 29°53 | 5°40 | 14°38 | 14°57 | 11°25 | 15°R44 | 14°23 | 22°57 | 0°31 | S 9 |
| S 10 | 19 11 59 | 17°37'52 | 29°35 | 12°32 | 6°42 | 25°34 | 29°55 | 5°48 | 14°36 | 14°55 | 11°26 | 15°44 | 14°19 | 23° 4 | 0°38 | S 10 |
| M11 | 19 15 56 | 18°35'04 | 14 × 23 | 13° 3 | 7°56 | 26°14 | 29°57 | 5°56 | 14°34 | 14°54 | 11°27 | 15°41 | 14°16 | 23°11 | 0°45 | M11 |
| T 12 | 19 19 53 | 19°32'17 | 29°26 | 13°30 | 9° 9 | 26°55 | 0 m 0 | 6° 4 | 14°32 | 14°53 | 11°28 | 15°36 | 14°13 | 23°17 | 0°52 | T 12 |
| W13 | 19 23 49 | 20°29'30 | 14 궁 35 | 13°52 | 10°22 | 27°35 | 0° 3 | 6°11 | 14°30 | 14°52 | 11°29 | 15°28 | 14°10 | 23°24 | 0°59 | W13 |
| T 14 | 19 27 46 | 21°26'43 | 29°40 | 14°10 | 11°36 | 28°15 | 0° 6 | 6°19 | 14°28 | 14°50 | 11°30 | 15°19 | 14° 7 | 23°31 | 1° 6 | T 14 |
| F 15 | 19 31 42 | 22°23'57 | 14≈32 | 14°23 | 12°49 | 28°56 | 0° 9 | 6°27 | 14°26 | 14°49 | 11°31 | 15° 9 | 14° 4 | 23°37 | 1°14 | F 15 |
| S 16 | 19 35 39 | 23°21'11 | 29° 2 | 14°31 | 14° 2 | 29°36 | 0°12 | 6°34 | 14°25 | 14°48 | 11°32 | 15° 0 | 14° 0 | 23°44 | 1°21 | S 16 |
| S 17 | 19 39 35 | 24°18'26 | 13 米 6 | 14°R35 | 15°16 | 09516 | 0°16 | 6°42 | 14°23 | 14°47 | 11°33 | 14°53 | 13°57 | 23°51 | 1°28 | S 17 |
| M18 | 19 43 32 | 25°15'42 | 26°39 | 14°33 | 16°29 | 0°56 | 0°20 | 6°49 | 14°21 | 14°46 | 11°35 | 14°47 | 13°54 | 23°57 | 1°36 | M18 |
| T 19 | 19 47 28 | 26°12'59 | 9 Ƴ 45 | 14°27 | 17°42 | 1°36 | 0°23 | 6°57 | 14°20 | 14°45 | 11°36 | 14°44 | 13°51 | 24° 4 | 1°43 | T 19 |
| W20 | 19 51 25 | 27°10'16 | 22°25 | 14°15 | 18°55 | 2°16 | 0°27 | 7° 4 | 14°18 | 14°44 | 11°37 | 14°D43 | 13°48 | 24°11 | 1°51 | W20 |
| T 21 | 19 55 22 | 28° 7'35 | 4845 | 13°59 | 20° 9 | 2°56 | 0°31 | 7°12 | 14°17 | 14°42 | 11°38 | 14°43 | 13°44 | 24°17 | 1°58 | T 21 |
| F 22 | 19 59 18 | 29° 4'54 | 16°49 | 13°38 | 21°22 | 3°36 | 0°36 | 7°19 | 14°15 | 14°41 | 11°39 | 14°R43 | 13°41 | 24°24 | 2° 6 | F 22 |
| S 23 | 20 3 15 | oΩ 2'15 | 28°43 | 13°12 | 22°35 | 4°16 | 0°40 | 7°27 | 14°14 | 14°40 | 11°40 | 14°42 | 13°38 | 24°31 | 2°14 | S 23 |
| S 24 | 20 7 11 | 0°59'37 | 10 Ⅲ 31 | 12°42 | 23°48 | 4°56 | 0°45 | 7°34 | 14°12 | 14°39 | 11°41 | 14°40 | 13°35 | 24°37 | 2°21 | S 24 |
| M25 | 20 11 8 | 1°57'00 | 22°19 | 12° 8 | 25° 1 | 5°36 | 0°50 | 7°42 | 14°11 | 14°38 | 11°42 | 14°35 | 13°32 | 24°44 | 2°29 | M25 |
| T 26 | 20 15 4 | 2°54'23 | 49510 | 11°30 | 26°14 | 6°15 | 0°55 | 7°49 | 14° 9 | 14°37 | 11°42 | 14°27 | 13°29 | 24°51 | 2°37 | T 26 |
| W27 | 20 19 1 | 3°51'48 | 16° 6 | 10°49 | 27°28 | 6°55 | 1° 0 | 7°56 | 14° 8 | 14°36 | 11°43 | 14°16 | 13°25 | 24°57 | 2°45 | W27 |
| T 28 | 20 22 57 | 4°49'14 | 28°11 | 10° 6 | 28°41 | 7°35 | 1° 5 | 8° 4 | 14° 7 | 14°36 | 11°44 | 14° 4 | 13°22 | 25° 4 | 2°53 | T 28 |
| F 29 | 20 26 54 | 5°46'40 | 10 Ω 24 | 9°21 | 29°54 | 8°14 | 1°10 | 8°11 | 14° 6 | 14°35 | 11°45 | 13°50 | 13°19 | 25°11 | 3° 1 | F 29 |
| S 30 | 20 30 51 | 6°44'08 | 22°47 | 8°34 | 1 Mp 7 | 8°54 | 1°16 | 8°18 | 14° 4 | 14°34 | 11°46 | 13°37 | 13°16 | 25°17 | 3° 9 | S 30 |
| S 31 | 20 34 47 | 7 Ω 41'36 | 5 m)21 | 7 Ω 48 | 2 Mg 20 | 9933 | 1 M 22 | 8925 | 14 ×7 3 | 14 × 33 | 11 II 47 | 13 8 25 | 13 8 13 | 25 Ⅱ 24 | 3 m) 17 | S 31 |

Delta T = 42.97 sec

Greg. Calendar

AUGUST 1650 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | φ | ð | 4 | ħ | ᡟ | ¥ | Р | ß | ಬ | ţ | %٥ | Day |
|------|----------|------------------|-----------------|----------------|---------------|--------|---------------|--------|-----------------|----------------|-----------------|--------|----------------|-----------------|---------------|------|
| M 1 | 20 38 44 | 8 Ω 39'05 | 18 M) 5 | 7°R 2 | 3 m 33 | 109913 | 1 M 27 | 8933 | 14°R 2 | 14°R32 | 11 II 48 | 13°R16 | 13 8 10 | 25耳31 | 3 m 25 | M 1 |
| T 2 | 20 42 40 | 9°36'36 | 1 ♀ 2 | 6 Ω 18 | 4°46 | 10°52 | 1°33 | 8°40 | 14 × 7 1 | 14 × 32 | 11°49 | 138 9 | 13° 6 | 25°38 | 3°33 | T 2 |
| W 3 | 20 46 37 | 10°34'06 | 14°10 | 5°37 | 5°59 | 11°32 | 1°40 | 8°47 | 14° 0 | 14°31 | 11°49 | 13° 5 | 13° 3 | 25°44 | 3°41 | W 3 |
| T 4 | 20 50 33 | 11°31'38 | 27°33 | 4°58 | 7°12 | 12°11 | 1°46 | 8°54 | 13°59 | 14°30 | 11°50 | 13° 3 | 13° 0 | 25°51 | 3°49 | T 4 |
| F 5 | 20 54 30 | 12°29'11 | 11ML12 | 4°24 | 8°25 | 12°50 | 1°52 | 9° 1 | 13°58 | 14°29 | 11°51 | 13° 3 | 12°57 | 25°58 | 3°57 | F 5 |
| S 6 | 20 58 26 | 13°26'44 | 25° 8 | 3°54 | 9°38 | 13°29 | 1°59 | 9° 8 | 13°57 | 14°29 | 11°52 | 13° 3 | 12°54 | 26° 4 | 4° 5 | S 6 |
| S 7 | 21 2 23 | 14°24'19 | 9 ₹ 22 | 3°29 | 10°51 | 14° 8 | 2° 5 | 9°15 | 13°57 | 14°28 | 11°52 | 13° 2 | 12°50 | 26°11 | 4°13 | S 7 |
| M 8 | 21 6 20 | 15°21'54 | 23°52 | 3°11 | 12° 4 | 14°47 | 2°12 | 9°22 | 13°56 | 14°28 | 11°53 | 12°58 | 12°47 | 26°18 | 4°22 | M 8 |
| T 9 | 21 10 16 | 16°19'31 | 8 궁 34 | 2°59 | 13°17 | 15°27 | 2°19 | 9°28 | 13°55 | 14°27 | 11°54 | 12°52 | 12°44 | 26°24 | 4°30 | T 9 |
| W10 | 21 14 13 | 17°17'08 | 23°24 | 2°D54 | 14°30 | 16° 6 | 2°26 | 9°35 | 13°54 | 14°26 | 11°55 | 12°44 | 12°41 | 26°31 | 4°38 | W10 |
| T 11 | 21 18 9 | 18°14'47 | 8≈13 | 2°55 | 15°43 | 16°44 | 2°34 | 9°42 | 13°54 | 14°26 | 11°55 | 12°33 | 12°38 | 26°38 | 4°46 | T 11 |
| F 12 | 21 22 6 | 19°12'27 | 22°53 | 3° 4 | 16°56 | 17°23 | 2°41 | 9°49 | 13°53 | 14°25 | 11°56 | 12°22 | 12°35 | 26°44 | 4°55 | F 12 |
| S 13 | 21 26 2 | 20°10'08 | 7 ₩ 15 | 3°21 | 18° 8 | 18° 2 | 2°48 | 9°55 | 13°53 | 14°25 | 11°57 | 12°11 | 12°31 | 26°51 | 5° 3 | S 13 |
| S 14 | 21 29 59 | 21° 7'50 | 21°15 | 3°45 | 19°21 | 18°41 | 2°56 | 10° 2 | 13°52 | 14°25 | 11°57 | 12° 2 | 12°28 | 26°58 | 5°12 | S 14 |
| M15 | 21 33 55 | 22° 5'34 | 4 Υ 48 | 4°16 | 20°34 | 19°20 | 3° 4 | 10° 8 | 13°52 | 14°24 | 11°58 | 11°55 | 12°25 | 27° 4 | 5°20 | M15 |
| T 16 | 21 37 52 | 23° 3'20 | 17°55 | 4°55 | 21°47 | 19°59 | 3°12 | 10°15 | 13°51 | 14°24 | 11°58 | 11°51 | 12°22 | 27°11 | 5°28 | T 16 |
| W17 | 21 41 49 | 24° 1'07 | 0 8 37 | 5°41 | 22°59 | 20°37 | 3°20 | 10°21 | 13°51 | 14°24 | 11°59 | 11°49 | 12°19 | 27°18 | 5°37 | W17 |
| T 18 | 21 45 45 | 24°58'56 | 12°59 | 6°35 | 24°12 | 21°16 | 3°28 | 10°28 | 13°51 | 14°23 | 11°59 | 11°D48 | 12°16 | 27°24 | 5°45 | T 18 |
| F 19 | 21 49 42 | 25°56'47 | 25° 4 | 7°35 | 25°25 | 21°54 | 3°36 | 10°34 | 13°51 | 14°23 | 12° 0 | 11°R49 | 12°12 | 27°31 | 5°54 | F 19 |
| S 20 | 21 53 38 | 26°54'40 | 6耳59 | 8°42 | 26°38 | 22°33 | 3°44 | 10°40 | 13°50 | 14°23 | 12° 0 | 11°48 | 12° 9 | 27°38 | 6° 2 | S 20 |
| S 21 | 21 57 35 | 27°52'34 | 18°49 | 9°55 | 27°50 | 23°11 | 3°53 | 10°46 | 13°50 | 14°23 | 12° 1 | 11°46 | 12° 6 | 27°45 | 6°11 | S 21 |
| M22 | 22 1 31 | 28°50'31 | 0ഇ39 | 11°14 | 29° 3 | 23°50 | 4° 1 | 10°52 | 13°50 | 14°22 | 12° 1 | 11°42 | 12° 3 | 27°51 | 6°19 | M22 |
| T 23 | 22 5 28 | 29°48'29 | 12°33 | 12°38 | 0 ჲ 15 | 24°28 | 4°10 | 10°58 | 13°D50 | 14°22 | 12° 2 | 11°35 | 12° 0 | 27°58 | 6°28 | T 23 |
| W24 | 22 9 24 | 0 M 46'29 | 24°35 | 14° 7 | 1°28 | 25° 7 | 4°19 | 11° 4 | 13°50 | 14°22 | 12° 2 | 11°26 | 11°56 | 28° 5 | 6°36 | W24 |
| T 25 | 22 13 21 | 1°44'30 | 6 Ω 48 | 15°42 | 2°41 | 25°45 | 4°28 | 11°10 | 13°50 | 14°22 | 12° 2 | 11°15 | 11°53 | 28°11 | 6°45 | T 25 |
| F 26 | 22 17 18 | 2°42'34 | 19°14 | 17°20 | 3°53 | 26°23 | 4°37 | 11°16 | 13°50 | 14°D22 | 12° 3 | 11° 3 | 11°50 | 28°18 | 6°53 | F 26 |
| S 27 | 22 21 14 | 3°40'39 | 1 m) 53 | 19° 2 | 5° 6 | 27° 1 | 4°46 | 11°22 | 13°51 | 14°22 | 12° 3 | 10°51 | 11°47 | 28°25 | 7° 2 | S 27 |
| S 28 | 22 25 11 | 4°38'45 | 14°44 | 20°47 | 6°18 | 27°40 | 4°55 | 11°28 | 13°51 | 14°22 | 12° 3 | 10°40 | 11°44 | 28°31 | 7°10 | S 28 |
| M29 | 22 29 7 | 5°36'54 | 27°49 | 22°34 | 7°30 | 28°18 | 5° 5 | 11°34 | 13°51 | 14°22 | 12° 4 | 10°32 | 11°41 | 28°38 | 7°19 | M29 |
| T 30 | 22 33 4 | 6°35'04 | 11 ♀ 5 | 24°24 | 8°43 | 28°56 | 5°14 | 11°39 | 13°52 | 14°22 | 12° 4 | 10°26 | 11°37 | 28°45 | 7°28 | T 30 |
| W31 | 22 37 0 | 7 m 33'15 | 24 ≏ 31 | 26 Ω 16 | 9 ≙ 55 | 29934 | 5 M 24 | 119945 | 13 × 752 | 14 × 22 | 12 Ⅱ 4 | 10822 | 11834 | 28 I I51 | 7 m 36 | W31 |

Delta T = 42.91 sec

SEPTEMBER 1650 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)/(| ¥ | В | n | ß | ţ | o k | Day |
|------|----------|------------------|-----------------|----------------|----------------|----------------|----------------|--------|-----------------|----------------|-----------------|---------------|---------------|-------|-----------------|------|
| T 1 | 22 40 57 | 8 Mg 31'28 | 8M 8 | 28⋒ 9 | 11 ♀ 8 | 0Ω12 | 5 M .34 | 119550 | 13 × 752 | 14 × 23 | 12 II 5 | 10°D21 | 11831 | 28耳58 | 7 m 45 | T 1 |
| F 2 | 22 44 53 | 9°29'43 | 21°55 | 0 m y 3 | 12°20 | 0°50 | 5°43 | 11°56 | 13°53 | 14°23 | 12° 5 | 10822 | 11°28 | 29° 5 | 7°53 | F 2 |
| S 3 | 22 48 50 | 10°27'59 | 5 ₹ 51 | 1°58 | 13°32 | 1°27 | 5°53 | 12° 1 | 13°53 | 14°23 | 12° 5 | 10°R22 | 11°25 | 29°11 | 8° 2 | S 3 |
| S 4 | 22 52 47 | 11°26'17 | 19°58 | 3°53 | 14°44 | 2° 5 | 6° 3 | 12° 6 | 13°54 | 14°23 | 12° 5 | 10°22 | 11°22 | 29°18 | 8°10 | S 4 |
| M 5 | 22 56 43 | 12°24'36 | 4 궁 14 | 5°48 | 15°57 | 2°43 | 6°13 | 12°11 | 13°55 | 14°24 | 12° 5 | 10°20 | 11°18 | 29°25 | 8°19 | M 5 |
| T 6 | 23 0 40 | 13°22'57 | 18°36 | 7°43 | 17° 9 | 3°21 | 6°23 | 12°16 | 13°55 | 14°24 | 12° 5 | 10°16 | 11°15 | 29°31 | 8°28 | T 6 |
| W 7 | 23 4 36 | 14°21'19 | 3≈ 1 | 9°38 | 18°21 | 3°58 | 6°34 | 12°21 | 13°56 | 14°24 | 12° 6 | 10° 9 | 11°12 | 29°38 | 8°36 | W 7 |
| T 8 | 23 8 33 | 15°19'43 | 17°24 | 11°32 | 19°33 | 4°36 | 6°44 | 12°26 | 13°57 | 14°25 | 12° 6 | 10° 1 | 11° 9 | 29°45 | 8°45 | T 8 |
| F 9 | 23 12 29 | 16°18'09 | 1) 39 | 13°26 | 20°45 | 5°13 | 6°54 | 12°31 | 13°58 | 14°25 | 12° 6 | 9°53 | 11° 6 | 29°52 | 8°53 | F 9 |
| S 10 | 23 16 26 | 17°16'36 | 15°41 | 15°19 | 21°57 | 5°51 | 7° 5 | 12°36 | 13°59 | 14°26 | 12° 6 | 9°44 | 11° 2 | 29°58 | 9° 2 | S 10 |
| S 11 | 23 20 22 | 18°15'06 | 29°26 | 17°11 | 23° 9 | 6°28 | 7°15 | 12°41 | 14° 0 | 14°26 | 12°R 6 | 9°37 | 10°59 | 099 5 | 9°10 | S 11 |
| M12 | 23 24 19 | 19°13'37 | 12 Y 49 | 19° 3 | 24°21 | 7° 6 | 7°26 | 12°45 | 14° 1 | 14°27 | 12° 6 | 9°32 | 10°56 | 0°12 | 9°19 | M12 |
| T 13 | 23 28 16 | 20°12'10 | 25°50 | 20°53 | 25°33 | 7°43 | 7°37 | 12°50 | 14° 2 | 14°27 | 12° 6 | 9°29 | 10°53 | 0°18 | 9°27 | T 13 |
| W14 | 23 32 12 | 21°10'46 | 8 8 30 | 22°43 | 26°45 | 8°20 | 7°48 | 12°54 | 14° 3 | 14°28 | 12° 6 | 9°D28 | 10°50 | 0°25 | 9°36 | W14 |
| T 15 | 23 36 9 | 22° 9'23 | 20°52 | 24°31 | 27°57 | 8°58 | 7°59 | 12°59 | 14° 4 | 14°28 | 12° 6 | 9°28 | 10°47 | 0°32 | 9°44 | T 15 |
| F 16 | 23 40 5 | 23° 8'03 | 2 II 59 | 26°19 | 29° 9 | 9°35 | 8°10 | 13° 3 | 14° 5 | 14°29 | 12° 6 | 9°30 | 10°43 | 0°38 | 9°53 | F 16 |
| S 17 | 23 44 2 | 24° 6'46 | 14°55 | 28° 5 | 0 M 21 | 10°12 | 8°21 | 13° 7 | 14° 6 | 14°30 | 12° 5 | 9°31 | 10°40 | 0°45 | 10° 1 | S 17 |
| S 18 | 23 47 58 | 25° 5'30 | 26°46 | 29°51 | 1°32 | 10°49 | 8°32 | 13°11 | 14° 8 | 14°30 | 12° 5 | 9°R31 | 10°37 | 0°52 | 10°10 | S 18 |
| M19 | 23 51 55 | 26° 4'17 | 8938 | 1 ≏ 36 | 2°44 | 11°26 | 8°43 | 13°15 | 14° 9 | 14°31 | 12° 5 | 9°30 | 10°34 | 0°58 | 10°18 | M19 |
| T 20 | 23 55 51 | 27° 3'06 | 20°34 | 3°20 | 3°56 | 12° 3 | 8°55 | 13°19 | 14°10 | 14°32 | 12° 5 | 9°28 | 10°31 | 1° 5 | 10°27 | T 20 |
| W21 | 23 59 48 | 28° 1'57 | 2 Ω 39 | 5° 2 | 5° 7 | 12°40 | 9° 6 | 13°23 | 14°12 | 14°33 | 12° 5 | 9°23 | 10°27 | 1°12 | 10°35 | W21 |
| T 22 | 0 3 45 | 29° 0'51 | 14°58 | 6°44 | 6°19 | 13°17 | 9°17 | 13°27 | 14°13 | 14°34 | 12° 5 | 9°17 | 10°24 | 1°19 | 10°43 | T 22 |
| F 23 | 0 741 | 29°59'46 | 27°32 | 8°25 | 7°30 | 13°54 | 9°29 | 13°30 | 14°15 | 14°35 | 12° 4 | 9°10 | 10°21 | 1°25 | 10°52 | F 23 |
| S 24 | 0 11 38 | 0 ≏ 58'44 | 10 m)24 | 10° 5 | 8°42 | 14°31 | 9°41 | 13°34 | 14°16 | 14°35 | 12° 4 | 9° 4 | 10°18 | 1°32 | 11° 0 | S 24 |
| S 25 | 0 15 34 | 1°57'44 | 23°33 | 11°44 | 9°53 | 15° 7 | 9°52 | 13°37 | 14°18 | 14°36 | 12° 4 | 8°57 | 10°15 | 1°39 | 11°8 | S 25 |
| M26 | 0 19 31 | 2°56'46 | 6 ₽ 59 | 13°23 | 11° 5 | 15°44 | 10° 4 | 13°41 | 14°20 | 14°37 | 12° 3 | 8°53 | 10°12 | 1°45 | 11°16 | M26 |
| T 27 | 0 23 27 | 3°55'50 | 20°39 | 15° 0 | 12°16 | 16°21 | 10°16 | 13°44 | 14°21 | 14°38 | 12° 3 | 8°49 | 10° 8 | 1°52 | 11°25 | T 27 |
| W28 | 0 27 24 | 4°54'56 | 4 M .31 | 16°37 | 13°28 | 16°57 | 10°28 | 13°47 | 14°23 | 14°39 | 12° 3 | 8°D48 | 10° 5 | 1°59 | 11°33 | W28 |
| T 29 | 0 31 20 | 5°54'04 | 18°32 | 18°12 | 14°39 | 17°34 | 10°39 | 13°50 | 14°25 | 14°40 | 12° 2 | 8°48 | 10° 2 | 2° 5 | 11°41 | T 29 |
| F 30 | 0 35 17 | 6 ≏ 53'14 | 2 , ₹38 | 19 ≙ 47 | 15 M 50 | 18 Ω 10 | 10 M 51 | 13953 | 14 渘 27 | 14 ₹ 42 | 12 I I 2 | 8 8 50 | 9 8 59 | 29512 | 11 M)49 | F 30 |

Delta T = 42.85 sec

Greg. Calendar

| OCTOBER 1650 GC | 00:00 UT |
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| Day | Sid.t | \odot | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | Р | v | v | Ç | Š | Day |
|------|---------|-------------------|-----------------|----------------|---------------|----------------|----------------|--------|-----------------|-----------------|-----------------|---------------|---------------|------|-----------------|------|
| S 1 | 0 39 13 | 7 ≏ 52'25 | 16 ×7 48 | 21 ≏ 22 | 17 M 1 | 18 Ω 47 | 11 M 4 | 139556 | 14 × 729 | 14 ×7 43 | 12°R 2 | 8 8 51 | 9 8 56 | 2919 | 11 M 57 | S 1 |
| S 2 | 0 43 10 | 8°51'39 | 1る 0 | 22°55 | 18°12 | 19°23 | 11°16 | 13°59 | 14°31 | 14°44 | 12 I 1 | 8°52 | 9°53 | 2°25 | 12° 5 | S 2 |
| M 3 | 0 47 7 | 9°50'54 | 15°11 | 24°28 | 19°24 | 19°59 | 11°28 | 14° 1 | 14°33 | 14°45 | 12° 1 | 8°R52 | 9°49 | 2°32 | 12°13 | M 3 |
| T 4 | 0 51 3 | 10°50'11 | 29°19 | 25°59 | 20°35 | 20°35 | 11°40 | 14° 4 | 14°35 | 14°46 | 12° 0 | 8°51 | 9°46 | 2°39 | 12°21 | T 4 |
| W 5 | 0 55 0 | 11°49'30 | 13 ≈ 23 | 27°30 | 21°46 | 21°11 | 11°52 | 14° 6 | 14°37 | 14°47 | 12° 0 | 8°49 | 9°43 | 2°46 | 12°29 | W 5 |
| T 6 | 0 58 56 | 12°48'50 | 27°19 | 29° 1 | 22°56 | 21°48 | 12° 5 | 14° 9 | 14°39 | 14°49 | 11°59 | 8°45 | 9°40 | 2°52 | 12°37 | T 6 |
| F 7 | 1 2 53 | 13°48'13 | 11 米 7 | 0 M .30 | 24° 7 | 22°24 | 12°17 | 14°11 | 14°41 | 14°50 | 11°59 | 8°42 | 9°37 | 2°59 | 12°45 | F 7 |
| S 8 | 1 6 49 | 14°47'37 | 24°42 | 1°59 | 25°18 | 22°59 | 12°29 | 14°13 | 14°43 | 14°51 | 11°58 | 8°38 | 9°33 | 3° 6 | 12°53 | S 8 |
| S 9 | 1 10 46 | 15°47'03 | 8 Y 2 | 3°27 | 26°29 | 23°35 | 12°42 | 14°15 | 14°46 | 14°53 | 11°58 | 8°35 | 9°30 | 3°12 | 13° 1 | S 9 |
| M10 | 1 14 42 | 16°46'31 | 21° 7 | 4°54 | 27°39 | 24°11 | 12°54 | 14°17 | 14°48 | 14°54 | 11°57 | 8°33 | 9°27 | 3°19 | 13° 9 | M10 |
| T 11 | 1 18 39 | 17°46'01 | 3 8 55 | 6°21 | 28°50 | 24°47 | 13° 7 | 14°19 | 14°50 | 14°55 | 11°57 | 8°D32 | 9°24 | 3°26 | 13°16 | T 11 |
| W12 | 1 22 36 | 18°45'34 | 16°27 | 7°47 | 0 才 0 | 25°23 | 13°19 | 14°20 | 14°53 | 14°57 | 11°56 | 8°32 | 9°21 | 3°32 | 13°24 | W12 |
| T 13 | 1 26 32 | 19°45'08 | 28°44 | 9°11 | 1°11 | 25°58 | 13°32 | 14°22 | 14°55 | 14°58 | 11°55 | 8°33 | 9°18 | 3°39 | 13°32 | T 13 |
| F 14 | 1 30 29 | 20°44'45 | 10 Ⅱ 50 | 10°35 | 2°21 | 26°34 | 13°45 | 14°23 | 14°58 | 15° 0 | 11°55 | 8°34 | 9°14 | 3°46 | 13°39 | F 14 |
| S 15 | 1 34 25 | 21°44'24 | 22°46 | 11°59 | 3°32 | 27° 9 | 13°57 | 14°25 | 15° 0 | 15° 1 | 11°54 | 8°36 | 9°11 | 3°53 | 13°47 | S 15 |
| S 16 | 1 38 22 | 22°44'05 | 4938 | 13°21 | 4°42 | 27°45 | 14°10 | 14°26 | 15° 3 | 15° 3 | 11°53 | 8°37 | 9° 8 | 3°59 | 13°54 | S 16 |
| M17 | 1 42 18 | 23°43'49 | 16°29 | 14°42 | 5°52 | 28°20 | 14°23 | 14°27 | 15° 5 | 15° 4 | 11°53 | 8°38 | 9° 5 | 4° 6 | 14° 2 | M17 |
| T 18 | 1 46 15 | 24°43'35 | 28°25 | 16° 2 | 7° 2 | 28°56 | 14°36 | 14°28 | 15° 8 | 15° 6 | 11°52 | 8°R38 | 9° 2 | 4°13 | 14° 9 | T 18 |
| W19 | 1 50 11 | 25°43'23 | 10€30 | 17°21 | 8°12 | 29°31 | 14°49 | 14°29 | 15°11 | 15° 8 | 11°51 | 8°38 | 8°59 | 4°19 | 14°17 | W19 |
| T 20 | 1 54 8 | 26°43'13 | 22°48 | 18°39 | 9°22 | 0 Mp 6 | 15° 2 | 14°30 | 15°13 | 15° 9 | 11°50 | 8°36 | 8°55 | 4°26 | 14°24 | T 20 |
| F 21 | 1 58 5 | 27°43'06 | 5 m/25 | 19°56 | 10°32 | 0°41 | 15°15 | 14°31 | 15°16 | 15°11 | 11°50 | 8°35 | 8°52 | 4°33 | 14°31 | F 21 |
| S 22 | 2 2 1 | 28°43'00 | 18°22 | 21°11 | 11°42 | 1°16 | 15°28 | 14°31 | 15°19 | 15°13 | 11°49 | 8°34 | 8°49 | 4°39 | 14°38 | S 22 |
| S 23 | 2 5 58 | 29°42'57 | 1 ≏ 41 | 22°25 | 12°51 | 1°51 | 15°40 | 14°32 | 15°21 | 15°14 | 11°48 | 8°32 | 8°46 | 4°46 | 14°45 | S 23 |
| M24 | 2 9 54 | 0 M .42'56 | 15°22 | 23°37 | 14° 1 | 2°26 | 15°54 | 14°32 | 15°24 | 15°16 | 11°47 | 8°32 | 8°43 | 4°53 | 14°52 | M24 |
| T 25 | 2 13 51 | 1°42'57 | 29°23 | 24°48 | 15°10 | 3° 1 | 16° 7 | 14°32 | 15°27 | 15°18 | 11°46 | 8°31 | 8°39 | 4°59 | 14°59 | T 25 |
| W26 | 2 17 47 | 2°42'59 | 13M41 | 25°56 | 16°20 | 3°36 | 16°20 | 14°33 | 15°30 | 15°20 | 11°46 | 8°D31 | 8°36 | 5° 6 | 15° 6 | W26 |
| T 27 | 2 21 44 | 3°43'04 | 28°10 | 27° 2 | 17°29 | 4°10 | 16°33 | 14°R33 | 15°33 | 15°21 | 11°45 | 8°31 | 8°33 | 5°13 | 15°13 | T 27 |
| F 28 | 2 25 40 | 4°43'11 | 12×745 | 28° 5 | 18°38 | 4°45 | 16°46 | 14°33 | 15°36 | 15°23 | 11°44 | 8°32 | 8°30 | 5°20 | 15°20 | F 28 |
| S 29 | 2 29 37 | 5°43'19 | 27°19 | 29° 6 | 19°47 | 5°19 | 16°59 | 14°32 | 15°39 | 15°25 | 11°43 | 8°32 | 8°27 | 5°26 | 15°27 | S 29 |
| S 30 | 2 33 34 | 6°43'29 | 11 ろ 48 | 0 才 4 | 20°56 | 5°54 | 17°12 | 14°32 | 15°42 | 15°27 | 11°42 | 8°32 | 8°24 | 5°33 | 15°33 | S 30 |
| M31 | 2 37 30 | 7 M 43'40 | 26 궁 7 | 0 , ₹58 | 22 才 5 | 6Mp28 | 17 M 25 | 14932 | 15 ₹ 45 | 15 ₹ 29 | 11 II 41 | 8 8 32 | 8 8 20 | 5940 | 15 M y40 | M31 |

Delta T = 42.79 sec

NOVEMBER 1650 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)ұ(| ¥ | В | ß | S | ţ | Q K | Day |
|-------------|--------------------|--------------------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|---------------|---------------|--------------|-----------------|-------------|
| T 1 | 2 41 27 | 8M43'53 | 10≈14 | 1 ∡ 749 | 23 × 14 | 7 Mg 2 | 17 M 39 | 14°R31 | 15 ∡ 748 | 15 ₹ 31 | 11°R40 | 8 8 32 | 8 8 17 | 59346 | 15 M)46 | T 1 |
| W 2 | 2 45 23 | 9°44'07 | 24° 7 | 2°35 | 24°23 | 7°36 | 17°52 | 14930 | 15°51 | 15°32 | 11 Ⅱ 39 | 8°32 | 8°14 | 5°53 | 15°53 | W 2 |
| T 3 | 2 49 20 | 10°44'23 | 7) €45 | 3°16 | 25°31 | 8°10 | 18° 5 | 14°30 | 15°54 | 15°34 | 11°38 | 8°32 | 8°11 | 6° 0 | 15°59 | T 3 |
| F 4 S 5 | 2 53 16 2 57 13 | 11°44'40 12°44'59 | 21° 8 4 Y 18 | 3°51 4°21 | 26°40 27°48 | 8°44 9°18 | 18°18 18°32 | 14°29 14°28 | 15°57 16° 1 | 15°36 15°38 | 11°37 11°36 | 8°33 8°33 | 8° 8 8° 4 | 6° 7 6°13 | 16° 6 16°12 | F 4 S 5 |
| | | | | | | | | | - | | | | | | | |
| S 6 | 3 1 9 | 13°45'19 | 17°13 | 4°44 | 28°56 | 9°52 | 18°45 | 14°27 | 16° 4 | 15°40 | 11°35 | 8°34 | 8° 1 | 6°20 | 16°18 | S 6 |
| M 7 | 3 5 6 | 14°45'41 | 29°56 | 5° 0 | 0중 4 | 10°26 | 18°58 | 14°25 | 16° 7 | 15°42 15°44 | 11°34 | 8°34 | 7°58 | 6°27 | 16°24 | M 7 |
| T 8 W 9 | 3 9 3 3 12 59 | 15°46'04 16°46'29 | 12 8 27 24°46 | 5°R 7 5° 6 | 1°12 2°19 | 10°59 11°33 | 19°11 19°25 | 14°24 14°23 | 16°10 16°14 | 15°44 15°46 | 11°33 11°32 | 8°R34 8°34 | 7°55 7°52 | 6°33 6°40 | 16°30 16°36 | T 8 W 9 |
| T 10 | 3 16 56 | 10 46 29 17°46'56 | 6 Ⅱ 55 | 4°55 | 3°27 | 12° 6 | 19°23 | 14°21 | 16°17 | 15°48 | 11°31 | 8°33 | 7°49 | 6°47 | 16°42 | T 10 |
| F 11 | 3 20 52 | 18°47'24 | 18°56 | 4°34 | 4°34 | 12°40 | 19°51 | 14°20 | 16°20 | 15°50 | 11°30 | 8°32 | 7°45 | 6°53 | 16°48 | F 11 |
| S 12 | 3 24 49 | 19°47'55 | 0951 | 4° 3 | 5°41 | 13°13 | 20° 5 | 14°18 | 16°24 | 15°52 | 11°29 | 8°30 | 7°42 | 7° 0 | 16°53 | S 12 |
| S 13 | 3 28 45 | 20°48'27 | 12°42 | 3°22 | 6°48 | 13°46 | 20°18 | 14°16 | 16°27 | 15°55 | 11°28 | 8°28 | 7°39 | 7° 7 | 16°59 | S 13 |
| M14 | 3 32 42 | 21°49'00 | 24°33 | 2°30 | 7°55 | 14°19 | 20°31 | 14°14 | 16°30 | 15°57 | 11°27 | 8°26 | 7°36 | 7°14 | 17° 4 | M14 |
| T 15 | 3 36 38 | 22°49'36 | 6Ω 27 | 1°29 | 9° 2 | 14°52 | 20°45 | 14°12 | 16°34 | 15°59 | 11°26 | 8°25 | 7°33 | 7°20 | 17°10 | T 15 |
| W16 | 3 40 35 | 23°50'13 | 18°30 | 0°20 | 10° 8 | 15°25 | 20°58 | 14°10 | 16°37 | 16° 1 | 11°25 | 8°D24 | 7°30 | 7°27 | 17°15 | W16 |
| T 17 | 3 44 32 | 24°50'52 | 0 m 45 | 29M 4 | 11°14 | 15°58 | 21°11 | 14° 8 | 16°41 | 16° 3 | 11°24 | 8°24 | 7°26 | 7°34 | 17°20 | T 17 |
| F 18 | 3 48 28 | 25°51'32 | 13°16 | 27°44 | 12°20 | 16°31 | 21°25 | 14° 5 | 16°44 | 16° 5 | 11°23 | 8°25 | 7°23 | 7°40 | 17°25 | F 18 |
| S 19 | 3 52 25 | 26°52'15 | 26°10 | 26°22 | 13°26 | 17° 3 | 21°38 | 14° 3 | 16°47 | 16° 7 | 11°21 | 8°26 | 7°20 | 7°47 | 17°31 | S 19 |
| S 20 | 3 56 21 | 27°52'58 | 9 ჲ 27 | 25° 1 | 14°32 | 17°36 | 21°51 | 14° 0 | 16°51 | 16°10 | 11°20 | 8°28 | 7°17 | 7°54 | 17°35 | S 20 |
| M21 | 4 0 18 | 28°53'44 | 23°11 | 23°43 | 15°37 | 18° 8 | 22° 5 | 13°57 | 16°54 | 16°12 | 11°19 | 8°29 | 7°14 | 8° 0 | 17°40 | M21 |
| T 22 W23 | 4 4 14 | 29°54'31 0 × 7'55'19 | 7 M 21 | 22°32 21°29 | 16°42 17°47 | 18°40 19°12 | 22°18 22°31 | 13°55 13°52 | 16°58 17° 1 | 16°14 16°16 | 11°18 11°17 | 8°R30 8°29 | 7°10 7° 7 | 8° 7 8°14 | 17°45 17°50 | T 22 W23 |
| T 24 | 4 8 11 4 12 7 | 1°56'09 | 21°55 6 ×7 46 | 20°36 | 17°47 18°52 | 19°12 19°44 | 22°44 | 13°52 13°49 | 17° 1 | 16°18 | 11°17 | 8°27 | 7° 4 | 8°14 8°21 | 17°54 | T 24 |
| F 25 | 4 16 4 | 2°57'00 | 21°47 | 19°54 | 19°56 | 20°16 | 22°58 | 13°46 | 17° 9 | 16°21 | 11°15 | 8°25 | 7° 1 | 8°27 | 17°59 | F 25 |
| S 26 | 4 20 1 | 3°57'52 | 6 정 49 | 19°24 | 21° 0 | 20°48 | 23°11 | 13°43 | 17°12 | 16°23 | 11°14 | 8°21 | 6°58 | 8°34 | 18° 3 | S 26 |
| S 27 | 4 23 57 | 4°58'45 | 21°43 | 19° 5 | 22° 4 | 21°19 | 23°24 | 13°39 | 17°16 | 16°25 | 11°12 | 8°17 | 6°55 | 8°41 | 18° 8 | S 27 |
| M28 | 4 27 54 | 5°59'39 | 6 ≈ 21 | 18°D57 | 23° 8 | 21°51 | 23°37 | 13°36 | 17°19 | 16°27 | 11°11 | 8°14 | 6°51 | 8°47 | 18°12 | M28 |
| T 29 | 4 31 50 | 7° 0'34 | 20°39 | 19° 0 | 24°11 | 22°22 | 23°50 | 13°33 | 17°23 | 16°29 | 11°10 | 8°12 | 6°48 | 8°54 | 18°16 | T 29 |
| W30 | 4 35 47 | 8 × 7 1'29 | 4) €34 | 19 M 12 | 25 ප 14 | 22 m 53 | 24 M 4 | 13929 | 17 × 727 | 16 ₮ 32 | 11 I 9 | 8°D11 | 6 8 45 | 999 1 | 18 m 20 | W30 |

Delta T = 42.73 sec

Greg. Calendar

| DECEMBER 1650 GC | 00:00 UT |
|------------------|----------|
| DECEMBER 1030 GC | 00:00 01 |

| Day | Sid.t | 0 | D | ğ | φ | ♂ [™] | 4 | ħ | ď | ¥ | Р | S. | ය | Ç | ٧٥ | Day |
|------|---------|-------------------|-----------------|-----------------|----------------|----------------|-----------------|--------|-----------------|-----------------|----------------|---------------|---------------|-------|-----------------|------|
| T 1 | 4 39 43 | 9 ⋌ ¹ 2'25 | 18 ℋ 7 | 19 M .34 | 26 궁 16 | 23 m 24 | 24 M .17 | 13°R26 | 17 × 30 | 16 ₮ 34 | 11°R 8 | 8811 | 6 8 42 | 995 8 | 18 M p24 | T 1 |
| F 2 | 4 43 40 | 10° 3'22 | 1 Υ 18 | 20° 5 | 27°19 | 23°55 | 24°30 | 139522 | 17°34 | 16°36 | 11 II 7 | 8°12 | 6°39 | 9°14 | 18°27 | F 2 |
| S 3 | 4 47 37 | 11° 4'20 | 14°10 | 20°42 | 28°20 | 24°26 | 24°43 | 13°18 | 17°37 | 16°38 | 11° 5 | 8°14 | 6°36 | 9°21 | 18°31 | S 3 |
| S 4 | 4 51 33 | 12° 5'18 | 26°47 | 21°27 | 29°22 | 24°57 | 24°56 | 13°14 | 17°41 | 16°41 | 11° 4 | 8°15 | 6°32 | 9°28 | 18°35 | S 4 |
| M 5 | 4 55 30 | 13° 6'17 | 9 8 12 | 22°17 | 0≈23 | 25°27 | 25° 9 | 13°10 | 17°45 | 16°43 | 11° 3 | 8°R16 | 6°29 | 9°34 | 18°38 | M 5 |
| T 6 | 4 59 26 | 14° 7'17 | 21°26 | 23°12 | 1°24 | 25°58 | 25°22 | 13° 6 | 17°48 | 16°45 | 11° 2 | 8°15 | 6°26 | 9°41 | 18°42 | T 6 |
| W 7 | 5 3 23 | 15° 8'17 | 3 Ⅲ 32 | 24°12 | 2°24 | 26°28 | 25°35 | 13° 2 | 17°52 | 16°47 | 11° 1 | 8°12 | 6°23 | 9°48 | 18°45 | W 7 |
| T 8 | 5 7 19 | 16° 9'18 | 15°32 | 25°16 | 3°24 | 26°58 | 25°48 | 12°58 | 17°56 | 16°50 | 11° 0 | 8° 7 | 6°20 | 9°55 | 18°48 | T 8 |
| F 9 | 5 11 16 | 17°10'20 | 27°27 | 26°23 | 4°24 | 27°28 | 26° 1 | 12°54 | 17°59 | 16°52 | 10°59 | 8° 1 | 6°16 | 10° 1 | 18°51 | F 9 |
| S 10 | 5 15 12 | 18°11'23 | 99520 | 27°33 | 5°23 | 27°57 | 26°14 | 12°50 | 18° 3 | 16°54 | 10°57 | 7°53 | 6°13 | 10° 8 | 18°54 | S 10 |
| S 11 | 5 19 9 | 19°12'27 | 21°11 | 28°46 | 6°21 | 28°27 | 26°27 | 12°46 | 18° 7 | 16°57 | 10°56 | 7°45 | 6°10 | 10°15 | 18°57 | S 11 |
| M12 | 5 23 6 | 20°13'31 | 3 Ω 3 | 0 √ 1 | 7°19 | 28°56 | 26°39 | 12°41 | 18°10 | 16°59 | 10°55 | 7°37 | 6° 7 | 10°21 | 18°59 | M12 |
| T 13 | 5 27 2 | 21°14'36 | 14°59 | 1°18 | 8°17 | 29°26 | 26°52 | 12°37 | 18°14 | 17° 1 | 10°54 | 7°30 | 6° 4 | 10°28 | 19° 2 | T 13 |
| W14 | 5 30 59 | 22°15'42 | 27° 0 | 2°37 | 9°14 | 29°55 | 27° 5 | 12°32 | 18°18 | 17° 3 | 10°53 | 7°24 | 6° 1 | 10°35 | 19° 4 | W14 |
| T 15 | 5 34 55 | 23°16'48 | 9 m 12 | 3°57 | 10°10 | 0 ≏ 24 | 27°18 | 12°28 | 18°21 | 17° 6 | 10°52 | 7°21 | 5°57 | 10°41 | 19° 7 | T 15 |
| F 16 | 5 38 52 | 24°17'56 | 21°39 | 5°19 | 11° 6 | 0°52 | 27°30 | 12°23 | 18°25 | 17° 8 | 10°51 | 7°D20 | 5°54 | 10°48 | 19° 9 | F 16 |
| S 17 | 5 42 48 | 25°19'04 | 4 ≏ 24 | 6°41 | 12° 1 | 1°21 | 27°43 | 12°19 | 18°28 | 17°10 | 10°49 | 7°20 | 5°51 | 10°55 | 19°11 | S 17 |
| S 18 | 5 46 45 | 26°20'13 | 17°33 | 8° 5 | 12°56 | 1°49 | 27°55 | 12°14 | 18°32 | 17°12 | 10°48 | 7°21 | 5°48 | 11° 2 | 19°13 | S 18 |
| M19 | 5 50 41 | 27°21'22 | 1 M 9 | 9°30 | 13°50 | 2°18 | 28° 8 | 12° 9 | 18°36 | 17°15 | 10°47 | 7°R22 | 5°45 | 11°8 | 19°15 | M19 |
| T 20 | 5 54 38 | 28°22'32 | 15°13 | 10°56 | 14°43 | 2°46 | 28°20 | 12° 5 | 18°39 | 17°17 | 10°46 | 7°22 | 5°42 | 11°15 | 19°17 | T 20 |
| W21 | 5 58 35 | 29°23'43 | 29°45 | 12°22 | 15°36 | 3°13 | 28°33 | 12° 0 | 18°43 | 17°19 | 10°45 | 7°20 | 5°38 | 11°22 | 19°18 | W21 |
| T 22 | 6 2 31 | 0 궁 24'54 | 14 ×7 41 | 13°49 | 16°28 | 3°41 | 28°45 | 11°55 | 18°46 | 17°21 | 10°44 | 7°16 | 5°35 | 11°28 | 19°20 | T 22 |
| F 23 | 6 6 28 | 1°26'06 | 29°55 | 15°17 | 17°19 | 4° 8 | 28°57 | 11°50 | 18°50 | 17°24 | 10°43 | 7° 9 | 5°32 | 11°35 | 19°21 | F 23 |
| S 24 | 6 10 24 | 2°27'18 | 15 る 14 | 16°45 | 18° 9 | 4°35 | 29°10 | 11°45 | 18°54 | 17°26 | 10°42 | 7° 0 | 5°29 | 11°42 | 19°22 | S 24 |
| S 25 | 6 14 21 | 3°28'30 | 0≈29 | 18°13 | 18°59 | 5° 2 | 29°22 | 11°41 | 18°57 | 17°28 | 10°41 | 6°51 | 5°26 | 11°49 | 19°24 | S 25 |
| M26 | 6 18 17 | 4°29'42 | 15°28 | 19°43 | 19°48 | 5°29 | 29°34 | 11°36 | 19° 1 | 17°30 | 10°40 | 6°43 | 5°22 | 11°55 | 19°25 | M26 |
| T 27 | 6 22 14 | 5°30'53 | 0) 3 | 21°12 | 20°36 | 5°56 | 29°46 | 11°31 | 19° 4 | 17°32 | 10°39 | 6°36 | 5°19 | 12° 2 | 19°25 | T 27 |
| W28 | 6 26 11 | 6°32'05 | 14°10 | 22°42 | 21°23 | 6°22 | 29°58 | 11°26 | 19°8 | 17°35 | 10°38 | 6°31 | 5°16 | 12° 9 | 19°26 | W28 |
| T 29 | 6 30 7 | 7°33'16 | 27°49 | 24°13 | 22° 9 | 6°48 | 0 ₮ 10 | 11°21 | 19°11 | 17°37 | 10°37 | 6°29 | 5°13 | 12°15 | 19°27 | T 29 |
| F 30 | 6 34 4 | 8°34'27 | 11 Y 0 | 25°44 | 22°54 | 7°14 | 0°22 | 11°16 | 19°15 | 17°39 | 10°36 | 6°D28 | 5°10 | 12°22 | 19°27 | F 30 |
| S 31 | 6 38 0 | 9 ට 35'37 | 23 Y 48 | 27 ∡ 15 | 23≈38 | 7 ₾ 39 | 0 , ₹34 | 119911 | 19 ,7 18 | 17 √ 141 | 10耳35 | 6 8 29 | 5 2 7 | 12529 | 19 m 28 | S 31 |

Delta T = 42.67 sec

JANUARY 1651 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | Ŷ | ♂ | 4 | ħ |)∤(| ¥ | Р | ß | ದಿ | ţ | , k | Day |
|------|---------|-------------------|----------------|-----------------|---------------|----------------|----------------|---------------|----------------|-----------------|----------------|---------------|---------------|-------|----------------|------|
| S 1 | 6 41 57 | 10 ට 36'47 | 6 8 16 | 28 .7 47 | 24≈21 | 8 º 4 | 0 ∡ 745 | 11°R 6 | 19 × 22 | 17 .7 43 | 10°R34 | 6°R29 | 5 8 3 | 12936 | 19 m 28 | S 1 |
| M 2 | 6 45 53 | 11°37'56 | 18°30 | 0 궁 19 | 25° 2 | 8°29 | 0°57 | 1199 1 | 19°25 | 17°45 | 10耳33 | 6 8 29 | 5° 0 | 12°42 | 19°28 | M 2 |
| T 3 | 6 49 50 | 12°39'06 | 0 Ⅲ 34 | 1°51 | 25°43 | 8°54 | 1° 9 | 10°56 | 19°29 | 17°47 | 10°32 | 6°26 | 4°57 | 12°49 | 19°R28 | T 3 |
| W 4 | 6 53 46 | 13°40'15 | 12°31 | 3°24 | 26°22 | 9°19 | 1°20 | 10°51 | 19°32 | 17°49 | 10°31 | 6°20 | 4°54 | 12°56 | 19°28 | W 4 |
| T 5 | 6 57 43 | 14°41'23 | 24°24 | 4°58 | 27° 0 | 9°43 | 1°32 | 10°46 | 19°36 | 17°52 | 10°30 | 6°11 | 4°51 | 13° 2 | 19°28 | T 5 |
| F 6 | 7 1 40 | 15°42'31 | 69916 | 6°32 | 27°37 | 10° 7 | 1°43 | 10°41 | 19°39 | 17°54 | 10°29 | 6° 0 | 4°48 | 13° 9 | 19°28 | F 6 |
| S 7 | 7 5 36 | 16°43'39 | 18° 7 | 8° 6 | 28°12 | 10°31 | 1°54 | 10°36 | 19°42 | 17°56 | 10°28 | 5°47 | 4°44 | 13°16 | 19°27 | S 7 |
| S 8 | 7 9 33 | 17°44'46 | 0 Ω 1 | 9°40 | 28°46 | 10°54 | 2° 5 | 10°31 | 19°46 | 17°58 | 10°27 | 5°33 | 4°41 | 13°23 | 19°27 | S 8 |
| M 9 | 7 13 29 | 18°45'53 | 11°57 | 11°16 | 29°18 | 11°17 | 2°17 | 10°26 | 19°49 | 18° 0 | 10°26 | 5°19 | 4°38 | 13°29 | 19°26 | M 9 |
| T 10 | 7 17 26 | 19°47'00 | 23°58 | 12°51 | 29°49 | 11°40 | 2°28 | 10°22 | 19°52 | 18° 2 | 10°25 | 5° 6 | 4°35 | 13°36 | 19°26 | T 10 |
| W11 | 7 21 22 | 20°48'06 | 6Mp 5 | 14°27 | 0 ∺ 18 | 12° 3 | 2°39 | 10°17 | 19°55 | 18° 4 | 10°24 | 4°56 | 4°32 | 13°43 | 19°25 | W11 |
| T 12 | 7 25 19 | 21°49'12 | 18°20 | 16° 4 | 0°46 | 12°25 | 2°50 | 10°12 | 19°59 | 18° 6 | 10°24 | 4°49 | 4°28 | 13°49 | 19°24 | T 12 |
| F 13 | 7 29 15 | 22°50'18 | 0 ჲ 47 | 17°41 | 1°12 | 12°47 | 3° 0 | 10° 7 | 20° 2 | 18° 8 | 10°23 | 4°45 | 4°25 | 13°56 | 19°23 | F 13 |
| S 14 | 7 33 12 | 23°51'23 | 13°29 | 19°19 | 1°36 | 13° 8 | 3°11 | 10° 2 | 20° 5 | 18°10 | 10°22 | 4°43 | 4°22 | 14° 3 | 19°21 | S 14 |
| S 15 | 7 37 9 | 24°52'28 | 26°31 | 20°57 | 1°58 | 13°29 | 3°22 | 9°58 | 20° 8 | 18°11 | 10°21 | 4°42 | 4°19 | 14°10 | 19°20 | S 15 |
| M16 | 7 41 5 | 25°53'32 | 9 M .56 | 22°36 | 2°18 | 13°50 | 3°32 | 9°53 | 20°11 | 18°13 | 10°20 | 4°42 | 4°16 | 14°16 | 19°19 | M16 |
| T 17 | 7 45 2 | 26°54'36 | 23°47 | 24°16 | 2°36 | 14°11 | 3°43 | 9°48 | 20°15 | 18°15 | 10°20 | 4°41 | 4°13 | 14°23 | 19°17 | T 17 |
| W18 | 7 48 58 | 27°55'40 | 8 ₮ 6 | 25°56 | 2°53 | 14°31 | 3°53 | 9°44 | 20°18 | 18°17 | 10°19 | 4°38 | 4° 9 | 14°30 | 19°15 | W18 |
| T 19 | 7 52 55 | 28°56'43 | 2 <u>2</u> °50 | 27°36 | 3° 7 | 14°51 | 4° 3 | 9°39 | 20°21 | 18°19 | 10°18 | 4°32 | 4° 6 | 14°36 | 19°13 | T 19 |
| F 20 | 7 56 51 | 29°57'46 | 7 궁 55 | 29°17 | 3°19 | 15°10 | 4°13 | 9°35 | 20°24 | 18°21 | 10°18 | 4°24 | 4° 3 | 14°43 | 19°12 | F 20 |
| S 21 | 8 0 48 | 0≈58'48 | 23°12 | 0≈59 | 3°28 | 15°29 | 4°23 | 9°30 | 20°27 | 18°23 | 10°17 | 4°13 | 4° 0 | 14°50 | 19°10 | S 21 |
| S 22 | 8 4 44 | 1°59'49 | 8≈30 | 2°42 | 3°36 | 15°48 | 4°33 | 9°26 | 20°30 | 18°24 | 10°16 | 4° 1 | 3°57 | 14°57 | 19° 7 | S 22 |
| M23 | 8 8 41 | 3° 0'49 | 23°37 | 4°25 | 3°41 | 16° 6 | 4°43 | 9°21 | 20°33 | 18°26 | 10°16 | 3°49 | 3°54 | 15° 3 | 19° 5 | M23 |
| T 24 | 8 12 38 | 4° 1'48 | 8 米 24 | 6° 9 | 3°44 | 16°24 | 4°53 | 9°17 | 20°36 | 18°28 | 10°15 | 3°39 | 3°50 | 15°10 | 19° 3 | T 24 |
| W25 | 8 16 34 | 5° 2'46 | 22°43 | 7°53 | 3°R44 | 16°41 | 5° 3 | 9°13 | 20°38 | 18°30 | 10°14 | 3°32 | 3°47 | 15°17 | 19° 0 | W25 |
| T 26 | 8 20 31 | 6° 3'42 | 6 Υ 32 | 9°38 | 3°42 | 16°58 | 5°12 | 9° 9 | 20°41 | 18°31 | 10°14 | 3°28 | 3°44 | 15°23 | 18°58 | T 26 |
| F 27 | 8 24 27 | 7° 4'37 | 19°51 | 11°24 | 3°37 | 17°15 | 5°22 | 9° 5 | 20°44 | 18°33 | 10°13 | 3°26 | 3°41 | 15°30 | 18°55 | F 27 |
| S 28 | 8 28 24 | 8° 5'31 | 2 8 44 | 13°10 | 3°29 | 17°31 | 5°31 | 9° 1 | 20°47 | 18°35 | 10°13 | 3°26 | 3°38 | 15°37 | 18°52 | S 28 |
| S 29 | 8 32 20 | 9° 6'23 | 15°14 | 14°56 | 3°20 | 17°46 | 5°40 | 8°57 | 20°50 | 18°36 | 10°12 | 3°26 | 3°34 | 15°44 | 18°50 | S 29 |
| M30 | 8 36 17 | 10° 7'14 | 2 <u>7</u> °26 | 16°43 | 3° 7 | 18° 1 | 5°49 | 8°53 | 20°52 | 18°38 | 10°11 | 3°25 | 3°31 | 15°50 | 18°47 | M30 |
| T 31 | 8 40 13 | 11≈ 8'04 | 9∏27 | 18 ≈ 31 | 2) 52 | 18 ≏ 16 | 5 ₹ 58 | 8 9 49 | 20 渘 55 | 18 ∡ 39 | 10 耳 11 | 3 8 22 | 3 8 28 | 15957 | 18 M 44 | T 31 |

Delta T = 42.62 sec

Greg. Calendar

FEBRUARY 1651 GC 00:00 UT

| Day | Sid.t | 0 | Ŋ | φ | · | ð | 4 | ħ | ¥ | ¥ | 2 | T. | C | ţ | δ | Day |
|------|----------|------------------|----------------|----------------|---------------|----------------|---------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------|----------------|------|
| W 1 | 8 44 10 | 12≈ 8'52 | 21耳20 | 20≈18 | 2°R35 | 18 ≏ 30 | 6 ₹ 7 | 8°R45 | 20 ∡ 758 | 18 × 741 | 10°R11 | 3°R16 | 3 8 25 | 1695 4 | 18°R41 | W 1 |
| T 2 | 8 48 7 | 13° 9'39 | 39511 | 22° 6 | 2) 15 | 18°44 | 6°16 | 8 9 42 | 21° 0 | 18°42 | 10 Ⅱ 10 | 3 8 7 | 3°22 | 16°10 | 18 M 37 | T 2 |
| F 3 | 8 52 3 | 14°10'24 | 15° 1 | 23°54 | 1°53 | 18°57 | 6°24 | 8°38 | 21° 3 | 18°44 | 10°10 | 2°56 | 3°19 | 16°17 | 18°34 | F 3 |
| S 4 | 8 56 0 | 15°11'08 | 26°55 | 25°41 | 1°29 | 19°10 | 6°33 | 8°35 | 21° 5 | 18°45 | 10° 9 | 2°43 | 3°15 | 16°24 | 18°31 | S 4 |
| S 5 | 8 59 56 | 16°11'50 | 8 Ω 52 | 27°28 | 1° 2 | 19°22 | 6°41 | 8°31 | 21° 8 | 18°47 | 10° 9 | 2°28 | 3°12 | 16°31 | 18°27 | S 5 |
| M 6 | 9 3 53 | 17°12'31 | 20°56 | 29°15 | 0°33 | 19°33 | 6°49 | 8°28 | 21°10 | 18°48 | 10° 8 | 2°14 | 3° 9 | 16°37 | 18°24 | M 6 |
| T 7 | 9 7 49 | 18°13'10 | 3 m) 7 | 1) 1 | 0° 3 | 19°44 | 6°57 | 8°25 | 21°13 | 18°50 | 10° 8 | 2° 2 | 3° 6 | 16°44 | 18°20 | T 7 |
| W 8 | 9 11 46 | 19°13'49 | 15°25 | 2°46 | 29≈31 | 19°55 | 7° 5 | 8°21 | 21°15 | 18°51 | 10° 8 | 1°51 | 3° 3 | 16°51 | 18°16 | W 8 |
| T 9 | 9 15 42 | 20°14'25 | 27°52 | 4°29 | 28°57 | 20° 5 | 7°13 | 8°18 | 21°17 | 18°52 | 10° 7 | 1°44 | 3° 0 | 16°58 | 18°13 | T 9 |
| F 10 | 9 19 39 | 21°15'01 | 10 ≏ 29 | 6°10 | 28°23 | 20°14 | 7°21 | 8°15 | 21°19 | 18°54 | 10° 7 | 1°39 | 2°56 | 17° 4 | 18° 9 | F 10 |
| S 11 | 9 23 36 | 22°15'35 | 23°19 | 7°48 | 27°47 | 20°23 | 7°28 | 8°13 | 21°22 | 18°55 | 10° 7 | 1°37 | 2°53 | 17°11 | 18° 5 | S 11 |
| S 12 | 9 27 32 | 23°16'08 | 6ML23 | 9°24 | 27°10 | 20°31 | 7°36 | 8°10 | 21°24 | 18°56 | 10° 7 | 1°D37 | 2°50 | 17°18 | 18° 1 | S 12 |
| M13 | 9 31 29 | 24°16'40 | 19°46 | 10°56 | 26°33 | 20°39 | 7°43 | 8° 7 | 21°26 | 18°57 | 10° 6 | 1°R37 | 2°47 | 17°24 | 17°57 | M13 |
| T 14 | 9 35 25 | 25°17'10 | 3 . ₹29 | 12°25 | 25°56 | 20°46 | 7°50 | 8° 5 | 21°28 | 18°58 | 10° 6 | 1°37 | 2°44 | 17°31 | 17°53 | T 14 |
| W15 | 9 39 22 | 26°17'40 | 17°33 | 13°48 | 25°18 | 20°52 | 7°57 | 8° 2 | 21°30 | 19° 0 | 10° 6 | 1°35 | 2°40 | 17°38 | 17°48 | W15 |
| T 16 | 9 43 18 | 27°18'08 | 1 る 59 | 15° 6 | 24°41 | 20°57 | 8° 4 | 8° 0 | 21°32 | 19° 1 | 10° 6 | 1°31 | 2°37 | 17°45 | 17°44 | T 16 |
| F 17 | 9 47 15 | 28°18'35 | 16°43 | 16°18 | 24° 4 | 21° 2 | 8°10 | 7°57 | 21°34 | 19° 2 | 10° 6 | 1°24 | 2°34 | 17°51 | 17°40 | F 17 |
| S 18 | 9 51 11 | 29°19'00 | 1≈40 | 17°24 | 23°28 | 21° 7 | 8°17 | 7°55 | 21°36 | 19° 3 | 10° 6 | 1°15 | 2°31 | 17°58 | 17°36 | S 18 |
| S 19 | 9 55 8 | 0 光 19′24 | 16°41 | 18°22 | 22°53 | 21°10 | 8°23 | 7°53 | 21°38 | 19° 4 | 10° 6 | 1° 6 | 2°28 | 18° 5 | 17°31 | S 19 |
| M20 | 9 59 5 | 1°19'45 | 1) 37 | 19°12 | 22°19 | 21°13 | 8°30 | 7°51 | 21°40 | 19° 5 | 10° 5 | 0°56 | 2°25 | 18°11 | 17°27 | M20 |
| T 21 | 10 3 1 | 2°20'06 | 16°18 | 19°54 | 21°47 | 21°15 | 8°36 | 7°49 | 21°41 | 19° 6 | 10° 5 | 0°48 | 2°21 | 18°18 | 17°22 | T 21 |
| W22 | 10 6 58 | 3°20'24 | 0 Υ 38 | 20°26 | 21°16 | 21°17 | 8°42 | 7°48 | 21°43 | 19° 7 | 10° 5 | 0°42 | 2°18 | 18°25 | 17°18 | W22 |
| T 23 | 10 10 54 | 4°20'40 | 14°30 | 20°50 | 20°47 | 21°R17 | 8°47 | 7°46 | 21°45 | 19°8 | 10°D 5 | 0°38 | 2°15 | 18°32 | 17°13 | T 23 |
| F 24 | 10 14 51 | 5°20'55 | 27°56 | 21° 4 | 20°19 | 21°17 | 8°53 | 7°44 | 21°46 | 19° 9 | 10° 5 | 0°D37 | 2°12 | 18°38 | 17° 8 | F 24 |
| S 25 | 10 18 47 | 6°21'07 | 10854 | 21°R 9 | 19°54 | 21°16 | 8°58 | 7°43 | 21°48 | 19° 9 | 10° 5 | 0°37 | 2° 9 | 18°45 | 17° 4 | S 25 |
| S 26 | 10 22 44 | 7°21'18 | 23°30 | 21° 4 | 19°31 | 21°15 | 9° 4 | 7°42 | 21°50 | 19°10 | 10° 6 | 0°38 | 2° 6 | 18°52 | 16°59 | S 26 |
| M27 | 10 26 40 | 8°21'26 | 5 Ⅱ 47 | 20°49 | 19°10 | 21°13 | 9° 9 | 7°40 | 21°51 | 19°11 | 10° 6 | 0°R39 | 2° 2 | 18°58 | 16°54 | M27 |
| T 28 | 10 30 37 | 9 米 21'32 | 17耳50 | 20 米 26 | 18≈52 | 21 ≏ 10 | 9 ∡ 14 | 7939 | 21 × 753 | 19 × 12 | 10耳 6 | 0 8 39 | 1 8 59 | 1995 5 | 16 M 50 | T 28 |

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| T 2 10 38 30 11°21'38 11©35 19 ★16 18≈22 21 ♠ 1 9°23 7©37 21°55 19°13 10° 6 0♂32 1° 8 | Ç | U | Ŷ, | Day |
|--|---------|---------------|-----------------|------|
| F 3 10 42 27 12°21'38 23°27 18°31 18°11 20°56 9°28 7°37 21°57 19°14 10° 6 0°26 1°3 10°42 13°1 17°21'36 5€23 17°41 18°2 20°50 9°32 7°36 21°58 19°14 10° 6 0°18 1°3 10°50 20 14°21'31 17°26 16°46 17°55 20°43 9°36 7°35 21°59 19°15 10° 7 0° 9 1°4 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° | | 1 8 56 | | W 1 |
| S 4 10 46 23 13°21'36 5Ω23 17°41 18° 2 20°50 9°32 7°36 21°58 19°14 10° 6 0°18 1° S 5 10 50 20 14°21'31 17°26 16°46 17°55 20°43 9°36 7°35 21°59 19°15 10° 7 0° 9 1° M 6 10 54 16 15°21'25 29°38 15°49 17°52 20°36 9°40 7°35 22° 0 19°15 10° 7 0° 0 1° T 7 10 58 13 16°21'16 12m 1 14°50 17°D50 20°27 9°44 7°35 22° 1 19°16 10° 7 29°Y52 1° W 8 11 2 9 17°21'05 24°34 13°51 17°51 20°18 9°47 7°34 22° 2 19°16 10° 7 29°46 1° T 9 11 6 6 18°20'53 7♠19 12°54 17°55 20° 8 9°51 7°D34 22° 3 19°17 10° 8 29°42 1° F 10 11 10 3 19°20'38 20°15 11°59 18° 0 19°58 9°54 7°34 22° 4 19°17 10° 8 29°39 1° S 11 11 13 59 20°20'22 3 m23 11° 7 18° 8 19°46 9°57 7°35 22° 5 19°18 10° 9 29°40 1° S 12 11 17 56 21°20'04 16°43 10°20 18°19 19°34 10° 0 7°35 22° 6 19°18 10° 9 29°40 1° M13 11 21 52 22°19'45 0♠17 9°37 18°31 19°21 10° 3 7°35 22° 7 19°18 10° 9 29°41 1° T 14 11 25 49 23°19'23 14° 3 9° 0 18°46 19° 7 10° 5 7°36 22° 7 19°18 10° 9 29°41 1° W15 11 29 45 24°19'00 28° 4 8°28 19° 2 18°53 10° 8 7°36 22° 8 19°19 10°10 29°843 1° T 16 11 33 42 25°18'35 12♂17 8° 3 19°21 18°38 10°10 7°37 22° 9 19°19 10°10 29°42 1° F 17 11 37 38 26°18'09 26°41 7°44 19°41 18°22 10°12 7°38 22° 9 19°19 10°11 29°39 1° | 3 19°19 | 1°53 | 16 M)40 | T 2 |
| S 5 10 50 20 14°21'31 17°26 16°46 17°55 20°43 9°36 7°35 21°59 19°15 10° 7 0° 9 1° 1° 10 54 16 15°21'25 29°38 15°49 17°52 20°36 9°40 7°35 22° 0 19°15 10° 7 0° 0 1° 1° 10 58 13 16°21'16 12m 1 14°50 17°D50 20°27 9°44 7°35 22° 1 19°16 10° 7 29°Y52 1° 1° 10 8 11 2 9 17°21'05 24°34 13°51 17°51 20°18 9°47 7°34 22° 2 19°16 10° 7 29°46 1° 1° 1° 16 6 18°20'53 7♣19 12°54 17°55 20° 8 9°51 7°D34 22° 3 19°17 10° 8 29°42 1° 1° 11 10 3 19°20'38 20°15 11°59 18° 0 19°58 9°54 7°34 22° 4 19°17 10° 8 29°39 1° 1° 11 11 13 59 20°20'22 3 m.23 11° 7 18° 8 19°46 9°57 7°35 22° 5 19°18 10° 9 29°40 1° 1° 11 10 3 19°20'45 0♣17 9°37 18°31 19°21 10° 3 7°35 22° 6 19°18 10° 9 29°40 1° 1° 11 11 12 549 23°19'23 14° 3 9° 0 18°46 19° 7 10° 5 7°36 22° 7 19°18 10° 9 29°41 1° 1° 11 11 11 11 11 11 11 11 11 11 11 |) 19°25 | 1°50 | 16°35 | F 3 |
| M 6 10 54 16 15°21'25 29°38 15°49 17°52 20°36 9°40 7°35 22° 0 19°15 10° 7 0° 0 1° T 7 10 58 13 16°21'16 12m 1 14°50 17°D50 20°27 9°44 7°35 22° 1 19°16 10° 7 29°45 1° W 8 11 2 9 17°21'05 24°34 13°51 17°51 20°18 9°47 7°34 22° 2 19°16 10° 7 29°46 1° T 9 11 6 6 18°20'53 79 19 12°54 17°55 20° 8 9°51 7°D34 22° 3 19°17 10° 8 29°42 1° F 10 11 10 3 19°20'38 20°15 11°59 18° 0 19°58 9°54 7°34 22° 4 19°17 10° 8 29°39 1° S 11 11 13 59 20°20'22 3m23 11° 7 18° 8 19°46 9°57 7°35 22° 5 19°18 10° 9 29°40 1° M13 11 21 52 22°19'45 0√11 7 9°37 18°31 19°21 10° 3 7°35 22° 7 19°18 10° 9 29°41 1° M13 11 21 54 23°19'23 14° 3 9° 0 18°46 19° 7 10° 5 7°36 22° 7 19°19 10°10 29°43 1° M15 11 29 45 24°19'00 28° 4 8°28 19° 2 18°53 10° 8 7°36 22° 9 19°19 10°10 29°42 1° F 17 11 37 38 26°18'09 26°41 7°44 19°41 18°22 10°12 7°38 22° 9 19°19 10°11 29°39 1° S 10° 18 10° 10 29°39 1° S 10° 18 10° 10 29°39 1° S 10° 18 10° 10 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° | 5 19°32 | 1°46 | 16°31 | S 4 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 3 19°39 | 1°43 | 16°26 | S 5 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |) 19°45 | 1°40 | 16°21 | M 6 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7 19°52 | 1°37 | 16°16 | T 7 |
| F 10 | 4 19°59 | 1°34 | 16°11 | W 8 |
| S 11 11 13 59 20°20'22 3 m23 11° 7 18° 8 19°46 9°57 7°35 22° 5 19°18 10° 8 29°D39 1° S 12 11 17 56 21°20'04 16°43 10°20 18°19 19°34 10° 0 7°35 22° 6 19°18 10° 9 29°40 1° M13 11 21 52 22°19'45 0 √17 9°37 18°31 19°21 10° 3 7°35 22° 7 19°18 10° 9 29°41 1° T 14 11 25 49 23°19'23 14° 3 9° 0 18°46 19° 7 10° 5 7°36 22° 7 19°18 10° 9 29°41 1° W15 11 29 45 24°19'00 28° 4 8°28 19° 2 18°53 10° 8 7°36 22° 7 19°19 10°10 29°43 1° T 16 11 33 42 25°18'35 12 517 8° 3 19°21 18°38 10°10 7°37 22° 9 19°19 10°10 29°42 1° F 17 11 37 38 26°18'09 26°41 7°44 19°41 18°22 10°12 7°38 22° 9 19°19 10°11 29°39 1° | 1 20° 6 | 1°31 | 16° 6 | T 9 |
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| W15 | 3 20°33 | 1°18 | 15°47 | M13 |
| T 16 11 33 42 25°18'35 12 5 17 8° 3 19°21 18°38 10°10 7°37 22° 9 19°19 10°10 29°42 1° F 17 11 37 38 26°18'09 26°41 7°44 19°41 18°22 10°12 7°38 22° 9 19°19 10°11 29°39 1° | 5 20°39 | 1°15 | 15°43 | T 14 |
| F 17 11 37 38 26°18'09 26°41 7°44 19°41 18°22 10°12 7°38 22° 9 19°19 10°11 29°39 1° | 2 20°46 | 1°12 | 15°38 | W15 |
| | 3 20°53 | 1°8 | 15°33 | T 16 |
| S 18 11 / 1 35 27°17'/1 11∞13 7°31 20°3 18°6 10°17 7°30 22°10 10°10 10°11 20°35 1° | 5 20°59 | 1° 5 | 15°28 | F 17 |
| 3 18 11 41 33 27 17 41 11 12 3 7 31 20 3 16 0 10 14 7 39 22 10 19 19 10 11 29 33 1 | 2 21° 6 | 1° 2 | 15°24 | S 18 |
| S 19 11 45 32 28°17'10 25°46 7°24 20°28 17°48 10°15 7°40 22°10 19°19 10°12 29°30 0° | 9 21°13 | 0°59 | 15°19 | S 19 |
| M20 11 49 28 29°16′38 10 € 16 7°D23 20°53 17°31 10°17 7°41 22°11 19°20 10°12 29°26 0° | 5 21°20 | 0°56 | 15°14 | M20 |
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| T 23 12 1 18 2°14'50 22°22 7°53 22°20 16°34 10°20 7°45 22°11 19°20 10°14 29°18 0° | 5 21°40 | 0°46 | 15° 1 | T 23 |
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| S 25 12 9 11 4°13'27 18°42 8°39 23°25 15°54 10°21 7°48 22°12 19°19 10°15 29°19 0° | 21°53 | 0°40 | 14°52 | S 25 |
| | | 0°37 | | S 26 |
| | 3 22° 7 | 0°33 | - | M27 |
| T 28 12 21 1 7°11'06 25°47 10°21 25°13 14°50 10°22 7°54 22°12 19°19 10°17 29°23 0° | 22°13 | 0°30 | 14°39 | T 28 |
| | | 0°27 | | W29 |
| | | 0°24 | | T 30 |
| F 31 12 32 50 10 Y 8'24 1 \Omega 30 12 \mathred{H}37 27 \infty 12 13 \tilde{\Pi}43 10 \tilde{\Pi}20 8 \tilde{\Pi} 0 22 \tilde{\Pi}12 19 \tilde{\Pi}18 10 \tilde{\Pi}20 29 \tilde{\Y}22 0 \omega 8 | 1 22934 | 0 8 21 | 14 Mp 27 | F 31 |

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| S 1 | 12 36 47 | 11 ° 7'25 | 13 N 28 | 13) (30 | 27≈53 | 13°R21 | 10°R19 | 8 9 3 | 22°R11 | 19°R18 | 10 Ⅱ 20 | 29°R20 | 0817 | 22940 | 14°R23 | S 1 |
| S 2 | 12 40 43 | 12° 6'25 | 25°35 | 14°25 | 28°36 | 12 ≏ 58 | 10 ∡ 18 | 8° 5 | 22 × 11 | 19 .7 17 | 10°21 | 29 Υ 17 | 0°14 | 22°47 | 14 m)19 | S 2 |
| M 3 | 12 44 40 | 13° 5'21 | 7 m 53 | 15°23 | 29°20 | 12°35 | 10°17 | 8° 8 | 22°11 | 19°17 | 10°22 | 29°15 | 0°11 | 22°54 | 14°15 | M 3 |
| T 4 | 12 48 36 | 14° 4'16 | 20°25 | 16°24 | 0) (4 | 12°12 | 10°16 | 8°11 | 22°10 | 19°17 | 10°23 | 29°12 | 0° 8 | 23° 0 | 14°11 | T 4 |
| W 5 | 12 52 33 | 15° 3'09 | 3 ≏ 13 | 17°28 | 0°50 | 11°49 | 10°14 | 8°13 | 22°10 | 19°16 | 10°24 | 29°11 | 0° 5 | 23° 7 | 14° 8 | W 5 |
| T 6 | 12 56 29 | 16° 1'59 | 16°17 | 18°34 | 1°36 | 11°26 | 10°13 | 8°16 | 22° 9 | 19°16 | 10°25 | 29°10 | 0° 2 | 23°14 | 14° 4 | T 6 |
| F 7 | 13 0 26 | 17° 0'47 | 29°36 | 19°43 | 2°23 | 11° 3 | 10°11 | 8°19 | 22° 9 | 19°15 | 10°25 | 29°D 9 | 29 Y 58 | 23°21 | 14° 1 | F 7 |
| S 8 | 13 4 23 | 17°59'34 | 13 M 9 | 20°54 | 3°11 | 10°40 | 10° 9 | 8°22 | 22° 8 | 19°15 | 10°26 | 29°10 | 29°55 | 23°27 | 13°57 | S 8 |
| S 9 | 13 8 19 | 18°58'18 | 26°54 | 22° 8 | 4° 0 | 10°17 | 10° 6 | 8°26 | 22° 8 | 19°14 | 10°27 | 29°10 | 29°52 | 23°34 | 13°54 | S 9 |
| M10 | 13 12 16 | 19°57'01 | 10 × 750 | 23°23 | 4°50 | 9°55 | 10° 4 | 8°29 | 22° 7 | 19°13 | 10°28 | 29°11 | 29°49 | 23°41 | 13°50 | M10 |
| T 11 | 13 16 12 | 20°55'43 | 24°54 | 24°41 | 5°40 | 9°33 | 10° 1 | 8°32 | 22° 6 | 19°13 | 10°29 | 29°12 | 29°46 | 23°47 | 13°47 | T 11 |
| W12 | 13 20 9 | 21°54'22 | 9 る 3 | 26° 0 | 6°31 | 9°11 | 9°58 | 8°36 | 22° 6 | 19°12 | 10°30 | 29°12 | 29°43 | 23°54 | 13°44 | W12 |
| T 13 | 13 24 5 | 22°53'00 | 23°16 | 27°22 | 7°23 | 8°49 | 9°55 | 8°40 | 22° 5 | 19°12 | 10°31 | 29°R13 | 29°39 | 24° 1 | 13°41 | T 13 |
| F 14 | 13 28 2 | 23°51'36 | 7≈30 | 28°46 | 8°15 | 8°28 | 9°52 | 8°43 | 22° 4 | 19°11 | 10°32 | 29°12 | 29°36 | 24° 8 | 13°38 | F 14 |
| S 15 | 13 31 58 | 24°50'11 | 21°42 | 0 Υ 11 | 9° 8 | 8° 7 | 9°49 | 8°47 | 22° 3 | 19°10 | 10°33 | 29°12 | 29°33 | 24°14 | 13°35 | S 15 |
| S 16 | 13 35 55 | 25°48'44 | 5) 50 | 1°39 | 10° 2 | 7°46 | 9°45 | 8°51 | 22° 2 | 19° 9 | 10°34 | 29°12 | 29°30 | 24°21 | 13°32 | S 16 |
| M17 | 13 39 52 | 26°47'15 | 19°51 | 3° 8 | 10°56 | 7°27 | 9°42 | 8°55 | 22° 1 | 19°8 | 10°35 | 29°11 | 29°27 | 24°28 | 13°30 | M17 |
| T 18 | 13 43 48 | 27°45'44 | 3 ℃ 41 | 4°39 | 11°50 | 7° 7 | 9°38 | 8°59 | 22° 0 | 19°8 | 10°36 | 29°11 | 29°23 | 24°35 | 13°27 | T 18 |
| W19 | 13 47 45 | 28°44'12 | 17°19 | 6°12 | 12°45 | 6°48 | 9°34 | 9° 3 | 21°59 | 19° 7 | 10°37 | 29°11 | 29°20 | 24°41 | 13°25 | W19 |
| T 20 | 13 51 41 | 29°42'38 | 0 8 42 | 7°46 | 13°41 | 6°30 | 9°29 | 9° 7 | 21°58 | 19° 6 | 10°38 | 29°11 | 29°17 | 24°48 | 13°22 | T 20 |
| F 21 | 13 55 38 | 0841'02 | 13°48 | 9°23 | 14°37 | 6°12 | 9°25 | 9°12 | 21°57 | 19° 5 | 10°39 | 29°11 | 29°14 | 24°55 | 13°20 | F 21 |
| S 22 | 13 59 34 | 1°39'24 | 26°38 | 11° 1 | 15°34 | 5°55 | 9°21 | 9°16 | 21°55 | 19° 4 | 10°41 | 29°11 | 29°11 | 25° 1 | 13°18 | S 22 |
| S 23 | 14 3 31 | 2°37'44 | 9Ⅱ12 | 12°41 | 16°31 | 5°38 | 9°16 | 9°20 | 21°54 | 19° 3 | 10°42 | 29°11 | 29° 8 | 25° 8 | 13°16 | S 23 |
| M24 | 14 7 27 | 3°36'03 | 21°31 | 14°23 | 17°28 | 5°23 | 9°11 | 9°25 | 21°53 | 19° 2 | 10°43 | 29°10 | 29° 4 | 25°15 | 13°14 | M24 |
| T 25 | 14 11 24 | 4°34'19 | 3938 | 16° 6 | 18°26 | 5° 8 | 9° 6 | 9°30 | 21°51 | 19° 1 | 10°44 | 29° 9 | 29° 1 | 25°22 | 13°12 | T 25 |
| W26 | 14 15 21 | 5°32'33 | 15°36 | 17°52 | 19°24 | 4°53 | 9° 1 | 9°34 | 21°50 | 19° 0 | 10°45 | 29° 9 | 28°58 | 25°28 | 13°10 | W26 |
| T 27 | 14 19 17 | 6°30'46 | 27°30 | 19°39 | 20°23 | 4°40 | 8°56 | 9°39 | 21°48 | 18°59 | 10°46 | 29° 8 | 28°55 | 25°35 | 13° 9 | T 27 |
| F 28 | 14 23 14 | 7°28'56 | 9 Ω 23 | 21°28 | 21°22 | 4°27 | 8°50 | 9°44 | 21°47 | 18°58 | 10°47 | 29°D 8 | 28°52 | 25°42 | 13° 7 | F 28 |
| S 29 | 14 27 10 | 8°27'04 | 21°21 | 23°19 | 22°21 | 4°15 | 8°45 | 9°49 | 21°45 | 18°57 | 10°49 | 29° 9 | 28°49 | 25°49 | 13° 6 | S 29 |
| S 30 | 14 31 7 | 9 8 25'11 | 3 m) 28 | 25 Y 11 | 23 米 21 | 4 º 3 | 8 % 39 | 9954 | 21 ,7 44 | 18 ∡ 56 | 10耳50 | 29 Y 9 | 28 Y 45 | 25955 | 13 Mp 5 | S 30 |

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|------|----------|------------------|-----------------|---------------|----------------|---------------|----------------|--------|----------------|-----------------|-----------------|----------------|----------------|--------|-----------------|------|
| M 1 | 14 35 3 | 10823'15 | 15 M)48 | 27 Y 5 | 24 米 21 | 3°R53 | 8°R33 | 9959 | 21°R42 | 18°R54 | 10耳51 | 29 Υ 10 | 28 Y 42 | 2695 2 | 13°R 3 | M 1 |
| T 2 | 14 39 0 | 11°21'17 | 28°26 | 29° 2 | 25°22 | 3 ≏ 43 | 8 ∡ 727 | 10° 5 | 21 ~ 41 | 18 × 753 | 10°52 | 29°11 | 28°39 | 26° 9 | 13 m) 2 | T 2 |
| W 3 | 14 42 56 | 12°19'18 | 11 ≏ 22 | 0 8 59 | 26°22 | 3°34 | 8°21 | 10°10 | 21°39 | 18°52 | 10°53 | 29°12 | 28°36 | 26°15 | 13° 1 | W 3 |
| T 4 | 14 46 53 | 13°17'16 | 24°40 | 2°59 | 27°23 | 3°26 | 8°15 | 10°15 | 21°37 | 18°51 | 10°55 | 29°R13 | 28°33 | 26°22 | 13° 0 | T 4 |
| F 5 | 14 50 50 | 14°15'14 | 8 M .19 | 5° 0 | 28°25 | 3°19 | 8° 9 | 10°21 | 21°36 | 18°50 | 10°56 | 29°13 | 28°29 | 26°29 | 13° 0 | F 5 |
| S 6 | 14 54 46 | 15°13'09 | 22°16 | 7° 3 | 29°26 | 3°12 | 8° 2 | 10°26 | 21°34 | 18°48 | 10°57 | 29°12 | 28°26 | 26°36 | 12°59 | S 6 |
| S 7 | 14 58 43 | 16°11'03 | 6 ₮ 30 | 9° 8 | 0 Υ 28 | 3° 7 | 7°56 | 10°32 | 21°32 | 18°47 | 10°58 | 29°10 | 28°23 | 26°42 | 12°58 | S 7 |
| | 15 2 39 | 17° 8'56 | 20°54 | 11°14 | 1°30 | 3° 2 | 7°49 | 10°37 | 21°30 | 18°46 | 11° 0 | 29° 8 | 28°20 | 26°49 | 12°58 | M 8 |
| T 9 | 15 6 36 | 18° 6'47 | 5 る 23 | 13°21 | 2°33 | 2°57 | 7°42 | 10°43 | 21°28 | 18°44 | 11° 1 | 29° 5 | 28°17 | 26°56 | 12°58 | T 9 |
| W10 | 15 10 32 | 19° 4'37 | 19°52 | 15°30 | 3°36 | 2°54 | 7°36 | 10°49 | 21°26 | 18°43 | 11° 2 | 29° 3 | 28°14 | 27° 2 | 12°58 | W10 |
| T 11 | 15 14 29 | 20° 2'26 | 4≈16 | 17°39 | 4°38 | 2°52 | 7°29 | 10°55 | 21°24 | 18°42 | 11° 4 | 29° 2 | 28°10 | 27° 9 | 12°D58 | T 11 |
| | 15 18 25 | 21° 0'14 | 18°32 | 19°49 | 5°42 | 2°50 | 7°22 | 11° 1 | 21°22 | 18°40 | 11° 5 | 29°D 1 | 28° 7 | 27°16 | 12°58 | F 12 |
| S 13 | 15 22 22 | 21°58'01 | 2) 36 | 22° 0 | 6°45 | 2°49 | 7°15 | 11° 6 | 21°20 | 18°39 | 11° 6 | 29° 1 | 28° 4 | 27°23 | 12°58 | S 13 |
| S 14 | 15 26 19 | 22°55'46 | 16°27 | 24°12 | 7°49 | 2°D49 | 7° 8 | 11°12 | 21°18 | 18°38 | 11°8 | 29° 2 | 28° 1 | 27°29 | 12°58 | S 14 |
| M15 | 15 30 15 | 23°53'30 | 0 Υ 5 | 26°23 | 8°53 | 2°49 | 7° 0 | 11°19 | 21°16 | 18°36 | 11° 9 | 29° 4 | 27°58 | 27°36 | 12°58 | M15 |
| | 15 34 12 | 24°51'13 | 13°30 | 28°34 | 9°57 | 2°50 | 6°53 | 11°25 | 21°14 | 18°35 | 11°10 | 29° 5 | 27°55 | 27°43 | 12°59 | T 16 |
| W17 | 15 38 8 | 25°48'55 | 26°43 | 0 Ⅱ 45 | 11° 1 | 2°52 | 6°46 | 11°31 | 21°12 | 18°33 | 11°12 | 29°R 6 | 27°51 | 27°50 | 13° 0 | W17 |
| T 18 | 15 42 5 | 26°46'36 | 9 8 42 | 2°55 | 12° 6 | 2°55 | 6°38 | 11°37 | 21°10 | 18°32 | 11°13 | 29° 6 | 27°48 | 27°56 | 13° 0 | T 18 |
| F 19 | 15 46 1 | 27°44'16 | 22°29 | 5° 4 | 13°10 | 2°59 | 6°31 | 11°44 | 21° 8 | 18°30 | 11°14 | 29° 4 | 27°45 | 28° 3 | 13° 1 | F 19 |
| S 20 | 15 49 58 | 28°41'54 | 5 Ⅱ 4 | 7°12 | 14°15 | 3° 3 | 6°23 | 11°50 | 21° 6 | 18°29 | 11°16 | 29° 0 | 27°42 | 28°10 | 13° 2 | S 20 |
| S 21 | 15 53 54 | 29°39'32 | 17°27 | 9°19 | 15°20 | 3° 8 | 6°16 | 11°56 | 21° 3 | 18°27 | 11°17 | 28°56 | 27°39 | 28°16 | 13° 3 | S 21 |
| M22 | 15 57 51 | 0耳37'08 | 29°40 | 11°23 | 16°25 | 3°14 | 6° 8 | 12° 3 | 21° 1 | 18°26 | 11°18 | 28°51 | 27°35 | 28°23 | 13° 4 | M22 |
| T 23 | 16 1 48 | 1°34'43 | 11 95 43 | 13°26 | 17°31 | 3°20 | 6° 1 | 12° 9 | 20°59 | 18°24 | 11°20 | 28°45 | 27°32 | 28°30 | 13° 6 | T 23 |
| W24 | 16 5 44 | 2°32'16 | 23°40 | 15°26 | 18°36 | 3°27 | 5°53 | 12°16 | 20°57 | 18°23 | 11°21 | 28°40 | 27°29 | 28°37 | 13° 7 | W24 |
| T 25 | 16 941 | 3°29'48 | 5 Ω 33 | 17°25 | 19°42 | 3°35 | 5°46 | 12°23 | 20°54 | 18°21 | 11°22 | 28°35 | 27°26 | 28°43 | 13° 9 | T 25 |
| F 26 | 16 13 37 | 4°27'19 | 17°25 | 19°21 | 20°48 | 3°44 | 5°38 | 12°29 | 20°52 | 18°20 | 11°24 | 28°32 | 27°23 | 28°50 | 13°10 | F 26 |
| S 27 | 16 17 34 | 5°24'48 | 29°21 | 21°14 | 21°54 | 3°53 | 5°30 | 12°36 | 20°50 | 18°18 | 11°25 | 28°31 | 27°20 | 28°57 | 13°12 | S 27 |
| S 28 | 16 21 30 | 6°22'17 | 11 M)26 | 23° 5 | 23° 0 | 4° 3 | 5°23 | 12°43 | 20°47 | 18°17 | 11°27 | 28°D31 | 27°16 | 29° 4 | 13°14 | S 28 |
| M29 | 16 25 27 | 7°19'43 | 23°45 | 24°54 | 24° 6 | 4°13 | 5°15 | 12°50 | 20°45 | 18°15 | 11°28 | 28°32 | 27°13 | 29°10 | 13°16 | M29 |
| | 16 29 23 | 8°17'09 | 6 ₽ 21 | 26°39 | 25°13 | 4°24 | 5° 7 | 12°56 | 20°43 | 18°13 | 11°29 | 28°33 | 27°10 | 29°17 | 13°18 | T 30 |
| W31 | 16 33 20 | 9 Ⅱ 14'33 | 19 ≏ 20 | 28∏23 | 26 Υ 19 | 4 ≏ 36 | 5 √ 0 | 1399 3 | 20 ₮ 40 | 18 × 12 | 11 II 31 | 28 Y 34 | 27 ° 7 | 299524 | 13 m 20 | W31 |

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| Day | Sid.t | 0 | D | ğ | Ş | ♂ | 4 | ħ |)ф(| ¥ | Р | P. | v | Č | ę, | Day |
|------|----------|-------------------|----------------|--------|----------------|----------------|----------------|--------|-----------------|-----------------|----------------|----------------|----------------|---------------|----------------|------|
| T 1 | 16 37 17 | 10 Ⅱ 11'57 | 2 M 43 | 099 3 | 27 Υ 26 | 4 <u>₽</u> 48 | 4°R52 | 139510 | 20°R38 | 18°R10 | 11 Ⅲ 32 | 28°R35 | 27 Y 4 | 29930 | 13 m 23 | T 1 |
| F 2 | 16 41 13 | 11° 9'19 | 16°32 | 1°41 | 28°33 | 5° 1 | 4 ₹ 45 | 13°17 | 20 ∡ ³35 | 18 ∡ 9 | 11°34 | 28 Y 33 | 27° 1 | 29°37 | 13°25 | F 2 |
| S 3 | 16 45 10 | 12° 6'40 | 0 , 747 | 3°16 | 29°40 | 5°14 | 4°37 | 13°24 | 20°33 | 18° 7 | 11°35 | 28°30 | 26°57 | 29°44 | 13°28 | S 3 |
| S 4 | 16 49 6 | 13° 4'01 | 15°22 | 4°48 | 0 8 47 | 5°28 | 4°30 | 13°31 | 20°31 | 18° 5 | 11°36 | 28°25 | 26°54 | 29°51 | 13°30 | S 4 |
| M 5 | 16 53 3 | 14° 1'20 | 0 궁 12 | 6°17 | 1°54 | 5°43 | 4°22 | 13°39 | 20°28 | 18° 4 | 11°38 | 28°19 | 26°51 | 29°57 | 13°33 | M 5 |
| T 6 | 16 56 59 | 14°58'39 | 15° 7 | 7°43 | 3° 2 | 5°58 | 4°15 | 13°46 | 20°26 | 18° 2 | 11°39 | 28°12 | 26°48 | 0 Ω 4 | 13°36 | T 6 |
| W 7 | 17 0 56 | 15°55'58 | 0≈ 1 | 9° 7 | 4° 9 | 6°13 | 4° 7 | 13°53 | 20°23 | 18° 1 | 11°41 | 28° 5 | 26°45 | 0°11 | 13°39 | W 7 |
| T 8 | 17 4 53 | 16°53'16 | 14°43 | 10°28 | 5°17 | 6°30 | 4° 0 | 14° 0 | 20°21 | 17°59 | 11°42 | 28° 0 | 26°41 | 0°17 | 13°42 | T 8 |
| F 9 | 17 8 49 | 17°50'33 | 29°10 | 11°46 | 6°24 | 6°46 | 3°53 | 14° 7 | 20°19 | 17°57 | 11°43 | 27°57 | 26°38 | 0°24 | 13°45 | F 9 |
| S 10 | 17 12 46 | 18°47'50 | 13 米 16 | 13° 0 | 7°32 | 7° 3 | 3°45 | 14°15 | 20°16 | 17°56 | 11°45 | 27°D55 | 26°35 | 0°31 | 13°48 | S 10 |
| S 11 | 17 16 42 | 19°45'07 | 27° 3 | 14°12 | 8°40 | 7°21 | 3°38 | 14°22 | 20°14 | 17°54 | 11°46 | 27°55 | 26°32 | 0°38 | 13°52 | S 11 |
| M12 | 17 20 39 | 20°42'24 | 10 Y 29 | 15°21 | 9°48 | 7°39 | 3°31 | 14°29 | 20°11 | 17°52 | 11°47 | 27°56 | 26°29 | 0°44 | 13°55 | M12 |
| T 13 | 17 24 35 | 21°39'40 | 23°38 | 16°26 | 10°56 | 7°58 | 3°24 | 14°37 | 20° 9 | 17°51 | 11°49 | 27°R57 | 26°26 | 0°51 | 13°59 | T 13 |
| W14 | 17 28 32 | 22°36'56 | 6 8 31 | 17°29 | 12° 5 | 8°17 | 3°17 | 14°44 | 20° 6 | 17°49 | 11°50 | 27°57 | 26°22 | 0°58 | 14° 2 | W14 |
| T 15 | 17 32 28 | 23°34'11 | 19°12 | 18°28 | 13°13 | 8°36 | 3°11 | 14°52 | 20° 4 | 17°48 | 11°52 | 27°55 | 26°19 | 1° 5 | 14° 6 | T 15 |
| F 16 | 17 36 25 | 24°31'27 | 1 Ⅱ 41 | 19°23 | 14°21 | 8°56 | 3° 4 | 14°59 | 20° 1 | 17°46 | 11°53 | 27°50 | 26°16 | 1°11 | 14°10 | F 16 |
| S 17 | 17 40 22 | 25°28'42 | 14° 0 | 20°15 | 15°30 | 9°17 | 2°57 | 15° 7 | 19°59 | 17°44 | 11°54 | 27°43 | 26°13 | 1°18 | 14°14 | S 17 |
| S 18 | 17 44 18 | 26°25'57 | 26°11 | 21° 4 | 16°39 | 9°38 | 2°51 | 15°14 | 19°56 | 17°43 | 11°56 | 27°34 | 26°10 | 1°25 | 14°18 | S 18 |
| M19 | 17 48 15 | 27°23'11 | 89915 | 21°49 | 17°47 | 9°59 | 2°44 | 15°22 | 19°54 | 17°41 | 11°57 | 27°23 | 26° 7 | 1°31 | 14°22 | M19 |
| T 20 | 17 52 11 | 28°20'26 | 20°13 | 22°29 | 18°56 | 10°21 | 2°38 | 15°29 | 19°52 | 17°40 | 11°58 | 27°12 | 26° 3 | 1°38 | 14°27 | T 20 |
| W21 | 17 56 8 | 29°17'39 | 2 N 7 | 23° 7 | 20° 5 | 10°43 | 2°32 | 15°37 | 19°49 | 17°38 | 12° 0 | 27° 1 | 26° 0 | 1°45 | 14°31 | W21 |
| T 22 | 18 0 4 | 09514'53 | 13°58 | 23°40 | 21°14 | 11° 6 | 2°26 | 15°44 | 19°47 | 17°36 | 12° 1 | 26°51 | 25°57 | 1°52 | 14°36 | T 22 |
| F 23 | 18 4 1 | 1°12'05 | 25°50 | 24° 8 | 22°23 | 11°29 | 2°20 | 15°52 | 19°44 | 17°35 | 12° 2 | 26°44 | 25°54 | 1°58 | 14°40 | F 23 |
| S 24 | 18 7 57 | 2° 9'18 | 7 m 45 | 24°33 | 23°32 | 11°52 | 2°14 | 16° 0 | 19°42 | 17°33 | 12° 4 | 26°39 | 25°51 | 2° 5 | 14°45 | S 24 |
| S 25 | 18 11 54 | 3° 6'30 | 19°48 | 24°53 | 24°42 | 12°16 | 2° 9 | 16° 7 | 19°40 | 17°32 | 12° 5 | 26°36 | 25°47 | 2°12 | 14°50 | S 25 |
| M26 | 18 15 51 | 4° 3'41 | 2 ₾ 3 | 25° 9 | 25°51 | 12°40 | 2° 3 | 16°15 | 19°37 | 17°30 | 12° 6 | 26°D35 | 25°44 | 2°19 | 14°54 | M26 |
| T 27 | 18 19 47 | 5° 0'52 | 14°36 | 25°20 | 27° 0 | 13° 4 | 1°58 | 16°23 | 19°35 | 17°29 | 12° 8 | 26°35 | 25°41 | 2°25 | 14°59 | T 27 |
| W28 | 18 23 44 | 5°58'03 | 27°31 | 25°26 | 28°10 | 13°29 | 1°52 | 16°30 | 19°33 | 17°27 | 12° 9 | 26°R35 | 25°38 | 2°32 | 15° 4 | W28 |
| T 29 | 18 27 40 | 6°55'14 | 10ML52 | 25°R28 | 29°19 | 13°54 | 1°47 | 16°38 | 19°30 | 17°26 | 12°10 | 26°35 | 25°35 | 2°39 | 15° 9 | T 29 |
| F 30 | 18 31 37 | 7952'24 | 24 M 42 | 25925 | 0Ⅱ29 | 14 <u>₽</u> 20 | 1 ∡ 142 | 169546 | 19 × 728 | 17 × 724 | 12 I I1 | 26 Y 32 | 25 Y 32 | 2 Ω 45 | 15 m 15 | F 30 |

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|------|----------|------------------|----------------|--------|---------------|----------------|----------------|--------|----------------|----------------|-----------------|----------------|----------------|---------------|-----------------|------|
| S 1 | 18 35 33 | 8949'34 | 9 ∡ 7 1 | 25°R18 | 1 Ⅱ 39 | 14 ≏ 46 | 1°R37 | 16954 | 19°R26 | 17°R23 | 12 II 13 | 26°R27 | 25 Y 28 | 2 N 52 | 15 m 20 | S 1 |
| S 2 | 18 39 30 | 9°46'45 | 23°46 | 2595 6 | 2°48 | 15°12 | 1 ₹ 33 | 17° 1 | 19 × 24 | 17 √ 21 | 12°14 | 26 Y 19 | 25°25 | 2°59 | 15°25 | S 2 |
| M 3 | 18 43 27 | 10°43'55 | 8 궁 50 | 24°49 | 3°58 | 15°38 | 1°28 | 17° 9 | 19°21 | 17°20 | 12°15 | 26°10 | 25°22 | 3° 6 | 15°31 | M 3 |
| T 4 | 18 47 23 | 11°41'05 | 24° 4 | 24°28 | 5°8 | 16° 5 | 1°24 | 17°17 | 19°19 | 17°18 | 12°16 | 26° 0 | 25°19 | 3°12 | 15°36 | T 4 |
| W 5 | 18 51 20 | 12°38'16 | 9≈17 | 24° 4 | 6°18 | 16°32 | 1°20 | 17°25 | 19°17 | 17°17 | 12°18 | 25°50 | 25°16 | 3°19 | 15°42 | W 5 |
| T 6 | 18 55 16 | 13°35'26 | 24°18 | 23°35 | 7°28 | 17° 0 | 1°16 | 17°33 | 19°15 | 17°16 | 12°19 | 25°41 | 25°13 | 3°26 | 15°48 | T 6 |
| F 7 | 18 59 13 | 14°32'38 | 9) 0 | 23° 4 | 8°38 | 17°28 | 1°12 | 17°40 | 19°13 | 17°14 | 12°20 | 25°35 | 25° 9 | 3°32 | 15°53 | F 7 |
| S 8 | 19 3 9 | 15°29'49 | 23°17 | 22°29 | 9°49 | 17°56 | 1° 8 | 17°48 | 19°11 | 17°13 | 12°21 | 25°32 | 25° 6 | 3°39 | 15°59 | S 8 |
| S 9 | 19 7 6 | 16°27'01 | 7 Υ 7 | 21°52 | 10°59 | 18°24 | 1° 4 | 17°56 | 19° 8 | 17°11 | 12°22 | 25°30 | 25° 3 | 3°46 | 16° 5 | S 9 |
| M10 | 19 11 2 | 17°24'14 | 20°32 | 21°13 | 12° 9 | 18°53 | 1° 1 | 18° 4 | 19° 6 | 17°10 | 12°24 | 25°30 | 25° 0 | 3°53 | 16°11 | M10 |
| T 11 | 19 14 59 | 18°21'28 | 3 8 35 | 20°34 | 13°20 | 19°21 | 0°58 | 18°12 | 19° 4 | 17° 9 | 12°25 | 25°30 | 24°57 | 3°59 | 16°17 | T 11 |
| W12 | 19 18 56 | 19°18'42 | 16°19 | 19°54 | 14°30 | 19°51 | 0°55 | 18°19 | 19° 2 | 17° 7 | 12°26 | 25°29 | 24°53 | 4° 6 | 16°24 | W12 |
| T 13 | 19 22 52 | 20°15'57 | 28°47 | 19°14 | 15°41 | 20°20 | 0°52 | 18°27 | 19° 0 | 17° 6 | 12°27 | 25°26 | 24°50 | 4°13 | 16°30 | T 13 |
| F 14 | 19 26 49 | 21°13'12 | 11 II 4 | 18°35 | 16°51 | 20°50 | 0°49 | 18°35 | 18°58 | 17° 5 | 12°28 | 25°20 | 24°47 | 4°20 | 16°36 | F 14 |
| S 15 | 19 30 45 | 22°10'29 | 23°12 | 17°58 | 18° 2 | 21°20 | 0°47 | 18°43 | 18°56 | 17° 4 | 12°29 | 25°11 | 24°44 | 4°26 | 16°42 | S 15 |
| S 16 | 19 34 42 | 23° 7'46 | 59513 | 17°23 | 19°13 | 21°50 | 0°44 | 18°51 | 18°55 | 17° 2 | 12°30 | 24°59 | 24°41 | 4°33 | 16°49 | S 16 |
| M17 | 19 38 38 | 24° 5'03 | 17°10 | 16°51 | 20°24 | 22°21 | 0°42 | 18°58 | 18°53 | 17° 1 | 12°32 | 24°46 | 24°38 | 4°40 | 16°55 | M17 |
| T 18 | 19 42 35 | 25° 2'21 | 29° 4 | 16°22 | 21°35 | 22°51 | 0°40 | 19° 6 | 18°51 | 17° 0 | 12°33 | 24°32 | 24°34 | 4°46 | 17° 2 | T 18 |
| W19 | 19 46 31 | 25°59'40 | 10 Ω 55 | 15°58 | 22°46 | 23°23 | 0°38 | 19°14 | 18°49 | 16°59 | 12°34 | 24°18 | 24°31 | 4°53 | 17° 9 | W19 |
| T 20 | 19 50 28 | 26°56'59 | 22°47 | 15°39 | 23°57 | 23°54 | 0°37 | 19°22 | 18°47 | 16°58 | 12°35 | 24° 6 | 24°28 | 5° 0 | 17°16 | T 20 |
| F 21 | 19 54 25 | 27°54'19 | 4 m /40 | 15°24 | 25° 8 | 24°25 | 0°35 | 19°29 | 18°46 | 16°56 | 12°36 | 23°56 | 24°25 | 5° 7 | 17°22 | F 21 |
| S 22 | 19 58 21 | 28°51'39 | 16°37 | 15°15 | 26°19 | 24°57 | 0°34 | 19°37 | 18°44 | 16°55 | 12°37 | 23°49 | 24°22 | 5°13 | 17°29 | S 22 |
| S 23 | 20 2 18 | 29°49'00 | 28°41 | 15°D11 | 27°30 | 25°29 | 0°33 | 19°45 | 18°42 | 16°54 | 12°38 | 23°45 | 24°19 | 5°20 | 17°36 | S 23 |
| M24 | 20 6 14 | 0 Ω 46'21 | 10 ≏ 56 | 15°14 | 28°41 | 26° 1 | 0°32 | 19°53 | 18°41 | 16°53 | 12°39 | 23°43 | 24°15 | 5°27 | 17°43 | M24 |
| T 25 | 20 10 11 | 1°43'43 | 23°27 | 15°22 | 29°53 | 26°34 | 0°32 | 20° 0 | 18°39 | 16°52 | 12°40 | 23°D43 | 24°12 | 5°33 | 17°50 | T 25 |
| W26 | 20 14 7 | 2°41'05 | 6 M J18 | 15°37 | 199 4 | 27° 7 | 0°31 | 20° 8 | 18°38 | 16°51 | 12°41 | 23°R43 | 24° 9 | 5°40 | 17°57 | W26 |
| T 27 | 20 18 4 | 3°38'28 | 19°34 | 15°58 | 2°16 | 27°39 | 0°31 | 20°16 | 18°36 | 16°50 | 12°42 | 23°42 | 24° 6 | 5°47 | 18° 4 | T 27 |
| F 28 | 20 22 0 | 4°35'52 | 3 √ 18 | 16°25 | 3°27 | 28°13 | 0°D31 | 20°23 | 18°35 | 16°49 | 12°43 | 23°39 | 24° 3 | 5°54 | 18°12 | F 28 |
| S 29 | 20 25 57 | 5°33'16 | 17°31 | 16°59 | 4°39 | 28°46 | 0°31 | 20°31 | 18°33 | 16°48 | 12°44 | 23°35 | 23°59 | 6° 0 | 18°19 | S 29 |
| S 30 | 20 29 54 | 6°30'41 | 2 전 11 | 17°39 | 5°50 | 29°19 | 0°31 | 20°39 | 18°32 | 16°47 | 12°44 | 23°27 | 23°56 | 6° 7 | 18°26 | S 30 |
| M31 | 20 33 50 | 7 Ω 28′07 | 17 ਰ 14 | 18925 | 7 95 2 | 29 ≏ 53 | 0 , 731 | 209346 | 18 × 30 | 16 ₮ 46 | 12 ∏ 45 | 23 Y 18 | 23 Y 53 | 6 Ω 14 | 18 M)34 | M31 |

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|------|----------|------------------|-----------------|-----------------|----------------|-----------------|----------------|--------|----------------|----------------|-----------------|----------------|----------------|---------------|-----------------|------|
| T 1 | 20 37 47 | 8 Ω 25'34 | 2≈31 | 199617 | 8914 | 0 M 27 | 0 ₮ 32 | 20954 | 18°R29 | 16°R46 | 12 П 46 | 23°R 8 | 23 Y 50 | 6 Ω 21 | 18 M p41 | T 1 |
| W 2 | 20 41 43 | 9°23'02 | 17°51 | 20°16 | 9°26 | 1° 1 | 0°33 | 21° 1 | 18 ₹ 28 | 16 ∡ 45 | 12°47 | 22 Y 58 | 23°47 | 6°27 | 18°49 | W 2 |
| T 3 | 20 45 40 | 10°20'30 | 3 ∺ 3 | 21°20 | 10°38 | 1°36 | 0°34 | 21° 9 | 18°27 | 16°44 | 12°48 | 22°49 | 23°44 | 6°34 | 18°56 | T 3 |
| F 4 | 20 49 36 | 11°18'00 | 17°55 | 22°30 | 11°49 | 2°10 | 0°35 | 21°16 | 18°26 | 16°43 | 12°49 | 22°43 | 23°40 | 6°41 | 19° 4 | F 4 |
| S 5 | 20 53 33 | 12°15'31 | 2 Y 23 | 23°46 | 13° 1 | 2°45 | 0°36 | 21°24 | 18°24 | 16°42 | 12°49 | 22°39 | 23°37 | 6°47 | 19°12 | S 5 |
| S 6 | 20 57 29 | 13°13'04 | 16°22 | 25° 7 | 14°14 | 3°20 | 0°38 | 21°31 | 18°23 | 16°42 | 12°50 | 22°38 | 23°34 | 6°54 | 19°19 | S 6 |
| M 7 | 21 1 26 | 14°10'38 | 29°53 | 26°33 | 15°26 | 3°55 | 0°39 | 21°39 | 18°22 | 16°41 | 12°51 | 22°D38 | 23°31 | 7° 1 | 19°27 | M 7 |
| T 8 | 21 5 23 | 15° 8'13 | 12 8 58 | 28° 4 | 16°38 | 4°30 | 0°41 | 21°46 | 18°21 | 16°40 | 12°52 | 22°R38 | 23°28 | 7° 8 | 19°35 | T 8 |
| W 9 | 21 9 19 | 16° 5'50 | 25°41 | 29°40 | 17°50 | 5° 5 | 0°43 | 21°53 | 18°20 | 16°40 | 12°52 | 22°38 | 23°24 | 7°14 | 19°43 | W 9 |
| T 10 | 21 13 16 | 17° 3'29 | 8 I I 6 | 1 Ω 20 | 19° 2 | 5°41 | 0°45 | 22° 1 | 18°19 | 16°39 | 12°53 | 22°36 | 23°21 | 7°21 | 19°51 | T 10 |
| F 11 | 21 17 12 | 18° 1'09 | 20°17 | 3° 3 | 20°15 | 6°17 | 0°48 | 22° 8 | 18°19 | 16°38 | 12°54 | 22°31 | 23°18 | 7°28 | 19°59 | F 11 |
| S 12 | 21 21 9 | 18°58'51 | 29519 | 4°50 | 21°27 | 6°53 | 0°50 | 22°15 | 18°18 | 16°38 | 12°55 | 22°25 | 23°15 | 7°34 | 20° 7 | S 12 |
| S 13 | 21 25 5 | 19°56'34 | 14°15 | 6°40 | 22°40 | 7°29 | 0°53 | 22°23 | 18°17 | 16°37 | 12°55 | 22°15 | 23°12 | 7°41 | 20°15 | S 13 |
| M14 | 21 29 2 | 20°54'19 | 26° 7 | 8°32 | 23°52 | 8° 5 | 0°56 | 22°30 | 18°16 | 16°37 | 12°56 | 22° 5 | 23° 9 | 7°48 | 20°23 | M14 |
| T 15 | 21 32 58 | 21°52'05 | 7 Ω 59 | 10°27 | 25° 5 | 8°42 | 0°59 | 22°37 | 18°16 | 16°36 | 12°56 | 21°53 | 23° 5 | 7°55 | 20°31 | T 15 |
| W16 | 21 36 55 | 22°49'52 | 19°51 | 12°23 | 26°18 | 9°19 | 1° 3 | 22°44 | 18°15 | 16°36 | 12°57 | 21°42 | 23° 2 | 8° 1 | 20°39 | W16 |
| T 17 | 21 40 52 | 23°47'41 | 1 M 46 | 14°21 | 27°30 | 9°55 | 1° 6 | 22°51 | 18°15 | 16°36 | 12°58 | 21°32 | 22°59 | 8° 8 | 20°47 | T 17 |
| F 18 | 21 44 48 | 24°45'31 | 13°44 | 16°20 | 28°43 | 10°32 | 1°10 | 22°58 | 18°14 | 16°35 | 12°58 | 21°24 | 22°56 | 8°15 | 20°55 | F 18 |
| S 19 | 21 48 45 | 25°43'23 | 25°48 | 18°19 | 29°56 | 11°10 | 1°13 | 23° 5 | 18°14 | 16°35 | 12°59 | 21°18 | 22°53 | 8°21 | 21° 4 | S 19 |
| S 20 | 21 52 41 | 26°41'16 | 8 亞 0 | 20°19 | 1 Ω 9 | 11°47 | 1°17 | 23°12 | 18°13 | 16°35 | 12°59 | 21°15 | 22°50 | 8°28 | 21°12 | S 20 |
| M21 | 21 56 38 | 27°39'11 | 20°22 | 22°18 | 2°22 | 12°24 | 1°22 | 23°19 | 18°13 | 16°34 | 13° 0 | 21°D14 | 22°46 | 8°35 | 21°20 | M21 |
| T 22 | 22 0 34 | 28°37'06 | 2 M 57 | 24°18 | 3°35 | 13° 2 | 1°26 | 23°26 | 18°12 | 16°34 | 13° 0 | 21°15 | 22°43 | 8°42 | 21°29 | T 22 |
| W23 | 22 4 31 | 29°35'03 | 15°50 | 26°17 | 4°48 | 13°40 | 1°30 | 23°33 | 18°12 | 16°34 | 13° 1 | 21°16 | 22°40 | 8°48 | 21°37 | W23 |
| T 24 | 22 8 27 | 0 mp 33'02 | 29° 3 | 28°16 | 6° 1 | 14°18 | 1°35 | 23°40 | 18°12 | 16°34 | 13° 1 | 21°R16 | 22°37 | 8°55 | 21°45 | T 24 |
| F 25 | 22 12 24 | 1°31'02 | 12 × 740 | 0 Mp 14 | 7°14 | 14°56 | 1°40 | 23°46 | 18°12 | 16°34 | 13° 1 | 21°16 | 22°34 | 9° 2 | 21°54 | F 25 |
| S 26 | 22 16 21 | 2°29'03 | 26°43 | 2°11 | 8°27 | 15°34 | 1°45 | 23°53 | 18°12 | 16°34 | 13° 2 | 21°13 | 22°30 | 9° 9 | 22° 2 | S 26 |
| S 27 | 22 20 17 | 3°27'05 | 11 궁 10 | 4° 7 | 9°40 | 16°13 | 1°50 | 24° 0 | 18°12 | 16°33 | 13° 2 | 21° 9 | 22°27 | 9°15 | 22°11 | S 27 |
| M28 | 22 24 14 | 4°25'09 | 25°59 | 6° 2 | 10°53 | 16°51 | 1°55 | 24° 6 | 18°D12 | 16°33 | 13° 3 | 21° 3 | 22°24 | 9°22 | 22°19 | M28 |
| T 29 | 22 28 10 | 5°23'15 | 11 ≈ 3 | 7°56 | 12° 7 | 17°30 | 2° 1 | 24°13 | 18°12 | 16°D33 | 13° 3 | 20°56 | 22°21 | 9°29 | 22°28 | T 29 |
| W30 | 22 32 7 | 6°21'22 | 26°13 | 9°49 | 13°20 | 18° 9 | 2° 6 | 24°19 | 18°12 | 16°33 | 13° 3 | 20°50 | 22°18 | 9°35 | 22°36 | W30 |
| T 31 | 22 36 3 | 7 m 19'30 | 11 米 19 | 11 M p41 | 14 Ω 33 | 18 M .48 | 2 ,7 12 | 249526 | 18 × 12 | 16 ₹ 33 | 13 I I 3 | 20 Υ 44 | 22 Y 15 | 9 Ω 42 | 22 M 45 | T 31 |

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SEPTEMBER 1651 GC 00:00 UT

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| F 1 | 22 40 0 | 8 m) 17'40 | 26) 12 | 13 m 32 | 15 Ω 47 | 19 M 27 | 2 ₹ 18 | 24932 | 18 × 12 | 16 ₹ 34 | 13 I I 4 | 20°R40 | 22 Y 11 | 9 Ω 49 | 22 m 54 | F 1 |
| S 2 | 22 43 56 | 9°15'52 | 10 Y 43 | 15°21 | 17° 0 | 20° 6 | 2°24 | 24°39 | 18°12 | 16°34 | 13° 4 | 20 Y 38 | 22° 8 | 9°56 | 23° 2 | S 2 |
| S 3 | 22 47 53 | 10°14'06 | 24°49 | 17°10 | 18°14 | 20°45 | 2°30 | 24°45 | 18°13 | 16°34 | 13° 4 | 20°D38 | 22° 5 | 10° 2 | 23°11 | S 3 |
| M 4 | 22 51 50 | 11°12'23 | 8826 | 18°57 | 19°28 | 21°25 | 2°36 | 24°51 | 18°13 | 16°34 | 13° 4 | 20°39 | 22° 2 | 10° 9 | 23°20 | M 4 |
| T 5 | 22 55 46 | 12°10'41 | 21°37 | 20°43 | 20°41 | 22° 4 | 2°43 | 24°57 | 18°13 | 16°34 | 13° 5 | 20°40 | 21°59 | 10°16 | 23°28 | T 5 |
| W 6 | 22 59 43 | 13° 9'01 | 4 Ⅱ 24 | 22°28 | 21°55 | 22°44 | 2°50 | 25° 3 | 18°14 | 16°34 | 13° 5 | 20°41 | 21°56 | 10°22 | 23°37 | W 6 |
| T 7 | 23 3 39 | 14° 7'24 | 16°51 | 24°11 | 23° 9 | 23°24 | 2°56 | 25° 9 | 18°14 | 16°35 | 13° 5 | 20°R42 | 21°52 | 10°29 | 23°46 | T 7 |
| F 8 | 23 7 36 | 15° 5'48 | 29° 3 | 25°54 | 24°23 | 24° 4 | 3° 3 | 25°15 | 18°15 | 16°35 | 13° 5 | 20°41 | 21°49 | 10°36 | 23°54 | F 8 |
| S 9 | 23 11 32 | 16° 4'15 | 1199 4 | 27°36 | 25°36 | 24°44 | 3°10 | 25°21 | 18°16 | 16°35 | 13° 5 | 20°38 | 21°46 | 10°43 | 24° 3 | S 9 |
| S 10 | 23 15 29 | 17° 2'44 | 22°58 | 29°16 | 26°50 | 25°24 | 3°18 | 25°27 | 18°16 | 16°36 | 13° 5 | 20°34 | 21°43 | 10°49 | 24°12 | S 10 |
| M11 | 23 19 25 | 18° 1'15 | 4 Ω 49 | 0 ჲ 56 | 28° 4 | 26° 5 | 3°25 | 25°33 | 18°17 | 16°36 | 13° 5 | 20°29 | 21°40 | 10°56 | 24°21 | M11 |
| T 12 | 23 23 22 | 18°59'48 | 16°41 | 2°34 | 29°18 | 26°45 | 3°32 | 25°39 | 18°18 | 16°37 | 13° 5 | 20°23 | 21°36 | 11° 3 | 24°30 | T 12 |
| W13 | 23 27 19 | 19°58'23 | 28°36 | 4°11 | 0 Mp 32 | 27°26 | 3°40 | 25°44 | 18°18 | 16°37 | 13°R 5 | 20°18 | 21°33 | 11° 9 | 24°38 | W13 |
| T 14 | 23 31 15 | 20°57'00 | 10 m)37 | 5°48 | 1°46 | 28° 7 | 3°48 | 25°50 | 18°19 | 16°38 | 13° 5 | 20°13 | 21°30 | 11°16 | 24°47 | T 14 |
| F 15 S 16 | 23 35 12 23 39 8 | 21°55'39 22°54'20 | 22°44 5 Ω 0 | 7°23 8°57 | 3° 0 4°15 | 28°48 29°29 | 3°56 4° 4 | 25°55 26° 1 | 18°20 18°21 | 16°38 16°39 | 13° 5 13° 5 | 20° 9 20° 6 | 21°27 21°24 | 11°23 11°30 | 24°56 25° 5 | F 15 S 16 |
| | | | | | | | | | | | | | | | | |
| S 17 | 23 43 5 | 23°53'03 | 17°26 | 10°31 | 5°29 | 0 ₮ 10 | 4°12 | 26° 6 | 18°22 | 16°39 | 13° 5 | 20°D 6 | 21°21 | 11°36 | 25°14 | S 17 |
| M18 | 23 47 1 | 24°51'48 | OM 3 | 12° 3 | 6°43 | 0°51 | 4°20 | 26°11 | 18°23 | 16°40 | 13° 5 | 20° 6 | 21°17 | 11°43 | 25°22 | M18 |
| T 19 | 23 50 58 | 25°50'34 | 12°52 | 13°34 | 7°57 | 1°32 | 4°29 | 26°17 | 18°24 | 16°41 | 13° 5 | 20° 7 | 21°14 | 11°50 | 25°31 | T 19 |
| W20 T 21 | 23 54 54 23 58 51 | 26°49'23 27°48'13 | 25°56 9 х 16 | 15° 5 16°34 | 9°12 10°26 | 2°14 2°55 | 4°37 4°46 | 26°22 26°27 | 18°26 18°27 | 16°41 16°42 | 13° 5 13° 5 | 20° 9 20°10 | 21°11 21° 8 | 11°56 12° 3 | 25°40 25°49 | W20 T 21 |
| F 22 | 0 2 48 | 27 48 13 28°47'05 | 22°53 | 18° 3 | 10°20 11°40 | 3°37 | 4°55 | 26°32 | 18°28 | 16°43 | 13° 4 | 20°R11 | 21° 5 | 12°10 | 25°58 | F 22 |
| S 23 | 0 6 44 | 29°45'59 | 6 공 49 | 19°30 | 12°55 | 4°19 | 5° 4 | 26°37 | 18°29 | 16°44 | 13° 4 | 20°11 | 21° 2 | 12°17 | 26° 6 | S 23 |
| | | | | | | | - | | | | _ | - | | | | |
| S 24 | 0 10 41 | 0 ≏ 44'55 | 21° 2 | 20°56 | 14° 9 | 5° 1 | 5°13 | 26°41 | 18°31 | 16°45 | 13° 4 | 20°10 | 20°58 | 12°23 | 26°15 | S 24 |
| M25 T 26 | 0 14 37 0 18 34 | 1°43'52 2°42'51 | 5 ≈ 32 20°13 | 22°22 23°46 | 15°24 16°38 | 5°43 6°25 | 5°22 5°31 | 26°46 26°51 | 18°32 18°34 | 16°45 16°46 | 13° 4 13° 3 | 20° 8 20° 6 | 20°55 20°52 | 12°30 12°37 | 26°24 26°33 | M25 T 26 |
| W27 | 0 18 34 0 22 30 | 3°41'52 | 5)(0 | 25°10 | 10 38 17°53 | 7° 7 | 5°40 | 26°55 | 18°35 | 16°47 | 13° 3 | 20° 4 | 20°49 | 12°43 | 26°42 | W27 |
| T 28 | 0 26 27 | 4°40'54 | 19°45 | 26°32 | 19° 7 | 7°49 | 5°50 | 27° 0 | 18°37 | 16°48 | 13° 3 | 20° 2 | 20°46 | 12°50 | 26°50 | T 28 |
| F 29 | 0 30 23 | 5°39'59 | 4Υ23 | 27°53 | 20°22 | 8°31 | 5°59 | 27° 4 | 18°38 | 16°49 | 13° 2 | 20° 1 | 20°42 | 12°57 | 26°59 | F 29 |
| S 30 | 0 34 20 | 6 ₾ 39'05 | 18 Y 45 | 29 ₾ 13 | 21 Mp 36 | 9 ₹ 14 | 6 ₹ 9 | 2795 9 | 18 × 40 | 16 × 750 | 13 I I 2 | 20°D 0 | 20 Υ 39 | 13 Ω 4 | 27 m/8 | S 30 |

Delta T = 42.15 sec Greg. Calendar

OCTOBER 1651 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)f(| ¥ | В | ₽. | ß | Ç | ę, | Day |
|------|---------|------------------|----------------|----------------|---------------|----------------|-----------------|--------|-----------------|-----------------|---------------|----------------|----------------|----------------|----------------|------|
| S 1 | 0 38 16 | 7 ≙ 38'14 | 2 8 46 | 0MJ32 | 22 Mp 51 | 9 .7 57 | 6 ₹ 19 | 279513 | 18 × 42 | 16 × 751 | 13°R 2 | 20 ° 1 | 20 Y 36 | 13 Ω 10 | 27 m 17 | S 1 |
| M 2 | 0 42 13 | 8°37'25 | 16°25 | 1°49 | 24° 6 | 10°39 | 6°29 | 27°17 | 18°43 | 16°52 | 13 I 1 | 20° 1 | 20°33 | 13°17 | 27°25 | M 2 |
| T 3 | 0 46 10 | 9°36'38 | 29°39 | 3° 5 | 25°21 | 11°22 | 6°39 | 27°21 | 18°45 | 16°53 | 13° 1 | 20° 2 | 20°30 | 13°24 | 27°34 | T 3 |
| W 4 | 0 50 6 | 10°35'54 | 12 Ⅲ 31 | 4°20 | 26°35 | 12° 5 | 6°49 | 27°25 | 18°47 | 16°55 | 13° 0 | 20° 3 | 20°27 | 13°30 | 27°43 | W 4 |
| T 5 | 0 54 3 | 11°35'12 | 25° 2 | 5°33 | 27°50 | 12°48 | 6°59 | 27°29 | 18°49 | 16°56 | 13° 0 | 20° 4 | 20°23 | 13°37 | 27°52 | T 5 |
| F 6 | 0 57 59 | 12°34'32 | 79916 | 6°45 | 29° 5 | 13°31 | 7° 9 | 27°33 | 18°51 | 16°57 | 12°59 | 20°R 4 | 20°20 | 13°44 | 28° 0 | F 6 |
| S 7 | 1 1 56 | 13°33'55 | 19°19 | 7°55 | 0 ჲ 20 | 14°14 | 7°20 | 27°36 | 18°53 | 16°58 | 12°59 | 20° 4 | 20°17 | 13°51 | 28° 9 | S 7 |
| S 8 | 1 5 52 | 14°33'20 | 1Ω14 | 9° 3 | 1°35 | 14°57 | 7°30 | 27°40 | 18°55 | 16°59 | 12°58 | 20° 4 | 20°14 | 13°57 | 28°18 | S 8 |
| M 9 | 1 9 49 | 15°32'47 | 13° 5 | 10° 8 | 2°50 | 15°40 | 7°41 | 27°43 | 18°57 | 17° 1 | 12°58 | 20° 3 | 20°11 | 14° 4 | 28°26 | M 9 |
| T 10 | 1 13 45 | 16°32'16 | 24°58 | 11°12 | 4° 5 | 16°24 | 7°52 | 27°47 | 18°59 | 17° 2 | 12°57 | 20° 3 | 20° 7 | 14°11 | 28°35 | T 10 |
| W11 | 1 17 42 | 17°31'48 | 6 m 56 | 12°13 | 5°19 | 17° 7 | 8° 2 | 27°50 | 19° 1 | 17° 3 | 12°57 | 20° 3 | 20° 4 | 14°17 | 28°43 | W11 |
| T 12 | 1 21 39 | 18°31'22 | 19° 3 | 13°12 | 6°34 | 17°51 | 8°13 | 27°53 | 19° 3 | 17° 5 | 12°56 | 20° 2 | 20° 1 | 14°24 | 28°52 | T 12 |
| F 13 | 1 25 35 | 19°30'58 | 1 ≏ 20 | 14° 7 | 7°49 | 18°35 | 8°24 | 27°56 | 19° 5 | 17° 6 | 12°56 | 20° 2 | 19°58 | 14°31 | 29° 0 | F 13 |
| S 14 | 1 29 32 | 20°30'36 | 13°51 | 14°59 | 9° 5 | 19°18 | 8°35 | 27°59 | 19° 8 | 17° 7 | 12°55 | 20° 2 | 19°55 | 14°37 | 29° 9 | S 14 |
| S 15 | 1 33 28 | 21°30'16 | 26°35 | 15°48 | 10°20 | 20° 2 | 8°47 | 28° 2 | 19°10 | 17° 9 | 12°54 | 20° 2 | 19°52 | 14°44 | 29°17 | S 15 |
| M16 | 1 37 25 | 22°29'58 | 9 M .33 | 16°33 | 11°35 | 20°46 | 8°58 | 28° 5 | 19°12 | 17°10 | 12°54 | 20° 2 | 19°48 | 14°51 | 29°26 | M16 |
| T 17 | 1 41 21 | 23°29'42 | 22°45 | 17°13 | 12°50 | 21°30 | 9° 9 | 28° 8 | 19°15 | 17°12 | 12°53 | 20° 2 | 19°45 | 14°58 | 29°34 | T 17 |
| W18 | 1 45 18 | 24°29'28 | 6 ₹ 11 | 17°49 | 14° 5 | 22°14 | 9°20 | 28°10 | 19°17 | 17°13 | 12°52 | 20° 1 | 19°42 | 15° 4 | 29°42 | W18 |
| T 19 | 1 49 14 | 25°29'16 | 19°49 | 18°19 | 15°20 | 22°58 | 9°32 | 28°13 | 19°20 | 17°15 | 12°52 | 20° 1 | 19°39 | 15°11 | 29°51 | T 19 |
| F 20 | 1 53 11 | 26°29'06 | 3 る 38 | 18°44 | 16°35 | 23°43 | 9°44 | 28°15 | 19°22 | 17°17 | 12°51 | 20° 0 | 19°36 | 15°18 | 29°59 | F 20 |
| S 21 | 1 57 8 | 27°28'57 | 17°37 | 19° 2 | 17°50 | 24°27 | 9°55 | 28°17 | 19°25 | 17°18 | 12°50 | 20° 0 | 19°33 | 15°24 | 0요 7 | S 21 |
| S 22 | 2 1 4 | 28°28'51 | 1≈45 | 19°13 | 19° 5 | 25°11 | 10° 7 | 28°19 | 19°27 | 17°20 | 12°49 | 20°D 0 | 19°29 | 15°31 | 0°16 | S 22 |
| M23 | 2 5 1 | 29°28'45 | 15°59 | 19°R16 | 20°21 | 25°56 | 10°19 | 28°22 | 19°30 | 17°21 | 12°48 | 20° 0 | 19°26 | 15°38 | 0°24 | M23 |
| T 24 | 2 8 57 | 0M28'41 | 0) €17 | 19°11 | 21°36 | 26°40 | 10°30 | 28°23 | 19°32 | 17°23 | 12°48 | 20° 1 | 19°23 | 15°45 | 0°32 | T 24 |
| W25 | 2 12 54 | 1°28'39 | 14°37 | 18°57 | 22°51 | 27°25 | 10°42 | 28°25 | 19°35 | 17°25 | 12°47 | 20° 2 | 19°20 | 15°51 | 0°40 | W25 |
| T 26 | 2 16 50 | 2°28'39 | 28°54 | 18°35 | 24° 6 | 28°10 | 10°54 | 28°27 | 19°38 | 17°27 | 12°46 | 20° 3 | 19°17 | 15°58 | 0°48 | T 26 |
| F 27 | 2 20 47 | 3°28'40 | 13 ° 4 | 18° 2 | 25°22 | 28°54 | 11° 6 | 28°29 | 19°41 | 17°28 | 12°45 | 20°R 3 | 19°13 | 16° 5 | 0°56 | F 27 |
| S 28 | 2 24 43 | 4°28'43 | 27° 5 | 17°21 | 26°37 | 29°39 | 11°19 | 28°30 | 19°43 | 17°30 | 12°44 | 20° 3 | 19°10 | 16°11 | 1° 4 | S 28 |
| S 29 | 2 28 40 | 5°28'48 | 10850 | 16°30 | 27°52 | 0 ප 24 | 11°31 | 28°32 | 19°46 | 17°32 | 12°43 | 20° 2 | 19° 7 | 16°18 | 1°12 | S 29 |
| M30 | 2 32 37 | 6°28'54 | 24°19 | 15°30 | 29° 7 | 1° 9 | 11°43 | 28°33 | 19°49 | 17°34 | 12°43 | 20° 1 | 19° 4 | 16°25 | 1°20 | M30 |
| T 31 | 2 36 33 | 7 M 29'03 | 7 Ⅱ 29 | 14 M 23 | 0 M 23 | 1 る 54 | 11 × 755 | 28934 | 19 × 752 | 17 . ₹35 | 12∏42 | 19 Y 58 | 19 Ƴ 1 | 16 Ω 32 | 1 ≏ 28 | T 31 |

Delta T = 42.09 sec

NOVEMBER 1651 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)∤(| ¥ | В | P | Ω | ţ | o k | Day |
|------|---------|-------------------|----------------------|-----------------|----------------------------|----------------|----------------|--------|-----------------|-----------------|----------------|----------------|----------------|----------------|---------------|------|
| W 1 | 2 40 30 | 8ML29'14 | 20耳19 | 13°R10 | 1 M .38 | 2 る 39 | 12 ×7 8 | 28935 | 19 ∡ 755 | 17 ∡ 737 | 12°R41 | 19°R56 | 18 Y 58 | 16 Ω 38 | 1 ≏ 36 | W 1 |
| T 2 | 2 44 26 | 9°29'27 | 2952 | 11 M 52 | 2°53 | 3°24 | 12°20 | 28°36 | 19°58 | 17°39 | 12∏40 | 19 Y 53 | 18°54 | 16°45 | 1°43 | T 2 |
| F 3 | 2 48 23 | 10°29'41 | 15° 8 | 10°33 | 4° 9 | 4°10 | 12°33 | 28°37 | 20° 1 | 17°41 | 12°39 | 19°50 | 18°51 | 16°52 | 1°51 | F 3 |
| S 4 | 2 52 19 | 11°29'58 | 27°12 | 9°14 | 5°24 | 4°55 | 12°45 | 28°38 | 20° 4 | 17°43 | 12°38 | 19°48 | 18°48 | 16°58 | 1°59 | S 4 |
| S 5 | 2 56 16 | 12°30'17 | 9 Ω 7 | 7°59 | 6°39 | 5°40 | 12°58 | 28°38 | 20° 7 | 17°45 | 12°37 | 19°D47 | 18°45 | 17° 5 | 2° 6 | S 5 |
| M 6 | 3 0 12 | 13°30'38 | 20°59 | 6°49 | 7°55 | 6°25 | 13°11 | 28°39 | 20°10 | 17°47 | 12°36 | 19°48 | 18°42 | 17°12 | 2°14 | M 6 |
| T 7 | 3 4 9 | 14°31'00 | 2 m 52 | 5°47 | 9°10 | 7°11 | 13°23 | 28°39 | 20°13 | 17°49 | 12°35 | 19°49 | 18°39 | 17°18 | 2°21 | T 7 |
| W 8 | 3 8 6 | 15°31'25 | 14°50 | 4°54 | 10°25 | 7°56 | 13°36 | 28°39 | 20°16 | 17°51 | 12°34 | 19°50 | 18°35 | 17°25 | 2°29 | W 8 |
| T 9 | 3 12 2 | 16°31'51 | 27° 0 | 4°12 | 11°41 | 8°42 | 13°49 | 28°40 | 20°19 | 17°53 | 12°33 | 19°52 | 18°32 | 17°32 | 2°36 | T 9 |
| F 10 | 3 15 59 | 17°32'19 | 9 <u>Ω</u> 23 | 3°41 | 12°56 | 9°28 | 14° 2 | 28°R40 | 20°23 | 17°55 | 12°32 | 19°54 | 18°29 | 17°39 | 2°43 | F 10 |
| S 11 | 3 19 55 | 18°32'49 | 22° 5 | 3°22 | 14°12 | 10°13 | 14°15 | 28°40 | 20°26 | 17°57 | 12°31 | 19°R54 | 18°26 | 17°45 | 2°50 | S 11 |
| S 12 | 3 23 52 | 19°33'21 | 5M 5 | 3°D15 | 15°27 | 10°59 | 14°28 | 28°39 | 20°29 | 17°59 | 12°30 | 19°53 | 18°23 | 17°52 | 2°58 | S 12 |
| M13 | 3 27 48 | 20°33'55 | 18°25 | 3°19 | 16°43 | 11°45 | 14°41 | 28°39 | 20°32 | 18° 1 | 12°29 | 19°50 | 18°19 | 17°59 | 3° 5 | M13 |
| T 14 | 3 31 45 | 21°34'30 | 2 √ 4 | 3°34 | 17°58 | 12°30 | 14°54 | 28°39 | 20°36 | 18° 3 | 12°28 | 19°46 | 18°16 | 18° 5 | 3°12 | T 14 |
| W15 | 3 35 41 | 22°35'06 | 1 <u>5</u> °58 | 3°58 | 19°13 | 13°16 | 15° 7 | 28°38 | 20°39 | 18° 5 | 12°27 | 19°41 | 18°13 | 18°12 | 3°19 | W15 |
| T 16 | 3 39 38 | 23°35'44 | 0중 4 | 4°31 | 20°29 | 14° 2 | 15°20 | 28°38 | 20°42 | 18° 7 | 12°26 | 19°36 | 18°10 | 18°19 | 3°26 | T 16 |
| F 17 | 3 43 35 | 24°36'24 | 14°17 | 5°12 | 21°44 | 14°48 | 15°33 | 28°37 | 20°45 | 18° 9 | 12°24 | 19°31 | 18° 7 | 18°26 | 3°32 | F 17 |
| S 18 | 3 47 31 | 25°37'04 | 28°33 | 6° 0 | 23° 0 | 15°34 | 15°46 | 28°36 | 20°49 | 18°11 | 12°23 | 19°27 | 18° 4 | 18°32 | 3°39 | S 18 |
| S 19 | 3 51 28 | 26°37'46 | 12 ≈ 48 | 6°54 | 24°15 | 16°20 | 16° 0 | 28°35 | 20°52 | 18°13 | 12°22 | 19°24 | 18° 0 | 18°39 | 3°46 | S 19 |
| M20 | 3 55 24 | 27°38'29 | 26°59 | 7°53 | 25°31 | 17° 6 | 16°13 | 28°34 | 20°56 | 18°16 | 12°21 | 19°D23 | 17°57 | 18°46 | 3°53 | M20 |
| T 21 | 3 59 21 | 28°39'12 | 11 米 5 | 8°58 | 26°46 | 17°53 | 16°26 | 28°33 | 20°59 | 18°18 | 12°20 | 19°24 | 17°54 | 18°52 | 3°59 | T 21 |
| W22 | 4 3 17 | 29°39'57 | 25° 3 | 10° 6 | 28° 2 | 18°39 | 16°40 | 28°32 | 21° 2 | 18°20 | 12°19 | 19°25 | 17°51 | 18°59 | 4° 6 | W22 |
| T 23 | 4 7 14 | 0 ∡ 740'42 | 8 Υ 54 | 11°18 | 29°17 | 19°25 | 16°53 | 28°30 | 21° 6 | 18°22 | 12°18 | 19°27 | 17°48 | 19° 6 | 4°12 | T 23 |
| F 24 | 4 11 10 | 1°41'29 | 22°36 | 12°33 | 0 х ⁷ 33 | 20°11 | 17° 6 | 28°29 | 21° 9 | 18°24 | 12°17 | 19°R27 | 17°45 | 19°12 | 4°18 | F 24 |
| S 25 | 4 15 7 | 2°42'17 | 6 8 9 | 13°51 | 1°48 | 20°57 | 17°20 | 28°27 | 21°13 | 18°26 | 12°15 | 19°26 | 17°41 | 19°19 | 4°24 | S 25 |
| S 26 | 4 19 4 | 3°43'05 | 19°31 | 15°11 | 3° 4 | 21°44 | 17°33 | 28°25 | 21°16 | 18°29 | 12°14 | 19°22 | 17°38 | 19°26 | 4°31 | S 26 |
| M27 | 4 23 0 | 4°43'55 | 2∏40 | 16°32 | 4°19 | 22°30 | 17°47 | 28°23 | 21°20 | 18°31 | 12°13 | 19°16 | 17°35 | 19°33 | 4°37 | M27 |
| T 28 | 4 26 57 | 5°44'47 | 15°37 | 17°56 | 5°35 | 23°17 | 18° 0 | 28°22 | 21°23 | 18°33 | 12°12 | 19° 9 | 17°32 | 19°39 | 4°43 | T 28 |
| W29 | 4 30 53 | 6°45'39 | 28°18 | 19°20 | 6°50 | 24° 3 | 18°14 | 28°19 | 21°27 | 18°35 | 12°11 | 19° 0 | 17°29 | 19°46 | 4°49 | W29 |
| T 30 | 4 34 50 | 7 . ₹46'33 | 109546 | 20 M .46 | 8 才 6 | 24 궁 49 | 18 ∡ 27 | 28917 | 21 ~ 31 | 18 ₮ 38 | 12 Ⅱ 10 | 18 ⋎ 50 | 17 ℃ 25 | 19 Ω 53 | 4 ≏ 54 | T 30 |

Delta T = 42.03 sec

Greg. Calendar

| DECEMBER 4614 00 | 00 00 11 |
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| DECEMBER 1651 GC | 00:00 UT |

| Day | Sid.t | \odot | D | φ | φ | o ⁷ | 4 | ħ |)ұ(| ¥ | P 2 | ß | Ω | Ç | Š | Day |
|------|---------|-------------------|----------------|----------------|----------------|----------------|----------------|--------|----------------|-----------------|-----------------|----------------|----------------|----------------|--------------|------|
| F 1 | 4 38 46 | 8 ∡ 747'27 | 2399 0 | 22 M 13 | 9 ∡ 121 | 25 궁 36 | 18 × 41 | 28°R15 | 21 × 34 | 18 × 740 | 12°R 9 | 18°R41 | 17 Y 22 | 19 Ω 59 | 5 ♀ 0 | F 1 |
| S 2 | 4 42 43 | 9°48'23 | 5 Ω 2 | 23°41 | 10°37 | 26°22 | 18°55 | 289513 | 21°38 | 18°42 | 12 II 7 | 18 Y 34 | 17°19 | 20° 6 | 5° 6 | S 2 |
| S 3 | 4 46 40 | 10°49'20 | 16°57 | 25° 9 | 11°52 | 27° 9 | 19° 8 | 28°10 | 21°41 | 18°44 | 12° 6 | 18°29 | 17°16 | 20°13 | 5°11 | S 3 |
| M 4 | 4 50 36 | 11°50'18 | 28°47 | 26°38 | 13° 7 | 27°56 | 19°22 | 28° 8 | 21°45 | 18°47 | 12° 5 | 18°25 | 17°13 | 20°20 | 5°17 | M 4 |
| T 5 | 4 54 33 | 12°51'18 | 10 m 38 | 28° 8 | 14°23 | 28°42 | 19°36 | 28° 5 | 21°48 | 18°49 | 12° 4 | 18°D24 | 17°10 | 20°26 | 5°22 | T 5 |
| W 6 | 4 58 29 | 13°52'18 | 22°35 | 29°38 | 15°38 | 29°29 | 19°49 | 28° 2 | 21°52 | 18°51 | 12° 3 | 18°24 | 17° 6 | 20°33 | 5°27 | W 6 |
| T 7 | 5 2 26 | 14°53'20 | 4 ≏ 42 | 1 才 8 | 16°54 | 0≈15 | 20° 3 | 27°59 | 21°56 | 18°53 | 12° 2 | 18°25 | 17° 3 | 20°40 | 5°33 | T 7 |
| F 8 | 5 6 22 | 15°54'22 | 17° 6 | 2°39 | 18° 9 | 1° 2 | 20°17 | 27°57 | 21°59 | 18°56 | 12° 0 | 18°R26 | 17° 0 | 20°46 | 5°38 | F 8 |
| S 9 | 5 10 19 | 16°55'26 | 29°51 | 4°10 | 19°25 | 1°49 | 20°30 | 27°53 | 22° 3 | 18°58 | 11°59 | 18°25 | 16°57 | 20°53 | 5°43 | S 9 |
| S 10 | 5 14 15 | 17°56'31 | 12 M 59 | 5°42 | 20°40 | 2°36 | 20°44 | 27°50 | 22° 7 | 19° 0 | 11°58 | 18°23 | 16°54 | 21° 0 | 5°48 | S 10 |
| M11 | 5 18 12 | 18°57'37 | 26°33 | 7°13 | 21°56 | 3°22 | 20°58 | 27°47 | 22°10 | 19° 2 | 11°57 | 18°17 | 16°51 | 21° 6 | 5°52 | M11 |
| T 12 | 5 22 9 | 19°58'43 | 10 ₮ 32 | 8°45 | 23°11 | 4° 9 | 21°11 | 27°44 | 22°14 | 19° 5 | 11°56 | 18° 9 | 16°47 | 21°13 | 5°57 | T 12 |
| W13 | 5 26 5 | 20°59'50 | 24°52 | 10°17 | 24°27 | 4°56 | 21°25 | 27°40 | 22°17 | 19° 7 | 11°55 | 18° 0 | 16°44 | 21°20 | 6° 2 | W13 |
| T 14 | 5 30 2 | 22° 0'58 | 9 ප 27 | 11°50 | 25°42 | 5°43 | 21°39 | 27°37 | 22°21 | 19° 9 | 11°54 | 17°49 | 16°41 | 21°27 | 6° 6 | T 14 |
| F 15 | 5 33 58 | 23° 2'06 | 24°10 | 13°22 | 26°58 | 6°30 | 21°53 | 27°33 | 22°25 | 19°11 | 11°52 | 17°39 | 16°38 | 21°33 | 6°11 | F 15 |
| S 16 | 5 37 55 | 24° 3'15 | 8≈52 | 14°55 | 28°13 | 7°16 | 22° 6 | 27°30 | 22°28 | 19°14 | 11°51 | 17°30 | 16°35 | 21°40 | 6°15 | S 16 |
| S 17 | 5 41 51 | 25° 4'24 | 23°27 | 16°27 | 29°29 | 8° 3 | 22°20 | 27°26 | 22°32 | 19°16 | 11°50 | 17°24 | 16°31 | 21°47 | 6°19 | S 17 |
| M18 | 5 45 48 | 26° 5'33 | 7 ∺ 49 | 18° 0 | 0 궁 44 | 8°50 | 22°34 | 27°22 | 22°36 | 19°18 | 11°49 | 17°20 | 16°28 | 21°53 | 6°23 | M18 |
| T 19 | 5 49 44 | 27° 6'41 | 21°57 | 19°34 | 2° 0 | 9°37 | 22°47 | 27°18 | 22°39 | 19°20 | 11°48 | 17°D19 | 16°25 | 22° 0 | 6°27 | T 19 |
| W20 | 5 53 41 | 28° 7'50 | 5 Υ 48 | 21° 7 | 3°15 | 10°24 | 23° 1 | 27°14 | 22°43 | 19°23 | 11°47 | 17°19 | 16°22 | 22° 7 | 6°31 | W20 |
| T 21 | 5 57 38 | 2 <u>9°</u> 8'59 | 19°24 | 22°41 | 4°31 | 11°11 | 23°15 | 27°10 | 22°46 | 19°25 | 11°46 | 17°R19 | 16°19 | 22°13 | 6°35 | T 21 |
| F 22 | 6 1 34 | 0 ට 10'08 | 2 8 46 | 24°15 | 5°46 | 11°58 | 23°29 | 27° 6 | 22°50 | 19°27 | 11°45 | 17°18 | 16°16 | 22°20 | 6°38 | F 22 |
| S 23 | 6 5 31 | 1°11'17 | 15°56 | 25°49 | 7° 2 | 12°45 | 23°42 | 27° 2 | 22°54 | 19°29 | 11°44 | 17°15 | 16°12 | 22°27 | 6°42 | S 23 |
| S 24 | 6 9 27 | 2°12'27 | 28°55 | 27°23 | 8°17 | 13°32 | 23°56 | 26°58 | 22°57 | 19°32 | 11°42 | 17° 9 | 16° 9 | 22°33 | 6°45 | S 24 |
| M25 | 6 13 24 | 3°13'36 | 11 Ⅱ 43 | 28°58 | 9°33 | 14°19 | 24°10 | 26°54 | 23° 1 | 19°34 | 11°41 | 16°59 | 16° 6 | 22°40 | 6°49 | M25 |
| T 26 | 6 17 20 | 4°14'45 | 24°20 | 0 る 33 | 10°48 | 15° 6 | 24°23 | 26°49 | 23° 4 | 19°36 | 11°40 | 16°48 | 16° 3 | 22°47 | 6°52 | T 26 |
| W27 | 6 21 17 | 5°15'54 | 6 9 47 | 2° 8 | 12° 4 | 15°52 | 24°37 | 26°45 | 23° 8 | 19°38 | 11°39 | 16°34 | 16° 0 | 22°54 | 6°55 | W27 |
| T 28 | 6 25 14 | 6°17'04 | 19° 5 | 3°44 | 13°19 | 16°39 | 24°51 | 26°41 | 23°12 | 19°41 | 11°38 | 16°19 | 15°57 | 23° 0 | 6°58 | T 28 |
| F 29 | 6 29 10 | 7°18'13 | 1012 | 5°20 | 14°34 | 17°26 | 25° 4 | 26°36 | 23°15 | 19°43 | 11°37 | 16° 6 | 15°53 | 23° 7 | 7° 1 | F 29 |
| S 30 | 6 33 7 | 8°19'23 | 13°11 | 6°56 | 15°50 | 18°13 | 25°18 | 26°32 | 23°19 | 19°45 | 11°36 | 15°53 | 15°50 | 23°14 | 7° 4 | S 30 |
| S 31 | 6 37 3 | 9 る 20'32 | 25 N 3 | 8 건 33 | 17ਰ 5 | 19 ≈ 0 | 25 × 31 | 26927 | 23 × 22 | 19 .7 47 | 11 II 35 | 15 Ƴ 44 | 15 Ƴ 47 | 23\$\Omega20 | 7 º 6 | S 31 |

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| T 2 6 W 3 6 F 5 6 S 6 7 S 7 7 M 8 7 T 9 7 | 41 0 44 56 48 53 52 49 56 46 0 43 4 39 8 36 12 32 16 29 20 25 | 10~521'42 11°22'51 12°24'01 13°25'11 14°26'21 15°27'31 16°28'40 17°29'50 18°31'00 | 6 m 52 18°41 0 • 35 12°39 24°58 7 m 39 20°46 4 × 21 | 10 3 10 11°48 13°26 15° 4 16°43 18°22 20° 1 | 18 5 21 19°36 20°51 22° 7 23°22 24°37 25°53 | 19≈47 20°34 21°21 22° 8 22°55 23°42 | 25×45 25°58 26°12 26°25 26°39 26°52 | 26°R22 26©18 26°13 26°8 26°4 | 23×26 23°29 23°33 23°36 | 19 ∡ 49 19°51 19°54 19°56 | 11°R34 11 II 33 11°32 11°31 | 15°R37 15 Υ 33 15°31 15°31 | 15 ° 44 15°41 15°37 15°34 | 23 \Omega 27 23°34 23°40 23°47 | 7 ♀ 9 7°11 7°14 7°16 | M 1 T 2 W 3 |
|--|---|---|--|--|--|--|--|--|----------------------------------|---|---|--|---|--|--------------------------------------|-------------------|
| W 3 6. T 4 6 F 5 6 S 6 7 S 7 7 M 8 7 T 9 7 | 48 53 52 49 56 46 0 43 4 39 8 36 12 32 16 29 | 12°24'01 13°25'11 14°26'21 15°27'31 16°28'40 17°29'50 18°31'00 | 0 <u>0</u> 35 12°39 24°58 7M39 20°46 4√21 | 13°26 15° 4 16°43 18°22 20° 1 | 20°51 22° 7 23°22 24°37 | 21°21 22° 8 22°55 | 26°12 26°25 26°39 | 26°13 26° 8 | 23°33 23°36 | 19°54 19°56 | 11°32 | 15°31 | 15°37 15°34 | 23°40 | 7°14 | W 3 |
| T 4 6 F 5 6 S 6 7 S 7 7 M 8 7 T 9 7 | 52 49 56 46 0 43 4 39 8 36 12 32 16 29 | 13°25'11 14°26'21 15°27'31 16°28'40 17°29'50 18°31'00 | 12°39 24°58 7M39 20°46 4∡21 | 15° 4 16°43 18°22 20° 1 | 22° 7 23°22 24°37 | 22° 8 22°55 | 26°25 26°39 | 26° 8 | 23°36 | 19°56 | - | | 15°34 | | | |
| F 5 6 7 8 7 7 M 8 7 T 9 7 | 56 46 0 43 4 39 8 36 12 32 16 29 | 14°26'21 15°27'31 16°28'40 17°29'50 18°31'00 | 24°58 7 M .39 20°46 4 √ 21 | 16°43 18°22 20° 1 | 23°22 24°37 | 22°55 | 26°39 | | | -, | 11°31 | 15°31 | | 23°47 | 7°16 | |
| S 6 7 S 7 7 M 8 7 T 9 7 | 0 43 4 39 8 36 12 32 16 29 | 15°27'31 16°28'40 17°29'50 18°31'00 | 7 M .39 20°46 4 ₹ 21 | 18°22 20° 1 | 24°37 | | | 26° 4 | | | | | | | | T 4 |
| S 7 7 M 8 7 T 9 7 | 4 39 8 36 12 32 16 29 | 16°28'40 17°29'50 18°31'00 | 20°46 4 ∡ 721 | 20° 1 | | 23°42 | L 26°52 | | 23°40 | 19°58 | 11°30 | 15°31 | 15°31 | 23°54 | 7°18 | F 5 |
| M 8 7 T 9 7 | 8 36 12 32 16 29 | 17°29'50 18°31'00 | 4 ₹ 21 | - | 25053 | | | 25°59 | 23°43 | 20° 0 | 11°29 | 15°29 | 15°28 | 24° 1 | 7°20 | S 6 |
| T 9 7 | 12 32 16 29 | 18°31'00 | | | | 24°29 | 27° 6 | 25°54 | 23°47 | 20° 2 | 11°28 | 15°26 | 15°25 | 24° 7 | 7°22 | S 7 |
| | 16 29 | | 1000 | 21°41 | 27° 8 | 25°16 | 27°19 | 25°49 | 23°50 | 20° 4 | 11°27 | 15°20 | 15°22 | 24°14 | 7°23 | M 8 |
| W10 7 | | 100000100 | 18°26 | 23°22 | 28°24 | 26° 3 | 27°32 | 25°44 | 23°53 | 20° 6 | 11°27 | 15°12 | 15°18 | 24°21 | 7°25 | T 9 |
| | 20.25 | 19°32'09 | 2 る 57 | 25° 3 | 29°39 | 26°50 | 27°45 | 25°39 | 23°57 | 20° 8 | 11°26 | 15° 1 | 15°15 | 24°27 | 7°26 | W10 |
| | | 20°33'18 | 17°50 | 26°44 | 0≈54 | 27°37 | 27°59 | 25°34 | 24° 0 | 20°10 | 11°25 | 14°49 | 15°12 | 24°34 | 7°28 | T 11 |
| | 24 22 | 21°34'27 | 2≈56 | 28°26 | 2°10 | 28°23 | 28°12 | 25°29 | 24° 4 | 20°12 | 11°24 | 14°37 | 15° 9 | 24°41 | 7°29 | F 12 |
| S 13 7 | 28 18 | 22°35'35 | 18° 3 | 0≈ 8 | 3°25 | 29°10 | 28°25 | 25°24 | 24° 7 | 20°14 | 11°23 | 14°27 | 15° 6 | 24°47 | 7°30 | S 13 |
| S 14 7 | 32 15 | 23°36'42 | 3 ∺ 2 | 1°50 | 4°40 | 29°57 | 28°38 | 25°20 | 24°10 | 20°16 | 11°22 | 14°19 | 15° 3 | 24°54 | 7°31 | S 14 |
| M15 7 | 36 12 | 24°37'48 | 17°46 | 3°32 | 5°56 | 0) €44 | 28°51 | 25°15 | 24°13 | 20°18 | 11°22 | 14°14 | 14°59 | 25° 1 | 7°32 | M15 |
| T 16 7 | 40 8 | 25°38'53 | 2 Υ 8 | 5°15 | 7°11 | 1°31 | 29° 4 | 25°10 | 24°17 | 20°20 | 11°21 | 14°12 | 14°56 | 25° 7 | 7°32 | T 16 |
| W17 7 | 44 5 | 26°39'57 | 16° 6 | 6°57 | 8°26 | 2°18 | 29°17 | 25° 5 | 24°20 | 20°22 | 11°20 | 14°D12 | 14°53 | 25°14 | 7°33 | W17 |
| T 18 7 | 48 1 | 27°41'01 | 29°43 | 8°40 | 9°41 | 3° 5 | 29°30 | 25° 0 | 24°23 | 20°24 | 11°19 | 14°R12 | 14°50 | 25°21 | 7°34 | T 18 |
| F 19 7 | 51 58 | 28°42'03 | 12 8 59 | 10°22 | 10°57 | 3°51 | 29°43 | 24°55 | 24°26 | 20°26 | 11°18 | 14°11 | 14°47 | 25°28 | 7°34 | F 19 |
| S 20 7 | 55 54 | 29°43'04 | 25°57 | 12° 4 | 12°12 | 4°38 | 29°56 | 24°50 | 24°29 | 20°28 | 11°18 | 14° 8 | 14°43 | 25°34 | 7°34 | S 20 |
| S 21 7 | 59 51 | 0≈44'04 | 8Ⅱ40 | 13°46 | 13°27 | 5°25 | 0중 9 | 24°45 | 24°33 | 20°30 | 11°17 | 14° 3 | 14°40 | 25°41 | 7°R34 | S 21 |
| M22 8 | 3 47 | 1°45'03 | 21°12 | 15°27 | 14°42 | 6°12 | 0°22 | 24°40 | 24°36 | 20°31 | 11°16 | 13°54 | 14°37 | 25°48 | 7°34 | M22 |
| T 23 8 | 7 44 | 2°46'01 | 3933 | 17° 6 | 15°57 | 6°58 | 0°34 | 24°35 | 24°39 | 20°33 | 11°16 | 13°43 | 14°34 | 25°54 | 7°34 | T 23 |
| W24 8 | 11 41 | 3°46'58 | 15°46 | 18°44 | 17°12 | 7°45 | 0°47 | 24°30 | 24°42 | 20°35 | 11°15 | 13°30 | 14°31 | 26° 1 | 7°34 | W24 |
| T 25 8 | 15 37 | 4°47'54 | 27°51 | 20°21 | 18°28 | 8°32 | 1° 0 | 24°25 | 24°45 | 20°37 | 11°14 | 13°17 | 14°28 | 26° 8 | 7°34 | T 25 |
| F 26 8 | 19 34 | 5°48'48 | 9 Ω 50 | 21°55 | 19°43 | 9°19 | 1°12 | 24°21 | 24°48 | 20°38 | 11°14 | 13° 4 | 14°24 | 26°14 | 7°33 | F 26 |
| S 27 8 | 23 30 | 6°49'42 | 21°44 | 23°27 | 20°58 | 10° 5 | 1°25 | 24°16 | 24°51 | 20°40 | 11°13 | 12°52 | 14°21 | 26°21 | 7°32 | S 27 |
| S 28 8 | 27 27 | 7°50'35 | 3 m) 34 | 24°56 | 22°13 | 10°52 | 1°37 | 24°11 | 24°54 | 20°42 | 11°13 | 12°43 | 14°18 | 26°28 | 7°32 | S 28 |
| M29 8 | 31 23 | 8°51'26 | 15°23 | 26°20 | 23°28 | 11°38 | 1°49 | 24° 6 | 24°56 | 20°44 | 11°12 | 12°36 | 14°15 | 26°34 | 7°31 | M29 |
| T 30 8 | 35 20 | 9°52'17 | 27°12 | 27°41 | 24°43 | 12°25 | 2° 2 | 24° 2 | 24°59 | 20°45 | 11°11 | 12°33 | 14°12 | 26°41 | 7°30 | T 30 |
| W31 8 | 39 16 | 10≈53'06 | 9 쇼 7 | 28≈56 | 25≈58 | 13 米 11 | 2 ට 14 | 23957 | 25 × 2 | 20 ∡ 47 | 11 I I1 | 12°D31 | 14 Υ 9 | 26 Ω 48 | 7 ₽ 29 | W31 |

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| Day | Sid.t | 0 |) | φ | φ | ♂ | 4 | ħ | ነ ∜ | ¥ | Р | v | Ω | Ç | к 0 | Day |
|------|----------|------------------|-----------------|----------------|----------------|----------------|---------------|--------|---------------|-----------------|-----------------|----------------|----------------|----------------|----------------|------|
| T 1 | 8 43 13 | 11≈53'55 | 21 ≏ 11 | 0 米 6 | 27≈13 | 13 米 58 | 2 る 26 | 23°R52 | 25 ₹ 5 | 20 ∡ 148 | 11°R10 | 12 Y 32 | 14 Y 5 | 26 Ω 54 | 7°R28 | T 1 |
| F 2 | 8 47 10 | 12°54'43 | 3 M 28 | 1° 8 | 28°28 | 14°44 | 2°38 | 239548 | 25° 8 | 20°50 | 11 II 10 | 12°32 | 14° 2 | 27° 1 | 7 ≏ 26 | F 2 |
| S 3 | 8 51 6 | 13°55'29 | 16° 4 | 2° 4 | 29°43 | 15°31 | 2°50 | 23°43 | 25°10 | 20°52 | 11° 9 | 12°R33 | 13°59 | 27° 8 | 7°25 | S 3 |
| S 4 | 8 55 3 | 14°56'15 | 29° 4 | 2°51 | 0) ₹58 | 16°17 | 3° 2 | 23°39 | 25°13 | 20°53 | 11° 9 | 12°32 | 13°56 | 27°15 | 7°23 | S 4 |
| M 5 | 8 58 59 | 15°57'00 | 12 × 32 | 3°30 | 2°13 | 17° 4 | 3°14 | 23°35 | 25°16 | 20°55 | 11° 9 | 12°28 | 13°53 | 27°21 | 7°22 | M 5 |
| T 6 | 9 2 56 | 16°57'44 | 26°29 | 3°59 | 3°28 | 17°50 | 3°26 | 23°30 | 25°18 | 20°56 | 11° 8 | 12°23 | 13°49 | 27°28 | 7°20 | T 6 |
| W 7 | 9 6 52 | 17°58'27 | 10 궁 56 | 4°18 | 4°43 | 18°37 | 3°37 | 23°26 | 25°21 | 20°58 | 11°8 | 12°16 | 13°46 | 27°35 | 7°18 | W 7 |
| T 8 | 9 10 49 | 18°59'08 | 25°48 | 4°R27 | 5°57 | 19°23 | 3°49 | 23°22 | 25°23 | 20°59 | 11° 7 | 12° 7 | 13°43 | 27°41 | 7°16 | T 8 |
| F 9 | 9 14 46 | 19°59'48 | 10≈59 | 4°25 | 7°12 | 20° 9 | 4° 1 | 23°18 | 25°26 | 21° 0 | 11° 7 | 11°59 | 13°40 | 27°48 | 7°14 | F 9 |
| S 10 | 9 18 42 | 21° 0'27 | 26°17 | 4°12 | 8°27 | 20°55 | 4°12 | 23°13 | 25°28 | 21° 2 | 11° 7 | 11°51 | 13°37 | 27°55 | 7°12 | S 10 |
| S 11 | 9 22 39 | 22° 1'04 | 11) (31 | 3°50 | 9°42 | 21°42 | 4°24 | 23° 9 | 25°31 | 21° 3 | 11° 7 | 11°46 | 13°34 | 28° 1 | 7°10 | S 11 |
| M12 | 9 26 35 | 23° 1'39 | 26°32 | 3°17 | 10°57 | 22°28 | 4°35 | 23° 6 | 25°33 | 21° 4 | 11° 6 | 11°43 | 13°30 | 28° 8 | 7° 7 | M12 |
| T 13 | 9 30 32 | 24° 2'13 | 11 Y 12 | 2°36 | 12°11 | 23°14 | 4°46 | 23° 2 | 25°35 | 21° 6 | 11° 6 | 11°D42 | 13°27 | 28°15 | 7° 5 | T 13 |
| W14 | 9 34 28 | 25° 2'45 | 25°26 | 1°46 | 13°26 | 24° 0 | 4°57 | 22°58 | 25°38 | 21° 7 | 11° 6 | 11°42 | 13°24 | 28°21 | 7° 2 | W14 |
| T 15 | 9 38 25 | 26° 3'15 | 9 8 14 | 0°50 | 14°41 | 24°46 | 5° 8 | 22°54 | 25°40 | 21° 8 | 11° 6 | 11°44 | 13°21 | 28°28 | 6°59 | T 15 |
| F 16 | 9 42 21 | 27° 3'43 | 22°35 | 29≈50 | 15°56 | 25°32 | 5°19 | 22°50 | 25°42 | 21° 9 | 11° 5 | 11°R45 | 13°18 | 28°35 | 6°56 | F 16 |
| S 17 | 9 46 18 | 28° 4'09 | 5 Ⅱ 34 | 28°45 | 17°10 | 26°18 | 5°30 | 22°47 | 25°44 | 21°10 | 11° 5 | 11°44 | 13°15 | 28°41 | 6°54 | S 17 |
| S 18 | 9 50 14 | 29° 4'33 | 18°14 | 27°39 | 18°25 | 27° 4 | 5°41 | 22°43 | 25°46 | 21°12 | 11° 5 | 11°42 | 13°11 | 28°48 | 6°51 | S 18 |
| M19 | 9 54 11 | 0) 4'56 | 0937 | 26°33 | 19°39 | 27°50 | 5°52 | 22°40 | 25°48 | 21°13 | 11° 5 | 11°38 | 13° 8 | 28°55 | 6°47 | M19 |
| T 20 | 9 58 8 | 1° 5'16 | 12°49 | 25°29 | 20°54 | 28°36 | 6° 2 | 22°37 | 25°50 | 21°14 | 11° 5 | 11°33 | 13° 5 | 29° 2 | 6°44 | T 20 |
| W21 | 10 2 4 | 2° 5'35 | 24°52 | 24°27 | 22° 8 | 29°22 | 6°13 | 22°33 | 25°52 | 21°15 | 11° 5 | 11°26 | 13° 2 | 29° 8 | 6°41 | W21 |
| T 22 | 10 6 1 | 3° 5'52 | 6 Ω 49 | 23°30 | 23°23 | oΥ 8 | 6°23 | 22°30 | 25°54 | 21°16 | 11° 5 | 11°18 | 12°59 | 29°15 | 6°38 | T 22 |
| F 23 | 10 9 57 | 4° 6'06 | 18°41 | 22°38 | 24°37 | 0°54 | 6°33 | 22°27 | 25°56 | 21°17 | 11° 5 | 11°11 | 12°55 | 29°22 | 6°34 | F 23 |
| S 24 | 10 13 54 | 5° 6'19 | 0 m y31 | 21°52 | 25°52 | 1°40 | 6°44 | 22°24 | 25°58 | 21°18 | 11°D 5 | 11° 5 | 12°52 | 29°28 | 6°31 | S 24 |
| S 25 | 10 17 50 | 6° 6'30 | 12°21 | 21°12 | 27° 6 | 2°25 | 6°54 | 22°21 | 26° 0 | 21°19 | 11° 5 | 11° 0 | 12°49 | 29°35 | 6°27 | S 25 |
| M26 | 10 21 47 | 7° 6'39 | 24°13 | 20°39 | 28°20 | 3°11 | 7° 4 | 22°18 | 26° 1 | 21°19 | 11° 5 | 10°56 | 12°46 | 29°42 | 6°23 | M26 |
| T 27 | 10 25 43 | 8° 6'47 | 6 ₾ 8 | 20°14 | 29°35 | 3°57 | 7°13 | 22°16 | 26° 3 | 21°20 | 11° 5 | 10°D55 | 12°43 | 29°48 | 6°20 | T 27 |
| W28 | 10 29 40 | 9° 6'52 | 18° 8 | 19°55 | 0 Υ 49 | 4°42 | 7°23 | 22°13 | 26° 5 | 21°21 | 11° 5 | 10°55 | 12°40 | 29°55 | 6°16 | W28 |
| T 29 | 10 33 37 | 10 米 6′56 | 0 M .18 | 19 ≈ 43 | 2 ℃ 3 | 5 Ƴ 28 | 7 云 33 | 229511 | 26 ∡ 6 | 21 × 122 | 11 II 5 | 10 Y 56 | 12 Y 36 | 0Mp 2 | 6 ₽ 12 | T 29 |

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|--------------|----------------------|---------------------------|------------------------------|-----------------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|---------------|-------------|
| F 1 | 10 37 33 | 11 ¥ 6'59 | 12 M 40 | 19°D37 | 3Υ 17 | 6 Υ 13 | 7 云 42 | 22°R 8 | 26 ∡ 8 | 21 × 123 | 11 I 5 | 10 Y 58 | 12 Y 33 | 0 m y 8 | 6°R 8 | F 1 |
| S 2 | 10 41 30 | 12° 6'59 | 25°18 | 19 ≈ 39 | 4°31 | 6°59 | 7°52 | 2295 6 | 26° 9 | 21°23 | 11° 5 | 11° 0 | 12°30 | 0°15 | 6 ♀ 4 | S 2 |
| S 3 | 10 45 26 | 13° 6'58 | 8 ∡ 16 | 19°46 | 5°46 | 7°44 | 8° 1 | 22° 4 | 26°11 | 21°24 | 11° 5 | 11°R 1 | 12°27 | 0°22 | 6° 0 | S 3 |
| M 4 | 10 49 23 | 14° 6'56 | 21°37 | 19°59 | 7° 0 | 8°29 | 8°10 | 22° 2 | 26°12 | 21°25 | 11° 6 | 11° 1 | 12°24 | 0°28 | 5°56 | M 4 |
| T 5 | 10 53 19 | 15° 6'52 | 5 궁 24 | 20°18 | 8°14 | 9°15 | 8°19 | 22° 0 | 26°14 | 21°25 | 11° 6 | 10°59 | 12°21 | 0°35 | 5°52 | T 5 |
| W 6 | 10 57 16 | 16° 6'46 | 19°37 | 20°42 | 9°28 | 10° 0 | 8°28 | 21°58 | 26°15 | 21°26 | 11° 6 | 10°57 | 12°17 | 0°42 | 5°47 | W 6 |
| T 7 | 11 1 12 | 17° 6'39 | 4≈14 | 21°10 | 10°42 | 10°45 | 8°37 | 21°56 | 26°16 | 21°27 | 11° 6 | 10°54 | 12°14 | 0°48 | 5°43 | T 7 |
| F 8 | 11 5 9 | 18° 6'30 | 19°11 | 21°44 | 11°56 | 11°31 | 8°46 | 21°54 | 26°17 | 21°27 | 11° 7 | 10°50 | 12°11 | 0°55 | 5°39 | F 8 |
| S 9 | 11 9 6 | 19° 6'19 | 4) €20 | 22°21 | 13°10 | 12°16 | 8°54 | 21°53 | 26°19 | 21°28 | 11° 7 | 10°48 | 12° 8 | 1° 2 | 5°34 | S 9 |
| S 10 | 11 13 2 | 20° 6'06 | 19°31 | 23° 3 | 14°23 | 13° 1 | 9° 3 | 21°51 | 26°20 | 21°28 | 11° 7 | 10°46 | 12° 5 | 1° 8 | 5°30 | S 10 |
| M11 | 11 16 59 | 21° 5'51 | 4Υ 35 | 23°48 | 15°37 | 13°46 | 9°11 | 21°50 | 26°21 | 21°28 | 11° 8 | 10°D45 | 12° 1 | 1°15 | 5°25 | M11 |
| T 12 | 11 20 55 | 22° 5'33 | 19°23 | 24°37 | 16°51 | 14°31 | 9°19 | 21°49 | 26°22 | 21°29 | 11° 8 | 10°45 | 11°58 | 1°22 | 5°21 | T 12 |
| W13 | 11 24 52 | 23° 5'14 | 3 8 48 17°48 | 25°29 26°24 | 18° 5 19°18 | 15°16 16° 1 | 9°27 9°35 | 21°47 | 26°23 | 21°29 21°30 | 11° 8 11° 9 | 10°46 10°47 | 11°55 | 1°28 1°35 | 5°16 5°11 | W13 T 14 |
| T 14 F 15 | 11 28 48 11 32 45 | 24° 4'53 25° 4'29 | 1 1 1 1 1 1 1 1 1 1 1 | 26°24 27°22 | 19°18 20°32 | 16° 1 | 9°33 9°43 | 21°46 21°45 | 26°24 26°24 | 21°30 21°30 | 11° 9 | 10°47 10°48 | 11°52 11°49 | 1°35 1°42 | 5° 11 | F 15 |
| S 16 | 11 32 43 | 26° 4'03 | 14°26 | 28°23 | 20°32 21°46 | 17°31 | 9°51 | 21°45 | 26°25 | 21°30 | 11°10 | 10°49 | 11°46 | 1°49 | 5° 2 | S 16 |
| | | | | | | | | | | | | | | - | | |
| S 17 | 11 40 38 | 27° 3'35 | 27°10 | 29°26 | 22°59 | 18°16 | 9°58 | 21°44 | 26°26 | 21°30 | 11°10 | 10°R49 | 11°42 | 1°55 | 4°57 | S 17 |
| M18 T 19 | 11 44 35 11 48 31 | 28° 3'04 29° 2'31 | 9 © 34 21°44 | 0 ★32 1°40 | 24°13 25°26 | 19° 0 19°45 | 10° 5 10°13 | 21°43 21°43 | 26°27 26°27 | 21°30 21°31 | 11°11 11°11 | 10°49 10°48 | 11°39 11°36 | 2° 2 2° 9 | 4°53 4°48 | M18 T 19 |
| W20 | 11 52 28 | 29 231 0 Υ 1'56 | 3 Ω 43 | 2°50 | 26°40 | 20°30 | 10°13 | 21°42 | 26°28 | 21°31 | 11°12 | 10°48 | 11°33 | 2°15 | 4°43 | W20 |
| T 21 | 11 56 24 | 1° 1'18 | 15°35 | 4° 2 | 27°53 | 20°30 21°14 | 10°27 | 21°42 | 26°29 | 21°31 | 11°12 | 10°47 | 11°30 | 2°22 | 4°38 | T 21 |
| F 22 | 12 0 21 | 2° 0'38 | 27°25 | 5°17 | 29° 6 | 21°59 | 10°33 | 21°42 | 26°29 | 21°31 | 11°13 | 10°44 | 11°26 | 2°29 | 4°34 | F 22 |
| S 23 | 12 4 17 | 2°59'56 | 9 m 14 | 6°33 | 0819 | 22°43 | 10°40 | 21°D42 | 26°29 | 21°R31 | 11°13 | 10°43 | 11°23 | 2°35 | 4°29 | S 23 |
| S 24 | 12 8 14 | 3°59'12 | 21° 6 | 7°52 | 1°33 | 23°28 | 10°47 | 21°42 | 26°30 | 21°31 | 11°14 | 10°42 | 11°20 | 2°42 | 4°24 | S 24 |
| M25 | 12 12 10 | 4°58'25 | 3 <u>0</u> 3 | 9°12 | 2°46 | 24°12 | 10°53 | 21°42 | 26°30 | 21°31 | 11°15 | 10°42 | 11°17 | 2°49 | 4°19 | M25 |
| T 26 | 12 16 7 | 5°57'37 | 15° 8 | 10°34 | 3°59 | 24°57 | 10°59 | 21°43 | 26°30 | 21°31 | 11°15 | 10°D42 | 11°14 | 2°55 | 4°14 | T 26 |
| W27 | 12 20 4 | 6°56'46 | 27°20 | 11°57 | 5°12 | 25°41 | 11° 5 | 21°43 | 26°31 | 21°31 | 11°16 | 10°42 | 11°11 | 3° 2 | 4°10 | W27 |
| T 28 | 12 24 0 | 7°55'54 | 9 M 44 | 13°23 | 6°25 | 26°25 | 11°11 | 21°43 | 26°31 | 21°31 | 11°17 | 10°42 | 11° 7 | 3° 9 | 4° 5 | T 28 |
| F 29 | 12 27 57 | 8°55'00 | 22°20 | 14°49 | 7°38 | 27°10 | 11°17 | 21°44 | 26°31 | 21°30 | 11°17 | 10°42 | 11° 4 | 3°15 | 4° 0 | F 29 |
| S 30 | 12 31 53 | 9°54'04 | 5 ₹ 9 | 16°18 | 8°51 | 27°54 | 11°22 | 21°45 | 26°31 | 21°30 | 11°18 | 10°43 | 11° 1 | 3°22 | 3°55 | S 30 |
| S 31 | 12 35 50 | 10 Y 53'06 | 18 ∡ 15 | 17) 48 | 10 8 3 | 28 Y 38 | 11 る 27 | 219546 | 26°R31 | 21 × 30 | 11 I I19 | 10°R43 | 10 Y 58 | 3 m 29 | 3 ₾ 50 | S 31 |

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|------|----------|-------------------|----------------|----------------|----------------|----------------|----------------|--------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|------|
| M 1 | 12 39 46 | 11 Y 52'06 | 1 る 38 | 19 米 20 | 11816 | 29 Y 22 | 11 る 33 | 219547 | 26°R31 | 21°R30 | 11 Ⅱ 20 | 10°R43 | 10 Υ 55 | 3 Mp 35 | 3°R46 | M 1 |
| T 2 | 12 43 43 | 12°51'05 | 15°20 | 20°53 | 12°29 | 0 8 6 | 11°38 | 21°48 | 26 ₹ 31 | 21 ~ 29 | 11°20 | 10°D42 | 10°52 | 3°42 | 3 ≏ 41 | T 2 |
| W 3 | 12 47 39 | 13°50'02 | 29°22 | 22°28 | 13°42 | 0°50 | 11°43 | 21°49 | 26°31 | 21°29 | 11°21 | 10 Y 43 | 10°48 | 3°49 | 3°36 | W 3 |
| T 4 | 12 51 36 | 14°48'57 | 13≈41 | 24° 4 | 14°54 | 1°34 | 11°47 | 21°50 | 26°31 | 21°29 | 11°22 | 10°43 | 10°45 | 3°55 | 3°32 | T 4 |
| F 5 | 12 55 33 | 15°47'50 | 28°17 | 25°42 | 16° 7 | 2°18 | 11°52 | 21°51 | 26°30 | 21°28 | 11°23 | 10°43 | 10°42 | 4° 2 | 3°27 | F 5 |
| S 6 | 12 59 29 | 16°46'41 | 13 米 3 | 27°22 | 17°19 | 3° 2 | 11°56 | 21°53 | 26°30 | 21°28 | 11°24 | 10°44 | 10°39 | 4° 9 | 3°22 | S 6 |
| S 7 | 13 3 26 | 17°45'31 | 27°54 | 29° 3 | 18°32 | 3°45 | 12° 0 | 21°55 | 26°30 | 21°27 | 11°25 | 10°44 | 10°36 | 4°15 | 3°18 | S 7 |
| M 8 | 13 7 22 | 18°44'19 | 12 Y 44 | 0 Υ 46 | 19°44 | 4°29 | 12° 4 | 21°56 | 26°29 | 21°27 | 11°25 | 10°R44 | 10°32 | 4°22 | 3°13 | M 8 |
| T 9 | 13 11 19 | 19°43'05 | 27°23 | 2°30 | 20°56 | 5°13 | 12° 8 | 21°58 | 26°29 | 21°26 | 11°26 | 10°44 | 10°29 | 4°29 | 3° 9 | T 9 |
| W10 | 13 15 15 | 20°41'48 | 11 8 47 | 4°15 | 22° 9 | 5°57 | 12°12 | 22° 0 | 26°28 | 21°26 | 11°27 | 10°43 | 10°26 | 4°35 | 3° 4 | W10 |
| T 11 | 13 19 12 | 21°40'30 | 25°48 | 6° 3 | 23°21 | 6°40 | 12°16 | 22° 2 | 26°28 | 21°25 | 11°28 | 10°42 | 10°23 | 4°42 | 3° 0 | T 11 |
| F 12 | 13 23 8 | 22°39'10 | 9∏26 | 7°52 | 24°33 | 7°24 | 12°19 | 22° 4 | 26°27 | 21°25 | 11°29 | 10°41 | 10°20 | 4°49 | 2°56 | F 12 |
| S 13 | 13 27 5 | 23°37'47 | 22°38 | 9°42 | 25°45 | 8° 7 | 12°22 | 22° 6 | 26°27 | 21°24 | 11°30 | 10°39 | 10°17 | 4°55 | 2°51 | S 13 |
| S 14 | 13 31 2 | 24°36'23 | 5927 | 11°34 | 26°57 | 8°51 | 12°25 | 22° 9 | 26°26 | 21°23 | 11°31 | 10°38 | 10°13 | 5° 2 | 2°47 | S 14 |
| M15 | 13 34 58 | 25°34'56 | 17°56 | 13°28 | 28° 9 | 9°34 | 12°28 | 22°11 | 26°25 | 21°22 | 11°32 | 10°37 | 10°10 | 5° 9 | 2°43 | M15 |
| T 16 | 13 38 55 | 26°33'27 | oΩ 7 | 15°23 | 29°21 | 10°17 | 12°30 | 22°14 | 26°24 | 21°22 | 11°33 | 10°D37 | 10° 7 | 5°15 | 2°39 | T 16 |
| W17 | 13 42 51 | 27°31'55 | 12° 7 | 17°20 | 0 Ⅲ 33 | 11° 1 | 12°33 | 22°16 | 26°24 | 21°21 | 11°34 | 10°37 | 10° 4 | 5°22 | 2°35 | W17 |
| T 18 | 13 46 48 | 28°30'22 | 23°59 | 19°18 | 1°44 | 11°44 | 12°35 | 22°19 | 26°23 | 21°20 | 11°35 | 10°39 | 10° 1 | 5°29 | 2°31 | T 18 |
| F 19 | 13 50 44 | 29°28'46 | 5 M p48 | 21°18 | 2°56 | 12°27 | 12°37 | 22°22 | 26°22 | 21°19 | 11°36 | 10°40 | 9°58 | 5°35 | 2°27 | F 19 |
| S 20 | 13 54 41 | 0827'09 | 17°38 | 23°20 | 4° 8 | 13°10 | 12°39 | 22°25 | 26°21 | 21°19 | 11°37 | 10°42 | 9°54 | 5°42 | 2°23 | S 20 |
| S 21 | 13 58 37 | 1°25'29 | 29°34 | 25°23 | 5°19 | 13°53 | 12°41 | 22°28 | 26°20 | 21°18 | 11°39 | 10°43 | 9°51 | 5°49 | 2°19 | S 21 |
| M22 | 14 2 34 | 2°23'47 | 11 ≏ 38 | 27°27 | 6°30 | 14°36 | 12°42 | 22°31 | 26°19 | 21°17 | 11°40 | 10°R43 | 9°48 | 5°55 | 2°16 | M22 |
| T 23 | 14 6 30 | 3°22'03 | 23°54 | 29°32 | 7°42 | 15°19 | 12°43 | 22°34 | 26°18 | 21°16 | 11°41 | 10°42 | 9°45 | 6° 2 | 2°12 | T 23 |
| W24 | 14 10 27 | 4°20'18 | 6ML22 | 1839 | 8°53 | 16° 2 | 12°44 | 22°38 | 26°16 | 21°15 | 11°42 | 10°41 | 9°42 | 6° 9 | 2° 8 | W24 |
| T 25 | 14 14 24 | 5°18'31 | 19° 4 | 3°47 | 10° 4 | 16°45 | 12°45 | 22°41 | 26°15 | 21°14 | 11°43 | 10°38 | 9°38 | 6°15 | 2° 5 | T 25 |
| F 26 | 14 18 20 | 6°16'42 | 2 ₹ 0 | 5°55 | 11°15 | 17°28 | 12°46 | 22°44 | 26°14 | 21°13 | 11°44 | 10°34 | 9°35 | 6°22 | 2° 2 | F 26 |
| S 27 | 14 22 17 | 7°14'51 | 15°11 | 8° 5 | 12°26 | 18°11 | 12°47 | 22°48 | 26°13 | 21°12 | 11°45 | 10°30 | 9°32 | 6°29 | 1°58 | S 27 |
| S 28 | 14 26 13 | 8°12'59 | 28°35 | 10°14 | 13°37 | 18°54 | 12°47 | 22°52 | 26°11 | 21°11 | 11°47 | 10°26 | 9°29 | 6°35 | 1°55 | S 28 |
| M29 | 14 30 10 | 9°11'06 | 12 る 11 | 12°24 | 14°48 | 19°36 | 12°R47 | 22°56 | 26°10 | 21°10 | 11°48 | 10°23 | 9°26 | 6°42 | 1°52 | M29 |
| T 30 | 14 34 6 | 108 9'11 | 25 る 59 | 14 8 34 | 15 Ⅱ 59 | 20819 | 12 る 47 | 22959 | 26 ₹ 9 | 21 ~ 9 | 11 Ⅱ 49 | 10 Y 21 | 9 Υ 23 | 6 m 49 | 1 ≏ 49 | T 30 |

Delta T = 41.74 sec

MAY 1652 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | φ | ♂ | 4 | ħ |)f(| ¥ | Р | v | Ω | Ç | ę, | Day |
|------|----------|------------------|-----------------|----------------|-----------------|-----------------|----------------|--------|---------------|----------------|-------|----------------|---------------|----------------|---------------|------|
| W 1 | 14 38 3 | 118 7'15 | 9≈59 | 16 8 43 | 17 I I10 | 218 2 | 12°R47 | 2395 3 | 26°R 7 | 21°R 8 | 11耳50 | 10°D20 | 9 Υ 19 | 6 m 55 | 1°R46 | W 1 |
| T 2 | 14 42 0 | 12° 5'17 | 24° 8 | 18°52 | 18°20 | 21°44 | 12 る 47 | 23° 7 | 26 ₹ 6 | 21 ×7 6 | 11°51 | 10 Y 20 | 9°16 | 7° 2 | 1 ≏ 43 | T 2 |
| F 3 | 14 45 56 | 13° 3'18 | 8 ∺ 25 | 21° 0 | 19°31 | 22°27 | 12°46 | 23°12 | 26° 4 | 21° 5 | 11°53 | 10°22 | 9°13 | 7° 9 | 1°40 | F 3 |
| S 4 | 14 49 53 | 14° 1'18 | 22°48 | 23° 7 | 20°41 | 23° 9 | 12°45 | 23°16 | 26° 3 | 21° 4 | 11°54 | 10°23 | 9°10 | 7°15 | 1°38 | S 4 |
| S 5 | 14 53 49 | 14°59'16 | 7 Υ 13 | 25°12 | 21°52 | 23°52 | 12°44 | 23°20 | 26° 1 | 21° 3 | 11°55 | 10°R24 | 9° 7 | 7°22 | 1°35 | S 5 |
| M 6 | 14 57 46 | 15°57'13 | 21°38 | 27°15 | 23° 2 | 24°34 | 12°43 | 23°24 | 25°59 | 21° 2 | 11°56 | 10°24 | 9° 3 | 7°29 | 1°32 | M 6 |
| T 7 | 15 1 42 | 16°55'08 | 5 8 56 | 29°17 | 24°12 | 25°16 | 12°42 | 23°29 | 25°58 | 21° 0 | 11°58 | 10°21 | 9° 0 | 7°35 | 1°30 | T 7 |
| W 8 | 15 5 39 | 17°53'02 | 20° 2 | 1 I I16 | 25°22 | 25°58 | 12°40 | 23°33 | 25°56 | 20°59 | 11°59 | 10°18 | 8°57 | 7°42 | 1°28 | W 8 |
| T 9 | 15 9 35 | 18°50'55 | 3 Ⅱ 53 | 3°13 | 26°32 | 26°41 | 12°39 | 23°38 | 25°54 | 20°58 | 12° 0 | 10°12 | 8°54 | 7°49 | 1°26 | T 9 |
| F 10 | 15 13 32 | 19°48'46 | 17°25 | 5° 7 | 27°42 | 27°23 | 12°37 | 23°43 | 25°52 | 20°56 | 12° 1 | 10° 6 | 8°51 | 7°55 | 1°24 | F 10 |
| S 11 | 15 17 29 | 20°46'36 | 0936 | 6°58 | 28°52 | 28° 5 | 12°35 | 23°48 | 25°51 | 20°55 | 12° 3 | 9°59 | 8°48 | 8° 2 | 1°22 | S 11 |
| S 12 | 15 21 25 | 21°44'24 | 13°25 | 8°47 | 0ණ 2 | 28°47 | 12°33 | 23°53 | 25°49 | 20°54 | 12° 4 | 9°53 | 8°44 | 8° 9 | 1°20 | S 12 |
| M13 | 15 25 22 | 22°42'10 | 25°55 | 10°32 | 1°11 | 29°29 | 12°30 | 23°57 | 25°47 | 20°52 | 12° 5 | 9°48 | 8°41 | 8°15 | 1°18 | M13 |
| T 14 | 15 29 18 | 23°39'54 | 8 N 8 | 12°15 | 2°21 | 0 Ⅱ 11 | 12°27 | 24° 3 | 25°45 | 20°51 | 12° 7 | 9°45 | 8°38 | 8°22 | 1°16 | T 14 |
| W15 | 15 33 15 | 24°37'37 | 20° 8 | 13°54 | 3°30 | 0°53 | 12°25 | 24° 8 | 25°43 | 20°50 | 12° 8 | 9°D44 | 8°35 | 8°29 | 1°15 | W15 |
| T 16 | 15 37 11 | 25°35'19 | 2MD 0 | 15°30 | 4°39 | 1°35 | 12°22 | 24°13 | 25°41 | 20°48 | 12° 9 | 9°44 | 8°32 | 8°35 | 1°13 | T 16 |
| F 17 | 15 41 8 | 26°32'58 | 13°50 | 17° 3 | 5°49 | 2°17 | 12°18 | 24°18 | 25°39 | 20°47 | 12°11 | 9°45 | 8°29 | 8°42 | 1°12 | F 17 |
| S 18 | 15 45 4 | 27°30'37 | 25°41 | 18°33 | 6°58 | 2°59 | 12°15 | 24°23 | 25°37 | 20°45 | 12°12 | 9°46 | 8°25 | 8°49 | 1°11 | S 18 |
| S 19 | 15 49 1 | 28°28'13 | 7 ≙ 40 | 19°59 | 8° 7 | 3°40 | 12°12 | 24°29 | 25°35 | 20°44 | 12°13 | 9°R47 | 8°22 | 8°55 | 1° 9 | S 19 |
| M20 | 15 52 58 | 29°25'48 | 19°51 | 21°22 | 9°15 | 4°22 | 12° 8 | 24°34 | 25°33 | 20°42 | 12°15 | 9°46 | 8°19 | 9° 2 | 1°8 | M20 |
| T 21 | 15 56 54 | 0 Ⅲ 23'22 | 2 M .16 | 22°41 | 10°24 | 5° 4 | 12° 4 | 24°40 | 25°31 | 20°41 | 12°16 | 9°44 | 8°16 | 9° 9 | 1°8 | T 21 |
| W22 | 16 0 51 | 1°20'55 | 14°59 | 23°58 | 11°33 | 5°45 | 12° 0 | 24°45 | 25°29 | 20°39 | 12°18 | 9°39 | 8°13 | 9°15 | 1° 7 | W22 |
| T 23 | 16 447 | 2°18'26 | 28° 1 | 25°10 | 12°41 | 6°27 | 11°56 | 24°51 | 25°26 | 20°38 | 12°19 | 9°33 | 8° 9 | 9°22 | 1° 6 | T 23 |
| F 24 | 16 8 44 | 3°15'57 | 11 × 120 | 26°19 | 13°49 | 7° 8 | 11°52 | 24°57 | 25°24 | 20°36 | 12°20 | 9°25 | 8° 6 | 9°29 | 1° 6 | F 24 |
| S 25 | 16 12 40 | 4°13'26 | 24°55 | 27°24 | 14°57 | 7°50 | 11°47 | 25° 3 | 25°22 | 20°35 | 12°22 | 9°16 | 8° 3 | 9°35 | 1° 5 | S 25 |
| S 26 | 16 16 37 | 5°10'54 | 8 국 44 | 28°26 | 16° 5 | 8°31 | 11°42 | 25° 8 | 25°20 | 20°33 | 12°23 | 9° 7 | 8° 0 | 9°42 | 1° 5 | S 26 |
| M27 | 16 20 33 | 6° 8'22 | 22°43 | 29°24 | 17°13 | 9°13 | 11°38 | 25°14 | 25°18 | 20°32 | 12°24 | 8°59 | 7°57 | 9°49 | 1° 4 | M27 |
| T 28 | 16 24 30 | 7° 5'49 | 6≈48 | 0হ্হ18 | 18°21 | 9°54 | 11°33 | 25°20 | 25°15 | 20°30 | 12°26 | 8°54 | 7°54 | 9°55 | 1° 4 | T 28 |
| W29 | 16 28 27 | 8° 3'15 | 20°57 | 1° 8 | 19°29 | 10°35 | 11°28 | 25°26 | 25°13 | 20°29 | 12°27 | 8°50 | 7°50 | 10° 2 | 1°D 4 | W29 |
| T 30 | 16 32 23 | 9° 0'40 | 5 ₩ 6 | 1°55 | 20°36 | 11°16 | 1 <u>1°</u> 22 | 25°33 | 25°11 | 20°27 | 12°29 | 8°D49 | 7°47 | 10° 9 | 1° 4 | T 30 |
| F 31 | 16 36 20 | 9∏58'04 | 19 ∺ 15 | 2937 | 219544 | 11 II 58 | 11 る 17 | 25939 | 25 ⋌ 8 | 20 ∡ 26 | 12耳30 | 8 Ƴ 49 | 7 Υ 44 | 10 M 15 | 1 ≏ 5 | F 31 |

Delta T = 41.69 sec Greg. G

Greg. Calendar

| JUNE 1652 GC | 00:00 UT |
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| | |

| Day | Sid.t | 0 | D | ğ | · | o ^r | 4 | ħ |)∤(| ¥ | В | V | ಬ | Ç | , k | Day |
|------|----------|----------|-----------------|-------|----------------|-----------------|---------------|-------|-----------------|----------------|-----------------|---------------|---------------|----------------|--------------|------|
| S 1 | 16 40 16 | 10∏55'28 | 3 Υ 22 | 39915 | 22951 | 12 II 39 | 11°R11 | 25945 | 25°R 6 | 20°R24 | 12 II 31 | 8°R50 | 7 Υ 41 | 10 m 22 | 1 º 5 | S 1 |
| S 2 | 16 44 13 | 11°52'52 | 17°25 | 3°49 | 23°58 | 13°20 | 11ට 6 | 25°51 | 25 ∡ 4 | 20 × 22 | 12°33 | 8 Y 50 | 7°38 | 10°29 | 1° 5 | S 2 |
| M 3 | 16 48 9 | 12°50'14 | 1824 | 4°18 | 25° 5 | 14° 1 | 11° 0 | 25°58 | 25° 1 | 20°21 | 12°34 | 8°48 | 7°35 | 10°35 | 1° 6 | M 3 |
| T 4 | 16 52 6 | 13°47'37 | 15°17 | 4°43 | 26°11 | 14°42 | 10°54 | 26° 4 | 24°59 | 20°19 | 12°36 | 8°43 | 7°31 | 10°42 | 1° 7 | T 4 |
| W 5 | 16 56 2 | 14°44'58 | 29° 0 | 5° 4 | 27°18 | 15°23 | 10°48 | 26°10 | 24°57 | 20°18 | 12°37 | 8°36 | 7°28 | 10°49 | 1° 7 | W 5 |
| T 6 | 16 59 59 | 15°42'20 | 12 Ⅲ 31 | 5°20 | 28°24 | 16° 4 | 10°42 | 26°17 | 24°54 | 20°16 | 12°38 | 8°27 | 7°25 | 10°55 | 1° 8 | T 6 |
| F 7 | 17 3 56 | 16°39'40 | 25°47 | 5°32 | 29°30 | 16°45 | 10°35 | 26°23 | 24°52 | 20°14 | 12°40 | 8°16 | 7°22 | 11° 2 | 1° 9 | F 7 |
| S 8 | 17 7 52 | 17°37'00 | 89946 | 5°39 | 0 Ω 37 | 17°26 | 10°29 | 26°30 | 24°49 | 20°13 | 12°41 | 8° 4 | 7°19 | 11° 9 | 1°11 | S 8 |
| S 9 | 17 11 49 | 18°34'19 | 21°28 | 5°R41 | 1°42 | 18° 7 | 10°22 | 26°37 | 24°47 | 20°11 | 12°42 | 7°53 | 7°15 | 11°15 | 1°12 | S 9 |
| M10 | 17 15 45 | 19°31'37 | 3 Ω 54 | 5°39 | 2°48 | 18°47 | 10°16 | 26°43 | 24°44 | 20° 9 | 12°44 | 7°44 | 7°12 | 11°22 | 1°13 | M10 |
| T 11 | 17 19 42 | 20°28'54 | 16° 4 | 5°33 | 3°54 | 19°28 | 10° 9 | 26°50 | 24°42 | 20° 8 | 12°45 | 7°37 | 7° 9 | 11°29 | 1°15 | T 11 |
| W12 | 17 23 38 | 21°26'11 | 28° 3 | 5°22 | 4°59 | 20° 9 | 10° 2 | 26°57 | 24°40 | 20° 6 | 12°47 | 7°32 | 7° 6 | 11°35 | 1°16 | W12 |
| T 13 | 17 27 35 | 22°23'26 | 9 m 54 | 5° 7 | 6° 4 | 20°49 | 9°55 | 27° 4 | 24°37 | 20° 5 | 12°48 | 7°30 | 7° 3 | 11°42 | 1°18 | T 13 |
| F 14 | 17 31 31 | 23°20'41 | 21°43 | 4°48 | 7° 9 | 21°30 | 9°48 | 27°11 | 24°35 | 20° 3 | 12°49 | 7°D29 | 7° 0 | 11°49 | 1°20 | F 14 |
| S 15 | 17 35 28 | 24°17'55 | 3 ≏ 35 | 4°26 | 8°13 | 22°11 | 9°41 | 27°17 | 24°32 | 20° 1 | 12°51 | 7°R29 | 6°56 | 11°55 | 1°22 | S 15 |
| S 16 | 17 39 25 | 25°15'09 | 15°35 | 4° 0 | 9°18 | 22°51 | 9°34 | 27°24 | 24°30 | 20° 0 | 12°52 | 7°29 | 6°53 | 12° 2 | 1°24 | S 16 |
| M17 | 17 43 21 | 26°12'22 | 27°48 | 3°32 | 10°22 | 23°32 | 9°27 | 27°31 | 24°27 | 19°58 | 12°53 | 7°28 | 6°50 | 12° 9 | 1°26 | M17 |
| T 18 | 17 47 18 | 27° 9'34 | 10 M .19 | 3° 0 | 11°26 | 24°12 | 9°19 | 27°38 | 24°25 | 19°57 | 12°55 | 7°24 | 6°47 | 12°15 | 1°28 | T 18 |
| W19 | 17 51 14 | 28° 6'46 | 23°12 | 2°27 | 12°30 | 24°52 | 9°12 | 27°46 | 24°23 | 19°55 | 12°56 | 7°18 | 6°44 | 12°22 | 1°31 | W19 |
| T 20 | 17 55 11 | 29° 3'57 | 6 ₹ 28 | 1°53 | 13°33 | 25°33 | 9° 4 | 27°53 | 24°20 | 19°53 | 12°58 | 7°10 | 6°41 | 12°29 | 1°33 | T 20 |
| F 21 | 17 59 7 | 09 1'08 | 20° 6 | 1°18 | 14°36 | 26°13 | 8°57 | 28° 0 | 24°18 | 19°52 | 12°59 | 6°59 | 6°37 | 12°35 | 1°36 | F 21 |
| S 22 | 18 3 4 | 0°58'19 | 4 궁 5 | 0°42 | 15°39 | 26°53 | 8°49 | 28° 7 | 24°15 | 19°50 | 13° 0 | 6°48 | 6°34 | 12°42 | 1°38 | S 22 |
| S 23 | 18 7 1 | 1°55'30 | 18°20 | 0° 7 | 16°42 | 27°34 | 8°42 | 28°14 | 24°13 | 19°49 | 13° 2 | 6°36 | 6°31 | 12°49 | 1°41 | S 23 |
| M24 | 18 10 57 | 2°52'40 | 2≈45 | 29∏33 | 17°44 | 28°14 | 8°34 | 28°21 | 24°10 | 19°47 | 13° 3 | 6°26 | 6°28 | 12°55 | 1°44 | M24 |
| T 25 | 18 14 54 | 3°49'51 | 17°13 | 29° 0 | 18°47 | 28°54 | 8°27 | 28°29 | 24° 8 | 19°45 | 13° 4 | 6°19 | 6°25 | 13° 2 | 1°47 | T 25 |
| W26 | 18 18 50 | 4°47'01 | 1) 40 | 28°30 | 19°48 | 29°34 | 8°19 | 28°36 | 24° 6 | 19°44 | 13° 5 | 6°14 | 6°21 | 13° 9 | 1°50 | W26 |
| T 27 | 18 22 47 | 5°44'12 | 16° 1 | 28° 2 | 20°50 | 09୍ତ14 | 8°11 | 28°43 | 24° 3 | 19°42 | 13° 7 | 6°11 | 6°18 | 13°15 | 1°53 | T 27 |
| F 28 | 18 26 43 | 6°41'23 | 0 Υ 13 | 27°37 | 21°51 | 0°54 | 8° 4 | 28°51 | 24° 1 | 19°41 | 13° 8 | 6°11 | 6°15 | 13°22 | 1°57 | F 28 |
| S 29 | 18 30 40 | 7°38'34 | 14°15 | 27°16 | 22°52 | 1°34 | 7°56 | 28°58 | 23°59 | 19°39 | 13° 9 | 6°11 | 6°12 | 13°29 | 2° 0 | S 29 |
| S 30 | 18 34 36 | 8935'45 | 28 Y 6 | 26耳59 | 23 N 53 | 29514 | 7 七 48 | 299 6 | 23 × 756 | 19 × 38 | 13 I I11 | 6 Υ 10 | 6 Υ 9 | 13 m 35 | 2 ♀ 4 | S 30 |

Delta T = 41.63 sec

JULY 1652 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)f(| ¥ | Р | ß | ß | Ç | Ŷ, | Day |
|------|----------|------------------|------------------|--------|-----------------|-------|---------------|--------------|----------------|----------------|----------------|---------------|--------------|-----------------|---------------|------|
| M 1 | 18 38 33 | 9932'57 | 11847 | 26°R46 | 24 Ω 53 | 2954 | 7°R40 | 299513 | 23°R54 | 19°R36 | 13 Ⅱ 12 | 6°R 7 | 6 Υ 6 | 13 m 42 | 2 ≙ 7 | M 1 |
| T 2 | 18 42 30 | 10°30'10 | 25°18 | 26耳38 | 25°53 | 3°34 | 7 云 33 | 29°20 | 23 × 52 | 19 × 35 | 13°13 | 6 Υ 2 | 6° 2 | 13°48 | 2°11 | T 2 |
| W 3 | 18 46 26 | 11°27'22 | 8耳37 | 26°D35 | 26°53 | 4°14 | 7°25 | 29°28 | 23°49 | 19°33 | 13°14 | 5°54 | 5°59 | 13°55 | 2°15 | W 3 |
| T 4 | 18 50 23 | 12°24'35 | 21°45 | 26°37 | 27°52 | 4°54 | 7°17 | 29°36 | 23°47 | 19°32 | 13°16 | 5°44 | 5°56 | 14° 2 | 2°19 | T 4 |
| F 5 | 18 54 19 | 13°21'49 | 49541 | 26°44 | 28°51 | 5°34 | 7°10 | 29°43 | 23°45 | 19°30 | 13°17 | 5°31 | 5°53 | 14° 8 | 2°23 | F 5 |
| S 6 | 18 58 16 | 14°19'02 | 17°24 | 26°56 | 29°49 | 6°13 | 7° 2 | 29°51 | 23°42 | 19°29 | 13°18 | 5°19 | 5°50 | 14°15 | 2°27 | S 6 |
| S 7 | 19 2 12 | 15°16'16 | 29°53 | 27°13 | 0 m) 47 | 6°53 | 6°55 | 29°58 | 23°40 | 19°28 | 13°19 | 5° 6 | 5°47 | 14°22 | 2°31 | S 7 |
| M 8 | 19 6 9 | 16°13'30 | 12 N 9 | 27°36 | 1°45 | 7°33 | 6°47 | ON 6 | 23°38 | 19°26 | 13°21 | 4°55 | 5°43 | 14°28 | 2°35 | M 8 |
| T 9 | 19 10 5 | 17°10'44 | 24°13 | 28° 4 | 2°42 | 8°12 | 6°40 | 0°13 | 23°36 | 19°25 | 13°22 | 4°47 | 5°40 | 14°35 | 2°40 | T 9 |
| W10 | 19 14 2 | 18° 7'58 | 6Mp 8 | 28°38 | 3°39 | 8°52 | 6°32 | 0°21 | 23°34 | 19°23 | 13°23 | 4°41 | 5°37 | 14°42 | 2°44 | W10 |
| T 11 | 19 17 59 | 19° 5'12 | 17°57 | 29°17 | 4°35 | 9°32 | 6°25 | 0°29 | 23°32 | 19°22 | 13°24 | 4°38 | 5°34 | 14°48 | 2°49 | T 11 |
| F 12 | 19 21 55 | 20° 2'27 | 29°45 | 099 1 | 5°31 | 10°11 | 6°17 | 0°36 | 23°29 | 19°21 | 13°25 | 4°D37 | 5°31 | 14°55 | 2°54 | F 12 |
| S 13 | 19 25 52 | 20°59'42 | 11 ≏ 35 | 0°50 | 6°26 | 10°51 | 6°10 | 0°44 | 23°27 | 19°19 | 13°26 | 4°37 | 5°27 | 15° 2 | 2°59 | S 13 |
| S 14 | 19 29 48 | 21°56'57 | 23°34 | 1°45 | 7°21 | 11°30 | 6° 3 | 0°52 | 23°25 | 19°18 | 13°28 | 4°R37 | 5°24 | 15° 8 | 3° 3 | S 14 |
| M15 | 19 33 45 | 22°54'12 | 5 M 47 | 2°44 | 8°16 | 12°10 | 5°56 | 0°59 | 23°23 | 19°17 | 13°29 | 4°37 | 5°21 | 15°15 | 3° 8 | M15 |
| T 16 | 19 37 41 | 23°51'27 | 18°19 | 3°49 | 9° 9 | 12°49 | 5°49 | 1° 7 | 23°21 | 19°15 | 13°30 | 4°34 | 5°18 | 15°22 | 3°13 | T 16 |
| W17 | 19 41 38 | 24°48'43 | 1 ~ 14 | 4°58 | 10° 3 | 13°28 | 5°42 | 1°15 | 23°19 | 19°14 | 13°31 | 4°29 | 5°15 | 15°28 | 3°19 | W17 |
| T 18 | 19 45 34 | 25°46'00 | 14°36 | 6°13 | 10°55 | 14° 8 | 5°35 | 1°23 | 23°17 | 19°13 | 13°32 | 4°22 | 5°12 | 15°35 | 3°24 | T 18 |
| F 19 | 19 49 31 | 26°43'16 | 28°24 | 7°32 | 11°47 | 14°47 | 5°28 | 1°30 | 23°15 | 19°12 | 13°33 | 4°13 | 5° 8 | 15°42 | 3°29 | F 19 |
| S 20 | 19 53 28 | 27°40'34 | 12 る 38 | 8°56 | 12°39 | 15°26 | 5°22 | 1°38 | 23°14 | 19°11 | 13°34 | 4° 3 | 5° 5 | 15°48 | 3°35 | S 20 |
| S 21 | 19 57 24 | 28°37'52 | 27°12 | 10°24 | 13°29 | 16° 6 | 5°15 | 1°46 | 23°12 | 19° 9 | 13°35 | 3°54 | 5° 2 | 15°55 | 3°40 | S 21 |
| M22 | 20 1 21 | 29°35'10 | 11≈59 | 11°57 | 14°19 | 16°45 | 5° 9 | 1°54 | 23°10 | 19°8 | 13°36 | 3°45 | 4°59 | 16° 2 | 3°46 | M22 |
| T 23 | 20 5 17 | 0 £ 32′29 | 26°52 | 13°34 | 15° 9 | 17°24 | 5° 2 | 2° 1 | 23° 8 | 19° 7 | 13°37 | 3°38 | 4°56 | 16° 8 | 3°51 | T 23 |
| W24 | 20 9 14 | 1°29'50 | 11) (41 | 15°15 | 15°57 | 18° 3 | 4°56 | 2° 9 | 23° 6 | 19° 6 | 13°38 | 3°34 | 4°53 | 16°15 | 3°57 | W24 |
| T 25 | 20 13 10 | 2°27'11 | 26°20 | 16°59 | 16°45 | 18°42 | 4°50 | 2°17 | 23° 5 | 19° 5 | 13°39 | 3°33 | 4°49 | 16°22 | 4° 3 | T 25 |
| F 26 | 20 17 7 | 3°24'33 | 10 Y 45 | 18°47 | 17°32 | 19°21 | 4°44 | 2°25 | 23° 3 | 19° 4 | 13°40 | 3°D33 | 4°46 | 16°28 | 4° 9 | F 26 |
| S 27 | 20 21 3 | 4°21'56 | 24°53 | 20°38 | 18°19 | 20° 0 | 4°38 | 2°32 | 23° 1 | 19° 3 | 13°41 | 3°33 | 4°43 | 16°35 | 4°15 | S 27 |
| S 28 | 20 25 0 | 5°19'21 | 8 8 43 | 22°32 | 19° 4 | 20°39 | 4°33 | 2°40 | 23° 0 | 19° 2 | 13°42 | 3°R33 | 4°40 | 16°42 | 4°21 | S 28 |
| M29 | 20 28 57 | 6°16'47 | 22°16 | 24°28 | 19°49 | 21°18 | 4°27 | 2°48 | 22°58 | 19° 1 | 13°43 | 3°32 | 4°37 | 16°48 | 4°27 | M29 |
| T 30 | 20 32 53 | 7°14'14 | 5 Ⅱ 33 | 26°27 | 20°32 | 21°57 | 4°22 | 2°56 | 22°57 | 19° 0 | 13°44 | 3°29 | 4°33 | 16°55 | 4°33 | T 30 |
| W31 | 20 36 50 | 8 Ω 11'43 | 18 Ⅲ 36 | 28927 | 21 Mp 15 | 22936 | 4 ට 16 | 3 N 3 | 22 × 55 | 18 × 59 | 13 Ⅱ 45 | 3 Υ 23 | 4 Υ30 | 17 m) 1 | 4 Ω 39 | W31 |

Delta T = 41.57 sec Greg. Calendar

AUGUST 1652 GC 00:00 UT

| Day | Sid.t | 0 |) | ğ | · | ð | 4 | ħ | ᡟ | ¥ | Р | S. | ය | ţ | ę, | Day |
|------|----------|--------------------|----------------|----------------|----------------|----------------|----------------|---------------|-----------------|-----------------|----------------|---------------|---------------|-----------------|---------------|------|
| T 1 | 20 40 46 | 9 Ω 9'12 | 19925 | 0 Ω 28 | 21 m 57 | 239915 | 4°R11 | 3 Ω 11 | 22°R54 | 18°R58 | 13 Ⅱ 46 | 3°R16 | 4 Υ27 | 17 m) 8 | 4 º 46 | T 1 |
| F 2 | 20 44 43 | 10° 6'43 | 14° 1 | 2°31 | 22°38 | 23°54 | 4 පි 6 | 3°19 | 22 × 752 | 18 ∡ 757 | 13°46 | 3 ℃ 7 | 4°24 | 17°15 | 4°52 | F 2 |
| S 3 | 20 48 39 | 11° 4'16 | 26°27 | 4°34 | 23°17 | 24°33 | 4° 2 | 3°27 | 22°51 | 18°56 | 13°47 | 2°57 | 4°21 | 17°21 | 4°59 | S 3 |
| S 4 | 20 52 36 | 12° 1'49 | 8 Ω 41 | 6°38 | 23°56 | 25°12 | 3°57 | 3°34 | 22°50 | 18°56 | 13°48 | 2°48 | 4°18 | 17°28 | 5° 5 | S 4 |
| M 5 | 20 56 33 | 12°59'23 | 20°46 | 8°42 | 24°34 | 25°50 | 3°52 | 3°42 | 22°48 | 18°55 | 13°49 | 2°40 | 4°14 | 17°35 | 5°12 | M 5 |
| T 6 | 21 0 29 | 13°56'59 | 2 m 43 | 10°45 | 25°10 | 26°29 | 3°48 | 3°50 | 22°47 | 18°54 | 13°50 | 2°34 | 4°11 | 17°41 | 5°18 | T 6 |
| W 7 | 21 4 26 | 14°54'35 | 14°34 | 12°48 | 25°45 | 27° 8 | 3°44 | 3°57 | 22°46 | 18°53 | 13°51 | 2°30 | 4° 8 | 17°48 | 5°25 | W 7 |
| T 8 | 21 8 22 | 15°52'13 | 26°20 | 14°51 | 26°19 | 27°47 | 3°40 | 4° 5 | 22°45 | 18°53 | 13°51 | 2°28 | 4° 5 | 17°55 | 5°32 | T 8 |
| F 9 | 21 12 19 | 16°49'51 | 8 쇼 7 | 16°53 | 26°51 | 28°25 | 3°36 | 4°13 | 22°44 | 18°52 | 13°52 | 2°D28 | 4° 2 | 18° 1 | 5°39 | F 9 |
| S 10 | 21 16 15 | 17°47'31 | 19°57 | 18°54 | 27°23 | 29° 4 | 3°32 | 4°20 | 22°43 | 18°51 | 13°53 | 2°29 | 3°59 | 18° 8 | 5°46 | S 10 |
| S 11 | 21 20 12 | 18°45'12 | 1 M 55 | 20°54 | 27°52 | 29°42 | 3°29 | 4°28 | 22°42 | 18°51 | 13°53 | 2°31 | 3°55 | 18°15 | 5°53 | S 11 |
| M12 | 21 24 8 | 19°42'54 | 14° 7 | 22°52 | 28°21 | $0\Omega 21$ | 3°26 | 4°35 | 22°41 | 18°50 | 13°54 | 2°R32 | 3°52 | 18°21 | 6° 0 | M12 |
| T 13 | 21 28 5 | 20°40'37 | 26°37 | 24°50 | 28°47 | 1° 0 | 3°22 | 4°43 | 22°40 | 18°50 | 13°55 | 2°32 | 3°49 | 18°28 | 6° 7 | T 13 |
| W14 | 21 32 1 | 21°38'21 | 9 ~ 29 | 26°46 | 29°12 | 1°38 | 3°19 | 4°51 | 22°39 | 18°49 | 13°55 | 2°30 | 3°46 | 18°35 | 6°14 | W14 |
| T 15 | 21 35 58 | 22°36'06 | 22°48 | 28°41 | 29°36 | 2°17 | 3°17 | 4°58 | 22°38 | 18°49 | 13°56 | 2°27 | 3°43 | 18°41 | 6°22 | T 15 |
| F 16 | 21 39 55 | 23°33'53 | 6 ප 35 | 0 m)35 | 29°57 | 2°55 | 3°14 | 5° 6 | 22°37 | 18°48 | 13°57 | 2°22 | 3°39 | 18°48 | 6°29 | F 16 |
| S 17 | 21 43 51 | 24°31'40 | 20°51 | 2°27 | 0 ჲ 17 | 3°33 | 3°12 | 5°13 | 22°37 | 18°48 | 13°57 | 2°17 | 3°36 | 18°55 | 6°36 | S 17 |
| S 18 | 21 47 48 | 25°29'29 | 5≈31 | 4°18 | 0°35 | 4°12 | 3° 9 | 5°21 | 22°36 | 18°47 | 13°58 | 2°11 | 3°33 | 19° 1 | 6°44 | S 18 |
| M19 | 21 51 44 | 26°27'20 | 20°29 | 6° 8 | 0°51 | 4°50 | 3° 7 | 5°28 | 22°35 | 18°47 | 13°58 | 2° 6 | 3°30 | 19°8 | 6°51 | M19 |
| T 20 | 21 55 41 | 27°25'11 | 5) 37 | 7°56 | 1° 6 | 5°29 | 3° 6 | 5°35 | 22°35 | 18°46 | 13°59 | 2° 3 | 3°27 | 19°14 | 6°59 | T 20 |
| W21 | 21 59 37 | 28°23'04 | 20°45 | 9°43 | 1°18 | 6° 7 | 3° 4 | 5°43 | 22°34 | 18°46 | 13°59 | 2° 1 | 3°24 | 19°21 | 7° 6 | W21 |
| T 22 | 22 3 34 | 29°20'59 | 5 ℃ 43 | 11°29 | 1°28 | 6°45 | 3° 2 | 5°50 | 22°34 | 18°46 | 14° 0 | 2°D 1 | 3°20 | 19°28 | 7°14 | T 22 |
| F 23 | 22 7 30 | 0 m) 18'56 | 20°26 | 13°13 | 1°36 | 7°23 | 3° 1 | 5°57 | 22°33 | 18°46 | 14° 0 | 2° 1 | 3°17 | 19°34 | 7°22 | F 23 |
| S 24 | 22 11 27 | 1°16'54 | 4 8 48 | 14°56 | 1°42 | 8° 2 | 3° 0 | 6° 5 | 22°33 | 18°45 | 14° 1 | 2° 3 | 3°14 | 19°41 | 7°29 | S 24 |
| S 25 | 22 15 24 | 2°14'55 | 18°46 | 16°38 | 1°45 | 8°40 | 2°59 | 6°12 | 22°32 | 18°45 | 14° 1 | 2° 4 | 3°11 | 19°48 | 7°37 | S 25 |
| M26 | 22 19 20 | 3°12'57 | 2 II 21 | 18°18 | 1°R46 | 9°18 | 2°58 | 6°19 | 22°32 | 18°45 | 14° 1 | 2°R 5 | 3° 8 | 19°54 | 7°45 | M26 |
| T 27 | 22 23 17 | 4°11'02 | 15°35 | 19°57 | 1°45 | 9°56 | 2°58 | 6°26 | 22°32 | 18°45 | 14° 2 | 2° 4 | 3° 5 | 20° 1 | 7°53 | T 27 |
| W28 | 22 27 13 | 5° 9'08 | 28°29 | 21°35 | 1°42 | 10°34 | 2°57 | 6°33 | 22°32 | 18°45 | 14° 2 | 2° 2 | 3° 1 | 20° 8 | 8° 1 | W28 |
| T 29 | 22 31 10 | 6° 7'17 | 1199 6 | 23°12 | 1°36 | 11°12 | 2°D57 | 6°41 | 22°31 | 18°45 | 14° 3 | 2° 0 | 2°58 | 20°14 | 8° 9 | T 29 |
| F 30 | 22 35 6 | 7° 5'27 | 23°29 | 24°48 | 1°28 | 11°51 | 2°57 | 6°48 | 22°31 | 18°D45 | 14° 3 | 1°56 | 2°55 | 20°21 | 8°17 | F 30 |
| S 31 | 22 39 3 | 8mp 3'39 | 5 Ω 41 | 26 Mp 22 | 1₽18 | 12 Ω 29 | 2 ප් 58 | 6 Ω 55 | 22°D31 | 18 × 745 | 14 II 3 | 1 Υ 52 | 2 Υ 52 | 20 m/28 | 8 ≏ 25 | S 31 |

Delta T = 41.51 sec

SEPTEMBER 1652 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)ұ(| ¥ | В | ያ | ß | Ç | ę, | Day |
|------|----------|------------------|------------------|----------------|----------------|---------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|----------------|----------------|------|
| S 1 | 22 42 59 | 9 m 1'53 | 17 Ω 43 | 27 m 55 | 1°R 5 | 13 Ω 7 | 2 る 58 | 7 Ω 2 | 22 × 31 | 18 ∡ ³45 | 14 I I 3 | 1°R48 | 2 Υ 49 | 20 m 34 | 8 亞 33 | S 1 |
| M 2 | 22 46 56 | 10° 0'09 | 29°39 | 29°27 | 0 ჲ 50 | 13°45 | 2°59 | 7° 9 | 22°31 | 18°45 | 14° 4 | 1 Y 45 | 2°45 | 20°41 | 8°41 | M 2 |
| T 3 | 22 50 53 | 10°58'27 | 11 m 29 | 0 <u>ჲ</u> 58 | 0°32 | 14°23 | 2°59 | 7°16 | 22°31 | 18°45 | 14° 4 | 1°42 | 2°42 | 20°48 | 8°49 | T 3 |
| W 4 | 22 54 49 | 11°56'46 | 23°17 | 2°28 | 0°13 | 15° 1 | 3° 0 | 7°22 | 22°32 | 18°45 | 14° 4 | 1°41 | 2°39 | 20°54 | 8°57 | W 4 |
| T 5 | 22 58 46 | 12°55'07 | 5 ♀ 4 | 3°56 | 29 m 51 | 15°38 | 3° 2 | 7°29 | 22°32 | 18°45 | 14° 4 | 1°D41 | 2°36 | 21° 1 | 9° 6 | T 5 |
| F 6 | 23 2 42 | 13°53'30 | 16°52 | 5°23 | 29°27 | 16°16 | 3° 3 | 7°36 | 22°32 | 18°45 | 14° 4 | 1°42 | 2°33 | 21° 7 | 9°14 | F 6 |
| S 7 | 23 6 39 | 14°51'55 | 28°45 | 6°49 | 29° 1 | 16°54 | 3° 5 | 7°43 | 22°32 | 18°46 | 14° 5 | 1°43 | 2°30 | 21°14 | 9°22 | S 7 |
| S 8 | 23 10 35 | 15°50'22 | 10 ML 47 | 8°14 | 28°33 | 17°32 | 3° 6 | 7°50 | 22°33 | 18°46 | 14° 5 | 1°44 | 2°26 | 21°21 | 9°31 | S 8 |
| M 9 | 23 14 32 | 16°48'50 | 23° 0 | 9°37 | 28° 3 | 18°10 | 3° 8 | 7°56 | 22°33 | 18°46 | 14° 5 | 1°46 | 2°23 | 21°27 | 9°39 | M 9 |
| T 10 | 23 18 28 | 17°47'19 | 5 ₹ 29 | 10°59 | 27°31 | 18°48 | 3°10 | 8° 3 | 22°34 | 18°47 | 14° 5 | 1°46 | 2°20 | 21°34 | 9°47 | T 10 |
| W11 | 23 22 25 | 18°45'51 | 1 <u>8</u> °19 | 12°20 | 26°59 | 19°25 | 3°13 | 8° 9 | 22°34 | 18°47 | 14° 5 | 1°R47 | 2°17 | 21°41 | 9°56 | W11 |
| T 12 | 23 26 22 | 19°44'24 | 1 ਰ 31 | 13°39 | 26°24 | 20° 3 | 3°15 | 8°16 | 22°35 | 18°47 | 14° 5 | 1°47 | 2°14 | 21°47 | 10° 4 | T 12 |
| F 13 | 23 30 18 | 20°42'59 | 15°10 | 14°58 | 25°49 | 20°41 | 3°18 | 8°22 | 22°35 | 18°48 | 14°R 5 | 1°46 | 2°11 | 21°54 | 10°13 | F 13 |
| S 14 | 23 34 15 | 21°41'35 | 29°16 | 16°14 | 25°13 | 21°19 | 3°21 | 8°29 | 22°36 | 18°48 | 14° 5 | 1°45 | 2° 7 | 22° 1 | 10°21 | S 14 |
| S 15 | 23 38 11 | 22°40'14 | 13 ≈ 48 | 17°29 | 24°37 | 21°56 | 3°24 | 8°35 | 22°37 | 18°49 | 14° 5 | 1°44 | 2° 4 | 22° 7 | 10°30 | S 15 |
| M16 | 23 42 8 | 23°38'53 | 28°41 | 18°42 | 24° 0 | 22°34 | 3°27 | 8°41 | 22°37 | 18°49 | 14° 5 | 1°43 | 2° 1 | 22°14 | 10°38 | M16 |
| T 17 | 23 46 4 | 24°37'35 | 13) (49 | 19°54 | 23°23 | 23°11 | 3°30 | 8°47 | 22°38 | 18°50 | 14° 5 | 1°42 | 1°58 | 22°21 | 10°47 | T 17 |
| W18 | 23 50 1 | 25°36'19 | 29° 2 | 21° 4 | 22°46 | 23°49 | 3°34 | 8°54 | 22°39 | 18°50 | 14° 5 | 1°D42 | 1°55 | 22°27 | 10°55 | W18 |
| T 19 | 23 53 57 | 26°35'04 | 14 Y 12 | 22°12 | 22° 9 | 24°27 | 3°38 | 9° 0 | 22°40 | 18°51 | 14° 5 | 1°42 | 1°51 | 22°34 | 11° 4 | T 19 |
| F 20 | 23 57 54 | 27°33'52 | 29° 8 | 23°18 | 21°33 | 25° 4 | 3°42 | 9° 6 | 22°41 | 18°52 | 14° 4 | 1°42 | 1°48 | 22°41 | 11°13 | F 20 |
| S 21 | 0 151 | 28°32'42 | 13 8 45 | 24°22 | 20°58 | 25°42 | 3°46 | 9°12 | 22°42 | 18°52 | 14° 4 | 1°42 | 1°45 | 22°47 | 11°21 | S 21 |
| S 22 | 0 5 47 | 29°31'34 | 27°56 | 25°23 | 20°24 | 26°19 | 3°50 | 9°18 | 22°43 | 18°53 | 14° 4 | 1°43 | 1°42 | 22°54 | 11°30 | S 22 |
| M23 | 0 9 44 | 0 ჲ 30'28 | 11 Ⅱ 40 | 26°22 | 19°52 | 26°56 | 3°55 | 9°23 | 22°44 | 18°54 | 14° 4 | 1°43 | 1°39 | 23° 0 | 11°39 | M23 |
| T 24 | 0 13 40 | 1°29'25 | 24°58 | 27°18 | 19°20 | 27°34 | 3°59 | 9°29 | 22°45 | 18°55 | 14° 4 | 1°43 | 1°36 | 23° 7 | 11°47 | T 24 |
| W25 | 0 17 37 | 2°28'24 | 79 53 | 28°12 | 18°51 | 28°11 | 4° 4 | 9°35 | 22°47 | 18°55 | 14° 3 | 1°43 | 1°32 | 23°14 | 11°56 | W25 |
| T 26 | 0 21 33 | 3°27'26 | 20°26 | 29° 2 | 18°23 | 28°49 | 4° 9 | 9°40 | 22°48 | 18°56 | 14° 3 | 1°43 | 1°29 | 23°20 | 12° 5 | T 26 |
| F 27 | 0 25 30 | 4°26'30 | 2 Ω 43 | 29°49 | 17°58 | 29°26 | 4°14 | 9°46 | 22°49 | 18°57 | 14° 3 | 1°43 | 1°26 | 23°27 | 12°14 | F 27 |
| S 28 | 0 29 26 | 5°25'36 | 14°46 | 0 M .32 | 17°34 | 0 Mg 3 | 4°20 | 9°52 | 22°51 | 18°58 | 14° 3 | 1°44 | 1°23 | 23°34 | 12°22 | S 28 |
| S 29 | 0 33 23 | 6°24'44 | 26°41 | 1°11 | 17°13 | 0°41 | 4°25 | 9°57 | 22°52 | 18°59 | 14° 2 | 1°44 | 1°20 | 23°40 | 12°31 | S 29 |
| M30 | 0 37 20 | 7 ≏ 23'55 | 8 m 31 | 1 M .45 | 16 M 53 | 1 m 18 | 4 ට 31 | 10 N 2 | 22 × 754 | 19 × 0 | 14 I I 2 | 1 Υ 45 | 1 Υ 16 | 23 m 47 | 12 ≏ 40 | M30 |

Delta T = 41.45 sec

Greg. Calendar

OCTOBER 1652 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| ħ | В | u | v | Ç | ę, | Day |
|--------------|--------------------|----------------------|------------------------|----------------|----------------|----------------|---------------|----------------|-----------------|-----------------|----------------|---------------|------------------|----------------|----------------|--------------|
| T 1 | 0 41 16 | 8 ₾ 23'07 | 20 m /18 | 2M15 | 16°R37 | 1 m 55 | 4 る 37 | 10 N 8 | 22 × 155 | 19 % 1 | 14°R 2 | 1 Y 45 | 1 Υ 13 | 23 Mp 54 | 12 ≏ 49 | T 1 |
| W 2 | 0 45 13 | 9°22'22 | 2 ₾ 5 | 2°39 | 16 m 22 | 2°32 | 4°43 | 10°13 | 22°57 | 19° 2 | 14Ⅱ 1 | 1°R45 | 1°10 | 24° 0 | 12°57 | W 2 |
| T 3 | 0 49 9 | 10°21'39 | 13°56 | 2°57 | 16°10 | 3°10 | 4°49 | 10°18 | 22°58 | 19° 3 | 14° 1 | 1°45 | 1° 7 | 24° 7 | 13° 6 | T 3 |
| F 4 | 0 53 6 | 11°20'58 | 25°51 | 3°10 | 16° 1 | 3°47 | 4°55 | 10°23 | 23° 0 | 19° 4 19° 5 | 14° 0 | 1°44 | 1° 4 1° 1 | 24°14 | 13°15 | F 4 |
| S 5 | 0 57 2 | 12°20'19 | 7 M 53 | 3°R15 | 15°53 | 4°24 | 5° 2 | 10°28 | 23° 2 | | 14° 0 | 1°43 | | 24°20 | 13°24 | S 5 |
| S 6 | 1 0 59 | 13°19'42 | 20° 3 | 3°13 | 15°49 | 5° 1 | 5° 8 | 10°33 | 23° 3 | 19° 7 | 13°59 | 1°41 | 0°57 | 24°27 | 13°33 | S 6 |
| M 7 | 1 4 55 | 14°19'07 | 2 ₹ 26 | 3° 4 | 15°D46 | 5°38 | 5°15 | 10°38 | 23° 5 | 19° 8 | 13°59 | 1°40 | 0°54 | 24°34 | 13°41 | M 7 |
| T 8 | 1 8 52 | 15°18'33 | 15° 1 | 2°47 | 15°47 | 6°15 | 5°22 | 10°42 | 23° 7 | 19° 9 | 13°58 | 1°38 | 0°51 | 24°40 | 13°50 | T 8 |
| W 9 | 1 12 49 | 16°18'02 | 27°53 | 2°21 | 15°49 | 6°52 | 5°29 | 10°47 | 23° 9 | 19°10 19°11 | 13°58 | 1°37 | 0°48 | 24°47 | 13°59 | W 9 |
| T 10 F 11 | 1 16 45 1 20 42 | 17°17'32 18°17'05 | 11 る 3 24°34 | 1°47 1° 4 | 15°54 16° 1 | 7°29 8° 6 | 5°36 5°44 | 10°52 10°56 | 23°11 23°13 | 19°11 19°13 | 13°57 13°57 | 1°D36 1°36 | 0°45 0°42 | 24°53 25° 0 | 14° 8 14°17 | T 10 F 11 |
| S 12 | 1 20 42 | 18 17 03 19°16'39 | 24 34 8 ≈ 26 | 0°13 | 16°10 | 8°43 | 5°51 | 10° 36 | 23°15 | 19 13 19°14 | 13°56 | 1°36 | 0°38 | 25° 7 | 14 17 14°25 | S 12 |
| | | | | | | | | | | - | | | | | | |
| S 13 | 1 28 35 | 20°16'14 | 22°41 | 29 ₽ 15 | 16°22 | 9°20 | 5°59 | 11° 5 | 23°17 | 19°15 | 13°56 | 1°38 | 0°35 | 25°13 | 14°34 | S 13 |
| M14 | 1 32 31 | 21°15'51 | 7) €17 | 28°10 | 16°35 | 9°57 | 6° 7 | 11° 9 | 23°19 | 19°17 | 13°55 | 1°39 | 0°32 | 25°20 | 14°43 | M14 |
| T 15 W16 | 1 36 28 | 22°15'30 23°15'11 | 22° 9 7 Ƴ 11 | 27° 0 25°46 | 16°51 17° 8 | 10°34 11°10 | 6°15 6°23 | 11°13 11°17 | 23°21 23°23 | 19°18 19°20 | 13°54 13°54 | 1°40 | 0°29 0°26 | 25°27 25°33 | 14°52 15° 0 | T 15 W16 |
| T 17 | 1 40 24 1 44 21 | 23°13'11 24°14'54 | 22°15 | 25°46 24°31 | 17° 8 | 11°10 | 6°31 | 11°17 | 23°26 | 19°20 | 13°53 | 1°R40 1°39 | 0°28 | 25°40 | 15° 9 | T 17 |
| F 18 | 1 44 21 | 25°14'39 | 7 8 12 | 23°16 | 17°50 | 12°24 | 6°39 | 11°25 | 23°28 | 19°23 | 13°52 | 1°37 | 0°19 | 25°47 | 15°18 | F 18 |
| S 19 | 1 52 14 | 26°14'26 | 21°54 | 22° 4 | 18°13 | 13° 1 | 6°48 | 11°29 | 23°30 | 19°24 | 13°51 | 1°34 | 0°16 | 25°53 | 15°27 | S 19 |
| | | | | | | | | | | - | | | | | | |
| S 20 M21 | 1 56 11 2 0 7 | 27°14'15 28°14'06 | 6 Ⅱ 14 20° 7 | 20°58 19°58 | 18°38 19° 5 | 13°37 14°14 | 6°56 7°5 | 11°32 11°36 | 23°32 23°35 | 19°26 19°27 | 13°51 13°50 | 1°30 1°26 | 0°13 0°10 | 26° 0 26° 7 | 15°35 15°44 | S 20 M21 |
| T 22 | 2 4 4 | 28°14'00 29°14'00 | 3 9 33 | 19°58 | 19°34 | 14°14 14°51 | 7° 14 | 11°36 | 23°37 | 19°27 | 13°49 | 1°23 | 0° 10 | 26°13 | 15°44 15°53 | T 22 |
| W23 | 2 4 4 2 8 0 | 0ML13'56 | 16°33 | 18°27 | 20° 4 | 15°27 | 7°23 | 11°43 | 23°40 | 19°29 | 13°48 | 1°21 | 0° 3 | 26°20 | 16° 1 | W23 |
| T 24 | 2 11 57 | 1°13'54 | 29° 8 | 17°57 | 20°36 | 16° 4 | 7°32 | 11°46 | 23°42 | 19°32 | 13°48 | 1°D20 | 0° 0 | 26°27 | 16°10 | T 24 |
| F 25 | 2 15 53 | 2°13'54 | 11Ω25 | 17°39 | 21° 9 | 16°40 | 7°41 | 11°49 | 23°45 | 19°34 | 13°47 | 1°20 | 29) (57 | 26°33 | 16°18 | F 25 |
| S 26 | 2 19 50 | 3°13'56 | 23°26 | 17°D32 | 21°44 | 17°17 | 7°51 | 11°52 | 23°47 | 19°35 | 13°46 | 1°22 | 29°54 | 26°40 | 16°27 | S 26 |
| S 27 | 2 23 47 | 4°14'00 | 5 m)18 | 17°37 | 22°20 | 17°53 | 8° 0 | 11°55 | 23°50 | 19°37 | 13°45 | 1°24 | 29°51 | 26°46 | 16°36 | S 27 |
| M28 | 2 27 43 | 5°14'07 | 17° 5 | 17°53 | 22°57 | 18°30 | 8°10 | 11°58 | 23°53 | 19°39 | 13°44 | 1°25 | 29°48 | 26°53 | 16°44 | M28 |
| T 29 | 2 31 40 | 6°14'15 | 28°52 | 18°18 | 23°36 | 19° 6 | 8°20 | 12° 1 | 23°55 | 19°41 | 13°43 | 1°R26 | 29°44 | 27° 0 | 16°53 | T 29 |
| W30 | 2 35 36 | 7°14'25 | 10 Ω 42 | 18°53 | 24°15 | 19°43 | 8°29 | 12° 4 | 23°58 | 19°42 | 13°43 | 1°26 | 29°41 | 27° 6 | 17° 1 | W30 |
| T 31 | 2 39 33 | 8ML14'38 | 22 ॒ 38 | 19 ≏ 36 | 24 m 57 | 20 m 19 | 8 පි39 | 120 6 | 24 × 1 | 19 × 744 | 13 Ⅱ 42 | 1 Y 23 | 29) 38 | 27 m 13 | 17 ≏ 10 | T 31 |

Delta T = 41.40 sec

NOVEMBER 1652 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| ¥ | Р | ß | v | Ç | o k | Day |
|-------------|--------------------|----------------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|-------------|
| F 1 | 2 43 29 | 9ML14'52 | 4M43 | 20 ≏ 27 | 25 m 39 | 20 m 55 | 8 ප 50 | 12 N 9 | 24 ×7 4 | 19 ×7 46 | 13°R41 | 1°R19 | 29 米 35 | 27 m 20 | 17 ≏ 18 | F 1 |
| S 2 | 2 47 26 | 10°15'08 | 16°59 | 21°25 | 26°22 | 21°32 | 9° 0 | 12°11 | 24° 7 | 19°48 | 13 Ⅱ 40 | 1 ⋎ 14 | 29°32 | 27°26 | 17°26 | S 2 |
| S 3 | 2 51 22 | 11°15'26 | 29°26 | 22°28 | 27° 6 | 22° 8 | 9°10 | 12°13 | 24° 9 | 19°50 | 13°39 | 1° 6 | 29°28 | 27°33 | 17°35 | S 3 |
| M 4 | 2 55 19 | 12°15'46 | 12 ⋌ 7 4 | 23°37 | 27°52 | 22°44 | 9°20 | 12°16 | 24°12 | 19°52 | 13°38 | 0°59 | 29°25 | 27°40 | 17°43 | M 4 |
| T 5 | 2 59 15 | 13°16'08 | 2 <u>4</u> °56 | 24°49 | 28°38 | 23°20 | 9°31 | 12°18 | 24°15 | 19°53 | 13°37 | 0°51 | 29°22 | 27°46 | 17°51 | T 5 |
| W 6 | 3 3 12 | 14°16'30 | 8중 0 | 26° 6 | 29°25 | 23°56 | 9°42 | 12°20 | 24°18 | 19°55 | 13°36 | 0°45 | 29°19 | 27°53 | 18° 0 | W 6 |
| T 7 | 3 7 9 | 15°16'55 | 21°17 | 27°26 | 0 ₾ 13 | 24°32 | 9°52 | 12°21 | 24°21 | 19°57 | 13°35 | 0°40 | 29°16 | 28° 0 | 18° 8 | T 7 |
| F 8 S 9 | 3 11 5 | 16°17'21 | 4 ≈ 48 | 28°48 | 1° 2 | 25° 8 25°44 | 10° 3 10°14 | 12°23 | 24°24 | 19°59 20° 1 | 13°34 | 0°38 | 29°13 29° 9 | 28° 6 28°13 | 18°16 | F 8 S 9 |
| , | 3 15 2 | 17°17'48 | 18°34 | 0 M _13 | 1°52 | | - | 12°25 | 24°27 | - | 13°33 | 0°D37 | | | 18°24 | ~ ′ |
| S 10 | 3 18 58 | 18°18'16 | 2) (34 | 1°40 | 2°43 | 26°20 | 10°25 | 12°26 | 24°30 | 20° 3 | 13°32 | 0°38 | 29° 6 | 28°19 | 18°32 | S 10 |
| M11 | 3 22 55 | 19°18'45 | 16°50 | 3° 8 | 3°34 | 26°56 | 10°36 | 12°28 | 24°33 | 20° 5 | 13°31 | 0°39 | 29° 3 | 28°26 | 18°40 | M11 |
| T 12 | 3 26 51 | 20°19'16 | 1Υ18 | 4°37 | 4°26 | 27°32 | 10°47 | 12°29 | 24°37 | 20° 7 | 13°30 | 0°R40 | 29° 0 | 28°33 | 18°48 | T 12 |
| W13 T 14 | 3 30 48 3 34 45 | 21°19'48 22°20'22 | 15°56 0 8 39 | 6° 8 7°39 | 5°19 6°13 | 28° 8 28°44 | 10°59 11°10 | 12°30 12°31 | 24°40 24°43 | 20° 9 20°11 | 13°29 13°28 | 0°39 0°35 | 28°57 28°54 | 28°39 28°46 | 18°56 19°4 | W13 T 14 |
| F 15 | 3 34 43 | 22°20'57 | 15°20 | 9°11 | 7° 7 | 28 44 29°20 | 11°22 | 12°32 | 24°46 | 20°13 | 13°27 | 0°30 | 28°50 | 28°53 | 19°12 | F 15 |
| S 16 | 3 42 38 | 24°21'33 | 29°52 | 10°44 | 8° 2 | 29°55 | 11°33 | 12°33 | 24°49 | 20°15 | 13°25 | 0°22 | 28°47 | 28°59 | 19°20 | S 16 |
| S 17 | 3 46 34 | 25°22'11 | 14 I I 8 | 12°17 | 8°58 | ე <u>ჲ</u> 31 | 11°45 | 12°34 | 24°53 | 20°17 | 13°24 | 0°13 | 28°44 | 29° 6 | 19°28 | S 17 |
| M18 | 3 50 31 | 26°22'51 | 28° 1 | 13°50 | 9°54 | 1° 7 | 11°57 | 12°34 | 24°56 | 20°20 | 13°23 | 0° 3 | 28°41 | 29°13 | 19°35 | M18 |
| T 19 | 3 54 27 | 27°23'32 | 119930 | 15°24 | 10°51 | 1°42 | 12° 9 | 12°35 | 24°59 | 20°22 | 13°22 | 29) 54 | 28°38 | 29°19 | 19°43 | T 19 |
| W20 | 3 58 24 | 28°24'14 | 24°34 | 16°57 | 11°48 | 2°18 | 12°20 | 12°35 | 25° 2 | 20°24 | 13°21 | 29°47 | 28°34 | 29°26 | 19°51 | W20 |
| T 21 | 4 2 20 | 29°24'58 | 7 Ω 13 | 18°31 | 12°46 | 2°53 | 12°32 | 12°36 | 25° 6 | 20°26 | 13°20 | 29°42 | 28°31 | 29°33 | 19°58 | T 21 |
| F 22 | 4 6 17 | 0 ₹ 25'44 | 19°32 | 20° 5 | 13°44 | 3°29 | 12°45 | 12°36 | 25° 9 | 20°28 | 13°19 | 29°39 | 28°28 | 29°39 | 20° 6 | F 22 |
| S 23 | 4 10 14 | 1°26'31 | 1 m 35 | 21°39 | 14°43 | 4° 4 | 12°57 | 12°R36 | 25°13 | 20°30 | 13°18 | 29°D39 | 28°25 | 29°46 | 20°13 | S 23 |
| S 24 | 4 14 10 | 2°27'20 | 13°27 | 23°14 | 15°43 | 4°39 | 13° 9 | 12°36 | 25°16 | 20°32 | 13°17 | 29°39 | 28°22 | 29°52 | 20°21 | S 24 |
| M25 | 4 18 7 | 3°28'10 | 25°14 | 24°48 | 16°43 | 5°15 | 13°21 | 12°36 | 25°19 | 20°35 | 13°15 | 29°R40 | 28°19 | 29°59 | 20°28 | M25 |
| T 26 | 4 22 3 | 4°29'02 | 7 ♀ 2 | 26°22 | 17°43 | 5°50 | 13°34 | 12°35 | 25°23 | 20°37 | 13°14 | 29°40 | 28°15 | 0 호 6 | 20°35 | T 26 |
| W27 | 4 26 0 | 5°29'55 | 18°54 | 27°56 | 18°44 | 6°25 | 13°46 | 12°35 | 25°26 | 20°39 | 13°13 | 29°38 | 28°12 | 0°12 | 20°43 | W27 |
| T 28 | 4 29 56 | 6°30'49 | 0 M .57 | 29°30 | 19°45 | 7° 0 | 13°59 | 12°34 | 25°30 | 20°41 | 13°12 | 29°33 | 28° 9 | 0°19 | 20°50 | T 28 |
| F 29 | 4 33 53 | 7°31'45 | 13°12 | 1 🗗 4 | 20°47 | 7°36 | 14°11 | 12°34 | 25°33 | 20°43 | 13°11 | 29°26 | 28° 6 | 0°26 | 20°57 | F 29 |
| S 30 | 4 37 49 | 8 . ₹32'42 | 25 M 41 | 2 ₹ 38 | 21 ≏ 49 | 8 亞 11 | 14 궁 24 | 12 N 33 | 25 × 37 | 20 х 46 | 13 Ⅱ 10 | 29 米 16 | 28 米 3 | 0 ჲ 32 | 21 ♀ 4 | S 30 |

Delta T = 41.34 sec Greg. Calendar

DECEMBER 1652 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ [™] | 4 | ħ | ᡟ | ¥ | Р | ß | ಬ | Ç | ę, | Day |
|------|---------|-------------------|----------------|---------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|---------------|----------------|------|
| S 1 | 4 41 46 | 9 ∡ ³33'40 | 8 ∡ 726 | 4 ₹ 12 | 22 ≏ 51 | 8 ≏ 46 | 14 궁 37 | 12°R32 | 25 ∡ 140 | 20 ∡ 148 | 13°R 9 | 29°R 4 | 28 米 0 | 0 ჲ 39 | 21 ≙ 11 | S 1 |
| M 2 | 4 45 43 | 10°34'39 | 2 <u>1°</u> 27 | 5°46 | 23°54 | 9°21 | 14°49 | 12 N 31 | 25°44 | 20°50 | 13 II 7 | 28 米 51 | 27°56 | 0°46 | 21°18 | M 2 |
| T 3 | 4 49 39 | 11°35'39 | 4 ⋜ 41 | 7°20 | 24°57 | 9°55 | 15° 2 | 12°30 | 25°47 | 20°52 | 13° 6 | 28°38 | 27°53 | 0°52 | 21°25 | T 3 |
| W 4 | 4 53 36 | 12°36'39 | 18° 8 | 8°54 | 26° 0 | 10°30 | 15°15 | 12°29 | 25°51 | 20°55 | 13° 5 | 28°27 | 27°50 | 0°59 | 21°31 | W 4 |
| T 5 | 4 57 32 | 13°37'41 | 1≈44 | 10°28 | 27° 4 | 11° 5 | 15°28 | 12°28 | 25°54 | 20°57 | 13° 4 | 28°19 | 27°47 | 1° 6 | 21°38 | T 5 |
| F 6 | 5 1 29 | 14°38'43 | 15°29 | 12° 3 | 28° 8 | 11°40 | 15°41 | 12°26 | 25°58 | 20°59 | 13° 3 | 28°13 | 27°44 | 1°12 | 21°45 | F 6 |
| S 7 | 5 5 25 | 15°39'45 | 29°20 | 13°37 | 29°13 | 12°14 | 15°54 | 12°25 | 26° 1 | 21° 1 | 13° 2 | 28°10 | 27°40 | 1°19 | 21°51 | S 7 |
| S 8 | 5 9 22 | 16°40'48 | 13 ∺ 18 | 15°11 | 0 M .17 | 12°49 | 16° 7 | 12°23 | 26° 5 | 21° 4 | 13° 0 | 28°D 9 | 27°37 | 1°26 | 21°58 | S 8 |
| M 9 | 5 13 18 | 17°41'52 | 27°22 | 16°45 | 1°22 | 13°24 | 16°20 | 12°21 | 26° 9 | 21° 6 | 12°59 | 28°R 9 | 27°34 | 1°32 | 22° 4 | M 9 |
| T 10 | 5 17 15 | 18°42'56 | 11 Y 32 | 18°20 | 2°28 | 13°58 | 16°34 | 12°20 | 26°12 | 21° 8 | 12°58 | 28° 9 | 27°31 | 1°39 | 22°10 | T 10 |
| W11 | 5 21 12 | 19°44'00 | 25°46 | 19°54 | 3°33 | 14°32 | 16°47 | 12°18 | 26°16 | 21°10 | 12°57 | 28° 7 | 27°28 | 1°45 | 22°17 | W11 |
| T 12 | 5 25 8 | 20°45'05 | 108 1 | 21°29 | 4°39 | 15° 7 | 17° 0 | 12°16 | 26°19 | 21°13 | 12°56 | 28° 2 | 27°25 | 1°52 | 22°23 | T 12 |
| F 13 | 5 29 5 | 21°46'10 | 24°15 | 23° 4 | 5°45 | 15°41 | 17°14 | 12°13 | 26°23 | 21°15 | 12°55 | 27°54 | 27°21 | 1°59 | 22°29 | F 13 |
| S 14 | 5 33 1 | 22°47'15 | 8 Ⅱ 23 | 24°39 | 6°52 | 16°15 | 17°27 | 12°11 | 26°27 | 21°17 | 12°54 | 27°43 | 27°18 | 2° 5 | 22°35 | S 14 |
| S 15 | 5 36 58 | 23°48'21 | 22°20 | 26°14 | 7°58 | 16°49 | 17°41 | 12° 9 | 26°30 | 21°20 | 12°52 | 27°30 | 27°15 | 2°12 | 22°41 | S 15 |
| M16 | 5 40 54 | 24°49'28 | 6 95 0 | 27°50 | 9° 5 | 17°23 | 17°54 | 12° 6 | 26°34 | 21°22 | 12°51 | 27°17 | 27°12 | 2°19 | 22°47 | M16 |
| T 17 | 5 44 51 | 25°50'35 | 19°21 | 29°25 | 10°12 | 17°58 | 18° 8 | 12° 4 | 26°38 | 21°24 | 12°50 | 27° 4 | 27° 9 | 2°25 | 22°52 | T 17 |
| W18 | 5 48 48 | 26°51'43 | $2\Omega 20$ | 1ਰ 1 | 11°19 | 18°31 | 18°21 | 12° 1 | 26°41 | 21°26 | 12°49 | 26°54 | 27° 6 | 2°32 | 22°58 | W18 |
| T 19 | 5 52 44 | 27°52'51 | 14°58 | 2°37 | 12°27 | 19° 5 | 18°35 | 11°58 | 26°45 | 21°29 | 12°48 | 26°46 | 27° 2 | 2°39 | 23° 4 | T 19 |
| F 20 | 5 56 41 | 28°53'59 | 27°18 | 4°14 | 13°34 | 19°39 | 18°49 | 11°56 | 26°48 | 21°31 | 12°47 | 26°40 | 26°59 | 2°45 | 23° 9 | F 20 |
| S 21 | 6 0 37 | 29°55'08 | 9 m 22 | 5°50 | 14°42 | 20°13 | 19° 2 | 11°53 | 26°52 | 21°33 | 12°46 | 26°38 | 26°56 | 2°52 | 23°14 | S 21 |
| S 22 | 6 4 34 | 0356'18 | 21°15 | 7°27 | 15°50 | 20°46 | 19°16 | 11°50 | 26°56 | 21°35 | 12°45 | 26°37 | 26°53 | 2°59 | 23°20 | S 22 |
| M23 | 6 8 30 | 1°57'28 | 3 ॒ 3 | 9° 4 | 16°59 | 21°20 | 19°30 | 11°47 | 26°59 | 21°38 | 12°43 | 26°37 | 26°50 | 3° 5 | 23°25 | M23 |
| T 24 | 6 12 27 | 2°58'39 | 14°51 | 10°41 | 18° 7 | 21°54 | 19°44 | 11°43 | 27° 3 | 21°40 | 12°42 | 26°36 | 26°46 | 3°12 | 23°30 | T 24 |
| W25 | 6 16 23 | 3°59'49 | 26°45 | 12°18 | 19°16 | 22°27 | 19°57 | 11°40 | 27° 6 | 21°42 | 12°41 | 26°35 | 26°43 | 3°19 | 23°35 | W25 |
| T 26 | 6 20 20 | 5° 1'01 | 8 M .50 | 13°56 | 20°25 | 23° 0 | 20°11 | 11°37 | 27°10 | 21°44 | 12°40 | 26°30 | 26°40 | 3°25 | 23°40 | T 26 |
| F 27 | 6 24 17 | 6° 2'13 | 21°10 | 15°33 | 21°34 | 23°34 | 20°25 | 11°33 | 27°14 | 21°47 | 12°39 | 26°23 | 26°37 | 3°32 | 23°45 | F 27 |
| S 28 | 6 28 13 | 7° 3'25 | 3 ∡ 149 | 17°11 | 22°43 | 24° 7 | 20°39 | 11°30 | 27°17 | 21°49 | 12°38 | 26°14 | 26°34 | 3°38 | 23°49 | S 28 |
| S 29 | 6 32 10 | 8° 4'37 | 16°49 | 18°49 | 23°52 | 24°40 | 20°53 | 11°26 | 27°21 | 21°51 | 12°37 | 26° 2 | 26°31 | 3°45 | 23°54 | S 29 |
| M30 | 6 36 6 | 9° 5'49 | 8 と | 20°27 | 25° 2 | 25°13 | 21° 7 | 11°22 | 27°24 | 21°53 | 12°36 | 25°49 | 26°27 | 3°52 | 23°59 | M30 |
| T 31 | 6 40 3 | 10궁 7'01 | 13 る 46 | 22중 4 | 26 M 11 | 25 ≏ 46 | 21 궁 21 | 11 Ω 19 | 27 ∡ 728 | 21 ~ 55 | 12 II 35 | 25 ₩ 36 | 26 米 24 | 3 ₾ 58 | 24 ♀ 3 | T 31 |

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JANUARY 1653 GC 00:00 UT

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|------|---------|----------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|------|
| W 1 | 6 43 59 | 11궁 8'14 | 27 る 39 | 23 ~ 342 | 27 M 21 | 26 ₽ 18 | 21 る 35 | 11°R15 | 27 × 32 | 21 ~ 58 | 12°R34 | 25°R24 | 26) 21 | 4 º 5 | 24 ♀ 7 | W 1 |
| T 2 | 6 47 56 | 12° 9'25 | 11≈42 | 25°19 | 28°31 | 26°51 | 21°49 | 11 Ω 11 | 27°35 | 22° 0 | 12 Ⅲ 33 | 25 米 15 | 26°18 | 4°12 | 24°12 | T 2 |
| F 3 | 6 51 52 | 13°10'37 | 25°52 | 26°56 | 29°41 | 27°24 | 22° 3 | 11° 7 | 27°39 | 22° 2 | 12°32 | 25°10 | 26°15 | 4°18 | 24°16 | F 3 |
| S 4 | 6 55 49 | 14°11'48 | 10 米 3 | 28°32 | 0 ₹ 51 | 27°56 | 22°17 | 11° 3 | 27°42 | 22° 4 | 12°31 | 25° 6 | 26°12 | 4°25 | 24°20 | S 4 |
| S 5 | 6 59 46 | 15°12'58 | 24°14 | 0≈ 8 | 2° 1 | 28°29 | 22°31 | 10°59 | 27°46 | 22° 6 | 12°30 | 25°D 6 | 26° 8 | 4°32 | 24°24 | S 5 |
| M 6 | 7 3 42 | 16°14'08 | 8 Ƴ 22 | 1°42 | 3°11 | 29° 1 | 22°46 | 10°54 | 27°49 | 22° 8 | 12°29 | 25° 6 | 26° 5 | 4°38 | 24°27 | M 6 |
| T 7 | 7 7 39 | 17°15'17 | 22°26 | 3°15 | 4°22 | 29°33 | 23° 0 | 10°50 | 27°53 | 22°10 | 12°28 | 25°R 6 | 26° 2 | 4°45 | 24°31 | T 7 |
| W 8 | 7 11 35 | 18°16'25 | 6826 | 4°46 | 5°32 | OM 5 | 23°14 | 10°46 | 27°56 | 22°12 | 12°27 | 25° 5 | 25°59 | 4°52 | 24°35 | W 8 |
| T 9 | 7 15 32 | 19°17'33 | 20°20 | 6°16 | 6°43 | 0°37 | 23°28 | 10°42 | 27°59 | 22°15 | 12°26 | 25° 1 | 25°56 | 4°58 | 24°38 | T 9 |
| F 10 | 7 19 28 | 20°18'40 | 4 I I 8 | 7°43 | 7°53 | 1° 9 | 23°42 | 10°37 | 28° 3 | 22°17 | 12°26 | 24°54 | 25°52 | 5° 5 | 24°41 | F 10 |
| S 11 | 7 23 25 | 21°19'47 | 17°48 | 9° 7 | 9° 4 | 1°41 | 23°56 | 10°33 | 28° 6 | 22°19 | 12°25 | 24°45 | 25°49 | 5°12 | 24°45 | S 11 |
| S 12 | 7 27 21 | 22°20'52 | 19518 | 10°28 | 10°15 | 2°12 | 24°10 | 10°28 | 28°10 | 22°21 | 12°24 | 24°35 | 25°46 | 5°18 | 24°48 | S 12 |
| M13 | 7 31 18 | 23°21'57 | 14°35 | 11°45 | 11°26 | 2°44 | 24°24 | 10°24 | 28°13 | 22°23 | 12°23 | 24°23 | 25°43 | 5°25 | 24°51 | M13 |
| T 14 | 7 35 15 | 24°23'02 | 27°37 | 12°57 | 12°37 | 3°15 | 24°39 | 10°19 | 28°16 | 22°25 | 12°22 | 24°12 | 25°40 | 5°31 | 24°54 | T 14 |
| W15 | 7 39 11 | 25°24'05 | 10 Ω 23 | 14° 3 | 13°49 | 3°46 | 24°53 | 10°14 | 28°20 | 22°27 | 12°21 | 24° 3 | 25°37 | 5°38 | 24°56 | W15 |
| T 16 | 7 43 8 | 26°25'08 | 22°52 | 15° 3 | 15° 0 | 4°18 | 25° 7 | 10°10 | 28°23 | 22°29 | 12°20 | 23°56 | 25°33 | 5°45 | 24°59 | T 16 |
| F 17 | 7 47 4 | 27°26'11 | 5 m 7 | 15°56 | 16°11 | 4°49 | 25°21 | 10° 5 | 28°26 | 22°31 | 12°20 | 23°52 | 25°30 | 5°51 | 25° 2 | F 17 |
| S 18 | 7 51 1 | 28°27'12 | 17° 9 | 16°41 | 17°23 | 5°20 | 25°35 | 10° 0 | 28°30 | 22°33 | 12°19 | 23°50 | 25°27 | 5°58 | 25° 4 | S 18 |
| S 19 | 7 54 57 | 29°28'14 | 29° 2 | 17°18 | 18°34 | 5°50 | 25°49 | 9°56 | 28°33 | 22°34 | 12°18 | 23°D50 | 25°24 | 6° 5 | 25° 7 | S 19 |
| M20 | 7 58 54 | 0≈29'14 | 10 ≏ 50 | 17°44 | 19°46 | 6°21 | 26° 4 | 9°51 | 28°36 | 22°36 | 12°17 | 23°51 | 25°21 | 6°11 | 25° 9 | M20 |
| T 21 | 8 2 50 | 1°30'14 | 22°38 | 18° 1 | 20°57 | 6°51 | 26°18 | 9°46 | 28°39 | 22°38 | 12°17 | 23°52 | 25°18 | 6°18 | 25°11 | T 21 |
| W22 | 8 6 47 | 2°31'13 | 4 M .32 | 18°R 6 | 22° 9 | 7°22 | 26°32 | 9°41 | 28°42 | 22°40 | 12°16 | 23°R52 | 25°14 | 6°25 | 25°13 | W22 |
| T 23 | 8 10 44 | 3°32'12 | 16°36 | 18° 0 | 23°21 | 7°52 | 26°46 | 9°36 | 28°46 | 22°42 | 12°15 | 23°51 | 25°11 | 6°31 | 25°15 | T 23 |
| F 24 | 8 14 40 | 4°33'10 | 28°57 | 17°43 | 24°33 | 8°22 | 27° 0 | 9°31 | 28°49 | 22°44 | 12°15 | 23°48 | 25° 8 | 6°38 | 25°16 | F 24 |
| S 25 | 8 18 37 | 5°34'08 | 11 × 37 | 17°15 | 25°45 | 8°52 | 27°14 | 9°26 | 28°52 | 22°46 | 12°14 | 23°43 | 25° 5 | 6°45 | 25°18 | S 25 |
| S 26 | 8 22 33 | 6°35'04 | 2 <u>4</u> °41 | 16°36 | 26°57 | 9°22 | 27°28 | 9°21 | 28°55 | 22°47 | 12°13 | 23°36 | 25° 2 | 6°51 | 25°20 | S 26 |
| M27 | 8 26 30 | 7°36'00 | 8 궁 10 | 15°47 | 28° 9 | 9°51 | 27°42 | 9°17 | 28°58 | 22°49 | 12°13 | 23°28 | 24°58 | 6°58 | 25°21 | M27 |
| T 28 | 8 30 26 | 8°36'55 | 22° 2 | 14°50 | 2 <u>9</u> °21 | 10°21 | 27°56 | 9°12 | 29° 1 | 22°51 | 12°12 | 23°20 | 24°55 | 7° 5 | 25°22 | T 28 |
| W29 | 8 34 23 | 9°37'48 | 6≈15 | 13°46 | 0 云 33 | 10°50 | 28°11 | 9° 7 | 29° 4 | 22°53 | 12°12 | 23°13 | 24°52 | 7°11 | 25°23 | W29 |
| T 30 | 8 38 20 | 10°38'41 | 20°43 | 12°37 | <u>1°46</u> | 11°19 | 2 <u>8</u> °25 | 9° 2 | 29° 7 | 22°54 | 12°11 | 23° 7 | 24°49 | 7°18 | 25°24 | T 30 |
| F 31 | 8 42 16 | 11≈39'32 | 5 ∺ 20 | 11≈26 | 2 ප් 58 | 11 M 48 | 28 궁 39 | 8 Ω 57 | 29 × 10 | 22 × 56 | 12 Ⅱ 11 | 23) 4 | 24) 46 | 7 ≏ 24 | 25 ≏ 25 | F 31 |

Delta T = 41.22 sec Greg. Calendar

FEBRUARY 1653 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | Ф | ♂ | 4 | ħ | ᡟ | ¥ | Р | r | Ω | Ç | Š. | Day |
|------|----------|--------------------|-----------------|--------|---------------|-----------------|----------------|---------------|----------------|-----------------|-----------------|----------------|-----------------|----------------|----------------|------|
| S 1 | 8 46 13 | 12≈40'22 | 19 米 59 | 10°R13 | 4 궁 10 | 12 M .17 | 28 궁 53 | 8°R52 | 29 × 13 | 22 × 758 | 12°R10 | 23°D 3 | 24) (43 | 7 ≏ 31 | 25 ≏ 26 | S 1 |
| S 2 | 8 50 9 | 13°41'10 | 4 Υ33 | 9≈ 2 | 5°23 | 12°46 | 29° 7 | 8 Ω 47 | 29°15 | 22°59 | 12 II 10 | 23 米 3 | 24°39 | 7°38 | 25°27 | S 2 |
| M 3 | 8 54 6 | 14°41'57 | 18°59 | 7°53 | 6°35 | 13°14 | 29°20 | 8°42 | 29°18 | 23° 1 | 12° 9 | 23° 4 | 24°36 | 7°44 | 25°27 | M 3 |
| T 4 | 8 58 2 | 15°42'42 | 3 8 14 | 6°49 | 7°47 | 13°42 | 29°34 | 8°37 | 29°21 | 23° 2 | 12° 9 | 23° 6 | 24°33 | 7°51 | 25°28 | T 4 |
| W 5 | 9 1 59 | 16°43'26 | 17°15 | 5°51 | 9° 0 | 14°10 | 29°48 | 8°32 | 29°24 | 23° 4 | 12° 8 | 23°R 6 | 24°30 | 7°58 | 25°28 | W 5 |
| T 6 | 9 5 5 5 | 17°44'08 | 1 I 1 | 5° 0 | 10°13 | 14°38 | 0≈ 2 | 8°28 | 29°27 | 23° 5 | 12° 8 | 23° 5 | 24°27 | 8° 4 | 25°28 | T 6 |
| F 7 | 9 9 52 | 18°44'48 | 14°34 | 4°16 | 11°25 | 15° 6 | 0°16 | 8°23 | 29°29 | 23° 7 | 12° 7 | 23° 3 | 24°24 | 8°11 | 25°R28 | F 7 |
| S 8 | 9 13 49 | 19°45'27 | 27°53 | 3°39 | 12°38 | 15°33 | 0°30 | 8°18 | 29°32 | 23° 8 | 12° 7 | 22°59 | 24°20 | 8°18 | 25°28 | S 8 |
| S 9 | 9 17 45 | 20°46'04 | 10959 | 3°11 | 13°50 | 16° 0 | 0°44 | 8°13 | 29°34 | 23°10 | 12° 7 | 22°54 | 24°17 | 8°24 | 25°28 | S 9 |
| M10 | 9 21 42 | 21°46'39 | 23°51 | 2°50 | 15° 3 | 16°27 | 0°57 | 8° 9 | 29°37 | 23°11 | 12° 6 | 22°48 | 24°14 | 8°31 | 25°28 | M10 |
| T 11 | 9 25 38 | 22°47'13 | 6 Ω 31 | 2°38 | 16°16 | 16°54 | 1°11 | 8° 4 | 29°40 | 23°12 | 12° 6 | 22°43 | 24°11 | 8°38 | 25°27 | T 11 |
| W12 | 9 29 35 | 23°47'45 | 18°59 | 2°D32 | 17°29 | 17°21 | 1°25 | 7°59 | 29°42 | 23°14 | 12° 6 | 22°39 | 24° 8 | 8°44 | 25°27 | W12 |
| T 13 | 9 33 31 | 24°48'15 | 1 m p 15 | 2°34 | 18°41 | 17°47 | 1°38 | 7°55 | 29°44 | 23°15 | 12° 6 | 22°35 | 24° 4 | 8°51 | 25°26 | T 13 |
| F 14 | 9 37 28 | 25°48'44 | 13°20 | 2°43 | 19°54 | 18°13 | 1°52 | 7°50 | 29°47 | 23°16 | 12° 5 | 22°34 | 24° 1 | 8°58 | 25°25 | F 14 |
| S 15 | 9 41 24 | 26°49'11 | 25°17 | 2°57 | 21° 7 | 18°39 | 2° 5 | 7°46 | 29°49 | 23°18 | 12° 5 | 22°D33 | 23°58 | 9° 4 | 25°25 | S 15 |
| S 16 | 9 45 21 | 27°49'37 | 7 º 8 | 3°18 | 22°20 | 19° 5 | 2°19 | 7°41 | 29°52 | 23°19 | 12° 5 | 22°34 | 23°55 | 9°11 | 25°24 | S 16 |
| M17 | 9 49 18 | 28°50'01 | 18°56 | 3°44 | 23°33 | 19°30 | 2°32 | 7°37 | 29°54 | 23°20 | 12° 5 | 22°36 | 23°52 | 9°18 | 25°23 | M17 |
| T 18 | 9 53 14 | 29°50'23 | 0 M .44 | 4°15 | 24°46 | 19°56 | 2°46 | 7°32 | 29°56 | 23°21 | 12° 5 | 22°37 | 23°49 | 9°24 | 25°21 | T 18 |
| W19 | 9 57 11 | 0) € 50'45 | 12°38 | 4°51 | 25°59 | 20°20 | 2°59 | 7°28 | 29°58 | 23°22 | 12° 5 | 22°39 | 23°45 | 9°31 | 25°20 | W19 |
| T 20 | 10 1 7 | 1°51'05 | 24°41 | 5°31 | 27°12 | 20°45 | 3°12 | 7°24 | 0ට 1 | 23°24 | 12° 4 | 22°40 | 23°42 | 9°37 | 25°19 | T 20 |
| F 21 | 10 5 4 | 2°51'23 | 6 ₹ 59 | 6°15 | 28°25 | 21°10 | 3°26 | 7°20 | 0° 3 | 23°25 | 12° 4 | 22°R40 | 23°39 | 9°44 | 25°17 | F 21 |
| S 22 | 10 9 0 | 3°51'40 | 19°36 | 7° 2 | 29°38 | 21°34 | 3°39 | 7°15 | 0° 5 | 23°26 | 12° 4 | 22°39 | 23°36 | 9°51 | 25°15 | S 22 |
| S 23 | 10 12 57 | 4°51'56 | 2 ප 36 | 7°53 | 0≈51 | 21°58 | 3°52 | 7°11 | 0° 7 | 23°27 | 12° 4 | 22°38 | 23°33 | 9°57 | 25°14 | S 23 |
| M24 | 10 16 53 | 5°52'10 | 16° 2 | 8°48 | 2° 4 | 22°21 | 4° 5 | 7° 7 | 0° 9 | 23°28 | 12°D 4 | 22°36 | 23°29 | 10° 4 | 25°12 | M24 |
| T 25 | 10 20 50 | 6°52'22 | 29°55 | 9°45 | 3°17 | 22°44 | 4°18 | 7° 3 | 0°11 | 23°29 | 12° 4 | 22°33 | 23°26 | 10°11 | 25°10 | T 25 |
| W26 | 10 24 47 | 7°52'33 | 14≈13 | 10°45 | 4°30 | 23° 7 | 4°31 | 7° 0 | 0°13 | 23°30 | 12° 4 | 22°31 | 23°23 | 10°17 | 25° 8 | W26 |
| T 27 | 10 28 43 | 8°52'42 | 28°53 | 11°48 | 5°43 | 23°30 | 4°44 | 6°56 | <u>0</u> °14 | 23°31 | 12° 4 | 22°30 | 23°20 | 10°24 | 25° 6 | T 27 |
| F 28 | 10 32 40 | 9 米 52'49 | 13) 48 | 12≈53 | 6≈57 | 23 M 52 | 4≈57 | 6 Ω 52 | 0 궁 16 | 23 × 31 | 12 I I 4 | 22 米 29 | 23 米 17 | 10 ≏ 31 | 25 ♀ 3 | F 28 |

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| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |) f (| 并 | Р | ß | v | Ç | ę, | Day |
|------|----------|-------------------|----------------|---------------|----------------|-----------------|-------|---------------|---------------|-----------------|----------------|----------------|-----------------|----------------|----------------|------|
| S 1 | 10 36 36 | 10 ¥ 52'54 | 28 米 49 | 14≈ 0 | 8≈10 | 24 M .14 | 5≈10 | 6°R48 | 0 ට 18 | 23 × 32 | 12 II 5 | 22°D29 | 23): 14 | 10 ≏ 37 | 25°R 1 | S 1 |
| S 2 | 10 40 33 | 11°52'57 | 13 Y 49 | 15°10 | 9°23 | 24°36 | 5°23 | 6 Ω 45 | 0°20 | 23°33 | 12° 5 | 22) 30 | 23°10 | 10°44 | 24 ≏ 58 | S 2 |
| M 3 | 10 44 29 | 12°52'58 | 28°39 | 16°21 | 10°36 | 24°57 | 5°36 | 6°41 | 0°21 | 23°34 | 12° 5 | 22°30 | 23° 7 | 10°51 | 24°56 | M 3 |
| T 4 | 10 48 26 | 13°52'57 | 13 8 14 | 17°35 | 11°49 | 25°18 | 5°48 | 6°38 | 0°23 | 23°35 | 12° 5 | 22°31 | 23° 4 | 10°57 | 24°53 | T 4 |
| W 5 | 10 52 22 | 14°52'54 | 27°28 | 18°50 | 13° 3 | 25°39 | 6° 1 | 6°35 | 0°25 | 23°35 | 12° 5 | 22°32 | 23° 1 | 11° 4 | 24°50 | W 5 |
| T 6 | 10 56 19 | 15°52'48 | 11 Ⅱ 20 | 20° 7 | 14°16 | 25°59 | 6°13 | 6°31 | 0°26 | 23°36 | 12° 5 | 22°R32 | 22°58 | 11°11 | 24°47 | T 6 |
| F 7 | 11 0 16 | 16°52'41 | 24°51 | 21°25 | 15°29 | 26°19 | 6°26 | 6°28 | 0°28 | 23°37 | 12° 6 | 22°32 | 22°55 | 11°17 | 24°44 | F 7 |
| S 8 | 11 4 12 | 17°52'31 | 8 9 0 | 22°46 | 16°42 | 26°39 | 6°38 | 6°25 | 0°29 | 23°37 | 12° 6 | 22°32 | 22°51 | 11°24 | 24°41 | S 8 |
| S 9 | 11 8 9 | 18°52'18 | 20°52 | 24° 8 | 17°56 | 26°58 | 6°51 | 6°22 | 0°30 | 23°38 | 12° 6 | 22°31 | 22°48 | 11°31 | 24°38 | S 9 |
| M10 | 11 12 5 | 19°52'04 | $3\Omega 28$ | 25°31 | 19° 9 | 27°16 | 7° 3 | 6°19 | 0°32 | 23°38 | 12° 6 | 22°31 | 22°45 | 11°37 | 24°35 | M10 |
| T 11 | 11 16 2 | 20°51'47 | 15°50 | 26°56 | 20°22 | 27°35 | 7°15 | 6°16 | 0°33 | 23°39 | 12° 7 | 22°31 | 22°42 | 11°44 | 24°32 | T 11 |
| W12 | 11 19 58 | 21°51'28 | 28° 1 | 28°22 | 21°36 | 27°53 | 7°27 | 6°14 | 0°34 | 23°39 | 12° 7 | 22°31 | 22°39 | 11°51 | 24°28 | W12 |
| T 13 | 11 23 55 | 22°51'07 | 10Mp 3 | 29°50 | 22°49 | 28°10 | 7°39 | 6°11 | 0°35 | 23°40 | 12° 7 | 22°D31 | 22°35 | 11°57 | 24°25 | T 13 |
| F 14 | 11 27 51 | 23°50'44 | 21°59 | 1 米 19 | 24° 2 | 28°27 | 7°51 | 6° 9 | 0°37 | 23°40 | 12° 8 | 22°R31 | 22°32 | 12° 4 | 24°21 | F 14 |
| S 15 | 11 31 48 | 24°50'19 | 3 ≏ 51 | 2°49 | 25°16 | 28°44 | 8° 3 | 6° 6 | 0°38 | 23°40 | 12° 8 | 22°31 | 22°29 | 12°10 | 24°18 | S 15 |
| S 16 | 11 35 44 | 25°49'51 | 15°39 | 4°21 | 26°29 | 29° 0 | 8°15 | 6° 4 | 0°39 | 23°41 | 12° 9 | 22°30 | 22°26 | 12°17 | 24°14 | S 16 |
| M17 | 11 39 41 | 26°49'22 | 27°28 | 5°54 | 27°42 | 29°16 | 8°26 | 6° 2 | 0°40 | 23°41 | 12° 9 | 22°30 | 22°23 | 12°24 | 24°10 | M17 |
| T 18 | 11 43 38 | 27°48'51 | 9 M .19 | 7°29 | 28°56 | 29°31 | 8°38 | 6° 0 | 0°41 | 23°41 | 12°10 | 22°29 | 22°20 | 12°30 | 24° 6 | T 18 |
| W19 | 11 47 34 | 28°48'18 | 21°15 | 9° 5 | 0 ∺ 9 | 29°46 | 8°50 | 5°58 | 0°41 | 23°42 | 12°10 | 22°28 | 22°16 | 12°37 | 24° 2 | W19 |
| T 20 | 11 51 31 | 29°47'43 | 3 ₹ 20 | 10°42 | 1°23 | 0 ≯ 0 | 9° 1 | 5°56 | 0°42 | 23°42 | 12°11 | 22°28 | 22°13 | 12°44 | 23°58 | T 20 |
| F 21 | 11 55 27 | 0 ℃ 47'07 | 15°38 | 12°20 | 2°36 | 0°14 | 9°12 | 5°54 | 0°43 | 23°42 | 12°11 | 22°27 | 22°10 | 12°50 | 23°54 | F 21 |
| S 22 | 11 59 24 | 1°46'29 | 28°12 | 14° 0 | 3°49 | 0°28 | 9°24 | 5°52 | 0°44 | 23°42 | 12°12 | 22°D27 | 22° 7 | 12°57 | 23°50 | S 22 |
| S 23 | 12 3 20 | 2°45'49 | 11る 6 | 15°41 | 5° 3 | 0°40 | 9°35 | 5°51 | 0°44 | 23°42 | 12°12 | 22°27 | 22° 4 | 13° 4 | 23°46 | S 23 |
| M24 | 12 7 17 | 3°45'07 | 24°24 | 17°24 | 6°16 | 0°53 | 9°46 | 5°49 | 0°45 | 23°42 | 12°13 | 22°27 | 22° 1 | 13°10 | 23°42 | M24 |
| T 25 | 12 11 13 | 4°44'23 | 8≈ 8 | 19°8 | 7°30 | 1° 4 | 9°57 | 5°48 | 0°46 | 23°42 | 12°13 | 22°28 | 21°57 | 13°17 | 23°38 | T 25 |
| W26 | 12 15 10 | 5°43'37 | 22°19 | 20°53 | 8°43 | 1°15 | 10°8 | 5°46 | 0°46 | 23°R42 | 12°14 | 22°29 | 21°54 | 13°24 | 23°33 | W26 |
| T 27 | 12 19 7 | 6°42'50 | 6 ∺ 54 | 22°40 | 9°57 | 1°26 | 10°18 | 5°45 | 0°47 | 23°42 | 12°15 | 22°30 | 21°51 | 13°30 | 23°29 | T 27 |
| F 28 | 12 23 3 | 7°42'01 | 21°50 | 24°28 | 11°10 | 1°36 | 10°29 | 5°44 | 0°47 | 23°42 | 12°15 | 22°R30 | 21°48 | 13°37 | 23°25 | F 28 |
| S 29 | 12 27 0 | 8°41'09 | 6 Ƴ 59 | 26°18 | 12°23 | 1°45 | 10°40 | 5°43 | 0°47 | 23°42 | 12°16 | 22°30 | 21°45 | 13°44 | 23°20 | S 29 |
| S 30 | 12 30 56 | 9°40'16 | 22°13 | 28° 8 | 13°37 | 1°54 | 10°50 | 5°42 | 0°48 | 23°42 | 12°17 | 22°29 | 21°41 | 13°50 | 23°16 | S 30 |
| M31 | 12 34 53 | 10 ° 39'20 | 7 8 20 | 0 Υ 1 | 14 米 50 | 2 ₹ 2 | 11≈ 1 | 5 Ω 41 | 0 궁 48 | 23 × 742 | 12 Ⅱ 18 | 22) 27 | 21) 38 | 13 ≏ 57 | 23 ≏ 11 | M31 |

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|------|----------|-------------------|----------------|---------------|----------------|---------------|-------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------|
| T 1 | 12 38 49 | 11 Y 38'23 | 22813 | 1 Y 55 | 16) 4 | 2 7 10 | 11≈11 | 5°R41 | 0 궁 48 | 23°R42 | 12 Ⅱ 18 | 22°R24 | 21) 35 | 14 ♀ 4 | 23°R 7 | T 1 |
| W 2 | 12 42 46 | 12°37'23 | 6∏44 | 3°50 | 17°17 | 2°16 | 11°21 | 5 Ω 40 | 0°48 | 23 х 41 | 12°19 | 22) 22 | 21°32 | 14°10 | 23 º 2 | W 2 |
| T 3 | 12 46 42 | 13°36'21 | 20°49 | 5°46 | 18°31 | 2°23 | 11°31 | 5°40 | 0°48 | 23°41 | 12°20 | 22°20 | 21°29 | 14°17 | 22°57 | T 3 |
| F 4 | 12 50 39 | 14°35'16 | 49526 | 7°44 | 19°44 | 2°28 | 11°41 | 5°40 | 0°R48 | 23°41 | 12°21 | 22°18 | 21°26 | 14°24 | 22°53 | F 4 |
| S 5 | 12 54 36 | 15°34'10 | 17°37 | 9°44 | 20°58 | 2°33 | 11°51 | 5°39 | 0°48 | 23°41 | 12°21 | 22°D18 | 21°22 | 14°30 | 22°48 | S 5 |
| S 6 | 12 58 32 | 16°33'00 | 0 Ω 25 | 11°44 | 22°11 | 2°37 | 12° 1 | 5°D39 | 0°48 | 23°40 | 12°22 | 22°19 | 21°19 | 14°37 | 22°44 | S 6 |
| M 7 | 13 2 29 | 17°31'49 | 12°53 | 13°46 | 23°25 | 2°41 | 12°10 | 5°39 | 0°48 | 23°40 | 12°23 | 22°20 | 21°16 | 14°44 | 22°39 | M 7 |
| T 8 | 13 6 25 | 18°30'35 | 25° 6 | 15°49 | 24°38 | 2°44 | 12°20 | 5°39 | 0°48 | 23°39 | 12°24 | 22°22 | 21°13 | 14°50 | 22°34 | T 8 |
| W 9 | 13 10 22 | 19°29'19 | 7 m , 7 | 17°54 | 25°51 | 2°46 | 12°29 | 5°40 | 0°48 | 23°39 | 12°25 | 22°23 | 21°10 | 14°57 | 22°29 | W 9 |
| T 10 | 13 14 18 | 20°28'01 | 19° 1 | 19°59 | 27° 5 | 2°47 | 12°38 | 5°40 | 0°48 | 23°38 | 12°26 | 22°R24 | 21° 7 | 15° 3 | 22°25 | T 10 |
| F 11 | 13 18 15 | 21°26'41 | 0 ჲ 50 | 22° 5 | 28°18 | 2°R48 | 12°47 | 5°40 | 0°47 | 23°38 | 12°27 | 22°24 | 21° 3 | 15°10 | 22°20 | F 11 |
| S 12 | 13 22 11 | 22°25'18 | 12°38 | 24°11 | 29°32 | 2°48 | 12°56 | 5°41 | 0°47 | 23°37 | 12°28 | 22°22 | 21° 0 | 15°17 | 22°15 | S 12 |
| S 13 | 13 26 8 | 23°23'54 | 24°27 | 26°19 | 0 Υ 45 | 2°47 | 13° 5 | 5°42 | 0°46 | 23°37 | 12°29 | 22°19 | 20°57 | 15°23 | 22°11 | S 13 |
| M14 | 13 30 5 | 24°22'27 | 6 M 19 | 28°26 | 1°59 | 2°46 | 13°14 | 5°42 | 0°46 | 23°36 | 12°30 | 22°14 | 20°54 | 15°30 | 22° 6 | M14 |
| T 15 | 13 34 1 | 25°20'59 | 18°16 | 0 8 33 | 3°12 | 2°44 | 13°23 | 5°43 | 0°46 | 23°36 | 12°31 | 22° 9 | 20°51 | 15°37 | 22° 1 | T 15 |
| W16 | 13 37 58 | 26°19'29 | 0 才 19 | 2°41 | 4°26 | 2°41 | 13°31 | 5°44 | 0°45 | 23°35 | 12°32 | 22° 3 | 20°47 | 15°43 | 21°56 | W16 |
| T 17 | 13 41 54 | 27°17'58 | 12°32 | 4°47 | 5°39 | 2°37 | 13°39 | 5°45 | 0°44 | 23°34 | 12°33 | 21°57 | 20°44 | 15°50 | 21°52 | T 17 |
| F 18 | 13 45 51 | 28°16'24 | 24°55 | 6°53 | 6°52 | 2°32 | 13°48 | 5°47 | 0°44 | 23°34 | 12°34 | 21°52 | 20°41 | 15°57 | 21°47 | F 18 |
| S 19 | 13 49 47 | 29°14'49 | 7 궁 32 | 8°57 | 8° 6 | 2°27 | 13°56 | 5°48 | 0°43 | 23°33 | 12°35 | 21°48 | 20°38 | 16° 3 | 21°42 | S 19 |
| S 20 | 13 53 44 | 0813'13 | 20°25 | 11° 1 | 9°19 | 2°21 | 14° 4 | 5°49 | 0°42 | 23°32 | 12°36 | 21°46 | 20°35 | 16°10 | 21°38 | S 20 |
| M21 | 13 57 40 | 1°11'34 | 3≈38 | 13° 2 | 10°33 | 2°14 | 14°11 | 5°51 | 0°41 | 23°31 | 12°37 | 21°D45 | 20°32 | 16°17 | 21°33 | M21 |
| T 22 | 14 1 37 | 2° 9'55 | 17°12 | 15° 1 | 11°46 | 2° 7 | 14°19 | 5°53 | 0°41 | 23°30 | 12°38 | 21°46 | 20°28 | 16°23 | 21°29 | T 22 |
| W23 | 14 5 34 | 3° 8'13 | 1) 10 | 16°58 | 13° 0 | 1°58 | 14°27 | 5°54 | 0°40 | 23°29 | 12°39 | 21°47 | 20°25 | 16°30 | 21°24 | W23 |
| T 24 | 14 9 30 | 4° 6'30 | 15°32 | 18°52 | 14°13 | 1°49 | 14°34 | 5°56 | 0°39 | 23°29 | 12°40 | 21°R48 | 20°22 | 16°37 | 21°19 | T 24 |
| F 25 | 14 13 27 | 5° 4'46 | 0 Υ 16 | 20°43 | 15°27 | 1°39 | 14°41 | 5°58 | 0°38 | 23°28 | 12°41 | 21°48 | 20°19 | 16°43 | 21°15 | F 25 |
| S 26 | 14 17 23 | 6° 2'59 | 15°16 | 22°31 | 16°40 | 1°29 | 14°48 | 6° 0 | 0°37 | 23°27 | 12°42 | 21°46 | 20°16 | 16°50 | 21°10 | S 26 |
| S 27 | 14 21 20 | 7° 1'12 | 0 8 25 | 24°16 | 17°54 | 1°18 | 14°55 | 6° 2 | 0°36 | 23°26 | 12°44 | 21°42 | 20°12 | 16°57 | 21° 6 | S 27 |
| M28 | 14 25 16 | 7°59'22 | 15°34 | 25°57 | 19° 7 | 1° 5 | 15° 2 | 6° 4 | 0°35 | 23°25 | 12°45 | 21°37 | 20° 9 | 17° 3 | 21° 2 | M28 |
| T 29 | 14 29 13 | 8°57'31 | 0Д33 | 27°35 | 20°21 | 0°53 | 15° 9 | 6° 7 | 0°33 | 23°24 | 12°46 | 21°29 | 20° 6 | 17°10 | 20°57 | T 29 |
| W30 | 14 33 9 | 9 8 55'38 | 15 Ⅱ 13 | 29 8 9 | 21 Y 34 | 0 ₮ 39 | 15≈15 | 6 N 9 | 0 궁 32 | 23 × 23 | 12 Ⅱ 47 | 21 米 22 | 20 米 3 | 17 ≏ 17 | 20 ≏ 53 | W30 |

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| T 1 14 37 6 10♂53'44 29Ⅲ27 0Ⅲ39 22♈48 0°R25 15≈2 F 2 14 41 3 11°51'47 13©13 2° 5 24° 1 0√10 15°2 S 3 14 44 59 12°49'49 26°30 3°27 25°14 29ጤ55 15°3 S 4 14 48 56 13°47'48 9€20 4°46 26°28 29°39 15°4 M 5 14 52 52 14°45'46 21°48 6° 0 27°41 29°22 15°4 T 6 14 56 49 15°43'41 3№58 7°10 28°55 29° 5 15°5 W 7 15 0 45 16°41'35 15°56 8°16 0 8 28°47 15°5 T 8 15 4 42 17°39'27 27°46 9°17 122 28°29 16° F 9 15 8 38 18°37'18 9♀34 10°14 2°35 28°11 16° S 10 15 12 35 19°35'06 21°22 11° 7 3°49 27°52 16°1 | 28 6°14 64 6°17 40 6°20 45 6°23 51 6°26 66 6°29 1 6°32 6 6°36 11 6°39 | 0°R31 0°30 0°28 0°27 0°25 0°24 0°22 0°21 0°19 0°18 | 23°R22 23×721 23°19 23°18 23°17 23°16 23°15 23°14 23°12 23°11 | 12 I 48 12°50 12°51 12°52 12°53 12°54 12°56 12°57 12°58 | 21°R15 21¥10 21° 7 21°D 5 21° 6 21° 6 21° 7 21° 7 21° 7 | 20 米 0 19°57 19°53 19°50 19°47 19°44 19°41 19°38 | 17 2 3 17°30 17°37 17°43 17°50 17°57 18° 3 | 20°R49 20 <u>2</u> 45 20°41 20°36 20°32 20°28 20°25 | T 1 F 2 S 3 S 4 M 5 T 6 |
|---|---|---|--|--|---|--|---|---|--|
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 6°17 6°20 6°20 6°23 61 6°26 66 6°29 1 6°32 6 6°36 1 6°39 | 0°28 0°27 0°25 0°24 0°22 0°21 0°19 | 23°19 23°18 23°17 23°16 23°15 23°14 23°12 | 12°51 12°52 12°53 12°54 12°56 12°57 12°58 | 21° 7 21°D 5 21° 6 21° 6 21°R 7 21° 7 | 19°53 19°50 19°47 19°44 19°41 | 17°37 17°43 17°50 17°57 | 20°41 20°36 20°32 20°28 | S 3 S 4 M 5 |
| S 4 14 48 56 13°47'48 9\Omega{2}20 4°46 26°28 29°39 15°4 M 5 14 52 52 14°45'46 21°48 6° 0 27°41 29°22 15°4 T 6 14 56 49 15°43'41 3\omega{5}8 7°10 28°55 29° 5 15°5 W 7 15 0 45 16°41'35 15°56 8°16 0\omega{8} 28°47 15°5 T 8 15 4 42 17°39'27 27°46 9°17 1°22 28°29 16° F 9 15 8 38 18°37'18 9\Omega{9}34 10°14 2°35 28°11 16° | 60 6°20 65 6°23 61 6°26 66 6°29 1 6°32 6 6°36 11 6°39 | 0°27 0°25 0°24 0°22 0°21 0°19 | 23°18 23°17 23°16 23°15 23°14 23°12 | 12°52 12°53 12°54 12°56 12°57 12°58 | 21°D 5 21° 6 21° 6 21°R 7 21° 7 | 19°50 19°47 19°44 19°41 | 17°43 17°50 17°57 | 20°36 20°32 20°28 | S 4 M 5 |
| M 5 | 6°23 6°26 6°26 6°6 6°32 6°36 6°36 6°39 | 0°25 0°24 0°22 0°21 0°19 | 23°17 23°16 23°15 23°14 23°12 | 12°53 12°54 12°56 12°57 12°58 | 21° 6 21° 6 21°R 7 21° 7 | 19°47 19°44 19°41 | 17°50 17°57 | 20°32 20°28 | M 5 |
| T 6 14 56 49 15°43'41 3 mp58 7°10 28°55 29° 5 15°55 W 7 15 0 45 16°41'35 15°56 8°16 0 8 28°47 15°5 T 8 15 4 42 17°39'27 27°46 9°17 1°22 28°29 16° F 9 15 8 38 18°37'18 9 234 10°14 2°35 28°11 16° | 61 6°26 66 6°29 1 6°32 6 6°36 11 6°39 | 0°24 0°22 0°21 0°19 | 23°16 23°15 23°14 23°12 | 12°54 12°56 12°57 12°58 | 21° 6 21°R 7 21° 7 | 19°44 19°41 | 17°57 | 20°28 | - |
| W 7 15 0 45 16°41'35 15°56 8°16 08 8 28°47 15°5 T 8 15 4 42 17°39'27 27°46 9°17 1°22 28°29 16° F 9 15 8 38 18°37'18 9 Ω 34 10°14 2°35 28°11 16° | 66 6°29 1 6°32 6 6°36 11 6°39 | 0°22 0°21 0°19 | 23°15 23°14 23°12 | 12°56 12°57 12°58 | 21°R 7 21° 7 | 19°41 | | | T 6 |
| T 8 15 4 42 17°39'27 27°46 9°17 1°22 28°29 16° F 9 15 8 38 18°37'18 9 Ω 34 10°14 2°35 28°11 16° | 1 6°32 6 6°36 1 6°39 | 0°21 0°19 | 23°14 23°12 | 12°57 12°58 | 21° 7 | | 18° 3 | 20025 | |
| F 9 15 8 38 18°37'18 9\(\Omega\)34 10°14 2°35 28°11 16° | 6 6°36 6°39 | 0°19 | 23°12 | 12°58 | | 19°38 | | 20-25 | W 7 |
| | 6°39 | | - | | 210 5 | | 18°10 | 20°21 | T 8 |
| S 10 15 12 25 10°25'06 21°22 11° 7 2°40 27°52 16°1 | | 0°18 | 23°11 | | 21 3 | 19°34 | 18°17 | 20°17 | F 9 |
| 3 10 13 12 33 19 33 00 21 22 11 / 3 49 2/ 32 10 1 | 6 6013 | | 23 11 | 13° 0 | 21° 1 | 19°31 | 18°23 | 20°13 | S 10 |
| S 11 15 16 32 20°32'53 3ML14 11°55 5° 2 27°32 16°1 | 0 43 | 0°16 | 23°10 | 13° 1 | 20°55 | 19°28 | 18°30 | 20°10 | S 11 |
| M12 15 20 28 21°30'39 15°12 12°39 6°15 27°13 16°2 | 20 6°46 | 0°14 | 23° 8 | 13° 2 | 20°46 | 19°25 | 18°37 | 20° 6 | M12 |
| T 13 15 24 25 22°28'23 27°18 13°17 7°29 26°52 16°2 | 25 6°50 | 0°13 | 23° 7 | 13° 3 | 20°35 | 19°22 | 18°43 | 20° 3 | T 13 |
| W14 15 28 21 23°26'06 9x734 13°52 8°42 26°32 16°2 | 29 6°54 | 0°11 | 23° 6 | 13° 5 | 20°24 | 19°18 | 18°50 | 19°59 | W14 |
| T 15 15 32 18 24°23'48 21°59 14°21 9°56 26°12 16°3 | | 0° 9 | 23° 4 | 13° 6 | 20°13 | 19°15 | 18°57 | 19°56 | T 15 |
| F 16 15 36 14 25°21'28 4 ろ 35 14°46 11°9 25°51 16°3 | 37 7° 2 | 0° 7 | 23° 3 | 13° 7 | 20° 3 | 19°12 | 19° 3 | 19°53 | F 16 |
| S 17 15 40 11 26°19'08 17°23 15° 6 12°23 25°30 16°4 | 11 7° 6 | 0° 5 | 23° 2 | 13° 9 | 19°55 | 19° 9 | 19°10 | 19°50 | S 17 |
| S 18 15 44 7 27°16'46 0∞24 15°21 13°36 25° 9 16°4 | | 0° 4 | 23° 0 | 13°10 | 19°49 | 19° 6 | 19°17 | 19°47 | S 18 |
| M19 15 48 4 28°14'23 13°40 15°32 14°50 24°48 16°4 | | 0° 2 | 22°59 | 13°11 | 19°47 | 19° 3 | 19°23 | 19°44 | M19 |
| T 20 15 52 1 29°11'59 27°11 15°38 16°3 24°27 16°5 | 50 7°18 | 29 × 759 | 22°57 | 13°13 | 19°D46 | 18°59 | 19°30 | 19°41 | T 20 |
| W21 15 55 57 OII 9'34 11 | | 29°58 | 22°56 | 13°14 | 19°46 | 18°56 | 19°37 | 19°38 | W21 |
| T 22 15 59 54 1° 7'09 25° 9 15°35 18°30 23°45 16°5 | 56 7°27 | 29°56 | 22°55 | 13°16 | 19°R46 | 18°53 | 19°43 | 19°35 | T 22 |
| F 23 16 3 50 2° 4'42 9\bar{\gamma}35 15°27 19°43 23°24 16°5 | | 29°54 | 22°53 | 13°17 | 19°45 | 18°50 | 19°50 | 19°33 | F 23 |
| S 24 16 7 47 3° 2'15 24°17 15°15 20°57 23° 3 17° | 1 7°36 | 29°52 | 22°52 | 13°18 | 19°41 | 18°47 | 19°57 | 19°30 | S 24 |
| S 25 16 11 43 3°59'46 98 9 14°59 22°10 22°43 17° | | 29°50 | 22°50 | 13°20 | 19°35 | 18°44 | 20° 3 | 19°28 | S 25 |
| 1 1 | 5 7°46 | 29°47 | 22°49 | 13°21 | 19°26 | 18°40 | 20°10 | 19°25 | M26 |
| 12, 101, 30 | 7 7°50 | 29°45 | 22°47 | 13°22 | 19°16 | 18°37 | 20°17 | 19°23 | T 27 |
| W28 16 23 33 6°52'16 23°27 13°49 25°51 21°44 17° | , | 29°43 | 22°46 | 13°24 | 19° 5 | 18°34 | 20°23 | 19°21 | W28 |
| T 29 16 27 30 7°49'44 79540 13°21 27°4 21°24 17°1 | | 29°41 | 22°44 | 13°25 | 18°54 | 18°31 | 20°30 | 19°19 | T 29 |
| F 30 16 31 26 8°47'11 21°27 12°50 28°18 21° 6 17°1 | | 29°39 | 22°42 | 13°27 | 18°46 | 18°28 | 20°37 | 19°17 | F 30 |
| S 31 16 35 23 9II44'36 4N46 12II18 29831 20IIA8 17∞1 | 2 8 Ω 11 | 29 х 36 | 22 × 741 | 13 Ⅱ 28 | 18) (40 | 18) 24 | 20 ≏ 43 | 19 ≏ 15 | S 31 |

Delta T = 40.99 sec Greg. Calendar

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| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| 并 | В | ₽. | Ω | ţ | Q K | Day |
|------|----------|-------------------|-----------------|-----------------|---------------|----------------|--------|----------------|-----------------|-----------------------------|-----------------|-----------------|----------------|---------------|----------------|------|
| S 1 | 16 39 19 | 10 Ⅱ 42'01 | 17 Ω 39 | 11°R45 | 0 Ⅱ 45 | 20°R30 | 17≈13 | 8 Ω 16 | 29°R34 | 22°R39 | 13 Ⅱ 29 | 18°R36 | 18) 21 | 20₽50 | 19°R13 | S 1 |
| M 2 | 16 43 16 | 11°39'24 | 0 m) 9 | 11 I I11 | 1°58 | 20 M 13 | 17°14 | 8°21 | 29 × 732 | 22 × ⁷ 38 | 13°31 | 18) 34 | 18°18 | 20°57 | 19 ₽ 12 | M 2 |
| T 3 | 16 47 12 | 12°36'46 | 12°21 | 10°38 | 3°12 | 19°56 | 17°14 | 8°27 | 29°30 | 22°36 | 13°32 | 18°34 | 18°15 | 21° 3 | 19°10 | T 3 |
| W 4 | 16 51 9 | 13°34'07 | 24°19 | 10° 5 | 4°25 | 19°41 | 17°15 | 8°32 | 29°27 | 22°35 | 13°34 | 18°34 | 18°12 | 21°10 | 19° 9 | W 4 |
| T 5 | 16 55 5 | 14°31'26 | 6 ₽ 10 | 9°34 | 5°39 | 19°25 | 17°R15 | 8°37 | 29°25 | 22°33 | 13°35 | 18°33 | 18° 9 | 21°17 | 19° 7 | T 5 |
| F 6 | 16 59 2 | 15°28'45 | 17°58 | 9° 4 | 6°52 | 19°11 | 17°15 | 8°43 | 29°23 | 22°31 | 13°36 | 18°30 | 18° 5 | 21°23 | 19° 6 | F 6 |
| S 7 | 17 2 59 | 16°26'03 | 29°49 | 8°37 | 8° 6 | 18°57 | 17°14 | 8°49 | 29°20 | 22°30 | 13°38 | 18°25 | 18° 2 | 21°30 | 19° 5 | S 7 |
| S 8 | 17 6 55 | 17°23'20 | 11 M .45 | 8°13 | 9°19 | 18°44 | 17°14 | 8°54 | 29°18 | 22°28 | 13°39 | 18°18 | 17°59 | 21°37 | 19° 4 | S 8 |
| M 9 | 17 10 52 | 18°20'37 | 23°51 | 7°52 | 10°33 | 18°31 | 17°13 | 9° 0 | 29°16 | 22°27 | 13°41 | 18° 7 | 17°56 | 21°43 | 19° 3 | M 9 |
| T 10 | 17 14 48 | 19°17'52 | 6 ≯ 8 | 7°35 | 11°47 | 18°20 | 17°12 | 9° 6 | 29°13 | 22°25 | 13°42 | 17°55 | 17°53 | 21°50 | 19° 3 | T 10 |
| W11 | 17 18 45 | 20°15'08 | 1 <u>8</u> °38 | 7°21 | 13° 0 | 18° 9 | 17°11 | 9°12 | 29°11 | 22°23 | 13°43 | 17°42 | 17°50 | 21°57 | 19° 2 | W11 |
| T 12 | 17 22 41 | 21°12'22 | 1 る 20 | 7°11 | 14°14 | 17°59 | 17°10 | 9°18 | 29° 8 | 22°22 | 13°45 | 17°29 | 17°46 | 22° 3 | 19° 1 | T 12 |
| F 13 | 17 26 38 | 22° 9'36 | 14°14 | 7° 6 | 15°27 | 17°49 | 17° 9 | 9°24 | 29° 6 | 22°20 | 13°46 | 17°18 | 17°43 | 22°10 | 19° 1 | F 13 |
| S 14 | 17 30 35 | 23° 6'50 | 27°21 | 7°D 5 | 16°41 | 17°41 | 17° 7 | 9°30 | 29° 4 | 22°18 | 13°47 | 17° 9 | 17°40 | 22°17 | 19° 1 | S 14 |
| S 15 | 17 34 31 | 24° 4'03 | 10≈38 | 7° 9 | 17°54 | 17°33 | 17° 5 | 9°36 | 29° 1 | 22°17 | 13°49 | 17° 2 | 17°37 | 22°23 | 19° 0 | S 15 |
| M16 | 17 38 28 | 25° 1'16 | 24° 7 | 7°18 | 19°8 | 17°26 | 17° 3 | 9°42 | 28°59 | 22°15 | 13°50 | 16°58 | 17°34 | 22°30 | 19° 0 | M16 |
| T 17 | 17 42 24 | 25°58'29 | 7) €46 | 7°31 | 20°22 | 17°20 | 17° 1 | 9°48 | 28°56 | 22°14 | 13°52 | 16°57 | 17°30 | 22°37 | 19°D 0 | T 17 |
| W18 | 17 46 21 | 26°55'41 | 21°37 | 7°49 | 21°35 | 17°15 | 16°59 | 9°55 | 28°54 | 22°12 | 13°53 | 16°57 | 17°27 | 22°43 | 19° 0 | W18 |
| T 19 | 17 50 17 | 27°52'54 | 5 Ƴ 39 | 8°12 | 22°49 | 17°10 | 16°56 | 10° 1 | 28°52 | 22°10 | 13°54 | 16°57 | 17°24 | 22°50 | 19° 0 | T 19 |
| F 20 | 17 54 14 | 28°50'07 | 19°53 | 8°39 | 24° 2 | 17° 7 | 16°54 | 10° 7 | 28°49 | 22° 9 | 13°56 | 16°56 | 17°21 | 22°57 | 19° 1 | F 20 |
| S 21 | 17 58 10 | 29°47'19 | 4816 | 9°11 | 25°16 | 17° 4 | 16°51 | 10°14 | 28°47 | 22° 7 | 13°57 | 16°52 | 17°18 | 23° 3 | 19° 1 | S 21 |
| S 22 | 18 2 7 | 09644'32 | 18°45 | 9°47 | 26°30 | 17° 2 | 16°47 | 10°20 | 28°44 | 22° 6 | 13°58 | 16°46 | 17°15 | 23°10 | 19° 2 | S 22 |
| M23 | 18 6 4 | 1°41'45 | 3 Ⅱ 16 | 10°28 | 27°43 | 17° 1 | 16°44 | 10°27 | 28°42 | 22° 4 | 14° 0 | 16°38 | 17°11 | 23°17 | 19° 2 | M23 |
| T 24 | 18 10 0 | 2°38'58 | 17°43 | 11°14 | 28°57 | 17°D 1 | 16°41 | 10°34 | 28°39 | 22° 2 | 14° 1 | 16°27 | 17° 8 | 23°23 | 19° 3 | T 24 |
| W25 | 18 13 57 | 3°36'11 | 1958 | 12° 4 | 09୍ତୀ 1 | 17° 1 | 16°37 | 10°40 | 28°37 | 22° 1 | 14° 2 | 16°16 | 17° 5 | 23°30 | 19° 4 | W25 |
| T 26 | 18 17 53 | 4°33'23 | 15°57 | 12°58 | 1°24 | 17° 3 | 16°33 | 10°47 | 28°35 | 21°59 | 14° 4 | 16° 6 | 17° 2 | 23°37 | 19° 5 | T 26 |
| F 27 | 18 21 50 | 5°30'36 | 29°34 | 13°57 | 2°38 | 17° 5 | 16°29 | 10°54 | 28°32 | 21°58 | 14° 5 | 15°57 | 16°59 | 23°43 | 19° 6 | F 27 |
| S 28 | 18 25 46 | 6°27'48 | 12 Ω 48 | 14°59 | 3°52 | 17° 8 | 16°25 | 11° 0 | 28°30 | 21°56 | 14° 6 | 15°51 | 16°56 | 23°50 | 19° 7 | S 28 |
| S 29 | 18 29 43 | 7°25'00 | 25°39 | 16° 6 | 5° 6 | 17°12 | 16°21 | 11° 7 | 28°27 | 21°55 | 14° 8 | 15°47 | 16°52 | 23°57 | 19° 9 | S 29 |
| M30 | 18 33 39 | 8922'12 | 8 m) 9 | 17 I I18 | 6 9 19 | 17 M 16 | 16≈16 | 11 Ω 14 | 28 × 25 | 21 × 753 | 14 I I 9 | 15) (45 | 16 米 49 | 24 ♀ 3 | 19 ≏ 10 | M30 |

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| T 1 | | | | | | | 4 | ħ | ᡟ | ¥ | Р | R | c | ţ | د 0 | Day |
|------|----------|------------------|----------------|----------------|----------------|----------------|---------------|----------------|-----------------|----------------|-----------------|----------------|----------------|----------------|----------------|------|
| | 18 37 36 | 99519'24 | 20 m 21 | 18 Ⅲ 33 | 7933 | 17 M 22 | 16°R12 | 11 Ω 21 | 28°R23 | 21°R51 | 14 II 10 | 15°D45 | 16) 46 | 24 <u>₽</u> 10 | 19 ≏ 12 | T 1 |
| | 18 41 33 | 10°16'35 | 2 ≏ 21 | 19°52 | 8°47 | 17°28 | 16 ≈ 7 | 11°28 | 28 × 20 | 21 ~ 50 | 14°12 | 15) 45 | 16°43 | 24°17 | 19°13 | W 2 |
| | 18 45 29 | 11°13'46 | 14°13 | 21°15 | 10° 1 | 17°35 | 16° 2 | 11°35 | 28°18 | 21°48 | 14°13 | 15°R45 | 16°40 | 24°23 | 19°15 | T 3 |
| | 18 49 26 | 12°10'57 | 26° 3 | 22°42 | 11°14 | 17°43 | 15°57 | 11°42 | 28°15 | 21°47 | 14°14 | 15°44 | 16°36 | 24°30 | 19°17 | F 4 |
| S 5 | 18 53 22 | 13° 8'09 | 7 M .56 | 24°13 | 12°28 | 17°51 | 15°51 | 11°49 | 28°13 | 21°45 | 14°15 | 15°41 | 16°33 | 24°37 | 19°19 | S 5 |
| | 18 57 19 | 14° 5'20 | 19°56 | 25°48 | 13°42 | 18° 1 | 15°46 | 11°56 | 28°11 | 21°44 | 14°17 | 15°36 | 16°30 | 24°43 | 19°21 | S 6 |
| | 19 1 15 | 15° 2'31 | 2 , ₹ 8 | 27°26 | 14°56 | 18°11 | 15°40 | 12° 3 | 28° 8 | 21°43 | 14°18 | 15°29 | 16°27 | 24°50 | 19°23 | M 7 |
| | 19 5 12 | 15°59'42 | 14°34 | 29° 8 | 16° 9 | 18°21 | 15°35 | 12°10 | 28° 6 | 21°41 | 14°19 | 15°20 | 16°24 | 24°57 | 19°26 | T 8 |
| | 19 9 8 | 16°56'54 | 2 <u>7</u> °16 | 0953 | 17°23 | 18°33 | 15°29 | 12°18 | 28° 4 | 21°40 | 14°20 | 15°10 | 16°21 | 25° 4 | 19°28 | W 9 |
| | 19 13 5 | 17°54'06 | 10 ਰ 15 | 2°42 | 18°37 | 18°45 | 15°23 | 12°25 | 28° 2 | 21°38 | 14°21 | 15° 0 | 16°17 | 25°10 | 19°31 | T 10 |
| | 19 17 2 | 18°51'18 | 23°30 | 4°33 | 19°51 | 18°58 | 15°17 | 12°32 | 27°59 | 21°37 | 14°23 | 14°51 | 16°14 | 25°17 | 19°33 | F 11 |
| S 12 | 19 20 58 | 19°48'30 | 6≈58 | 6°28 | 21° 5 | 19°11 | 15°10 | 12°39 | 27°57 | 21°35 | 14°24 | 14°44 | 16°11 | 25°24 | 19°36 | S 12 |
| S 13 | 19 24 55 | 20°45'43 | 20°39 | 8°25 | 22°19 | 19°25 | 15° 4 | 12°47 | 27°55 | 21°34 | 14°25 | 14°39 | 16° 8 | 25°30 | 19°39 | S 13 |
| M14 | 19 28 51 | 21°42'57 | 4 ∺ 29 | 10°24 | 23°32 | 19°40 | 14°58 | 12°54 | 27°53 | 21°33 | 14°26 | 14°37 | 16° 5 | 25°37 | 19°42 | M14 |
| T 15 | 19 32 48 | 22°40'11 | 18°27 | 12°25 | 24°46 | 19°55 | 14°51 | 13° 1 | 27°51 | 21°31 | 14°27 | 14°D37 | 16° 2 | 25°44 | 19°45 | T 15 |
| W16 | 19 36 44 | 23°37'26 | 2 Υ 30 | 14°28 | 26° 0 | 20°11 | 14°44 | 13° 9 | 27°49 | 21°30 | 14°28 | 14°37 | 15°58 | 25°50 | 19°48 | W16 |
| T 17 | 19 40 41 | 24°34'42 | 16°38 | 16°33 | 27°14 | 20°28 | 14°37 | 13°16 | 27°47 | 21°29 | 14°29 | 14°38 | 15°55 | 25°57 | 19°51 | T 17 |
| F 18 | 19 44 37 | 25°31'58 | 0 8 48 | 18°39 | 28°28 | 20°45 | 14°31 | 13°24 | 27°44 | 21°28 | 14°31 | 14°R39 | 15°52 | 26° 4 | 19°54 | F 18 |
| S 19 | 19 48 34 | 26°29'16 | 14°59 | 20°45 | 29°42 | 21° 2 | 14°24 | 13°31 | 27°42 | 21°26 | 14°32 | 14°37 | 15°49 | 26°10 | 19°58 | S 19 |
| S 20 | 19 52 31 | 27°26'35 | 29°10 | 22°52 | 0 Ω 56 | 21°21 | 14°16 | 13°39 | 27°40 | 21°25 | 14°33 | 14°34 | 15°46 | 26°17 | 20° 1 | S 20 |
| M21 | 19 56 27 | 28°23'55 | 13 Ⅱ 17 | 24°59 | 2°10 | 21°40 | 14° 9 | 13°46 | 27°38 | 21°24 | 14°34 | 14°28 | 15°42 | 26°24 | 20° 5 | M21 |
| T 22 | 20 0 24 | 29°21'15 | 27°16 | 27° 6 | 3°24 | 21°59 | 14° 2 | 13°54 | 27°36 | 21°23 | 14°35 | 14°22 | 15°39 | 26°30 | 20° 9 | T 22 |
| | 20 4 20 | 0 Ω 18'37 | 1199 6 | 29°12 | 4°38 | 22°19 | 13°55 | 14° 1 | 27°35 | 21°21 | 14°36 | 14°15 | 15°36 | 26°37 | 20°13 | W23 |
| | 20 8 17 | 1°16'00 | 24°41 | 1 \O 18 | 5°52 | 22°40 | 13°47 | 14° 9 | 27°33 | 21°20 | 14°37 | 14° 8 | 15°33 | 26°44 | 20°17 | T 24 |
| _ | 20 12 13 | 2°13'23 | $7\Omega_{59}$ | 3°24 | 7° 6 | 23° 1 | 13°40 | 14°16 | 27°31 | 21°19 | 14°38 | 14° 2 | 15°30 | 26°50 | 20°21 | F 25 |
| S 26 | 20 16 10 | 3°10'47 | 20°59 | 5°28 | 8°20 | 23°22 | 13°32 | 14°24 | 27°29 | 21°18 | 14°39 | 13°58 | 15°27 | 26°57 | 20°25 | S 26 |
| S 27 | 20 20 7 | 4° 8'12 | 3 m 41 | 7°31 | 9°34 | 23°44 | 13°25 | 14°31 | 27°27 | 21°17 | 14°40 | 13°56 | 15°23 | 27° 4 | 20°29 | S 27 |
| | 20 24 3 | 5° 5'37 | 16° 6 | 9°33 | 10°48 | 24° 7 | 13°17 | 14°39 | 27°25 | 21°16 | 14°41 | 13°D55 | 15°20 | 27°10 | 20°33 | M28 |
| T 29 | 20 28 0 | 6° 3'03 | 28°16 | 11°34 | 12° 2 | 24°30 | 13° 9 | 14°47 | 27°24 | 21°15 | 14°42 | 13°56 | 15°17 | 27°17 | 20°38 | T 29 |
| | 20 31 56 | 7° 0'30 | 10 ≏ 15 | 13°33 | 13°16 | 24°54 | 13° 2 | 14°54 | 27°22 | 21°14 | 14°43 | 13°58 | 15°14 | 27°24 | 20°42 | W30 |
| T 31 | 20 35 53 | $7\Omega 57'58$ | 22 요 7 | 15 Ω 31 | 14 Ω 30 | 25 M 18 | 12≈54 | 15 N 2 | 27 × 720 | 21 × 13 | 14∏44 | 13 米 59 | 15 米 11 | 27 ♀ 30 | 20 ≏ 47 | T 31 |

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| Day | Sid.t | \odot | D | φ | φ | o ⁷ | 4 | ħ |)∦(| ¥ | P 2 | ß | Ω | ţ | Š | Day |
|------|----------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|---------------|----------------|----------------|----------------|------|
| F 1 | 20 39 49 | 8 N 55'27 | 3 M .58 | 17 Ω 27 | 15 Ω 44 | 25 M 42 | 12°R46 | 15 Ω 10 | 27°R19 | 21°R12 | 14∏45 | 14°R 0 | 15) 8 | 27 ≏ 37 | 20 ≏ 51 | F 1 |
| S 2 | 20 43 46 | 9°52'56 | 15°51 | 19°22 | 16°58 | 26° 7 | 12 ≈ 38 | 15°17 | 27 × 17 | 21 × 11 | 14°45 | 14 ∺ 0 | 15° 4 | 27°44 | 20°56 | S 2 |
| S 3 | 20 47 42 | 10°50'26 | 27°53 | 21°15 | 18°12 | 26°33 | 12°30 | 15°25 | 27°16 | 21°10 | 14°46 | 13°59 | 15° 1 | 27°50 | 21° 1 | S 3 |
| M 4 | 20 51 39 | 11°47'57 | 10 × 7 | 23° 7 | 19°26 | 26°58 | 12°22 | 15°33 | 27°14 | 21° 9 | 14°47 | 13°56 | 14°58 | 27°57 | 21° 6 | M 4 |
| T 5 | 20 55 36 | 12°45'29 | 22°37 | 24°58 | 20°40 | 27°25 | 12°15 | 15°40 | 27°13 | 21° 8 | 14°48 | 13°52 | 14°55 | 28° 4 | 21°11 | T 5 |
| W 6 | 20 59 32 | 13°43'02 | 5 云 27 | 26°46 | 21°54 | 27°51 | 12° 7 | 15°48 | 27°11 | 21° 7 | 14°49 | 13°47 | 14°52 | 28°11 | 21°16 | W 6 |
| T 7 | 21 3 29 | 14°40'36 | 18°37 | 28°34 | 23° 8 | 28°18 | 11°59 | 15°56 | 27°10 | 21° 7 | 14°50 | 13°43 | 14°48 | 28°17 | 21°21 | T 7 |
| F 8 | 21 7 25 | 15°38'11 | 2≈ 7 | 0 m 19 | 24°23 | 28°46 | 11°51 | 16° 3 | 27° 8 | 21° 6 | 14°50 | 13°39 | 14°45 | 28°24 | 21°27 | F 8 |
| S 9 | 21 11 22 | 16°35'48 | 15°57 | 2° 4 | 25°37 | 29°14 | 11°43 | 16°11 | 27° 7 | 21° 5 | 14°51 | 13°35 | 14°42 | 28°31 | 21°32 | S 9 |
| S 10 | 21 15 18 | 17°33'25 | 0 ∺ 2 | 3°46 | 26°51 | 29°42 | 11°36 | 16°19 | 27° 6 | 21° 4 | 14°52 | 13°34 | 14°39 | 28°37 | 21°37 | S 10 |
| M11 | 21 19 15 | 18°31'04 | 14°18 | 5°28 | 28° 5 | 0 才 11 | 11°28 | 16°26 | 27° 5 | 21° 4 | 14°53 | 13°D33 | 14°36 | 28°44 | 21°43 | M11 |
| T 12 | 21 23 11 | 19°28'44 | 28°41 | 7° 8 | 29°19 | 0°40 | 11°20 | 16°34 | 27° 3 | 21° 3 | 14°53 | 13°34 | 14°33 | 28°51 | 21°48 | T 12 |
| W13 | 21 27 8 | 20°26'25 | 13 ° 7 | 8°46 | 0 m 33 | 1° 9 | 11°13 | 16°42 | 27° 2 | 21° 2 | 14°54 | 13°35 | 14°29 | 28°57 | 21°54 | W13 |
| T 14 | 21 31 5 | 21°24'08 | 27°30 | 10°23 | 1°47 | 1°38 | 11° 5 | 16°50 | 27° 1 | 21° 2 | 14°55 | 13°36 | 14°26 | 29° 4 | 22° 0 | T 14 |
| F 15 | 21 35 1 | 22°21'53 | 11 8 48 | 11°59 | 3° 1 | 2° 8 | 10°57 | 16°57 | 27° 0 | 21° 1 | 14°55 | 13°37 | 14°23 | 29°11 | 22° 6 | F 15 |
| S 16 | 21 38 58 | 23°19'40 | 25°58 | 13°33 | 4°16 | 2°39 | 10°50 | 17° 5 | 26°59 | 21° 1 | 14°56 | 13°R37 | 14°20 | 29°17 | 22°12 | S 16 |
| S 17 | 21 42 54 | 24°17'29 | 9∏59 | 15° 6 | 5°30 | 3° 9 | 10°42 | 17°13 | 26°58 | 21° 0 | 14°56 | 13°37 | 14°17 | 29°24 | 22°18 | S 17 |
| M18 | 21 46 51 | 25°15'19 | 23°48 | 16°37 | 6°44 | 3°40 | 10°35 | 17°20 | 26°57 | 21° 0 | 14°57 | 13°35 | 14°14 | 29°31 | 22°24 | M18 |
| T 19 | 21 50 47 | 26°13'11 | 79524 | 18° 7 | 7°58 | 4°12 | 10°28 | 17°28 | 26°56 | 20°59 | 14°58 | 13°33 | 14°10 | 29°37 | 22°30 | T 19 |
| W20 | 21 54 44 | 27°11'05 | 20°48 | 19°35 | 9°12 | 4°43 | 10°21 | 17°35 | 26°56 | 20°59 | 14°58 | 13°31 | 14° 7 | 29°44 | 22°36 | W20 |
| T 21 | 21 58 40 | 28° 9'01 | 3Ω 58 | 21° 2 | 10°26 | 5°15 | 10°13 | 17°43 | 26°55 | 20°58 | 14°59 | 13°29 | 14° 4 | 29°51 | 22°42 | T 21 |
| F 22 | 22 2 37 | 29° 6'58 | 16°53 | 22°28 | 11°41 | 5°48 | 10° 6 | 17°51 | 26°54 | 20°58 | 14°59 | 13°27 | 14° 1 | 29°57 | 22°49 | F 22 |
| S 23 | 22 6 34 | 0Mp 4'56 | 29°35 | 23°52 | 12°55 | 6°20 | 10° 0 | 17°58 | 26°53 | 20°58 | 15° 0 | 13°26 | 13°58 | OM 4 | 22°55 | S 23 |
| S 24 | 22 10 30 | 1° 2'57 | 12 m 3 | 25°14 | 14° 9 | 6°53 | 9°53 | 18° 6 | 26°53 | 20°57 | 15° 0 | 13°D26 | 13°54 | 0°11 | 23° 1 | S 24 |
| M25 | 22 14 27 | 2° 0'58 | 24°18 | 26°35 | 15°23 | 7°26 | 9°46 | 18°13 | 26°52 | 20°57 | 15° 1 | 13°26 | 13°51 | 0°18 | 23° 8 | M25 |
| T 26 | 22 18 23 | 2°59'02 | 6 ₽ 22 | 27°55 | 16°37 | 8° 0 | 9°39 | 18°21 | 26°52 | 20°57 | 15° 1 | 13°26 | 13°48 | 0°24 | 23°15 | T 26 |
| W27 | 22 22 20 | 3°57'06 | 18°18 | 29°13 | 17°51 | 8°33 | 9°33 | 18°28 | 26°51 | 20°57 | 15° 1 | 13°27 | 13°45 | 0°31 | 23°21 | W27 |
| T 28 | 22 26 16 | 4°55'13 | 0 M .10 | 0 ჲ 29 | 19° 6 | 9° 7 | 9°26 | 18°36 | 26°51 | 20°56 | 15° 2 | 13°28 | 13°42 | 0°38 | 23°28 | T 28 |
| F 29 | 22 30 13 | 5°53'21 | 11°59 | 1°43 | 20°20 | 9°42 | 9°20 | 18°43 | 26°50 | 20°56 | 15° 2 | 13°29 | 13°39 | 0°44 | 23°35 | F 29 |
| S 30 | 22 34 9 | 6°51'30 | 23°52 | 2°56 | 21°34 | 10°16 | 9°14 | 18°51 | 26°50 | 20°56 | 15° 3 | 13°30 | 13°35 | 0°51 | 23°42 | S 30 |
| S 31 | 22 38 6 | 7 m 49'41 | 5 ₹ 53 | 4 º 6 | 22 Mp 48 | 10 % 51 | 9≈ 8 | 18 Ω 58 | 26 × 750 | 20 х 56 | 15 I I 3 | 13°R30 | 13 ∺ 32 | 0 M .58 | 23 ≏ 49 | S 31 |

Delta T = 40.82 sec

SEPTEMBER 1653 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | P | ď | 4 | ħ |)ұ(| ¥ | Р | N. | v | Ç | ę, | Day |
|------|----------|------------------|-----------------|---------------|----------------|-----------------|-------|----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|------|
| M 1 | 22 42 3 | 8 m 47'53 | 18 ∡ 5 | 5 ≏ 15 | 24 Mp 2 | 11 × 126 | 9°R 2 | 19⋒ 6 | 26°R49 | 20°R56 | 15 I I 3 | 13°R30 | 13 ∺ 29 | 1 m 4 | 23 ≏ 55 | M 1 |
| T 2 | 22 45 59 | 9°46'07 | 0 궁 34 | 6°22 | 25°17 | 12° 1 | 8≈56 | 19°13 | 26 ₹ 49 | 20°D56 | 15° 3 | 13 米 29 | 13°26 | 1°11 | 24° 3 | T 2 |
| W 3 | 22 49 56 | 10°44'23 | 13°23 | 7°26 | 26°31 | 12°37 | 8°51 | 19°20 | 26°49 | 20 ∡ 756 | 15° 4 | 13°29 | 13°23 | 1°18 | 24°10 | W 3 |
| T 4 | 22 53 52 | 11°42'40 | 26°36 | 8°28 | 27°45 | 13°12 | 8°45 | 19°28 | 26°49 | 20°56 | 15° 4 | 13°29 | 13°20 | 1°24 | 24°17 | T 4 |
| F 5 | 22 57 49 | 12°40'59 | 10≈13 | 9°28 | 28°59 | 13°48 | 8°40 | 19°35 | 26°D49 | 20°56 | 15° 4 | 13°29 | 13°16 | 1°31 | 24°24 | F 5 |
| S 6 | 23 1 45 | 13°39'19 | 24°14 | 10°25 | 0 ჲ 13 | 14°24 | 8°35 | 19°42 | 26°49 | 20°56 | 15° 4 | 13°D29 | 13°13 | 1°38 | 24°31 | S 6 |
| S 7 | 23 5 42 | 14°37'41 | 8) (37 | 11°19 | 1°27 | 15° 1 | 8°30 | 19°50 | 26°49 | 20°57 | 15° 4 | 13°R29 | 13°10 | 1°44 | 24°38 | S 7 |
| M 8 | 23 938 | 15°36'04 | 23°16 | 12°10 | 2°42 | 15°37 | 8°25 | 19°57 | 26°49 | 20°57 | 15° 5 | 13°29 | 13° 7 | 1°51 | 24°46 | M 8 |
| T 9 | 23 13 35 | 16°34'30 | 8 ℃ 5 | 12°58 | 3°56 | 16°14 | 8°21 | 20° 4 | 26°49 | 20°57 | 15° 5 | 13°29 | 13° 4 | 1°58 | 24°53 | T 9 |
| W10 | 23 17 31 | 17°32'58 | 22°57 | 13°43 | 5°10 | 16°51 | 8°16 | 20°11 | 26°50 | 20°57 | 15° 5 | 13°28 | 13° 0 | 2° 5 | 25° 1 | W10 |
| T 11 | 23 21 28 | 18°31'27 | 7 8 44 | 14°24 | 6°24 | 17°28 | 8°12 | 20°18 | 26°50 | 20°57 | 15° 5 | 13°28 | 12°57 | 2°11 | 25° 8 | T 11 |
| F 12 | 23 25 25 | 19°29'59 | 22°19 | 15° 0 | 7°38 | 18° 6 | 8° 8 | 20°25 | 26°50 | 20°58 | 15° 5 | 13°27 | 12°54 | 2°18 | 25°16 | F 12 |
| S 13 | 23 29 21 | 20°28'34 | 6 Ⅱ 39 | 15°33 | 8°52 | 18°44 | 8° 4 | 20°32 | 26°51 | 20°58 | 15° 5 | 13°27 | 12°51 | 2°25 | 25°23 | S 13 |
| S 14 | 23 33 18 | 21°27'10 | 20°40 | 16° 1 | 10° 7 | 19°21 | 8° 0 | 20°39 | 26°51 | 20°58 | 15°R 5 | 13°D27 | 12°48 | 2°31 | 25°31 | S 14 |
| M15 | 23 37 14 | 22°25'49 | 49521 | 16°24 | 11°21 | 19°59 | 7°56 | 20°46 | 26°52 | 20°59 | 15° 5 | 13°27 | 12°45 | 2°38 | 25°39 | M15 |
| T 16 | 23 41 11 | 23°24'30 | 17°44 | 16°42 | 12°35 | 20°38 | 7°53 | 20°53 | 26°52 | 20°59 | 15° 5 | 13°27 | 12°41 | 2°45 | 25°46 | T 16 |
| W17 | 23 45 7 | 24°23'14 | 0 Ω 48 | 16°54 | 13°49 | 21°16 | 7°50 | 21° 0 | 26°53 | 21° 0 | 15° 5 | 13°28 | 12°38 | 2°51 | 25°54 | W17 |
| T 18 | 23 49 4 | 25°21'59 | 13°37 | 17°R 0 | 15° 3 | 21°54 | 7°47 | 21° 7 | 26°53 | 21° 0 | 15° 5 | 13°29 | 12°35 | 2°58 | 26° 2 | T 18 |
| F 19 | 23 53 1 | 26°20'47 | 26°12 | 16°59 | 16°17 | 22°33 | 7°44 | 21°14 | 26°54 | 21° 1 | 15° 5 | 13°30 | 12°32 | 3° 5 | 26°10 | F 19 |
| S 20 | 23 56 57 | 27°19'37 | 8 m)35 | 16°51 | 17°32 | 23°12 | 7°41 | 21°21 | 26°55 | 21° 1 | 15° 5 | 13°R31 | 12°29 | 3°11 | 26°18 | S 20 |
| S 21 | 0 0 54 | 28°18'28 | 20°48 | 16°37 | 18°46 | 23°51 | 7°39 | 21°27 | 26°55 | 21° 2 | 15° 5 | 13°31 | 12°25 | 3°18 | 26°26 | S 21 |
| M22 | 0 4 50 | 29°17'22 | 2 ჲ 52 | 16°15 | 20° 0 | 24°30 | 7°36 | 21°34 | 26°56 | 21° 3 | 15° 4 | 13°30 | 12°22 | 3°25 | 26°34 | M22 |
| T 23 | 0 8 47 | 0 ≏ 16'18 | 14°50 | 15°45 | 21°14 | 25°10 | 7°34 | 21°40 | 26°57 | 21° 3 | 15° 4 | 13°28 | 12°19 | 3°32 | 26°42 | T 23 |
| W24 | 0 12 43 | 1°15'16 | 26°43 | 15° 8 | 22°28 | 25°49 | 7°32 | 21°47 | 26°58 | 21° 4 | 15° 4 | 13°26 | 12°16 | 3°38 | 26°50 | W24 |
| T 25 | 0 16 40 | 2°14'16 | 8 M .33 | 14°24 | 23°42 | 26°29 | 7°31 | 21°53 | 26°59 | 21° 5 | 15° 4 | 13°23 | 12°13 | 3°45 | 26°58 | T 25 |
| F 26 | 0 20 36 | 3°13'17 | 20°22 | 13°33 | 24°56 | 27° 9 | 7°29 | 22° 0 | 27° 0 | 21° 6 | 15° 4 | 13°19 | 12°10 | 3°52 | 27° 6 | F 26 |
| S 27 | 0 24 33 | 4°12'21 | 2 ₹ 15 | 12°36 | 26°10 | 27°49 | 7°28 | 22° 6 | 27° 1 | 21° 6 | 15° 3 | 13°16 | 12° 6 | 3°58 | 27°14 | S 27 |
| S 28 | 0 28 29 | 5°11'27 | 14°14 | 11°33 | 27°25 | 28°29 | 7°27 | 22°13 | 27° 2 | 21° 7 | 15° 3 | 13°14 | 12° 3 | 4° 5 | 27°22 | S 28 |
| M29 | 0 32 26 | 6°10'34 | 26°24 | 10°26 | 28°39 | 29°10 | 7°26 | 22°19 | 27° 4 | 21° 8 | 15° 3 | 13°13 | 12° 0 | 4°12 | 27°30 | M29 |
| T 30 | 0 36 23 | 7 ♀ 9'43 | 8 건 49 | 9 ≙ 17 | 29 ≙ 53 | 29 × 750 | 7≈25 | 22 N 25 | 27 ₹ 5 | 21 ~ 9 | 15 I I 2 | 13°D12 | 11 米 57 | 4 M .18 | 27 ≏ 38 | T 30 |

Delta T = 40.76 sec

Greg. Calendar

| OCTOBER 1653 GC | 00:00 UT |
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| ULIUKER 1653 GL | 00*00 111 |
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| Day | Sid.t | 0 | D | φ | Q | δ | 4 | ħ | ᡟ | ¥ | Р | ß | ಬ | Ç | ķ | Day |
|------|---------|-----------------|----------------|----------------|----------------|----------------|-------|-------|---------------|-----------------|----------------|------------------|----------------|----------------|----------------|------|
| W 1 | 0 40 19 | 8 ♀ 8'54 | 21 る 32 | 8°R 7 | 1 m 7 | 0 ට 31 | 7°R25 | 22€31 | 27 ₹ 6 | 21 × 10 | 15°R 2 | 13 米 13 | 11 米 54 | 4ML25 | 27 ≙ 47 | W 1 |
| T 2 | 0 44 16 | 9° 8'07 | 4≈39 | 6 ≏ 58 | 2°21 | 1°12 | 7≈24 | 22°37 | 27° 7 | 21°11 | 15 II 2 | 13°14 | 11°51 | 4°32 | 27°55 | T 2 |
| F 3 | 0 48 12 | 10° 7'21 | 18°12 | 5°52 | 3°35 | 1°53 | 7°D24 | 22°44 | 27° 9 | 21°12 | 15° 1 | 13°16 | 11°47 | 4°38 | 28° 3 | F 3 |
| S 4 | 0 52 9 | 11° 6'37 | 2 ∺ 12 | 4°51 | 4°49 | 2°34 | 7°24 | 22°49 | 27°10 | 21°13 | 15° 1 | 13°17 | 11°44 | 4°45 | 28°12 | S 4 |
| S 5 | 0 56 5 | 12° 5'55 | 16°38 | 3°56 | 6° 3 | 3°15 | 7°25 | 22°55 | 27°12 | 21°14 | 15° 0 | 13°R17 | 11°41 | 4°52 | 28°20 | S 5 |
| M 6 | 1 0 2 | 13° 5'15 | 1 Υ 28 | 3° 9 | 7°17 | 3°56 | 7°25 | 23° 1 | 27°13 | 21°15 | 15° 0 | 13°16 | 11°38 | 4°59 | 28°28 | M 6 |
| T 7 | 1 3 58 | 14° 4'37 | 16°34 | 2°32 | 8°31 | 4°38 | 7°26 | 23° 7 | 27°15 | 21°16 | 15° 0 | 13°14 | 11°35 | 5° 5 | 28°37 | T 7 |
| W 8 | 1 7 55 | 15° 4'01 | 1847 | 2° 5 | 9°45 | 5°19 | 7°27 | 23°13 | 27°16 | 21°17 | 14°59 | 13°10 | 11°31 | 5°12 | 28°45 | W 8 |
| T 9 | 1 11 52 | 16° 3'27 | 16°56 | 1°49 | 10°59 | 6° 1 | 7°28 | 23°18 | 27°18 | 21°18 | 14°59 | 13° 5 | 11°28 | 5°19 | 28°53 | T 9 |
| F 10 | 1 15 48 | 17° 2'56 | 1 Ⅱ 53 | 1°D44 | 12°13 | 6°42 | 7°29 | 23°24 | 27°20 | 21°20 | 14°58 | 13° 0 | 11°25 | 5°25 | 29° 2 | F 10 |
| S 11 | 1 19 45 | 18° 2'26 | 16°29 | 1°50 | 13°27 | 7°24 | 7°30 | 23°30 | 27°22 | 21°21 | 14°57 | 12°56 | 11°22 | 5°32 | 29°10 | S 11 |
| S 12 | 1 23 41 | 19° 2'00 | 09541 | 2° 7 | 14°41 | 8° 6 | 7°32 | 23°35 | 27°23 | 21°22 | 14°57 | 12°53 | 11°19 | 5°39 | 29°19 | S 12 |
| M13 | 1 27 38 | 20° 1'35 | 14°25 | 2°34 | 15°55 | 8°48 | 7°34 | 23°40 | 27°25 | 21°23 | 14°56 | 12°D52 | 11°16 | 5°45 | 29°27 | M13 |
| T 14 | 1 31 34 | 21° 1'13 | 27°45 | 3°10 | 17° 9 | 9°31 | 7°36 | 23°46 | 27°27 | 21°25 | 14°56 | 12°52 | 11°12 | 5°52 | 29°36 | T 14 |
| W15 | 1 35 31 | 22° 0'53 | 10 Ω 41 | 3°55 | 18°23 | 10°13 | 7°38 | 23°51 | 27°29 | 21°26 | 14°55 | 12°53 | 11° 9 | 5°59 | 29°44 | W15 |
| T 16 | 1 39 27 | 23° 0'35 | 23°18 | 4°48 | 19°37 | 10°55 | 7°41 | 23°56 | 27°31 | 21°27 | 14°54 | 12°55 | 11° 6 | 6° 6 | 29°53 | T 16 |
| F 17 | 1 43 24 | 24° 0'20 | 5 m 39 | 5°48 | 20°51 | 11°38 | 7°43 | 24° 1 | 27°33 | 21°29 | 14°54 | 12°56 | 11° 3 | 6°12 | 0 M 1 | F 17 |
| S 18 | 1 47 21 | 25° 0'06 | 17°48 | 6°55 | 22° 5 | 12°20 | 7°46 | 24° 6 | 27°35 | 21°30 | 14°53 | 12°R56 | 11° 0 | 6°19 | 0°10 | S 18 |
| S 19 | 1 51 17 | 25°59'55 | 29°49 | 8° 7 | 23°19 | 13° 3 | 7°49 | 24°11 | 27°37 | 21°32 | 14°52 | 12°54 | 10°57 | 6°26 | 0°18 | S 19 |
| M20 | 1 55 14 | 26°59'46 | 11 ≏ 45 | 9°23 | 24°33 | 13°46 | 7°52 | 24°16 | 27°39 | 21°33 | 14°52 | 12°51 | 10°53 | 6°32 | 0°27 | M20 |
| T 21 | 1 59 10 | 27°59'39 | 23°37 | 10°44 | 25°46 | 14°29 | 7°56 | 24°21 | 27°42 | 21°35 | 14°51 | 12°45 | 10°50 | 6°39 | 0°35 | T 21 |
| W22 | 2 3 7 | 28°59'34 | 5 M 27 | 12° 8 | 27° 0 | 15°12 | 7°59 | 24°25 | 27°44 | 21°36 | 14°50 | 12°37 | 10°47 | 6°46 | 0°44 | W22 |
| T 23 | 2 7 3 | 29°59'31 | 17°18 | 13°35 | 28°14 | 15°55 | 8° 3 | 24°30 | 27°46 | 21°38 | 14°49 | 12°27 | 10°44 | 6°52 | 0°52 | T 23 |
| F 24 | 2 11 0 | 0M59'30 | 29°10 | 15° 5 | 29°28 | 16°38 | 8° 7 | 24°35 | 27°49 | 21°39 | 14°49 | 12°18 | 10°41 | 6°59 | 1° 1 | F 24 |
| S 25 | 2 14 56 | 1°59'30 | 11 % 6 | 16°36 | 0 , ₹42 | 17°21 | 8°11 | 24°39 | 27°51 | 21°41 | 14°48 | 12° 8 | 10°37 | 7° 6 | 1° 9 | S 25 |
| S 26 | 2 18 53 | 2°59'33 | 23° 8 | 18°10 | 1°56 | 18° 5 | 8°16 | 24°43 | 27°53 | 21°43 | 14°47 | 12° 0 | 10°34 | 7°13 | 1°18 | S 26 |
| M27 | 2 22 50 | 3°59'37 | 5 る 18 | 19°44 | 3°10 | 18°48 | 8°20 | 24°48 | 27°56 | 21°44 | 14°46 | 11°54 | 10°31 | 7°19 | 1°26 | M27 |
| T 28 | 2 26 46 | 4°59'43 | 17°41 | 21°19 | 4°23 | 19°32 | 8°25 | 24°52 | 27°58 | 21°46 | 14°45 | 11°50 | 10°28 | 7°26 | 1°35 | T 28 |
| W29 | 2 30 43 | 5°59'50 | 0≈20 | 22°56 | 5°37 | 20°15 | 8°30 | 24°56 | 28° 1 | 21°48 | 14°45 | 11°D48 | 10°25 | 7°33 | 1°43 | W29 |
| T 30 | 2 34 39 | 6°59'59 | 13°18 | 24°32 | 6°51 | 20°59 | 8°35 | 25° 0 | 28° 3 | 21°49 | 14°44 | 11°48 | 10°22 | 7°39 | 1°52 | T 30 |
| F 31 | 2 38 36 | 8M 0'09 | 26≈41 | 26 ♀ 10 | 8 才 5 | 21 る 43 | 8≈40 | 25⋒ 4 | 28 ∡ 6 | 21 × 751 | 14 Ⅱ 43 | 11) (49 | 10 米 18 | 7 M .46 | 2 m 0 | F 31 |

Delta T = 40.70 sec

NOVEMBER 1653 GC 00:00 UT

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|--|---|---|--|--|---|---|---|---|---|---|---|--|--|---|--|--|
| S 1 | 2 42 32 | 9M 0'21 | 10 ∺ 30 | 27 ≙ 47 | 9 ,7 19 | 22 පි 26 | 8 ≈ 46 | 25 N 8 | 28 才 9 | 21 × 753 | 14°R42 | 11°R50 | 10 ∺ 15 | 7 M 53 | 2M 9 | S 1 |
| S 2 | 2 46 29 | 10° 0'34 | 24°47 | 29°25 | 10°32 | 23°10 | 8°51 | 25°11 | 28°11 | 21°55 | 14 II 41 | 11) 49 | 10°12 | 7°59 | 2°17 | S 2 |
| M 3 | 2 50 25 | 11° 0'49 | 9 Y 30 | 1M, 2 | 11°46 | 23°54 | 8°57 | 25°15 | 28°14 | 21°56 | 14°40 | 11°46 | 10° 9 | 8° 6 | 2°26 | M 3 |
| T 4 | 2 54 22 | 12° 1'06 | 24°35 | 2°40 | 13° 0 | 24°38 | 9° 3 | 25°19 | 28°17 | 21°58 | 14°39 | 11°41 | 10° 6 | 8°13 | 2°34 | T 4 |
| W 5 | 2 58 19 | 13° 1'24 | 9 8 53 | 4°18 | 14°13 | 25°22 | 9° 9 | 25°22 | 28°19 | 22° 0 | 14°38 | 11°33 | 10° 2 | 8°20 | 2°43 | W 5 |
| T 6 | 3 2 15 | 14° 1'44 | 25°13 | 5°55 | 15°27 | 26° 6 | 9°15 | 25°25 | 28°22 | 22° 2 | 14°37 | 11°24 | 9°59 | 8°26 | 2°51 | T 6 |
| F 7 | 3 6 12 | 15° 2'06 | 10 II 24 | 7°32 | 16°41 | 26°50 | 9°22 | 25°29 | 28°25 | 22° 4 | 14°36 | 11°14 | 9°56 | 8°33 | 2°59 | F 7 |
| S 8 | 3 10 8 | 16° 2'29 | 25°16 | 9° 9 | 17°54 | 27°35 | 9°28 | 25°32 | 28°28 | 22° 6 | 14°35 | 11° 5 | 9°53 | 8°40 | 3° 8 | S 8 |
| S 9 | 3 14 5 | 17° 2'55 | 9©41 | 10°46 | 19° 8 | 28°19 | 9°35 | 25°35 | 28°31 | 22° 8 | 14°34 | 10°57 | 9°50 | 8°46 | 3°16 | S 9 |
| M10 | 3 18 1 | 18° 3'22 | 23°36 | 12°23 | 20°22 | 29° 3 | 9°42 | 25°38 | 28°34 | 22°10 | 14°33 | 10°53 | 9°47 | 8°53 | 3°25 | M10 |
| T 11 | 3 21 58 | 19° 3'51 | 7\Omega 1 | 14° 0 | 21°35 | 29°48 | 9°49 | 25°41 | 28°37 | 22°12 | 14°32 | 10°50 | 9°43 | 9° 0 | 3°33 | T 11 |
| W12 | 3 25 54 | 20° 4'22 | 19°58 | 15°36 | 22°49 | 0≈32 | 9°56 | 25°43 | 28°40 | 22°14 | 14°31 | 10°D49 | 9°40 | 9° 6 | 3°41 | W12 |
| T 13 | 3 29 51 | 21° 4'55 | 2\Omega 33 | 17°12 | 24° 2 | 1°17 | 10° 4 | 25°46 | 28°43 | 22°16 | 14°30 | 10°50 | 9°37 | 9°13 | 3°49 | T 13 |
| F 14 | 3 33 48 | 22° 5'30 | 14°49 | 18°48 | 25°16 | 2° 1 | 10°11 | 25°48 | 28°46 | 22°18 | 14°29 | 10°R50 | 9°34 | 9°20 | 3°58 | F 14 |
| S 15 | 3 37 44 | 23° 6'06 | 26°52 | 20°23 | 26°29 | 2°46 | 10°19 | 25°51 | 28°49 | 22°20 | 14°28 | 10°48 | 9°31 | 9°27 | 4° 6 | S 15 |
| S 16 | 3 41 41 | 24° 6'44 | 8 <u>0</u> 47 | 21°59 | 27°43 | 3°30 | 10°27 | 25°53 | 28°52 | 22°22 | 14°27 | 10°45 | 9°28 | 9°33 | 4°14 | S 16 |
| M17 | 3 45 37 | 25° 7'24 | 20°38 | 23°34 | 28°56 | 4°15 | 10°35 | 25°55 | 28°55 | 22°24 | 14°26 | 10°39 | 9°24 | 9°40 | 4°22 | M17 |
| T 18 | 3 49 34 | 26° 8'05 | 2 m 27 | 25° 9 | 0 ざ 10 | 5° 0 | 10°43 | 25°58 | 28°58 | 22°26 | 14°25 | 10°29 | 9°21 | 9°47 | 4°31 | T 18 |
| W19 | 3 53 30 | 27° 8'48 | 14°17 | 26°44 | 1°23 | 5°44 | 10°51 | 26° 0 | 29° 1 | 22°28 | 14°24 | 10°17 | 9°18 | 9°53 | 4°39 | W19 |
| T 20 | 3 57 27 | 28° 9'32 | 26°11 | 28°18 | 2°36 | 6°29 | 11° 0 | 26° 2 | 29° 5 | 22°30 | 14°22 | 10° 3 | 9°15 | 10° 0 | 4°47 | T 20 |
| F 21 | 4 1 23 | 29°10'18 | 8 x 10 | 29°53 | 3°50 | 7°14 | 11° 8 | 26° 3 | 29° 8 | 22°32 | 14°21 | 9°48 | 9°12 | 10° 7 | 4°55 | F 21 |
| S 22 | 4 5 20 | 0\$\times 11'05 | 20°14 | 1\$\sqrt{2}7 | 5°3 | 7°59 | 11°17 | 26° 5 | 29°11 | 22°34 | 14°20 | 9°34 | 9° 8 | 10°13 | 5° 3 | S 22 |
| S 23 M24 T 25 W26 T 27 F 28 S 29 S 30 | 4 9 17 4 13 13 4 17 10 4 21 6 4 25 3 4 28 59 4 32 56 4 36 52 | 1°11'53 2°12'43 3°13'33 4°14'24 5°15'17 6°16'10 7°17'03 | 2₹24 14°43 27°12 9≈53 22°50 6¥ 6 19°44 3¥46 | 3° 1 4°35 6°10 7°44 9°17 10°51 12°25 | 6°16 7°30 8°43 9°56 11° 9 12°22 13°35 | 8°44 9°29 10°14 10°58 11°44 12°29 13°14 | 11°26 11°35 11°44 11°53 12° 3 12°12 12°22 | 26° 7 26° 8 26° 9 26°11 26°12 26°13 26°14 | 29°14 29°18 29°21 29°24 29°28 29°31 29°34 | 22°36 22°39 22°41 22°43 22°45 22°47 22°49 | 14°19 14°18 14°17 14°16 14°15 14°13 14°12 | 9°21 9°11 9° 4 9° 0 8°58 8°58 8°57 | 9° 5 9° 2 8°59 8°56 8°53 8°49 8°46 | 10°20 10°27 10°34 10°40 10°47 10°54 11° 0 | 5°11 5°19 5°27 5°35 5°42 5°50 5°58 | S 23 M24 T 25 W26 T 27 F 28 S 29 S 30 |

Delta T = 40.64 sec

Greg. Calendar

| DECEMBER 1653 GC | 00:00 UT |
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| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)f(| ¥ | В | ¥ | ಭ | ţ | ę, | Day |
|------|---------|-------------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|------|
| M 1 | 4 40 49 | 9 ∡ 18'53 | 18 Y 12 | 15 ₹ 33 | 16 ට 1 | 14≈44 | 12≈42 | 26 Ω 15 | 29 × 741 | 22 才 54 | 14°R10 | 8°R53 | 8) (40 | 11 M .14 | 6 M 13 | M 1 |
| T 2 | 4 44 46 | 10°19'49 | 3 8 0 | 17° 7 | 17°14 | 15°29 | 12°52 | 26°16 | 29°45 | 22°56 | 14 I I 9 | 8) (46 | 8°37 | 11°21 | 6°21 | T 2 |
| W 3 | 4 48 42 | 11°20'46 | 18° 4 | 18°41 | 18°27 | 16°14 | 13° 2 | 26°16 | 29°48 | 22°58 | 14° 8 | 8°37 | 8°34 | 11°27 | 6°28 | W 3 |
| T 4 | 4 52 39 | 12°21'44 | 3 Ⅱ 15 | 20°14 | 19°40 | 16°59 | 13°12 | 26°17 | 29°52 | 23° 1 | 14° 6 | 8°26 | 8°30 | 11°34 | 6°36 | T 4 |
| F 5 | 4 56 35 | 13°22'43 | 18°22 | 21°48 | 20°53 | 17°44 | 13°22 | 26°17 | 29°55 | 23° 3 | 14° 5 | 8°14 | 8°27 | 11°41 | 6°43 | F 5 |
| S 6 | 5 0 32 | 14°23'42 | 39916 | 23°22 | 22° 6 | 18°30 | 13°33 | 26°17 | 29°59 | 23° 5 | 14° 4 | 8° 3 | 8°24 | 11°47 | 6°51 | S 6 |
| S 7 | 5 4 28 | 15°24'43 | 17°46 | 24°56 | 23°18 | 19°15 | 13°44 | 26°R17 | 0ට 2 | 23° 7 | 14° 3 | 7°53 | 8°21 | 11°54 | 6°58 | S 7 |
| M 8 | 5 8 25 | 16°25'44 | 1 Ω 49 | 26°30 | 24°31 | 20° 0 | 13°54 | 26°17 | 0° 6 | 23°10 | 14° 2 | 7°46 | 8°18 | 12° 1 | 7° 5 | M 8 |
| T 9 | 5 12 22 | 17°26'46 | 15°22 | 28° 4 | 25°44 | 20°45 | 14° 5 | 26°17 | 0° 9 | 23°12 | 14° 1 | 7°42 | 8°14 | 12° 8 | 7°13 | T 9 |
| W10 | 5 16 18 | 18°27'50 | 28°27 | 29°38 | 26°56 | 21°30 | 14°16 | 26°16 | 0°13 | 23°14 | 14° 0 | 7°41 | 8°11 | 12°14 | 7°20 | W10 |
| T 11 | 5 20 15 | 19°28'54 | 11 Mp 6 | 1 궁 12 | 28° 9 | 22°16 | 14°27 | 26°16 | 0°16 | 23°16 | 13°58 | 7°D40 | 8° 8 | 12°21 | 7°27 | T 11 |
| F 12 | 5 24 11 | 20°29'59 | 23°25 | 2°45 | 29°21 | 23° 1 | 14°38 | 26°15 | 0°20 | 23°19 | 13°57 | 7°R40 | 8° 5 | 12°28 | 7°34 | F 12 |
| S 13 | 5 28 8 | 21°31'05 | 5 Ω 29 | 4°19 | 0≈34 | 23°46 | 14°49 | 26°15 | 0°23 | 23°21 | 13°56 | 7°40 | 8° 2 | 12°34 | 7°41 | S 13 |
| S 14 | 5 32 4 | 22°32'12 | 17°23 | 5°52 | 1°46 | 24°31 | 15° 1 | 26°14 | 0°27 | 23°23 | 13°55 | 7°37 | 7°59 | 12°41 | 7°48 | S 14 |
| M15 | 5 36 1 | 23°33'20 | 29°12 | 7°25 | 2°58 | 25°17 | 15°12 | 26°13 | 0°31 | 23°25 | 13°54 | 7°31 | 7°55 | 12°48 | 7°55 | M15 |
| T 16 | 5 39 57 | 24°34'28 | 11 m 2 | 8°58 | 4°10 | 26° 2 | 15°24 | 26°12 | 0°34 | 23°28 | 13°53 | 7°23 | 7°52 | 12°54 | 8° 2 | T 16 |
| W17 | 5 43 54 | 25°35'37 | 22°54 | 10°30 | 5°22 | 26°47 | 15°35 | 26°11 | 0°38 | 23°30 | 13°51 | 7°12 | 7°49 | 13° 1 | 8° 8 | W17 |
| T 18 | 5 47 51 | 26°36'47 | 4 ₹ 53 | 12° 2 | 6°35 | 27°32 | 15°47 | 26°10 | 0°41 | 23°32 | 13°50 | 6°59 | 7°46 | 13° 8 | 8°15 | T 18 |
| F 19 | 5 51 47 | 27°37'57 | 16°59 | 13°33 | 7°47 | 28°18 | 15°59 | 26° 9 | 0°45 | 23°34 | 13°49 | 6°46 | 7°43 | 13°15 | 8°22 | F 19 |
| S 20 | 5 55 44 | 28°39'08 | 29°15 | 15° 3 | 8°59 | 29° 3 | 16°11 | 26° 7 | 0°49 | 23°37 | 13°48 | 6°32 | 7°40 | 13°21 | 8°28 | S 20 |
| S 21 | 5 59 40 | 29°40'19 | 11 궁 39 | 16°32 | 10°10 | 29°48 | 16°23 | 26° 6 | 0°52 | 23°39 | 13°47 | 6°20 | 7°36 | 13°28 | 8°35 | S 21 |
| M22 | 6 3 37 | 0 중 41'30 | 24°14 | 18° 0 | 11°22 | 0) €34 | 16°35 | 26° 4 | 0°56 | 23°41 | 13°46 | 6°11 | 7°33 | 13°35 | 8°41 | M22 |
| T 23 | 6 7 33 | 1°42'41 | 6≈58 | 19°26 | 12°34 | 1°19 | 16°47 | 26° 2 | 0°59 | 23°44 | 13°45 | 6° 4 | 7°30 | 13°41 | 8°48 | T 23 |
| W24 | 6 11 30 | 2°43'53 | 19°53 | 20°51 | 13°45 | 2° 4 | 16°59 | 26° 0 | 1° 3 | 23°46 | 13°44 | 6° 1 | 7°27 | 13°48 | 8°54 | W24 |
| T 25 | 6 15 26 | 3°45'04 | 3 ∺ 1 | 22°13 | 14°57 | 2°49 | 17°11 | 25°58 | 1° 7 | 23°48 | 13°43 | 5°D59 | 7°24 | 13°55 | 9° 0 | T 25 |
| F 26 | 6 19 23 | 4°46'15 | 16°22 | 23°32 | 16° 8 | 3°35 | 17°24 | 25°56 | 1°10 | 23°50 | 13°41 | 6° 0 | 7°20 | 14° 2 | 9° 6 | F 26 |
| S 27 | 6 23 20 | 5°47'26 | 29°58 | 24°48 | 17°20 | 4°20 | 17°36 | 25°54 | 1°14 | 23°53 | 13°40 | 6°R 0 | 7°17 | 14° 8 | 9°12 | S 27 |
| S 28 | 6 27 16 | 6°48'36 | 13 Y 51 | 26° 0 | 18°31 | 5° 5 | 17°49 | 25°52 | 1°18 | 23°55 | 13°39 | 6° 0 | 7°14 | 14°15 | 9°18 | S 28 |
| M29 | 6 31 13 | 7°49'47 | 28° 2 | 27° 8 | 19°42 | 5°51 | 18° 2 | 25°50 | 1°21 | 23°57 | 13°38 | 5°58 | 7°11 | 14°22 | 9°24 | M29 |
| T 30 | 6 35 9 | 8°50'57 | 12828 | 28°11 | 20°53 | 6°36 | 18°14 | 25°47 | 1°25 | 23°59 | 13°37 | 5°54 | 7° 8 | 14°28 | 9°30 | T 30 |
| W31 | 6 39 6 | 9 ප් 52'06 | 27 8 7 | 29궁 8 | 22≈ 4 | 7 ∺ 21 | 18 ≈ 27 | 25 Ω 44 | 1 る 28 | 24 × 1 | 13耳36 | 5) 48 | 7 米 5 | 14 M .35 | 9 M .36 | W31 |

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| F 2 S 3 | 6 43 2 6 46 59 6 50 56 | 10 ට 53'16 11°54'25 | 11 Ⅱ 53 | 29 궁 58 | | | | | | # | | | | Ç | ę, | Day |
|------------|------------------------------|-------------------------------|----------------|----------------|----------------|---------------|-------|----------------|---------------|---------------|-----------------|----------------|---------------|-----------------|----------------|------|
| S 3 | 6 50 56 | 11°54'25 | | 29000 | 23≈15 | 8 米 6 | 18≈40 | 25°R42 | 1 る 32 | 24 才 4 | 13°R35 | 5°R39 | 7 ∺ 1 | 14 M .42 | 9 M .41 | T 1 |
| | | | 26°39 | 0≈41 | 24°26 | 8°51 | 18°53 | 25 Ω 39 | 1°35 | 24° 6 | 13 Ⅱ 34 | 5 ∺ 30 | 6°58 | 14°49 | 9°47 | F 2 |
| 9 1 | | 12°55'34 | 119915 | 1°15 | 25°36 | 9°37 | 19° 6 | 25°36 | 1°39 | 24° 8 | 13°33 | 5°22 | 6°55 | 14°55 | 9°52 | S 3 |
| D 4 | 6 54 52 | 13°56'43 | 25°36 | 1°40 | 26°47 | 10°22 | 19°19 | 25°33 | 1°43 | 24°10 | 13°32 | 5°14 | 6°52 | 15° 2 | 9°58 | S 4 |
| M 5 | 6 58 49 | 14°57'51 | 9 Ω 34 | 1°55 | 27°57 | 11° 7 | 19°32 | 25°30 | 1°46 | 24°12 | 13°31 | 5° 9 | 6°49 | 15° 9 | 10° 3 | M 5 |
| T 6 | 7 2 45 | 15°58'59 | 23° 8 | 1°R58 | 29° 7 | 11°52 | 19°45 | 25°27 | 1°50 | 24°14 | 13°30 | 5° 6 | 6°46 | 15°15 | 10°8 | T 6 |
| W 7 | 7 6 42 | 17° 0'07 | 6Mp16 | 1°51 | 0 ∺ 17 | 12°37 | 19°58 | 25°24 | 1°53 | 24°17 | 13°29 | 5°D 6 | 6°42 | 15°22 | 10°13 | W 7 |
| T 8 | 7 10 38 | 18° 1'15 | 19° 0 | 1°31 | 1°27 | 13°22 | 20°12 | 25°21 | 1°57 | 24°19 | 13°28 | 5° 6 | 6°39 | 15°29 | 10°18 | T 8 |
| F 9 | 7 14 35 | 19° 2'23 | 1 ≏ 24 | 1° 0 | 2°37 | 14° 7 | 20°25 | 25°17 | 2° 0 | 24°21 | 13°27 | 5° 8 | 6°36 | 15°36 | 10°23 | F 9 |
| S 10 | 7 18 31 | 20° 3'30 | 13°31 | 0°17 | 3°46 | 14°52 | 20°38 | 25°14 | 2° 4 | 24°23 | 13°27 | 5° 9 | 6°33 | 15°42 | 10°28 | S 10 |
| S 11 | 7 22 28 | 21° 4'38 | 25°29 | 29 궁 24 | 4°56 | 15°37 | 20°52 | 25°10 | 2° 7 | 24°25 | 13°26 | 5°R 9 | 6°30 | 15°49 | 10°33 | S 11 |
| M12 | 7 26 25 | 22° 5'45 | 7 M 20 | 28°22 | 6° 5 | 16°22 | 21° 5 | 25° 7 | 2°11 | 24°27 | 13°25 | 5° 8 | 6°26 | 15°56 | 10°38 | M12 |
| T 13 | 7 30 21 | 23° 6'51 | 19°11 | 27°13 | 7°14 | 17° 7 | 21°19 | 25° 3 | 2°14 | 24°29 | 13°24 | 5° 4 | 6°23 | 16° 2 | 10°42 | T 13 |
| W14 | 7 34 18 | 24° 7'58 | 1 ₹ 6 | 25°59 | 8°24 | 17°52 | 21°33 | 24°59 | 2°17 | 24°31 | 13°23 | 4°59 | 6°20 | 16° 9 | 10°47 | W14 |
| T 15 | 7 38 14 | 25° 9'04 | 13° 9 | 24°42 | 9°32 | 18°37 | 21°46 | 24°55 | 2°21 | 24°33 | 13°22 | 4°52 | 6°17 | 16°16 | 10°51 | T 15 |
| F 16 | 7 42 11 | 26°10'09 | 25°22 | 23°24 | 10°41 | 19°22 | 22° 0 | 24°52 | 2°24 | 24°35 | 13°21 | 4°45 | 6°14 | 16°23 | 10°55 | F 16 |
| S 17 | 7 46 7 | 27°11'15 | 7 云 47 | 22° 9 | 11°50 | 20° 7 | 22°14 | 24°48 | 2°28 | 24°37 | 13°21 | 4°38 | 6°11 | 16°29 | 10°59 | S 17 |
| S 18 | 7 50 4 | 28°12'19 | 20°26 | 20°57 | 12°58 | 20°52 | 22°28 | 24°44 | 2°31 | 24°39 | 13°20 | 4°31 | 6° 7 | 16°36 | 11° 4 | S 18 |
| M19 | 7 54 0 | 29°13'23 | 3≈19 | 19°51 | 14° 6 | 21°37 | 22°41 | 24°39 | 2°34 | 24°41 | 13°19 | 4°26 | 6° 4 | 16°43 | 11°8 | M19 |
| T 20 | 7 57 57 | 0≈14'25 | 16°25 | 18°52 | 15°14 | 22°22 | 22°55 | 24°35 | 2°38 | 24°43 | 13°18 | 4°23 | 6° 1 | 16°49 | 11°11 | T 20 |
| W21 | 8 1 54 | 1°15'27 | 29°44 | 18° 1 | 16°22 | 23° 6 | 23° 9 | 24°31 | 2°41 | 24°45 | 13°18 | 4°D21 | 5°58 | 16°56 | 11°15 | W21 |
| T 22 | 8 5 50 | 2°16'28 | 13) 14 | 17°19 | 17°29 | 23°51 | 23°23 | 24°27 | 2°44 | 24°47 | 13°17 | 4°22 | 5°55 | 17° 3 | 11°19 | T 22 |
| F 23 | 8 9 47 | 3°17'27 | 26°54 | 16°46 | 18°37 | 24°36 | 23°37 | 24°22 | 2°47 | 24°49 | 13°16 | 4°23 | 5°52 | 17°10 | 11°22 | F 23 |
| S 24 | 8 13 43 | 4°18'26 | 10 Y 43 | 16°22 | 19°44 | 25°21 | 23°51 | 24°18 | 2°51 | 24°51 | 13°15 | 4°24 | 5°48 | 17°16 | 11°26 | S 24 |
| S 25 | 8 17 40 | 5°19'23 | 24°42 | 16° 6 | 20°51 | 26° 5 | 24° 5 | 24°14 | 2°54 | 24°53 | 13°15 | 4°26 | 5°45 | 17°23 | 11°29 | S 25 |
| M26 | 8 21 36 | 6°20'18 | 8 8 49 | 15°D59 | 21°58 | 26°50 | 24°19 | 24° 9 | 2°57 | 24°54 | 13°14 | 4°R26 | 5°42 | 17°30 | 11°32 | M26 |
| T 27 | 8 25 33 | 7°21'13 | 23° 2 | 15°59 | 23° 4 | 27°35 | 24°34 | 24° 5 | 3° 0 | 24°56 | 13°13 | 4°25 | 5°39 | 17°36 | 11°36 | T 27 |
| W28 | 8 29 29 | 8°22'06 | 7 Ⅱ 19 | 16° 7 | 24°10 | 28°19 | 24°48 | 24° 0 | 3° 3 | 24°58 | 13°13 | 4°23 | 5°36 | 17°43 | 11°39 | W28 |
| T 29 | 8 33 26 | 9°22'58 | 21°37 | 16°22 | 25°16 | 29° 4 | 25° 2 | 23°55 | 3° 6 | 25° 0 | 13°12 | 4°20 | 5°32 | 17°50 | 11°42 | T 29 |
| F 30 | 8 37 23 | 10°23'48 | 5952 | 16°43 | 26°22 | 29°48 | 25°16 | 23°51 | 3° 9 | 25° 1 | 13°12 | 4°16 | 5°29 | 17°57 | 11°44 | F 30 |
| S 31 | 8 41 19 | 11≈24'37 | 2099 0 | 17 궁 10 | 27 米 27 | 0 Y 33 | 25≈30 | 23 N 46 | 3 ට 12 | 25 ₹ 3 | 13 I I11 | 4) €13 | 5 ∺ 26 | 18 M 3 | 11 M 47 | S 31 |

Delta T = 40.52 sec

Greg. Calendar

FEBRUARY 1654 GC 00:00 UT

| Day | Sid.t | 0 |) | φ | φ | δ | 4 | ħ | ¥ | ¥ | Р | v | c | Ç | Š. | Day |
|------|----------|------------------|----------------|----------------|----------------|---------------|---------------|-----------------|---------------|-----------------------------|-----------------|----------------|---------------|-----------------|----------------|------|
| S 1 | 8 45 16 | 12≈25'25 | 3 Ω 55 | 17 云 43 | 28 米 32 | 1 Υ 17 | 25≈45 | 23°R41 | 3 ට 15 | 25 ₹ 5 | 13°R11 | 4°R10 | 5 ∺ 23 | 18 M .10 | 11 M 50 | S 1 |
| M 2 | 8 49 12 | 13°26'11 | 17°35 | 18°20 | 29°37 | 2° 2 | 25°59 | 23 Ω 37 | 3°18 | 25° 7 | 13 II 10 | 4) € 8 | 5°20 | 18°17 | 11°52 | M 2 |
| T 3 | 8 53 9 | 14°26'56 | 0 m 56 | 19° 2 | 0 Υ 42 | 2°46 | 26°13 | 23°32 | 3°21 | 25° 8 | 13°10 | 4°D 7 | 5°17 | 18°24 | 11°55 | T 3 |
| W 4 | 8 57 5 | 15°27'40 | 13°58 | 19°48 | 1°46 | 3°31 | 26°28 | 23°27 | 3°24 | 25°10 | 13° 9 | 4° 8 | 5°13 | 18°30 | 11°57 | W 4 |
| T 5 | 9 1 2 | 16°28'22 | 26°40 | 20°37 | 2°50 | 4°15 | 26°42 | 23°22 | 3°27 | 25°11 | 13° 9 | 4° 9 | 5°10 | 18°37 | 11°59 | T 5 |
| F 6 | 9 4 58 | 17°29'04 | 9 ₾ 5 | 21°31 | 3°54 | 4°59 | 26°56 | 23°17 | 3°30 | 25°13 | 13° 8 | 4°10 | 5° 7 | 18°44 | 12° 1 | F 6 |
| S 7 | 9 8 55 | 18°29'44 | 21°16 | 22°27 | 4°57 | 5°44 | 27°11 | 23°13 | 3°33 | 25°14 | 13° 8 | 4°11 | 5° 4 | 18°50 | 12° 3 | S 7 |
| S 8 | 9 12 52 | 19°30'23 | 3 M .16 | 23°26 | 6° 0 | 6°28 | 27°25 | 23° 8 | 3°36 | 25°16 | 13° 7 | 4°13 | 5° 1 | 18°57 | 12° 5 | S 8 |
| M 9 | 9 16 48 | 20°31'01 | 15°10 | 24°28 | 7° 2 | 7°12 | 27°39 | 23° 3 | 3°38 | 25°18 | 13° 7 | 4°13 | 4°58 | 19° 4 | 12° 6 | M 9 |
| T 10 | 9 20 45 | 21°31'37 | 27° 2 | 25°32 | 8° 4 | 7°56 | 27°54 | 22°58 | 3°41 | 25°19 | 13° 7 | 4°R13 | 4°54 | 19°11 | 12° 8 | T 10 |
| W11 | 9 24 41 | 22°32'13 | 8 ₹ 58 | 26°39 | 9° 6 | 8°40 | 28° 8 | 22°53 | 3°44 | 25°20 | 13° 6 | 4°13 | 4°51 | 19°17 | 12° 9 | W11 |
| T 12 | 9 28 38 | 23°32'47 | 21° 1 | 27°48 | 10° 8 | 9°24 | 28°23 | 22°48 | 3°46 | 25°22 | 13° 6 | 4°12 | 4°48 | 19°24 | 12°11 | T 12 |
| F 13 | 9 32 34 | 24°33'20 | 3 ਰ 17 | 28°58 | 11° 9 | 10° 8 | 28°37 | 22°43 | 3°49 | 25°23 | 13° 6 | 4°10 | 4°45 | 19°31 | 12°12 | F 13 |
| S 14 | 9 36 31 | 25°33'52 | 15°48 | 0≈11 | 12° 9 | 10°52 | 28°52 | 22°39 | 3°52 | 25°25 | 13° 6 | 4° 9 | 4°42 | 19°37 | 12°13 | S 14 |
| S 15 | 9 40 27 | 26°34'22 | 28°36 | 1°25 | 13°10 | 11°36 | 29° 6 | 22°34 | 3°54 | 25°26 | 13° 5 | 4° 8 | 4°38 | 19°44 | 12°14 | S 15 |
| M16 | 9 44 24 | 27°34'50 | 11≈44 | 2°41 | 14° 9 | 12°20 | 29°21 | 22°29 | 3°57 | 25°27 | 13° 5 | 4° 7 | 4°35 | 19°51 | 12°15 | M16 |
| T 17 | 9 48 21 | 28°35'18 | 25°10 | 3°59 | 15° 9 | 13° 4 | 29°35 | 22°24 | 3°59 | 25°29 | 13° 5 | 4° 7 | 4°32 | 19°58 | 12°16 | T 17 |
| W18 | 9 52 17 | 29°35'43 | 8) 53 | 5°18 | 16° 8 | 13°48 | 29°50 | 22°19 | 4° 1 | 25°30 | 13° 5 | 4°D 7 | 4°29 | 20° 4 | 12°17 | W18 |
| T 19 | 9 56 14 | 0) 36′06 | 22°51 | 6°39 | 17° 6 | 14°32 | 0) 4 | 22°14 | 4° 4 | 25°31 | 13° 5 | 4° 7 | 4°26 | 20°11 | 12°17 | T 19 |
| F 20 | 10 0 10 | 1°36'28 | 7 Υ 0 | 8° 1 | 18° 4 | 15°16 | 0°19 | 22°10 | 4° 6 | 25°32 | 13° 4 | 4° 7 | 4°23 | 20°18 | 12°18 | F 20 |
| S 21 | 10 4 7 | 2°36'48 | 21°15 | 9°24 | 19° 1 | 16° 0 | 0°33 | 22° 5 | 4° 8 | 25°33 | 13° 4 | 4° 7 | 4°19 | 20°24 | 12°18 | S 21 |
| S 22 | 10 8 3 | 3°37'06 | 5 8 33 | 10°48 | 19°58 | 16°43 | 0°48 | 22° 0 | 4°11 | 25°34 | 13° 4 | 4° 7 | 4°16 | 20°31 | 12°18 | S 22 |
| M23 | 10 12 0 | 4°37'22 | 19°51 | 12°14 | 20°54 | 17°27 | 1° 2 | 21°55 | 4°13 | 25°36 | 13° 4 | 4°R 7 | 4°13 | 20°38 | 12°R18 | M23 |
| T 24 | 10 15 56 | 5°37'35 | 4 I I 4 | 13°41 | 21°50 | 18°11 | 1°16 | 21°51 | 4°15 | 25°37 | 13° 4 | 4°D 7 | 4°10 | 20°45 | 12°18 | T 24 |
| W25 | 10 19 53 | 6°37'47 | 18°12 | 15° 9 | 22°45 | 18°54 | 1°31 | 21°46 | 4°17 | 25°38 | 13°D 4 | 4° 8 | 4° 7 | 20°51 | 12°18 | W25 |
| T 26 | 10 23 50 | 7°37'57 | 29्ड11 | 16°38 | 23°39 | 19°38 | 1°45 | 21°42 | 4°19 | 25°39 | 13° 4 | 4° 8 | 4° 4 | 20°58 | 12°18 | T 26 |
| F 27 | 10 27 46 | 8°38'04 | 16° 1 | 18° 9 | 24°33 | 20°21 | 2° 0 | 21°37 | 4°21 | 25°40 | 13° 4 | 4° 8 | 4° 0 | 21° 5 | 12°17 | F 27 |
| S 28 | 10 31 43 | 9) 38'10 | 299540 | 19 ≈ 40 | 25 Y 26 | 21 ° 5 | 2) 14 | $21\Omega_{32}$ | 4 云 23 | 25 × ⁷ 41 | 13 II 4 | 4) € 9 | 3 ∺ 57 | 21 M 12 | 12 M 17 | S 28 |

Delta T = 40.47 sec

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|------|----------|-------------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|------|
| S 1 | 10 35 39 | 10) 38'13 | 13 N 6 | 21≈13 | 26 Y 18 | 21 Y 48 | 2) 29 | 21°R28 | 4 る 25 | 25 √ 41 | 13 II 4 | 4 ∺ 9 | 3) (54 | 21 M .18 | 12°R16 | S 1 |
| M 2 | 10 39 36 | 11°38'14 | 26°20 | 22°47 | 27°10 | 22°32 | 2°43 | 21 Ω 24 | 4°27 | 25°42 | 13° 4 | 4°10 | 3°51 | 21°25 | 12 M .16 | M 2 |
| T 3 | 10 43 32 | 12°38'13 | 9 m 20 | 24°22 | 28° 1 | 23°15 | 2°57 | 21°19 | 4°29 | 25°43 | 13° 5 | 4°R10 | 3°48 | 21°32 | 12°15 | T 3 |
| W 4 | 10 47 29 | 13°38'10 | 22° 7 | 25°58 | 28°51 | 23°58 | 3°12 | 21°15 | 4°31 | 25°44 | 13° 5 | 4° 9 | 3°44 | 21°38 | 12°14 | W 4 |
| T 5 | 10 51 25 | 14°38'05 | 4 Ω 39 | 27°36 | 29°40 | 24°41 | 3°26 | 21°11 | 4°33 | 25°45 | 13° 5 | 4° 8 | 3°41 | 21°45 | 12°13 | T 5 |
| F 6 | 10 55 22 | 15°37'59 | 16°59 | 29°14 | 0 8 29 | 25°25 | 3°40 | 21° 6 | 4°34 | 25°46 | 13° 5 | 4° 7 | 3°38 | 21°52 | 12°12 | F 6 |
| S 7 | 10 59 19 | 16°37'50 | 29° 7 | 0 ∺ 54 | 1°16 | 26° 8 | 3°55 | 21° 2 | 4°36 | 25°46 | 13° 5 | 4° 5 | 3°35 | 21°59 | 12°10 | S 7 |
| S 8 | 11 3 15 | 17°37'40 | 11 m 7 | 2°34 | 2° 3 | 26°51 | 4° 9 | 20°58 | 4°38 | 25°47 | 13° 5 | 4° 3 | 3°32 | 22° 5 | 12° 9 | S 8 |
| M 9 | 11 7 12 | 18°37'28 | 23° 1 | 4°16 | 2°49 | 27°34 | 4°23 | 20°54 | 4°39 | 25°48 | 13° 6 | 4° 1 | 3°29 | 22°12 | 12° 8 | M 9 |
| T 10 | 11 11 8 | 19°37'15 | 4 ₹ 54 | 5°59 | 3°34 | 28°17 | 4°38 | 20°50 | 4°41 | 25°48 | 13° 6 | 4° 0 | 3°25 | 22°19 | 12° 6 | T 10 |
| W11 | 11 15 5 | 20°37'00 | 16°49 | 7°44 | 4°17 | 29° 0 | 4°52 | 20°46 | 4°42 | 25°49 | 13° 6 | 3°D59 | 3°22 | 22°25 | 12° 4 | W11 |
| T 12 | 11 19 1 | 21°36'43 | 28°51 | 9°29 | 5° 0 | 29°43 | 5° 6 | 20°42 | 4°44 | 25°49 | 13° 7 | 3°59 | 3°19 | 22°32 | 12° 3 | T 12 |
| F 13 | 11 22 58 | 22°36'24 | 11る 5 | 11°16 | 5°42 | 0 8 26 | 5°20 | 20°39 | 4°45 | 25°50 | 13° 7 | 4° 0 | 3°16 | 22°39 | 12° 1 | F 13 |
| S 14 | 11 26 54 | 23°36'03 | 23°35 | 13° 4 | 6°22 | 1° 9 | 5°34 | 20°35 | 4°47 | 25°50 | 13° 7 | 4° 1 | 3°13 | 22°46 | 11°59 | S 14 |
| S 15 | 11 30 51 | 24°35'41 | 6≈26 | 14°53 | 7° 2 | 1°52 | 5°48 | 20°31 | 4°48 | 25°51 | 13° 8 | 4° 3 | 3°10 | 22°52 | 11°57 | S 15 |
| M16 | 11 34 48 | 25°35'17 | 19°39 | 16°44 | 7°40 | 2°34 | 6° 3 | 20°28 | 4°49 | 25°51 | 13° 8 | 4° 4 | 3° 6 | 22°59 | 11°54 | M16 |
| T 17 | 11 38 44 | 26°34'50 | 3) 16 | 18°36 | 8°17 | 3°17 | 6°17 | 20°24 | 4°50 | 25°52 | 13° 8 | 4°R 5 | 3° 3 | 23° 6 | 11°52 | T 17 |
| W18 | 11 42 41 | 27°34'22 | 17°17 | 20°29 | 8°52 | 4° 0 | 6°31 | 20°21 | 4°52 | 25°52 | 13° 9 | 4° 4 | 3° 0 | 23°12 | 11°50 | W18 |
| T 19 | 11 46 37 | 28°33'52 | 1 Y 38 | 22°23 | 9°26 | 4°43 | 6°45 | 20°18 | 4°53 | 25°52 | 13° 9 | 4° 3 | 2°57 | 23°19 | 11°47 | T 19 |
| F 20 | 11 50 34 | 29°33'20 | 16°14 | 24°18 | 9°59 | 5°25 | 6°58 | 20°14 | 4°54 | 25°53 | 13°10 | 4° 0 | 2°54 | 23°26 | 11°45 | F 20 |
| S 21 | 11 54 30 | 0 Υ 32'46 | 0 8 59 | 26°15 | 10°30 | 6° 8 | 7°12 | 20°11 | 4°55 | 25°53 | 13°10 | 3°56 | 2°50 | 23°33 | 11°42 | S 21 |
| S 22 | 11 58 27 | 1°32'09 | 15°44 | 28°13 | 11° 0 | 6°50 | 7°26 | 20° 8 | 4°56 | 25°53 | 13°11 | 3°52 | 2°47 | 23°39 | 11°39 | S 22 |
| M23 | 12 2 23 | 2°31'30 | 0 Ⅲ 23 | 0 Υ 12 | 11°28 | 7°33 | 7°40 | 20° 5 | 4°57 | 25°53 | 13°11 | 3°49 | 2°44 | 23°46 | 11°37 | M23 |
| T 24 | 12 6 20 | 3°30'49 | 14°50 | 2°12 | 11°55 | 8°15 | 7°54 | 20° 2 | 4°57 | 25°53 | 13°12 | 3°46 | 2°41 | 23°53 | 11°34 | T 24 |
| W25 | 12 10 17 | 4°30'06 | 29° 2 | 4°13 | 12°20 | 8°58 | 8° 8 | 20° 0 | 4°58 | 25°54 | 13°13 | 3°D45 | 2°38 | 24° 0 | 11°31 | W25 |
| T 26 | 12 14 13 | 5°29'20 | 12955 | 6°15 | 12°43 | 9°40 | 8°21 | 19°57 | 4°59 | 25°54 | 13°13 | 3°45 | 2°35 | 24° 6 | 11°28 | T 26 |
| F 27 | 12 18 10 | 6°28'32 | 26°32 | 8°18 | 13° 4 | 10°22 | 8°35 | 19°54 | 5° 0 | 25°54 | 13°14 | 3°46 | 2°31 | 24°13 | 11°24 | F 27 |
| S 28 | 12 22 6 | 7°27'42 | 9 Ω 51 | 10°22 | 13°23 | 11° 5 | 8°49 | 19°52 | 5° 0 | 25°R54 | 13°14 | 3°48 | 2°28 | 24°20 | 11°21 | S 28 |
| S 29 | 12 26 3 | 8°26'49 | 22°55 | 12°26 | 13°41 | 11°47 | 9° 2 | 19°49 | 5° 1 | 25°54 | 13°15 | 3°49 | 2°25 | 24°26 | 11°18 | S 29 |
| M30 | 12 29 59 | 9°25'54 | 5 m 46 | 14°30 | 13°56 | 12°29 | 9°16 | 19°47 | 5° 1 | 25°54 | 13°16 | 3°R49 | 2°22 | 24°33 | 11°14 | M30 |
| T 31 | 12 33 56 | 10 Y 24'56 | 18 m 25 | 16 Y 34 | 14 8 9 | 13 8 11 | 9 ∺ 29 | 19 Ω 45 | 5る 2 | 25 ∡ 754 | 13 Ⅱ 17 | 3) €48 | 2) 19 | 24M40 | 11 M .11 | T 31 |

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Greg. Calendar

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| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)f(| ¥ | В | V | v | Ç | ę, | Day |
|------|----------|-------------------|----------------|----------------|--------|----------------|------------------|----------------|---------------|-----------------|----------------|---------------|---------------|----------------|---------------|------|
| W 1 | 12 37 52 | 11 Y 23'56 | 0 ჲ 53 | 18 Y 38 | 14820 | 13 8 53 | 9) (42 | 19°R43 | 5号 2 | 25°R53 | 13 Ⅱ 17 | 3°R46 | 2) 15 | 24 M 47 | 11°R 7 | W 1 |
| T 2 | 12 41 49 | 12°22'55 | 13°12 | 20°41 | 14°29 | 14°35 | 9°56 | 19 Ω 41 | 5° 3 | 25 × 753 | 13°18 | 3 ∺ 41 | 2°12 | 24°53 | 11 m 4 | T 2 |
| F 3 | 12 45 45 | 13°21'51 | 25°22 | 22°44 | 14°36 | 15°17 | 10° 9 | 19°39 | 5° 3 | 25°53 | 13°19 | 3°34 | 2° 9 | 25° 0 | 11° 0 | F 3 |
| S 4 | 12 49 42 | 14°20'45 | 7 M 25 | 24°45 | 14°40 | 15°59 | 10°22 | 19°37 | 5° 3 | 25°53 | 13°20 | 3°27 | 2° 6 | 25° 7 | 10°56 | S 4 |
| S 5 | 12 53 39 | 15°19'38 | 19°22 | 26°45 | 14°R42 | 16°41 | 10°35 | 19°35 | 5° 3 | 25°53 | 13°20 | 3°19 | 2° 3 | 25°13 | 10°52 | S 5 |
| M 6 | 12 57 35 | 16°18'28 | 1 √ 15 | 28°43 | 14°42 | 17°23 | 10°49 | 19°34 | 5° 4 | 25°52 | 13°21 | 3°12 | 2° 0 | 25°20 | 10°49 | M 6 |
| T 7 | 13 1 32 | 17°17'17 | 13° 7 | 0 8 39 | 14°39 | 18° 5 | 11° 2 | 19°32 | 5° 4 | 25°52 | 13°22 | 3° 5 | 1°56 | 25°27 | 10°45 | T 7 |
| W 8 | 13 5 28 | 18°16'04 | 25° 1 | 2°32 | 14°34 | 18°47 | 11°15 | 19°31 | 5° 4 | 25°52 | 13°23 | 3° 0 | 1°53 | 25°34 | 10°41 | W 8 |
| T 9 | 13 9 25 | 19°14'49 | 7ਰ 1 | 4°23 | 14°26 | 19°29 | 11°28 | 19°30 | 5°R 4 | 25°51 | 13°24 | 2°58 | 1°50 | 25°40 | 10°37 | T 9 |
| F 10 | 13 13 21 | 20°13'32 | 19°12 | 6°10 | 14°16 | 20°10 | 11°40 | 19°28 | 5° 4 | 25°51 | 13°25 | 2°D57 | 1°47 | 25°47 | 10°33 | F 10 |
| S 11 | 13 17 18 | 21°12'14 | 1 ≈ 39 | 7°53 | 14° 3 | 20°52 | 11°53 | 19°27 | 5° 4 | 25°51 | 13°26 | 2°57 | 1°44 | 25°54 | 10°28 | S 11 |
| S 12 | 13 21 14 | 22°10'54 | 14°25 | 9°33 | 13°48 | 21°34 | 12° 6 | 19°26 | 5° 4 | 25°50 | 13°26 | 2°58 | 1°41 | 26° 1 | 10°24 | S 12 |
| M13 | 13 25 11 | 23° 9'32 | 27°36 | 11° 9 | 13°31 | 22°15 | 12°19 | 19°25 | 5° 3 | 25°50 | 13°27 | 2°R59 | 1°37 | 26° 7 | 10°20 | M13 |
| T 14 | 13 29 8 | 24° 8'09 | 11 米 14 | 12°41 | 13°11 | 22°57 | 12°31 | 19°25 | 5° 3 | 25°49 | 13°28 | 2°59 | 1°34 | 26°14 | 10°16 | T 14 |
| W15 | 13 33 4 | 25° 6'44 | 25°20 | 14° 8 | 12°49 | 23°38 | 12°44 | 19°24 | 5° 3 | 25°48 | 13°29 | 2°57 | 1°31 | 26°21 | 10°11 | W15 |
| T 16 | 13 37 1 | 26° 5'17 | 9 Ƴ 52 | 15°30 | 12°24 | 24°20 | 12°56 | 19°23 | 5° 3 | 25°48 | 13°30 | 2°53 | 1°28 | 26°27 | 10° 7 | T 16 |
| F 17 | 13 40 57 | 27° 3'48 | 24°45 | 16°48 | 11°58 | 25° 1 | 13° 9 | 19°23 | 5° 2 | 25°47 | 13°31 | 2°46 | 1°25 | 26°34 | 10° 3 | F 17 |
| S 18 | 13 44 54 | 28° 2'17 | 9 8 51 | 18° 1 | 11°30 | 25°43 | 13°21 | 19°23 | 5° 2 | 25°47 | 13°32 | 2°38 | 1°21 | 26°41 | 9°58 | S 18 |
| S 19 | 13 48 50 | 29° 0'45 | 25° 0 | 19° 9 | 10°59 | 26°24 | 13°33 | 19°22 | 5° 1 | 25°46 | 13°33 | 2°30 | 1°18 | 26°48 | 9°54 | S 19 |
| M20 | 13 52 47 | 29°59'10 | 10耳 2 | 20°12 | 10°28 | 27° 5 | 13°45 | 19°22 | 5° 1 | 25°45 | 13°34 | 2°22 | 1°15 | 26°54 | 9°49 | M20 |
| T 21 | 13 56 43 | 0 8 57'34 | 24°48 | 21°10 | 9°54 | 27°47 | 13°57 | 19°D22 | 5° 0 | 25°44 | 13°35 | 2°15 | 1°12 | 27° 1 | 9°45 | T 21 |
| W22 | 14 0 40 | 1°55'55 | 99912 | 22° 2 | 9°20 | 28°28 | 14° 9 | 19°22 | 5° 0 | 25°44 | 13°37 | 2°11 | 1° 9 | 27° 8 | 9°40 | W22 |
| T 23 | 14 4 37 | 2°54'14 | 23°11 | 22°49 | 8°44 | 29° 9 | 14°21 | 19°22 | 4°59 | 25°43 | 13°38 | 2° 9 | 1° 6 | 27°14 | 9°36 | T 23 |
| F 24 | 14 8 33 | 3°52'31 | 6 Ω 46 | 23°31 | 8° 7 | 29°50 | 14°33 | 19°23 | 4°58 | 25°42 | 13°39 | 2°D 8 | 1° 2 | 27°21 | 9°31 | F 24 |
| S 25 | 14 12 30 | 4°50'46 | 19°58 | 24° 8 | 7°30 | 0Д32 | 14°45 | 19°23 | 4°57 | 25°41 | 13°40 | 2° 9 | 0°59 | 27°28 | 9°26 | S 25 |
| S 26 | 14 16 26 | 5°48'59 | 2 m 50 | 24°39 | 6°52 | 1°13 | 14°56 | 19°24 | 4°57 | 25°40 | 13°41 | 2°R 9 | 0°56 | 27°35 | 9°22 | S 26 |
| M27 | 14 20 23 | 6°47'09 | 15°27 | 25° 4 | 6°14 | 1°54 | 15° 8 | 19°24 | 4°56 | 25°39 | 13°42 | 2° 8 | 0°53 | 27°41 | 9°17 | M27 |
| T 28 | 14 24 19 | 7°45'18 | 27°50 | 25°24 | 5°36 | 2°35 | 15°19 | 19°25 | 4°55 | 25°39 | 13°43 | 2° 6 | 0°50 | 27°48 | 9°13 | T 28 |
| W29 | 14 28 16 | 8°43'25 | 10 ♀ 4 | 25°39 | 4°59 | 3°16 | 15°31 | 19°26 | 4°54 | 25°38 | 13°44 | 2° 0 | 0°47 | 27°55 | 9° 8 | W29 |
| T 30 | 14 32 12 | 9 8 41'30 | 22 ≏ 11 | 25 8 48 | 4822 | 3 Ⅱ 57 | 15) (42 | $19\Omega 27$ | 4 궁 53 | 25 ∡ ³37 | 13 Ⅱ 46 | 1 ₩52 | 0) 43 | 28M 2 | 9M 4 | T 30 |

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MAY 1654 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)ұ(| ¥ | В | ß | v | ţ | ę, | Day |
|--------------|----------------------|-----------------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|---------------|-----------------|----------------|----------------|----------------|---------------|----------------|--------------|
| F 1 | 14 36 9 | 10839'33 | 4 M J11 | 25°R52 | 3°R46 | 4 Ⅲ 37 | 15) 53 | 19 N 28 | 4°R52 | 25°R36 | 13 Ⅱ 47 | 1°R41 | 0) (40 | 28 M 8 | 8°R59 | F 1 |
| S 2 | 14 40 6 | 11°37'35 | 16° 8 | 25 8 51 | 3 8 11 | 5°18 | 16° 4 | 19°29 | 4 궁 51 | 25 ₹ 35 | 13°48 | 1 米 29 | 0°37 | 28°15 | 8 M .54 | S 2 |
| S 3 | 14 44 2 | 12°35'35 | 28° 2 | 25°45 | 2°37 | 5°59 | 16°15 | 19°30 | 4°50 | 25°34 | 13°49 | 1°16 | 0°34 | 28°22 | 8°50 | S 3 |
| M 4 | 14 47 59 | 13°33'33 | 9 ∡ 754 | 25°34 | 2° 5 | 6°40 | 16°26 | 19°32 | 4°48 | 25°32 | 13°50 | 1° 3 | 0°31 | 28°28 | 8°45 | M 4 |
| T 5 | 14 51 55 | 14°31'30 | 21°47 | 25°19 | 1°34 | 7°21 | 16°37 | 19°33 | 4°47 | 25°31 | 13°52 | 0°52 | 0°27 | 28°35 | 8°41 | T 5 |
| W 6 | 14 55 52 | 15°29'26 | 3 ⋜ 43 | 24°59 | 1° 5 | 8° 1 | 16°48 | 19°35 | 4°46 | 25°30 | 13°53 | 0°43 | 0°24 | 28°42 | 8°36 | W 6 |
| T 7 | 14 59 48 | 16°27'20 | 15°44 | 24°36 | 0°39 | 8°42 | 16°58 | 19°36 | 4°45 | 25°29 | 13°54 | 0°37 | 0°21 | 28°49 | 8°32 | T 7 |
| F 8 | 15 3 45 | 17°25'13 | 27°54 | 24° 9 | 0°14 | 9°22 | 17° 9 | 19°38 | 4°43 | 25°28 | 13°55 | 0°33 | 0°18 | 28°55 | 8°27 | F 8 |
| S 9 | 15 741 | 18°23'04 | 10 ≈ 19 | 23°40 | 29 Y 51 | 10° 3 | 17°19 | 19°40 | 4°42 | 25°27 | 13°57 | 0°32 | 0°15 | 29° 2 | 8°23 | S 9 |
| S 10 | 15 11 38 | 19°20'55 | 23° 1 | 23° 8 | 29°31 | 10°44 | 17°30 | 19°42 | 4°40 | 25°26 | 13°58 | 0°32 | 0°12 | 29° 9 | 8°18 | S 10 |
| M11 | 15 15 35 | 20°18'44 | 6 ∀ 6 | 22°35 | 29°13 | 11°24 | 17°40 | 19°44 | 4°39 | 25°24 | 13°59 | 0°32 | 0° 8 | 29°16 | 8°14 | M11 |
| T 12 | 15 19 31 | 21°16'32 | 19°38 | 22° 0 | 28°57 | 12° 5 | 17°50 | 19°46 | 4°37 | 25°23 | 14° 1 | 0°31 | 0° 5 | 29°22 | 8° 9 | T 12 |
| W13 | 15 23 28 | 22°14'18 | 3 Ƴ 39 | 21°25 | 28°44 | 12°45 | 18° 0 | 19°48 | 4°36 | 25°22 | 14° 2 | 0°28 | 0° 2 | 29°29 | 8° 5 | W13 |
| T 14 | 15 27 24 | 23°12'04 | 18° 8 | 20°50 | 28°34 | 13°25 | 18°10 | 19°51 | 4°34 | 25°20 | 14° 3 | 0°22 | 29≈59 | 29°36 | 8° 1 | T 14 |
| F 15 | 15 31 21 | 24° 9'48 | 3 8 3 | 20°16 | 28°25 | 14° 6 | 18°19 | 19°53 | 4°33 | 25°19 | 14° 4 | 0°14 | 29°56 | 29°42 | 7°56 | F 15 |
| S 16 | 15 35 17 | 25° 7'32 | 18°15 | 19°43 | 28°19 | 14°46 | 18°29 | 19°56 | 4°31 | 25°18 | 14° 6 | 0° 4 | 29°53 | 29°49 | 7°52 | S 16 |
| S 17 | 15 39 14 | 26° 5'14 | 3 Ⅱ 34 | 19°12 | 28°16 | 15°26 | 18°38 | 19°59 | 4°29 | 25°17 | 14° 7 | 29≈53 | 29°49 | 29°56 | 7°48 | S 17 |
| M18 | 15 43 10 | 27° 2'55 | 18°50 | 18°43 | 28°D15 | 16° 7 | 18°48 | 20° 1 | 4°28 | 25°15 | 14° 8 | 29°42 | 29°46 | 0 ∡ 3 | 7°44 | M18 |
| T 19 | 15 47 7 | 28° 0'34 | 3950 | 18°18 | 28°16 | 16°47 | 18°57 | 20° 4 | 4°26 | 25°14 | 14°10 | 29°34 | 29°43 | 0° 9 | 7°40 | T 19 |
| W20 | 15 51 4 | 28°58'12 | 18°27 | 17°55 | 28°19 | 17°27 | 19° 6 | 20° 7 | 4°24 | 25°12 | 14°11 | 29°27 | 29°40 | 0°16 | 7°35 | W20 |
| T 21 | 15 55 0 | 29°55'49 | 2 Ω 37 | 17°36 | 28°25 | 18° 7 | 19°15 | 20°10 | 4°22 | 25°11 | 14°13 | 29°24 | 29°37 | 0°23 | 7°31 | T 21 |
| F 22 S 23 | 15 58 57 16 2 53 | 0 Д 53'23 1°50'57 | 16°18 29°32 | 17°20 17° 9 | 28°33 28°43 | 18°48 19°28 | 19°24 19°33 | 20°13 20°17 | 4°20 4°18 | 25°10 25° 8 | 14°14 14°15 | 29°22 29°22 | 29°33 29°30 | 0°29 0°36 | 7°27 7°24 | F 22 S 23 |
| | | | | | | | | | | | | - | | | | |
| S 24 | 16 6 50 | 2°48'29 | 12 m 22 | 17° 2 | 28°55 | 20° 8 | 19°41 | 20°20 | 4°17 | 25° 7 | 14°17 | 29°22 | 29°27 | 0°43 | 7°20 | S 24 |
| M25 | 16 10 46 | 3°45'59 | 24°54 | 16°D59 | 29° 9 | 20°48 | 19°50 | 20°23 | 4°15 | 25° 5 | 14°18 | 29°20 | 29°24 | 0°50 | 7°16 | M25 |
| T 26 | 16 14 43 | 4°43'28 | 7 Ω 11 | 17° 1 | 29°25 | 21°28 | 19°58 | 20°27 | 4°13 | 25° 4 | 14°19 | 29°17 | 29°21 | 0°56 | 7°12 | T 26 |
| W27 | 16 18 39 | 5°40'56 | 19°17 | 17° 7 | 29°43 | 22° 8 | 20° 6 | 20°30 | 4°11 | 25° 2 | 14°21 | 29°11 29° 3 | 29°18 | 1° 3 | 7° 9 7° 5 | W27 |
| T 28 F 29 | 16 22 36 16 26 33 | 6°38'23 7°35'49 | 1 M J16 13°11 | 17°17 17°32 | 08 3 0°25 | 22°48 23°28 | 20°14 20°22 | 20°34 20°38 | 4° 8 4° 6 | 25° 1 24°59 | 14°22 14°24 | 29° 3 28°51 | 29°14 29°11 | 1°10 1°17 | 7° 5 7° 1 | T 28 F 29 |
| S 30 | 16 26 33 | 8°33'13 | 25° 3 | 17°52 | 0°23 0°48 | 23°28 24° 7 | 20°22 20°30 | 20°38 20°42 | 4° 6 | 24°59 24°58 | 14°24 | 28°39 | 29°11 29° 8 | 1°17 1°23 | 6°58 | S 30 |
| | | | | | | | | _ | | | _ | | | | | |
| S 31 | 16 34 26 | 9 Ⅱ 30'37 | 6 ₹ 56 | 18 8 16 | 1813 | 24∏47 | 20 ∺ 38 | 20 Ω 46 | 4る 2 | 24 × 756 | 14∏26 | 28≈25 | 29≈ 5 | 1 ₹ 30 | 6 M 55 | S 31 |

Delta T = 40.30 sec

Greg. Calendar

JUNE 1654 GC 00:00 UT

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|------|----------|-------------------|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|-----------------|----------------|--------|-------|---------------|----------------|------|
| M 1 | 16 38 22 | 10 Ⅱ 28'00 | 18 × 750 | 18 8 44 | 1840 | 25 Ⅱ 27 | 20) 45 | 20 Q 50 | 4°R 0 | 24°R55 | 14∏28 | 28°R12 | 29≈ 2 | 1 ∡ 37 | 6°R51 | M 1 |
| T 2 | 16 42 19 | 11°25'22 | 0 ප 46 | 19°17 | 2° 8 | 26° 7 | 20°52 | 20°54 | 3 る 58 | 24 × 753 | 14°29 | 28≈ 0 | 28°59 | 1°43 | 6 M .48 | T 2 |
| W 3 | 16 46 15 | 12°22'43 | 12°47 | 19°53 | 2°38 | 26°47 | 21° 0 | 20°58 | 3°56 | 24°51 | 14°31 | 27°51 | 28°55 | 1°50 | 6°45 | W 3 |
| T 4 | 16 50 12 | 13°20'03 | 24°54 | 20°34 | 3° 9 | 27°26 | 21° 7 | 21° 2 | 3°54 | 24°50 | 14°32 | 27°44 | 28°52 | 1°57 | 6°42 | T 4 |
| F 5 | 16 54 9 | 14°17'23 | 7 ≈ 10 | 21°19 | 3°41 | 28° 6 | 21°14 | 21° 7 | 3°51 | 24°48 | 14°33 | 27°40 | 28°49 | 2° 4 | 6°39 | F 5 |
| S 6 | 16 58 5 | 15°14'42 | 19°38 | 22° 7 | 4°15 | 28°46 | 21°20 | 21°11 | 3°49 | 24°47 | 14°35 | 27°38 | 28°46 | 2°10 | 6°36 | S 6 |
| S 7 | 17 2 2 | 16°12'01 | 2) 21 | 23° 0 | 4°50 | 29°25 | 21°27 | 21°16 | 3°47 | 24°45 | 14°36 | 27°D38 | 28°43 | 2°17 | 6°33 | S 7 |
| M 8 | 17 5 58 | 17° 9'19 | 15°25 | 23°56 | 5°26 | 0ණ 5 | 21°33 | 21°20 | 3°45 | 24°44 | 14°38 | 27°R38 | 28°39 | 2°24 | 6°31 | M 8 |
| T 9 | 17 9 55 | 18° 6'37 | 28°51 | 24°56 | 6° 4 | 0°44 | 21°40 | 21°25 | 3°42 | 24°42 | 14°39 | 27°38 | 28°36 | 2°31 | 6°28 | T 9 |
| W10 | 17 13 51 | 19° 3'54 | 12 ° 44 | 25°59 | 6°43 | 1°24 | 21°46 | 21°30 | 3°40 | 24°40 | 14°40 | 27°36 | 28°33 | 2°37 | 6°25 | W10 |
| T 11 | 17 17 48 | 20° 1'12 | 27° 3 | 27° 6 | 7°23 | 2° 3 | 21°52 | 21°35 | 3°38 | 24°39 | 14°42 | 27°32 | 28°30 | 2°44 | 6°23 | T 11 |
| F 12 | 17 21 44 | 20°58'29 | 11846 | 28°16 | 8° 3 | 2°43 | 21°58 | 21°40 | 3°35 | 24°37 | 14°43 | 27°25 | 28°27 | 2°51 | 6°20 | F 12 |
| S 13 | 17 25 41 | 21°55'45 | 26°49 | 29°30 | 8°45 | 3°22 | 22° 3 | 21°44 | 3°33 | 24°35 | 14°44 | 27°16 | 28°24 | 2°57 | 6°18 | S 13 |
| S 14 | 17 29 38 | 22°53'02 | 12 II 1 | 0 Ⅱ 47 | 9°28 | 4° 2 | 22° 9 | 21°50 | 3°30 | 24°34 | 14°46 | 27° 7 | 28°20 | 3° 4 | 6°16 | S 14 |
| M15 | 17 33 34 | 23°50'18 | 27°14 | 2° 8 | 10°12 | 4°41 | 22°14 | 21°55 | 3°28 | 24°32 | 14°47 | 26°58 | 28°17 | 3°11 | 6°14 | M15 |
| T 16 | 17 37 31 | 24°47'34 | 129516 | 3°32 | 10°56 | 5°21 | 22°19 | 22° 0 | 3°26 | 24°31 | 14°49 | 26°50 | 28°14 | 3°18 | 6°12 | T 16 |
| W17 | 17 41 27 | 25°44'49 | 26°58 | 4°59 | 11°42 | 6° 0 | 22°24 | 22° 5 | 3°23 | 24°29 | 14°50 | 26°45 | 28°11 | 3°24 | 6°10 | W17 |
| T 18 | 17 45 24 | 26°42'03 | 11Ω14 | 6°29 | 12°28 | 6°39 | 22°29 | 22°10 | 3°21 | 24°27 | 14°51 | 26°42 | 28° 8 | 3°31 | 6° 8 | T 18 |
| F 19 | 17 49 20 | 27°39'17 | 25° 2 | 8° 3 | 13°15 | 7°19 | 22°33 | 22°16 | 3°19 | 24°26 | 14°53 | 26°D41 | 28° 5 | 3°38 | 6° 6 | F 19 |
| S 20 | 17 53 17 | 28°36'30 | 8 Mg 22 | 9°39 | 14° 3 | 7°58 | 22°38 | 22°21 | 3°16 | 24°24 | 14°54 | 26°41 | 28° 1 | 3°45 | 6° 5 | S 20 |
| S 21 | 17 57 13 | 29°33'43 | 21°16 | 11°19 | 14°52 | 8°37 | 22°42 | 22°27 | 3°14 | 24°23 | 14°56 | 26°42 | 27°58 | 3°51 | 6° 3 | S 21 |
| M22 | 18 110 | 0930'55 | 3 ჲ 50 | 13° 2 | 15°41 | 9°16 | 22°46 | 22°33 | 3°11 | 24°21 | 14°57 | 26°R42 | 27°55 | 3°58 | 6° 2 | M22 |
| T 23 | 18 5 7 | 1°28'06 | 16° 6 | 14°48 | 16°31 | 9°56 | 22°50 | 22°38 | 3° 9 | 24°19 | 14°58 | 26°41 | 27°52 | 4° 5 | 6° 1 | T 23 |
| W24 | 18 9 3 | 2°25'17 | 28°10 | 16°37 | 17°22 | 10°35 | 22°54 | 22°44 | 3° 6 | 24°18 | 15° 0 | 26°38 | 27°49 | 4°11 | 5°59 | W24 |
| T 25 | 18 13 0 | 3°22'28 | 10 M 7 | 18°28 | 18°13 | 11°14 | 22°57 | 22°50 | 3° 4 | 24°16 | 15° 1 | 26°32 | 27°45 | 4°18 | 5°58 | T 25 |
| F 26 | 18 16 56 | 4°19'38 | 22° 0 | 20°23 | 19° 5 | 11°53 | 23° 1 | 22°56 | 3° 2 | 24°14 | 15° 2 | 26°25 | 27°42 | 4°25 | 5°57 | F 26 |
| S 27 | 18 20 53 | 5°16'49 | 3 ≯ 52 | 22°20 | 19°57 | 12°32 | 23° 4 | 23° 1 | 2°59 | 24°13 | 15° 4 | 26°16 | 27°39 | 4°32 | 5°56 | S 27 |
| S 28 | 18 24 49 | 6°13'59 | 15°46 | 24°19 | 20°50 | 13°11 | 23° 7 | 23° 7 | 2°57 | 24°11 | 15° 5 | 26° 7 | 27°36 | 4°38 | 5°56 | S 28 |
| M29 | 18 28 46 | 7°11'09 | 27°44 | 26°20 | 21°44 | 13°50 | 23°10 | 23°13 | 2°54 | 24°10 | 15° 6 | 25°58 | 27°33 | 4°45 | 5°55 | M29 |
| T 30 | 18 32 42 | 89 8'19 | 9 궁 47 | 28 Ⅱ 24 | 22 8 38 | 149529 | 23 米 12 | 23 N 20 | 2 る 52 | 24 ×7 8 | 15 II 8 | 25≈50 | 27≈30 | 4 ₹ 52 | 5 M 54 | T 30 |

Delta T = 40.24 sec

JULY 1654 GC 00:00 UT

| Day | Sid.t | \odot | D | ğ | Q. | ♂ | 4 | ħ |)f(| ¥ | Р | ß | Ω | Ç | Q, | Day |
|------|----------|------------------|----------------|----------------|----------------|-----------------------------------|----------------|----------------|---------------|----------------|----------------|--------|-------|---------------|---------------|------|
| W 1 | 18 36 39 | 995 5'29 | 21 궁 57 | 09329 | 23 8 33 | 1595 8 | 23) 15 | 23₽26 | 2°R49 | 24°R 7 | 15 I 9 | 25°R44 | 27≈26 | 4 ₹ 58 | 5°R54 | W 1 |
| T 2 | 18 40 36 | 10° 2'39 | 4≈15 | 2°36 | 24°28 | 15°47 | 23°17 | 23°32 | 2 ප 47 | 24 ×7 5 | 15°10 | 25≈39 | 27°23 | 5° 5 | 5 M 53 | T 2 |
| F 3 | 18 44 32 | 10°59'49 | 16°43 | 4°43 | 25°24 | 16°26 | 23°19 | 23°38 | 2°45 | 24° 4 | 15°11 | 25°37 | 27°20 | 5°12 | 5°53 | F 3 |
| S 4 | 18 48 29 | 11°57'00 | 29°23 | 6°52 | 26°20 | 17° 5 | 23°21 | 23°44 | 2°42 | 24° 2 | 15°13 | 25°D37 | 27°17 | 5°19 | 5°53 | S 4 |
| S 5 | 18 52 25 | 12°54'11 | 12) 16 | 9° 1 | 27°16 | 17°44 | 23°23 | 23°51 | 2°40 | 24° 1 | 15°14 | 25°38 | 27°14 | 5°25 | 5°D53 | S 5 |
| M 6 | 18 56 22 | 13°51'22 | 25°26 | 11°11 | 28°14 | 18°23 | 23°24 | 23°57 | 2°37 | 23°59 | 15°15 | 25°39 | 27°11 | 5°32 | 5°53 | M 6 |
| T 7 | 19 0 18 | 14°48'34 | 8 Ƴ 54 | 13°20 | 29°11 | 19° 2 | 23°26 | 24° 4 | 2°35 | 23°58 | 15°16 | 25°R40 | 27° 7 | 5°39 | 5°53 | T 7 |
| W 8 | 19 4 15 | 15°45'46 | 22°42 | 15°29 | 0П 9 | 19°41 | 23°27 | 24°10 | 2°33 | 23°56 | 15°18 | 25°40 | 27° 4 | 5°46 | 5°53 | W 8 |
| T 9 | 19 8 11 | 16°42'59 | 6 8 51 | 17°38 | 1° 7 | 20°20 | 23°28 | 24°17 | 2°30 | 23°55 | 15°19 | 25°39 | 27° 1 | 5°52 | 5°54 | T 9 |
| F 10 | 19 12 8 | 17°40'13 | 21°19 | 19°46 | 2° 6 | 20°58 | 23°28 | 24°23 | 2°28 | 23°53 | 15°20 | 25°35 | 26°58 | 5°59 | 5°54 | F 10 |
| S 11 | 19 16 5 | 18°37'27 | 6耳 2 | 21°53 | 3° 5 | 21°37 | 23°29 | 24°30 | 2°26 | 23°52 | 15°21 | 25°31 | 26°55 | 6° 6 | 5°55 | S 11 |
| S 12 | 19 20 1 | 19°34'43 | 20°56 | 23°59 | 4° 4 | 22°16 | 23°29 | 24°37 | 2°23 | 23°50 | 15°23 | 25°26 | 26°51 | 6°12 | 5°55 | S 12 |
| M13 | 19 23 58 | 20°31'58 | 5951 | 26° 4 | 5° 4 | 22°55 | 23°R29 | 24°43 | 2°21 | 23°49 | 15°24 | 25°21 | 26°48 | 6°19 | 5°56 | M13 |
| T 14 | 19 27 54 | 21°29'15 | 20°39 | 28° 7 | 6° 4 | 23°33 | 23°29 | 24°50 | 2°19 | 23°47 | 15°25 | 25°17 | 26°45 | 6°26 | 5°57 | T 14 |
| W15 | 19 31 51 | 22°26'31 | 5 Ω 12 | oΩ 9 | 7° 5 | 24°12 | 23°29 | 24°57 | 2°17 | 23°46 | 15°26 | 25°14 | 26°42 | 6°33 | 5°58 | W15 |
| T 16 | 19 35 47 | 23°23'48 | 19°25 | 2° 9 | 8° 5 | 24°51 | 23°28 | 25° 4 | 2°15 | 23°45 | 15°27 | 25°D12 | 26°39 | 6°39 | 5°59 | T 16 |
| F 17 | 19 39 44 | 24°21'06 | 3 m 13 | 4° 8 | 9° 6 | 25°30 | 23°28 | 25°11 | 2°12 | 23°43 | 15°28 | 25°13 | 26°36 | 6°46 | 6° 0 | F 17 |
| S 18 | 19 43 41 | 25°18'24 | 16°36 | 6° 5 | 10° 8 | 26° 8 | 23°27 | 25°18 | 2°10 | 23°42 | 15°29 | 25°14 | 26°32 | 6°53 | 6° 2 | S 18 |
| S 19 | 19 47 37 | 26°15'42 | 29°34 | 8° 0 | 11° 9 | 26°47 | 23°26 | 25°25 | 2° 8 | 23°41 | 15°31 | 25°15 | 26°29 | 6°59 | 6° 3 | S 19 |
| M20 | 19 51 34 | 27°13'00 | 12 ≏ 11 | 9°54 | 12°11 | 27°26 | 23°25 | 25°32 | 2° 6 | 23°39 | 15°32 | 25°17 | 26°26 | 7° 6 | 6° 5 | M20 |
| T 21 | 19 55 30 | 28°10'19 | 24°30 | 11°46 | 13°14 | 28° 4 | 23°23 | 25°39 | 2° 4 | 23°38 | 15°33 | 25°R17 | 26°23 | 7°13 | 6° 6 | T 21 |
| W22 | 19 59 27 | 29° 7'39 | 6 M .36 | 13°36 | 14°16 | 28°43 | 23°22 | 25°46 | 2° 2 | 23°37 | 15°34 | 25°17 | 26°20 | 7°20 | 6° 8 | W22 |
| | 20 3 23 | 0 Ω 4'59 | 18°34 | 15°25 | 15°19 | 29°21 | 23°20 | 25°53 | 2° 0 | 23°36 | 15°35 | 25°16 | 26°17 | 7°26 | 6°10 | T 23 |
| | 20 7 20 | 1° 2'19 | 0 ∡ 27 | 17°12 | 16°22 | 29°59 | 23°18 | 26° 0 | 1°58 | 23°34 | 15°36 | 25°14 | 26°13 | 7°33 | 6°12 | F 24 |
| S 25 | 20 11 16 | 1°59'41 | 12°20 | 18°57 | 17°25 | 0 Ω 38 | 23°15 | 26° 7 | 1°56 | 23°33 | 15°37 | 25°10 | 26°10 | 7°40 | 6°14 | S 25 |
| | 20 15 13 | 2°57'02 | 24°16 | 20°40 | 18°28 | 1°17 | 23°13 | 26°14 | 1°54 | 23°32 | 15°38 | 25° 7 | 26° 7 | 7°47 | 6°16 | S 26 |
| | 20 19 10 | 3°54'25 | 6 ප 19 | 22°22 | 19°32 | 1°56 | 23°10 | 26°21 | 1°52 | 23°31 | 15°39 | 25° 3 | 26° 4 | 7°53 | 6°18 | M27 |
| - | 20 23 6 | 4°51'48 | 18°31 | 24° 2 | 20°36 | 2°34 | 23° 8 | 26°29 | 1°50 | 23°30 | 15°40 | 25° 0 | 26° 1 | 8° 0 | 6°21 | T 28 |
| | 20 27 3 | 5°49'12 | 0≈53 | 25°41 | 21°40 | 3°12 | 23° 5 | 26°36 | 1°48 | 23°29 | 15°41 | 24°58 | 25°57 | 8° 7 | 6°23 | W29 |
| | 20 30 59 | 6°46'37 | 13°27 | 27°17 | 22°45 | 3°51 | 23° 2 | 26°43 | <u>1°46</u> | 23°28 | 15°42 | 24°57 | 25°54 | 8°13 | 6°26 | T 30 |
| F 31 | 20 34 56 | 7 Ω 44'03 | 26≈13 | 28 Ω 53 | 23 Ⅱ 49 | 4Ω 29 | 22 米 58 | 26 Ω 51 | 1 3 44 | 23 × 27 | 15 Ⅱ 43 | 24°D57 | 25≈51 | 8 ₹ 20 | 6 M 28 | F 31 |

Delta T = 40.18 sec Greg

Greg. Calendar

| AUCUCT 1654 CC | 20.00.11 | - |
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| AUGUST 1654 GC | 00:00 U | |

| Day | Sid.t | \odot |)) | φ | φ | o ⁷ | 4 | ħ |)ұ(| ¥ | 2 | ß | Ω | Ç | Š | Day |
|------|----------|------------------|----------------|---------------|--------|----------------|----------------|----------------|---------------|----------------|----------------|--------|-------|----------------|---------------|------|
| S 1 | 20 38 52 | 8 N 41'30 | 9 ∺ 12 | 0 m 26 | 24∏54 | 5 N 8 | 22°R55 | 26 Ω 58 | 1°R42 | 23°R26 | 15 Ⅱ 44 | 24≈57 | 25≈48 | 8 ₹ 27 | 6 M 31 | S 1 |
| S 2 | 20 42 49 | 9°38'59 | 22°24 | 1°58 | 25°59 | 5°46 | 22) 51 | 27° 5 | 1 ਰ 41 | 23 × 25 | 15°45 | 24°58 | 25°45 | 8°34 | 6°34 | S 2 |
| M 3 | 20 46 45 | 10°36'28 | 5 Υ 50 | 3°28 | 27° 5 | 6°25 | 22°47 | 27°13 | 1°39 | 23°24 | 15°46 | 24°59 | 25°42 | 8°40 | 6°37 | M 3 |
| T 4 | 20 50 42 | 11°33'59 | 19°29 | 4°56 | 28°10 | 7° 3 | 22°43 | 27°20 | 1°37 | 23°23 | 15°46 | 25° 0 | 25°38 | 8°47 | 6°40 | T 4 |
| W 5 | 20 54 39 | 12°31'31 | 3 8 22 | 6°23 | 29°16 | 7°41 | 22°39 | 27°28 | 1°36 | 23°22 | 15°47 | 25° 1 | 25°35 | 8°54 | 6°43 | W 5 |
| T 6 | 20 58 35 | 13°29'05 | 17°27 | 7°48 | 0ණ22 | 8°20 | 22°34 | 27°35 | 1°34 | 23°21 | 15°48 | 25°R 1 | 25°32 | 9° 0 | 6°46 | T 6 |
| F 7 | 21 2 32 | 14°26'40 | 1 Ⅱ 43 | 9°11 | 1°28 | 8°58 | 22°30 | 27°43 | 1°32 | 23°20 | 15°49 | 25° 0 | 25°29 | 9° 7 | 6°50 | F 7 |
| S 8 | 21 6 28 | 15°24'17 | 16° 7 | 10°33 | 2°34 | 9°37 | 22°25 | 27°50 | 1°31 | 23°19 | 15°50 | 25° 0 | 25°26 | 9°14 | 6°53 | S 8 |
| S 9 | 21 10 25 | 16°21'55 | 0937 | 11°53 | 3°40 | 10°15 | 22°20 | 27°58 | 1°29 | 23°18 | 15°50 | 24°59 | 25°23 | 9°21 | 6°57 | S 9 |
| M10 | 21 14 21 | 17°19'35 | 15° 6 | 13°11 | 4°47 | 10°53 | 22°15 | 28° 5 | 1°28 | 23°18 | 15°51 | 24°58 | 25°19 | 9°27 | 7° 0 | M10 |
| T 11 | 21 18 18 | 18°17'17 | 29°29 | 14°27 | 5°54 | 11°32 | 22°10 | 28°13 | 1°27 | 23°17 | 15°52 | 24°57 | 25°16 | 9°34 | 7° 4 | T 11 |
| W12 | 21 22 14 | 19°14'59 | 13 N 42 | 15°41 | 7° 1 | 12°10 | 22° 4 | 28°20 | 1°25 | 23°16 | 15°53 | 24°57 | 25°13 | 9°41 | 7° 8 | W12 |
| T 13 | 21 26 11 | 20°12'43 | 27°39 | 16°53 | 8° 8 | 12°48 | 21°59 | 28°28 | 1°24 | 23°15 | 15°53 | 24°D57 | 25°10 | 9°48 | 7°12 | T 13 |
| F 14 | 21 30 8 | 21°10'28 | 11 m 18 | 18° 3 | 9°15 | 13°27 | 21°53 | 28°35 | 1°23 | 23°15 | 15°54 | 24°57 | 25° 7 | 9°54 | 7°16 | F 14 |
| S 15 | 21 34 4 | 22° 8'15 | 24°36 | 19°10 | 10°22 | 14° 5 | 21°47 | 28°43 | 1°21 | 23°14 | 15°55 | 24°57 | 25° 3 | 10° 1 | 7°20 | S 15 |
| S 16 | 21 38 1 | 23° 6'03 | 7 ≏ 33 | 20°16 | 11°30 | 14°43 | 21°41 | 28°51 | 1°20 | 23°13 | 15°55 | 24°57 | 25° 0 | 10° 8 | 7°24 | S 16 |
| M17 | 21 41 57 | 24° 3'52 | 20°10 | 21°19 | 12°38 | 15°21 | 21°35 | 28°58 | 1°19 | 23°13 | 15°56 | 24°57 | 24°57 | 10°14 | 7°28 | M17 |
| T 18 | 21 45 54 | 25° 1'42 | 2 M .31 | 22°19 | 13°46 | 16° 0 | 21°29 | 29° 6 | 1°18 | 23°12 | 15°57 | 24°R57 | 24°54 | 10°21 | 7°33 | T 18 |
| W19 | 21 49 50 | 25°59'33 | 14°39 | 23°17 | 14°54 | 16°38 | 21°22 | 29°13 | 1°17 | 23°12 | 15°57 | 24°57 | 24°51 | 10°28 | 7°37 | W19 |
| T 20 | 21 53 47 | 26°57'26 | 26°37 | 24°12 | 16° 2 | 17°16 | 21°16 | 29°21 | 1°16 | 23°11 | 15°58 | 24°D57 | 24°48 | 10°35 | 7°42 | T 20 |
| F 21 | 21 57 43 | 27°55'20 | 8 × 31 | 25° 4 | 17°10 | 17°54 | 21° 9 | 29°29 | 1°15 | 23°11 | 15°58 | 24°57 | 24°44 | 10°41 | 7°46 | F 21 |
| S 22 | 22 1 40 | 28°53'16 | 20°24 | 25°53 | 18°19 | 18°33 | 21° 2 | 29°36 | 1°14 | 23°10 | 15°59 | 24°58 | 24°41 | 10°48 | 7°51 | S 22 |
| S 23 | 22 5 37 | 29°51'12 | 2 る 22 | 26°39 | 19°27 | 19°11 | 20°55 | 29°44 | 1°13 | 23°10 | 15°59 | 24°58 | 24°38 | 10°55 | 7°56 | S 23 |
| M24 | 22 9 33 | 0 m 49'10 | 14°29 | 27°21 | 20°36 | 19°49 | 20°48 | 29°51 | 1°12 | 23° 9 | 16° 0 | 24°59 | 24°35 | 11° 1 | 8° 1 | M24 |
| T 25 | 22 13 30 | 1°47'10 | 26°47 | 28° 0 | 21°45 | 20°27 | 20°41 | 29°59 | 1°11 | 23° 9 | 16° 0 | 24°59 | 24°32 | 11° 8 | 8° 5 | T 25 |
| W26 | 22 17 26 | 2°45'11 | 9≈20 | 28°34 | 22°54 | 21° 5 | 20°34 | 0 Mp 7 | 1°10 | 23° 9 | 16° 1 | 25° 0 | 24°28 | 11°15 | 8°10 | W26 |
| T 27 | 22 21 23 | 3°43'13 | 22° 9 | 29° 4 | 24° 3 | 21°43 | 20°27 | 0°14 | 1°10 | 23° 9 | 16° 1 | 25°R 0 | 24°25 | 11°22 | 8°16 | T 27 |
| F 28 | 22 25 19 | 4°41'17 | 5) 15 | 29°30 | 25°12 | 22°22 | 20°20 | 0°22 | 1° 9 | 23° 8 | 16° 2 | 25° 0 | 24°22 | 11°28 | 8°21 | F 28 |
| S 29 | 22 29 16 | 5°39'23 | 18°38 | 29°51 | 26°22 | 23° 0 | 20°12 | 0°29 | 1° 8 | 23° 8 | 16° 2 | 24°59 | 24°19 | 11°35 | 8°26 | S 29 |
| S 30 | 22 33 12 | 6°37'30 | 2 Υ 16 | 0요 7 | 27°31 | 23°38 | 20° 5 | 0°37 | 1° 8 | 23° 8 | 16° 2 | 24°58 | 24°16 | 11°42 | 8°31 | S 30 |
| M31 | 22 37 9 | 7 m 35'40 | 16 Y 7 | 0 ჲ 17 | 289541 | 24 Ω 16 | 19 米 57 | 0 m 45 | 1る 7 | 23 × 8 | 16耳 3 | 24≈57 | 24≈13 | 11 ~ 48 | 8 M 37 | M31 |

Delta T = 40.12 sec

SEPTEMBER 1654 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | P | ♂ | 4 | ħ |)∤(| 并 | В | P. | v | ţ | 0 پ | Day |
|--------------|----------------------|----------------------|-------------------------|----------------|----------------|------------------------|----------------|---------------|---------------|----------------|-----------------|----------------|----------------|-----------------|----------------|--------------|
| T 1 | 22 41 6 | 8 m/ 33'51 | 9 8 8 | 0°R22 | 29950 | 24⋒54 | 19°R49 | 0 m 52 | 1°R 7 | 23°R 8 | 16耳 3 | 24°R55 | 24≈ 9 | 11 × 755 | 8 M .42 | T 1 |
| W 2 | 22 45 2 | 9°32'04 | 14°16 | 0 ჲ 21 | 1 0 0 | 25°32 | 19 ∺ 42 | 1° 0 | 1පි 6 | 23 × 7 | 16° 3 | 24≈54 | 24° 6 | 12° 2 | 8°48 | W 2 |
| T 3 | 22 48 59 | 10°30'20 | 28°28 | 0°13 | 2°10 | 26°10 | 19°34 | 1° 7 | 1° 6 | 23° 7 | 16° 4 | 24°53 | 24° 3 | 12° 9 | 8°53 | T 3 |
| F 4 | 22 52 55 | 11°28'37 | 12 ∏ 42 | 29 m 59 | 3°21 | 26°48 | 19°26 | 1°15 | 1° 6 | 23°D 7 | 16° 4 | 24°D52 | 24° 0 | 12°15 | 8°59 | F 4 |
| S 5 | 22 56 52 | 12°26'57 | 26°54 | 29°39 | 4°31 | 27°26 | 19°18 | 1°22 | 1° 6 | 23° 7 | 16° 4 | 24°53 | 23°57 | 12°22 | 9° 5 | S 5 |
| S 6 | 23 0 48 | 13°25'19 | 1199 3 | 29°12 | 5°41 | 28° 5 | 19°10 | 1°30 | 1° 5 | 23° 7 | 16° 4 | 24°54 | 23°54 | 12°29 | 9°11 | S 6 |
| M 7 | 23 4 45 | 14°23'43 | 25° 6 | 28°38 | 6°52 | 28°43 | 19° 2 | 1°37 | 1° 5 | 23° 7 | 16° 5 | 24°55 | 23°50 | 12°35 | 9°17 | M 7 |
| T 8 | 23 8 41 | 15°22'09 | 9Ω 1 | 27°58 | 8° 2 | 29°21 | 18°54 | 1°45 | 1° 5 | 23° 8 | 16° 5 | 24°56 | 23°47 | 12°42 | 9°23 | T 8 |
| W 9 | 23 12 38 | 16°20'37 | 22°47 | 27°12 | 9°13 | 29°59 | 18°46 | 1°52 | 1° 5 | 23° 8 | 16° 5 | 24°R57 | 23°44 | 12°49 | 9°29 | W 9 |
| T 10 F 11 | 23 16 35 23 20 31 | 17°19'07 18°17'39 | 6 M)21 19°41 | 26°21 25°25 | 10°24 11°35 | 0 m y37 1°15 | 18°38 18°30 | 2° 0 2° 7 | 1°D 5 1° 5 | 23° 8 23° 8 | 16° 5 | 24°56 24°55 | 23°41 23°38 | 12°56 13° 2 | 9°35 9°41 | T 10 F 11 |
| S 12 | 23 24 28 | 18 17 39 19°16'13 | 19 41 2 Ω 46 | 23°23 24°25 | 11°33 | 1°53 | 18°22 | 2°15 | 1° 5 | 23° 8 | 16° 5 | 24°52 | 23°34 | 13° 2 | 9°47 | S 12 |
| | | | | | | | | | | | | | | | | |
| S 13 | 23 28 24 | 20°14'49 | 15°35 | 23°22 | 13°57 | 2°31 | 18°14 | 2°22 | 1° 5 | 23° 9 | 16° 5 | 24°48 | 23°31 | 13°16 | 9°53 | S 13 |
| M14 | 23 32 21 | 21°13'26 | 28° 8 | 22°18 | 15° 8 | 3° 9 | 18° 6 | 2°29 | 1° 5 1° 6 | 23° 9 | 16° 5 | 24°44 | 23°28 | 13°22 | 10° 0 | M14 |
| T 15 W16 | 23 36 17 23 40 14 | 22°12'06 23°10'47 | 10ML27 22°33 | 21°15 20°13 | 16°19 17°31 | 3°47 4°25 | 17°58 17°50 | 2°37 2°44 | 1° 6 1° 6 | 23° 9 23°10 | 16° 5 16°R 5 | 24°40 24°36 | 23°25 23°22 | 13°29 13°36 | 10° 6 10°13 | T 15 W16 |
| T 17 | 23 44 10 | 24° 9'30 | 4 × 731 | 19°14 | 18°42 | 5° 3 | 17°43 | 2°51 | 1° 6 | 23°10 | 16° 5 | 24°33 | 23°19 | 13°43 | 10°19 | T 17 |
| F 18 | 23 48 7 | 25° 8'15 | 16°24 | 18°21 | 19°54 | 5°41 | 17°35 | 2°59 | 1° 7 | 23°10 | 16° 5 | 24°31 | 23°15 | 13°49 | 10°26 | F 18 |
| S 19 | 23 52 3 | 26° 7'01 | 28°16 | 17°33 | 21° 6 | 6°19 | 17°27 | 3° 6 | 1° 7 | 23°11 | 16° 5 | 24°D31 | 23°12 | 13°56 | 10°33 | S 19 |
| S 20 | 23 56 0 | 27° 5'49 | 10 ට 13 | 16°53 | 22°17 | 6°57 | 17°19 | 3°13 | 1° 8 | 23°11 | 16° 5 | 24°32 | 23° 9 | 14° 3 | 10°39 | S 20 |
| M21 | 23 59 57 | 28° 4'39 | 22°19 | 16°22 | 23°29 | 7°35 | 17°11 | 3°20 | 1°8 | 23°12 | 16° 5 | 24°33 | 23° 6 | 14° 9 | 10°46 | M21 |
| T 22 | 0 3 53 | 29° 3'31 | 4≈40 | 16° 0 | 24°41 | 8°13 | 17° 4 | 3°27 | 1° 9 | 23°12 | 16° 5 | 24°35 | 23° 3 | 14°16 | 10°53 | T 22 |
| W23 | 0 7 50 | 0 ♀ 2'25 | 17°18 | 15°49 | 25°53 | 8°51 | 16°56 | 3°35 | 1° 9 | 23°13 | 16° 5 | 24°36 | 23° 0 | 14°23 | 11° 0 | W23 |
| T 24 | 0 11 46 | 1° 1'20 | 0 ∺ 17 | 15°D47 | 27° 5 | 9°29 | 16°48 | 3°42 | 1°10 | 23°14 | 16° 5 | 24°R36 | 22°56 | 14°30 | 11° 7 | T 24 |
| F 25 | 0 15 43 | 2° 0'17 | 13°39 | 15°55 | 28°18 | 10° 7 | 16°41 | 3°49 | 1°11 | 23°14 | 16° 5 | 24°34 | 22°53 | 14°36 | 11°14 | F 25 |
| S 26 | 0 19 39 | 2°59'16 | 27°23 | 16°14 | 29°30 | 10°45 | 16°34 | 3°56 | 1°12 | 23°15 | 16° 4 | 24°31 | 22°50 | 14°43 | 11°21 | S 26 |
| S 27 | 0 23 36 | 3°58'17 | 11 Y 28 | 16°43 | 0 m 42 | 11°23 | 16°26 | 4° 3 | 1°13 | 23°16 | 16° 4 | 24°26 | 22°47 | 14°50 | 11°28 | S 27 |
| M28 | 0 27 32 | 4°57'20 | 25°47 | 17°20 | 1°55 | 12° 1 | 16°19 | 4°10 | 1°13 | 23°17 | 16° 4 | 24°20 | 22°44 | 14°56 | 11°35 | M28 |
| T 29 | 0 31 29 | 5°56'25 | 10817 | 18° 7 | 3° 7 | 12°39 | 16°12 | 4°16 | 1°14 | 23°17 | 16° 4 | 24°14 | 22°40 | 15° 3 | 11°42 | T 29 |
| W30 | 0 35 26 | 6 ₽ 55'33 | 24849 | 19Mm, 2 | 4 Mp 20 | 13 m) 17 | 16 米 5 | 4 Mp 23 | 1ਰ15 | 23 × 18 | 16耳 3 | 24≈ 8 | 22≈37 | 15 ₹ 10 | 11 M 49 | W30 |

Delta T = 40.06 sec

Greg. Calendar

OCTOBER 1654 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)Å(| 卉 | В | ₽. | ß | Ç | ę, | Day |
|------|---------|------------------|----------------|---------------|----------------|----------------|----------------|---------------|---------------|-----------------|----------------|----------------|-------|-----------------|-----------------|------|
| T 1 | 0 39 22 | 7 £ 54'43 | 9 耳 19 | 20 Mp 4 | 5 m 33 | 13 m 55 | 15°R58 | 4Mp30 | 1 ප 16 | 23 х 19 | 16°R 3 | 24°R 3 | 22≈34 | 15 ,7 17 | 11 M .56 | T 1 |
| F 2 | 0 43 19 | 8°53'56 | 23°42 | 21°13 | 6°45 | 14°33 | 15 米 51 | 4°37 | 1°18 | 23°20 | 16 II 3 | 24≈ 0 | 22°31 | 15°23 | 12° 4 | F 2 |
| S 3 | 0 47 15 | 9°53'10 | 7 9 53 | 22°27 | 7°58 | 15°11 | 15°45 | 4°44 | 1°19 | 23°21 | 16° 2 | 23°D59 | 22°28 | 15°30 | 12°11 | S 3 |
| S 4 | 0 51 12 | 10°52'27 | 21°52 | 23°47 | 9°11 | 15°49 | 15°38 | 4°50 | 1°20 | 23°22 | 16° 2 | 23°59 | 22°25 | 15°37 | 12°18 | S 4 |
| M 5 | 0 55 8 | 11°51'47 | 5 Ω 37 | 25°11 | 10°24 | 16°27 | 15°32 | 4°57 | 1°21 | 23°23 | 16° 1 | 24° 0 | 22°21 | 15°43 | 12°26 | M 5 |
| T 6 | 0 59 5 | 12°51'09 | 19°11 | 26°40 | 11°37 | 17° 5 | 15°26 | 5° 3 | 1°22 | 23°24 | 16° 1 | 24°R 1 | 22°18 | 15°50 | 12°33 | T 6 |
| W 7 | 1 3 1 | 13°50'32 | 2 Mp 32 | 28°11 | 12°51 | 17°43 | 15°19 | 5°10 | 1°24 | 23°25 | 16° 1 | 24° 1 | 22°15 | 15°57 | 12°41 | W 7 |
| T 8 | 1 6 58 | 14°49'59 | 15°41 | 29°45 | 14° 4 | 18°21 | 15°13 | 5°16 | 1°25 | 23°26 | 16° 0 | 23°59 | 22°12 | 16° 4 | 12°48 | T 8 |
| F 9 | 1 10 55 | 15°49'27 | 28°39 | 1 ≏ 21 | 15°17 | 18°59 | 15° 8 | 5°23 | 1°27 | 23°27 | 16° 0 | 23°54 | 22° 9 | 16°10 | 12°56 | F 9 |
| S 10 | 1 14 51 | 16°48'57 | 11 ≏ 25 | 2°59 | 16°30 | 19°37 | 15° 2 | 5°29 | 1°28 | 23°28 | 15°59 | 23°47 | 22° 5 | 16°17 | 13° 3 | S 10 |
| S 11 | 1 18 48 | 17°48'30 | 24° 0 | 4°39 | 17°44 | 20°15 | 14°56 | 5°36 | 1°30 | 23°29 | 15°59 | 23°38 | 22° 2 | 16°24 | 13°11 | S 11 |
| M12 | 1 22 44 | 18°48'05 | 6ML24 | 6°19 | 18°57 | 20°53 | 14°51 | 5°42 | 1°31 | 23°30 | 15°58 | 23°28 | 21°59 | 16°30 | 13°19 | M12 |
| T 13 | 1 26 41 | 19°47'41 | 18°36 | 8° 0 | 20°11 | 21°31 | 14°46 | 5°48 | 1°33 | 23°32 | 15°57 | 23°17 | 21°56 | 16°37 | 13°26 | T 13 |
| W14 | 1 30 37 | 20°47'20 | 0 ₮ 39 | 9°42 | 21°25 | 22° 9 | 14°41 | 5°54 | 1°35 | 23°33 | 15°57 | 23° 6 | 21°53 | 16°44 | 13°34 | W14 |
| T 15 | 1 34 34 | 21°47'00 | 12°34 | 11°24 | 22°38 | 22°47 | 14°36 | 6° 0 | 1°36 | 23°34 | 15°56 | 22°58 | 21°50 | 16°51 | 13°42 | T 15 |
| F 16 | 1 38 30 | 22°46'42 | 24°25 | 13° 6 | 23°52 | 23°25 | 14°31 | 6° 6 | 1°38 | 23°35 | 15°56 | 22°51 | 21°46 | 16°57 | 13°50 | F 16 |
| S 17 | 1 42 27 | 23°46'26 | 6 ප 15 | 14°49 | 25° 6 | 24° 2 | 14°27 | 6°12 | 1°40 | 23°37 | 15°55 | 22°47 | 21°43 | 17° 4 | 13°58 | S 17 |
| S 18 | 1 46 24 | 24°46'12 | 18° 9 | 16°31 | 26°20 | 24°40 | 14°22 | 6°18 | 1°42 | 23°38 | 15°54 | 22°46 | 21°40 | 17°11 | 14° 5 | S 18 |
| M19 | 1 50 20 | 25°45'59 | 0≈12 | 18°13 | 27°34 | 25°18 | 14°18 | 6°24 | 1°44 | 23°40 | 15°54 | 22°D45 | 21°37 | 17°17 | 14°13 | M19 |
| T 20 | 1 54 17 | 26°45'49 | 12°29 | 19°55 | 28°47 | 25°56 | 14°14 | 6°30 | 1°46 | 23°41 | 15°53 | 22°46 | 21°34 | 17°24 | 14°21 | T 20 |
| W21 | 1 58 13 | 27°45'39 | 25° 5 | 21°36 | 0요 1 | 26°34 | 14°10 | 6°36 | 1°48 | 23°42 | 15°52 | 22°R46 | 21°31 | 17°31 | 14°29 | W21 |
| T 22 | 2 2 10 | 28°45'32 | 8) 6 | 23°17 | 1°15 | 27°12 | 14° 7 | 6°41 | 1°50 | 23°44 | 15°52 | 22°45 | 21°27 | 17°37 | 14°37 | T 22 |
| F 23 | 2 6 6 | 29°45'26 | 21°33 | 24°58 | 2°30 | 27°50 | 14° 3 | 6°47 | 1°52 | 23°45 | 15°51 | 22°42 | 21°24 | 17°44 | 14°45 | F 23 |
| S 24 | 2 10 3 | 0M45'22 | 5 Υ 28 | 26°38 | 3°44 | 28°28 | 14° 0 | 6°52 | 1°54 | 23°47 | 15°50 | 22°36 | 21°21 | 17°51 | 14°53 | S 24 |
| S 25 | 2 13 59 | 1°45'19 | 19°50 | 28°18 | 4°58 | 29° 6 | 13°57 | 6°58 | 1°56 | 23°48 | 15°49 | 22°28 | 21°18 | 17°58 | 15° 1 | S 25 |
| M26 | 2 17 56 | 2°45'19 | 4 8 32 | 29°58 | 6°12 | 29°44 | 13°54 | 7° 3 | 1°58 | 23°50 | 15°48 | 22°18 | 21°15 | 18° 4 | 15° 9 | M26 |
| T 27 | 2 21 53 | 3°45'20 | 19°28 | 1 M 37 | 7°26 | 0 ჲ 21 | 13°51 | 7° 8 | 2° 1 | 23°52 | 15°48 | 22° 7 | 21°11 | 18°11 | 15°17 | T 27 |
| W28 | 2 25 49 | 4°45'24 | 4∏28 | 3°15 | 8°41 | 0°59 | 13°49 | 7°14 | 2° 3 | 23°53 | 15°47 | 21°56 | 21° 8 | 18°18 | 15°25 | W28 |
| T 29 | 2 29 46 | 5°45'29 | 19°22 | 4°53 | 9°55 | 1°37 | 13°47 | 7°19 | 2° 5 | 23°55 | 15°46 | 21°48 | 21° 5 | 18°24 | 15°33 | T 29 |
| F 30 | 2 33 42 | 6°45'37 | 495 4 | 6°31 | 11°10 | 2°15 | 13°45 | 7°24 | 2° 8 | 23°56 | 15°45 | 21°42 | 21° 2 | 18°31 | 15°41 | F 30 |
| S 31 | 2 37 39 | 7 M 45'47 | 18926 | 8 M 8 | 12 ≏ 24 | 2 ₾ 53 | 13 ∺ 43 | 7 ™ 29 | 2 ට 10 | 23 × 758 | 15 Ⅱ 44 | 21 ≈ 38 | 20≈59 | 18 ∡ 38 | 15 M 49 | S 31 |

Delta T = 40.01 sec

NOVEMBER 1654 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)ţ(| 并 | Р | ß | Ω | Ç | Š | Day |
|------|---------|------------------|-----------------|-----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|--------|----------------|-----------------|----------------|------|
| S 1 | 2 41 35 | 8M45'59 | 2 Ω 28 | 9 M .45 | 13 ₾ 39 | 3 ₾ 31 | 13°R41 | 7 m 34 | 2 る 12 | 24 × 0 | 15°R43 | 21°R37 | 20≈56 | 18 ∡ ³45 | 15 M 57 | S 1 |
| M 2 | 2 45 32 | 9°46'13 | 16° 9 | 11°22 | 14°53 | 4° 9 | 13 米 40 | 7°39 | 2°15 | 24° 2 | 15 Ⅱ 42 | 21≈37 | 20°52 | 18°51 | 16° 5 | M 2 |
| T 3 | 2 49 28 | 10°46'29 | 29°31 | 12°58 | 16° 8 | 4°47 | 13°38 | 7°44 | 2°17 | 24° 3 | 15°42 | 21°37 | 20°49 | 18°58 | 16°13 | T 3 |
| W 4 | 2 53 25 | 11°46'46 | 12 M y36 | 14°33 | 17°22 | 5°25 | 13°37 | 7°48 | 2°20 | 24° 5 | 15°41 | 21°35 | 20°46 | 19° 5 | 16°21 | W 4 |
| T 5 | 2 57 22 | 12°47'06 | 25°27 | 16° 9 | 18°37 | 6° 2 | 13°37 | 7°53 | 2°23 | 24° 7 | 15°40 | 21°31 | 20°43 | 19°11 | 16°29 | T 5 |
| F 6 | 3 1 18 | 13°47'28 | 8 亞 6 | 17°44 | 19°52 | 6°40 | 13°36 | 7°57 | 2°25 | 24° 9 | 15°39 | 21°24 | 20°40 | 19°18 | 16°37 | F 6 |
| S 7 | 3 5 15 | 14°47'52 | 20°35 | 19°18 | 21° 6 | 7°18 | 13°35 | 8° 2 | 2°28 | 24°11 | 15°38 | 21°15 | 20°37 | 19°25 | 16°45 | S 7 |
| S 8 | 3 9 11 | 15°48'17 | 2 M 54 | 20°53 | 22°21 | 7°56 | 13°35 | 8° 6 | 2°31 | 24°12 | 15°37 | 21° 2 | 20°33 | 19°32 | 16°53 | S 8 |
| M 9 | 3 13 8 | 16°48'44 | 15° 6 | 22°27 | 23°36 | 8°34 | 13°D35 | 8°10 | 2°33 | 24°14 | 15°36 | 20°48 | 20°30 | 19°38 | 17° 2 | M 9 |
| T 10 | 3 17 4 | 17°49'13 | 27°10 | 24° 0 | 24°51 | 9°12 | 13°35 | 8°15 | 2°36 | 24°16 | 15°35 | 20°33 | 20°27 | 19°45 | 17°10 | T 10 |
| W11 | 3 21 1 | 18°49'44 | 9 √ 7 | 25°34 | 26° 6 | 9°50 | 13°36 | 8°19 | 2°39 | 24°18 | 15°34 | 20°18 | 20°24 | 19°52 | 17°18 | W11 |
| T 12 | 3 24 57 | 19°50'16 | 20°59 | 27° 7 | 27°21 | 10°28 | 13°36 | 8°23 | 2°42 | 24°20 | 15°33 | 20° 6 | 20°21 | 19°58 | 17°26 | T 12 |
| F 13 | 3 28 54 | 20°50'49 | 2 ප් 48 | 28°40 | 28°36 | 11° 5 | 13°37 | 8°27 | 2°45 | 24°22 | 15°32 | 19°56 | 20°17 | 20° 5 | 17°34 | F 13 |
| S 14 | 3 32 51 | 21°51'24 | 14°37 | 0 才 13 | 29°50 | 11°43 | 13°38 | 8°30 | 2°48 | 24°24 | 15°31 | 19°49 | 20°14 | 20°12 | 17°42 | S 14 |
| S 15 | 3 36 47 | 22°52'00 | 26°29 | 1°46 | 1 M 5 | 12°21 | 13°40 | 8°34 | 2°51 | 24°26 | 15°30 | 19°45 | 20°11 | 20°18 | 17°50 | S 15 |
| M16 | 3 40 44 | 23°52'38 | 8≈29 | 3°18 | 2°20 | 12°59 | 13°41 | 8°38 | 2°53 | 24°28 | 15°29 | 19°44 | 20° 8 | 20°25 | 17°58 | M16 |
| T 17 | 3 44 40 | 24°53'16 | 20°42 | 4°50 | 3°35 | 13°37 | 13°43 | 8°41 | 2°56 | 24°30 | 15°27 | 19°43 | 20° 5 | 20°32 | 18° 6 | T 17 |
| W18 | 3 48 37 | 25°53'56 | 3): 13 | 6°22 | 4°50 | 14°15 | 13°45 | 8°45 | 3° 0 | 24°32 | 15°26 | 19°43 | 20° 2 | 20°39 | 18°14 | W18 |
| T 19 | 3 52 33 | 26°54'36 | 16° 7 | 7°54 | 6° 6 | 14°52 | 13°47 | 8°48 | 3° 3 | 24°34 | 15°25 | 19°42 | 19°58 | 20°45 | 18°22 | T 19 |
| F 20 | 3 56 30 | 27°55'18 | 29°30 | 9°26 | 7°21 | 15°30 | 13°49 | 8°51 | 3° 6 | 24°36 | 15°24 | 19°39 | 19°55 | 20°52 | 18°30 | F 20 |
| S 21 | 4 0 26 | 28°56'01 | 13 Y 22 | 10°57 | 8°36 | 16° 8 | 13°51 | 8°55 | 3° 9 | 24°38 | 15°23 | 19°33 | 19°52 | 20°59 | 18°38 | S 21 |
| S 22 | 4 4 23 | 29°56'45 | 27°45 | 12°28 | 9°51 | 16°46 | 13°54 | 8°58 | 3°12 | 24°40 | 15°22 | 19°25 | 19°49 | 21° 5 | 18°46 | S 22 |
| M23 | 4 8 20 | 0 ₮ 57'30 | 12 8 35 | 13°59 | 11° 6 | 17°23 | 13°57 | 9° 1 | 3°15 | 24°42 | 15°21 | 19°14 | 19°46 | 21°12 | 18°54 | M23 |
| T 24 | 4 12 16 | 1°58'16 | 27°43 | 15°30 | 12°21 | 18° 1 | 14° 0 | 9° 3 | 3°18 | 24°45 | 15°20 | 19° 3 | 19°43 | 21°19 | 19° 2 | T 24 |
| W25 | 4 16 13 | 2°59'04 | 13 I 1 | 17° 0 | 13°36 | 18°39 | 14° 3 | 9° 6 | 3°21 | 24°47 | 15°19 | 18°52 | 19°39 | 21°25 | 19°10 | W25 |
| T 26 | 4 20 9 | 3°59'53 | 28°16 | 18°30 | 14°51 | 19°17 | 14° 7 | 9° 9 | 3°25 | 24°49 | 15°17 | 18°42 | 19°36 | 21°32 | 19°18 | T 26 |
| F 27 | 4 24 6 | 5° 0'43 | 139518 | 20° 0 | 16° 7 | 19°55 | 14°10 | 9°11 | 3°28 | 24°51 | 15°16 | 18°36 | 19°33 | 21°39 | 19°26 | F 27 |
| S 28 | 4 28 2 | 6° 1'34 | 27°59 | 21°30 | 17°22 | 20°32 | 14°14 | 9°14 | 3°31 | 24°53 | 15°15 | 18°32 | 19°30 | 21°46 | 19°34 | S 28 |
| S 29 | 4 31 59 | 7° 2'27 | 12 Ω 14 | 22°58 | 18°37 | 21°10 | 14°18 | 9°16 | 3°34 | 24°55 | 15°14 | 18°30 | 19°27 | 21°52 | 19°41 | S 29 |
| M30 | 4 35 55 | 8 ∡ 3'21 | 26⋒ 3 | 24 × 127 | 19 M 52 | 21 ≏ 48 | 14 米 22 | 9 m /19 | 3 る 38 | 24 ৴ 58 | 15 Ⅱ 13 | 18°D30 | 19 ≈ 23 | 21 × 759 | 19 M 49 | M30 |

Delta T = 39.95 sec

Greg. Calendar

| DECEMBER 1654 GC | 00:00 UT |
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| DELEMBER IDSA GL | 00.00 111 |
| | |

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)f(| ¥ | В | U | v | Ç | Ŷ, | Day |
|--------------|--------------------|----------------------|------------------------|------------------------|----------------|-----------------|----------------|---------------|----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|--------------|
| T 1 | 4 39 52 | 9 % 4'17 | 9 m ,27 | 25 × 755 | 21 M 8 | 22 ≏ 26 | 14 米 27 | 9 m 21 | 3 ප් 41 | 25 ×7 0 | 15°R12 | 18°R31 | 19≈20 | 22 x 6 | 19 M 57 | T 1 |
| W 2 | 4 43 49 | 10° 5'13 | 22°29 | 27°21 | 22°23 | 23° 3 | 14°31 | 9°23 | 3°44 | 25° 2 | 15 I I11 | 18≈30 | 19°17 | 22°12 | 20° 5 | W 2 |
| T 3 F 4 | 4 47 45 4 51 42 | 11° 6'11 12° 7'10 | 5 ≙ 12 17°40 | 28°48 0 る 13 | 23°38 24°53 | 23°41 24°19 | 14°36 14°41 | 9°25 9°26 | 3°48 3°51 | 25° 4 25° 6 | 15° 9 15° 8 | 18°27 18°22 | 19°14 19°11 | 22°19 22°26 | 20°13 20°20 | T 3 F 4 |
| S 5 | 4 51 42 | 12 / 10 13° 8'11 | 29°56 | 1°37 | 24° 33 | 24°19 24°57 | 14 41 14°46 | 9°28 | 3°55 | 25° 9 | 15° 7 | 18°14 | 19 11 19° 8 | 22°32 | 20°28 | S 5 |
| S 6 | 4 59 35 | 14° 9'12 | 12 M 4 | 2°59 | 27°24 | 25°34 | 14°51 | 9°30 | 3°58 | 25°11 | 15° 6 | 18° 3 | 19° 4 | 22°39 | 20°36 | S 6 |
| M 7 | 5 3 31 | 15°10'14 | 24° 5 | 4°20 | 28°39 | 26°12 | 14°57 | 9°31 | 4° 2 | 25°13 | 15° 5 | 17°51 | 19° 1 | 22°46 | 20°43 | M 7 |
| T 8 | 5 7 28 | 16°11'18 | 6 ₹ 1 | 5°39 | 29°55 | 26°50 | 15° 3 | 9°33 | 4° 5 | 25°15 | 15° 4 | 17°38 | 18°58 | 22°53 | 20°51 | T 8 |
| W 9 | 5 11 25 | 17°12'22 | 17°54 | 6°56 | 1 才 10 | 27°27 | 15° 9 | 9°34 | 4° 8 | 25°18 | 15° 2 | 17°26 | 18°55 | 22°59 | 20°58 | W 9 |
| T 10 | 5 15 21 | 18°13'27 | 29°44 | 8°10 | 2°26 | 28° 5 | 15°15 | 9°35 | 4°12 | 25°20 | 15° 1 | 17°15 | 18°52 | 23° 6 | 21° 6 | T 10 |
| F 11 | 5 19 18 | 19°14'32 | 11 중 34 | 9°21 | 3°41 | 28°43 | 15°21 | 9°36 | 4°15 | 25°22 | 15° 0 | 17° 7 | 18°49 | 23°13 | 21°13 | F 11 |
| S 12 | 5 23 14 | 20°15'39 | 23°25 | 10°28 | 4°56 | 29°20 | 15°27 | 9°37 | 4°19 | 25°24 | 14°59 | 17° 1 | 18°45 | 23°19 | 21°21 | S 12 |
| S 13 | 5 27 11 | 21°16'45 | 5≈20 | 11°31 | 6°12 | 29°58 | 15°34 | 9°38 | 4°22 | 25°27 | 14°58 | 16°58 | 18°42 | 23°26 | 21°28 | S 13 |
| M14 | 5 31 7 | 22°17'52 | 17°22 | 12°30 | 7°27 | 0M36 | 15°40 | 9°39 | 4°26 | 25°29 | 14°57 | 16°D57 | 18°39 | 23°33 | 21°35 | M14 |
| T 15 W16 | 5 35 4 5 39 0 | 23°18'59 24°20'07 | 29°36 12) 5 | 13°23 14°10 | 8°43 9°58 | 1°13 1°51 | 15°47 15°54 | 9°39 9°40 | 4°30 4°33 | 25°31 25°33 | 14°55 14°54 | 16°58 16°59 | 18°36 18°33 | 23°40 23°46 | 21°43 21°50 | T 15 W16 |
| T 17 | 5 42 57 | 25°21'14 | 12π 3 24°54 | 14°10 | 11°13 | 2°28 | 15°54 16° 2 | 9°40 | 4°33 | 25°36 | 14°54 | 16°S9 | 18°33 | 23°53 | 21°57 | T 17 |
| F 18 | 5 46 54 | 26°22'22 | 8 Υ 8 | 15°22 | 12°29 | 3° 6 | 16° 9 | 9°40 | 4°40 | 25°38 | 14°52 | 16°59 | 18°26 | 24° 0 | 22° 4 | F 18 |
| S 19 | 5 50 50 | 27°23'30 | 21°50 | 15°45 | 13°44 | 3°44 | 16°17 | 9°41 | 4°44 | 25°40 | 14°51 | 16°56 | 18°23 | 24° 6 | 22°11 | S 19 |
| S 20 | 5 54 47 | 28°24'38 | 6 ප 1 | 15°58 | 15° 0 | 4°21 | 16°24 | 9°R41 | 4°47 | 25°43 | 14°50 | 16°51 | 18°20 | 24°13 | 22°18 | S 20 |
| M21 | 5 58 43 | 29°25'46 | 20°39 | 16°R 1 | 16°15 | 4°59 | 16°32 | 9°41 | 4°51 | 25°45 | 14°49 | 16°45 | 18°17 | 24°20 | 22°26 | M21 |
| T 22 | 6 2 40 | 0 궁 26'54 | 5 Ⅱ 41 | 15°52 | 17°30 | 5°36 | 16°40 | 9°40 | 4°55 | 25°47 | 14°48 | 16°37 | 18°14 | 24°26 | 22°32 | T 22 |
| W23 | 6 6 36 | 1°28'02 | 20°57 | 15°32 | 18°46 | 6°14 | 16°48 | 9°40 | 4°58 | 25°49 | 14°46 | 16°30 | 18°10 | 24°33 | 22°39 | W23 |
| T 24 | 6 10 33 | 2°29'11 | 69616 | 14°59 | 20° 1 21°17 | 6°51 | 16°56 17° 5 | 9°40 9°39 | 5° 2 5° 5 | 25°52 25°54 | 14°45 | 16°24 16°20 | 18° 7 | 24°40 24°46 | 22°46 22°53 | T 24 F 25 |
| F 25 S 26 | 6 14 29 6 18 26 | 3°30'20 4°31'29 | 21°28 6 Ω 22 | 14°16 13°21 | 21°17 22°32 | 7°29 8° 6 | 17° 3 | 9°39 | 5° 5 5° 9 | 25°56 | 14°44 14°43 | 16°20 | 18° 4 18° 1 | 24°46 24°53 | 22°53 23° 0 | S 26 |
| | | | | | | | | | | | | | | | | 1 |
| S 27 M28 | 6 22 23 6 26 19 | 5°32'38 6°33'47 | 20°53 4 m 56 | 12°17 11° 5 | 23°47 25° 3 | 8°44 9°21 | 17°22 17°31 | 9°38 9°37 | 5°12 5°16 | 25°58 26° 1 | 14°42 14°41 | 16°D17 16°18 | 17°58 17°55 | 25° 0 25° 7 | 23° 6 23°13 | S 27 M28 |
| T 29 | 6 30 16 | 7°34'57 | 411/30 18°31 | 9°47 | 25°18 | 9°58 | 17°40 | 9°36 | 5°20 | 26° 3 | 14°40 | 16°20 | 17°51 | 25°13 | 23°20 | T 29 |
| W30 | 6 34 12 | 8°36'06 | 1 <u>₽</u> 39 | 8°27 | 27°34 | 10°36 | 17°49 | 9°35 | 5°23 | 26° 5 | 14°39 | 16°21 | 17°48 | 25°20 | 23°26 | W30 |
| T 31 | 6 38 9 | 9 ප් 37'17 | 14 ≏ 25 | 7පි 6 | 28 × 49 | 11 M .13 | 17 ∺ 58 | 9 m 34 | 5 ප් 27 | 26 ₹ 7 | 14Ⅲ38 | 16°R21 | 17≈45 | 25 × 27 | 23M33 | T 31 |

Delta T = 39.89 sec

JANUARY 1655 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)Å(| ¥ | В | ß | v | Ç | ę, | Day |
|-------------|--------------------|----------------------|------------------------|-----------------------|----------------|----------------|-------------------|---------------|---------------|----------------|-----------------|----------------|----------------|-----------------|-----------------|-------------|
| F 1 | 6 42 5 | 10 ට 38'27 | 26 ₽ 52 | 5°R47 | 0ට 5 | 11 M 51 | 18 ∺ 8 | 9°R33 | 5 云 30 | 26 × 10 | 14°R37 | 16°R20 | 17≈42 | 25 × 33 | 23 M 39 | F 1 |
| S 2 | 6 46 2 | 11°39'37 | 9 M 4 | 4 궁 33 | 1°20 | 12°28 | 18°17 | 9 m 31 | 5°34 | 26°12 | 14 II 36 | 16≈16 | 17°39 | 25°40 | 23°45 | S 2 |
| S 3 | 6 49 58 | 12°40'48 | 21° 6 | 3°25 | 2°35 | 13° 5 | 18°27 | 9°30 | 5°38 | 26°14 | 14°35 | 16°12 | 17°35 | 25°47 | 23°52 | S 3 |
| M 4 | 6 53 55 | 13°41'58 | 3 ∡ 1 | 2°25 | 3°51 | 13°43 | 18°37 | 9°28 | 5°41 | 26°16 | 14°34 | 16° 6 | 17°32 | 25°53 | 23°58 | M 4 |
| T 5 | 6 57 52 | 14°43'09 | 14°52 | 1°35 | 5° 6 | 14°20 | 18°47 | 9°27 | 5°45 | 26°18 | 14°33 | 16° 0 | 17°29 | 26° 0 | 24° 4 | T 5 |
| W 6 | 7 1 48 | 15°44'19 | 26°42 | 0°54 | 6°22 | 14°57 | 18°57 | 9°25 | 5°48 | 26°20 | 14°32 | 15°54 | 17°26 | 26° 7 | 24°10 | W 6 |
| T 7 F 8 | 7 5 45 7 9 41 | 16°45'29 17°46'39 | 8 る 32 20°26 | 0°23 0°2 | 7°37 8°53 | 15°35 16°12 | 19° 7 19°17 | 9°23 9°21 | 5°52 5°55 | 26°23 26°25 | 14°31 14°30 | 15°49 15°45 | 17°23 17°20 | 26°14 26°20 | 24°16 24°22 | T 7 F 8 |
| F 8 | 7 13 38 | 17°46'39 18°47'49 | 20°26 2 ≈ 24 | 29 % 50 | 10° 8 | 16°12 16°49 | 19°17 19°28 | 9°21 9°19 | 5°59 | 26°23 | 14°30 14°29 | 15°43 | 17°20 | 26°27 | 24°22 24°28 | F 8 |
| | | | | | - | | | | | | | | | | | |
| S 10 | 7 17 34 | 19°48'57 | 14°28 | 29°D47 | 11°23 | 17°27 18° 4 | 19°38 | 9°17 | 6° 2 | 26°29 | 14°28 | 15°D42 | 17°13 | 26°34 | 24°33 | S 10 |
| M11 T 12 | 7 21 31 7 25 28 | 20°50'06 21°51'13 | 26°41 9 ₩ 4 | 29°52 0 る 6 | 12°39 13°54 | 18° 4 18°41 | 19°49 20° 0 | 9°14 9°12 | 6° 6 6° 9 | 26°31 26°33 | 14°27 14°26 | 15°42 15°44 | 17°10 17° 7 | 26°40 26°47 | 24°39 24°45 | M11 T 12 |
| W13 | 7 29 24 | 21 31 13 22°52'20 | 21°40 | 0°26 | 15°10 | 18 41 19°18 | 20°10 | 9°12 | 6°13 | 26°35 | 14°25 | 15°45 | 17° 4 | 26°54 | 24°43 24°50 | W13 |
| T 14 | 7 33 21 | 23°53'26 | 4 Υ 33 | 0°53 | 16°25 | 19°55 | 20°21 | 9° 7 | 6°16 | 26°37 | 14°24 | 15°47 | 17° 1 | 20° 34 | 24°56 | T 14 |
| F 15 | 7 37 17 | 24°54'31 | 17°45 | 1°26 | 17°40 | 20°32 | 20°32 | 9° 4 | 6°20 | 26°40 | 14°23 | 15°48 | 16°57 | 27° 7 | 25° 1 | F 15 |
| S 16 | 7 41 14 | 25°55'35 | 1819 | 2° 4 | 18°56 | 21° 9 | 20°44 | 9° 1 | 6°23 | 26°42 | 14°23 | 15°R48 | 16°54 | 27°14 | 25° 6 | S 16 |
| S 17 | 7 45 10 | 26°56'38 | 15°17 | 2°47 | 20°11 | 21°46 | 20°55 | 8°59 | 6°27 | 26°44 | 14°22 | 15°47 | 16°51 | 27°20 | 25°12 | S 17 |
| M18 | 7 49 7 | 27°57'40 | 29°37 | 3°34 | 21°27 | 22°23 | 21° 6 | 8°56 | 6°30 | 26°46 | 14°21 | 15°45 | 16°48 | 27°27 | 25°17 | M18 |
| T 19 | 7 53 3 | 28°58'41 | 14 Ⅲ 17 | 4°26 | 22°42 | 23° 0 | 21°18 | 8°53 | 6°34 | 26°48 | 14°20 | 15°43 | 16°45 | 27°34 | 25°22 | T 19 |
| W20 | 7 57 0 | 29°59'41 | 29°13 | 5°21 | 23°57 | 23°37 | 21°29 | 8°49 | 6°37 | 26°50 | 14°19 | 15°41 | 16°41 | 27°41 | 25°27 | W20 |
| T 21 | 8 0 57 | 1≈ 0'40 | 149516 | 6°19 | 25°13 | 24°14 | 21°41 | 8°46 | 6°40 | 26°52 | 14°19 | 15°39 | 16°38 | 27°47 | 25°32 | T 21 |
| F 22 | 8 4 53 | 2° 1'38 | 29°18 | 7°20 | 26°28 | 24°51 | 21°53 | 8°43 | 6°44 | 26°54 | 14°18 | 15°38 | 16°35 | 27°54 | 25°37 | F 22 |
| S 23 | 8 8 50 | 3° 2'35 | 14 Ω 10 | 8°23 | 27°43 | 25°28 | 22° 5 | 8°40 | 6°47 | 26°55 | 14°17 | 15°D38 | 16°32 | 28° 1 | 25°41 | S 23 |
| S 24 | 8 12 46 | 4° 3'32 | 28°44 | 9°29 | 28°59 | 26° 5 | 22°16 | 8°36 | 6°50 | 26°57 | 14°17 | 15°38 | 16°29 | 28° 7 | 25°46 | S 24 |
| M25 | 8 16 43 | 5° 4'27 | 12 m 55 | 10°38 | 0≈14 | 26°42 | 22°28 | 8°33 | 6°54 | 26°59 | 14°16 | 15°39 | 16°26 | 28°14 | 25°50 | M25 |
| T 26 | 8 20 39 | 6° 5'21 | 26°40 | 11°48 | 1°29 | 27°19 | 22°41 | 8°29 | 6°57 | 27° 1 | 14°15 | 15°40 | 16°22 | 28°21 | 25°55 | T 26 |
| W27 T 28 | 8 24 36 8 28 32 | 7° 6'15 8° 7'08 | 9 ≙ 58 22°51 | 13° 0 14°14 | 2°45 4° 0 | 27°55 28°32 | 22°53 23° 5 | 8°25 8°21 | 7° 0 7° 3 | 27° 3 27° 5 | 14°14 14°14 | 15°40 15°41 | 16°19 16°16 | 28°27 28°34 | 25°59 26° 4 | W27 T 28 |
| F 29 | 8 28 32 8 32 29 | 9° 8'00 | 5M23 | 14°14 15°30 | 5°15 | 28°32 29° 9 | 23°17 | 8°21 8°18 | 7° 6 | 27° 7 | 14°14 14°13 | 15°R41 | 16°13 | 28°34 28°41 | 26° 4 26° 8 | F 29 |
| S 30 | 8 36 26 | 10° 8'51 | 17°38 | 15°30 16°47 | 6°30 | 29°46 | 23°30 | 8°14 | 7°10 | 27° 8 | 14°13 | 15°41 | 16°10 | 28°47 | 26°12 | S 30 |
| S 31 | 8 40 22 | 11≈ 9'41 | 29 M 40 | 18 ට 5 | 7 ≈ 46 | 0 ≯ 22 | 23 \(\) 42 | 8 Mp 10 | 7 ප 13 | 27 × 10 | 14 Ⅱ 12 | 15≈41 | 16 ≈ 7 | 28 × 754 | 26 M .16 | S 31 |

Delta T = 39.83 sec

Greg. Calendar

FEBRUARY 1655 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | φ | ð | 4 | ħ |)ţ(| ¥ | Р | ₽. | Ω | Ç | Š | Day |
|------|----------|------------------|-----------------|----------------|----------------|----------------|----------------|--------|---------------|-----------------|-----------------|----------------|-------|----------------|----------------|------|
| M 1 | 8 44 19 | 12≈10'31 | 11 × 733 | 19 る 25 | 9≈ 1 | 0 才 59 | 23 米 55 | 8°R 6 | 7 ਰ 16 | 27 × 12 | 14°R11 | 15°R41 | 16≈ 3 | 29 × 1 | 26M20 | M 1 |
| T 2 | 8 48 15 | 13°11'19 | 2 <u>3</u> °23 | 20°46 | 10°16 | 1°36 | 24° 8 | 8Mm, 2 | 7°19 | 27°14 | 14 I I11 | 15 ≈ 40 | 16° 0 | 29° 7 | 26°24 | T 2 |
| W 3 | 8 52 12 | 14°12'06 | 5 ਰ 13 | 22° 9 | 11°32 | 2°12 | 24°20 | 7°57 | 7°22 | 27°15 | 14°10 | 15°40 | 15°57 | 29°14 | 26°27 | W 3 |
| T 4 | 8 56 8 | 15°12'53 | 17° 5 | 23°32 | 12°47 | 2°49 | 24°33 | 7°53 | 7°25 | 27°17 | 14°10 | 15°D40 | 15°54 | 29°21 | 26°31 | T 4 |
| F 5 | 9 0 5 | 16°13'38 | 29° 5 | 24°56 | 14° 2 | 3°25 | 24°46 | 7°49 | 7°28 | 27°19 | 14° 9 | 15°40 | 15°51 | 29°28 | 26°34 | F 5 |
| S 6 | 9 4 1 | 17°14'21 | 11≈12 | 26°22 | 15°17 | 4° 2 | 24°59 | 7°45 | 7°31 | 27°20 | 14° 9 | 15°R40 | 15°47 | 29°34 | 26°38 | S 6 |
| S 7 | 9 7 58 | 18°15'04 | 23°30 | 27°49 | 16°32 | 4°38 | 25°12 | 7°40 | 7°34 | 27°22 | 14° 9 | 15°40 | 15°44 | 29°41 | 26°41 | S 7 |
| M 8 | 9 11 55 | 19°15'45 | 5 ∺ 59 | 29°16 | 17°48 | 5°14 | 25°25 | 7°36 | 7°37 | 27°24 | 14° 8 | 15°40 | 15°41 | 29°48 | 26°44 | M 8 |
| T 9 | 9 15 51 | 20°16'24 | 18°40 | 0≈45 | 19° 3 | 5°51 | 25°38 | 7°31 | 7°40 | 27°25 | 14° 8 | 15°39 | 15°38 | 2 <u>9</u> °54 | 26°47 | T 9 |
| W10 | 9 19 48 | 21°17'02 | 1 Y 35 | 2°14 | 20°18 | 6°27 | 25°52 | 7°27 | 7°43 | 27°27 | 14° 7 | 15°39 | 15°35 | 0중 1 | 26°50 | W10 |
| T 11 | 9 23 44 | 22°17'38 | 14°43 | 3°45 | 21°33 | 7° 3 | 26° 5 | 7°22 | 7°46 | 27°28 | 14° 7 | 15°38 | 15°32 | 0° 8 | 26°53 | T 11 |
| F 12 | 9 27 41 | 23°18'12 | 28° 6 | 5°16 | 22°48 | 7°39 | 26°18 | 7°18 | 7°48 | 27°30 | 14° 7 | 15°37 | 15°28 | 0°14 | 26°56 | F 12 |
| S 13 | 9 31 37 | 24°18'45 | 11 8 44 | 6°48 | 24° 4 | 8°16 | 26°32 | 7°13 | 7°51 | 27°31 | 14° 6 | 15°36 | 15°25 | 0°21 | 26°59 | S 13 |
| S 14 | 9 35 34 | 25°19'15 | 25°36 | 8°21 | 25°19 | 8°52 | 26°45 | 7° 9 | 7°54 | 27°33 | 14° 6 | 15°D36 | 15°22 | 0°28 | 27° 1 | S 14 |
| M15 | 9 39 30 | 26°19'44 | 9 Ⅱ 43 | 9°56 | 26°34 | 9°28 | 26°59 | 7° 4 | 7°56 | 27°34 | 14° 6 | 15°36 | 15°19 | 0°34 | 27° 4 | M15 |
| T 16 | 9 43 27 | 27°20'11 | 24° 3 | 11°31 | 27°49 | 10° 4 | 27°12 | 6°59 | 7°59 | 27°35 | 14° 6 | 15°37 | 15°16 | 0°41 | 27° 6 | T 16 |
| W17 | 9 47 24 | 28°20'36 | 8932 | 13° 7 | 29° 4 | 10°40 | 27°26 | 6°55 | 8° 2 | 27°37 | 14° 5 | 15°38 | 15°13 | 0°48 | 27° 9 | W17 |
| T 18 | 9 51 20 | 29°21'00 | 23° 8 | 14°44 | 0 ∺ 19 | 11°16 | 27°39 | 6°50 | 8° 4 | 27°38 | 14° 5 | 15°39 | 15° 9 | 0°54 | 27°11 | T 18 |
| F 19 | 9 55 17 | 0 ∺ 21'21 | 7 Ω 45 | 16°22 | 1°34 | 11°51 | 27°53 | 6°45 | 8° 7 | 27°39 | 14° 5 | 15°40 | 15° 6 | 1° 1 | 27°13 | F 19 |
| S 20 | 9 59 13 | 1°21'40 | 22°16 | 18° 1 | 2°49 | 12°27 | 28° 7 | 6°40 | 8° 9 | 27°40 | 14° 5 | 15°R40 | 15° 3 | 1° 8 | 27°15 | S 20 |
| S 21 | 10 3 10 | 2°21'58 | 6 m 37 | 19°41 | 4° 4 | 13° 3 | 28°21 | 6°35 | 8°12 | 27°42 | 14° 5 | 15°39 | 15° 0 | 1°14 | 27°17 | S 21 |
| M22 | 10 7 6 | 3°22'13 | 20°41 | 21°21 | 5°19 | 13°39 | 28°34 | 6°31 | 8°14 | 27°43 | 14° 5 | 15°37 | 14°57 | 1°21 | 27°18 | M22 |
| T 23 | 10 11 3 | 4°22'28 | 4 º 25 | 23° 3 | 6°34 | 14°14 | 28°48 | 6°26 | 8°17 | 27°44 | 14° 5 | 15°35 | 14°53 | 1°28 | 27°20 | T 23 |
| W24 | 10 14 59 | 5°22'40 | 17°46 | 24°46 | 7°49 | 14°50 | 29° 2 | 6°21 | 8°19 | 27°45 | 14° 4 | 15°32 | 14°50 | 1°35 | 27°22 | W24 |
| T 25 | 10 18 56 | 6°22'51 | 0 M .44 | 26°30 | 9° 4 | 15°25 | 29°16 | 6°16 | 8°21 | 27°46 | 14° 4 | 15°29 | 14°47 | 1°41 | 27°23 | T 25 |
| F 26 | 10 22 53 | 7°23'00 | 13°21 | 28°15 | 10°19 | 16° 1 | 29°30 | 6°11 | 8°24 | 27°47 | 14° 4 | 15°26 | 14°44 | 1°48 | 27°24 | F 26 |
| S 27 | 10 26 49 | 8°23'08 | 25°40 | 0 ∺ 1 | 11°34 | 16°36 | 29°44 | 6° 7 | 8°26 | 27°48 | 14°D 4 | 15°25 | 14°41 | 1°55 | 27°26 | S 27 |
| S 28 | 10 30 46 | 9 ∺ 23'14 | 7 ,₹ 144 | 1 米 49 | 12) 49 | 17 × 12 | 29 ∺ 58 | 6Mp 2 | 8 궁 28 | 27 × 749 | 14 I I 4 | 15°D24 | 14≈38 | 2ට 1 | 27 m 27 | S 28 |

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| Day | Sid.t | 0 | D | ğ | Q. | ð | 4 | ħ |)Å(| ¥ | Р | ₽. | ಬ | Ç | ę, | Day |
|------|----------|-------------------|-----------------|----------------|----------------|-----------------|---------------|---------|---------------|-----------------|-----------------|--------|-------|---------------|----------------|------|
| M 1 | 10 34 42 | 10 ¥ 23′19 | 19 ½ 39 | 3 ∺ 37 | 14) 4 | 17 .7 47 | 0 Υ 12 | 5°R57 | 8 ප 30 | 27 × 750 | 14 Ⅱ 4 | 15≈24 | 14≈34 | 2පි 8 | 27 M 28 | M 1 |
| T 2 | 10 38 39 | 11°23'22 | 1 る 29 | 5°26 | 15°19 | 18°22 | 0°27 | 5 M 52 | 8°32 | 27°51 | 14° 5 | 15°25 | 14°31 | 2°15 | 27°29 | T 2 |
| W 3 | 10 42 35 | 12°23'24 | 13°19 | 7°17 | 16°33 | 18°57 | 0°41 | 5°47 | 8°34 | 27°52 | 14° 5 | 15°27 | 14°28 | 2°21 | 27°29 | W 3 |
| T 4 | 10 46 32 | 13°23'23 | 25°14 | 9° 8 | 17°48 | 19°33 | 0°55 | 5°43 | 8°36 | 27°53 | 14° 5 | 15°29 | 14°25 | 2°28 | 27°30 | T 4 |
| F 5 | 10 50 28 | 14°23'21 | 7 ≈ 18 | 11° 1 | 19° 3 | 20° 8 | 1° 9 | 5°38 | 8°38 | 27°54 | 14° 5 | 15°30 | 14°22 | 2°35 | 27°31 | F 5 |
| S 6 | 10 54 25 | 15°23'18 | 19°34 | 12°55 | 20°18 | 20°43 | 1°23 | 5°33 | 8°40 | 27°55 | 14° 5 | 15°R31 | 14°18 | 2°41 | 27°31 | S 6 |
| S 7 | 10 58 22 | 16°23'12 | 2) 5 | 14°49 | 21°33 | 21°17 | 1°38 | 5°28 | 8°42 | 27°56 | 14° 5 | 15°29 | 14°15 | 2°48 | 27°31 | S 7 |
| M 8 | 11 2 18 | 17°23'04 | 14°53 | 16°45 | 22°48 | 21°52 | 1°52 | 5°24 | 8°44 | 27°56 | 14° 5 | 15°26 | 14°12 | 2°55 | 27°32 | M 8 |
| T 9 | 11 6 15 | 18°22'55 | 27°56 | 18°42 | 24° 2 | 22°27 | 2° 6 | 5°19 | 8°46 | 27°57 | 14° 6 | 15°22 | 14° 9 | 3° 1 | 27°32 | T 9 |
| W10 | 11 10 11 | 19°22'43 | 11 Y 16 | 20°39 | 25°17 | 23° 2 | 2°21 | 5°15 | 8°47 | 27°58 | 14° 6 | 15°17 | 14° 6 | 3° 8 | 27°R32 | W10 |
| T 11 | 11 14 8 | 20°22'29 | 24°49 | 22°38 | 26°32 | 23°36 | 2°35 | 5°10 | 8°49 | 27°59 | 14° 6 | 15°11 | 14° 3 | 3°15 | 27°32 | T 11 |
| F 12 | 11 18 4 | 21°22'14 | 8 8 34 | 24°37 | 27°46 | 24°11 | 2°49 | 5° 5 | 8°51 | 27°59 | 14° 6 | 15° 5 | 13°59 | 3°21 | 27°31 | F 12 |
| S 13 | 11 22 1 | 22°21'56 | 22°29 | 26°36 | 29° 1 | 24°45 | 3° 4 | 5° 1 | 8°52 | 28° 0 | 14° 7 | 15° 1 | 13°56 | 3°28 | 27°31 | S 13 |
| S 14 | 11 25 57 | 23°21'35 | 6 Ⅱ 30 | 28°36 | 0 Υ 16 | 25°19 | 3°18 | 4°56 | 8°54 | 28° 0 | 14° 7 | 14°58 | 13°53 | 3°35 | 27°31 | S 14 |
| M15 | 11 29 54 | 24°21'13 | 20°36 | 0 Υ 37 | 1°30 | 25°54 | 3°33 | 4°52 | 8°55 | 28° 1 | 14° 7 | 14°D57 | 13°50 | 3°41 | 27°30 | M15 |
| T 16 | 11 33 51 | 25°20'48 | 49945 | 2°37 | 2°45 | 26°28 | 3°47 | 4°48 | 8°57 | 28° 1 | 14° 8 | 14°57 | 13°47 | 3°48 | 27°30 | T 16 |
| W17 | 11 37 47 | 26°20'21 | 18°56 | 4°37 | 4° 0 | 27° 2 | 4° 2 | 4°43 | 8°58 | 28° 2 | 14° 8 | 14°58 | 13°44 | 3°55 | 27°29 | W17 |
| T 18 | 11 41 44 | 27°19'51 | 3 Ω 7 | 6°36 | 5°14 | 27°36 | 4°16 | 4°39 | 9° 0 | 28° 2 | 14° 9 | 14°59 | 13°40 | 4° 1 | 27°28 | T 18 |
| F 19 | 11 45 40 | 28°19'20 | 17°15 | 8°35 | 6°29 | 28°10 | 4°31 | 4°35 | 9° 1 | 28° 3 | 14° 9 | 15°R 0 | 13°37 | 4° 8 | 27°27 | F 19 |
| S 20 | 11 49 37 | 29°18'45 | 1 m) 19 | 10°32 | 7°43 | 28°43 | 4°45 | 4°31 | 9° 2 | 28° 3 | 14°10 | 14°59 | 13°34 | 4°15 | 27°26 | S 20 |
| S 21 | 11 53 33 | 0 Υ 18'09 | 15°14 | 12°28 | 8°58 | 29°17 | 5° 0 | 4°27 | 9° 4 | 28° 3 | 14°10 | 14°55 | 13°31 | 4°22 | 27°25 | S 21 |
| M22 | 11 57 30 | 1°17'30 | 28°59 | 14°22 | 10°12 | 29°51 | 5°14 | 4°23 | 9° 5 | 28° 4 | 14°10 | 14°50 | 13°28 | 4°28 | 27°24 | M22 |
| T 23 | 12 1 26 | 2°16'50 | 12 ≏ 28 | 16°14 | 11°27 | 0 る 24 | 5°29 | 4°19 | 9° 6 | 28° 4 | 14°11 | 14°43 | 13°24 | 4°35 | 27°22 | T 23 |
| W24 | 12 5 23 | 3°16'07 | 25°40 | 18° 3 | 12°41 | 0°57 | 5°43 | 4°15 | 9° 7 | 28° 4 | 14°12 | 14°34 | 13°21 | 4°42 | 27°21 | W24 |
| T 25 | 12 9 19 | 4°15'22 | 8 M .34 | 19°48 | 13°55 | 1°31 | 5°58 | 4°11 | 9° 8 | 28° 4 | 14°12 | 14°25 | 13°18 | 4°48 | 27°19 | T 25 |
| F 26 | 12 13 16 | 5°14'36 | 21°10 | 21°30 | 15°10 | 2° 4 | 6°12 | 4° 7 | 9° 9 | 28° 5 | 14°13 | 14°17 | 13°15 | 4°55 | 27°18 | F 26 |
| S 27 | 12 17 13 | 6°13'48 | 3 ₹ 29 | 23° 8 | 16°24 | 2°37 | 6°27 | 4° 3 | 9°10 | 28° 5 | 14°13 | 14°11 | 13°12 | 5° 2 | 27°16 | S 27 |
| S 28 | 12 21 9 | 7°12'57 | 15°34 | 24°42 | 17°38 | 3°10 | 6°41 | 4° 0 | 9°11 | 28° 5 | 14°14 | 14° 6 | 13° 9 | 5° 8 | 27°14 | S 28 |
| M29 | 12 25 6 | 8°12'06 | 27°29 | 26°11 | 18°53 | 3°43 | 6°56 | 3°56 | 9°11 | 28° 5 | 14°15 | 14° 3 | 13° 5 | 5°15 | 27°12 | M29 |
| T 30 | 12 29 2 | 9°11'12 | 9 조 20 | 27°35 | 20° 7 | <u>4</u> °15 | 7°10 | 3°53 | <u>9°12</u> | 28° 5 | 14°15 | 14°D 2 | 13° 2 | <u>5°22</u> | 27°10 | T 30 |
| W31 | 12 32 59 | 10 Υ 10'17 | 21 궁 10 | 28 Y 54 | 21 Y 21 | 4 る 48 | 7 Y 25 | 3 Mp 49 | 9 る 13 | 28°R 5 | 14 I I16 | 14≈ 3 | 12≈59 | 5 る 28 | 27 m 8 | W31 |

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APRIL 1655 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)Å(| 卉 | В | ß | v | ţ | ę, | Day |
|------|----------|------------------|------------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|----------------|--------|-------|---------------|---------------|------|
| T 1 | 12 36 55 | 11 ° 9'19 | 3≈ 6 | 08 7 | 22 Y 36 | 5 る 20 | 7 Υ 39 | 3°R46 | 9 ට 14 | 28°R 5 | 14 Ⅱ 17 | 14≈ 4 | 12≈56 | 5 七 35 | 27°R 6 | T 1 |
| F 2 | 12 40 52 | 12° 8'20 | 15°12 | 1°15 | 23°50 | 5°53 | 7°54 | 3 Mp 43 | 9°14 | 28 × 5 | 14°17 | 14°R 4 | 12°53 | 5°42 | 27 M 3 | F 2 |
| S 3 | 12 44 48 | 13° 7'19 | 27°33 | 2°17 | 25° 4 | 6°25 | 8° 8 | 3°40 | 9°15 | 28° 5 | 14°18 | 14° 3 | 12°50 | 5°48 | 27° 1 | S 3 |
| S 4 | 12 48 45 | 14° 6'16 | 10 米 13 | 3°12 | 26°18 | 6°57 | 8°23 | 3°37 | 9°15 | 28° 5 | 14°19 | 14° 0 | 12°46 | 5°55 | 26°59 | S 4 |
| M 5 | 12 52 42 | 15° 5'12 | 23°15 | 4° 1 | 27°32 | 7°29 | 8°37 | 3°34 | 9°16 | 28° 4 | 14°20 | 13°55 | 12°43 | 6° 2 | 26°56 | M 5 |
| T 6 | 12 56 38 | 16° 4'05 | 6 Ƴ 38 | 4°44 | 28°46 | 8° 0 | 8°52 | 3°31 | 9°16 | 28° 4 | 14°20 | 13°47 | 12°40 | 6° 8 | 26°53 | T 6 |
| W 7 | 13 0 35 | 17° 2'56 | 20°21 | 5°21 | 08 0 | 8°32 | 9° 6 | 3°28 | 9°17 | 28° 4 | 14°21 | 13°37 | 12°37 | 6°15 | 26°51 | W 7 |
| T 8 | 13 431 | 18° 1'46 | 4822 | 5°51 | 1°15 | 9° 3 | 9°20 | 3°25 | 9°17 | 28° 4 | 14°22 | 13°27 | 12°34 | 6°22 | 26°48 | T 8 |
| F 9 | 13 8 28 | 19° 0'33 | 18°35 | 6°15 | 2°29 | 9°35 | 9°35 | 3°22 | 9°17 | 28° 3 | 14°23 | 13°16 | 12°30 | 6°28 | 26°45 | F 9 |
| S 10 | 13 12 24 | 19°59'19 | 2 Ⅱ 54 | 6°32 | 3°43 | 10° 6 | 9°49 | 3°20 | 9°17 | 28° 3 | 14°24 | 13° 8 | 12°27 | 6°35 | 26°42 | S 10 |
| S 11 | 13 16 21 | 20°58'02 | 17°15 | 6°43 | 4°57 | 10°37 | 10° 4 | 3°17 | 9°17 | 28° 3 | 14°25 | 13° 1 | 12°24 | 6°42 | 26°39 | S 11 |
| M12 | 13 20 17 | 21°56'43 | 19534 | 6°R47 | 6°11 | 11° 7 | 10°18 | 3°15 | 9°18 | 28° 2 | 14°26 | 12°57 | 12°21 | 6°48 | 26°36 | M12 |
| T 13 | 13 24 14 | 22°55'21 | 15°46 | 6°46 | 7°25 | 11°38 | 10°32 | 3°13 | 9°R18 | 28° 2 | 14°27 | 12°56 | 12°18 | 6°55 | 26°33 | T 13 |
| W14 | 13 28 11 | 23°53'58 | 29°51 | 6°39 | 8°38 | 12° 8 | 10°47 | 3°11 | 9°18 | 28° 2 | 14°27 | 12°D56 | 12°15 | 7° 2 | 26°29 | W14 |
| T 15 | 13 32 7 | 24°52'32 | 13 Ω 48 | 6°26 | 9°52 | 12°39 | 11° 1 | 3° 8 | 9°18 | 28° 1 | 14°28 | 12°R56 | 12°11 | 7° 8 | 26°26 | T 15 |
| F 16 | 13 36 4 | 25°51'04 | 27°36 | 6° 7 | 11° 6 | 13° 9 | 11°15 | 3° 6 | 9°17 | 28° 1 | 14°29 | 12°55 | 12° 8 | 7°15 | 26°22 | F 16 |
| S 17 | 13 40 0 | 26°49'33 | 11 M p 15 | 5°44 | 12°20 | 13°38 | 11°30 | 3° 5 | 9°17 | 28° 0 | 14°30 | 12°52 | 12° 5 | 7°22 | 26°19 | S 17 |
| S 18 | 13 43 57 | 27°48'01 | 24°45 | 5°17 | 13°34 | 14° 8 | 11°44 | 3° 3 | 9°17 | 27°59 | 14°31 | 12°47 | 12° 2 | 7°28 | 26°15 | S 18 |
| M19 | 13 47 53 | 28°46'26 | 8 亞 5 | 4°46 | 14°48 | 14°38 | 11°58 | 3° 1 | 9°17 | 27°59 | 14°32 | 12°39 | 11°59 | 7°35 | 26°12 | M19 |
| T 20 | 13 51 50 | 29°44'49 | 21°13 | 4°12 | 16° 1 | 15° 7 | 12°12 | 3° 0 | 9°16 | 27°58 | 14°33 | 12°28 | 11°55 | 7°42 | 26° 8 | T 20 |
| W21 | 13 55 46 | 0 8 43'11 | 4 M 8 | 3°35 | 17°15 | 15°36 | 12°26 | 2°58 | 9°16 | 27°58 | 14°34 | 12°15 | 11°52 | 7°48 | 26° 4 | W21 |
| T 22 | 13 59 43 | 1°41'31 | 16°49 | 2°57 | 18°29 | 16° 5 | 12°40 | 2°57 | 9°16 | 27°57 | 14°36 | 12° 2 | 11°49 | 7°55 | 26° 1 | T 22 |
| F 23 | 14 3 40 | 2°39'49 | 29°16 | 2°17 | 19°42 | 16°33 | 12°54 | 2°55 | 9°15 | 27°56 | 14°37 | 11°50 | 11°46 | 8° 2 | 25°57 | F 23 |
| S 24 | 14 7 36 | 3°38'05 | 11 × 29 | 1°37 | 20°56 | 17° 2 | 13° 8 | 2°54 | 9°15 | 27°55 | 14°38 | 11°39 | 11°43 | 8° 8 | 25°53 | S 24 |
| S 25 | 14 11 33 | 4°36'20 | 23°32 | 0°58 | 22°10 | 17°30 | 13°22 | 2°53 | 9°14 | 27°55 | 14°39 | 11°31 | 11°40 | 8°15 | 25°49 | S 25 |
| M26 | 14 15 29 | 5°34'33 | 5 る 25 | 0°20 | 23°23 | 17°58 | 13°36 | 2°52 | 9°14 | 27°54 | 14°40 | 11°26 | 11°36 | 8°22 | 25°45 | M26 |
| T 27 | 14 19 26 | 6°32'45 | 17°15 | 29 Y 43 | 24°37 | 18°26 | 13°50 | 2°51 | 9°13 | 27°53 | 14°41 | 11°23 | 11°33 | 8°28 | 25°41 | T 27 |
| W28 | 14 23 22 | 7°30'55 | 29° 4 | 29° 9 | 25°50 | 18°53 | 14° 4 | 2°50 | 9°12 | 27°52 | 14°42 | 11°22 | 11°30 | 8°35 | 25°37 | W28 |
| T 29 | 14 27 19 | 8°29'03 | 10≈59 | 28°37 | 27° 4 | 19°20 | 14°18 | 2°50 | 9°12 | 27°51 | 14°43 | 11°21 | 11°27 | 8°42 | 25°33 | T 29 |
| F 30 | 14 31 15 | 9 8 27'10 | 23≈ 5 | 28 Y 9 | 28 8 17 | 19 る 47 | 14 Y 32 | 2 m 49 | 9 ठ 11 | 27 ₹ 50 | 14∏44 | 11≈21 | 11≈24 | 8 ₹ 48 | 25M29 | F 30 |

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|------|----------|------------------|-----------------|----------------|----------------|----------------|----------------|---------|---------------|-----------------|----------------|----------------|---------------|----------------|----------------|------|
| S 1 | 14 35 12 | 10825'16 | 5 ¥ 27 | 27°R45 | 29 8 31 | 20 ට 14 | 14 Y 46 | 2°R49 | 9°R10 | 27°R49 | 14 Ⅱ 46 | 11°R20 | 11≈21 | 8 궁 55 | 25°R24 | S 1 |
| S 2 | 14 39 9 | 11°23'20 | 18°10 | 27 Y 24 | 0 Ⅱ 44 | 20°40 | 14°59 | 2 Mp 48 | 9 궁 9 | 27 ~ 148 | 14°47 | 11 ≈ 16 | 11°17 | 9° 2 | 25 M 20 | S 2 |
| M 3 | 14 43 5 | 12°21'23 | 1 Y 18 | 27° 8 | 1°57 | 21° 6 | 15°13 | 2°48 | 9°8 | 27°47 | 14°48 | 11°10 | 11°14 | 9° 8 | 25°16 | M 3 |
| T 4 | 14 47 2 | 13°19'24 | 14°52 | 26°57 | 3°11 | 21°32 | 15°27 | 2°48 | 9° 7 | 27°46 | 14°49 | 11° 2 | 11°11 | 9°15 | 25°12 | T 4 |
| W 5 | 14 50 58 | 14°17'24 | 28°51 | 26°50 | 4°24 | 21°57 | 15°40 | 2°D48 | 9° 6 | 27°45 | 14°50 | 10°51 | 11°8 | 9°22 | 25° 7 | W 5 |
| T 6 | 14 54 55 | 15°15'23 | 13812 | 26°D47 | 5°37 | 22°23 | 15°54 | 2°48 | 9° 5 | 27°44 | 14°52 | 10°39 | 11° 5 | 9°28 | 25° 3 | T 6 |
| F 7 | 14 58 51 | 16°13'20 | 27°49 | 26°49 | 6°51 | 22°48 | 16° 7 | 2°48 | 9° 4 | 27°43 | 14°53 | 10°28 | 11° 1 | 9°35 | 24°59 | F 7 |
| S 8 | 15 2 48 | 17°11'15 | 12 Ⅱ 34 | 26°56 | 8° 4 | 23°12 | 16°21 | 2°49 | 9° 3 | 27°42 | 14°54 | 10°18 | 10°58 | 9°42 | 24°54 | S 8 |
| S 9 | 15 6 44 | 18° 9'09 | 27°20 | 27° 8 | 9°17 | 23°36 | 16°34 | 2°49 | 9° 2 | 27°41 | 14°55 | 10°11 | 10°55 | 9°48 | 24°50 | S 9 |
| M10 | 15 10 41 | 19° 7'01 | 119558 | 27°24 | 10°30 | 24° 0 | 16°48 | 2°49 | 9° 0 | 27°40 | 14°57 | 10° 6 | 10°52 | 9°55 | 24°45 | M10 |
| T 11 | 15 14 38 | 20° 4'51 | 26°25 | 27°44 | 11°44 | 24°24 | 17° 1 | 2°50 | 8°59 | 27°39 | 14°58 | 10° 4 | 10°49 | 10° 2 | 24°41 | T 11 |
| W12 | 15 18 34 | 21° 2'40 | $10\Omega 36$ | 28° 9 | 12°57 | 24°47 | 17°14 | 2°51 | 8°58 | 27°37 | 14°59 | 10°D 4 | 10°46 | 10° 8 | 24°37 | W12 |
| T 13 | 15 22 31 | 22° 0'27 | 24°31 | 28°38 | 14°10 | 25° 9 | 17°27 | 2°51 | 8°56 | 27°36 | 15° 1 | 10°R 4 | 10°42 | 10°15 | 24°32 | T 13 |
| F 14 | 15 26 27 | 22°58'12 | 8 M p11 | 29°11 | 15°23 | 25°32 | 17°40 | 2°52 | 8°55 | 27°35 | 15° 2 | 10° 3 | 10°39 | 10°22 | 24°28 | F 14 |
| S 15 | 15 30 24 | 23°55'55 | 21°35 | 29°48 | 16°36 | 25°54 | 17°54 | 2°53 | 8°53 | 27°34 | 15° 3 | 10° 0 | 10°36 | 10°28 | 24°23 | S 15 |
| S 16 | 15 34 20 | 24°53'36 | 4 ≗ 47 | 0829 | 17°49 | 26°16 | 18° 6 | 2°55 | 8°52 | 27°32 | 15° 5 | 9°55 | 10°33 | 10°35 | 24°19 | S 16 |
| M17 | 15 38 17 | 25°51'17 | 17°46 | 1°14 | 19° 2 | 26°37 | 18°19 | 2°56 | 8°50 | 27°31 | 15° 6 | 9°47 | 10°30 | 10°42 | 24°14 | M17 |
| T 18 | 15 42 13 | 26°48'55 | 0 M .34 | 2° 2 | 20°15 | 26°58 | 18°32 | 2°57 | 8°49 | 27°30 | 15° 7 | 9°37 | 10°27 | 10°48 | 24°10 | T 18 |
| W19 | 15 46 10 | 27°46'32 | 13°10 | 2°54 | 21°28 | 27°18 | 18°45 | 2°59 | 8°47 | 27°28 | 15° 9 | 9°25 | 10°23 | 10°55 | 24° 5 | W19 |
| T 20 | 15 50 7 | 28°44'08 | 25°35 | 3°49 | 22°40 | 27°38 | 18°58 | 3° 0 | 8°46 | 27°27 | 15°10 | 9°13 | 10°20 | 11° 2 | 24° 1 | T 20 |
| F 21 | 15 54 3 | 29°41'43 | 7 .₹ 49 | 4°47 | 23°53 | 27°58 | 19°11 | 3° 2 | 8°44 | 27°26 | 15°11 | 9° 1 | 10°17 | 11° 8 | 23°57 | F 21 |
| S 22 | 15 58 0 | 0 Ⅱ 39'17 | 19°54 | 5°49 | 25° 6 | 28°17 | 19°23 | 3° 3 | 8°42 | 27°24 | 15°13 | 8°51 | 10°14 | 11°15 | 23°52 | S 22 |
| S 23 | 16 1 56 | 1°36'49 | 1 る 51 | 6°54 | 26°19 | 28°35 | 19°36 | 3° 5 | 8°41 | 27°23 | 15°14 | 8°43 | 10°11 | 11°22 | 23°48 | S 23 |
| M24 | 16 5 53 | 2°34'21 | 13°41 | 8° 1 | 27°32 | 28°54 | 19°48 | 3° 7 | 8°39 | 27°22 | 15°15 | 8°38 | 10° 7 | 11°28 | 23°43 | M24 |
| T 25 | 16 9 49 | 3°31'52 | 25°29 | 9°12 | 28°44 | 29°11 | 20° 1 | 3° 9 | 8°37 | 27°20 | 15°17 | 8°35 | 10° 4 | 11°35 | 23°39 | T 25 |
| W26 | 16 13 46 | 4°29'21 | 7≈18 | 10°26 | 29°57 | 29°29 | 20°13 | 3°11 | 8°35 | 27°19 | 15°18 | 8°D34 | 10° 1 | 11°42 | 23°35 | W26 |
| T 27 | 16 17 42 | 5°26'50 | 19°12 | 11°43 | 19910 | 29°45 | 20°25 | 3°14 | 8°33 | 27°17 | 15°20 | 8°34 | 9°58 | 11°48 | 23°30 | T 27 |
| F 28 | 16 21 39 | 6°24'18 | 1) (17 | 13° 2 | 2°22 | 0≈ 1 | 20°37 | 3°16 | 8°31 | 27°16 | 15°21 | 8°R35 | 9°55 | 11°55 | 23°26 | F 28 |
| S 29 | 16 25 36 | 7°21'45 | 13°38 | 14°24 | 3°35 | 0°17 | 20°49 | 3°18 | 8°29 | 27°14 | 15°22 | 8°35 | 9°52 | 12° 2 | 23°22 | S 29 |
| S 30 | 16 29 32 | 8°19'12 | 26°20 | 15°49 | 4°47 | 0°32 | 21° 1 | 3°21 | 8°27 | 27°13 | 15°24 | 8°33 | 9°48 | 12° 8 | 23°18 | S 30 |
| M31 | 16 33 29 | 9 Ⅱ 16'38 | 9 Ƴ 27 | 17817 | 6 9 0 | 0≈47 | 21 Y 13 | 3 Mp 23 | 8 궁 25 | 27 × 11 | 15 Ⅱ 25 | 8≈29 | 9 ≈ 45 | 12 る 15 | 23M14 | M31 |

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|--------------|----------------------|--------------------------|------------------------|----------------|----------------|--------------|----------------|--------------|---------------|----------------|----------------|---------------|--------------|----------------|----------------|--------------|
| T 1 | 16 37 25 | 10 Ⅱ 14′03 | 23 ° 2 | 18 8 47 | 79512 | 1≈ 1 | 21 Y 25 | 3 Mp 26 | 8°R23 | 27°R10 | 15 Ⅱ 26 | 8°R24 | 9≈42 | 12 る 22 | 23°R10 | T 1 |
| W 2 | 16 41 22 | 11°11'27 | 7 8 5 | 20°21 | 8°25 | 1°14 | 21°37 | 3°29 | 8 ප 21 | 27 ,₹ 8 | 15°28 | 8≈16 | 9°39 | 12°28 | 23 m 5 | W 2 |
| T 3 | 16 45 18 | 12° 8'51 | 21°34 | 21°56 | 9°37 | 1°27 | 21°49 | 3°32 | 8°19 | 27° 7 | 15°29 | 8° 8 | 9°36 | 12°35 | 23° 1 | T 3 |
| F 4 | 16 49 15 | 13° 6'15 | 6 Ⅱ 24 | 23°35 | 10°49 | 1°39 | 22° 0 | 3°35 | 8°17 | 27° 5 | 15°31 | 7°59 | 9°33 | 12°42 | 22°57 | F 4 |
| S 5 | 16 53 11 | 14° 3'37 | 21°26 | 25°16 | 12° 2 | 1°51 | 22°12 | 3°38 | 8°15 | 27° 3 | 15°32 | 7°52 | 9°29 | 12°48 | 22°53 | S 5 |
| S 6 | 16 57 8 | 15° 0'59 | 6 9्31 | 27° 0 | 13°14 | 2° 1 | 22°23 | 3°41 | 8°13 | 27° 2 | 15°33 | 7°47 | 9°26 | 12°55 | 22°50 | S 6 |
| M 7 | 17 1 5 | 15°58'20 | 21°30 | 28°46 | 14°26 | 2°12 | 22°34 | 3°44 | 8°11 | 27° 0 | 15°35 | 7°43 | 9°23 | 13° 2 | 22°46 | M 7 |
| T 8 | 17 5 1 | 16°55'40 | 6Ω14 | 0Д35 | 15°39 | 2°21 | 22°46 | 3°48 | 8° 9 | 26°59 | 15°36 | 7°D42 | 9°20 | 13° 8 | 22°42 | T 8 |
| W 9 | 17 8 58 | 17°52'59 | 20°40 | 2°26 | 16°51 | 2°30 | 22°57 | 3°51 | 8° 6 | 26°57 | 15°38 | 7°43 | 9°17 | 13°15 | 22°38 | W 9 |
| T 10 F 11 | 17 12 54 17 16 51 | 18°50'17 19°47'34 | 4 Mp 44 18°25 | 4°20 6°17 | 18° 3 19°15 | 2°39 2°46 | 23° 8 23°19 | 3°55 3°58 | 8° 4 8° 2 | 26°56 26°54 | 15°39 15°40 | 7°44 7°R45 | 9°13 9°10 | 13°22 13°28 | 22°34 22°31 | T 10 F 11 |
| S 12 | 17 16 31 | 20°44'50 | 18°23 1 ≗ 47 | 8°15 | 20°27 | 2°53 | 23°19 23°30 | 4° 2 | 8° 0 | 26°54 26°52 | 15°40 15°42 | 7°44 | 9° 10 | 13°28 13°35 | 22°27 | S 12 |
| | | | - | | | | | | | | | | | | | |
| S 13 | 17 24 44 | 21°42'06 | 14°49 | 10°16 | 21°39 | 2°59 | 23°40 | 4° 6 | 7°57 | 26°51 | 15°43 | 7°42 | 9° 4 | 13°42 | 22°24 | S 13 |
| M14 | 17 28 40 | 22°39'20 | 27°36 | 12°19 | 22°51 | 3° 5 | 23°51 | 4°10 | 7°55 | 26°49 | 15°45 | 7°37 | 9° 1 | 13°48 | 22°20 | M14 |
| T 15 W16 | 17 32 37 17 36 34 | 23°36'34 24°33'47 | 10M 9 22°30 | 14°23 16°30 | 24° 3 25°15 | 3°10 3°14 | 24° 1 24°12 | 4°14 4°18 | 7°53 7°50 | 26°47 26°46 | 15°46 15°47 | 7°31 7°24 | 8°58 8°54 | 13°55 14° 2 | 22°17 22°14 | T 15 W16 |
| T 17 | 17 40 30 | 24 33 47 25°31'00 | 4 ×7 41 | 18°38 | 25°13 | 3°17 | 24°12 24°22 | 4°18 | 7°48 | 26°44 | 15°49 | 7°16 | 8°51 | 14 2 14° 8 | 22°10 | T 17 |
| F 18 | 17 44 27 | 26°28'12 | 16°44 | 20°47 | 20°27 27°38 | 3°20 | 24°32 | 4°26 | 7°46 | 26°43 | 15°50 | 7° 9 | 8°48 | 14°15 | 22° 7 | F 18 |
| S 19 | 17 48 23 | 27°25'24 | 28°40 | 22°57 | 28°50 | 3°22 | 24°43 | 4°30 | 7°43 | 26°41 | 15°52 | 7° 3 | 8°45 | 14°22 | 22° 4 | S 19 |
| S 20 | 17 52 20 | 28°22'36 | 10중31 | 25° 7 | 0Ω 2 | 3°23 | 24°52 | 4°35 | 7°41 | 26°39 | 15°53 | 6°58 | 8°42 | 14°28 | 22° 1 | S 20 |
| M21 | 17 56 16 | 28° 22' 30 29° 19' 47 | 22°19 | 27°18 | 1°13 | 3°R24 | 25° 2 | 4°39 | 7°39 | 26°38 | 15°54 | 6°55 | 8°39 | 14°35 | 21°58 | M21 |
| T 22 | 18 0 13 | 09016'58 | 4 ≈ 7 | 29°30 | 2°25 | 3°23 | 25°12 | 4°44 | 7°36 | 26°36 | 15°56 | 6°D54 | 8°35 | 14°42 | 21°55 | T 22 |
| W23 | 18 4 10 | 1°14'09 | 15°58 | 19541 | 3°36 | 3°22 | 25°22 | 4°48 | 7°34 | 26°35 | 15°57 | 6°55 | 8°32 | 14°48 | 21°53 | W23 |
| T 24 | 18 8 6 | 2°11'20 | 27°54 | 3°51 | 4°48 | 3°20 | 25°31 | 4°53 | 7°31 | 26°33 | 15°58 | 6°56 | 8°29 | 14°55 | 21°50 | T 24 |
| F 25 | 18 12 3 | 3° 8'31 | 10 米 1 | 6° 1 | 5°59 | 3°18 | 25°41 | 4°58 | 7°29 | 26°31 | 16° 0 | 6°58 | 8°26 | 15° 1 | 21°47 | F 25 |
| S 26 | 18 15 59 | 4° 5'42 | 22°22 | 8°10 | 7°11 | 3°15 | 25°50 | 5° 2 | 7°27 | 26°30 | 16° 1 | 6°59 | 8°23 | 15° 8 | 21°45 | S 26 |
| S 27 | 18 19 56 | 5° 2'54 | 5 Υ 2 | 10°18 | 8°22 | 3°10 | 25°59 | 5° 7 | 7°24 | 26°28 | 16° 2 | 6°R59 | 8°19 | 15°15 | 21°42 | S 27 |
| M28 | 18 23 52 | 6° 0'05 | 18° 6 | 12°25 | 9°33 | 3° 6 | 26° 8 | 5°12 | 7°22 | 26°27 | 16° 4 | 6°59 | 8°16 | 15°21 | 21°40 | M28 |
| T 29 | 18 27 49 | 6°57'17 | 1836 | 14°30 | 10°45 | 3° 0 | 26°17 | 5°17 | 7°19 | 26°25 | 16° 5 | 6°57 | 8°13 | 15°28 | 21°38 | T 29 |
| W30 | 18 31 45 | 7954'29 | 15 8 33 | 16934 | 11 Q 56 | 2≈54 | 26 Y 26 | 5 Mg 23 | 7 궁 17 | 26 × 23 | 16耳 6 | 6≈54 | 8≈10 | 15 る 35 | 21 M 35 | W30 |

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| T 1 | 18 35 42 | 8951'41 | 29 8 58 | 18936 | 13 Ω 7 | 2°R47 | 26 Y 35 | 5 m 28 | 7°R14 | 26°R22 | 16耳 8 | 6°R50 | 8≈ 7 | 15 중 41 | 21°R33 | T 1 |
| F 2 | 18 39 39 | 9°48'54 | 14∏46 | 20°37 | 14°18 | 2≈39 | 26°43 | 5°33 | 7 云 12 | 26 × ⁷ 20 | 16° 9 | 6≈46 | 8° 4 | 15°48 | 21 M 31 | F 2 |
| S 3 | 18 43 35 | 10°46'07 | 29°51 | 22°35 | 15°29 | 2°30 | 26°51 | 5°38 | 7°10 | 26°19 | 16°10 | 6°43 | 8° 0 | 15°55 | 21°29 | S 3 |
| S 4 | 18 47 32 | 11°43'20 | 1595 3 | 24°32 | 16°40 | 2°21 | 27° 0 | 5°44 | 7° 7 | 26°17 | 16°12 | 6°41 | 7°57 | 16° 1 | 21°28 | S 4 |
| M 5 | 18 51 28 | 12°40'34 | 0 Ω 13 | 26°27 | 17°51 | 2°11 | 27° 8 | 5°49 | 7° 5 | 26°16 | 16°13 | 6°D40 | 7°54 | 16° 8 | 21°26 | M 5 |
| T 6 | 18 55 25 | 13°37'47 | 15°11 | 28°20 | 19° 2 | 2° 1 | 27°16 | 5°55 | 7° 2 | 26°14 | 16°14 | 6°40 | 7°51 | 16°15 | 21°24 | T 6 |
| W 7 | 18 59 21 | 14°35'00 | 29°51 | 0 Ω 11 | 20°13 | 1°49 | 27°24 | 6° 0 | 7° 0 | 26°12 | 16°15 | 6°41 | 7°48 | 16°21 | 21°23 | W 7 |
| T 8 | 19 3 18 | 15°32'13 | 14Mp 7 | 2° 1 | 21°23 | 1°38 | 27°31 | 6° 6 | 6°58 | 26°11 | 16°17 | 6°42 | 7°45 | 16°28 | 21°21 | T 8 |
| F 9 | 19 7 14 | 16°29'27 | 27°58 | 3°48 | 22°34 | 1°25 | 27°39 | 6°12 | 6°55 | 26° 9 | 16°18 | 6°43 | 7°41 | 16°35 | 21°20 | F 9 |
| S 10 | 19 11 11 | 17°26'40 | 11 ≏ 23 | 5°33 | 23°45 | 1°13 | 27°46 | 6°17 | 6°53 | 26° 8 | 16°19 | 6°R44 | 7°38 | 16°41 | 21°18 | S 10 |
| S 11 | 19 15 8 | 18°23'53 | 24°26 | 7°17 | 24°55 | 0°59 | 27°54 | 6°23 | 6°50 | 26° 7 | 16°20 | 6°44 | 7°35 | 16°48 | 21°17 | S 11 |
| M12 | 19 19 4 | 19°21'07 | 7 M 8 | 8°58 | 26° 6 | 0°45 | 28° 1 | 6°29 | 6°48 | 26° 5 | 16°22 | 6°43 | 7°32 | 16°55 | 21°16 | M12 |
| T 13 | 19 23 1 | 20°18'21 | 19°34 | 10°38 | 27°16 | 0°31 | 28° 8 | 6°35 | 6°46 | 26° 4 | 16°23 | 6°42 | 7°29 | 17° 1 | 21°15 | T 13 |
| W14 | 19 26 57 | 21°15'35 | 1 ∡ 746 | 12°16 | 28°26 | 0°17 | 28°14 | 6°41 | 6°43 | 26° 2 | 16°24 | 6°40 | 7°25 | 17° 8 | 21°14 | W14 |
| T 15 | 19 30 54 | 22°12'49 | 13°48 | 13°52 | 29°37 | 0° 2 | 28°21 | 6°47 | 6°41 | 26° 1 | 16°25 | 6°38 | 7°22 | 17°15 | 21°14 | T 15 |
| F 16 | 19 34 50 | 23°10'04 | 25°42 | 15°26 | 0 m /47 | 29 궁 46 | 28°28 | 6°53 | 6°39 | 25°59 | 16°26 | 6°36 | 7°19 | 17°21 | 21°13 | F 16 |
| S 17 | 19 38 47 | 24° 7'19 | 7 云 33 | 16°58 | 1°57 | 29°31 | 28°34 | 6°59 | 6°37 | 25°58 | 16°28 | 6°34 | 7°16 | 17°28 | 21°12 | S 17 |
| S 18 | 19 42 43 | 25° 4'34 | 19°21 | 18°28 | 3° 7 | 29°15 | 28°40 | 7° 6 | 6°34 | 25°57 | 16°29 | 6°33 | 7°13 | 17°35 | 21°12 | S 18 |
| M19 | 19 46 40 | 26° 1'50 | 1≈10 | 19°56 | 4°17 | 28°59 | 28°46 | 7°12 | 6°32 | 25°55 | 16°30 | 6°D32 | 7°10 | 17°41 | 21°11 | M19 |
| T 20 | 19 50 37 | 26°59'07 | 13° 1 | 21°22 | 5°27 | 28°43 | 28°52 | 7°18 | 6°30 | 25°54 | 16°31 | 6°32 | 7° 6 | 17°48 | 21°11 | T 20 |
| W21 | 19 54 33 | 27°56'25 | 24°57 | 22°46 | 6°36 | 28°27 | 28°58 | 7°24 | 6°28 | 25°53 | 16°32 | 6°33 | 7° 3 | 17°55 | 21°11 | W21 |
| T 22 | 19 58 30 | 28°53'43 | 7 ∺ 1 | 24° 8 | 7°46 | 28°10 | 29° 3 | 7°31 | 6°25 | 25°51 | 16°33 | 6°33 | 7° 0 | | 21°D11 | T 22 |
| F 23 | 20 2 26 | 29°51'02 | 19°15 | 25°28 | 8°56 | 27°54 | 29° 9 | 7°37 | 6°23 | 25°50 | 16°34 | 6°34 | 6°57 | 18° 8 | 21°11 | F 23 |
| S 24 | 20 6 23 | 0 Ω 48'22 | 1 Ƴ 42 | 26°46 | 10° 5 | 27°38 | 29°14 | 7°44 | 6°21 | 25°49 | 16°35 | 6°35 | 6°54 | 18°14 | 21°11 | S 24 |
| S 25 | 20 10 19 | 1°45'43 | 14°25 | 28° 2 | 11°15 | 27°21 | 29°19 | 7°50 | 6°19 | 25°48 | 16°36 | 6°35 | 6°51 | 18°21 | 21°11 | S 25 |
| M26 | 20 14 16 | 2°43'05 | 27°28 | 29°16 | 12°24 | 27° 5 | 29°24 | 7°57 | 6°17 | 25°46 | 16°37 | 6°R35 | 6°47 | 18°28 | 21°11 | M26 |
| T 27 | 20 18 12 | 3°40'29 | 10 8 53 | 0 m 27 | 13°33 | 26°49 | 29°28 | 8° 4 | 6°15 | 25°45 | 16°38 | 6°35 | 6°44 | 18°34 | 21°12 | T 27 |
| W28 | 20 22 9 | 4°37'53 | 24°42 | 1°36 | 14°42 | 26°33 | 29°33 | 8°10 | 6°13 | 25°44 | 16°39 | 6°35 | 6°41 | 18°41 | 21°12 | W28 |
| T 29 | 20 26 6 | 5°35'19 | 8 Ⅱ 54 | 2°43 | 15°52 | 26°18 | 29°37 | 8°17 | 6°11 | 25°43 | 16°40 | 6°35 | 6°38 | 18°48 | 21°13 | T 29 |
| F 30 | 20 30 2 | 6°32'46 | 23°29 | 3°47 | 17° 1 | 26° 2 | 29°41 | 8°24 | 6° 9 | 25°42 | 16°41 | 6°D35 | 6°35 | 18°54 | 21°14 | F 30 |
| S 31 | 20 33 59 | 7 Ω 30′15 | 8922 | 4 m) 48 | 18 M)10 | 25 る 47 | 29 Y 45 | 8 m /31 | 6 ප 7 | 25 × 741 | 16 Ⅱ 42 | 6≈35 | 6≈31 | 19 ට 1 | 21 M 15 | S 31 |

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| S 1 | 20 37 55 | 8 Ω 27'44 | 239525 | 5 M 47 | 19 m /18 | 25°R33 | 29 Υ 49 | 8 m /37 | 6°R 5 | 25°R39 | 16 Ⅱ 43 | 6≈35 | 6≈28 | 19る8 | 21 M .15 | S 1 |
| M 2 | 20 41 52 | 9°25'15 | 8 Ω 32 | 6°43 | 20°27 | 25 궁 18 | 29°53 | 8°44 | 6 ප 3 | 25 ₹ 38 | 16°44 | 6°R35 | 6°25 | 19°14 | 21°16 | M 2 |
| T 3 | 20 45 48 | 10°22'46 | 23°32 | 7°36 | 21°36 | 25° 5 | 29°56 | 8°51 | 6° 1 | 25°37 | 16°45 | 6°35 | 6°22 | 19°21 | 21°18 | T 3 |
| W 4 | 20 49 45 | 11°20'19 | 8 m 18 | 8°26 | 22°44 | 24°51 | 29°59 | 8°58 | 5°59 | 25°36 | 16°46 | 6°35 | 6°19 | 19°28 | 21°19 | W 4 |
| T 5 | 20 53 42 | 12°17'52 | 22°43 | 9°12 | 23°53 | 24°39 | 0 8 2 | 9° 5 | 5°57 | 25°35 | 16°47 | 6°34 | 6°16 | 19°34 | 21°20 | T 5 |
| F 6 | 20 57 38 | 13°15'26 | 6 ≏ 42 | 9°55 | 25° 1 | 24°27 | 0° 5 | 9°12 | 5°56 | 25°34 | 16°48 | 6°34 | 6°12 | 19°41 | 21°22 | F 6 |
| S 7 | 21 1 35 | 14°13'02 | 20°15 | 10°34 | 26° 9 | 24°15 | 0° 8 | 9°19 | 5°54 | 25°33 | 16°49 | 6°33 | 6° 9 | 19°48 | 21°23 | S 7 |
| S 8 | 21 5 31 | 15°10'38 | 3 M 23 | 11°10 | 27°17 | 24° 4 | 0°10 | 9°26 | 5°52 | 25°32 | 16°49 | 6°32 | 6° 6 | 19°54 | 21°25 | S 8 |
| M 9 | 21 9 28 | 16° 8'15 | 16° 6 | 11°41 | 28°25 | 23°54 | 0°13 | 9°34 | 5°51 | 25°32 | 16°50 | 6°D32 | 6° 3 | 20° 1 | 21°26 | M 9 |
| T 10 | 21 13 24 | 17° 5'53 | 28°30 | 12° 8 | 29°33 | 23°44 | 0°15 | 9°41 | 5°49 | 25°31 | 16°51 | 6°32 | 6° 0 | 20° 8 | 21°28 | T 10 |
| W11 | 21 17 21 | 18° 3'33 | 10 ₹ 39 | 12°31 | 0 ჲ 41 | 23°36 | 0°17 | 9°48 | 5°47 | 25°30 | 16°52 | 6°33 | 5°57 | 20°14 | 21°30 | W11 |
| T 12 | 21 21 17 | 19° 1'13 | 22°37 | 12°49 | 1°48 | 23°28 | 0°18 | 9°55 | 5°46 | 25°29 | 16°53 | 6°34 | 5°53 | 20°21 | 21°32 | T 12 |
| F 13 | 21 25 14 | 19°58'55 | 4 ⋜ 28 | 13° 2 | 2°56 | 23°20 | 0°20 | 10° 2 | 5°44 | 25°28 | 16°53 | 6°35 | 5°50 | 20°28 | 21°34 | F 13 |
| S 14 | 21 29 11 | 20°56'37 | 16°16 | 13° 9 | 4° 3 | 23°14 | 0°21 | 10°10 | 5°43 | 25°28 | 16°54 | 6°36 | 5°47 | 20°34 | 21°37 | S 14 |
| S 15 | 21 33 7 | 21°54'21 | 28° 5 | 13°R12 | 5°10 | 23° 8 | 0°22 | 10°17 | 5°41 | 25°27 | 16°55 | 6°37 | 5°44 | 20°41 | 21°39 | S 15 |
| M16 | 21 37 4 | 22°52'06 | 9 ≈ 57 | 13° 8 | 6°17 | 23° 3 | 0°23 | 10°24 | 5°40 | 25°26 | 16°55 | 6°R37 | 5°41 | 20°47 | 21°41 | M16 |
| T 17 | 21 41 0 | 23°49'52 | 21°55 | 13° 0 | 7°24 | 22°59 | 0°24 | 10°31 | 5°39 | 25°25 | 16°56 | 6°37 | 5°37 | 20°54 | 21°44 | T 17 |
| W18 | 21 44 57 | 24°47'40 | 4) € 2 | 12°45 | 8°31 | 22°55 | 0°24 | 10°39 | 5°37 | 25°25 | 16°57 | 6°35 | 5°34 | 21° 1 | 21°46 | W18 |
| T 19 | 21 48 53 | 25°45'30 | 16°18 | 12°24 | 9°37 | 22°53 | 0°25 | 10°46 | 5°36 | 25°24 | 16°57 | 6°33 | 5°31 | 21° 7 | 21°49 | T 19 |
| F 20 | 21 52 50 | 26°43'20 | 28°46 | 11°58 | 10°44 | 22°51 | 0°R25 | 10°53 | 5°35 | 25°24 | 16°58 | 6°30 | 5°28 | 21°14 | 21°52 | F 20 |
| S 21 | 21 56 46 | 27°41'13 | 11 Y 27 | 11°25 | 11°50 | 22°50 | 0°25 | 11° 1 | 5°34 | 25°23 | 16°58 | 6°27 | 5°25 | 21°21 | 21°55 | S 21 |
| S 22 | 22 0 43 | 28°39'07 | 24°21 | 10°48 | 12°56 | 22°D49 | 0°25 | 11°8 | 5°32 | 25°23 | 16°59 | 6°24 | 5°22 | 21°27 | 21°58 | S 22 |
| M23 | 22 4 39 | 29°37'03 | 7 8 31 | 10° 5 | 14° 2 | 22°50 | 0°24 | 11°16 | 5°31 | 25°22 | 17° 0 | 6°21 | 5°18 | 21°34 | 22° 1 | M23 |
| T 24 | 22 8 36 | 0 m 35'01 | 20°57 | 9°18 | 15° 8 | 22°51 | 0°23 | 11°23 | 5°30 | 25°22 | 17° 0 | 6°20 | 5°15 | 21°41 | 22° 4 | T 24 |
| W25 | 22 12 33 | 1°33'01 | 4∏40 | 8°27 | 16°14 | 22°54 | 0°23 | 11°31 | 5°29 | 25°21 | 17° 1 | 6°D20 | 5°12 | 21°47 | 22° 7 | W25 |
| T 26 | 22 16 29 | 2°31'03 | 18°41 | 7°33 | 17°19 | 22°57 | 0°22 | 11°38 | 5°28 | 25°21 | 17° 1 | 6°20 | 5° 9 | 21°54 | 22°11 | T 26 |
| F 27 | 22 20 26 | 3°29'07 | 2959 | 6°36 | 18°24 | 23° 1 | 0°20 | 11°46 | 5°27 | 25°20 | 17° 2 | 6°22 | 5° 6 | 22° 1 | 22°14 | F 27 |
| S 28 | 22 24 22 | 4°27'13 | 17°31 | 5°39 | 19°29 | 23° 5 | 0°19 | 11°53 | 5°27 | 25°20 | 17° 2 | 6°23 | 5° 3 | 22° 7 | 22°17 | S 28 |
| S 29 | 22 28 19 | 5°25'21 | 2 Ω 15 | 4°42 | 20°34 | 23°11 | 0°17 | 12° 1 | 5°26 | 25°20 | 17° 2 | 6°R24 | 4°59 | 22°14 | 22°21 | S 29 |
| M30 | 22 32 15 | 6°23'31 | 17° 4 | 3°47 | 21°39 | 23°17 | 0°15 | 12° 8 | 5°25 | 25°20 | 17° 3 | 6°24 | 4°56 | 22°21 | 22°25 | M30 |
| T 31 | 22 36 12 | 7 m 21'42 | 1 m 52 | 2 m 54 | 22 ≏ 44 | 23 궁 24 | 0 8 13 | 12 M 16 | 5 궁 24 | 25 ∡ 19 | 17 II 3 | 6≈22 | 4≈53 | 22 궁 27 | 22 M 29 | T 31 |

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|--|--|--|--|--|---|---|--|---|--|--|--|---|--|---|---|--|
| W 1 T 2 F 3 S 4 | 22 40 8 22 44 5 22 48 2 22 51 58 | 8 Mp 19'55 9°18'10 10°16'26 11°14'45 | 16 m 30 0 2 53 14°54 28°30 | 2°R 5 1 m/21 0°44 0°13 | 23 \Omega 48 24°52 25°56 27° 0 | 23°40 23°50 24° 0 | 0°R11 0 8 8 0° 6 0° 3 | 12 m 23 12°31 12°38 12°46 | 5°R23 5 ♂ 23 5°22 5°22 | 25°R19 25 ∡ 19 25°19 25°19 | 17 II 4 17° 4 17° 4 17° 4 | 6°R19 6≈14 6° 9 6° 4 | 4≈50 4°47 4°43 4°40 | 22°34 22°41 22°47 22°54 | 22M32 22°36 22°40 22°44 | W 1 T 2 F 3 S 4 |
| S 5 M 6 T 7 W 8 T 9 F 10 S 11 | 22 55 55 22 59 51 23 3 48 23 7 44 23 11 41 23 15 37 23 19 34 | 12°13'04 13°11'26 14° 9'49 15° 8'13 16° 6'40 17° 5'07 18° 3'37 | 11 M 41 24°28 6 ₹ 54 19°3 0 ₹ 59 12°49 24°37 | 29 Q 51 29°36 29°D31 29°35 29°48 0 Q 11 0°42 | 28° 3 29° 6 0M. 9 1°12 2°14 3°16 4°18 | 24°11 24°22 24°35 24°48 25° 2 25°16 25°31 | 29 Y 59 29°57 29°53 29°50 29°46 29°42 29°38 | 12°53 13° 1 13° 8 13°16 13°23 13°31 13°38 | 5°21 5°21 5°20 5°20 5°20 5°19 5°19 | 25°19 25°19 25°D19 25°19 25°19 25°19 25°19 | 17° 5 17° 5 17° 5 17° 5 17° 6 17° 6 | 5°59 5°56 5°54 5°D54 5°55 5°56 5°58 | 4°37 4°34 4°31 4°28 4°24 4°21 4°18 | 23° 0 23° 7 23°14 23°20 23°27 23°34 23°40 | 22°49 22°53 22°57 23° 2 23° 6 23°11 23°16 | S 5 M 6 T 7 W 8 T 9 F 10 S 11 |
| S 12 M13 T 14 W15 T 16 F 17 S 18 | 23 23 31 23 27 27 23 31 24 23 35 20 23 39 17 23 43 13 23 47 10 | 19° 2'08 20° 0'41 20°59'16 21°57'52 22°56'31 23°55'11 24°53'53 | 6≈28 18°25 0¥32 12°52 25°25 8¥12 21°13 | 1°22 2°11 3° 8 4°11 5°22 6°39 8° 1 | 5°20 6°21 7°22 8°23 9°23 10°23 11°23 | 25°47 26° 3 26°20 26°38 26°56 27°15 27°35 | 29°33 29°29 29°24 29°19 29°14 29° 9 29° 3 | 13°46 13°53 14° 1 14° 8 14°16 14°23 14°31 | 5°19 5°19 5°19 5°19 5°19 5°19 5°19 | 25°19 25°19 25°19 25°20 25°20 25°20 25°20 25°21 | 17° 6 17° 6 17° 6 17° 6 17° 6 17°R 6 17° 6 | 5°R59 5°58 5°55 5°50 5°43 5°35 5°26 | 4°15 4°12 4° 8 4° 5 4° 2 3°59 3°56 | 23°47 23°54 24° 0 24° 7 24°14 24°20 24°27 | 23°20 23°25 23°30 23°35 23°40 23°45 23°50 | S 12 M13 T 14 W15 T 16 F 17 S 18 |
| S 19 M20 T 21 W22 T 23 F 24 S 25 | 23 51 6 23 55 3 23 59 0 0 2 56 0 6 53 0 10 49 0 14 46 | 25°52'38 26°51'25 27°50'14 28°49'05 29°47'59 0£46'55 1°45'54 | 4827 17°53 1¶31 15°18 29°15 13©21 27°35 | 9°28 10°59 12°34 14°12 15°52 17°35 19°19 | 12°22 13°21 14°19 15°17 16°15 17°12 18° 9 | 27°55 28°15 28°36 28°58 29°20 29°43 0≈ 6 | 28°58 28°52 28°46 28°40 28°34 28°28 28°22 | 14°38 14°46 14°53 15° 1 15° 8 15°15 15°23 | 5°19 5°20 5°20 5°20 5°21 5°21 5°21 | 25°21 25°21 25°22 25°22 25°23 25°23 25°24 | 17° 6 17° 6 17° 6 17° 6 17° 6 17° 6 | 5°18 5°11 5° 6 5° 3 5°D 2 5° 2 5° 2 | 3°53 3°49 3°46 3°43 3°40 3°37 3°34 | 24°33 24°40 24°47 24°53 25° 0 25° 7 25°13 | 23°56 24° 1 24° 6 24°12 24°17 24°23 24°29 | S 19 M20 T 21 W22 T 23 F 24 S 25 |
| S 26 M27 T 28 W29 T 30 | 0 18 42 0 22 39 0 26 35 0 30 32 0 34 29 | 2°44'54 3°43'57 4°43'02 5°42'10 6 Ω 41'19 | 11 Q 56 26°20 10 m 44 25° 2 9 n 9 | 21° 4 22°51 24°37 26°25 28 Mp 12 | 19° 5 20° 1 20°56 21°51 22M45 | 0°29 0°54 1°18 1°43 2≈ 9 | 28°15 28° 8 28° 2 27°55 27 Y 48 | 15°30 15°37 15°45 15°52 15\(\pi\)59 | 5°22 5°23 5°24 5°24 5 ♂ 25 | 25°25 25°25 25°26 25°27 25 ₹ 27 | 17° 5 17° 5 17° 5 17° 5 17 II 4 | 5° 3 5° 1 4°57 4°50 4≈41 | 3°30 3°27 3°24 3°21 3≈18 | 25°20 25°27 25°33 25°40 25♂47 | 24°34 24°40 24°46 24°52 24 M 58 | S 26 M27 T 28 W29 T 30 |

Delta T = 39.37 sec

Greg. Calendar

OCTOBER 1655 GC 00:00 UT

| Day | Sid.t | 0 |)) | φ | Ŷ | o ⁷ | 4 | ħ |)ұ(| ¥ | 5 | R | Ω | ţ | g | Day |
|------|---------|------------------|-----------------|----------------|----------------|----------------|----------------|-----------------|---------------|----------------|----------------|-------|---------------|----------------|----------------|------|
| F 1 | 0 38 25 | 7 △ 40'31 | 23 <u>₽</u> 0 | 29 m 59 | 23M39 | 2≈34 | 27°R41 | 16 M) 6 | 5 궁 26 | 25 × 28 | 17°R 4 | 4°R30 | 3≈14 | 25 ප 53 | 25M 4 | F 1 |
| S 2 | 0 42 22 | 8°39'44 | 6 M .31 | 1 ≏ 46 | 24°32 | 3° 1 | 27 Y 33 | 16°13 | 5°27 | 25°29 | 17 I 4 | 4≈20 | 3°11 | 26° 0 | 25°10 | S 2 |
| S 3 | 0 46 18 | 9°38'59 | 19°39 | 3°33 | 25°25 | 3°28 | 27°26 | 16°21 | 5°28 | 25°30 | 17° 3 | 4°10 | 3° 8 | 26° 7 | 25°16 | S 3 |
| M 4 | 0 50 15 | 10°38'17 | 2 ₹ 26 | 5°20 | 26°17 | 3°55 | 27°18 | 16°28 | 5°29 | 25°31 | 17° 3 | 4° 2 | 3° 5 | 26°13 | 25°22 | M 4 |
| T 5 | 0 54 11 | 11°37'36 | 14°52 | 7° 6 | 27° 8 | 4°22 | 27°11 | 16°35 | 5°30 | 25°32 | 17° 3 | 3°56 | 3° 2 | 26°20 | 25°28 | T 5 |
| W 6 | 0 58 8 | 12°36'57 | 27° 1 | 8°51 | 27°59 | 4°50 | 27° 3 | 16°42 | 5°31 | 25°32 | 17° 2 | 3°53 | 2°59 | 26°26 | 25°35 | W 6 |
| T 7 | 1 2 4 | 13°36'20 | 8 궁 58 | 10°36 | 28°49 | 5°19 | 26°56 | 16°49 | 5°32 | 25°33 | 17° 2 | 3°D51 | 2°55 | 26°33 | 25°41 | T 7 |
| F 8 | 1 6 1 | 14°35'45 | 20°47 | 12°20 | 29°38 | 5°47 | 26°48 | 16°56 | 5°33 | 25°34 | 17° 1 | 3°51 | 2°52 | 26°40 | 25°48 | F 8 |
| S 9 | 1 9 58 | 15°35'11 | 2 ≈ 35 | 14° 4 | 0 ≯ 26 | 6°16 | 26°40 | 17° 3 | 5°34 | 25°35 | 17° 1 | 3°R52 | 2°49 | 26°46 | 25°54 | S 9 |
| S 10 | 1 13 54 | 16°34'39 | 14°27 | 15°47 | 1°14 | 6°46 | 26°32 | 17°10 | 5°36 | 25°37 | 17° 1 | 3°51 | 2°46 | 26°53 | 26° 1 | S 10 |
| M11 | 1 17 51 | 17°34'09 | 26°28 | 17°29 | 2° 0 | 7°16 | 26°24 | 17°17 | 5°37 | 25°38 | 17° 0 | 3°49 | 2°43 | 27° 0 | 26° 7 | M11 |
| T 12 | 1 21 47 | 18°33'41 | 8) (42 | 19°11 | 2°46 | 7°46 | 26°16 | 17°23 | 5°38 | 25°39 | 17° 0 | 3°44 | 2°40 | 27° 6 | 26°14 | T 12 |
| W13 | 1 25 44 | 19°33'14 | 21°12 | 20°52 | 3°31 | 8°16 | 26° 8 | 17°30 | 5°40 | 25°40 | 16°59 | 3°37 | 2°36 | 27°13 | 26°20 | W13 |
| T 14 | 1 29 40 | 20°32'50 | 4 Υ 1 | 22°32 | 4°15 | 8°47 | 26° 0 | 17°37 | 5°41 | 25°41 | 16°58 | 3°27 | 2°33 | 27°20 | 26°27 | T 14 |
| F 15 | 1 33 37 | 21°32'27 | 17° 8 | 24°12 | 4°58 | 9°18 | 25°52 | 17°44 | 5°43 | 25°42 | 16°58 | 3°15 | 2°30 | 27°26 | 26°34 | F 15 |
| S 16 | 1 37 33 | 22°32'07 | 0 8 33 | 25°51 | 5°40 | 9°49 | 25°44 | 17°50 | 5°44 | 25°43 | 16°57 | 3° 2 | 2°27 | 27°33 | 26°40 | S 16 |
| S 17 | 1 41 30 | 23°31'48 | 14°13 | 27°29 | 6°21 | 10°21 | 25°36 | 17°57 | 5°46 | 25°45 | 16°57 | 2°50 | 2°24 | 27°40 | 26°47 | S 17 |
| M18 | 1 45 26 | 24°31'32 | 28° 4 | 29° 7 | 7° 1 | 10°52 | 25°28 | 18° 4 | 5°47 | 25°46 | 16°56 | 2°40 | 2°20 | 27°46 | 26°54 | M18 |
| T 19 | 1 49 23 | 25°31'18 | 12 II 3 | 0 M .44 | 7°40 | 11°24 | 25°20 | 18°10 | 5°49 | 25°47 | 16°55 | 2°31 | 2°17 | 27°53 | 27° 1 | T 19 |
| W20 | 1 53 20 | 26°31'06 | 26° 6 | 2°21 | 8°18 | 11°57 | 25°11 | 18°17 | 5°51 | 25°49 | 16°55 | 2°26 | 2°14 | 28° 0 | 27° 8 | W20 |
| T 21 | 1 57 16 | 27°30'56 | 10911 | 3°57 | 8°54 | 12°29 | 25° 3 | 18°23 | 5°53 | 25°50 | 16°54 | 2°24 | 2°11 | 28° 6 | 27°15 | T 21 |
| F 22 | 2 1 13 | 28°30'49 | 24°17 | 5°33 | 9°29 | 13° 2 | 24°55 | 18°29 | 5°55 | 25°51 | 16°53 | 2°23 | 2° 8 | 28°13 | 27°22 | F 22 |
| S 23 | 2 5 9 | 29°30'44 | 8 Ω 22 | 7° 8 | 10° 3 | 13°35 | 24°47 | 18°36 | 5°56 | 25°53 | 16°53 | 2°23 | 2° 5 | 28°19 | 27°29 | S 23 |
| S 24 | 2 9 6 | 0MJ30'41 | 22°26 | 8°42 | 10°35 | 14° 9 | 24°39 | 18°42 | 5°58 | 25°54 | 16°52 | 2°22 | 2° 1 | 28°26 | 27°36 | S 24 |
| M25 | 2 13 2 | 1°30'40 | 6 m 28 | 10°16 | 11° 6 | 14°42 | 24°31 | 18°48 | 6° 0 | 25°56 | 16°51 | 2°19 | 1°58 | 28°33 | 27°43 | M25 |
| T 26 | 2 16 59 | 2°30'41 | 20°26 | 11°50 | 11°35 | 15°16 | 24°23 | 18°54 | 6° 2 | 25°57 | 16°50 | 2°14 | 1°55 | 28°39 | 27°50 | T 26 |
| W27 | 2 20 55 | 3°30'45 | 4 Ω 18 | 13°23 | 12° 3 | 15°50 | 24°15 | 19° 0 | 6° 4 | 25°59 | 16°49 | 2° 5 | 1°52 | 28°46 | 27°57 | W27 |
| T 28 | 2 24 52 | 4°30'50 | 18° 0 | 14°56 | 12°29 | 16°25 | 24° 7 | 19° 7 | 6° 6 | 26° 0 | 16°49 | 1°54 | 1°49 | 28°53 | 28° 5 | T 28 |
| F 29 | 2 28 49 | 5°30'58 | 1 M .30 | 16°28 | 12°54 | 16°59 | 23°59 | 19°13 | 6° 9 | 26° 2 | 16°48 | 1°41 | 1°45 | 28°59 | 28°12 | F 29 |
| S 30 | 2 32 45 | 6°31'07 | 14°45 | 18° 0 | 13°16 | 17°34 | 23°52 | 19°18 | 6°11 | 26° 4 | 16°47 | 1°28 | 1°42 | 29° 6 | 28°19 | S 30 |
| S 31 | 2 36 42 | 7 M 31'18 | 27 M 43 | 19 M 32 | 13 × 37 | 18 ≈ 9 | 23 Y 44 | 19 10 24 | 6 ට 13 | 26 ₹ 5 | 16 Ⅱ 46 | 1≈15 | 1 ≈ 39 | 29 궁 13 | 28 M 26 | S 31 |

Delta T = 39.31 sec

NOVEMBER 1655 GC 00:00 UT

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|------|---------|--------------------|-----------------|----------------|-----------------|---------------|----------------|----------------|---------------|---------------|--------|----------------|------|----------------|----------------|------|
| M 1 | 2 40 38 | 8ML31'31 | 10 ∡ 122 | 21M 3 | 13 ∡ 756 | 18≈44 | 23°R36 | 19 m 30 | 6 ප 15 | 26 ₹ 7 | 16°R45 | 1°R 4 | 1≈36 | 29 궁 19 | 28 M 34 | M 1 |
| T 2 | 2 44 35 | 9°31'46 | 22°44 | 22°33 | 14°13 | 19°19 | 23 Y 29 | 19°36 | 6°18 | 26° 9 | 16∏44 | 0≈56 | 1°33 | 29°26 | 28°41 | T 2 |
| W 3 | 2 48 31 | 10°32'02 | 4 궁 51 | 24° 4 | 14°28 | 19°55 | 23°21 | 19°42 | 6°20 | 26°10 | 16°43 | 0°51 | 1°30 | 29°33 | 28°48 | W 3 |
| T 4 | 2 52 28 | 11°32'20 | 16°47 | 25°33 | 14°41 | 20°30 | 23°14 | 19°47 | 6°22 | 26°12 | 16°43 | 0°49 | 1°26 | 29°39 | 28°56 | T 4 |
| F 5 | 2 56 24 | 12°32'39 | 28°36 | 27° 3 | 14°52 | 21° 6 | 23° 7 | 19°53 | 6°25 | 26°14 | 16°42 | 0°D48 | 1°23 | 29°46 | 29° 3 | F 5 |
| S 6 | 3 0 21 | 13°33'00 | 10≈23 | 28°32 | 15° 1 | 21°42 | 23° 0 | 19°58 | 6°27 | 26°16 | 16°41 | 0°R48 | 1°20 | 29°52 | 29°11 | S 6 |
| S 7 | 3 4 18 | 14°33'22 | 22°14 | 0 % 0 | 15° 7 | 22°18 | 22°53 | 20° 4 | 6°30 | 26°17 | 16°40 | 0°48 | 1°17 | 29°59 | 29°18 | S 7 |
| M 8 | 3 8 14 | 15°33'45 | 4) (15 | 1°28 | 15°11 | 22°55 | 22°46 | 20° 9 | 6°32 | 26°19 | 16°39 | 0°46 | 1°14 | 0≈ 6 | 29°26 | M 8 |
| T 9 | 3 12 11 | 16°34'10 | 16°31 | 2°56 | 15°R13 | 23°31 | 22°39 | 20°14 | 6°35 | 26°21 | 16°38 | 0°42 | 1°11 | 0°12 | 29°33 | T 9 |
| W10 | 3 16 7 | 17°34'36 | 29° 5 | 4°23 | 15°12 | 24° 8 | 22°32 | 20°19 | 6°37 | 26°23 | 16°37 | 0°36 | 1° 7 | 0°19 | 29°40 | W10 |
| T 11 | 3 20 4 | 18°35'04 | 12 ° 2 | 5°49 | 15° 9 | 24°44 | 22°26 | 20°25 | 6°40 | 26°25 | 16°36 | 0°27 | 1° 4 | 0°26 | 29°48 | T 11 |
| F 12 | 3 24 0 | 19°35'33 | 25°23 | 7°15 | 15° 4 | 25°21 | 22°19 | 20°30 | 6°43 | 26°27 | 16°35 | 0°16 | 1° 1 | 0°32 | 29°55 | F 12 |
| S 13 | 3 27 57 | 20°36'03 | 9 8 6 | 8°40 | 14°56 | 25°58 | 22°13 | 20°35 | 6°46 | 26°28 | 16°34 | 0° 5 | 0°58 | 0°39 | 0 ≯ 3 | S 13 |
| S 14 | 3 31 53 | 21°36'35 | 23° 9 | 10° 5 | 14°45 | 26°36 | 22° 7 | 20°39 | 6°48 | 26°30 | 16°33 | 29 궁 53 | 0°55 | 0°46 | 0°11 | S 14 |
| M15 | 3 35 50 | 22°37'09 | 7 Ⅲ 27 | 11°28 | 14°32 | 27°13 | 22° 1 | 20°44 | 6°51 | 26°32 | 16°32 | 29°43 | 0°51 | 0°52 | 0°18 | M15 |
| T 16 | 3 39 47 | 23°37'44 | 21°53 | 12°51 | 14°17 | 27°50 | 21°55 | 20°49 | 6°54 | 26°34 | 16°31 | 29°36 | 0°48 | 0°59 | 0°26 | T 16 |
| W17 | 3 43 43 | 24°38'21 | 69522 | 14°12 | 13°59 | 28°28 | 21°49 | 20°54 | 6°57 | 26°36 | 16°30 | 29°31 | 0°45 | 1° 6 | 0°33 | W17 |
| T 18 | 3 47 40 | 25°39'00 | 20°49 | 15°33 | 13°39 | 29° 6 | 21°44 | 20°58 | 7° 0 | 26°38 | 16°29 | 29°29 | 0°42 | 1°12 | 0°41 | T 18 |
| F 19 | 3 51 36 | 26°39'40 | 5 Ω 8 | 16°52 | 13°17 | 29°43 | 21°39 | 21° 3 | 7° 3 | 26°40 | 16°27 | 29°D29 | 0°39 | 1°19 | 0°48 | F 19 |
| S 20 | 3 55 33 | 27°40'22 | 19°19 | 18° 9 | 12°52 | 0 ∺ 21 | 21°33 | 21° 7 | 7° 5 | 26°42 | 16°26 | 29°30 | 0°36 | 1°25 | 0°56 | S 20 |
| S 21 | 3 59 29 | 28°41'05 | 3 m 19 | 19°25 | 12°26 | 0°59 | 21°28 | 21°11 | 7°8 | 26°44 | 16°25 | 29°R30 | 0°32 | 1°32 | 1° 3 | S 21 |
| M22 | 4 3 26 | 29°41'50 | 17° 9 | 20°39 | 11°57 | 1°37 | 21°24 | 21°16 | 7°11 | 26°46 | 16°24 | 29°28 | 0°29 | 1°39 | 1°11 | M22 |
| T 23 | 4 7 23 | 0 ҂ 42'37 | 0 <u>ჲ</u> 48 | 21°50 | 11°27 | 2°16 | 21°19 | 21°20 | 7°14 | 26°49 | 16°23 | 29°24 | 0°26 | 1°45 | 1°19 | T 23 |
| W24 | 4 11 19 | 1°43'25 | 14°17 | 22°59 | 10°56 | 2°54 | 21°14 | 21°24 | 7°18 | 26°51 | 16°22 | 29°18 | 0°23 | 1°52 | 1°26 | W24 |
| T 25 | 4 15 16 | 2°44'14 | 27°34 | 24° 4 | 10°23 | 3°32 | 21°10 | 21°28 | 7°21 | 26°53 | 16°21 | 29°10 | 0°20 | 1°59 | 1°34 | T 25 |
| F 26 | 4 19 12 | 3°45'05 | 10 M 40 | 25° 7 | 9°49 | 4°11 | 21° 6 | 21°32 | 7°24 | 26°55 | 16°20 | 29° 0 | 0°17 | 2° 5 | 1°41 | F 26 |
| S 27 | 4 23 9 | 4°45'57 | 23°33 | 26° 5 | 9°14 | 4°49 | 21° 2 | 21°36 | 7°27 | 26°57 | 16°19 | 28°49 | 0°13 | 2°12 | 1°49 | S 27 |
| S 28 | 4 27 5 | 5°46'51 | 6 ₮ 12 | 26°59 | 8°38 | 5°28 | 20°58 | 21°39 | 7°30 | 26°59 | 16°17 | 28°39 | 0°10 | 2°19 | 1°56 | S 28 |
| M29 | 4 31 2 | 6°47'46 | 18°38 | 27°47 | 8° 2 | 6° 7 | 20°55 | 21°43 | 7°33 | 27° 1 | 16°16 | 28°31 | 0° 7 | 2°25 | 2° 4 | M29 |
| T 30 | 4 34 58 | 7 ,₹ 148'41 | 0 ප 51 | 28 ₹ 30 | 7 ,₹ 25 | 6) 46 | 20 Y 52 | 21 Mp 46 | 7 云 36 | 27 ₹ 3 | 16耳15 | 28 ට 25 | 0≈ 4 | 2≈32 | 2 √ 11 | T 30 |

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Greg. Calendar

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|--------------|--------------------|-----------------------------|-------------------------|--------------------------|------------------------|-------------------------|-------------------------|--------------------------|-----------------------|-------------------------|-------------------------|--------------------------|-------------------------|-----------------------|------------------------|--------------|
| W 1 | 4 38 55 | 8 ∡ 149'38 | 12 る 53 | 29 ∡ 6 | 6°R49 | 7) €25 | 20°R48 | 21 m 50 | 7 云 40 | 27 ₹ 6 | 16°R14 | 28°R21 | 0≈ 1 | 2≈39 | 2 ₹ 19 | W 1 |
| T 2 | 4 42 52 | 9°50'36 | 24°46 | 29°35 | 6 ₹ 13 | 8° 4 | 20 Υ 45 | 21°53 | 7°43 | 27° 8 | 16 I I13 | 28°D19 | 29 궁 57 | 2°45 | 2°27 | T 2 |
| F 3 | 4 46 48 | 10°51'34 | 6≈33 | 29°56 | 5°38 | 8°43 | 20°43 | 21°56 | 7°46 | 27°10 | 16°12 | 28중20 | 29°54 | 2°52 | 2°34 | F 3 |
| S 4 | 4 50 45 | 11°52'33 | 18°19 | 0중 7 | 5° 3 | 9°22 | 20°40 | 22° 0 | 7°49 | 27°12 | 16°10 | 28°21 | 29°51 | 2°59 | 2°42 | S 4 |
| S 5 | 4 54 41 | 12°53'32 | 0 ∺ 9 | 0°R 8 | 4°29 | 10° 1 | 20°38 | 22° 3 | 7°53 | 27°14 | 16° 9 | 28°22 | 29°48 | 3° 5 | 2°49 | S 5 |
| M 6 T 7 | 4 58 38 5 2 34 | 13°54'33 14°55'33 | 12° 8 24°21 | 29 × 759 29°38 | 3°57 3°26 | 10°41 11°20 | 20°36 20°34 | 22° 5 22° 8 | 7°56 7°59 | 27°17 27°19 | 16° 8 16° 7 | 28°R23 28°23 | 29°45 29°42 | 3°12 3°18 | 2°57 3° 4 | M 6 T 7 |
| W 8 | 5 6 31 | 15°56'35 | 6 Υ 53 | 29° 6 | 2°56 | 11°59 | 20°32 | 22°11 | 8° 3 | 27°21 | 16° 6 | 28°20 | 29°38 | 3°25 | 3°11 | W 8 |
| T 9 | 5 10 27 | 16°57'36 | 19°49 | 28°23 | 2°29 | 12°39 | 20°31 | 22°14 | 8° 6 | 27°23 | 16° 5 | 28°16 | 29°35 | 3°32 | 3°19 | T 9 |
| F 10 | 5 14 24 | 17°58'39 | 3 8 11 | 27°28 | 2° 3 | 13°18 | 20°29 | 22°16 | 8°10 | 27°26 | 16° 3 | 28°11 | 29°32 | 3°38 | 3°26 | F 10 |
| S 11 | 5 18 21 | 18°59'42 | 17° 0 | 26°24 | 1°40 | 13°58 | 20°28 | 22°19 | 8°13 | 27°28 | 16° 2 | 28° 4 | 29°29 | 3°45 | 3°34 | S 11 |
| S 12 | 5 22 17 | 20° 0'45 | 1 Ⅱ 14 | 25°12 | 1°18 | 14°38 | 20°27 | 22°21 | 8°17 | 27°30 | 16° 1 | 27°58 | 29°26 | 3°52 | 3°41 | S 12 |
| M13 | 5 26 14 | 21° 1'49 | 15°49 | 23°53 | 0°59 | 15°17 | 20°27 | 22°23 | 8°20 | 27°32 | 16° 0 | 27°52 | 29°23 | 3°58 | 3°48 | M13 |
| T 14 | 5 30 10 | 22° 2'54 | 0938 | 22°31 | 0°43 | 15°57 | 20°26 | 22°25 | 8°23 | 27°35 | 15°59 | 27°48 | 29°19 | 4° 5 | 3°56 | T 14 |
| W15 T 16 | 5 34 7 5 38 3 | 23° 3'59 24° 5'05 | 15°33 0 Ω 26 | 21° 8 19°47 | 0°29 0°17 | 16°37 17°17 | 20°26 20°D26 | 22°27 22°29 | 8°27 8°30 | 27°37 27°39 | 15°58 15°56 | 27°46 27°D45 | 29°16 29°13 | 4°12 4°18 | 4° 3 4°10 | W15 T 16 |
| F 17 | 5 42 0 | 25° 6'11 | 15°10 | 18°31 | 0° 8 | 17°57 | 20°26 | 22°31 | 8°34 | 27°41 | 15°55 | 27°46 | 29°10 | 4°25 | 4°17 | F 17 |
| S 18 | 5 45 56 | 26° 7'18 | 29°39 | 17°22 | 0° 1 | 18°37 | 20°27 | 22°33 | 8°37 | 27°44 | 15°54 | 27°48 | 29° 7 | 4°32 | 4°24 | S 18 |
| S 19 | 5 49 53 | 27° 8'26 | 13 m 50 | 16°21 | 29 M 57 | 19°17 | 20°27 | 22°34 | 8°41 | 27°46 | 15°53 | 27°49 | 29° 3 | 4°38 | 4°32 | S 19 |
| M20 | 5 53 50 | 28° 9'34 | 27°42 | 15°30 | 29°D55 | 19°57 | 20°28 | 22°36 | 8°44 | 27°48 | 15°52 | 27°R50 | 29° 0 | 4°45 | 4°39 | M20 |
| T 21 | 5 57 46 | 29°10'43 | 11 ≏ 16 | 14°50 | 29°56 | 20°37 | 20°29 | 22°37 | 8°48 | 27°50 | 15°51 | 27°49 | 28°57 | 4°52 | 4°46 | T 21 |
| W22 T 23 | 6 1 43 6 5 39 | 0 る 11'53 1°13'03 | 24°32 7 M L32 | 14°20 14° 1 | 29°59 0 ×7 5 | 21°17 21°57 | 20°30 20°32 | 22°39 22°40 | 8°52 8°55 | 27°53 27°55 | 15°50 15°48 | 27°47 27°44 | 28°54 28°51 | 4°58 5° 5 | 4°53 5° 0 | W22 T 23 |
| F 24 | 6 9 36 | 2°14'14 | 20°17 | 13°D52 | 0°13 | 21°37 22°37 | 20°32 20°33 | 22°40 22°41 | 8°59 | 27°57 | 15°48 | 27°44 27°40 | 28°48 | 5°11 | 5° 7 | F 24 |
| S 25 | 6 13 32 | 3°15'25 | 2×750 | 13°52 | 0°23 | 23°17 | 20°35 | 22°42 | 9° 2 | 28° 0 | 15°46 | 27°35 | 28°44 | 5°18 | 5°14 | S 25 |
| S 26 | 6 17 29 | 4°16'37 | 15°11 | 14° 2 | 0°36 | 23°58 | 20°37 | 22°43 | 9° 6 | 28° 2 | 15°45 | 27°31 | 28°41 | 5°25 | 5°21 | S 26 |
| M27 | 6 21 25 | 5°17'48 | 27°21 | 14°19 | 0°50 | 24°38 | 20°39 | 22°43 | 9° 9 | 28° 4 | 15°44 | 27°28 | 28°38 | 5°31 | 5°28 | M27 |
| T 28 | 6 25 22 | 6°19'00 | 9 궁 23 | 14°45 | 1° 7 | 25°18 | 20°42 | 22°44 | 9°13 | 28° 6 | 15°43 | 27°26 | 28°35 | 5°38 | 5°35 | T 28 |
| W29 | 6 29 19 | 7°20'12 | 21°18 | 15°17 | 1°26 | 25°58 | 20°44 | 22°44 | 9°17 | 28° 9 | 15°42 | 27°25 | 28°32 | 5°45 | 5°41 | W29 |
| T 30 F 31 | 6 33 15 6 37 12 | 8°21'23 9 ろ 22'35 | 3≈ 7 14≈54 | 15°55 16 × 738 | 1°46 2 ×7 9 | 26°39 27) 19 | 20°47 20 ° 50 | 22°45 22 m)45 | 9°20 9 る 24 | 28°11 28 × 13 | 15°41 15 ∏ 40 | 27°D24 27 る 25 | 28°29 28 る 25 | 5°51 5 ≈ 58 | 5°48 5 ∡7 55 | T 30 F 31 |
| 1 31 | 03/12 | 9 0 22 33 | 14~54 | 10%.30 | 2 X . 9 | 4/1(19 | 20 1 30 | 45 JUL 45 | 9024 | 20X-13 | 1340 | 21023 | 20023 | <i>></i> ≈>>0 | 37.33 | 1 31 |

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JANUARY 1656 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)/(| ¥ | В | ß | Ω | Ç | o k | Day |
|------|---------|------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|---------------|---------------|------|
| S 1 | 6 41 8 | 10 ට 23'46 | 26≈41 | 17 × 726 | 2 ₹ 33 | 28 ∺ 0 | 20 Y 54 | 22 M 45 | 9 궁 27 | 28 × 15 | 15°R39 | 27 ප 27 | 28 중 22 | 6≈ 5 | 6 ₹ 2 | S 1 |
| S 2 | 6 45 5 | 11°24'57 | 8 ∺ 31 | 18°19 | 2°59 | 28°40 | 20°57 | 22°R45 | 9°31 | 28°18 | 15 Ⅲ 38 | 27°28 | 28°19 | 6°11 | 6° 8 | S 2 |
| M 3 | 6 49 1 | 12°26'07 | 20°30 | 19°15 | 3°27 | 29°20 | 21° 1 | 22°45 | 9°34 | 28°20 | 15°37 | 27°30 | 28°16 | 6°18 | 6°15 | M 3 |
| T 4 | 6 52 58 | 13°27'17 | 2 Υ 41 | 20°15 | 3°56 | 0 Υ 1 | 21° 4 | 22°45 | 9°38 | 28°22 | 15°36 | 27°31 | 28°13 | 6°25 | 6°21 | T 4 |
| W 5 | 6 56 55 | 14°28'27 | 15° 9 | 21°18 | 4°27 | 0°41 | 21° 8 | 22°45 | 9°42 | 28°24 | 15°35 | 27°R31 | 28° 9 | 6°31 | 6°28 | W 5 |
| T 6 | 7 0 51 | 15°29'35 | 27°58 | 22°24 | 5° 0 | 1°22 | 21°13 | 22°44 | 9°45 | 28°26 | 15°34 | 27°31 | 28° 6 | 6°38 | 6°34 | T 6 |
| F 7 | 7 4 48 | 16°30'44 | 11812 | 23°32 | 5°34 | 2° 2 | 21°17 | 22°44 | 9°49 | 28°29 | 15°33 | 27°30 | 28° 3 | 6°44 | 6°41 | F 7 |
| S 8 | 7 8 44 | 17°31'52 | 24°53 | 24°42 | 6° 9 | 2°43 | 21°22 | 22°43 | 9°52 | 28°31 | 15°32 | 27°29 | 28° 0 | 6°51 | 6°47 | S 8 |
| S 9 | 7 12 41 | 18°32'59 | 9 I I 3 | 25°55 | 6°46 | 3°23 | 21°26 | 22°43 | 9°56 | 28°33 | 15°31 | 27°27 | 27°57 | 6°58 | 6°53 | S 9 |
| M10 | 7 16 37 | 19°34'05 | 23°38 | 27° 9 | 7°24 | 4° 4 | 21°31 | 22°42 | 9°59 | 28°35 | 15°30 | 27°26 | 27°54 | 7° 4 | 6°59 | M10 |
| T 11 | 7 20 34 | 20°35'11 | 8933 | 28°24 | 8° 3 | 4°45 | 21°37 | 22°41 | 10° 3 | 28°37 | 15°29 | 27°26 | 27°50 | 7°11 | 7° 5 | T 11 |
| W12 | 7 24 30 | 21°36'17 | 23°42 | 2 <u>9</u> °42 | 8°44 | 5°25 | 21°42 | 22°40 | 10° 6 | 28°39 | 15°28 | 27°D25 | 27°47 | 7°18 | 7°12 | W12 |
| T 13 | 7 28 27 | 22°37'22 | 8 Ω 54 | 1る 0 | 9°26 | 6° 6 | 21°47 | 22°39 | 10°10 | 28°41 | 15°27 | 27°25 | 27°44 | 7°24 | 7°18 | T 13 |
| F 14 | 7 32 24 | 23°38'26 | 24° 0 | 2°20 | 10° 8 | 6°46 | 21°53 | 22°37 | 10°14 | 28°44 | 15°26 | 27°26 | 27°41 | 7°31 | 7°24 | F 14 |
| S 15 | 7 36 20 | 24°39'30 | 8 m 52 | 3°41 | 10°52 | 7°27 | 21°59 | 22°36 | 10°17 | 28°46 | 15°25 | 27°26 | 27°38 | 7°38 | 7°29 | S 15 |
| S 16 | 7 40 17 | 25°40'33 | 23°22 | 5° 3 | 11°37 | 8° 7 | 22° 5 | 22°35 | 10°21 | 28°48 | 15°24 | 27°26 | 27°35 | 7°44 | 7°35 | S 16 |
| M17 | 7 44 13 | 26°41'36 | 7 ≏ 29 | 6°26 | 12°23 | 8°48 | 22°11 | 22°33 | 10°24 | 28°50 | 15°23 | 27°26 | 27°31 | 7°51 | 7°41 | M17 |
| T 18 | 7 48 10 | 27°42'38 | 21°10 | 7°50 | 13°10 | 9°28 | 22°17 | 22°31 | 10°27 | 28°52 | 15°23 | 27°26 | 27°28 | 7°58 | 7°47 | T 18 |
| W19 | 7 52 6 | 28°43'40 | 4 M 26 | 9°15 | 13°58 | 10° 9 | 22°24 | 22°30 | 10°31 | 28°54 | 15°22 | 27°26 | 27°25 | 8° 4 | 7°53 | W19 |
| T 20 | 7 56 3 | 29°44'42 | 17°20 | 10°41 | 14°46 | 10°50 | 22°31 | 22°28 | 10°34 | 28°56 | 15°21 | 27°26 | 27°22 | 8°11 | 7°58 | T 20 |
| F 21 | 7 59 59 | 0≈45'43 | 29°55 | 12° 8 | 15°36 | 11°30 | 22°37 | 22°26 | 10°38 | 28°58 | 15°20 | 27°27 | 27°19 | 8°18 | 8° 4 | F 21 |
| S 22 | 8 3 56 | 1°46'44 | 12 ,7 14 | 13°36 | 16°26 | 12°11 | 22°44 | 22°24 | 10°41 | 29° 0 | 15°19 | 27°27 | 27°15 | 8°24 | 8° 9 | S 22 |
| S 23 | 8 7 53 | 2°47'43 | 24°22 | 15° 4 | 17°17 | 12°51 | 22°52 | 22°22 | 10°45 | 29° 2 | 15°19 | 27°28 | 27°12 | 8°31 | 8°14 | S 23 |
| M24 | 8 11 49 | 3°48'43 | 6 云 20 | 16°33 | 18° 9 | 13°32 | 22°59 | 22°19 | 10°48 | 29° 4 | 15°18 | 27°28 | 27° 9 | 8°38 | 8°20 | M24 |
| T 25 | 8 15 46 | 4°49'41 | 18°12 | 18° 3 | 19° 1 | 14°13 | 23° 6 | 22°17 | 10°51 | 29° 6 | 15°17 | 27°29 | 27° 6 | 8°44 | 8°25 | T 25 |
| W26 | 8 19 42 | 5°50'38 | 0≈ 1 | 19°33 | 19°54 | 14°53 | 23°14 | 22°15 | 10°55 | 29° 8 | 15°17 | 27°R29 | 27° 3 | 8°51 | 8°30 | W26 |
| T 27 | 8 23 39 | 6°51'34 | 11°48 | 21° 5 | 20°48 | 15°34 | 23°22 | 22°12 | 10°58 | 29°10 | 15°16 | 27°29 | 27° 0 | 8°57 | 8°35 | T 27 |
| F 28 | 8 27 35 | 7°52'29 | 23°36 | 22°37 | 21°42 | 16°14 | 23°30 | 22° 9 | 11° 1 | 29°12 | 15°15 | 27°28 | 26°56 | 9° 4 | 8°40 | F 28 |
| S 29 | 8 31 32 | 8°53'23 | 5 ¥ 27 | 24° 9 | 22°37 | 16°55 | 23°38 | 22° 7 | 11° 5 | 29°13 | 15°15 | 27°26 | 26°53 | 9°11 | 8°45 | S 29 |
| S 30 | 8 35 28 | 9°54'16 | 17°23 | 25°43 | 23°33 | 17°35 | 23°46 | 22° 4 | 11°8 | 29°15 | 15°14 | 27°24 | 26°50 | 9°17 | 8°50 | S 30 |
| M31 | 8 39 25 | 10≈55'07 | 29 米 27 | 27 궁 17 | 24 × 129 | 18 Y 16 | 23 Y 55 | 22 Mg 1 | 11 る 11 | 29 × 17 | 15 Ⅱ 13 | 27 る 22 | 26 පි 47 | 9 ≈ 24 | 8 ₹ 55 | M31 |

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Greg. Calendar

FEBRUARY 1656 GC 00:00 UT

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|-------------|----------------------|----------------------|-------------------------|------------------|-------------------------|----------------|-----------------|------------------------|--------------------------|--------------------------|-----------------|--------------------------------------|---------------------------------------|-------------------------|-------------------------|-------------|
| T 1 | 8 43 22 | 11≈55'57 | 11 Y 41 | 28 궁 52 | 25 × 26 | 18 Y 57 | 24 Y 3 | 21°R58 | 11 궁 14 | 29 × 19 | 15°R13 | 27°R20 | 26 궁 44 | 9≈31 | 9 ∡ 7 0 | T 1 |
| W 2 | 8 47 18 | 12°56'45 | 24° 9 | 0≈28 | 26°23 | 19°37 | 24°12 | 21 m 55 | 11°17 | 29°21 | 15 Ⅱ 12 | 27 궁 19 | 26°41 | 9°37 | 9° 4 | W 2 |
| T 3 | 8 51 15 | 13°57'32 | 6 8 55 | 2° 4 | 27°21 | 20°18 | 24°21 | 21°52 | 11°21 | 29°22 | 15°12 | 27°18 | 26°37 | 9°44 | 9° 9 | T 3 |
| F 4 S 5 | 8 55 11 8 59 8 | 14°58'18 15°59'02 | 20° 1 3 Ⅲ 31 | 3°41 5°20 | 28°19 29°17 | 20°58 21°39 | 24°29 24°39 | 21°48 21°45 | 11°24 11°27 | 29°24 29°26 | 15°11 15°11 | 27°D18 27°19 | 26°34 26°31 | 9°51 9°57 | 9°13 9°18 | F 4 S 5 |
| | | | | | | | | | | | | | | | | |
| S 6 | 9 3 4 | 16°59'44 | 17°26 | 6°58 | 0 궁 16 | 22°19 | 24°48 | 21°42 | 11°30 | 29°28 | 15°10 | 27°20 | 26°28 | 10° 4 | 9°22 | S 6 |
| M 7 T 8 | 9 7 1 9 10 57 | 18° 0'25 19° 1'04 | 19947 | 8°38 10°19 | 1°16 | 23° 0 23°40 | 24°57 25° 7 | 21°38 | 11°33 | 29°29 29°31 | 15°10 15° 9 | 27°21 27°22 | 26°25 | 10°11 10°17 | 9°26 9°30 | M 7 T 8 |
| W 9 | 9 10 57 | 20° 1'41 | 16°31 1 Ω 33 | 10°19 12° 0 | 2°16 3°16 | 23°40 24°21 | 25°16 | 21°35 21°31 | 11°36 11°39 | 29°31 29°32 | 15° 9 | 27°R22 | 26°21 26°18 | 10°17 10°24 | 9°35 | W 9 |
| T 10 | 9 18 51 | 20° 141 21° 2'17 | 16°46 | 13°42 | 4°17 | 25° 1 | 25°26 | 21°27 | 11°42 | 29°34 | 15° 8 | 27°22 | 26°15 | 10°24 | 9°39 | T 10 |
| F 11 | 9 22 47 | 22° 2'51 | 2 m 0 | 15°25 | 5°18 | 25°42 | 25°36 | 21°24 | 11°45 | 29°36 | 15° 8 | 27°19 | 26°12 | 10°37 | 9°42 | F 11 |
| S 12 | 9 26 44 | 23° 3'24 | 17° 5 | 17° 9 | 6°19 | 26°22 | 25°46 | 21°20 | 11°48 | 29°37 | 15° 8 | 27°16 | 26° 9 | 10°44 | 9°46 | S 12 |
| S 13 | 9 30 40 | 24° 3'55 | 1 ≏ 51 | 18°54 | 7°21 | 27° 3 | 25°56 | 21°16 | 11°51 | 29°39 | 15° 7 | 27°12 | 26° 6 | 10°50 | 9°50 | S 13 |
| M14 | 9 34 37 | 25° 4'25 | 16°13 | 20°40 | 8°23 | 27°43 | 26° 6 | 21°12 | 11°54 | 29°40 | 15° 7 | 27° 8 | 26° 2 | 10°57 | 9°54 | M14 |
| T 15 | 9 38 33 | 26° 4'53 | OM 6 | 22°26 | 9°26 | 28°23 | 26°16 | 21° 8 | 11°56 | 29°42 | 15° 7 | 27° 5 | 25°59 | 11° 4 | 9°57 | T 15 |
| W16 | 9 42 30 | 27° 5'21 | 13°31 | 24°14 | 10°28 | 29° 4 | 26°26 | 21° 4 | 11°59 | 29°43 | 15° 7 | 27° 3 | 25°56 | 11°10 | 10° 1 | W16 |
| T 17 | 9 46 26 | 28° 5'47 | 26°29 | 26° 3 | 11°31 | 29°44 | 26°37 | 21° 0 | 12° 2 | 29°44 | 15° 6 | 27°D 2 | 25°53 | 11°17 | 10° 4 | T 17 |
| F 18 | 9 50 23 | 29° 6'12 | 9 √ 3 | 27°52 | 12°35 | 0825 | 26°48 | 20°55 | 12° 5 | 29°46 | 15° 6 | 27° 2 | 25°50 | 11°24 | 10° 7 | F 18 |
| S 19 | 9 54 20 | 0 € 6'35 | 21°19 | 29°42 | 13°38 | 1° 5 | 26°58 | 20°51 | 12° 7 | 29°47 | 15° 6 | 27° 4 | 25°47 | 11°30 | 10°10 | S 19 |
| S 20 | 9 58 16 | 1° 6'57 | 3 云 20 | 1) (34 | 14°42 | 1°45 | 27° 9 | 20°47 | 12°10 | 29°49 | 15° 6 | 27° 6 | 25°43 | 11°37 | 10°13 | S 20 |
| M21 | 10 2 13 | 2° 7'17 | 15°13 | 3°26 | 15°46 | 2°26 | 27°20 | 20°43 | 12°13 | 29°50 | 15° 5 | 27° 7 | 25°40 | 11°44 | 10°16 | M21 |
| T 22 | 10 6 9 | 3° 7'36 | 27° 0 | 5°19 | 16°51 | 3° 6 | 27°31 | 20°38 | 12°15 | 29°51 | 15° 5 | 27°R 8 | 25°37 | 11°50 | 10°19 | T 22 |
| W23 T 24 | 10 10 6 | 4° 7'54 5° 8'09 | 8 ≈ 46 20°34 | 7°12 9° 7 | 17°55 19° 0 | 3°46 4°26 | 27°42 27°54 | 20°34 20°29 | 12°18 12°20 | 29°52 29°54 | 15° 5 15° 5 | 27° 7 27° 4 | 25°34 25°31 | 11°57 12° 4 | 10°22 10°25 | W23 T 24 |
| F 25 | 10 14 2 10 17 59 | 6° 8'23 | 20°34 2) (26 | 11° 1 | 20° 5 | 5° 7 | 27°54 28° 5 | 20°29 20°25 | 12°23 | 29°54 29°55 | 15° 5 | 27° 4 27° 0 | 25°27 | 12° 4 | 10°23 | F 25 |
| S 26 | 10 17 39 | 7° 8'35 | 14°24 | 12°57 | 20°3 | 5°47 | 28°16 | 20°23 20°20 | 12°25 | 29°56 | 15° 5 | 26°53 | 25°24 | 12°17 | 10°27 10°30 | S 26 |
| | | | | | | | | | | | | | | | | |
| S 27 M28 | 10 25 52 10 29 49 | 8° 8'45 9° 8'53 | 26°30 8 Y 46 | 14°52 16°48 | 22°16 23°22 | 6°27 7°7 | 28°28 28°39 | 20°16 20°11 | 12°28 12°30 | 29°57 29°58 | 15° 5 15°D 5 | 26°46 26°38 | 25°21 25°18 | 12°24 12°30 | 10°32 10°34 | S 27 M28 |
| T 29 | 10 29 49 | 10 X 8'59 | $21^{\circ}11$ | 18) (44 | 23°22 24 궁 28 | 7 8 48 | 28°59 28°751 | 20°11 20 m 6 | 12~30 12 ~3 32 | 29°58 29 × 759 | 15 II 5 | 26 ⁻³⁸ 26 -3 30 | 25 ⁻ 18 25 - 315 | 12*30 12 ≈ 37 | 10°34 10 × 37 | T 29 |
| 1 49 | 10 33 43 | 101 039 | 41 1 11 | 10/(44 | 24020 | /048 | 20 1 31 | ک بارا ∪∠ | 12032 | 47X 39 | 1311 3 | 20030 | 23013 | 12~~3/ | 108.2/ | 1 49 |

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| W 1 | 10 37 42 | 11 ¥ 9'03 | 3 8 48 | 20 米 39 | 25 る 34 | 8 8 28 | 29 Y 3 | 20°R 2 | 12 る 35 | 0 궁 0 | 15 I 5 | 26°R23 | 25 중 12 | 12≈44 | 10 × 39 | W 1 |
| T 2 | 10 41 38 | 12° 9'05 | 16°39 | 22°34 | 26°40 | 9° 8 | 29°15 | 19 m 57 | 12°37 | 0° 1 | 15° 5 | 26 궁 18 | 25° 8 | 12°50 | 10°41 | T 2 |
| F 3 | 10 45 35 | 13° 9'05 | 29°46 | 24°28 | 27°47 | 9°48 | 29°27 | 19°52 | 12°39 | 0° 2 | 15° 5 | 26°15 | 25° 5 | 12°57 | 10°43 | F 3 |
| S 4 | 10 49 31 | 14° 9'03 | 13 II 10 | 26°20 | 28°53 | 10°28 | 29°39 | 19°48 | 12°41 | 0° 3 | 15° 5 | 26°D14 | 25° 2 | 13° 4 | 10°44 | S 4 |
| S 5 | 10 53 28 | 15° 8'59 | 26°53 | 28°11 | 0≈ 0 | 11° 8 | 29°51 | 19°43 | 12°43 | 0° 4 | 15° 5 | 26°15 | 24°59 | 13°10 | 10°46 | S 5 |
| M 6 | 10 57 24 | 16° 8'52 | 10958 | 0 Υ 0 | 1° 7 | 11°48 | 0 8 3 | 19°38 | 12°45 | 0° 5 | 15° 6 | 26°16 | 24°56 | 13°17 | 10°48 | M 6 |
| T 7 | 11 121 | 17° 8'43 | 25°22 | 1°47 | 2°14 | 12°28 | 0°15 | 19°33 | 12°47 | 0° 6 | 15° 6 | 26°R16 | 24°53 | 13°23 | 10°49 | T 7 |
| W 8 | 11 5 18 | 18° 8'32 | 10Ω 5 | 3°30 | 3°22 | 13° 8 | 0°28 | 19°29 | 12°49 | 0° 7 | 15° 6 | 26°16 | 24°49 | 13°30 | 10°51 | W 8 |
| T 9 | 11 9 14 | 19° 8'19 | 25° 2 | 5°10 | 4°29 | 13°48 | 0°40 | 19°24 | 12°51 | 0° 7 | 15° 6 | 26°13 | 24°46 | 13°37 | 10°52 | T 9 |
| F 10 | 11 13 11 | 20° 8'03 | 10Mp 4 | 6°47 | 5°37 | 14°28 | 0°53 | 19°19 | 12°53 | 0° 8 | 15° 6 | 26° 7 | 24°43 | 13°43 | 10°53 | F 10 |
| S 11 | 11 17 7 | 21° 7'45 | 25° 3 | 8°18 | 6°44 | 15° 8 | 1° 5 | 19°14 | 12°55 | 0° 9 | 15° 7 | 26° 0 | 24°40 | 13°50 | 10°54 | S 11 |
| S 12 | 11 21 4 | 22° 7'26 | 9 ≙ 49 | 9°45 | 7°52 | 15°48 | 1°18 | 19°10 | 12°57 | 0° 9 | 15° 7 | 25°51 | 24°37 | 13°57 | 10°55 | S 12 |
| M13 | 11 25 0 | 23° 7'04 | 24°16 | 11° 6 | 9° 0 | 16°28 | 1°31 | 19° 5 | 12°59 | 0°10 | 15° 7 | 25°42 | 24°33 | 14° 3 | 10°56 | M13 |
| T 14 | 11 28 57 | 24° 6'41 | 8 M .16 | 12°22 | 10° 8 | 17° 8 | 1°43 | 19° 0 | 13° 0 | 0°11 | 15° 8 | 25°34 | 24°30 | 14°10 | 10°57 | T 14 |
| W15 | 11 32 53 | 25° 6'16 | 21°48 | 13°31 | 11°16 | 17°48 | 1°56 | 18°55 | 13° 2 | 0°11 | 15° 8 | 25°27 | 24°27 | 14°17 | 10°58 | W15 |
| T 16 | 11 36 50 | 26° 5'49 | 4 ₹ 52 | 14°34 | 12°25 | 18°28 | 2° 9 | 18°51 | 13° 4 | 0°12 | 15° 8 | 25°22 | 24°24 | 14°23 | 10°58 | T 16 |
| F 17 | 11 40 47 | 27° 5'20 | 17°31 | 15°30 | 13°33 | 19° 8 | 2°22 | 18°46 | 13° 5 | 0°12 | 15° 9 | 25°20 | 24°21 | 14°30 | 10°59 | F 17 |
| S 18 | 11 44 43 | 28° 4'50 | 29°49 | 16°18 | 14°42 | 19°48 | 2°35 | 18°41 | 13° 7 | 0°13 | 15° 9 | 25°D20 | 24°18 | 14°37 | 10°59 | S 18 |
| S 19 | 11 48 40 | 29° 4'18 | 11 궁 51 | 17° 0 | 15°51 | 20°27 | 2°48 | 18°37 | 13° 8 | 0°13 | 15°10 | 25°20 | 24°14 | 14°43 | 10°59 | S 19 |
| M20 | 11 52 36 | 0 Υ 3'44 | 23°43 | 17°33 | 16°59 | 21° 7 | 3° 1 | 18°32 | 13°10 | 0°14 | 15°10 | 25°R21 | 24°11 | 14°50 | 11° 0 | M20 |
| T 21 | 11 56 33 | 1° 3'08 | 5≈29 | 18° 0 | 18° 8 | 21°47 | 3°14 | 18°28 | 13°11 | 0°14 | 15°10 | 25°20 | 24° 8 | 14°57 | 11°R 0 | T 21 |
| W22 | 12 0 29 | 2° 2'30 | 17°16 | 18°18 | 19°17 | 22°27 | 3°28 | 18°23 | 13°12 | 0°14 | 15°11 | 25°18 | 24° 5 | 15° 3 | 11° 0 | W22 |
| T 23 | 12 4 26 | 3° 1'51 | 29° 7 | 18°29 | 20°26 | 23° 6 | 3°41 | 18°18 | 13°14 | 0°15 | 15°12 | 25°13 | 24° 2 | 15°10 | 10°59 | T 23 |
| F 24 | 12 8 22 | 4° 1'09 | 11 米 5 | 18°R33 | 21°36 | 23°46 | 3°54 | 18°14 | 13°15 | 0°15 | 15°12 | 25° 5 | 23°58 | 15°17 | 10°59 | F 24 |
| S 25 | 12 12 19 | 5° 0'26 | 23°12 | 18°29 | 22°45 | 24°26 | 4° 8 | 18° 9 | 13°16 | 0°15 | 15°13 | 24°55 | 23°55 | 15°23 | 10°59 | S 25 |
| S 26 | 12 16 15 | 5°59'40 | 5 Ƴ 31 | 18°18 | 23°54 | 25° 5 | 4°21 | 18° 5 | 13°17 | 0°16 | 15°13 | 24°43 | 23°52 | 15°30 | 10°58 | S 26 |
| M27 | 12 20 12 | 6°58'53 | 18° 2 | 18° 0 | 25° 4 | 25°45 | 4°34 | 18° 1 | 13°18 | 0°16 | 15°14 | 24°30 | 23°49 | 15°37 | 10°58 | M27 |
| T 28 | 12 24 9 | 7°58'03 | 0 8 45 | 17°37 | 26°13 | 26°25 | 4°48 | 17°56 | 13°19 | 0°16 | 15°14 | 24°17 | 23°46 | 15°43 | 10°57 | T 28 |
| W29 | 12 28 5 | 8°57'11 | 13°40 | 17° 7 | 27°23 | 27° 4 | 5° 2 | 17°52 | 13°20 | 0°16 | 15°15 | 24° 6 | 23°43 | 15°50 | 10°57 | W29 |
| T 30 | 12 32 2 | 9°56'17 | 26°46 | 16°33 | 28°33 | 27°44 | 5°15 | 17°48 | 1 <u>3</u> °21 | <u>0°16</u> | 15°16 | 2 <u>3</u> °57 | 23°39 | 15°56 | 10°56 | T 30 |
| F 31 | 12 35 58 | 10 Υ 55'21 | 10耳 4 | 15 Υ 55 | 29≈42 | 28 8 23 | 5 8 29 | 17 M 44 | 13 る 22 | 0 궁 16 | 15 I I16 | 23 ට 51 | 23 궁 36 | 16≈ 3 | 10 ₹ 55 | F 31 |

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Greg. Calendar

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| Day | Sid.t | 0 | D | Ϋ́ | φ | ♂ [™] | 4 | ħ |)Å(| ¥ | Р | ß | Ω | Ç | ę, | Day |
|------|----------|-------------------|-----------------|----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|--------|----------------|-------|----------------|------|
| S 1 | 12 39 55 | 11 Y 54'23 | 23 Ⅱ 34 | 15°R13 | 0 ¥ 52 | 29 8 3 | 5 8 42 | 17°R39 | 13 る 23 | 0°R16 | 15 Ⅱ 17 | 23°R48 | 23 る 33 | 16≈10 | 10°R54 | S 1 |
| S 2 | 12 43 51 | 12°53'22 | <i>7</i> 9517 | 14 Y 29 | 2° 2 | 29°42 | 5°56 | 17 m)35 | 13°24 | 0 ට 16 | 15°18 | 23~347 | 23°30 | 16°16 | 10 ₹ 53 | S 2 |
| M 3 | 12 47 48 | 13°52'19 | 21°13 | 13°43 | 3°12 | 0Д22 | 6°10 | 17°31 | 13°24 | 0°16 | 15°19 | 23°47 | 23°27 | 16°23 | 10°51 | M 3 |
| T 4 | 12 51 44 | 14°51'14 | 5 Ω 23 | 12°56 | 4°22 | 1° 1 | 6°24 | 17°27 | 13°25 | 0°16 | 15°19 | 23°47 | 23°24 | 16°30 | 10°50 | T 4 |
| W 5 | 12 55 41 | 15°50'06 | 19°46 | 12°10 | 5°32 | 1°41 | 6°38 | 17°24 | 13°26 | 0°16 | 15°20 | 23°45 | 23°20 | 16°36 | 10°49 | W 5 |
| T 6 | 12 59 38 | 16°48'56 | 4 m)19 | 11°24 | 6°42 | 2°20 | 6°51 | 17°20 | 13°26 | 0°16 | 15°21 | 23°41 | 23°17 | 16°43 | 10°47 | T 6 |
| F 7 | 13 3 34 | 17°47'43 | 18°57 | 10°41 | 7°53 | 3° 0 | 7° 5 | 17°16 | 13°27 | 0°16 | 15°22 | 23°34 | 23°14 | 16°50 | 10°46 | F 7 |
| S 8 | 13 7 31 | 18°46'29 | 3 ₾ 35 | 10° 0 | 9° 3 | 3°39 | 7°19 | 17°12 | 13°27 | 0°15 | 15°23 | 23°24 | 23°11 | 16°56 | 10°44 | S 8 |
| S 9 | 13 11 27 | 19°45'12 | 18° 5 | 9°23 | 10°13 | 4°18 | 7°33 | 17° 9 | 13°28 | 0°15 | 15°23 | 23°12 | 23° 8 | 17° 3 | 10°42 | S 9 |
| M10 | 13 15 24 | 20°43'53 | 2 M 19 | 8°49 | 11°24 | 4°58 | 7°47 | 17° 5 | 13°28 | 0°15 | 15°24 | 23° 1 | 23° 4 | 17°10 | 10°40 | M10 |
| T 11 | 13 19 20 | 21°42'33 | 16°13 | 8°19 | 12°34 | 5°37 | 8° 1 | 17° 2 | 13°28 | 0°14 | 15°25 | 22°49 | 23° 1 | 17°16 | 10°38 | T 11 |
| W12 | 13 23 17 | 22°41'10 | 29°43 | 7°54 | 13°45 | 6°16 | 8°15 | 16°58 | 13°29 | 0°14 | 15°26 | 22°40 | 22°58 | 17°23 | 10°36 | W12 |
| T 13 | 13 27 13 | 23°39'46 | 12 , 748 | 7°34 | 14°55 | 6°56 | 8°29 | 16°55 | 13°29 | 0°14 | 15°27 | 22°33 | 22°55 | 17°30 | 10°34 | T 13 |
| F 14 | 13 31 10 | 24°38'21 | 2 <u>5</u> °29 | 7°18 | 16° 6 | 7°35 | 8°43 | 16°52 | 13°29 | 0°13 | 15°28 | 22°29 | 22°52 | 17°36 | 10°32 | F 14 |
| S 15 | 13 35 7 | 25°36'53 | 7 궁 49 | 7° 8 | 17°17 | 8°14 | 8°57 | 16°48 | 13°29 | 0°13 | 15°29 | 22°27 | 22°49 | 17°43 | 10°30 | S 15 |
| S 16 | 13 39 3 | 26°35'24 | 19°53 | 7° 3 | 18°27 | 8°53 | 9°11 | 16°45 | 13°29 | 0°12 | 15°30 | 22°26 | 22°45 | 17°50 | 10°27 | S 16 |
| M17 | 13 43 0 | 27°33'53 | 1≈47 | 7°D 3 | 19°38 | 9°32 | 9°26 | 16°42 | 13°R29 | 0°12 | 15°31 | 22°26 | 22°42 | 17°56 | 10°25 | M17 |
| T 18 | 13 46 56 | 28°32'21 | 13°36 | 7° 8 | 20°49 | 10°11 | 9°40 | 16°39 | 13°29 | 0°11 | 15°32 | 22°25 | 22°39 | 18° 3 | 10°22 | T 18 |
| W19 | 13 50 53 | 29°30'47 | 25°25 | 7°18 | 22° 0 | 10°51 | 9°54 | 16°36 | 13°29 | 0°11 | 15°33 | 22°23 | 22°36 | 18°10 | 10°20 | W19 |
| T 20 | 13 54 49 | 0829'11 | 7 ∺ 19 | 7°32 | 23°11 | 11°30 | 10° 8 | 16°34 | 13°29 | 0°10 | 15°34 | 22°18 | 22°33 | 18°16 | 10°17 | T 20 |
| F 21 | 13 58 46 | 1°27'34 | 19°22 | 7°51 | 24°22 | 12° 9 | 10°22 | 16°31 | 13°29 | 0°10 | 15°35 | 22°11 | 22°30 | 18°23 | 10°14 | F 21 |
| S 22 | 14 2 42 | 2°25'55 | 1 Ƴ 39 | 8°15 | 25°33 | 12°48 | 10°36 | 16°28 | 13°29 | 0° 9 | 15°36 | 22° 1 | 22°26 | 18°30 | 10°11 | S 22 |
| S 23 | 14 6 39 | 3°24'14 | 14°10 | 8°43 | 26°44 | 13°27 | 10°51 | 16°26 | 13°28 | 0° 8 | 15°37 | 21°49 | 22°23 | 18°36 | 10° 9 | S 23 |
| M24 | 14 10 36 | 4°22'31 | 26°57 | 9°16 | 27°55 | 14° 6 | 11° 5 | 16°24 | 13°28 | 0° 8 | 15°38 | 21°37 | 22°20 | 18°43 | 10° 6 | M24 |
| T 25 | 14 14 32 | 5°20'47 | 9 8 59 | 9°52 | 29° 6 | 14°45 | 11°19 | 16°21 | 13°28 | 0° 7 | 15°39 | 21°24 | 22°17 | 18°50 | 10° 3 | T 25 |
| W26 | 14 18 29 | 6°19'01 | 23°16 | 10°32 | 0 Υ 17 | 15°24 | 11°33 | 16°19 | 13°27 | 0° 6 | 15°40 | 21°13 | 22°14 | 18°56 | 9°59 | W26 |
| T 27 | 14 22 25 | 7°17'14 | 6 Ⅱ 44 | 11°16 | 1°28 | 16° 3 | 11°48 | 16°17 | 13°27 | 0° 5 | 15°41 | 21° 4 | 22°10 | 19° 3 | 9°56 | T 27 |
| F 28 | 14 26 22 | 8°15'24 | 20°23 | 12° 3 | 2°40 | 16°42 | 12° 2 | 16°15 | 13°26 | 0° 5 | 15°43 | 20°58 | 22° 7 | 19°10 | 9°53 | F 28 |
| S 29 | 14 30 18 | 9°13'33 | 49911 | 12°54 | 3°51 | 17°21 | 12°16 | 16°13 | 13°26 | 0° 4 | 15°44 | 20°55 | 22° 4 | 19°16 | 9°50 | S 29 |
| S 30 | 14 34 15 | 10 8 11'39 | 1895 5 | 13 Y 48 | 5 Υ 2 | 18 I I 0 | 12830 | 16 M p11 | 13 る 25 | 0 පි 3 | 15 Ⅱ 45 | 20°D54 | 22ਰ 1 | 19≈23 | 9 ∡ 746 | S 30 |

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|----------------------|----------------------------------|----------------------------------|--------------------------------|-------------------------|-------------------------|---------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|-------------------------|-------------------------|----------------------|----------------------|
| M 1 | 14 38 11 | 11 8 9'44 | 2 Ω 6 | 14 Υ 45 | 6 Υ 14 | 18 川 39 | 12 8 45 | 16°R 9 | 13°R24 | 0°R 2 | 15 Ⅱ 46 | 20 る 54 | 21 る 58 | 19 ≈ 30 | 9°R43 | M 1 |
| T 2 | 14 42 8 | 12° 7'46 | 16°12 | 15°46 | 7°25 | 19°18 | 12°59 | 16 M) 8 | 13 る 24 | 0る 1 | 15°47 | 20°R55 | 21°55 | 19°36 | 9 ∡ ³39 | T 2 |
| W 3 | 14 46 5 | 13° 5'47 | 0 Mp 23 | 16°49 | 8°36 | 19°57 | 13°13 | 16° 6 | 13°23 | 0° 0 | 15°48 | 20°53 | 21°51 | 19°43 | 9°36 | W 3 |
| T 4 | 14 50 1 | 14° 3'46 | 14°37 | 17°55 | 9°48 | 20°35 | 13°27 | 16° 5 | 13°22 | 29 ∡ 759 | 15°50 | 20°50 | 21°48 | 19°50 | 9°32 | T 4 |
| F 5 | 14 53 58 | 15° 1'42 | 28°51 | 19° 3 | 10°59 | 21°14 | 13°42 | 16° 3 | 13°21 | 29°58 | 15°51 | 20°44 | 21°45 | 19°56 | 9°28 | F 5 |
| S 6 | 14 57 54 | 15°59'37 | 13 ♀ 2 | 20°15 | 12°11 | 21°53 | 13°56 | 16° 2 | 13°20 | 29°57 | 15°52 | 20°36 | 21°42 | 20° 3 | 9°25 | S 6 |
| S 7 | 15 1 51 | 16°57'30 | 27° 6 | 21°28 | 13°22 | 22°32 | 14°10 | 16° 1 | 13°19 | 29°56 | 15°53 | 20°27 | 21°39 | 20°10 | 9°21 | S 7 |
| M 8 | 15 5 47 | 17°55'22 | 10 M 57 | 22°45 | 14°34 | 23°11 | 14°24 | 16° 0 | 13°18 | 29°55 | 15°55 | 20°17 | 21°35 | 20°16 | 9°17 | M 8 |
| T 9 | 15 9 44 | 18°53'12 | 24°33 | 24° 4 | 15°45 | 23°49 | 14°39 | 15°59 | 13°17 | 29°54 | 15°56 | 20° 7 | 21°32 | 20°23 | 9°13 | T 9 |
| W10 | 15 13 40 | 19°51'01 | 7 ×7 49 | 25°25 | 16°57 | 24°28 | 14°53 | 15°58 | 13°16 | 29°53 | 15°57 | 19°59 | 21°29 | 20°30 | 9° 9 | W10 |
| T 11 F 12 S 13 | 15 17 37 15 21 34 | 20°48'48 21°46'35 | 20°45 3 ♂ 21 | 26°49 28°15 29°43 | 18° 8 19°20 | 25° 7 25°46 | 15° 7 15°21 | 15°57 15°57 | 13°15 13°14 | 29°52 29°50 29°49 | 15°58 16° 0 16° 1 | 19°53 19°49 19°D48 | 21°26 21°23 21°20 | 20°36 20°43 20°50 | 9° 6 9° 2 8°58 | T 11 F 12 S 13 |
| S 14 | 15 25 30 15 29 27 | 22°44'19 23°42'03 | 15°40 27°44 | 1814 | 20°32 21°44 | 26°24 27° 3 | 15°35 15°50 | 15°56 | 13°13 13°12 | 29°48 | 16° 2 | 19°48 | 21°16 | 20°56 | 8°54 | S 14 |
| M15 T 16 W17 | 15 33 23 15 37 20 15 41 16 | 24°39'46 25°37'27 | 9≈39 21°29 3 ¥ 20 | 2°47 4°22 5°59 | 22°55 24° 7 25°19 | 27°42 28°20 28°59 | 16° 4 16°18 16°32 | 15°55 15°55 15°55 | 13°10 13° 9 13° 8 | 29°47 29°45 29°44 | 16° 4 16° 5 16° 6 | 19°49 19°R50 | 21°13 21°10 21° 7 | 21° 3 21°10 21°16 | 8°49 8°45 8°41 | M15 T 16 W17 |
| T 18 F 19 | 15 45 13 15 49 9 | 26°35'07 27°32'46 28°30'25 | 15°16 27°23 | 7°39 9°21 | 26°31 27°43 | 28°39 29°37 0 © 16 | 16°32 16°46 17° 0 | 15°D55 15°55 | 13° 6 13° 5 | 29°43 29°42 | 16° 8 16° 9 | 19°50 19°48 19°44 | 21° 4 21° 1 | 21°23 21°30 | 8°37 8°33 | T 18 F 19 |
| S 20 | 15 53 6 | 29°28'02 | 9 Υ 44 | 11° 5 | 28°54 | 0°55 | 17°14 | 15°55 | 13° 3 | 29°40 | 16°10 | 19°38 | 20°57 | 21°36 | 8°29 | S 20 |
| S 21 | 15 57 3 | 0 Д 25'38 | 22°23 | 12°51 | 0 8 6 | 1°33 | 17°28 | 15°56 | 13° 2 | 29°39 | 16°12 | 19°31 | 20°54 | 21°43 | 8°24 | S 21 |
| M22 | 16 0 59 | 1°23'13 | 5 8 22 | 14°40 | 1°18 | 2°12 | 17°42 | 15°56 | 13° 0 | 29°38 | 16°13 | 19°23 | 20°51 | 21°49 | 8°20 | M22 |
| T 23 | 16 4 56 | 2°20'48 | 18°40 | 16°31 | 2°30 | 2°50 | 17°56 | 15°56 | 12°58 | 29°36 | 16°14 | 19°15 | 20°48 | 21°56 | 8°16 | T 23 |
| W24 | 16 8 52 | 3°18'21 | 2 Ⅱ 17 | 18°24 | 3°42 | 3°29 | 18°10 | 15°57 | 12°57 | 29°35 | 16°16 | 19°8 | 20°45 | 22° 3 | 8°12 | W24 |
| T 25 | 16 12 49 | 4°15'53 | 16° 9 | 20°19 | 4°54 | 4° 7 | 18°24 | 15°58 | 12°55 | 29°33 | 16°17 | 19° 2 | 20°41 | 22°10 | 8° 7 | T 25 |
| F 26 | 16 16 45 | 5°13'24 | 0 © 13 | 22°17 | 6° 6 | 4°46 | 18°38 | 15°59 | 12°53 | 29°32 | 16°19 | 18°59 | 20°38 | 22°16 | 8° 3 | F 26 |
| S 27 | 16 20 42 | 6°10'54 7° 8'23 | 14°25 28°41 | 24°16 26°18 | 7°18 8°30 | 5°24 6° 3 | 18°52 19° 6 | 15°59 16° 0 | 12°52 12°50 | 29°30 29°29 | 16°20 16°21 | 18°D57 18°58 | 20°35 20°32 | 22°23 22°30 | 7°59 7°55 | S 27 S 28 |
| S 28 M29 | 16 24 38 16 28 35 | 8° 5'50 | 12 Ω 58 | 28°21 | 9°42 | 6°41 | 19°20 | 16° 2 | 12°48 | 29°28 | 16°23 | 18°59 | 20°29 | 22°36 | 7°50 | M29 |
| T 30 | 16 32 32 | 9° 3'16 | 27°12 | 0 П 26 | 10°55 | 7°20 | 19°34 | 16° 3 | 12°46 | 29°26 | 16°24 | 19° 0 | 20°26 | 22°43 | 7°46 | T 30 |
| W31 | 16 36 28 | 10 II 0'41 | 11 M) 23 | 2 П 33 | 12 8 7 | 7 © 58 | 19 8 47 | 16 m) 4 | 12 ざ 44 | 29 × 25 | 16 Ⅱ 26 | 19°R 0 | 20 る 22 | 22≈50 | 7 ∡7 42 | W31 |

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|------|----------|----------|----------------|---------------|----------------|----------------|-------|----------------|----------------|----------------|----------------|----------------|-----------------|-------|----------------|------|
| T 1 | 16 40 25 | 10耳58′05 | 25 Mg 28 | 4 ∏ 41 | 13 8 19 | 8936 | 208 1 | 16 m 6 | 12°R42 | 29°R23 | 16 Ⅱ 27 | 18°R59 | 20 궁 19 | 22≈56 | 7°R37 | T 1 |
| F 2 | 16 44 21 | 11°55'27 | 9 ჲ 25 | 6°50 | 14°31 | 9°15 | 20°15 | 16° 7 | 12 る 40 | 29 × 22 | 16°28 | 18 궁 57 | 20°16 | 23° 3 | 7 . ₹33 | F 2 |
| S 3 | 16 48 18 | 12°52'49 | 23°14 | 9° 1 | 15°43 | 9°53 | 20°29 | 16° 9 | 12°38 | 29°20 | 16°30 | 18°53 | 20°13 | 23°10 | 7°29 | S 3 |
| S 4 | 16 52 14 | 13°50'09 | 6 M .51 | 11°12 | 16°55 | 10°31 | 20°42 | 16°10 | 12°36 | 29°18 | 16°31 | 18°48 | 20°10 | 23°16 | 7°25 | S 4 |
| M 5 | 16 56 11 | 14°47'28 | 20°17 | 13°24 | 18° 8 | 11°10 | 20°56 | 16°12 | 12°34 | 29°17 | 16°33 | 18°43 | 20° 7 | 23°23 | 7°21 | M 5 |
| T 6 | 17 0 7 | 15°44'47 | 3 ₹ 28 | 15°36 | 19°20 | 11°48 | 21° 9 | 16°14 | 12°32 | 29°15 | 16°34 | 18°37 | 20° 3 | 23°30 | 7°16 | T 6 |
| W 7 | 17 4 4 | 16°42'05 | 16°24 | 17°47 | 20°32 | 12°26 | 21°23 | 16°16 | 12°30 | 29°14 | 16°35 | 18°33 | 20° 0 | 23°36 | 7°12 | W 7 |
| T 8 | 17 8 1 | 17°39'22 | 29° 4 | 19°59 | 21°44 | 13° 5 | 21°36 | 16°18 | 12°28 | 29°12 | 16°37 | 18°30 | 19°57 | 23°43 | 7° 8 | T 8 |
| F 9 | 17 11 57 | 18°36'39 | 11 る 30 | 22°10 | 22°57 | 13°43 | 21°50 | 16°20 | 12°26 | 29°11 | 16°38 | 18°29 | 19°54 | 23°50 | 7° 4 | F 9 |
| S 10 | 17 15 54 | 19°33'55 | 23°42 | 24°21 | 24° 9 | 14°21 | 22° 3 | 16°23 | 12°24 | 29° 9 | 16°40 | 18°D29 | 19°51 | 23°56 | 7° 0 | S 10 |
| S 11 | 17 19 50 | 20°31'10 | 5≈43 | 26°30 | 25°22 | 15° 0 | 22°16 | 16°25 | 12°22 | 29° 7 | 16°41 | 18°30 | 19°47 | 24° 3 | 6°56 | S 11 |
| M12 | 17 23 47 | 21°28'25 | 17°37 | 28°38 | 26°34 | 15°38 | 22°30 | 16°28 | 12°20 | 29° 6 | 16°42 | 18°31 | 19°44 | 24°10 | 6°52 | M12 |
| T 13 | 17 27 43 | 22°25'40 | 29°27 | 09544 | 27°46 | 16°16 | 22°43 | 16°30 | 12°17 | 29° 4 | 16°44 | 18°33 | 19°41 | 24°16 | 6°48 | T 13 |
| W14 | 17 31 40 | 23°22'54 | 11 米 18 | 2°49 | 28°59 | 16°54 | 22°56 | 16°33 | 12°15 | 29° 3 | 16°45 | 18°34 | 19°38 | 24°23 | 6°44 | W14 |
| T 15 | 17 35 36 | 24°20'09 | 23°15 | 4°53 | 0 I I11 | 17°33 | 23° 9 | 16°36 | 12°13 | 29° 1 | 16°47 | 18°R35 | 19°35 | 24°30 | 6°40 | T 15 |
| F 16 | 17 39 33 | 25°17'23 | 5 Υ 22 | 6°54 | 1°24 | 18°11 | 23°22 | 16°38 | 12°11 | 28°59 | 16°48 | 18°34 | 19°32 | 24°36 | 6°36 | F 16 |
| S 17 | 17 43 30 | 26°14'37 | 17°44 | 8°54 | 2°36 | 18°49 | 23°35 | 16°41 | 12° 8 | 28°58 | 16°49 | 18°33 | 19°28 | 24°43 | 6°32 | S 17 |
| S 18 | 17 47 26 | 27°11'51 | 0 8 25 | 10°51 | 3°49 | 19°27 | 23°48 | 16°44 | 12° 6 | 28°56 | 16°51 | 18°31 | 19°25 | 24°50 | 6°28 | S 18 |
| M19 | 17 51 23 | 28° 9'04 | 13°27 | 12°46 | 5° 2 | 20° 5 | 24° 1 | 16°48 | 12° 4 | 28°55 | 16°52 | 18°28 | 19°22 | 24°56 | 6°24 | M19 |
| T 20 | 17 55 19 | 29° 6'18 | 26°53 | 14°40 | 6°14 | 20°44 | 24°14 | 16°51 | 12° 1 | 28°53 | 16°54 | 18°25 | 19°19 | 25° 3 | 6°20 | T 20 |
| W21 | 17 59 16 | 0ණ 3'32 | 10 Ⅱ 42 | 16°31 | 7°27 | 21°22 | 24°27 | 16°54 | 11°59 | 28°51 | 16°55 | 18°23 | 19°16 | 25°10 | 6°17 | W21 |
| T 22 | 18 3 12 | 1° 0'45 | 24°52 | 18°20 | 8°39 | 22° 0 | 24°40 | 16°58 | 11°57 | 28°50 | 16°56 | 18°21 | 19°13 | 25°16 | 6°13 | T 22 |
| F 23 | 18 7 9 | 1°57'59 | 99518 | 20° 7 | 9°52 | 22°38 | 24°52 | 17° 1 | 11°54 | 28°48 | 16°58 | 18°20 | 19° 9 | 25°23 | 6°10 | F 23 |
| S 24 | 18 11 6 | 2°55'12 | 23°55 | 21°52 | 11° 5 | 23°16 | 25° 5 | 17° 5 | 11°52 | 28°46 | 16°59 | 18°D20 | 19° 6 | 25°30 | 6° 6 | S 24 |
| S 25 | 18 15 2 | 3°52'25 | 8 Ω 37 | 23°34 | 12°18 | 23°55 | 25°18 | 17° 8 | 11°50 | 28°45 | 17° 0 | 18°21 | 19° 3 | 25°36 | 6° 3 | S 25 |
| M26 | 18 18 59 | 4°49'37 | 23°17 | 25°15 | 13°30 | 24°33 | 25°30 | 17°12 | 11°47 | 28°43 | 17° 2 | 18°22 | 19° 0 | 25°43 | 5°59 | M26 |
| T 27 | 18 22 55 | 5°46'49 | 7 m 49 | 26°53 | 14°43 | 25°11 | 25°43 | 17°16 | 11°45 | 28°42 | 17° 3 | 18°23 | 18°57 | 25°50 | 5°56 | T 27 |
| W28 | 18 26 52 | 6°44'01 | 22°10 | 28°29 | 15°56 | 25°49 | 25°55 | 17°20 | 11°42 | 28°40 | 17° 4 | 18°23 | 18°53 | 25°56 | 5°53 | W28 |
| T 29 | 18 30 48 | 7°41'13 | 6 ≙ 17 | 0Ω 3 | 17° 9 | 26°27 | 26° 7 | 17°24 | 1 <u>1</u> °40 | 28°38 | 17° 6 | 18°R24 | 1 <u>8</u> °50 | 26° 3 | 5°49 | T 29 |
| F 30 | 18 34 45 | 8938'24 | 20 ₾ 8 | 1 Ω 34 | 18Ⅱ22 | 2799 5 | 26819 | 17 M 28 | 11 る 38 | 28 ∡ 37 | 17耳 7 | 18 ට 23 | 18 ප් 47 | 26≈10 | 5 , 746 | F 30 |

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JULY 1656 GC 00:00 UT

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|------|----------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|-------|----------------|------|
| S 1 | 18 38 41 | 9935'35 | 3 M .42 | 3 N 4 | 19 Ⅲ 34 | 279543 | 26 8 32 | 17 m 32 | 11°R35 | 28°R35 | 17 I 8 | 18°R23 | 18 පි 44 | 26≈16 | 5°R43 | S 1 |
| S 2 | 18 42 38 | 10°32'45 | 17° 1 | 4°31 | 20°47 | 28°22 | 26°44 | 17°36 | 11 る 33 | 28 ∡ ³34 | 17°10 | 18 る 22 | 18°41 | 26°23 | 5 ₹ 40 | S 2 |
| M 3 | 18 46 35 | 11°29'56 | 0 ∡ 7 4 | 5°56 | 22° 0 | 29° 0 | 26°56 | 17°41 | 11°30 | 28°32 | 17°11 | 18°21 | 18°38 | 26°30 | 5°37 | M 3 |
| T 4 | 18 50 31 | 12°27'07 | 12°52 | 7°18 | 23°13 | 29°38 | 27° 8 | 17°45 | 11°28 | 28°31 | 17°12 | 18°20 | 18°34 | 26°36 | 5°34 | T 4 |
| W 5 | 18 54 28 | 13°24'18 | 25°28 | 8°38 | 24°26 | 0Ω16 | 27°19 | 17°49 | 11°25 | 28°29 | 17°14 | 18°20 | 18°31 | 26°43 | 5°31 | W 5 |
| T 6 | 18 58 24 | 14°21'28 | 7 云 51 | 9°56 | 25°39 | 0°54 | 27°31 | 17°54 | 11°23 | 28°27 | 17°15 | 18°19 | 18°28 | 26°50 | 5°29 | T 6 |
| F 7 | 19 221 | 15°18'40 | 20° 3 | 11°12 | 26°52 | 1°32 | 27°43 | 17°59 | 11°21 | 28°26 | 17°16 | 18°D19 | 18°25 | 26°56 | 5°26 | F 7 |
| S 8 | 19 6 17 | 16°15'51 | 2≈ 6 | 12°25 | 28° 5 | 2°10 | 27°54 | 18° 3 | 11°18 | 28°24 | 17°17 | 18°19 | 18°22 | 27° 3 | 5°23 | S 8 |
| S 9 | 19 10 14 | 17°13'03 | 14° 2 | 13°35 | 29°18 | 2°48 | 28° 6 | 18° 8 | 11°16 | 28°23 | 17°19 | 18°20 | 18°19 | 27°10 | 5°21 | S 9 |
| M10 | 19 14 10 | 18°10'15 | 25°54 | 14°43 | 0ഇ31 | 3°26 | 28°17 | 18°13 | 11°13 | 28°21 | 17°20 | 18°R20 | 18°15 | 27°16 | 5°18 | M10 |
| T 11 | 19 18 7 | 19° 7'27 | 7) 43 | 15°48 | 1°45 | 4° 4 | 28°29 | 18°18 | 11°11 | 28°20 | 17°21 | 18°20 | 18°12 | 27°23 | 5°16 | T 11 |
| W12 | 19 22 4 | 20° 4'40 | 19°35 | 16°50 | 2°58 | 4°42 | 28°40 | 18°23 | 11° 9 | 28°18 | 17°22 | 18°19 | 18° 9 | 27°30 | 5°14 | W12 |
| T 13 | 19 26 0 | 21° 1'54 | 1 Y 31 | 17°49 | 4°11 | 5°21 | 28°51 | 18°28 | 11° 6 | 28°17 | 17°24 | 18°19 | 18° 6 | 27°36 | 5°11 | T 13 |
| F 14 | 19 29 57 | 21°59'09 | 13°37 | 18°45 | 5°24 | 5°59 | 29° 2 | 18°33 | 11° 4 | 28°15 | 17°25 | 18°19 | 18° 3 | 27°43 | 5° 9 | F 14 |
| S 15 | 19 33 53 | 22°56'24 | 25°57 | 19°39 | 6°37 | 6°37 | 29°13 | 18°38 | 11° 2 | 28°14 | 17°26 | 18°D19 | 17°59 | 27°50 | 5° 7 | S 15 |
| S 16 | 19 37 50 | 23°53'40 | 8 8 36 | 20°29 | 7°51 | 7°15 | 29°24 | 18°43 | 10°59 | 28°13 | 17°27 | 18°19 | 17°56 | 27°56 | 5° 5 | S 16 |
| M17 | 19 41 46 | 24°50'57 | 21°36 | 21°15 | 9° 4 | 7°53 | 29°35 | 18°49 | 10°57 | 28°11 | 17°28 | 18°20 | 17°53 | 28° 3 | 5° 3 | M17 |
| T 18 | 19 45 43 | 25°48'15 | 5 I 0 | 21°58 | 10°17 | 8°31 | 29°46 | 18°54 | 10°55 | 28°10 | 17°29 | 18°20 | 17°50 | 28°10 | 5° 2 | T 18 |
| W19 | 19 49 39 | 26°45'34 | 18°51 | 22°38 | 11°31 | 9° 9 | 29°56 | 19° 0 | 10°52 | 28° 8 | 17°31 | 18°21 | 17°47 | 28°17 | 5° 0 | W19 |
| T 20 | 19 53 36 | 27°42'54 | 3 95 7 | 23°13 | 12°44 | 9°47 | 0 I 7 | 19° 5 | 10°50 | 28° 7 | 17°32 | 18°22 | 17°44 | 28°23 | 4°58 | T 20 |
| F 21 | 19 57 33 | 28°40'14 | 17°45 | 23°45 | 13°58 | 10°25 | 0°17 | 19°11 | 10°48 | 28° 6 | 17°33 | 18°R22 | 17°40 | 28°30 | 4°57 | F 21 |
| S 22 | 20 1 29 | 29°37'36 | 2 Ω 39 | 24°12 | 15°11 | 11° 3 | 0°27 | 19°16 | 10°45 | 28° 4 | 17°34 | 18°22 | 17°37 | 28°37 | 4°55 | S 22 |
| S 23 | 20 5 26 | 0 ん 34'58 | 17°42 | 24°35 | 16°25 | 11°41 | 0°38 | 19°22 | 10°43 | 28° 3 | 17°35 | 18°21 | 17°34 | 28°43 | 4°54 | S 23 |
| M24 | 20 9 22 | 1°32'20 | 2 Mp 44 | 24°53 | 17°38 | 12°19 | 0°48 | 19°28 | 10°41 | 28° 2 | 17°36 | 18°19 | 17°31 | 28°50 | 4°53 | M24 |
| T 25 | 20 13 19 | 2°29'43 | 17°38 | 25° 7 | 18°52 | 12°57 | 0°58 | 19°34 | 10°39 | 28° 0 | 17°37 | 18°18 | 17°28 | 28°57 | 4°51 | T 25 |
| W26 | 20 17 15 | 3°27'07 | 2 ₽ 16 | 25°16 | 20° 5 | 13°36 | 1° 8 | 19°39 | 10°37 | 27°59 | 17°38 | 18°16 | 17°25 | 29° 3 | 4°50 | W26 |
| T 27 | 20 21 12 | 4°24'31 | 16°33 | 25°R20 | 21°19 | 14°14 | 1°17 | 19°45 | 10°34 | 27°58 | 17°39 | 18°15 | 17°21 | 29°10 | 4°49 | T 27 |
| F 28 | 20 25 8 | 5°21'56 | 0 M .26 | 25°18 | 22°32 | 14°52 | 1°27 | 19°51 | 10°32 | 27°57 | 17°40 | 18°D14 | 17°18 | 29°17 | 4°48 | F 28 |
| S 29 | 20 29 5 | 6°19'22 | 13°57 | 25°12 | 23°46 | 15°30 | 1°37 | 19°57 | 10°30 | 27°56 | 17°41 | 18°14 | 17°15 | 29°23 | 4°48 | S 29 |
| S 30 | 20 33 2 | 7°16'49 | 27° 5 | 25° 0 | 25° 0 | 16° 8 | 1°46 | 20° 4 | 10°28 | 27°54 | 17°42 | 18°15 | 17°12 | 29°30 | 4°47 | S 30 |
| M31 | 20 36 58 | 8 Ω 14'16 | 9 ,₹ 54 | 24 Ω 43 | 269513 | 16 Ω 46 | 1 Ⅱ 55 | 20 m 10 | 10 ට 26 | 27 × 753 | 17 Ⅱ 43 | 18 궁 16 | 17 る 9 | 29≈37 | 4 ₹ 146 | M31 |

Delta T = 38.79 sec

Greg. Calendar

AUGUST 1656 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ | ኊ | ¥ | Р | ß | ಬ | ţ | % | Day |
|------|----------|------------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|-----------------|-----------------|----------------|----------------|--------------|---------------|------|
| T 1 | 20 40 55 | 9Ω11'44 | 22 × 27 | 24°R21 | 279527 | 17 Ω 24 | 2 I 4 | 20 M 16 | 10°R24 | 27°R52 | 17 Ⅱ 44 | 18 궁 18 | 17ਰ 5 | 29≈43 | 4°R46 | T 1 |
| W 2 | 20 44 51 | 10° 9'12 | 4 ⋜ 46 | 23 £ 53 | 28°41 | 18° 2 | 2°13 | 20°22 | 10 る 22 | 27 × 751 | 17°45 | 18°19 | 17° 2 | 29°50 | 4 ₹ 45 | W 2 |
| T 3 | 20 48 48 | 11° 6'42 | 16°55 | 23°21 | 29°55 | 18°40 | 2°22 | 20°28 | 10°20 | 27°50 | 17°46 | 18°R20 | 16°59 | 29°57 | 4°45 | T 3 |
| F 4 | 20 52 44 | 12° 4'13 | 28°56 | 22°45 | 1 N 8 | 19°18 | 2°31 | 20°35 | 10°18 | 27°49 | 17°47 | 18°19 | 16°56 | 0 米 3 | 4°45 | F 4 |
| S 5 | 20 56 41 | 13° 1'44 | 10≈51 | 22° 4 | 2°22 | 19°56 | 2°40 | 20°41 | 10°16 | 27°48 | 17°48 | 18°18 | 16°53 | 0°10 | 4°45 | S 5 |
| S 6 | 21 0 37 | 13°59'17 | 22°43 | 21°20 | 3°36 | 20°34 | 2°48 | 20°48 | 10°14 | 27°47 | 17°49 | 18°15 | 16°50 | 0°17 | 4°D45 | S 6 |
| M 7 | 21 4 34 | 14°56'51 | 4) (33 | 20°33 | 4°50 | 21°13 | 2°57 | 20°54 | 10°12 | 27°46 | 17°49 | 18°11 | 16°46 | 0°23 | 4°45 | M 7 |
| T 8 | 21 8 31 | 15°54'26 | 16°23 | 19°44 | 6° 4 | 21°51 | 3° 5 | 21° 1 | 10°11 | 27°45 | 17°50 | 18° 6 | 16°43 | 0°30 | 4°45 | T 8 |
| W 9 | 21 12 27 | 16°52'03 | 28°17 | 18°54 | 7°18 | 22°29 | 3°13 | 21° 7 | 10° 9 | 27°44 | 17°51 | 18° 1 | 16°40 | 0°37 | 4°45 | W 9 |
| T 10 | 21 16 24 | 17°49'41 | 10 Υ 15 | 18° 4 | 8°32 | 23° 7 | 3°21 | 21°14 | 10° 7 | 27°43 | 17°52 | 17°57 | 16°37 | 0°43 | 4°45 | T 10 |
| F 11 | 21 20 20 | 18°47'20 | 22°23 | 17°14 | 9°46 | 23°45 | 3°29 | 21°20 | 10° 5 | 27°42 | 17°53 | 17°53 | 16°34 | 0°50 | 4°46 | F 11 |
| S 12 | 21 24 17 | 19°45'01 | 4842 | 16°27 | 11° 0 | 24°23 | 3°37 | 21°27 | 10° 4 | 27°41 | 17°53 | 17°51 | 16°31 | 0°57 | 4°46 | S 12 |
| S 13 | 21 28 13 | 20°42'44 | 17°17 | 15°41 | 12°14 | 25° 1 | 3°44 | 21°34 | 10° 2 | 27°41 | 17°54 | 17°D50 | 16°27 | 1° 4 | 4°47 | S 13 |
| M14 | 21 32 10 | 21°40'29 | 0 Ⅱ 12 | 15° 0 | 13°28 | 25°39 | 3°52 | 21°41 | 10° 0 | 27°40 | 17°55 | 17°50 | 16°24 | 1°10 | 4°48 | M14 |
| T 15 | 21 36 6 | 22°38'15 | 13°30 | 14°23 | 14°42 | 26°17 | 3°59 | 21°47 | 9°59 | 27°39 | 17°56 | 17°51 | 16°21 | 1°17 | 4°49 | T 15 |
| W16 | 21 40 3 | 23°36'03 | 27°13 | 13°51 | 15°56 | 26°56 | 4° 6 | 21°54 | 9°57 | 27°38 | 17°56 | 17°52 | 16°18 | 1°24 | 4°50 | W16 |
| T 17 | 21 44 0 | 24°33'52 | 119524 | 13°25 | 17°10 | 27°34 | 4°13 | 22° 1 | 9°56 | 27°38 | 17°57 | 17°R54 | 16°15 | 1°30 | 4°51 | T 17 |
| F 18 | 21 47 56 | 25°31'44 | 26° 0 | 13° 7 | 18°25 | 28°12 | 4°20 | 22° 8 | 9°54 | 27°37 | 17°58 | 17°53 | 16°11 | 1°37 | 4°52 | F 18 |
| S 19 | 21 51 53 | 26°29'37 | 10 Ω 57 | 12°55 | 19°39 | 28°50 | 4°27 | 22°15 | 9°53 | 27°36 | 17°58 | 17°52 | 16° 8 | 1°44 | 4°53 | S 19 |
| S 20 | 21 55 49 | 27°27'31 | 26° 8 | 12°D51 | 20°53 | 29°28 | 4°33 | 22°22 | 9°52 | 27°36 | 17°59 | 17°48 | 16° 5 | 1°50 | 4°54 | S 20 |
| M21 | 21 59 46 | 28°25'27 | 11 m 24 | 12°55 | 22° 7 | 0Mp 7 | 4°40 | 22°29 | 9°50 | 27°35 | 17°59 | 17°43 | 16° 2 | 1°57 | 4°55 | M21 |
| T 22 | 22 3 42 | 29°23'24 | 26°33 | 13° 7 | 23°22 | 0°45 | 4°46 | 22°36 | 9°49 | 27°34 | 18° 0 | 17°37 | 15°59 | 2° 4 | 4°57 | T 22 |
| W23 | 22 7 39 | 0 m 21'23 | 11 ≏ 27 | 13°27 | 24°36 | 1°23 | 4°52 | 22°43 | 9°48 | 27°34 | 18° 1 | 17°31 | 15°56 | 2°10 | 4°59 | W23 |
| T 24 | 22 11 35 | 1°19'23 | 25°57 | 13°55 | 25°50 | 2° 1 | 4°58 | 22°50 | 9°46 | 27°33 | 18° 1 | 17°25 | 15°52 | 2°17 | 5° 0 | T 24 |
| F 25 | 22 15 32 | 2°17'25 | 9 M 59 | 14°31 | 27° 5 | 2°39 | 5° 4 | 22°57 | 9°45 | 27°33 | 18° 2 | 17°22 | 15°49 | 2°24 | 5° 2 | F 25 |
| S 26 | 22 19 29 | 3°15'28 | 23°34 | 15°15 | 28°19 | 3°18 | 5° 9 | 23° 5 | 9°44 | 27°32 | 18° 2 | 17°19 | 15°46 | 2°30 | 5° 4 | S 26 |
| S 27 | 22 23 25 | 4°13'32 | 6 ₮ 41 | 16° 7 | 29°33 | 3°56 | 5°15 | 23°12 | 9°43 | 27°32 | 18° 3 | 17°D19 | 15°43 | 2°37 | 5° 6 | S 27 |
| M28 | 22 27 22 | 5°11'38 | 19°25 | 17° 6 | 0 m 48 | 4°34 | 5°20 | 23°19 | 9°42 | 27°32 | 18° 3 | 17°20 | 15°40 | 2°44 | 5° 8 | M28 |
| T 29 | 22 31 18 | 6° 9'45 | 1 궁 50 | 18°12 | 2° 2 | 5°12 | 5°25 | 23°26 | 9°41 | 27°31 | 18° 3 | 17°21 | 15°37 | 2°51 | 5°10 | T 29 |
| W30 | 22 35 15 | 7° 7'54 | 1 <u>4</u> ° 0 | 19°24 | 3°17 | 5°51 | 5°30 | 23°33 | 9°40 | 27°31 | 18° 4 | 17°R22 | 1 <u>5</u> °33 | 2°57 | 5°12 | W30 |
| T 31 | 22 39 11 | 8Mp 6'04 | 26중 0 | 20 Ω 43 | 4 m 31 | 6Mp29 | 5 Ⅱ 35 | 23 Mp 41 | 9 る 39 | 27 , 731 | 18 I I 4 | 17 る 22 | 15 る 30 | 3 ∺ 4 | 5 ₹ 15 | T 31 |

Delta T = 38.73 sec

SEPTEMBER 1656 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)Å(| ¥ | В | ß | v | ţ | Q K | Day |
|--------------|----------------------|-----------------------------|----------------------------|-------------------------|-------------------------|-------------------------|-----------------------|---------------------------|-----------------------|--------------------------|------------------------|--------------------------|--------------------------|-----------------------|-----------------------|--------------|
| F 1 | 22 43 8 | 9 m 4'16 | 7≈54 | 22 N 7 | 5 M)46 | 7 Mp 7 | 5 Ⅱ 39 | 23 Mp 48 | 9°R38 | 27°R31 | 18耳 5 | 17°R19 | 15 る 27 | 3 ∺ 11 | 5 ∤ 17 | F 1 |
| S 2 | 22 47 4 | 10° 2'29 | 19°44 | 23°36 | 7° 0 | 7°46 | 5°44 | 23°55 | 9 궁 37 | 27 × 30 | 18° 5 | 17 る 15 | 15°24 | 3°17 | 5°19 | S 2 |
| S 3 | 22 51 1 | 11° 0'44 | 1) 34 | 25° 9 | 8°15 | 8°24 | 5°48 | 24° 3 | 9°37 | 27°30 | 18° 5 | 17° 8 | 15°21 | 3°24 | 5°22 | S 3 |
| M 4 | 22 54 58 | 11°59'01 | 13°25 | 26°47 | 9°29 | 9° 2 | 5°52 | 24°10 | 9°36 | 27°30 | 18° 6 | 16°59 | 15°17 | 3°31 | 5°25 | M 4 |
| T 5 W 6 | 22 58 54 23 2 51 | 12°57'20 13°55'40 | 25°19 7 ⋎ 19 | 28°28 0 m)11 | 10°44 11°58 | 9°41 10°19 | 5°56 6° 0 | 24°17 24°25 | 9°35 9°35 | 27°30 27°30 | 18° 6 18° 6 | 16°48 16°38 | 15°14 15°11 | 3°37 3°44 | 5°27 5°30 | T 5 W 6 |
| T 7 | 23 6 47 | 13° 53' 40' 14° 54' 02 | 19°24 | 1°58 | 11 38 13°13 | 10 19 10°57 | 6° 3 | 24°23 | 9°34 | 27°30 | 18° 6 | 16°27 | 15° 8 | 3°51 | 5°33 | T 7 |
| F 8 | 23 10 44 | 15°52'27 | 1838 | 3°46 | 14°28 | 11°36 | 6° 6 | 24°39 | 9°34 | 27°D30 | 18° 7 | 16°18 | 15° 5 | 3°57 | 5°36 | F 8 |
| S 9 | 23 14 40 | 16°50'54 | 14° 1 | 5°35 | 15°42 | 12°14 | 6° 9 | 24°47 | 9°33 | 27°30 | 18° 7 | 16°11 | 15° 2 | 4° 4 | 5°39 | S 9 |
| S 10 | 23 18 37 | 17°49'22 | 26°38 | 7°26 | 16°57 | 12°52 | 6°12 | 24°54 | 9°33 | 27°30 | 18° 7 | 16° 7 | 14°58 | 4°11 | 5°43 | S 10 |
| M11 | 23 22 33 | 18°47'53 | 9 Ⅲ 31 | 9°18 | 18°12 | 13°31 | 6°15 | 25° 2 | 9°32 | 27°30 | 18° 7 | 16° 4 | 14°55 | 4°17 | 5°46 | M11 |
| T 12 | 23 26 30 | 19°46'27 | 22°43 | 11°10 | 19°26 | 14° 9 | 6°18 | 25° 9 | 9°32 | 27°30 | 18° 7 | 16°D 4 | 14°52 | 4°24 | 5°49 | T 12 |
| W13 T 14 | 23 30 27 23 34 23 | 20°45'02 21°43'40 | 6 © 17 20°15 | 13° 2 14°55 | 20°41 21°56 | 14°48 15°26 | 6°20 6°22 | 25°16 25°24 | 9°32 9°31 | 27°30 27°30 | 18° 7 18° 7 | 16° 5 16°R 5 | 14°49 14°46 | 4°31 4°38 | 5°53 5°56 | W13 T 14 |
| F 15 | 23 34 23 23 38 20 | 21°43°40 22°42'20 | $4\Omega^{39}$ | 16°47 | 21°36 23°11 | 15°26 16° 5 | 6°24 | 25°24 25°31 | 9°31 | 27°30 27°30 | 18° 7 | 16° K 3 | 14°46 14°42 | 4°38 4°44 | 6° 0 | F 15 |
| S 16 | 23 42 16 | 23°41'02 | 19°25 | 18°39 | 24°25 | 16°43 | 6°26 | 25°39 | 9°31 | 27°31 | 18° 7 | 16° 0 | 14°39 | 4°51 | 6° 3 | S 16 |
| S 17 | 23 46 13 | 24°39'46 | 4 m)29 | 20°30 | 25°40 | 17°21 | 6°28 | 25°46 | 9°31 | 27°31 | 18°R 7 | 15°54 | 14°36 | 4°58 | 6° 7 | S 17 |
| M18 | 23 50 9 | 25°38'32 | 19°42 | 22°21 | 26°55 | 18° 0 | 6°29 | 25°54 | 9°D31 | 27°31 | 18° 7 | 15°45 | 14°33 | 5° 4 | 6°11 | M18 |
| T 19 | 23 54 6 | 26°37'20 | 4 Ω 53 | 24°11 | 28°10 | 18°39 | 6°30 | 26° 1 | 9°31 | 27°31 | 18° 7 | 15°35 | 14°30 | 5°11 | 6°15 | T 19 |
| W20 | 23 58 2 | 27°36'11 | 19°52 | 26° 0 | 29°25 | 19°17 | 6°31 | 26° 9 | 9°31 | 27°32 | 18° 7 | 15°24 | 14°27 | 5°18 | 6°19 | W20 |
| T 21 F 22 | 0 1 59 0 5 56 | 28°35'03 29°33'57 | 4MJ30 18°40 | 27°49 29°37 | 0 ჲ 39 1°54 | 19°56 20°34 | 6°32 6°32 | 26°16 26°23 | 9°31 9°31 | 27°32 27°33 | 18° 7 18° 7 | 15°15 15° 7 | 14°23 14°20 | 5°24 5°31 | 6°23 6°27 | T 21 F 22 |
| S 23 | 0 9 52 | 0 △ 32'53 | 2 × ⁷ 21 | 1 ≏ 24 | 3° 9 | 21°13 | 6°33 | 26°31 | 9°32 | 27°33 | 18° 7 | 15° 2 | 14°17 | 5°38 | 6°31 | S 23 |
| S 24 | 0 13 49 | 1°31'51 | 15°33 | 3°10 | 4°24 | 21°51 | 6°R33 | 26°38 | 9°32 | 27°34 | 18° 7 | 14°59 | 14°14 | 5°44 | 6°36 | S 24 |
| M25 | 0 17 45 | 2°30'50 | 28°19 | 4°55 | 5°39 | 22°30 | 6°33 | 26°46 | 9°32 | 27°34 | 18° 7 | 14°D58 | 14°11 | 5°51 | 6°40 | M25 |
| T 26 | 0 21 42 | 3°29'51 | 10 ට 43 | 6°40 | 6°54 | 23° 9 | 6°33 | 26°53 | 9°33 | 27°35 | 18° 7 | 14°R58 | 14° 8 | 5°58 | 6°45 | T 26 |
| W27 | 0 25 38 | 4°28'54 | 22°51 | 8°23 | 8° 9 | 23°47 | 6°32 | 27° 1 | 9°33 | 27°35 | 18° 6 | 14°58 | 14° 4 | 6° 5 | 6°49 | W27 |
| T 28 | 0 29 35 | 5°27'59 | 4≈48 | 10° 6 | 9°23 | 24°26 | 6°32 | 27° 8 | 9°34 | 27°36 | 18° 6 | 14°56 | 14° 1 | 6°11 | 6°54 | T 28 |
| F 29 S 30 | 0 33 31 0 37 28 | 6°27'06 7 ≙ 26'14 | 16°38 28 ≈ 27 | 11°48 13 Ω 29 | 10°38 11 ♀ 53 | 25° 4 25 m 43 | 6°31 6 Ⅲ 30 | 27°15 27 m) 23 | 9°34 9 ⋜ 35 | 27°37 27 × 737 | 18° 6 18 Ⅱ 6 | 14°53 14 ~ 346 | 13°58 13 ~5 55 | 6°18 6 ∺ 25 | 6°58 7 ∡7 3 | F 29 S 30 |
| 3 30 | 03/28 | /==20 14 | ∠o ~ ∠/ | 13=29 | 11==33 | 2+کیاا د∠ | одзо | 2/ الله / 2 | 9033 | 21 X .31 | 10Т 0 | 14040 | 13033 | 07(23 | 12. 3 | 3 30 |

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Greg. Calendar

OCTOBER 1656 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| ¥ | В | U | ß | Ç | ę, | Day |
|------|---------|-------------------|-----------------|----------------|----------------|----------------|---------------|-----------------|----------------|-----------------|----------------|----------------|----------------|---------------|----------------|------|
| S 1 | 0 41 24 | 8 ≏ 25'24 | 10) €18 | 15 ♀ 9 | 13 ₾ 8 | 26M/22 | 6°R29 | 27 m /30 | 9 ට 35 | 27 ∡ ³38 | 18°R 5 | 14°R37 | 13 る 52 | 6 ∺ 31 | 7 ,₹ 8 | S 1 |
| M 2 | 0 45 21 | 9°24'36 | 22°13 | 16°48 | 14°23 | 27° 1 | 6 Ⅱ 27 | 27°37 | 9°36 | 27°39 | 18 I 5 | 14 궁 25 | 13°48 | 6°38 | 7°13 | M 2 |
| T 3 | 0 49 18 | 10°23'51 | 4 Υ 14 | 18°27 | 15°38 | 27°39 | 6°26 | 27°45 | 9°37 | 27°40 | 18° 5 | 14°11 | 13°45 | 6°45 | 7°18 | T 3 |
| W 4 | 0 53 14 | 11°23'07 | 16°23 | 20° 5 | 16°53 | 28°18 | 6°24 | 27°52 | 9°38 | 27°40 | 18° 4 | 13°57 | 13°42 | 6°51 | 7°23 | W 4 |
| T 5 | 0 57 11 | 12°22'25 | 28°40 | 21°42 | 18° 8 | 28°57 | 6°22 | 27°59 | 9°38 | 27°41 | 18° 4 | 13°43 | 13°39 | 6°58 | 7°28 | T 5 |
| F 6 | 1 1 7 | 13°21'46 | 118 7 | 23°18 | 19°23 | 29°35 | 6°20 | 28° 7 | 9°39 | 27°42 | 18° 4 | 13°31 | 13°36 | 7° 5 | 7°33 | F 6 |
| S 7 | 1 5 4 | 14°21'08 | 23°43 | 24°54 | 20°38 | 0 ჲ 14 | 6°17 | 28°14 | 9°40 | 27°43 | 18° 3 | 13°22 | 13°33 | 7°11 | 7°38 | S 7 |
| S 8 | 1 9 0 | 15°20'33 | 6 Ⅱ 30 | 26°29 | 21°53 | 0°53 | 6°15 | 28°21 | 9°41 | 27°44 | 18° 3 | 13°15 | 13°29 | 7°18 | 7°43 | S 8 |
| M 9 | 1 12 57 | 16°20'01 | 19°29 | 28° 3 | 23° 8 | 1°32 | 6°12 | 28°28 | 9°42 | 27°45 | 18° 2 | 13°11 | 13°26 | 7°25 | 7°49 | M 9 |
| T 10 | 1 16 53 | 17°19'30 | 2 95 43 | 29°36 | 24°23 | 2°11 | 6° 9 | 28°36 | 9°43 | 27°46 | 18° 2 | 13°10 | 13°23 | 7°32 | 7°54 | T 10 |
| W11 | 1 20 50 | 18°19'02 | 16°13 | 1 M 9 | 25°38 | 2°50 | 6° 5 | 28°43 | 9°45 | 27°47 | 18° 1 | 13°10 | 13°20 | 7°38 | 7°59 | W11 |
| T 12 | 1 24 47 | 19°18'36 | 0Ω 3 | 2°42 | 26°53 | 3°29 | 6° 2 | 28°50 | 9°46 | 27°48 | 18° 1 | 13°10 | 13°17 | 7°45 | 8° 5 | T 12 |
| F 13 | 1 28 43 | 20°18'13 | 14°12 | 4°13 | 28° 8 | 4° 7 | 5°58 | 28°57 | 9°47 | 27°49 | 18° 0 | 13° 8 | 13°14 | 7°52 | 8°10 | F 13 |
| S 14 | 1 32 40 | 21°17'52 | 28°40 | 5°44 | 29°23 | 4°46 | 5°55 | 29° 4 | 9°48 | 27°50 | 18° 0 | 13° 4 | 13°10 | 7°58 | 8°16 | S 14 |
| S 15 | 1 36 36 | 22°17'33 | 13 m 24 | 7°15 | 0 M .38 | 5°25 | 5°51 | 29°11 | 9°50 | 27°52 | 17°59 | 12°58 | 13° 7 | 8° 5 | 8°22 | S 15 |
| M16 | 1 40 33 | 23°17'16 | 28°18 | 8°44 | 1°53 | 6° 4 | 5°47 | 29°18 | 9°51 | 27°53 | 17°59 | 12°48 | 13° 4 | 8°12 | 8°27 | M16 |
| T 17 | 1 44 29 | 24°17'02 | 13 ≏ 14 | 10°14 | 3° 8 | 6°43 | 5°42 | 29°25 | 9°52 | 27°54 | 17°58 | 12°37 | 13° 1 | 8°18 | 8°33 | T 17 |
| W18 | 1 48 26 | 25°16'49 | 28° 2 | 11°42 | 4°23 | 7°22 | 5°38 | 29°32 | 9°54 | 27°55 | 17°57 | 12°26 | 12°58 | 8°25 | 8°39 | W18 |
| T 19 | 1 52 22 | 26°16'39 | 12 M 34 | 13°10 | 5°38 | 8° 1 | 5°33 | 29°39 | 9°55 | 27°57 | 17°57 | 12°15 | 12°54 | 8°32 | 8°45 | T 19 |
| F 20 | 1 56 19 | 27°16'30 | 26°44 | 14°37 | 6°53 | 8°40 | 5°28 | 29°46 | 9°57 | 27°58 | 17°56 | 12° 6 | 12°51 | 8°39 | 8°51 | F 20 |
| S 21 | 2 0 16 | 28°16'24 | 10 渘 27 | 16° 4 | 8° 8 | 9°19 | 5°23 | 29°53 | 9°59 | 27°59 | 17°55 | 12° 0 | 12°48 | 8°45 | 8°57 | S 21 |
| S 22 | 2 4 12 | 29°16'19 | 23°42 | 17°30 | 9°23 | 9°58 | 5°18 | 29°59 | 10° 0 | 28° 1 | 17°55 | 11°56 | 12°45 | 8°52 | 9° 3 | S 22 |
| M23 | 2 8 9 | 0 M .16'16 | 6 ප 31 | 18°55 | 10°38 | 10°37 | 5°13 | 0요 7 | 10° 2 | 28° 2 | 17°54 | 11°D55 | 12°42 | 8°59 | 9° 9 | M23 |
| T 24 | 2 12 5 | 1°16'14 | 18°59 | 20°19 | 11°53 | 11°17 | 5° 7 | 0°14 | 10° 4 | 28° 3 | 17°53 | 11°55 | 12°39 | 9° 5 | 9°15 | T 24 |
| W25 | 2 16 2 | 2°16'15 | 1≈ 9 | 21°43 | 13° 8 | 11°56 | 5° 1 | 0°20 | 10° 6 | 28° 5 | 17°52 | 11°R55 | 12°35 | 9°12 | 9°21 | W25 |
| T 26 | 2 19 58 | 3°16'16 | 13° 7 | 23° 5 | 14°23 | 12°35 | 4°55 | 0°27 | 10° 7 | 28° 6 | 17°52 | 11°55 | 12°32 | 9°19 | 9°27 | T 26 |
| F 27 | 2 23 55 | 4°16'20 | 24°58 | 24°27 | 15°38 | 13°14 | 4°49 | 0°34 | 10° 9 | 28° 8 | 17°51 | 11°52 | 12°29 | 9°25 | 9°34 | F 27 |
| S 28 | 2 27 51 | 5°16'25 | 6) 48 | 25°48 | 16°53 | 13°53 | 4°43 | 0°40 | 10°11 | 28° 9 | 17°50 | 11°48 | 12°26 | 9°32 | 9°40 | S 28 |
| S 29 | 2 31 48 | 6°16'31 | 18°41 | 27° 8 | 18° 8 | 14°32 | 4°37 | 0°47 | 10°13 | 28°11 | 17°49 | 11°40 | 12°23 | 9°39 | 9°46 | S 29 |
| M30 | 2 35 45 | 7°16'39 | 0 Υ 40 | 28°27 | 19°23 | 15°12 | 4°31 | 0°53 | 10°15 | 28°12 | 17°48 | 11°31 | 12°19 | 9°46 | 9°53 | M30 |
| T 31 | 2 39 41 | 8M16'49 | 12 Y 48 | 29 M 44 | 20 M 38 | 15 ≏ 51 | 4∏24 | 1 ♀ 0 | 10 ਰ 17 | 28 × 14 | 17 Ⅲ 48 | 11 る 20 | 12 궁 16 | 9 ∺ 52 | 9 .7 59 | T 31 |

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| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |) / (| 并 | В | ₽. | Ω | ţ | ę k | Day |
|--------------|--------------------|-----------------------------|------------------------|----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-------------------------|-------------------------|-------------------------|-----------------------|-------------------------|-------------------------|-------------------------|--------------|
| W 1 | 2 43 38 | 9 M .17'01 | 25 Y 8 | 1 ₹ 0 | 21 M 53 | 16 ≏ 30 | 4°R17 | 1 º 6 | 10 ට 19 | 28 × 16 | 17°R47 | 11°R 8 | 12 ට 13 | 9 米 59 | 10 × 5 | W 1 |
| T 2 | 2 47 34 | 10°17'14 | 7 8 40 | 2°14 | 23° 8 | 17° 9 | 4 Ⅱ 11 | 1°12 | 10°22 | 28°17 | 17 Ⅱ 46 | 10 ප 56 | 12°10 | 10° 6 | 10°12 | T 2 |
| F 3 | 2 51 31 | 11°17'29 | 20°23 | 3°27 | 24°23 | 17°49 | 4° 4 | 1°19 | 10°24 | 28°19 | 17°45 | 10°46 | 12° 7 | 10°12 | 10°18 | F 3 |
| S 4 | 2 55 27 | 12°17'46 | 3 Ⅱ 18 | 4°38 | 25°38 | 18°28 | 3°57 | 1°25 | 10°26 | 28°21 | 17°44 | 10°38 | 12° 4 | 10°19 | 10°25 | S 4 |
| S 5 | 2 59 24 | 13°18'05 | 16°25 | 5°46 | 26°53 | 19° 7 | 3°49 | 1°31 | 10°28 | 28°22 | 17°43 | 10°33 | 12° 0 | 10°26 | 10°31 | S 5 |
| M 6 | 3 3 20 | 14°18'26 | 29°42 | 6°52 | 28° 8 | 19°47 | 3°42 | 1°37 | 10°31 | 28°24 | 17°42 | 10°30 | 11°57 | 10°32 | 10°38 | M 6 |
| T 7 | 3 7 17 | 15°18'48 | 139510 | 7°56 | 29°24 | 20°26 | 3°35 | 1°43 | 10°33 | 28°26 | 17°41 | 10°D30 | 11°54 | 10°39 | 10°45 | T 7 |
| W 8 | 3 11 14 | 16°19'13 | 26°49 | 8°56 | 0 ₹ 39 | 21° 5 | 3°27 | 1°50 | 10°35 | 28°28 | 17°40 | 10°30 | 11°51 | 10°46 | 10°51 | W 8 |
| T 9 | 3 15 10 | 17°19'39 | 10 Ω 40 | 9°53 | 1°54 | 21°45 | 3°20 | 1°55 | 10°38 | 28°29 | 17°39 | 10°R31 | 11°48 | 10°53 | 10°58 | T 9 |
| F 10 | 3 19 7 | 18°20'08 | 24°42 | 10°46 | 3° 9 | 22°24 23° 4 | 3°12 | 2° 1 2° 7 | 10°40 | 28°31 | 17°38 | 10°31 | 11°45 | 10°59 11° 6 | 11° 5 | F 10 S 11 |
| S 11 | 3 23 3 | 19°20'38 | 8 m 55 | 11°35 | 4°24 | 23° 4 | 3° 4 | 2 / | 10°43 | 28°33 | 17°37 | 10°30 | 11°41 | 11, 6 | 11°11 | 5 11 |
| S 12 | 3 27 0 | 20°21'10 | 23°17 | 12°18 | 5°39 | 23°43 | 2°57 | 2°13 | 10°45 | 28°35 | 17°36 | 10°26 | 11°38 | 11°13 | 11°18 | S 12 |
| M13 | 3 30 56 | 21°21'44 | 7 ≏ 45 | 12°56 | 6°54 | 24°23 | 2°49 | 2°19 | 10°48 | 28°37 | 17°35 | 10°20 | 11°35 | 11°19 | 11°25 | M13 |
| T 14 | 3 34 53 | 22°22'20 | 22°14 | 13°28 | 8° 9 | 25° 2 | 2°41 | 2°24 | 10°51 | 28°39 | 17°34 | 10°12 | 11°32 | 11°26 | 11°32 | T 14 |
| W15 | 3 38 49 | 23°22'57 | 6M38 | 13°53 | 9°24 | 25°42 | 2°33 | 2°30 | 10°53 | 28°41 | 17°33 | 10° 4 | 11°29 | 11°33 | 11°39 | W15 |
| T 16 | 3 42 46 | 24°23'36 | 20°49 | 14°10 | 10°39 | 26°21 | 2°25 | 2°36 | 10°56 | 28°43 | 17°32 | 9°57 | 11°25 | 11°39 | 11°46 | T 16 F 17 |
| F 17 | 3 46 43 | 25°24'17 | 4 ~ 744 | 14°R19 14°18 | 11°54 13° 9 | 27° 1 27°41 | 2°17 2° 9 | 2°41 2°47 | 10°59 11° 1 | 28°45 28°47 | 17°31 17°30 | 9°50 9°46 | 11°22 11°19 | 11°46 11°53 | 11°52 11°59 | S 18 |
| S 18 | 3 50 39 | 26°24'59 | 18°18 | _ | | | - | - | | | | | _ | | | |
| S 19 | 3 54 36 | 27°25'42 | 1 る 29 | 14° 7 | 14°24 | 28°20 | 2° 1 | 2°52 | 11° 4 | 28°49 | 17°29 | 9°44 | 11°16 | 12° 0 | 12° 6 | S 19 |
| M20 | 3 58 32 | 28°26'26 | 14°18 | 13°46 | 15°39 | 29° 0 | 1°52 | 2°57 | 11° 7 | 28°51 | 17°28 | 9°D44 | 11°13 | 12° 6 | 12°13 | M20 |
| T 21 | 4 2 29 | 29°27'12 | 26°47 | 13°14 | 16°54 | 29°40 | 1°44 | 3° 2 | 11°10 | 28°53 | 17°27 | 9°45 | 11°10 | 12°13 | 12°20 | T 21 |
| W22 | 4 6 25 | 0 ₹ 27'58 | 9 ≈ 0 21° 0 | 12°31 | 18° 9 19°24 | 0 M .19 | 1°36 | 3° 7 | 11°13 | 28°55 | 17°26 | 9°47 9°48 | 11° 6 | 12°20 | 12°27 | W22 |
| T 23 F 24 | 4 10 22 4 14 18 | 1°28'46 2°29'34 | 21° 0 2) 53 | 11°38 10°35 | 19°24 20°39 | 0°59 1°39 | 1°28 1°20 | 3°13 3°18 | 11°16 11°19 | 28°57 28°59 | 17°24 17°23 | 9°48 9°R49 | 11° 3 11° 0 | 12°26 12°33 | 12°34 12°41 | T 23 F 24 |
| S 25 | 4 14 18 4 18 15 | 3°30'24 | 14°44 | 9°24 | 20°54 | 2°18 | 1°11 | 3°22 | 11 19 11°22 | 28 39 29° 1 | 17°23 | 9°48 | 10°57 | 12°33 | 12°48 | S 25 |
| | | | | _ | | | | | | - | | | | _ | _ | |
| S 26 | 4 22 12 | 4°31'14 | 26°38 | 8° 6 | 23° 9 | 2°58 | 1° 3 | 3°27 | 11°25 | 29° 3 | 17°21 | 9°45 | 10°54 | 12°47 | 12°55 | S 26 |
| M27 | 4 26 8 | 5°32'05 | 8 Υ 40 | 6°44 | 24°24 | 3°38 | 0°55 | 3°32 | 11°28 | 29° 5 | 17°20 | 9°41 | 10°51 | 12°53 | 13° 2 | M27 |
| T 28 | 4 30 5 | 6°32'58 | 20°52 | 5°22 4° 0 | 25°39 | 4°18 | 0°47 | 3°37 | 11°31 | 29° 7 29° 9 | 17°19 17°18 | 9°36 9°31 | 10°47 | 13° 0 13° 7 | 13° 9 13°16 | T 28 |
| W29 T 30 | 4 34 1 4 37 58 | 7°33'51 8 × 34'45 | 3 8 19 | 4° 0 2 ⁄ 3 | 26°54 28 ×7 9 | 4°58 5 ™ 38 | 0°39 0 Ⅲ 31 | 3°41 3 ≙ 46 | 11°34 11 る 37 | 29° 9 29 × 11 | 17°18 17 Ⅱ 16 | 9°31 9 石 25 | 10°44 10 ♂ 41 | 13° / 13 ¥ 13 | 13°16 13 × 23 | W29 T 30 |
| 1 30 | 43/30 | 08.3443 | 100 2 | ZX.43 | 20 X . 9 | פכאווכ | одзі | J==40 | 1103/ | 73×11 | 1/Д10 | 9023 | 10041 | 13/(13 | 138.23 | 1 30 |

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Greg. Calendar

DECEMBER 1656 GC 00:00 UT

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|------|---------|-------------------|-----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|-----------------|---------------|--------------|-----------------|----------------|------|
| F 1 | 4 41 54 | 9 × 735'40 | 29 8 2 | 1°R33 | 29 × 24 | 6 M 17 | 0°R23 | 3 ≙ 50 | 11 る 40 | 29 × 14 | 17°R15 | 9°R20 | 10る38 | 13) (20 | 13 ∡ 30 | F 1 |
| S 2 | 4 45 51 | 10°36'36 | 12 II 18 | 0 ∡ 31 | 0 궁 39 | 6°57 | 0 耳 15 | 3°55 | 11°43 | 29°16 | 17 I I14 | 9 ට 16 | 10°35 | 13°27 | 13°37 | S 2 |
| S 3 | 4 49 47 | 11°37'33 | 25°49 | 29 M 40 | 1°54 | 7°37 | 0° 7 | 3°59 | 11°46 | 29°18 | 17°13 | 9°14 | 10°31 | 13°33 | 13°44 | S 3 |
| M 4 | 4 53 44 | 12°38'31 | 9932 | 28°59 | 3° 9 | 8°17 | 29 8 59 | 4° 3 | 11°50 | 29°20 | 17°12 | 9°D14 | 10°28 | 13°40 | 13°51 | M 4 |
| T 5 | 4 57 41 | 13°39'30 | 23°26 | 28°29 | 4°24 | 8°57 | 29°52 | 4° 7 | 11°53 | 29°22 | 17°11 | 9°14 | 10°25 | 13°47 | 13°58 | T 5 |
| W 6 | 5 1 37 | 14°40'30 | 7Ω 27 | 28°11 | 5°38 | 9°37 | 29°44 | 4°11 | 11°56 | 29°25 | 17° 9 | 9°16 | 10°22 | 13°54 | 14° 6 | W 6 |
| T 7 | 5 5 34 | 15°41'31 | 21°33 | 28°D 4 | 6°53 | 10°17 | 29°36 | 4°15 | 11°59 | 29°27 | 17° 8 | 9°17 | 10°19 | 14° 0 | 14°13 | T 7 |
| F 8 | 5 9 30 | 16°42'33 | 5 m) 42 | 28° 7 | 8° 8 | 10°57 | 29°29 | 4°19 | 12° 3 | 29°29 | 17° 7 | 9°18 | 10°16 | 14° 7 | 14°20 | F 8 |
| S 9 | 5 13 27 | 17°43'36 | 19°52 | 28°20 | 9°23 | 11°37 | 29°21 | 4°22 | 12° 6 | 29°31 | 17° 6 | 9°R19 | 10°12 | 14°14 | 14°27 | S 9 |
| S 10 | 5 17 23 | 18°44'40 | 4 ♀ 2 | 28°41 | 10°38 | 12°17 | 29°14 | 4°26 | 12° 9 | 29°33 | 17° 5 | 9°18 | 10° 9 | 14°20 | 14°34 | S 10 |
| M11 | 5 21 20 | 19°45'45 | 18° 9 | 29°10 | 11°53 | 12°57 | 29° 7 | 4°30 | 12°13 | 29°36 | 17° 4 | 9°16 | 10° 6 | 14°27 | 14°41 | M11 |
| T 12 | 5 25 16 | 20°46'52 | 2 M _10 | 29°47 | 13° 8 | 13°38 | 29° 0 | 4°33 | 12°16 | 29°38 | 17° 2 | 9°14 | 10° 3 | 14°34 | 14°48 | T 12 |
| W13 | 5 29 13 | 21°47'59 | 16° 4 | 0 ₹ 29 | 14°23 | 14°18 | 28°53 | 4°37 | 12°20 | 29°40 | 17° 1 | 9°11 | 10° 0 | 14°41 | 14°55 | W13 |
| T 14 | 5 33 10 | 22°49'06 | 29°47 | 1°18 | 15°38 | 14°58 | 28°46 | 4°40 | 12°23 | 29°42 | 17° 0 | 9° 9 | 9°57 | 14°47 | 15° 2 | T 14 |
| F 15 | 5 37 6 | 23°50'15 | 13 × 16 | 2°11 | 16°52 | 15°38 | 28°39 | 4°43 | 12°26 | 29°45 | 16°59 | 9° 7 | 9°53 | 14°54 | 15° 9 | F 15 |
| S 16 | 5 41 3 | 24°51'24 | 26°30 | 3° 8 | 18° 7 | 16°18 | 28°33 | 4°46 | 12°30 | 29°47 | 16°58 | 9° 6 | 9°50 | 15° 1 | 15°16 | S 16 |
| S 17 | 5 44 59 | 25°52'33 | 9 ප 27 | 4°10 | 19°22 | 16°59 | 28°26 | 4°49 | 12°33 | 29°49 | 16°57 | 9°D 5 | 9°47 | 15° 7 | 15°23 | S 17 |
| M18 | 5 48 56 | 26°53'43 | 22° 8 | 5°15 | 20°37 | 17°39 | 28°20 | 4°52 | 12°37 | 29°51 | 16°55 | 9° 6 | 9°44 | 15°14 | 15°30 | M18 |
| T 19 | 5 52 52 | 27°54'53 | 4≈33 | 6°22 | 21°52 | 18°19 | 28°14 | 4°55 | 12°40 | 29°54 | 16°54 | 9° 7 | 9°41 | 15°21 | 15°36 | T 19 |
| W20 | 5 56 49 | 28°56'03 | 16°45 | 7°33 | 23° 6 | 18°59 | 28° 8 | 4°57 | 12°44 | 29°56 | 16°53 | 9° 8 | 9°37 | 15°28 | 15°43 | W20 |
| T 21 | 6 0 46 | 2 <u>9</u> °57'14 | 28°46 | 8°45 | 24°21 | 19°40 | 28° 2 | 5° 0 | 12°47 | 29°58 | 16°52 | 9° 9 | 9°34 | 15°34 | 15°50 | T 21 |
| F 22 | 6 4 42 | 0중58'24 | 10 ∺ 40 | 10° 0 | 25°36 | 20°20 | 27°56 | 5° 2 | 12°51 | 0ਰ 1 | 16°51 | 9°10 | 9°31 | 15°41 | 15°57 | F 22 |
| S 23 | 6 8 39 | 1°59'34 | 22°31 | 11°16 | 26°51 | 21° 0 | 27°50 | 5° 5 | 12°54 | 0° 3 | 16°50 | 9°10 | 9°28 | 15°48 | 16° 4 | S 23 |
| S 24 | 6 12 35 | 3° 0'44 | 4 Υ 25 | 12°34 | 28° 5 | 21°41 | 27°45 | 5° 7 | 12°58 | 0° 5 | 16°49 | 9°R10 | 9°25 | 15°54 | 16°11 | S 24 |
| M25 | 6 16 32 | 4° 1'54 | 16°25 | 13°54 | 29°20 | 22°21 | 27°40 | 5° 9 | 13° 1 | 0° 7 | 16°48 | 9°10 | 9°22 | 16° 1 | 16°18 | M25 |
| T 26 | 6 20 28 | 5° 3'04 | 28°37 | 15°15 | 0≈35 | 23° 1 | 27°35 | 5°11 | 13° 5 | 0°10 | 16°46 | 9°10 | 9°18 | 16° 8 | 16°24 | T 26 |
| W27 | 6 24 25 | 6° 4'14 | 118 4 | 16°37 | 1°49 | 23°42 | 27°30 | 5°13 | 13° 8 | 0°12 | 16°45 | 9° 9 | 9°15 | 16°15 | 16°31 | W27 |
| T 28 | 6 28 21 | 7° 5'24 | 23°51 | 18° 0 | 3° 4 | 24°22 | 27°25 | 5°15 | 13°12 | 0°14 | 16°44 | 9° 9 | 9°12 | 16°21 | 16°38 | T 28 |
| F 29 | 6 32 18 | 8° 6'33 | 6耳59 | 19°23 | 4°19 | 25° 3 | 27°21 | 5°17 | 13°15 | 0°16 | 16°43 | 9° 9 | 9° 9 | 16°28 | 16°45 | F 29 |
| S 30 | 6 36 15 | 9° 7'42 | 20°29 | 20°48 | 5°33 | 25°43 | 27°16 | 5°19 | 13°19 | 0°19 | 16°42 | 9°D 9 | 9° 6 | 16°35 | 16°51 | S 30 |
| S 31 | 6 40 11 | 10궁 8'51 | 4920 | 22 × 14 | 6≈48 | 26 M 24 | 27 8 12 | 5 ₽ 20 | 13 る 23 | 0 ට 21 | 16 II 41 | 9°R 9 | 9 ප 3 | 16 米 41 | 16 ₹ 58 | S 31 |

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| M 1 | 6 44 8 | 11 궁 10'00 | 18929 | 23 × 740 | 8≈ 2 | 27 M 4 | 27°R 8 | 5 Ω 22 | 13 る 26 | 0 궁 23 | 16°R40 | 9°R 9 | 8 궁 59 | 16) (48 | 17 ⁄7 4 | M 1 |
| T 2 | 6 48 4 | 12°11'09 | 2Ω 52 | 25° 7 | 9°17 | 27°45 | 278 4 | 5°23 | 13°30 | 0°25 | 16耳39 | 9 ろ 9 | 8°56 | 16°55 | 17°11 | T 2 |
| W 3 | 6 52 1 | 13°12'18 | 17°23 | 26°34 | 10°31 | 28°26 | 27° 1 | 5°24 | 13°33 | 0°28 | 16°38 | 9° 8 | 8°53 | 17° 2 | 17°18 | W 3 |
| T 4 | 6 55 57 | 14°13'27 | 1 m 56 | 28° 2 | 11°46 | 29° 6 | 26°57 | 5°25 | 13°37 | 0°30 | 16°37 | 9° 8 | 8°50 | 17° 8 | 17°24 | T 4 |
| F 5 | 6 59 54 | 15°14'35 | 16°27 | 29°31 | 13° 0 | 29°47 | 26°54 | 5°26 | 13°40 | 0°32 | 16°36 | 9° 7 | 8°47 | 17°15 | 17°31 | F 5 |
| S 6 | 7 3 50 | 16°15'43 | 0 ჲ 49 | 1ਰ 1 | 14°14 | 0 ∡ 127 | 26°51 | 5°27 | 13°44 | 0°34 | 16°35 | 9° 7 | 8°43 | 17°22 | 17°37 | S 6 |
| S 7 | 7 7 47 | 17°16'52 | 15° 1 | 2°30 | 15°29 | 1° 8 | 26°48 | 5°28 | 13°48 | 0°37 | 16°34 | 9°D 6 | 8°40 | 17°28 | 17°43 | S 7 |
| M 8 | 7 11 44 | 18°18'00 | 28°59 | 4° 1 | 16°43 | 1°49 | 26°46 | 5°29 | 13°51 | 0°39 | 16°33 | 9° 6 | 8°37 | 17°35 | 17°50 | M 8 |
| T 9 | 7 15 40 | 19°19'09 | 12 M .43 | 5°32 | 17°57 | 2°29 | 26°43 | 5°29 | 13°55 | 0°41 | 16°32 | 9° 7 | 8°34 | 17°42 | 17°56 | T 9 |
| W10 | 7 19 37 | 20°20'17 | 26°13 | 7° 3 | 19°12 | 3°10 | 26°41 | 5°30 | 13°58 | 0°43 | 16°31 | 9° 8 | 8°31 | 17°49 | 18° 2 | W10 |
| T 11 | 7 23 33 | 21°21'25 | 9 × ⁷ 29 | 8°35 | 20°26 | 3°51 | 26°39 | 5°30 | 14° 2 | 0°45 | 16°30 | 9° 9 | 8°28 | 17°55 | 18° 9 | T 11 |
| F 12 | 7 27 30 | 22°22'33 | 22°32 | 10° 8 | 21°40 | 4°32 | 26°37 | 5°30 | 14° 5 | 0°47 | 16°29 | 9°10 | 8°24 | 18° 2 | 18°15 | F 12 |
| S 13 | 7 31 26 | 23°23'40 | 5 중 22 | 11°41 | 22°54 | 5°13 | 26°35 | 5°30 | 14° 9 | 0°50 | 16°28 | 9°R11 | 8°21 | 18° 9 | 18°21 | S 13 |
| S 14 | 7 35 23 | 24°24'47 | 18° 0 | 13°15 | 24° 8 | 5°53 | 26°34 | 5°R30 | 14°12 | 0°52 | 16°27 | 9°10 | 8°18 | 18°15 | 18°27 | S 14 |
| M15 | 7 39 19 | 25°25'53 | 0≈27 | 14°49 | 25°23 | 6°34 | 26°33 | 5°30 | 14°16 | 0°54 | 16°26 | 9° 9 | 8°15 | 18°22 | 18°33 | M15 |
| T 16 | 7 43 16 | 26°26'58 | 12°42 | 16°23 | 26°37 | 7°15 | 26°32 | 5°30 | 14°19 | 0°56 | 16°26 | 9° 7 | 8°12 | 18°29 | 18°39 | T 16 |
| W17 | 7 47 13 | 27°28'02 | 24°49 | 17°59 | 27°51 | 7°56 | 26°31 | 5°30 | 14°23 | 0°58 | 16°25 | 9° 5 | 8° 9 | 18°36 | 18°45 | W17 |
| T 18 | 7 51 9 | 28°29'06 | 6) €47 | 19°35 | 29° 5 | 8°37 | 26°31 | 5°29 | 14°26 | 1° 0 | 16°24 | 9° 1 | 8° 5 | 18°42 | 18°51 | T 18 |
| F 19 | 7 55 6 | 29°30'09 | 18°40 | 21°11 | 0 ₩19 | 9°18 | 26°30 | 5°29 | 14°30 | 1° 2 | 16°23 | 8°58 | 8° 2 | 18°49 | 18°57 | F 19 |
| S 20 | 7 59 2 | 0≈31'10 | 0 Υ 31 | 22°48 | 1°33 | 9°59 | 26°D30 | 5°28 | 14°33 | 1° 4 | 16°22 | 8°55 | 7°59 | 18°56 | 19° 3 | S 20 |
| S 21 | 8 2 59 | 1°32'11 | 12°24 | 24°26 | 2°46 | 10°40 | 26°30 | 5°28 | 14°37 | 1° 6 | 16°21 | 8°52 | 7°56 | 19° 2 | 19° 8 | S 21 |
| M22 | 8 6 55 | 2°33'10 | 24°22 | 26° 4 | 4° 0 | 11°21 | 26°30 | 5°27 | 14°40 | 1° 8 | 16°21 | 8°51 | 7°53 | 19° 9 | 19°14 | M22 |
| T 23 | 8 10 52 | 3°34'08 | 6 8 30 | 27°43 | 5°14 | 12° 1 | 26°31 | 5°26 | 14°44 | 1°10 | 16°20 | 8°D51 | 7°49 | 19°16 | 19°20 | T 23 |
| W24 | 8 14 48 | 4°35'05 | 18°53 | 29°23 | 6°28 | 12°42 | 26°31 | 5°25 | 14°47 | 1°12 | 16°19 | 8°52 | 7°46 | 19°23 | 19°25 | W24 |
| T 25 | 8 18 45 | 5°36'01 | 1 II 35 | 1≈ 3 | 7°41 | 13°23 | 26°32 | 5°24 | 14°51 | 1°14 | 16°18 | 8°53 | 7°43 | 19°29 | 19°31 | T 25 |
| F 26 | 8 22 42 | 6°36'55 | 14°41 | 2°44 | 8°55 | 14° 5 | 26°33 | 5°22 | 14°54 | 1°16 | 16°18 | 8°55 | 7°40 | 19°36 | 19°36 | F 26 |
| S 27 | 8 26 38 | 7°37'49 | 28°12 | 4°26 | 10° 9 | 14°46 | 26°35 | 5°21 | 14°57 | 1°18 | 16°17 | 8°56 | 7°37 | 19°43 | 19°42 | S 27 |
| S 28 | 8 30 35 | 8°38'41 | 129510 | 6° 8 | 11°22 | 15°27 | 26°36 | 5°20 | 15° 1 | 1°20 | 16°16 | 8°R56 | 7°34 | 19°49 | 19°47 | S 28 |
| M29 | 8 34 31 | 9°39'31 | 26°34 | 7°52 | 12°35 | 16° 8 | 26°38 | 5°18 | 15° 4 | 1°22 | 16°16 | 8°55 | 7°30 | 19°56 | 19°52 | M29 |
| T 30 | 8 38 28 | 10°40'21 | 11 Ω 18 | 9°36 | 13°49 | 16°49 | 26°40 | 5°16 | 1 <u>5</u> ° 7 | <u>1°24</u> | 16°15 | <u>8°53</u> | <u>7°27</u> | 20° 3 | 19°58 | T 30 |
| W31 | 8 42 24 | 11 ≈ 41'09 | 26 Ω 15 | 11≈20 | 15 ¥ 2 | 17 ∡ 30 | 26842 | 5 ≏ 15 | 15 ਰ 11 | 1 る 26 | 16 Ⅱ 14 | 8 궁 49 | 7 궁 24 | 20 米 10 | 20 × 3 | W31 |

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Greg. Calendar

FEBRUARY 1657 GC 00:00 UT

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|------|----------|--------------------|----------------|-----------------|----------------|----------------|----------------|---------------|----------------|---------------|-----------------|---------------|---------------|----------------|-----------------|------|
| T 1 | 8 46 21 | 12≈41'56 | 11 M 17 | 13 ≈ 6 | 16 米 15 | 18 × 11 | 26844 | 5°R13 | 15 る 14 | 1 る 27 | 16°R14 | 8°R44 | 7 ට 21 | 20) 16 | 20 × 8 | T 1 |
| F 2 | 8 50 17 | 13°42'41 | 26°15 | 14°52 | 17°29 | 18°52 | 26°46 | 5 ≏ 11 | 15°17 | 1°29 | 16 II 13 | 8 云 38 | 7°18 | 20°23 | 20°13 | F 2 |
| S 3 | 8 54 14 | 14°43'26 | 11 ₾ 0 | 16°38 | 18°42 | 19°33 | 26°49 | 5° 9 | 15°20 | 1°31 | 16°13 | 8°34 | 7°15 | 20°30 | 20°18 | S 3 |
| S 4 | 8 58 11 | 15°44'10 | 25°26 | 18°26 | 19°55 | 20°15 | 26°52 | 5° 7 | 15°24 | 1°33 | 16°12 | 8°30 | 7°11 | 20°36 | 20°23 | S 4 |
| M 5 | 9 2 7 | 16°44'53 | 9 M .30 | 20°14 | 21° 8 | 20°56 | 26°55 | 5° 4 | 15°27 | 1°34 | 16°12 | 8°29 | 7° 8 | 20°43 | 20°28 | M 5 |
| T 6 | 9 6 4 | 17°45'35 | 23°11 | 22° 3 | 22°21 | 21°37 | 26°58 | 5° 2 | 15°30 | 1°36 | 16°11 | 8°D29 | 7° 5 | 20°50 | 20°33 | T 6 |
| W 7 | 9 10 0 | 18°46'15 | 6 ₹ 31 | 23°52 | 23°34 | 22°18 | 27° 2 | 5° 0 | 15°33 | 1°38 | 16°11 | 8°30 | 7° 2 | 20°57 | 20°37 | W 7 |
| T 8 | 9 13 57 | 19°46'55 | 19°31 | 25°42 | 24°47 | 23° 0 | 27° 5 | 4°57 | 15°36 | 1°40 | 16°10 | 8°31 | 6°59 | 21° 3 | 20°42 | T 8 |
| F 9 | 9 17 53 | 20°47'33 | 2 ට 15 | 27°32 | 25°59 | 23°41 | 27° 9 | 4°54 | 15°39 | 1°41 | 16°10 | 8°R32 | 6°55 | 21°10 | 20°46 | F 9 |
| S 10 | 9 21 50 | 21°48'10 | 14°46 | 29°23 | 27°12 | 24°22 | 27°13 | 4°52 | 15°42 | 1°43 | 16° 9 | 8°32 | 6°52 | 21°17 | 20°51 | S 10 |
| S 11 | 9 25 47 | 22°48'46 | 27° 6 | 1) (14 | 28°25 | 25° 4 | 27°17 | 4°49 | 15°45 | 1°44 | 16° 9 | 8°30 | 6°49 | 21°23 | 20°55 | S 11 |
| M12 | 9 29 43 | 23°49'20 | 9≈18 | 3° 5 | 29°37 | 25°45 | 27°22 | 4°46 | 15°48 | 1°46 | 16° 9 | 8°26 | 6°46 | 21°30 | 21° 0 | M12 |
| T 13 | 9 33 40 | 24°49'53 | 21°22 | 4°55 | 0 Υ 50 | 26°26 | 27°26 | 4°43 | 15°51 | 1°48 | 16° 8 | 8°20 | 6°43 | 21°37 | 21° 4 | T 13 |
| W14 | 9 37 36 | 25°50'24 | 3 ∺ 21 | 6°45 | 2° 2 | 27° 8 | 27°31 | 4°40 | 15°54 | 1°49 | 16° 8 | 8°11 | 6°40 | 21°44 | 21° 8 | W14 |
| T 15 | 9 41 33 | 26°50'54 | 15°16 | 8°35 | 3°14 | 27°49 | 27°36 | 4°37 | 15°57 | 1°51 | 16° 8 | 8° 2 | 6°36 | 21°50 | 21°12 | T 15 |
| F 16 | 9 45 29 | 27°51'22 | 27° 8 | 10°23 | 4°27 | 28°31 | 27°41 | 4°34 | 16° 0 | 1°52 | 16° 7 | 7°52 | 6°33 | 21°57 | 21°16 | F 16 |
| S 17 | 9 49 26 | 28°51'48 | 8 Ƴ 59 | 12°10 | 5°39 | 29°12 | 27°46 | 4°30 | 16° 3 | 1°54 | 16° 7 | 7°42 | 6°30 | 22° 4 | 21°20 | S 17 |
| S 18 | 9 53 22 | 29°52'12 | 20°52 | 13°56 | 6°51 | 29°53 | 27°52 | 4°27 | 16° 6 | 1°55 | 16° 7 | 7°34 | 6°27 | 22°11 | 21°24 | S 18 |
| M19 | 9 57 19 | 0) € 52'34 | 2 8 49 | 15°39 | 8° 3 | 0 ට 35 | 27°57 | 4°24 | 16° 9 | 1°56 | 16° 7 | 7°27 | 6°24 | 22°17 | 21°28 | M19 |
| T 20 | 10 1 15 | 1°52'55 | 14°55 | 17°19 | 9°15 | 1°16 | 28° 3 | 4°20 | 16°11 | 1°58 | 16° 7 | 7°24 | 6°20 | 22°24 | 21°32 | T 20 |
| W21 | 10 5 12 | 2°53'13 | 27°14 | 18°57 | 10°27 | 1°58 | 28° 9 | 4°16 | 16°14 | 1°59 | 16° 6 | 7°22 | 6°17 | 22°31 | 21°35 | W21 |
| T 22 | 10 9 9 | 3°53'30 | 9耳50 | 20°30 | 11°38 | 2°39 | 28°15 | 4°13 | 16°17 | 2° 0 | 16° 6 | 7°D22 | 6°14 | 22°37 | 21°39 | T 22 |
| F 23 | 10 13 5 | 4°53'44 | 22°48 | 22° 0 | 12°50 | 3°21 | 28°21 | 4° 9 | 16°19 | 2° 2 | 16° 6 | 7°23 | 6°11 | 22°44 | 21°42 | F 23 |
| S 24 | 10 17 2 | 5°53'56 | 69512 | 23°24 | 14° 1 | 4° 2 | 28°28 | 4° 5 | 16°22 | 2° 3 | 16° 6 | 7°R23 | 6° 8 | 22°51 | 21°46 | S 24 |
| S 25 | 10 20 58 | 6°54'07 | 20° 4 | 24°43 | 15°13 | 4°44 | 28°34 | 4° 1 | 16°25 | 2° 4 | 16° 6 | 7°23 | 6° 5 | 22°58 | 21°49 | S 25 |
| M26 | 10 24 55 | 7°54'15 | 4Ω26 | 25°56 | 16°24 | 5°25 | 28°41 | 3°57 | 16°27 | 2° 5 | 16° 6 | 7°20 | 6° 1 | 23° 4 | 21°52 | M26 |
| T 27 | 10 28 51 | 8°54'21 | 19°14 | 27° 2 | 17°35 | 6° 7 | 28°48 | 3°53 | 16°30 | 2° 6 | 16° 6 | 7°14 | 5°58 | 23°11 | 21°55 | T 27 |
| W28 | 10 32 48 | 9 米 54'25 | 4 Mp 23 | 28 米 1 | 18 Y 46 | 6 පි 48 | 28 8 55 | 3 ≏ 49 | 16 ට 32 | 2号 8 | 16°D 6 | 7중 7 | 5 ⋜ 55 | 23 米 18 | 21 × 758 | W28 |

Delta T = 38.39 sec

MARCH 1657 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)Å(| ¥ | В | U | Ω | ţ | ę, | Day |
|------|----------|---------------------|-----------------|----------------|----------------|----------------|---------------|---------------|----------------|---------------|-----------------|----------------|---------------|-----------------|----------------|------|
| T 1 | 10 36 44 | 10) (54'27 | 19 m 41 | 28) 52 | 19 Y 57 | 7 云 30 | 29 8 2 | 3°R45 | 16 ට 35 | 2 る 9 | 16 I I 6 | 6°R57 | 5 る 52 | 23) (24 | 22 × 1 | T 1 |
| F 2 | 10 40 41 | 11°54'28 | 4 Ω 59 | 29°35 | 21° 8 | 8°12 | 29° 9 | 3 ≏ 41 | 16°37 | 2°10 | 16° 6 | 6 ප 47 | 5°49 | 23°31 | 22° 4 | F 2 |
| S 3 | 10 44 38 | 12°54'26 | 20° 5 | 0 Υ 10 | 22°19 | 8°53 | 29°17 | 3°37 | 16°39 | 2°11 | 16° 6 | 6°38 | 5°46 | 23°38 | 22° 7 | S 3 |
| S 4 | 10 48 34 | 13°54'23 | 4 M .49 | 0°36 | 23°29 | 9°35 | 29°24 | 3°33 | 16°42 | 2°12 | 16° 6 | 6°31 | 5°42 | 23°45 | 22°10 | S 4 |
| M 5 | 10 52 31 | 14°54'18 | 19° 7 | 0°53 | 24°40 | 10°16 | 29°32 | 3°29 | 16°44 | 2°13 | 16° 6 | 6°26 | 5°39 | 23°51 | 22°12 | M 5 |
| T 6 | 10 56 27 | 15°54'12 | 2 ~ 157 | 1°R 1 | 25°50 | 10°58 | 29°40 | 3°24 | 16°46 | 2°14 | 16° 6 | 6°23 | 5°36 | 23°58 | 22°15 | T 6 |
| W 7 | 11 0 24 | 16°54'04 | 16°18 | 1° 1 | 27° 1 | 11°40 | 29°48 | 3°20 | 16°48 | 2°15 | 16° 6 | 6°D22 | 5°33 | 24° 5 | 22°17 | W 7 |
| T 8 | 11 4 20 | 17°53'54 | 29°16 | 0°51 | 28°11 | 12°21 | 29°56 | 3°15 | 16°51 | 2°16 | 16° 7 | 6°23 | 5°30 | 24°11 | 22°20 | T 8 |
| F 9 | 11 8 17 | 18°53'43 | 11 る 53 | 0°34 | 29°21 | 13° 3 | 0 I 5 | 3°11 | 16°53 | 2°16 | 16° 7 | 6°R23 | 5°26 | 24°18 | 22°22 | F 9 |
| S 10 | 11 12 13 | 19°53'30 | 24°14 | 0° 9 | 0 8 31 | 13°45 | 0°13 | 3° 6 | 16°55 | 2°17 | 16° 7 | 6°21 | 5°23 | 24°25 | 22°24 | S 10 |
| S 11 | 11 16 10 | 20°53'15 | 6≈23 | 29) 37 | 1°40 | 14°26 | 0°22 | 3° 2 | 16°57 | 2°18 | 16° 7 | 6°18 | 5°20 | 24°32 | 22°26 | S 11 |
| M12 | 11 20 7 | 21°52'58 | 18°24 | 28°58 | 2°50 | 15° 8 | 0°30 | 2°57 | 16°59 | 2°19 | 16° 8 | 6°11 | 5°17 | 24°38 | 22°28 | M12 |
| T 13 | 11 24 3 | 22°52'40 | 0 ∺ 20 | 28°15 | 4° 0 | 15°50 | 0°39 | 2°53 | 17° 1 | 2°20 | 16° 8 | 6° 1 | 5°14 | 24°45 | 22°30 | T 13 |
| W14 | 11 28 0 | 23°52'19 | 12°13 | 27°27 | 5° 9 | 16°32 | 0°48 | 2°48 | 17° 3 | 2°20 | 16° 8 | 5°49 | 5°11 | 24°52 | 22°32 | W14 |
| T 15 | 11 31 56 | 24°51'56 | 24° 5 | 26°35 | 6°18 | 17°13 | 0°57 | 2°44 | 17° 4 | 2°21 | 16° 8 | 5°35 | 5° 7 | 24°59 | 22°33 | T 15 |
| F 16 | 11 35 53 | 25°51'32 | 5 Ƴ 57 | 25°42 | 7°27 | 17°55 | 1° 6 | 2°39 | 17° 6 | 2°22 | 16° 9 | 5°21 | 5° 4 | 25° 5 | 22°35 | F 16 |
| S 17 | 11 39 49 | 26°51'05 | 17°51 | 24°48 | 8°36 | 18°37 | 1°16 | 2°34 | 17° 8 | 2°22 | 16° 9 | 5° 7 | 5° 1 | 25°12 | 22°36 | S 17 |
| S 18 | 11 43 46 | 27°50'36 | 29°47 | 23°54 | 9°45 | 19°19 | 1°25 | 2°30 | 17°10 | 2°23 | 16°10 | 4°54 | 4°58 | 25°19 | 22°38 | S 18 |
| M19 | 11 47 42 | 28°50'05 | 11 8 49 | 23° 1 | 10°53 | 20° 0 | 1°35 | 2°25 | 17°11 | 2°23 | 16°10 | 4°44 | 4°55 | 25°25 | 22°39 | M19 |
| T 20 | 11 51 39 | 29°49'32 | 23°58 | 22°11 | 12° 2 | 20°42 | 1°45 | 2°20 | 17°13 | 2°24 | 16°10 | 4°37 | 4°52 | 25°32 | 22°40 | T 20 |
| W21 | 11 55 36 | 0 Ƴ 48'57 | 6 Ⅱ 18 | 21°24 | 13°10 | 21°24 | 1°54 | 2°16 | 17°15 | 2°24 | 16°11 | 4°33 | 4°48 | 25°39 | 22°41 | W21 |
| T 22 | 11 59 32 | 1°48'19 | 18°52 | 20°40 | 14°18 | 22° 6 | 2° 4 | 2°11 | 17°16 | 2°25 | 16°11 | 4°32 | 4°45 | 25°46 | 22°42 | T 22 |
| F 23 | 12 3 29 | 2°47'39 | 19546 | 20° 2 | 15°26 | 22°47 | 2°14 | 2° 6 | 17°18 | 2°25 | 16°12 | 4°31 | 4°42 | 25°52 | 22°43 | F 23 |
| S 24 | 12 7 25 | 3°46'57 | 15° 2 | 19°28 | 16°34 | 23°29 | 2°24 | 2° 2 | 17°19 | 2°25 | 16°12 | 4°31 | 4°39 | 25°59 | 22°44 | S 24 |
| S 25 | 12 11 22 | 4°46'12 | 28°44 | 19° 0 | 17°42 | 24°11 | 2°35 | 1°57 | 17°21 | 2°26 | 16°13 | 4°30 | 4°36 | 26° 6 | 22°45 | S 25 |
| M26 | 12 15 18 | 5°45'25 | $12\Omega_{55}$ | 18°37 | 18°49 | 24°53 | 2°45 | 1°52 | 17°22 | 2°26 | 16°13 | 4°27 | 4°32 | 26°12 | 22°46 | M26 |
| T 27 | 12 19 15 | 6°44'35 | 27°33 | 18°20 | 19°56 | 25°34 | 2°55 | 1°48 | 17°23 | 2°26 | 16°14 | 4°21 | 4°29 | 26°19 | 22°46 | T 27 |
| W28 | 12 23 11 | 7°43'44 | 12 m 34 | 18° 8 | 21° 3 | 26°16 | 3° 6 | 1°43 | 17°24 | 2°27 | 16°15 | 4°12 | 4°26 | 26°26 | 22°47 | W28 |
| T 29 | 12 27 8 | 8°42'50 | 27°50 | 18° 2 | 22°10 | 26°58 | 3°17 | 1°38 | 17°26 | 2°27 | 16°15 | 4° 2 | 4°23 | 26°33 | 22°47 | T 29 |
| F 30 | 12 31 4 | 9°41'53 | 13 ≏ 10 | 18°D 2 | 23°16 | 27°40 | 3°27 | 1°34 | 17°27 | 2°27 | 16°16 | 3°51 | 4°20 | 26°39 | 22°47 | F 30 |
| S 31 | 12 35 1 | 10 Y 40'55 | 28 ≏ 23 | 18 ∺ 7 | 24823 | 28 ට 21 | 3 Ⅲ 38 | 1 <u>₽</u> 29 | 17 ට 28 | 2 ප 27 | 16 II 16 | 3 ප් 40 | 4 ਰ 17 | 26) 46 | 22 √ 47 | S 31 |

Delta T = 38.33 sec Greg. Calendar

APRIL 1657 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)Å(| ħ | В | ß | Ω | ţ | ę, | Day |
|------|----------|-------------------|-----------------|----------------|----------------|-------|------|----------------|----------------|---------------|-----------------|---------------|----------------|----------------|-----------------|------|
| S 1 | 12 38 58 | 11 ° 39'55 | 13 M .17 | 18) 18 | 25 8 29 | 29る 3 | 3∏49 | 1°R24 | 17 る 29 | 2 る 27 | 16 I I17 | 3°R31 | 4 る 13 | 26) 53 | 22°R47 | S 1 |
| M 2 | 12 42 54 | 12°38'53 | 27°46 | 18°34 | 26°35 | 29°45 | 4° 0 | 1 ≏ 20 | 17°30 | 2°27 | 16°18 | 3 云 25 | 4°10 | 27° 0 | 22 .7 47 | M 2 |
| T 3 | 12 46 51 | 13°37'50 | 11 ∡ 146 | 18°54 | 27°40 | 0≈27 | 4°11 | 1°15 | 17°31 | 2°27 | 16°19 | 3°21 | 4° 7 | 27° 6 | 22°47 | T 3 |
| W 4 | 12 50 47 | 14°36'45 | 25°16 | 19°19 | 28°46 | 1° 8 | 4°22 | 1°11 | 17°32 | 2°R27 | 16°19 | 3°20 | 4° 4 | 27°13 | 22°47 | W 4 |
| T 5 | 12 54 44 | 15°35'37 | 8 궁 19 | 19°49 | 29°51 | 1°50 | 4°34 | 1° 6 | 17°33 | 2°27 | 16°20 | 3°D20 | 4° 1 | 27°20 | 22°47 | T 5 |
| F 6 | 12 58 40 | 16°34'29 | 20°58 | 20°22 | 0耳56 | 2°32 | 4°45 | 1° 2 | 17°33 | 2°27 | 16°21 | 3°R20 | 3°57 | 27°26 | 22°46 | F 6 |
| S 7 | 13 2 37 | 17°33'18 | 3≈18 | 21° 0 | 2° 1 | 3°14 | 4°56 | 0°57 | 17°34 | 2°27 | 16°22 | 3°19 | 3°54 | 27°33 | 22°46 | S 7 |
| S 8 | 13 633 | 18°32'06 | 15°25 | 21°42 | 3° 5 | 3°55 | 5°8 | 0°53 | 17°35 | 2°27 | 16°22 | 3°16 | 3°51 | 27°40 | 22°45 | S 8 |
| M 9 | 13 10 30 | 19°30'51 | 27°22 | 22°27 | 4° 9 | 4°37 | 5°20 | 0°49 | 17°36 | 2°27 | 16°23 | 3°10 | 3°48 | 27°47 | 22°45 | M 9 |
| T 10 | 13 14 27 | 20°29'35 | 9) 14 | 23°16 | 5°13 | 5°19 | 5°31 | 0°44 | 17°36 | 2°27 | 16°24 | 3° 2 | 3°45 | 27°53 | 22°44 | T 10 |
| W11 | 13 18 23 | 21°28'17 | 21° 5 | 24° 8 | 6°17 | 6° 1 | 5°43 | 0°40 | 17°37 | 2°26 | 16°25 | 2°51 | 3°42 | 28° 0 | 22°43 | W11 |
| T 12 | 13 22 20 | 22°26'58 | 2 Ƴ 57 | 25° 3 | 7°20 | 6°42 | 5°55 | 0°36 | 17°37 | 2°26 | 16°26 | 2°39 | 3°38 | 28° 7 | 22°42 | T 12 |
| F 13 | 13 26 16 | 23°25'36 | 14°51 | 26° 1 | 8°24 | 7°24 | 6° 7 | 0°32 | 17°38 | 2°26 | 16°27 | 2°26 | 3°35 | 28°13 | 22°41 | F 13 |
| S 14 | 13 30 13 | 24°24'13 | 26°50 | 27° 2 | 9°26 | 8° 6 | 6°19 | 0°28 | 17°38 | 2°25 | 16°28 | 2°13 | 3°32 | 28°20 | 22°40 | S 14 |
| S 15 | 13 34 9 | 25°22'47 | 8 8 54 | 28° 6 | 10°29 | 8°47 | 6°31 | 0°24 | 17°38 | 2°25 | 16°29 | 2° 2 | 3°29 | 28°27 | 22°39 | S 15 |
| M16 | 13 38 6 | 26°21'20 | 21° 5 | 29°12 | 11°31 | 9°29 | 6°43 | 0°20 | 17°39 | 2°25 | 16°30 | 1°53 | 3°26 | 28°34 | 22°37 | M16 |
| T 17 | 13 42 2 | 27°19'51 | 3 Ⅱ 24 | 0 Υ 21 | 12°33 | 10°11 | 6°55 | 0°16 | 17°39 | 2°24 | 16°31 | 1°47 | 3°23 | 28°40 | 22°36 | T 17 |
| W18 | 13 45 59 | 28°18'20 | 15°53 | 1°33 | 13°34 | 10°52 | 7° 7 | 0°12 | 17°39 | 2°24 | 16°32 | 1°43 | 3°19 | 28°47 | 22°34 | W18 |
| T 19 | 13 49 56 | 29°16'46 | 28°35 | 2°46 | 14°36 | 11°34 | 7°20 | 0° 8 | 17°39 | 2°23 | 16°33 | 1°D42 | 3°16 | 28°54 | 22°33 | T 19 |
| F 20 | 13 53 52 | 0815'11 | 119933 | 4° 2 | 15°36 | 12°15 | 7°32 | 0° 4 | 17°39 | 2°23 | 16°34 | 1°42 | 3°13 | 29° 1 | 22°31 | F 20 |
| S 21 | 13 57 49 | 1°13'33 | 24°48 | 5°20 | 16°37 | 12°57 | 7°44 | 0° 1 | 17°R39 | 2°22 | 16°35 | 1°R43 | 3°10 | 29° 7 | 22°29 | S 21 |
| S 22 | 14 1 45 | 2°11'53 | 8 Ω 25 | 6°41 | 17°37 | 13°38 | 7°57 | 29 m 57 | 17°39 | 2°22 | 16°36 | 1°43 | 3° 7 | 29°14 | 22°27 | S 22 |
| M23 | 14 5 42 | 3°10'11 | 22°26 | 8° 3 | 18°37 | 14°20 | 8° 9 | 29°54 | 17°39 | 2°21 | 16°37 | 1°41 | 3° 3 | 29°21 | 22°26 | M23 |
| T 24 | 14 9 38 | 4° 8'27 | 6 M)48 | 9°28 | 19°36 | 15° 1 | 8°22 | 29°50 | 17°39 | 2°20 | 16°38 | 1°37 | 3° 0 | 29°27 | 22°24 | T 24 |
| W25 | 14 13 35 | 5° 6'41 | 21°32 | 10°54 | 20°35 | 15°43 | 8°35 | 29°47 | 17°39 | 2°20 | 16°39 | 1°31 | 2°57 | 29°34 | 22°22 | W25 |
| T 26 | 14 17 31 | 6° 4'53 | 6 ₾ 30 | 12°23 | 21°33 | 16°24 | 8°47 | 29°43 | 17°39 | 2°19 | 16°40 | 1°24 | 2°54 | 29°41 | 22°19 | T 26 |
| F 27 | 14 21 28 | 7° 3'03 | 21°34 | 13°53 | 22°31 | 17° 6 | 9° 0 | 29°40 | 17°39 | 2°18 | 16°41 | 1°16 | 2°51 | 29°48 | 22°17 | F 27 |
| S 28 | 14 25 25 | 8° 1'11 | 6 M .36 | 15°25 | 23°28 | 17°47 | 9°13 | 29°37 | 17°38 | 2°18 | 16°42 | 1° 8 | 2°48 | 29°54 | 22°15 | S 28 |
| S 29 | 14 29 21 | 8°59'17 | 21°25 | 17° 0 | 24°25 | 18°28 | 9°26 | 29°34 | 17°38 | 2°17 | 16°43 | 1° 1 | 2°44 | 0 Υ 1 | 22°12 | S 29 |
| M30 | 14 33 18 | 9 8 57'22 | 5 ₹ 53 | 18 Y 36 | 25 Ⅱ 22 | 19≈10 | 9Ⅱ39 | 29 m 31 | 17 る 38 | 2 ප 16 | 16 Ⅱ 44 | 0 궁 57 | 2 ප් 41 | oΥ 8 | 22 × 10 | M30 |

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| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |) { | \ | Р | S. | ය | Ç | ٧٥ | Day |
|--------------|----------------------|----------------------|------------------------|-----------------------|----------------|----------------|-----------------|----------------|----------------|---------------|----------------|-----------------|-------------------|---------------|----------------|--------------|
| T 1 | 14 37 14 | 10855'25 | 19 ×7 56 | 20 Υ 14 | 26Ⅱ18 | 19 ≈ 51 | 9∏52 | 29°R28 | 17°R37 | 2°R15 | 16 Ⅱ 46 | 0°R54 | 2 る 38 | 0 Υ 14 | 22°R 7 | T 1 |
| W 2 | 14 41 11 | 11°53'27 | 3 ਰ 31 | 21°55 | 27°13 | 20°32 | 10° 5 | 29 M 25 | 17 る 37 | 2 ට 14 | 16°47 | 0°D54 | 2°35 | 0°21 | 22 才 5 | W 2 |
| T 3 | 14 45 7 | 12°51'28 | 16°39 | 23°37 | 28° 8 | 21°14 | 10°18 | 29°22 | 17°36 | 2°13 | 16°48 | 0 궁 54 | 2°32 | 0°28 | 22° 2 | T 3 |
| F 4 | 14 49 4 | 13°49'27 | 29°23 | 25°21 | 29° 2 | 21°55 | 10°31 | 29°20 | 17°36 | 2°13 | 16°49 | 0°56 | 2°29 | 0°35 | 21°59 | F 4 |
| S 5 | 14 53 0 | 14°47'24 | 11 ≈ 48 | 27° 7 | 29°56 | 22°36 | 10°44 | 29°17 | 17°35 | 2°12 | 16°50 | 0°R57 | 2°25 | 0°41 | 21°57 | S 5 |
| S 6 | 14 56 57 | 15°45'21 | 23°57 | 28°55 | 09549 | 23°17 | 10°57 | 29°15 | 17°34 | 2°11 | 16°52 | 0°56 | 2°22 | 0°48 | 21°54 | S 6 |
| M 7 | 15 0 54 | 16°43'16 | 5) 55 | 0 8 45 | 1°42 | 23°58 | 11°10 | 29°12 | 17°33 | 2°10 | 16°53 | 0°54 | 2°19 | 0°55 | 21°51 | M 7 |
| T 8 | 15 4 50 | 17°41'09 | 17°48 | 2°37 | 2°34 | 24°39 | 11°24 | 29°10 | 17°33 | 2° 9 | 16°54 | 0°50 | 2°16 | 1° 2 | 21°48 | T 8 |
| W 9 | 15 8 47 | 18°39'02 | 29°39 | 4°30 | 3°25 | 25°20 | 11°37 | 29° 8 | 17°32 | 2° 8 | 16°55 | 0°45 | 2°13 | 1° 8 | 21°45 | W 9 |
| T 10 | 15 12 43 | 19°36'53 | 11 ° 33 | 6°26 | 4°15 | 26° 1 | 11°50 | 29° 5 | 17°31 | 2° 6 | 16°57 | 0°38 | 2° 9 | 1°15 | 21°42 | T 10 |
| F 11 S 12 | 15 16 40 | 20°34'43 | 23°31 | 8°24 10°23 | 5° 5 | 26°42 27°23 | 12° 4 12°17 | 29° 3 29° 1 | 17°30 17°29 | 2° 5 2° 4 | 16°58 | 0°31 0°23 | 2° 6 2° 3 | 1°22 1°28 | 21°38 | F 11 S 12 |
| | 15 20 36 | 21°32'31 | 5 8 36 | | 5°54 | | | - | | | 16°59 | | _ | | 21°35 | |
| S 13 | 15 24 33 | 22°30'18 | 1 <u>7</u> °51 | 12°24 | 6°43 | 28° 4 | 12°30 | 29° 0 | 17°28 | 2° 3 | 17° 0 | 0°17 | 2° 0 | 1°35 | 21°32 | S 13 |
| M14 | 15 28 29 | 23°28'04 | 0Д15 | 14°27 | 7°30 | 28°44 | 12°44 | 28°58 | 17°27 | 2° 2 | 17° 2 | 0°12 | 1°57 | 1°42 | 21°28 | M14 |
| T 15 | 15 32 26 | 24°25'49 | 12°49 | 16°32 | 8°17 | 29°25 | 12°57 | 28°56 | 17°26 | 2° 1 | 17° 3 | 0° 9 | 1°54 | 1°49 | 21°25 | T 15 |
| W16 | 15 36 23 | 25°23'32 | 25°36 | 18°38 | 9° 3 | 0 ¥ 6 | 13°11 | 28°55 | 17°25 | 2° 0 | 17° 4 | 0°D 8 | 1°50 | 1°55 | 21°22 | W16 |
| T 17 F 18 | 15 40 19 | 26°21'14 27°18'54 | 8934 | 20°46 22°55 | 9°48 10°32 | 0°46 1°27 | 13°24 13°38 | 28°53 28°52 | 17°24 17°22 | 1°58 1°57 | 17° 6 17° 7 | 0° 8 | 1°47 1°44 | 2° 2 2° 9 | 21°18 21°15 | T 17 F 18 |
| S 19 | 15 44 16 15 48 12 | 28°16'32 | 21°46 5 Ω 13 | 25° 5 | 10°32 11°15 | 2° 7 | 13°58 13°51 | 28°52 28°50 | 17°22 | 1°56 | 17° 7 | 0°11 | 1°44 1°41 | 2°16 | 21°13 | S 19 |
| | | | | | | • | | | · | | | - | | _ | | |
| S 20 | 15 52 9 | 29°14'09 | 18°55 | 27°15 | 11°57 | 2°47 | 14° 5 | 28°49 | 17°20 | 1°55 | 17°10 | 0°12 | 1°38 | 2°22 | 21° 7 | S 20 |
| M21 | 15 56 5 | 0 Ⅱ 11'45 | 2 m 52 | 29°27 | 12°38 | 3°28 4° 8 | 14°19 | 28°48 | 17°18 | 1°53 | 17°11 | 0°R12 | 1°35 | 2°29 | 21° 4 21° 0 | M21 |
| T 22 W23 | 16 0 2 16 3 58 | 1° 9'19 2° 6'51 | 17° 5 1 Ω 31 | 1 Ⅱ 39 3°51 | 13°18 13°56 | 4° 8 4°48 | 14°32 14°46 | 28°47 28°46 | 17°17 17°16 | 1°52 1°51 | 17°12 17°14 | 0°11 0° 9 | 1°31 1°28 | 2°36 2°42 | 21° 0 20°56 | T 22 W23 |
| T 24 | 16 7 55 | 3° 4'23 | 16° 6 | 6° 2 | 13°34 | 5°28 | 14 40 15° 0 | 28°45 | 17 16 17°14 | 1°49 | 17 14 17°15 | 0° 6 | 1°25 | 2°49 | 20°52 | T 24 |
| F 25 | 16 / 53 | 4° 1'52 | 0ML46 | 8°14 | 15°10 | 6° 8 | 15°13 | 28°45 | 17°13 | 1°48 | 17°17 | 0° 2 | 1°22 | 2°56 | 20°48 | F 25 |
| S 26 | 16 15 48 | 4°59'21 | 15°23 | 10°24 | 15°46 | 6°48 | 15°27 | 28°44 | 17°11 | 1°47 | 17°18 | 29 × 759 | 1°19 | 3° 3 | 20°45 | S 26 |
| S 27 | 16 19 45 | 5°56'48 | 29°51 | 12°34 | 16°19 | 7°28 | 15°41 | 28°44 | 17° 9 | 1°45 | 17°19 | 29°56 | 1°15 | 3° 9 | 20°41 | S 27 |
| M28 | 16 19 45 | 6°54'15 | 14 ×7 4 | 14°42 | 16°52 | 8° 7 | 15°55 | 28°44 28°43 | 17° 9 | 1°43 | 17°19 | 29°54 | 1°13 | 3°16 | 20°41 20°37 | M28 |
| T 29 | 16 23 41 | 7°51'40 | 27°57 | 16°49 | 16°32 17°23 | 8°47 | 15 33 16° 8 | 28°43 | 17° 6 | 1°42 | 17°21 | 29°D54 | 1° 9 | 3°23 | 20°37 20°33 | T 29 |
| W30 | 16 31 34 | 8°49'05 | 11 중 28 | 18°54 | 17°52 | 9°26 | 16°22 | 28°43 | 17° 4 | 1°41 | 17°23 | 29°54 | 1° 6 | 3°29 | 20°29 | W30 |
| T 31 | 16 35 31 | 9∏46'29 | 24 궁 36 | 20 I I58 | 18920 | 10 X 6 | 16 II 36 | 28°D43 | 17 ප 3 | 1 ろ 39 | 17 Ⅱ 25 | 29 × 755 | ා ර් 3 | 3 Υ 36 | 20 Z) | T 31 |
| 1 31 | 10 33 31 | 72.1027 | 2.000 | 20200 | 10 320 | 10/(0 | .0230 | 20 2 13 | 1, 3 | . 337 | ., | 277. 00 | . • • | 5 1 50 | 207. 20 | |

Delta T = 38.22 sec

Greg. Calendar

| JUNE 1657 GC | 00:00 l | JT |
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| Day | Sid.t | \odot | D | φ | φ | o ⁷ | 4 | ħ |)∤(| ¥ | 2 | ß | Ω | ţ | g | Day |
|--------------|----------------------|-----------------------------|----------------|-----------------|-------------------------|-------------------------|-------------------------|----------------|-------------------------|-----------------------|------------------------|--------------------------|--------------------------|-----------------------|--------------------------|--------------|
| F 1 | 16 39 27 | 10 Ⅱ 43'52 | 7≈23 | 23 I I 0 | 189647 | 10)(45 | 16耳50 | 28 m 43 | 17°R 1 | 1°R38 | 17Ⅲ26 | 29 √ 57 | 1중 0 | 3 Υ43 | 20°R21 | F 1 |
| S 2 | 16 43 24 | 11°41'15 | 19°50 | 24°59 | 19°11 | 11°25 | 17° 3 | 28°43 | 16 る 59 | 1 궁 36 | 17°28 | 29°58 | 0°56 | 3°50 | 20 х 17 | S 2 |
| S 3 | 16 47 21 | 12°38'36 | 2 ∺ 2 | 26°56 | 19°35 | 12° 4 | 17°17 | 28°43 | 16°57 | 1°35 | 17°29 | 29°59 | 0°53 | 3°56 | 20°13 | S 3 |
| M 4 | 16 51 17 | 13°35'58 | 14° 3 | 28°51 | 19°56 | 12°43 | 17°31 | 28°43 | 16°55 | 1°33 | 17°30 | 29°R59 | 0°50 | 4° 3 | 20° 9 | M 4 |
| T 5 | 16 55 14 | 14°33'18 | 25°58 | 09944 | 20°16 | 13°22 | 17°45 | 28°44 | 16°54 | 1°32 | 17°32 | 29°59 | 0°47 | 4°10 | 20° 5 | T 5 |
| W 6 | 16 59 10 | 15°30'38 | 7 Υ 51 | 2°34 | 20°33 | 14° 1 | 17°59 | 28°44 | 16°52 | 1°30 | 17°33 | 29°58 | 0°44 | 4°17 | 20° 0 | W 6 |
| T 7 | 17 3 7 | 16°27'58 | 19°46 | 4°22 | 20°49 | 14°39 | 18°12 | 28°45 | 16°50 | 1°29 | 17°35 | 29°56 | 0°41 | 4°23 | 19°56 | T 7 |
| F 8 | 17 7 3 | 17°25'17 | 1 8 48 | 6° 7 | 21° 3 | 15°18 | 18°26 | 28°46 | 16°48 | 1°27 | 17°36 | 29°55 | 0°37 | 4°30 | 19°52 | F 8 |
| S 9 | 17 11 0 | 18°22'36 | 14° 0 | 7°50 | 21°15 | 15°56 | 18°40 | 28°47 | 16°46 | 1°26 | 17°38 | 29°53 | 0°34 | 4°37 | 19°48 | S 9 |
| S 10 | 17 14 56 | 19°19'55 | 26°23 | 9°31 | 21°24 | 16°35 | 18°54 | 28°47 | 16°44 | 1°24 | 17°39 | 29°51 | 0°31 | 4°43 | 19°44 | S 10 |
| M11 | 17 18 53 | 20°17'13 | 9耳 1 | 11° 9 | 21°32 | 17°13 | 19°8 | 28°49 | 16°42 | 1°23 | 17°40 | 29°50 | 0°28 | 4°50 | 19°40 | M11 |
| T 12 | 17 22 50 | 21°14'30 | 21°54 | 12°44 | 21°37 | 17°51 | 19°22 | 28°50 | 16°40 | 1°21 | 17°42 | 29°50 | 0°25 | 4°57 | 19°36 | T 12 |
| W13 | 17 26 46 | 22°11'47 | 599 1 | 14°17 | 21°41 | 18°29 | 19°35 | 28°51 | 16°37 | 1°19 | 17°43 | 29°D50 | 0°21 | 5° 4 | 19°32 | W13 |
| T 14 | 17 30 43 | 23° 9'04 | 18°23 | 15°47 | 21°R41 | 19° 7 | 19°49 | 28°52 | 16°35 | 1°18 | 17°45 | 29°50 | 0°18 | 5°10 | 19°28 | T 14 |
| F 15 | 17 34 39 | 24° 6'19 | 1 Ω 58 | 17°15 | 21°40 | 19°44 | 20° 3 | 28°54 | 16°33 | 1°16 | 17°46 | 29°51 | 0°15 | 5°17 | 19°24 | F 15 |
| S 16 | 17 38 36 | 25° 3'34 | 15°46 | 18°40 | 21°36 | 20°22 | 20°17 | 28°55 | 16°31 | 1°15 | 17°47 | 29°51 | 0°12 | 5°24 | 19°19 | S 16 |
| S 17 | 17 42 32 | 26° 0'49 | 29°43 | 20° 3 | 21°30 | 20°59 | 20°30 | 28°57 | 16°29 | 1°13 | 17°49 | 29°52 | 0° 9 | 5°31 | 19°15 | S 17 |
| M18 | 17 46 29 | 26°58'02 | 13 M 49 | 21°22 | 21°21 | 21°36 | 20°44 | 28°59 | 16°27 | 1°11 | 17°50 | 29°52 | 0° 6 | 5°37 | 19°11 | M18 |
| T 19 | 17 50 25 | 27°55'15 | 28° 1 | 22°39 | 21°10 | 22°13 | 20°58 | 29° 0 | 16°24 | 1°10 | 17°52 | 29°R52 | 0° 2 | 5°44 | 19° 7 | T 19 |
| W20 | 17 54 22 | 28°52'28 | 12 ≏ 17 | 23°54 | 20°57 | 22°50 | 21°12 | 29° 2 | 16°22 | 1° 8 | 17°53 | 29°52 | 29 × 759 | 5°51 | 19° 3 | W20 |
| T 21 | 17 58 19 | 29°49'40 | 26°33 | 25° 5 | 20°41 | 23°27 | 21°25 | 29° 4 | 16°20 | 1° 6 | 17°54 | 29°D52 | 29°56 | 5°57 | 18°59 | T 21 |
| F 22 | 18 2 15 | 09546'51 | 10ML48 | 26°14 | 20°22 | 24° 3 | 21°39 | 29° 6 | 16°17 | 1° 5 | 17°56 | 29°52 | 29°53 | 6° 4 | 18°55 | F 22 |
| S 23 | 18 6 12 | 1°44'02 | 24°58 | 27°19 | 20° 2 | 24°40 | 21°53 | 29° 9 | 16°15 | 1° 3 | 17°57 | 29°52 | 29°50 | 6°11 | 18°51 | S 23 |
| S 24 | 18 10 8 | 2°41'12 | 8 ₹ 58 | 28°22 | 19°39 | 25°16 | 22° 7 | 29°11 | 16°13 | 1° 2 | 17°59 | 29°52 | 29°47 | 6°18 | 18°47 | S 24 |
| M25 | 18 14 5 | 3°38'23 | 2 <u>2°</u> 47 | 29°21 | 19°14 | 25°52 | 22°20 | 29°13 | 16°11 | 1° 0 | 18° 0 | 29°52 | 29°43 | 6°24 | 18°44 | M25 |
| T 26 | 18 18 1 | 4°35'33 | 6 පි 21 | 0Ω17 | 18°47 | 26°28 | 22°34 | 29°16 | 16° 8 | 0°58 | 18° 1 | 29°R52 | 29°40 | 6°31 | 18°40 | T 26 |
| W27 | 18 21 58 | 5°32'43 | 19°38 | 1°10 | 18°19 | 27° 3 | 22°47 | 29°18 | 16° 6 | 0°57 | 18° 3 | 29°52 | 29°37 | 6°38 | 18°36 | W27 |
| T 28 | 18 25 55 | 6°29'53 | 2≈37 | 1°59 | 17°48 | 27°38 | 23° 1 | 29°21 | 16° 3 | 0°55 | 18° 4 | 29°51 | 29°34 | 6°44 | 18°32 | T 28 |
| F 29 S 30 | 18 29 51 18 33 48 | 7°27'03 8 © 24'14 | 15°19 | 2°45 | 17°16 16 © 42 | 28°14 28 ¥ 49 | 23°15 23 Ⅲ 28 | 29°24 | 16° 1 15 궁 59 | 0°54 0 ⋜ 52 | 18° 5 18 Ⅲ 7 | 29°51 29 × 750 | 29°31 29 × 727 | 6°51 6 Ƴ 58 | 18°28 18 ∡ 725 | F 29 S 30 |
| 8 30 | 18 33 48 | 24.14 في ا | 27 ≈ 45 | 3 Ω 27 | 16942 | 28 代 49 | 23 11 28 | 29 m 27 | 13039 | 0002 | 18Д / | ∠9 x ′50 | 29 x' 2/ | 6.1.28 | 18×125 | \$ 30 |

Delta T = 38.16 sec

JULY 1657 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | Р | N. | Ω | Ç | ç | Day |
|------|----------|-----------------|-----------------|--------------|--------|----------------|----------------|----------------|----------------|---------------|----------------|-----------------|-----------------|----------------|----------------|------|
| S 1 | 18 37 44 | 99521'24 | 9) 57 | 4 Ω 6 | 16°R 8 | 29) 23 | 23 Ⅱ 42 | 29 m 30 | 15°R56 | 0°R50 | 18 II 8 | 29°R48 | 29 × 24 | 7 ℃ 5 | 18°R21 | S 1 |
| M 2 | 18 41 41 | 10°18'35 | 21°59 | 4°40 | 15932 | 29°58 | 23°55 | 29°33 | 15 る 54 | 0 궁 49 | 18° 9 | 29 ∡ 148 | 29°21 | 7°11 | 18 🗷 17 | M 2 |
| T 3 | 18 45 37 | 11°15'46 | 3 Ƴ 55 | 5°10 | 14°55 | 0 Υ 32 | 24° 9 | 29°36 | 15°52 | 0°47 | 18°11 | 29°47 | 29°18 | 7°18 | 18°14 | T 3 |
| W 4 | 18 49 34 | 12°12'57 | 15°48 | 5°36 | 14°18 | 1° 6 | 24°22 | 29°39 | 15°49 | 0°46 | 18°12 | 29°D47 | 29°15 | 7°25 | 18°10 | W 4 |
| T 5 | 18 53 30 | 13°10'09 | 27°44 | 5°58 | 13°41 | 1°40 | 24°35 | 29°42 | 15°47 | 0°44 | 18°13 | 29°47 | 29°12 | 7°32 | 18° 7 | T 5 |
| F 6 | 18 57 27 | 14° 7'22 | 9 8 47 | 6°15 | 13° 3 | 2°13 | 24°49 | 29°46 | 15°44 | 0°42 | 18°15 | 29°48 | 29° 8 | 7°38 | 18° 3 | F 6 |
| S 7 | 19 1 24 | 15° 4'35 | 22° 1 | 6°28 | 12°26 | 2°47 | 25° 2 | 29°49 | 15°42 | 0°41 | 18°16 | 29°49 | 29° 5 | 7°45 | 18° 0 | S 7 |
| S 8 | 19 5 20 | 16° 1'48 | 4 Ⅲ 31 | 6°36 | 11°49 | 3°20 | 25°15 | 29°53 | 15°39 | 0°39 | 18°17 | 29°51 | 29° 2 | 7°52 | 17°57 | S 8 |
| M 9 | 19 9 17 | 16°59'02 | 17°19 | 6°R39 | 11°13 | 3°52 | 25°29 | 29°56 | 15°37 | 0°38 | 18°18 | 29°52 | 28°59 | 7°58 | 17°53 | M 9 |
| T 10 | 19 13 13 | 17°56'17 | 0ණ26 | 6°38 | 10°38 | 4°25 | 25°42 | 0 亚 0 | 15°35 | 0°36 | 18°20 | 29°R52 | 28°56 | 8° 5 | 17°50 | T 10 |
| W11 | 19 17 10 | 18°53'32 | 13°53 | 6°31 | 10° 3 | 4°57 | 25°55 | 0° 4 | 15°32 | 0°35 | 18°21 | 29°52 | 28°53 | 8°12 | 17°47 | W11 |
| T 12 | 19 21 6 | 19°50'47 | 27°40 | 6°20 | 9°30 | 5°29 | 26° 8 | 0° 8 | 15°30 | 0°33 | 18°22 | 29°50 | 28°49 | 8°19 | 17°44 | T 12 |
| F 13 | 19 25 3 | 20°48'03 | 11 Ω 42 | 6° 4 | 8°58 | 6° 0 | 26°22 | 0°12 | 15°27 | 0°32 | 18°23 | 29°48 | 28°46 | 8°25 | 17°41 | F 13 |
| S 14 | 19 28 59 | 21°45'19 | 25°57 | 5°44 | 8°28 | 6°31 | 26°35 | 0°16 | 15°25 | 0°30 | 18°25 | 29°45 | 28°43 | 8°32 | 17°38 | S 14 |
| S 15 | 19 32 56 | 22°42'35 | 10 M p19 | 5°19 | 8° 0 | 7° 2 | 26°48 | 0°20 | 15°23 | 0°29 | 18°26 | 29°42 | 28°40 | 8°39 | 17°35 | S 15 |
| M16 | 19 36 53 | 23°39'52 | 24°43 | 4°50 | 7°34 | 7°33 | 27° 1 | 0°24 | 15°20 | 0°27 | 18°27 | 29°39 | 28°37 | 8°46 | 17°32 | M16 |
| T 17 | 19 40 49 | 24°37'09 | 9 º 4 | 4°17 | 7° 9 | 8° 3 | 27°14 | 0°28 | 15°18 | 0°26 | 18°28 | 29°38 | 28°33 | 8°52 | 17°29 | T 17 |
| W18 | 19 44 46 | 25°34'26 | 23°20 | 3°41 | 6°47 | 8°33 | 27°27 | 0°33 | 15°15 | 0°24 | 18°29 | 29°D37 | 28°30 | 8°59 | 17°26 | W18 |
| T 19 | 19 48 42 | 26°31'43 | 7 M 28 | 3° 2 | 6°27 | 9° 2 | 27°39 | 0°37 | 15°13 | 0°23 | 18°30 | 29°37 | 28°27 | 9° 6 | 17°24 | T 19 |
| F 20 | 19 52 39 | 27°29'01 | 21°25 | 2°21 | 6° 9 | 9°31 | 27°52 | 0°42 | 15°11 | 0°22 | 18°32 | 29°38 | 28°24 | 9°12 | 17°21 | F 20 |
| S 21 | 19 56 35 | 28°26'20 | 5 ₹ 11 | 1°38 | 5°54 | 10° 0 | 28° 5 | 0°46 | 15° 8 | 0°20 | 18°33 | 29°40 | 28°21 | 9°19 | 17°19 | S 21 |
| S 22 | 20 0 32 | 29°23'39 | 18°46 | 0°55 | 5°41 | 10°29 | 28°18 | 0°51 | 15° 6 | 0°19 | 18°34 | 29°41 | 28°18 | 9°26 | 17°16 | S 22 |
| M23 | 20 4 28 | $0\Omega 20'58$ | 2 る 9 | 0°11 | 5°30 | 10°57 | 28°30 | 0°56 | 15° 4 | 0°17 | 18°35 | 29°R41 | 28°14 | 9°33 | 17°14 | M23 |
| T 24 | 20 8 25 | 1°18'18 | 15°19 | 299528 | 5°22 | 11°24 | 28°43 | 1° 1 | 15° 2 | 0°16 | 18°36 | 29°40 | 28°11 | 9°39 | 17°11 | T 24 |
| W25 | 20 12 22 | 2°15'39 | 28°17 | 28°47 | 5°16 | 11°52 | 28°56 | 1° 5 | 14°59 | 0°15 | 18°37 | 29°38 | 28° 8 | 9°46 | 17° 9 | W25 |
| T 26 | 20 16 18 | 3°13'00 | 11≈ 1 | 28° 8 | 5°12 | 12°18 | 29° 8 | 1°10 | 14°57 | 0°13 | 18°38 | 29°34 | 28° 5 | 9°53 | 17° 7 | T 26 |
| F 27 | 20 20 15 | 4°10'23 | 23°33 | 27°32 | 5°D11 | 12°45 | 29°20 | 1°15 | 14°55 | 0°12 | 18°39 | 29°28 | 28° 2 | 9°59 | 17° 5 | F 27 |
| S 28 | 20 24 11 | 5° 7'46 | 5 ¥ 52 | 27° 0 | 5°12 | 13°11 | 29°33 | 1°21 | 14°53 | 0°11 | 18°40 | 29°22 | 27°58 | 10° 6 | 17° 3 | S 28 |
| S 29 | 20 28 8 | 6° 5'10 | 18° 1 | 26°32 | 5°16 | 13°36 | 29°45 | 1°26 | 14°50 | 0°10 | 18°41 | 29°16 | 27°55 | 10°13 | 17° 1 | S 29 |
| M30 | 20 32 4 | 7° 2'36 | 0 Υ 1 | 26° 9 | 5°22 | 14° 1 | 29°57 | 1°31 | 1 <u>4</u> °48 | <u>0°</u> 8 | 18°42 | 29°11 | 27°52 | 10°20 | 16°59 | M30 |
| T 31 | 20 36 1 | 8 Ω 0'02 | 11 Y 55 | 25951 | 5929 | 14 Y 26 | 0910 | 1 ≏ 36 | 14 る 46 | 0중 7 | 18 Ⅱ 43 | 29 ∡ 6 | 27 . ₹49 | 10 Υ 26 | 16 ₹ 57 | T 31 |

Delta T = 38.10 sec

Greg. Calendar

| AUGUST 1657 GC | 00:00 UT |
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| 104051 2007 40 | 00.00 0. |

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)f(| ¥ | В | ₽. | ಬ | Ç | ę, | Day |
|------|----------|-------------------|----------------|---------------|--------|----------------|-------|---------------|----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|------|
| W 1 | 20 39 57 | 8 Q 57'30 | 23 Y 47 | 25°R40 | 5939 | 14 Y 50 | 09522 | 1 ≏ 42 | 14°R44 | 0°R 6 | 18 Ⅱ 44 | 29°R 3 | 27 ∡ 746 | 10 Y 33 | 16°R56 | W 1 |
| T 2 | 20 43 54 | 9°55'00 | 5 8 42 | 25°D34 | 5°52 | 15°14 | 0°34 | 1°47 | 14 궁 42 | 0중 5 | 18°45 | 29°D 2 | 27°43 | 10°40 | 16 ₹ 54 | T 2 |
| F 3 | 20 47 51 | 10°52'30 | 17°43 | 25935 | 6° 6 | 15°37 | 0°46 | 1°52 | 14°40 | 0° 4 | 18°46 | 29 ×7 2 | 27°39 | 10°46 | 16°53 | F 3 |
| S 4 | 20 51 47 | 11°50'02 | 29°56 | 25°43 | 6°22 | 15°59 | 0°58 | 1°58 | 14°38 | 0° 3 | 18°47 | 29° 3 | 27°36 | 10°53 | 16°51 | S 4 |
| S 5 | 20 55 44 | 12°47'36 | 12Ⅲ26 | 25°58 | 6°40 | 16°21 | 1°10 | 2° 4 | 14°36 | 0° 2 | 18°48 | 29° 4 | 27°33 | 11° 0 | 16°50 | S 5 |
| M 6 | 20 59 40 | 13°45'10 | 25°17 | 26°20 | 7° 0 | 16°43 | 1°22 | 2° 9 | 14°34 | 0° 0 | 18°49 | 29°R 5 | 27°30 | 11° 7 | 16°48 | M 6 |
| T 7 | 21 3 37 | 14°42'47 | 8932 | 26°49 | 7°22 | 17° 4 | 1°33 | 2°15 | 14°32 | 29 × 759 | 18°50 | 29° 5 | 27°27 | 11°13 | 16°47 | T 7 |
| W 8 | 21 7 33 | 15°40'24 | 22°13 | 27°25 | 7°45 | 17°24 | 1°45 | 2°21 | 14°30 | 29°58 | 18°51 | 29° 3 | 27°24 | 11°20 | 16°46 | W 8 |
| T 9 | 21 11 30 | 16°38'03 | 6 Ω 17 | 28° 7 | 8°10 | 17°44 | 1°56 | 2°27 | 14°28 | 29°57 | 18°51 | 28°59 | 27°20 | 11°27 | 16°45 | T 9 |
| F 10 | 21 15 26 | 17°35'44 | 20°43 | 28°57 | 8°37 | 18° 3 | 2° 8 | 2°32 | 14°26 | 29°56 | 18°52 | 28°52 | 27°17 | 11°34 | 16°44 | F 10 |
| S 11 | 21 19 23 | 18°33'25 | 5 m 25 | 29°53 | 9° 5 | 18°22 | 2°19 | 2°38 | 14°24 | 29°56 | 18°53 | 28°45 | 27°14 | 11°40 | 16°43 | S 11 |
| S 12 | 21 23 20 | 19°31'08 | 20°13 | 0 Ω 55 | 9°35 | 18°40 | 2°31 | 2°44 | 14°22 | 29°55 | 18°54 | 28°37 | 27°11 | 11°47 | 16°43 | S 12 |
| M13 | 21 27 16 | 20°28'51 | 5 ₽ 1 | 2° 4 | 10° 6 | 18°57 | 2°42 | 2°50 | 14°20 | 29°54 | 18°55 | 28°30 | 27° 8 | 11°54 | 16°42 | M13 |
| T 14 | 21 31 13 | 21°26'36 | 19°41 | 3°19 | 10°39 | 19°13 | 2°53 | 2°57 | 14°18 | 29°53 | 18°55 | 28°25 | 27° 4 | 12° 0 | 16°41 | T 14 |
| W15 | 21 35 9 | 22°24'22 | 4M 7 | 4°39 | 11°12 | 19°29 | 3° 4 | 3° 3 | 14°17 | 29°52 | 18°56 | 28°21 | 27° 1 | 12° 7 | 16°41 | W15 |
| T 16 | 21 39 6 | 23°22'10 | 18°16 | 6° 5 | 11°48 | 19°45 | 3°15 | 3° 9 | 14°15 | 29°51 | 18°57 | 28°D20 | 26°58 | 12°14 | 16°41 | T 16 |
| F 17 | 21 43 2 | 24°19'58 | 2 √ 6 | 7°36 | 12°24 | 19°59 | 3°26 | 3°15 | 14°13 | 29°50 | 18°58 | 28°20 | 26°55 | 12°21 | 16°40 | F 17 |
| S 18 | 21 46 59 | 25°17'48 | 15°39 | 9°11 | 13° 2 | 20°13 | 3°37 | 3°21 | 14°12 | 29°50 | 18°58 | 28°21 | 26°52 | 12°27 | 16°40 | S 18 |
| S 19 | 21 50 55 | 26°15'38 | 28°56 | 10°50 | 13°41 | 20°26 | 3°48 | 3°28 | 14°10 | 29°49 | 18°59 | 28°R21 | 26°49 | 12°34 | 16°40 | S 19 |
| M20 | 21 54 52 | 27°13'31 | 11 る 58 | 12°33 | 14°20 | 20°39 | 3°58 | 3°34 | 14° 9 | 29°48 | 19° 0 | 28°20 | 26°45 | 12°41 | 16°D40 | M20 |
| T 21 | 21 58 49 | 28°11'24 | 24°48 | 14°20 | 15° 1 | 20°51 | 4° 9 | 3°41 | 14° 7 | 29°48 | 19° 0 | 28°17 | 26°42 | 12°47 | 16°40 | T 21 |
| W22 | 22 2 45 | 29° 9'19 | 7≈26 | 16° 9 | 15°43 | 21° 2 | 4°19 | 3°47 | 14° 6 | 29°47 | 19° 1 | 28°12 | 26°39 | 12°54 | 16°40 | W22 |
| T 23 | 22 6 42 | 0 m) 7'15 | 19°54 | 18° 0 | 16°26 | 21°12 | 4°30 | 3°54 | 14° 4 | 29°46 | 19° 1 | 28° 4 | 26°36 | 13° 1 | 16°40 | T 23 |
| F 24 | 22 10 38 | 1° 5'12 | 2) 13 | 19°53 | 17°10 | 21°22 | 4°40 | 4° 0 | 14° 3 | 29°46 | 19° 2 | 27°53 | 26°33 | 13° 8 | 16°41 | F 24 |
| S 25 | 22 14 35 | 2° 3'12 | 14°23 | 21°48 | 17°55 | 21°30 | 4°50 | 4° 7 | 14° 1 | 29°45 | 19° 2 | 27°42 | 26°30 | 13°14 | 16°41 | S 25 |
| S 26 | 22 18 31 | 3° 1'13 | 26°26 | 23°44 | 18°41 | 21°38 | 5° 0 | 4°13 | 14° 0 | 29°45 | 19° 3 | 27°30 | 26°26 | 13°21 | 16°42 | S 26 |
| M27 | 22 22 28 | 3°59'15 | 8 Ƴ 22 | 25°40 | 19°28 | 21°45 | 5°10 | 4°20 | 13°59 | 29°44 | 19° 3 | 27°18 | 26°23 | 13°28 | 16°42 | M27 |
| T 28 | 22 26 24 | 4°57'20 | 20°14 | 27°37 | 20°15 | 21°52 | 5°20 | 4°27 | 13°57 | 29°44 | 19° 4 | 27° 9 | 26°20 | 13°34 | 16°43 | T 28 |
| W29 | 22 30 21 | 5°55'26 | 2 8 4 | 29°34 | 21° 4 | 21°57 | 5°30 | 4°34 | 13°56 | 29°43 | 19° 4 | 27° 1 | 26°17 | 13°41 | 16°44 | W29 |
| T 30 | 22 34 18 | 6°53'35 | 13°57 | 1 m 31 | 21°53 | 22° 2 | 5°39 | 4°40 | 1 <u>3</u> °55 | 29°43 | 19° 5 | 26°57 | 26°14 | 13°48 | 16°45 | T 30 |
| F 31 | 22 38 14 | 7 m 51'45 | 25 8 56 | 3 m 28 | 229643 | 22 ° 6 | 59649 | 4 ≏ 47 | 13 る 54 | 29 х 43 | 19耳 5 | 26 ₹ 54 | 26 ₹ 10 | 13 Υ 55 | 16 才 46 | F 31 |

Delta T = 38.04 sec

SEPTEMBER 1657 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| ħ | В | u | v | Ç | , k | Day |
|------|----------|------------------|-----------------|----------------|----------------|----------------|------|---------------|----------------|-----------------|-----------------|----------------|----------------|----------------|-----------------|------|
| S 1 | 22 42 11 | 8 m 49'58 | 8 I I 6 | 5 m 25 | 23933 | 22 Y 8 | 5958 | 4 Ω 54 | 13°R53 | 29°R42 | 19 I I 6 | 26°D53 | 26 ₹ 7 | 14 ° 1 | 16 ∡ 747 | S 1 |
| S 2 | 22 46 7 | 9°48'12 | 20°33 | 7°20 | 24°25 | 22°10 | 6° 8 | 5° 1 | 13 る 52 | 29 ∡ 142 | 19° 6 | 26°R54 | 26° 4 | 14° 8 | 16°48 | S 2 |
| M 3 | 22 50 4 | 10°46'29 | 39521 | 9°15 | 25°17 | 22°12 | 6°17 | 5° 8 | 13°51 | 29°42 | 19° 6 | 26 ₹ 54 | 26° 1 | 14°15 | 16°49 | M 3 |
| T 4 | 22 54 0 | 11°44'47 | 16°34 | 11°10 | 26° 9 | 22°R12 | 6°26 | 5°15 | 13°50 | 29°41 | 19° 7 | 26°52 | 25°58 | 14°21 | 16°50 | T 4 |
| W 5 | 22 57 57 | 12°43'08 | 0Ω 17 | 13° 3 | 27° 3 | 22°11 | 6°35 | 5°22 | 13°49 | 29°41 | 19° 7 | 26°49 | 25°55 | 14°28 | 16°52 | W 5 |
| T 6 | 23 1 53 | 13°41'31 | 14°28 | 14°55 | 27°57 | 22°10 | 6°44 | 5°29 | 13°48 | 29°41 | 19° 7 | 26°42 | 25°51 | 14°35 | 16°53 | T 6 |
| F 7 | 23 5 50 | 14°39'55 | 29° 6 | 16°47 | 28°51 | 22° 7 | 6°52 | 5°36 | 13°48 | 29°41 | 19° 7 | 26°34 | 25°48 | 14°42 | 16°55 | F 7 |
| S 8 | 23 9 47 | 15°38'22 | 14 m) 5 | 18°37 | 29°46 | 22° 4 | 7° 1 | 5°43 | 13°47 | 29°41 | 19° 8 | 26°23 | 25°45 | 14°48 | 16°57 | S 8 |
| S 9 | 23 13 43 | 16°36'51 | 29°14 | 20°26 | 0 Ω 42 | 22° 0 | 7° 9 | 5°50 | 13°46 | 29°41 | 19°8 | 26°12 | 25°42 | 14°55 | 16°58 | S 9 |
| M10 | 23 17 40 | 17°35'21 | 14 ≏ 24 | 22°14 | 1°38 | 21°55 | 7°18 | 5°57 | 13°45 | 29°41 | 19° 8 | 26° 2 | 25°39 | 15° 2 | 17° 0 | M10 |
| T 11 | 23 21 36 | 18°33'53 | 29°24 | 24° 2 | 2°34 | 21°49 | 7°26 | 6° 4 | 13°45 | 29°D41 | 19° 8 | 25°53 | 25°36 | 15° 8 | 17° 2 | T 11 |
| W12 | 23 25 33 | 19°32'27 | 14 M 7 | 25°48 | 3°32 | 21°42 | 7°34 | 6°11 | 13°44 | 29°41 | 19° 8 | 25°48 | 25°32 | 15°15 | 17° 4 | W12 |
| T 13 | 23 29 29 | 20°31'02 | 28°26 | 27°33 | 4°29 | 21°35 | 7°42 | 6°19 | 13°44 | 29°41 | 19° 9 | 25°44 | 25°29 | 15°22 | 17° 6 | T 13 |
| F 14 | 23 33 26 | 21°29'40 | 12 × 21 | 29°17 | 5°27 | 21°26 | 7°50 | 6°26 | 13°43 | 29°41 | 19° 9 | 25°43 | 25°26 | 15°29 | 17° 9 | F 14 |
| S 15 | 23 37 22 | 22°28'19 | 25°51 | 1 요 0 | 6°26 | 21°17 | 7°57 | 6°33 | 13°43 | 29°41 | 19° 9 | 25°43 | 25°23 | 15°35 | 17°11 | S 15 |
| S 16 | 23 41 19 | 23°26'59 | 9 ਰ 1 | 2°42 | 7°25 | 21° 7 | 8° 5 | 6°40 | 13°43 | 29°41 | 19° 9 | 25°43 | 25°20 | 15°42 | 17°13 | S 16 |
| M17 | 23 45 16 | 24°25'41 | 21°51 | 4°23 | 8°24 | 20°56 | 8°12 | 6°47 | 13°42 | 29°41 | 19° 9 | 25°41 | 25°16 | 15°49 | 17°16 | M17 |
| T 18 | 23 49 12 | 25°24'25 | 4≈27 | 6° 3 | 9°24 | 20°45 | 8°19 | 6°55 | 13°42 | 29°42 | 19°R 9 | 25°37 | 25°13 | 15°55 | 17°18 | T 18 |
| W19 | 23 53 9 | 26°23'11 | 16°51 | 7°42 | 10°24 | 20°32 | 8°27 | 7° 2 | 13°42 | 29°42 | 19° 9 | 25°30 | 25°10 | 16° 2 | 17°21 | W19 |
| T 20 | 23 57 5 | 27°21'59 | 29° 6 | 9°20 | 11°25 | 20°19 | 8°33 | 7° 9 | 13°42 | 29°42 | 19° 9 | 25°20 | 25° 7 | 16° 9 | 17°24 | T 20 |
| F 21 | 0 1 2 | 28°20'48 | 11 米 13 | 10°57 | 12°26 | 20° 6 | 8°40 | 7°17 | 13°42 | 29°42 | 19° 9 | 25° 8 | 25° 4 | 16°16 | 17°26 | F 21 |
| S 22 | 0 4 58 | 29°19'39 | 23°14 | 12°33 | 13°27 | 19°51 | 8°47 | 7°24 | 13°41 | 29°43 | 19° 9 | 24°54 | 25° 1 | 16°22 | 17°29 | S 22 |
| S 23 | 0 8 55 | 0 ჲ 18'32 | 5 Υ 10 | 14° 9 | 14°29 | 19°37 | 8°53 | 7°31 | 13°D41 | 29°43 | 19° 9 | 24°40 | 24°57 | 16°29 | 17°32 | S 23 |
| M24 | 0 12 51 | 1°17'28 | 17° 3 | 15°43 | 15°31 | 19°21 | 9° 0 | 7°39 | 13°42 | 29°44 | 19° 9 | 24°26 | 24°54 | 16°36 | 17°35 | M24 |
| T 25 | 0 16 48 | 2°16'25 | 28°54 | 17°17 | 16°33 | 19° 5 | 9° 6 | 7°46 | 13°42 | 29°44 | 19° 8 | 24°14 | 24°51 | 16°42 | 17°38 | T 25 |
| W26 | 0 20 44 | 3°15'25 | 10 8 45 | 18°50 | 17°36 | 18°48 | 9°12 | 7°53 | 13°42 | 29°44 | 19°8 | 24° 5 | 24°48 | 16°49 | 17°42 | W26 |
| T 27 | 0 24 41 | 4°14'27 | 22°39 | 20°21 | 18°39 | 18°31 | 9°18 | 8° 1 | 13°42 | 29°45 | 19°8 | 23°58 | 24°45 | 16°56 | 17°45 | T 27 |
| F 28 | 0 28 38 | 5°13'31 | 4 Ⅲ 38 | 21°52 | 19°43 | 18°14 | 9°23 | 8° 8 | 13°42 | 29°46 | 19°8 | 23°55 | 24°41 | 17° 3 | 17°48 | F 28 |
| S 29 | 0 32 34 | 6°12'37 | 16°47 | 23°23 | 20°47 | 17°56 | 9°29 | 8°15 | 13°43 | 29°46 | 19° 8 | 23°53 | 24°38 | 17° 9 | 17°52 | S 29 |
| S 30 | 0 36 31 | 7 ≙ 11'46 | 29 Ⅱ 11 | 24 ≏ 52 | 21 Q 51 | 17 Y 38 | 9934 | 8 ₾ 23 | 13 石 43 | 29 х 47 | 19耳 8 | 23°D53 | 24 × 35 | 17 Y 16 | 17 ∡ 755 | S 30 |

Delta T = 37.99 sec

Greg. Calendar

OCTOBER 1657 GC 00:00 UT

| Day | Sid.t | \odot | D | ğ | φ | ð | 4 | ħ |)f(| \ | В | ß | v | Ç | ę, | Day |
|------|---------|------------------|----------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|----------------|-----------------|----------------|-----------------|------|
| M 1 | 0 40 27 | 8 ₽ 10'57 | 119555 | 26 ₽ 20 | 22 Ω 55 | 17°R19 | 9 9 40 | 8 亞 30 | 13 る 43 | 29 х 47 | 19°R 7 | 23°R53 | 24 × 32 | 17 Y 23 | 17 ×7 59 | M 1 |
| T 2 | 0 44 24 | 9°10'11 | 25° 3 | 27°48 | 24° 0 | 17 Y 0 | 9°45 | 8°37 | 13°44 | 29°48 | 19 I 7 | 23 × 52 | 24°29 | 17°29 | 18° 2 | T 2 |
| W 3 | 0 48 20 | 10° 9'27 | 8 N 38 | 29°15 | 25° 5 | 16°41 | 9°49 | 8°45 | 13°44 | 29°49 | 19° 7 | 23°49 | 24°26 | 17°36 | 18° 6 | W 3 |
| T 4 | 0 52 17 | 11° 8'45 | 22°44 | 0 M .41 | 26°10 | 16°22 | 9°54 | 8°52 | 13°45 | 29°50 | 19° 6 | 23°44 | 24°22 | 17°43 | 18°10 | T 4 |
| F 5 | 0 56 13 | 12° 8'05 | 7 m 19 | 2° 6 | 27°15 | 16° 3 | 9°59 | 8°59 | 13°45 | 29°50 | 19° 6 | 23°36 | 24°19 | 17°50 | 18°14 | F 5 |
| S 6 | 1 0 10 | 13° 7'28 | 22°18 | 3°30 | 28°21 | 15°44 | 10° 3 | 9° 7 | 13°46 | 29°51 | 19° 6 | 23°27 | 24°16 | 17°56 | 18°18 | S 6 |
| S 7 | 1 4 7 | 14° 6'53 | 7 ≙ 33 | 4°53 | 29°27 | 15°24 | 10° 7 | 9°14 | 13°47 | 29°52 | 19° 5 | 23°16 | 24°13 | 18° 3 | 18°22 | S 7 |
| M 8 | 1 8 3 | 15° 6'19 | 22°53 | 6°15 | 0 m 33 | 15° 5 | 10°11 | 9°22 | 13°48 | 29°53 | 19° 5 | 23° 6 | 24°10 | 18°10 | 18°26 | M 8 |
| T 9 | 1 12 0 | 16° 5'48 | 8M 6 | 7°36 | 1°40 | 14°46 | 10°15 | 9°29 | 13°48 | 29°54 | 19° 4 | 22°58 | 24° 7 | 18°16 | 18°30 | T 9 |
| W10 | 1 15 56 | 17° 5'19 | 23° 3 | 8°56 | 2°46 | 14°27 | 10°19 | 9°36 | 13°49 | 29°55 | 19° 4 | 22°52 | 24° 3 | 18°23 | 18°34 | W10 |
| T 11 | 1 19 53 | 18° 4'52 | 7 .₹ 37 | 10°15 | 3°53 | 14° 8 | 10°22 | 9°44 | 13°50 | 29°56 | 19° 3 | 22°49 | 24° 0 | 18°30 | 18°38 | T 11 |
| F 12 | 1 23 49 | 19° 4'27 | 2 <u>1</u> °42 | 11°33 | 5° 0 | 13°50 | 10°25 | 9°51 | 13°51 | 29°57 | 19° 3 | 22°D48 | 23°57 | 18°37 | 18°43 | F 12 |
| S 13 | 1 27 46 | 20° 4'03 | 5 る 20 | 12°50 | 6° 8 | 13°32 | 10°28 | 9°58 | 13°52 | 29°58 | 19° 2 | 22°49 | 23°54 | 18°43 | 18°47 | S 13 |
| S 14 | 1 31 42 | 21° 3'41 | 18°32 | 14° 5 | 7°15 | 13°14 | 10°31 | 10° 5 | 13°53 | 29°59 | 19° 2 | 22°R49 | 23°51 | 18°50 | 18°52 | S 14 |
| M15 | 1 35 39 | 22° 3'21 | 1≈22 | 15°18 | 8°23 | 12°57 | 10°34 | 10°13 | 13°54 | 29°59 | 19° 1 | 22°49 | 23°47 | 18°57 | 18°56 | M15 |
| T 16 | 1 39 36 | 23° 3'03 | 13°53 | 16°30 | 9°31 | 12°40 | 10°37 | 10°20 | 13°55 | 0ਰ 1 | 19° 1 | 22°46 | 23°44 | 19° 3 | 19° 1 | T 16 |
| W17 | 1 43 32 | 24° 2'46 | 26°10 | 17°40 | 10°39 | 12°23 | 10°39 | 10°27 | 13°57 | 0° 2 | 19° 0 | 22°42 | 23°41 | 19°10 | 19° 5 | W17 |
| T 18 | 1 47 29 | 25° 2'31 | 8) 16 | 18°48 | 11°47 | 12° 7 | 10°41 | 10°34 | 13°58 | 0° 3 | 19° 0 | 22°35 | 23°38 | 19°17 | 19°10 | T 18 |
| F 19 | 1 51 25 | 26° 2'18 | 20°16 | 19°54 | 12°56 | 11°52 | 10°43 | 10°42 | 13°59 | 0° 4 | 18°59 | 22°25 | 23°35 | 19°24 | 19°15 | F 19 |
| S 20 | 1 55 22 | 27° 2'06 | 2 Υ 10 | 20°58 | 14° 4 | 11°37 | 10°45 | 10°49 | 14° 1 | 0° 6 | 18°58 | 22°15 | 23°32 | 19°30 | 19°20 | S 20 |
| S 21 | 1 59 18 | 28° 1'57 | 14° 3 | 21°59 | 15°13 | 11°23 | 10°46 | 10°56 | 14° 2 | 0° 7 | 18°58 | 22° 4 | 23°28 | 19°37 | 19°25 | S 21 |
| M22 | 2 3 15 | 29° 1'49 | 25°55 | 22°57 | 16°22 | 11° 9 | 10°48 | 11° 3 | 14° 3 | 0° 8 | 18°57 | 21°54 | 23°25 | 19°44 | 19°30 | M22 |
| T 23 | 2 7 11 | OM 1'43 | 7 8 47 | 23°52 | 17°31 | 10°56 | 10°49 | 11°10 | 14° 5 | 0°10 | 18°56 | 21°44 | 23°22 | 19°50 | 19°35 | T 23 |
| W24 | 2 11 8 | 1° 1'40 | 19°42 | 24°43 | 18°41 | 10°44 | 10°50 | 11°17 | 14° 7 | 0°11 | 18°56 | 21°38 | 23°19 | 19°57 | 19°40 | W24 |
| T 25 | 2 15 4 | 2° 1'38 | 1 Ⅱ 42 | 25°31 | 19°50 | 10°33 | 10°50 | 11°24 | 14° 8 | 0°12 | 18°55 | 21°33 | 23°16 | 20° 4 | 19°45 | T 25 |
| F 26 | 2 19 1 | 3° 1'39 | 13°47 | 26°14 | 21° 0 | 10°22 | 10°51 | 11°31 | 14°10 | 0°14 | 18°54 | 21°31 | 23°12 | 20°10 | 19°50 | F 26 |
| S 27 | 2 22 58 | 4° 1'41 | 26° 2 | 26°52 | 22°10 | 10°12 | 10°51 | 11°39 | 14°11 | 0°15 | 18°53 | 21°D31 | 23° 9 | 20°17 | 19°55 | S 27 |
| S 28 | 2 26 54 | 5° 1'46 | 8930 | 27°25 | 23°20 | 10° 3 | 10°R52 | 11°46 | 14°13 | 0°17 | 18°53 | 21°32 | 23° 6 | 20°24 | 20° 1 | S 28 |
| M29 | 2 30 51 | 6° 1'52 | 21°14 | 27°52 | 24°30 | 9°54 | 10°52 | 11°52 | 14°15 | 0°18 | 18°52 | 21°33 | 23° 3 | 20°31 | 20° 6 | M29 |
| T 30 | 2 34 47 | 7° 2'01 | 4 Ω 19 | 28°12 | 25°40 | 9°47 | 10°51 | 11°59 | 14°17 | 0°20 | 18°51 | 21°R34 | 23° 0 | 20°37 | 20°11 | T 30 |
| W31 | 2 38 44 | 8M 2'12 | 17 Ω 47 | 28M25 | 26Mp51 | 9 Υ 40 | 10951 | 12 ♀ 6 | 14 궁 19 | 0පි21 | 18耳50 | 21 × 33 | 22 × 757 | 20 Y 44 | 20 × 17 | W31 |

Delta T = 37.93 sec

NOVEMBER 1657 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Ŷ | ð | 4 | ħ |)Å(| ¥ | В | ß | v | Ç | ę, | Day |
|------|---------|-------------------|-----------------|----------------|---------------|----------------|--------|----------------|----------------|---------------|----------------|-----------------------------|-----------------|----------------|----------------|------|
| T 1 | 2 42 40 | 9M 2'25 | 1 m) 41 | 28°R30 | 28M) 2 | 9°R33 | 10°R50 | 12 ≏ 13 | 14 ට 21 | 0る23 | 18°R49 | 21°R31 | 22 × 753 | 20 Y 51 | 20 × 22 | T 1 |
| F 2 | 2 46 37 | 10° 2'40 | 16° 2 | 28M26 | 29°12 | 9 Υ 28 | 109549 | 12°20 | 14°23 | 0°24 | 18 Ⅱ 48 | 21 × ⁷ 27 | 22°50 | 20°57 | 20°28 | F 2 |
| S 3 | 2 50 33 | 11° 2'57 | 0 ჲ 46 | 28°13 | 0 ჲ 23 | 9°24 | 10°48 | 12°27 | 14°25 | 0°26 | 18°47 | 21°22 | 22°47 | 21° 4 | 20°33 | S 3 |
| S 4 | 2 54 30 | 12° 3'16 | 15°48 | 27°50 | 1°34 | 9°20 | 10°47 | 12°34 | 14°27 | 0°28 | 18°47 | 21°16 | 22°44 | 21°11 | 20°39 | S 4 |
| M 5 | 2 58 27 | 13° 3'37 | 0 M .59 | 27°18 | 2°45 | 9°17 | 10°46 | 12°40 | 14°29 | 0°29 | 18°46 | 21°10 | 22°41 | 21°18 | 20°45 | M 5 |
| T 6 | 3 2 23 | 14° 4'00 | 16°10 | 26°35 | 3°57 | 9°15 | 10°44 | 12°47 | 14°31 | 0°31 | 18°45 | 21° 5 | 22°38 | 21°24 | 20°50 | T 6 |
| W 7 | 3 6 20 | 15° 4'25 | 1 才 10 | 25°43 | 5° 8 | 9°14 | 10°42 | 12°54 | 14°33 | 0°33 | 18°44 | 21° 2 | 22°34 | 21°31 | 20°56 | W 7 |
| T 8 | 3 10 16 | 16° 4'51 | 1 <u>5</u> °50 | 24°42 | 6°19 | 9°D13 | 10°40 | 13° 0 | 14°35 | 0°34 | 18°43 | 21°D 0 | 22°31 | 21°38 | 21° 2 | T 8 |
| F 9 | 3 14 13 | 17° 5'19 | 0중 5 | 23°33 | 7°31 | 9°14 | 10°38 | 13° 7 | 14°37 | 0°36 | 18°42 | 21° 0 | 22°28 | 21°44 | 21° 8 | F 9 |
| S 10 | 3 18 9 | 18° 5'48 | 13°53 | 22°17 | 8°43 | 9°15 | 10°36 | 13°13 | 14°40 | 0°38 | 18°41 | 21° 2 | 22°25 | 21°51 | 21°14 | S 10 |
| S 11 | 3 22 6 | 19° 6'18 | 27°14 | 20°58 | 9°54 | 9°17 | 10°33 | 13°20 | 14°42 | 0°40 | 18°40 | 21° 3 | 22°22 | 21°58 | 21°20 | S 11 |
| M12 | 3 26 3 | 20° 6'50 | 10≈ 9 | 19°37 | 11° 6 | 9°19 | 10°30 | 13°26 | 14°44 | 0°41 | 18°39 | 21° 5 | 22°18 | 22° 4 | 21°26 | M12 |
| T 13 | 3 29 59 | 21° 7'23 | 22°43 | 18°17 | 12°18 | 9°23 | 10°27 | 13°32 | 14°47 | 0°43 | 18°38 | 21°R 5 | 22°15 | 22°11 | 21°32 | T 13 |
| W14 | 3 33 56 | 22° 7'57 | 5 ₩ 0 | 17° 0 | 13°30 | 9°27 | 10°24 | 13°39 | 14°49 | 0°45 | 18°37 | 21° 4 | 22°12 | 22°18 | 21°38 | W14 |
| T 15 | 3 37 52 | 23° 8'33 | 17° 4 | 15°50 | 14°42 | 9°32 | 10°20 | 13°45 | 14°52 | 0°47 | 18°36 | 21° 2 | 22° 9 | 22°25 | 21°44 | T 15 |
| F 16 | 3 41 49 | 24° 9'09 | 29° 1 | 14°49 | 15°55 | 9°38 | 10°17 | 13°51 | 14°54 | 0°49 | 18°35 | 20°59 | 22° 6 | 22°31 | 21°50 | F 16 |
| S 17 | 3 45 45 | 25° 9'47 | 10 Y 53 | 13°57 | 17° 7 | 9°45 | 10°13 | 13°57 | 14°57 | 0°51 | 18°34 | 20°54 | 22° 3 | 22°38 | 21°56 | S 17 |
| S 18 | 3 49 42 | 26°10'26 | 22°44 | 13°16 | 18°19 | 9°52 | 10° 9 | 14° 4 | 15° 0 | 0°53 | 18°33 | 20°50 | 21°59 | 22°45 | 22° 2 | S 18 |
| M19 | 3 53 38 | 27°11'07 | 4 8 37 | 12°46 | 19°32 | 10° 0 | 10° 5 | 14°10 | 15° 2 | 0°55 | 18°32 | 20°46 | 21°56 | 22°51 | 22° 8 | M19 |
| T 20 | 3 57 35 | 28°11'48 | 16°33 | 12°29 | 20°45 | 10° 8 | 10° 1 | 14°16 | 15° 5 | 0°57 | 18°30 | 20°42 | 21°53 | 22°58 | 22°14 | T 20 |
| W21 | 4 1 31 | 29°12'31 | 28°36 | 12°D22 | 21°57 | 10°18 | 9°56 | 14°22 | 15° 8 | 0°59 | 18°29 | 20°39 | 21°50 | 23° 5 | 22°21 | W21 |
| T 22 | 4 5 28 | 0 ₹ 13'16 | 10 ∏ 46 | 12°27 | 23°10 | 10°28 | 9°52 | 14°27 | 15°10 | 1° 1 | 18°28 | 20°38 | 21°47 | 23°12 | 22°27 | T 22 |
| F 23 | 4 9 25 | 1°14'01 | 23° 5 | 12°41 | 24°23 | 10°38 | 9°47 | 14°33 | 15°13 | 1° 3 | 18°27 | 20°D38 | 21°44 | 23°18 | 22°33 | F 23 |
| S 24 | 4 13 21 | 2°14'49 | 5935 | 13° 5 | 25°36 | 10°50 | 9°42 | 14°39 | 15°16 | 1° 5 | 18°26 | 20°38 | 21°40 | 23°25 | 22°39 | S 24 |
| S 25 | 4 17 18 | 3°15'37 | 18°17 | 13°38 | 26°49 | 11° 2 | 9°37 | 14°45 | 15°19 | 1° 7 | 18°25 | 20°39 | 21°37 | 23°32 | 22°46 | S 25 |
| M26 | 4 21 14 | 4°16'27 | 1 Ω 12 | 14°18 | 28° 2 | 11°14 | 9°31 | 14°50 | 15°22 | 1° 9 | 18°24 | 20°41 | 21°34 | 23°38 | 22°52 | M26 |
| T 27 | 4 25 11 | 5°17'18 | 14°23 | 15° 4 | 29°15 | 11°27 | 9°26 | 14°56 | 15°24 | 1°11 | 18°23 | 20°42 | 21°31 | 23°45 | 22°59 | T 27 |
| W28 | 4 29 7 | 6°18'11 | 27°52 | 15°57 | 0M28 | 11°41 | 9°20 | 15° 2 | 15°27 | 1°13 | 18°22 | 20°43 | 21°28 | 23°52 | 23° 5 | W28 |
| T 29 | 4 33 4 | 7°19'05 | 11 m 39 | 16°55 | 1°42 | 11°55 | 9°14 | 15° 7 | 15°30 | 1°15 | 18°20 | 20°R43 | 21°24 | 23°58 | 23°11 | T 29 |
| F 30 | 4 37 1 | 8 ∡ 120'00 | 25 M 45 | 17 M 57 | 2M55 | 12 Y 10 | 995 8 | 15 ≏ 12 | 15 る 33 | 1 る 17 | 18 Ⅱ 19 | 20 ∡ 142 | 21 ~ 21 | 24 Y 5 | 23 × 18 | F 30 |

Delta T = 37.87 sec

Greg. Calendar

| DECEMBER 1657 GC | 00:00 UT |
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| DECEMBER 1037 GC | 00:00 01 |

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | В | v | Ω | Ç | Š. | Day |
|------|---------|-------------------|-----------------|---------------|--------------|----------------|-------|----------------|----------------|---------------|-----------------|-----------------|-----------------|----------------|-----------------|------|
| S 1 | 4 40 57 | 9 × 720'57 | 10₽9 | 19 M 3 | 4M 8 | 12 Y 25 | 9°R 2 | 15 ≏ 18 | 15 云 36 | 1 る 19 | 18°R18 | 20°R41 | 21 × 18 | 24 Y 12 | 23 × 24 | S 1 |
| S 2 | 4 44 54 | 10°21'55 | 24°47 | 20°13 | 5°22 | 12°41 | 8956 | 15°23 | 15°39 | 1°22 | 18 I I17 | 20 ∡ 140 | 21°15 | 24°19 | 23°31 | S 2 |
| M 3 | 4 48 50 | 11°22'54 | 9 M .34 | 21°26 | 6°35 | 12°58 | 8°50 | 15°28 | 15°42 | 1°24 | 18°16 | 20°39 | 21°12 | 24°25 | 23°37 | M 3 |
| T 4 | 4 52 47 | 12°23'54 | 24°24 | 22°41 | 7°49 | 13°15 | 8°43 | 15°33 | 15°46 | 1°26 | 18°15 | 20°38 | 21° 9 | 24°32 | 23°44 | T 4 |
| W 5 | 4 56 43 | 13°24'56 | 9 ,₹ 8 | 23°58 | 9° 3 | 13°32 | 8°36 | 15°38 | 15°49 | 1°28 | 18°13 | 20°37 | 21° 5 | 24°39 | 23°50 | W 5 |
| T 6 | 5 0 40 | 14°25'58 | 23°40 | 25°17 | 10°16 | 13°50 | 8°30 | 15°43 | 15°52 | 1°30 | 18°12 | 20°D37 | 21° 2 | 24°45 | 23°57 | T 6 |
| F 7 | 5 4 36 | 15°27'01 | 7 궁 54 | 26°38 | 11°30 | 14° 9 | 8°23 | 15°48 | 15°55 | 1°32 | 18°11 | 20°38 | 20°59 | 24°52 | 24° 3 | F 7 |
| S 8 | 5 8 33 | 16°28'05 | 21°45 | 28° 0 | 12°44 | 14°28 | 8°16 | 15°53 | 15°58 | 1°35 | 18°10 | 20°38 | 20°56 | 24°59 | 24°10 | S 8 |
| S 9 | 5 12 30 | 17°29'09 | 5≈11 | 29°24 | 13°58 | 14°47 | 8° 9 | 15°58 | 16° 1 | 1°37 | 18° 9 | 20°38 | 20°53 | 25° 5 | 24°16 | S 9 |
| M10 | 5 16 26 | 18°30'14 | 18°13 | 0 才 49 | 15°11 | 15° 7 | 8° 1 | 16° 2 | 16° 5 | 1°39 | 18° 8 | 20°39 | 20°50 | 25°12 | 24°23 | M10 |
| T 11 | 5 20 23 | 19°31'19 | 0 ∺ 53 | 2°14 | 16°25 | 15°27 | 7°54 | 16° 7 | 16° 8 | 1°41 | 18° 6 | 20°39 | 20°46 | 25°19 | 24°29 | T 11 |
| W12 | 5 24 19 | 20°32'25 | 13°14 | 3°41 | 17°39 | 15°48 | 7°47 | 16°11 | 16°11 | 1°44 | 18° 5 | 20°39 | 20°43 | 25°26 | 24°36 | W12 |
| T 13 | 5 28 16 | 21°33'31 | 25°20 | 5° 8 | 18°53 | 16° 9 | 7°39 | 16°16 | 16°14 | 1°46 | 18° 4 | 20°39 | 20°40 | 25°32 | 24°42 | T 13 |
| F 14 | 5 32 12 | 22°34'37 | 7 Υ 17 | 6°35 | 20° 7 | 16°31 | 7°31 | 16°20 | 16°18 | 1°48 | 18° 3 | 20°39 | 20°37 | 25°39 | 24°49 | F 14 |
| S 15 | 5 36 9 | 23°35'44 | 19° 8 | 8° 4 | 21°21 | 16°53 | 7°24 | 16°24 | 16°21 | 1°50 | 18° 2 | 20°39 | 20°34 | 25°46 | 24°56 | S 15 |
| S 16 | 5 40 5 | 24°36'50 | 0 8 59 | 9°32 | 22°35 | 17°15 | 7°16 | 16°28 | 16°24 | 1°53 | 18° 1 | 20°40 | 20°30 | 25°52 | 25° 2 | S 16 |
| M17 | 5 44 2 | 25°37'57 | 12°53 | 11° 2 | 23°50 | 17°38 | 7° 8 | 16°33 | 16°28 | 1°55 | 17°59 | 20°40 | 20°27 | 25°59 | 25° 9 | M17 |
| T 18 | 5 47 59 | 26°39'05 | 24°55 | 12°31 | 25° 4 | 18° 1 | 7° 0 | 16°37 | 16°31 | 1°57 | 17°58 | 20°41 | 20°24 | 26° 6 | 25°15 | T 18 |
| W19 | 5 51 55 | 27°40'12 | 7 I I 6 | 14° 1 | 26°18 | 18°25 | 6°52 | 16°40 | 16°35 | 1°59 | 17°57 | 20°41 | 20°21 | 26°12 | 25°22 | W19 |
| T 20 | 5 55 52 | 28°41'20 | 19°29 | 15°32 | 27°32 | 18°49 | 6°45 | 16°44 | 16°38 | 2° 2 | 17°56 | 20°R41 | 20°18 | 26°19 | 25°28 | T 20 |
| F 21 | 5 59 48 | 29°42'28 | 295 5 | 17° 3 | 28°46 | 19°13 | 6°37 | 16°48 | 16°42 | 2° 4 | 17°55 | 20°41 | 20°15 | 26°26 | 25°35 | F 21 |
| S 22 | 6 3 45 | 0 중 43'37 | 14°55 | 18°34 | 0 √ 1 | 19°37 | 6°28 | 16°52 | 16°45 | 2° 6 | 17°54 | 20°41 | 20°11 | 26°33 | 25°41 | S 22 |
| S 23 | 6 741 | 1°44'46 | 28° 0 | 20° 5 | 1°15 | 20° 2 | 6°20 | 16°55 | 16°48 | 2° 8 | 17°53 | 20°39 | 20° 8 | 26°39 | 25°48 | S 23 |
| M24 | 6 11 38 | 2°45'55 | 11 Ω 17 | 21°37 | 2°29 | 20°27 | 6°12 | 16°59 | 16°52 | 2°11 | 17°51 | 20°38 | 20° 5 | 26°46 | 25°54 | M24 |
| T 25 | 6 15 34 | 3°47'04 | 24°48 | 23° 9 | 3°44 | 20°53 | 6° 4 | 17° 2 | 16°55 | 2°13 | 17°50 | 20°36 | 20° 2 | 26°53 | 26° 1 | T 25 |
| W26 | 6 19 31 | 4°48'14 | 8 Mp 30 | 24°41 | 4°58 | 21°18 | 5°56 | 17° 5 | 16°59 | 2°15 | 17°49 | 20°34 | 19°59 | 26°59 | 26° 7 | W26 |
| T 27 | 6 23 28 | 5°49'24 | 22°23 | 26°14 | 6°13 | 21°44 | 5°48 | 17° 8 | 17° 2 | 2°17 | 17°48 | 20°33 | 19°56 | 27° 6 | 26°14 | T 27 |
| F 28 | 6 27 24 | 6°50'34 | 6 Ω 25 | 27°47 | 7°27 | 22°11 | 5°40 | 17°12 | 17° 6 | 2°20 | 17°47 | 20°D33 | 19°52 | 27°13 | 26°20 | F 28 |
| S 29 | 6 31 21 | 7°51'45 | 20°36 | 29°21 | 8°42 | 22°37 | 5°32 | 17°15 | 17° 9 | 2°22 | 17°46 | 20°33 | 19°49 | 27°19 | 26°27 | S 29 |
| S 30 | 6 35 17 | 8°52'56 | 4ML52 | 0 궁 54 | 9°56 | 23° 4 | 5°24 | 17°17 | 17°13 | 2°24 | 17°45 | 20°34 | 19°46 | 27°26 | 26°33 | S 30 |
| M31 | 6 39 14 | 9 ප 54'07 | 19 M .12 | 2 る 28 | 11711 | 23 Y 31 | 59916 | 17 ≏ 20 | 17 ਰ 16 | 2 ප 27 | 17 Ⅱ 44 | 20 ∡ ³36 | 19 × 743 | 27 Y 33 | 26 ∡ 140 | M31 |

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JANUARY 1658 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)f(| 卉 | Р | v | Ω | Ç | ę, | Day |
|--------------|--------------------|----------------------|--------------------------|-------------------------|-------------------------|-----------------------|-----------------------|-------------------------|----------------|-----------------------|----------------|--------------------------|----------------|----------------|--------------------------|-------------|
| T 1 | 6 43 10 | 10 ට 555'18 | 3 ₹ 32 | 4る 3 | 12 × 25 | 23 Y 58 | 5°R 7 | 17 ≏ 23 | 17 る 20 | 2 る 29 | 17°R43 | 20 ∡ 37 | 19 ৴ 40 | 27 Y 39 | 26 × 746 | T 1 |
| W 2 | 6 47 7 | 11°56'30 | 1 <u>7</u> °48 | 5°38 | 13°40 | 24°26 | 4959 | 17°25 | 17°24 | 2°31 | 17 Ⅱ 42 | 20°R37 | 19°36 | 27°46 | 26°53 | W 2 |
| T 3 | 6 51 3 | 12°57'41 | 1 る 57 | 7°13 | 14°54 | 24°54 | 4°51 | 17°28 | 17°27 | 2°33 | 17°40 | 20°37 | 19°33 | 27°53 | 26°59 | T 3 |
| F 4 | 6 55 0 | 13°58'53 | 15°53 | 8°49 | 16° 9 | 25°22 | 4°43 | 17°30 | 17°31 | 2°36 | 17°39 | 20°36 | 19°30 | 28° 0 | 27° 5 | F 4 |
| S 5 | 6 58 57 | 15° 0'04 | 29°34 | 10°25 | 17°24 | 25°50 | 4°36 | 17°33 | 17°34 | 2°38 | 17°38 | 20°33 | 19°27 | 28° 6 | 27°12 | S 5 |
| S 6 | 7 2 53 | 16° 1'14 | 12≈55 | 12° 1 | 18°38 | 26°19 | 4°28 | 17°35 | 17°38 | 2°40 | 17°37 | 20°29 | 19°24 | 28°13 | 27°18 | S 6 |
| M 7 | 7 6 50 | 17° 2'25 | 25°57 | 13°38 | 19°53 | 26°47 | 4°20 | 17°37 | 17°41 | 2°42 | 17°36 | 20°24 | 19°21 | 28°20 | 27°24 | M 7 |
| T 8 | 7 10 46 | 18° 3'34 | 8) 38 | 15°16 | 21° 7 | 27°16 | 4°12 | 17°39 | 17°45 | 2°44 | 17°35 | 20°20 | 19°17 | 28°26 | 27°30 | T 8 |
| W 9 | 7 14 43 | 19° 4'43 | 21° 2 3 Y 11 | 16°54 18°32 | 22°22 23°37 | 27°46 | 4° 5 | 17°41 | 17°48 17°52 | 2°47 | 17°34 | 20°16 | 19°14 | 28°33 | 27°37 27°43 | W 9 T 10 |
| T 10 F 11 | 7 18 39 7 22 36 | 20° 5'51 21° 6'58 | 15° 9 | 18°32 20°11 | 23°37 24°51 | 28°15 28°45 | 3°57 3°50 | 17°43 17°44 | 17°52 17°55 | 2°49 2°51 | 17°33 17°32 | 20°13 20°12 | 19°11 19°8 | 28°40 28°46 | 27°43 27°49 | F 11 |
| S 12 | 7 26 32 | 21° 8'05 | 27° 1 | 20°11 | 26° 6 | 28°43 29°14 | 3°42 | 17°46 | 17°59 | 2°53 | 17°31 | 20°D12 | 19° 5 | 28°53 | 27°55 | S 12 |
| | | | | | | _ | | | | | | | | | | |
| S 13 | 7 30 29 | 23° 9'11 | 8 8 51 | 23°31 25°11 | 27°21 28°36 | 29°44 | 3°35 | 17°47 | 18° 3 18° 6 | 2°55 | 17°31 17°30 | 20°13 20°15 | 19° 2 | 29° 0 29° 6 | 28° 1 28° 7 | S 13 |
| M14 T 15 | 7 34 26 7 38 22 | 24°10'16 25°11'20 | 20°45 2 ∏ 48 | 25°11 26°52 | 28°36 29°50 | 0 8 14 0°45 | 3°28 3°21 | 17°49 17°50 | 18° 6 18°10 | 2°58 3° 0 | 17°30 17°29 | 20°15 20°16 | 18°58 18°55 | 29° 6 29°13 | 28° / 28°13 | M14 T 15 |
| W16 | 7 42 19 | 26°12'23 | 15° 4 | 28°34 | 29 30 1 궁 5 | 1°15 | 3°14 | 17°51 | 18°13 | 3° 2 | 17°28 | 20°R17 | 18°52 | 29°20 | 28°19 | W16 |
| T 17 | 7 46 15 | 27°13'25 | 27°37 | 0≈16 | 2°20 | 1°46 | 3° 7 | 17°52 | 18°17 | 3° 4 | 17°27 | 20°17 | 18°49 | 29°27 | 28°25 | T 17 |
| F 18 | 7 50 12 | 28°14'27 | 109528 | 1°59 | 3°34 | 2°17 | 3° 0 | 17°53 | 18°20 | 3° 6 | 17°26 | 20°15 | 18°46 | 29°33 | 28°31 | F 18 |
| S 19 | 7 54 8 | 29°15'28 | 23°38 | 3°42 | 4°49 | 2°48 | 2°54 | 17°54 | 18°24 | 3° 8 | 17°25 | 20°12 | 18°42 | 29°40 | 28°37 | S 19 |
| S 20 | 7 58 5 | 0≈16'27 | 7 Ω 8 | 5°26 | 6° 4 | 3°19 | 2°47 | 17°55 | 18°27 | 3°10 | 17°24 | 20° 6 | 18°39 | 29°47 | 28°43 | S 20 |
| M21 | 8 2 2 | 1°17'26 | 20°54 | 7°10 | 7°19 | 3°50 | 2°41 | 17°55 | 18°31 | 3°12 | 17°24 | 19°59 | 18°36 | 29°53 | 28°49 | M21 |
| T 22 | 8 5 58 | 2°18'24 | 4 m 53 | 8°54 | 8°33 | 4°21 | 2°35 | 17°56 | 18°34 | 3°14 | 17°23 | 19°52 | 18°33 | 0 8 0 | 28°55 | T 22 |
| W23 | 8 9 55 | 3°19'21 | 19° 0 | 10°39 | 9°48 | 4°53 | 2°29 | 17°56 | 18°38 | 3°16 | 17°22 | 19°45 | 18°30 | 0° 7 | 29° 0 | W23 |
| T 24 | 8 13 51 | 4°20'18 | 3 <u>₽</u> 13 | 12°25 | 11° 3 | 5°25 | 2°23 | 17°56 | 18°41 | 3°18 | 17°21 | 19°40 | 18°27 | 0°13 | 29° 6 | T 24 |
| F 25 | 8 17 48 | 5°21'14 | 17°26 | 14°10 | 12°18 | 5°57 | 2°17 | 17°57 | 18°45 | 3°20 | 17°21 | 19°36 | 18°23 | 0°20 | 29°12 | F 25 |
| S 26 | 8 21 44 | 6°22'09 | 1 M 37 | 15°56 | 13°32 | 6°28 | 2°11 | 17°R57 | 18°48 | 3°22 | 17°20 | 19°D35 | 18°20 | 0°27 | 29°17 | S 26 |
| S 27 | 8 25 41 | 7°23'03 | 15°43 | 17°41 | 14°47 | 7° 1 | 2° 6 | 17°57 | 18°51 | 3°24 | 17°19 | 19°35 | 18°17 | 0°33 | 29°23 | S 27 |
| M28 | 8 29 37 | 8°23'57 | 29°45 | 19°26 | 16° 2 | 7°33 | 2° 1 | 17°57 | 18°55 | 3°26 | 17°18 | 19°36 | 18°14 | 0°40 | 29°28 | M28 |
| T 29 W30 | 8 33 34 8 37 31 | 9°24'50 10°25'42 | 13 ∡ 740 27°29 | 21°11 22°56 | 17°17 18°32 | 8° 5 8°38 | 1°56 1°51 | 17°56 17°56 | 18°58 19°2 | 3°28 3°30 | 17°18 17°17 | 19°R37 19°37 | 18°11 18° 8 | 0°47 0°54 | 29°34 29°39 | T 29 W30 |
| T 31 | 8 41 27 | 10°25'42 11≈26'33 | 27°29 11 る 9 | 22°36 24 ≈ 39 | 18°32 19 중 46 | 9 8 10 | 1°51 1 © 46 | 17°56 17 ≏ 56 | 19° 2 | 3~30 3 石 32 | 17 1 16 | 19°37 19 × 735 | 18° 8 | 18 0 | 29°39 29 × 745 | T 31 |
| 1 31 | 0 41 4/ | 11~2033 | 110 9 | 24~>39 | 19040 | 9010 | 1-2-40 | 1/==30 | 190 3 | 3032 | 1/110 | 177 33 | 107 4 | 10 0 | 43 A 4 3 | 1 31 |

Delta T = 37.76 sec Greg. G

Greg. Calendar

FEBRUARY 1658 GC 00:00 UT

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|------|----------|------------------|-----------------|---------------|-------|---------------|-------|----------------|----------------|---------------|----------------|----------------|----------------|--------------|-----------------|------|
| F 1 | 8 45 24 | 12≈27'23 | 24 중 40 | 26≈22 | 21중 1 | 9 8 43 | 1°R41 | 17°R55 | 19る8 | 3 ට 34 | 17°R16 | 19°R30 | 18 × 1 | 1 8 7 | 29 × 750 | F 1 |
| S 2 | 8 49 20 | 13°28'12 | 7≈59 | 28° 3 | 22°16 | 10°16 | 19937 | 17 ≏ 54 | 19°12 | 3°36 | 17 Ⅱ 15 | 19 × 23 | 17°58 | 1°14 | 29°55 | S 2 |
| S 3 | 8 53 17 | 14°28'59 | 21° 5 | 29°42 | 23°31 | 10°49 | 1°33 | 17°54 | 19°15 | 3°38 | 17°15 | 19°14 | 17°55 | 1°20 | 0 중 0 | S 3 |
| M 4 | 8 57 13 | 15°29'45 | 3 \ 56 | 1) 18 | 24°46 | 11°22 | 1°28 | 17°53 | 19°18 | 3°39 | 17°14 | 19° 3 | 17°52 | 1°27 | 0° 6 | M 4 |
| T 5 | 9 1 10 | 16°30'30 | 16°32 | 2°52 | 26° 0 | 11°55 | 1°25 | 17°52 | 19°22 | 3°41 | 17°14 | 18°52 | 17°48 | 1°34 | 0°11 | T 5 |
| W 6 | 9 5 6 | 17°31'13 | 28°52 | 4°23 | 27°15 | 12°28 | 1°21 | 17°51 | 19°25 | 3°43 | 17°13 | 18°42 | 17°45 | 1°40 | 0°16 | W 6 |
| T 7 | 9 9 3 | 18°31'54 | 11 Y 0 | 5°49 | 28°30 | 13° 1 | 1°17 | 17°49 | 19°28 | 3°45 | 17°13 | 18°33 | 17°42 | 1°47 | 0°21 | T 7 |
| F 8 | 9 13 0 | 19°32'34 | 22°57 | 7°11 | 29°45 | 13°35 | 1°14 | 17°48 | 19°31 | 3°47 | 17°12 | 18°27 | 17°39 | 1°54 | 0°26 | F 8 |
| S 9 | 9 16 56 | 20°33'12 | 4848 | 8°27 | 1≈ 0 | 14° 8 | 1°11 | 17°47 | 19°34 | 3°48 | 17°12 | 18°24 | 17°36 | 2° 0 | 0°31 | S 9 |
| S 10 | 9 20 53 | 21°33'49 | 16°37 | 9°37 | 2°14 | 14°42 | 1° 8 | 17°45 | 19°38 | 3°50 | 17°11 | 18°D22 | 17°33 | 2° 7 | 0°35 | S 10 |
| M11 | 9 24 49 | 22°34'24 | 28°30 | 10°41 | 3°29 | 15°15 | 1° 5 | 17°44 | 19°41 | 3°52 | 17°11 | 18°22 | 17°29 | 2°14 | 0°40 | M11 |
| T 12 | 9 28 46 | 23°34'57 | 10耳32 | 11°37 | 4°44 | 15°49 | 1° 3 | 17°42 | 19°44 | 3°53 | 17°10 | 18°23 | 17°26 | 2°20 | 0°45 | T 12 |
| W13 | 9 32 42 | 24°35'28 | 22°48 | 12°25 | 5°59 | 16°23 | 1° 0 | 17°40 | 19°47 | 3°55 | 17°10 | 18°R23 | 17°23 | 2°27 | 0°49 | W13 |
| T 14 | 9 36 39 | 25°35'58 | 5923 | 13° 4 | 7°13 | 16°57 | 0°58 | 17°38 | 19°50 | 3°56 | 17°10 | 18°21 | 17°20 | 2°34 | 0°54 | T 14 |
| F 15 | 9 40 35 | 26°36'25 | 18°20 | 13°34 | 8°28 | 17°31 | 0°56 | 17°36 | 19°53 | 3°58 | 17° 9 | 18°18 | 17°17 | 2°40 | 0°59 | F 15 |
| S 16 | 9 44 32 | 27°36'51 | 1 Ω 43 | 13°54 | 9°43 | 18° 5 | 0°54 | 17°34 | 19°56 | 4° 0 | 17° 9 | 18°11 | 17°14 | 2°47 | 1° 3 | S 16 |
| S 17 | 9 48 29 | 28°37'15 | 15°31 | 14° 4 | 10°58 | 18°39 | 0°53 | 17°32 | 19°59 | 4° 1 | 17° 9 | 18° 3 | 17°10 | 2°54 | 1° 7 | S 17 |
| M18 | 9 52 25 | 29°37'37 | 29°40 | 14°R 5 | 12°12 | 19°13 | 0°51 | 17°30 | 20° 2 | 4° 3 | 17° 9 | 17°52 | 17° 7 | 3° 1 | 1°12 | M18 |
| T 19 | 9 56 22 | 0) 37′58 | 14 Mp 7 | 13°55 | 13°27 | 19°48 | 0°50 | 17°28 | 20° 5 | 4° 4 | 17° 8 | 17°40 | 17° 4 | 3° 7 | 1°16 | T 19 |
| W20 | 10 0 18 | 1°38'16 | 28°44 | 13°36 | 14°42 | 20°22 | 0°49 | 17°25 | 20° 8 | 4° 5 | 17° 8 | 17°29 | 17° 1 | 3°14 | 1°20 | W20 |
| T 21 | 10 4 15 | 2°38'34 | 13 <u>₽</u> 24 | 13° 7 | 15°57 | 20°56 | 0°49 | 17°23 | 20°11 | 4° 7 | 17° 8 | 17°20 | 16°58 | 3°21 | 1°24 | T 21 |
| F 22 | 10 8 11 | 3°38'49 | 27°59 | 12°30 | 17°11 | 21°31 | 0°48 | 17°20 | 20°13 | 4° 8 | 17° 8 | 17°13 | 16°54 | 3°27 | 1°28 | F 22 |
| S 23 | 10 12 8 | 4°39'04 | 12 M 24 | 11°46 | 18°26 | 22° 6 | 0°48 | 17°17 | 20°16 | 4°10 | 17° 8 | 17° 9 | 16°51 | 3°34 | 1°32 | S 23 |
| S 24 | 10 16 4 | 5°39'16 | 26°37 | 10°55 | 19°41 | 22°40 | 0°D47 | 17°14 | 20°19 | 4°11 | 17° 7 | 17° 8 | 16°48 | 3°41 | 1°36 | S 24 |
| M25 | 10 20 1 | 6°39'28 | 10 ∡ ³35 | 9°59 | 20°55 | 23°15 | 0°47 | 17°12 | 20°22 | 4°12 | 17° 7 | 17° 8 | 16°45 | 3°47 | 1°40 | M25 |
| T 26 | 10 23 57 | 7°39'38 | 2 <u>4</u> °19 | 9° 0 | 22°10 | 23°49 | 0°48 | 17° 9 | 20°24 | 4°13 | 17° 7 | 17° 8 | 16°42 | 3°54 | 1°44 | T 26 |
| W27 | 10 27 54 | 8°39'46 | 7 조 49 | 7°59 | 23°25 | 24°24 | 0°48 | 17° 6 | 20°27 | 4°15 | 17° 7 | 17° 6 | 16°39 | 4° 1 | 1°47 | W27 |
| T 28 | 10 31 51 | 9 米 39'53 | 21중 8 | 6 ¥ 57 | 24≈40 | 24859 | 09649 | 17 ♀ 2 | 20 궁 30 | 4 궁 16 | 17 I 7 | 17 ⋌ 3 | 16 ₹ 35 | 4 Σ | 1 ප 51 | T 28 |

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| F 1 | 10 35 47 | 10 米 39′58 | 4≈15 | 5°R55 | 25≈54 | 25 8 34 | 09549 | 16°R59 | 20 궁 32 | 4 ට 17 | 17°D 7 | 16°R56 | 16 ₮ 32 | 4814 | 1 る 54 | F 1 |
| S 2 | 10 39 44 | 11°40'01 | 17°11 | 4) ₹56 | 27° 9 | 26° 9 | 0°50 | 16 ≏ 56 | 20°35 | 4°18 | 17 I 7 | 16 ∡ 747 | 16°29 | 4°21 | 1°58 | S 2 |
| S 3 | 10 43 40 | 12°40'02 | 29°57 | 4° 1 | 28°24 | 26°44 | 0°52 | 16°53 | 20°37 | 4°19 | 17° 7 | 16°34 | 16°26 | 4°27 | 2° 1 | S 3 |
| M 4 | 10 47 37 | 13°40'02 | 12) (31 | 3° 9 | 29°38 | 27°19 | 0°53 | 16°49 | 20°40 | 4°20 | 17° 7 | 16°21 | 16°23 | 4°34 | 2° 5 | M 4 |
| T 5 | 10 51 33 | 14°39'59 | 24°54 | 2°23 | 0) 53 | 27°54 | 0°55 | 16°46 | 20°42 | 4°21 | 17° 7 | 16° 6 | 16°19 | 4°41 | 2° 8 | T 5 |
| W 6 | 10 55 30 | 15°39'55 | 7 Y 6 | 1°42 | 2° 8 | 28°29 | 0°56 | 16°42 | 20°45 | 4°23 | 17° 7 | 15°53 | 16°16 | 4°47 | 2°11 | W 6 |
| T 7 | 10 59 26 | 16°39'49 | 19° 8 | 1° 7 | 3°22 | 29° 4 | 0°58 | 16°38 | 20°47 | 4°24 | 17° 7 | 15°41 | 16°13 | 4°54 | 2°14 | T 7 |
| F 8 | 11 3 23 | 17°39'40 | 18 3 | 0°39 | 4°37 | 29°40 | 1° 0 | 16°35 | 20°49 | 4°24 | 17° 8 | 15°32 | 16°10 | 5° 1 | 2°17 | F 8 |
| S 9 | 11 7 20 | 18°39'29 | 12°52 | 0°17 | 5°51 | 0 Ⅱ 15 | 1° 3 | 16°31 | 20°52 | 4°25 | 17° 8 | 15°26 | 16° 7 | 5° 7 | 2°20 | S 9 |
| S 10 | 11 11 16 | 19°39'17 | 24°39 | 0° 2 | 7° 6 | 0°50 | 1° 5 | 16°27 | 20°54 | 4°26 | 17° 8 | 15°22 | 16° 4 | 5°14 | 2°23 | S 10 |
| M11 | 11 15 13 | 20°39'02 | 6 Ⅱ 30 | 29≈53 | 8°21 | 1°26 | 1° 8 | 16°23 | 20°56 | 4°27 | 17° 8 | 15°21 | 16° 0 | 5°21 | 2°25 | M11 |
| T 12 | 11 19 9 | 21°38'44 | 18°30 | 29°D50 | 9°35 | 2° 1 | 1°11 | 16°19 | 20°58 | 4°28 | 17° 8 | 15°21 | 15°57 | 5°28 | 2°28 | T 12 |
| W13 | 11 23 6 | 22°38'25 | 09543 | 29°53 | 10°50 | 2°37 | 1°14 | 16°15 | 21° 0 | 4°29 | 17° 9 | 15°20 | 15°54 | 5°34 | 2°31 | W13 |
| T 14 | 11 27 2 11 30 59 | 23°38'03 24°37'39 | 13°15 26°12 | 0 ∺ 2 0°17 | 12° 4 13°19 | 3°12 3°48 | 1°17 1°21 | 16°11 16° 7 | 21° 3 21° 5 | 4°30 4°30 | 17° 9 17° 9 | 15°19 15°16 | 15°51 15°48 | 5°41 5°48 | 2°33 2°36 | T 14 F 15 |
| F 15 S 16 | 11 30 59 | 24°37'39 25°37'12 | $9\Omega_{36}$ | 0°17 0°37 | 13°19 14°33 | 4°23 | 1°24 | 16° 7 | 21° 3 | 4°31 | 17° 9 | 15°10 | 15°48 | 5°54 | 2°38 | S 16 |
| | | | | | | | | | | | | | - | | | |
| S 17 | 11 38 52 | 26°36'43 | 23°29 | 1° 1 | 15°48 | 4°59 | 1°28 | 15°59 | 21° 9 | 4°32 | 17°10 | 15° 2 | 15°41 | 6° 1 | 2°40 | S 17 |
| M18 | 11 42 49 | 27°36'12 | 7 m) 50 | 1°31 | 17° 2 | 5°34 | 1°32 | 15°55 | 21°10 | 4°32 | 17°10 | 14°51 | 15°38 | 6° 8 | 2°42 | M18 |
| T 19 W20 | 11 46 45 11 50 42 | 28°35'39 29°35'04 | 22°33 7 Ω 31 | 2° 4 2°42 | 18°17 19°31 | 6°10 6°46 | 1°36 1°41 | 15°50 15°46 | 21°12 21°14 | 4°33 4°34 | 17°11 17°11 | 14°40 14°29 | 15°35 15°32 | 6°14 6°21 | 2°44 2°46 | T 19 W20 |
| T 21 | 11 50 42 | 29 33 04 0 Υ 34'27 | 22°35 | 3°24 | 20°46 | 7°22 | 1°45 | 15°42 | 21°16 | 4°34 | 17°11 | 14°29 | 15°29 | 6°28 | 2°48 | T 21 |
| F 22 | 11 54 36 | 1°33'47 | 7 M 34 | 4° 9 | 20° 40 22° 0 | 7°57 | 1°50 | 15°37 | 21°18 | 4°35 | 17°12 | 14°13 | 15°25 | 6°34 | 2°50 | F 22 |
| S 23 | 12 2 31 | 2°33'06 | 22°21 | 4°58 | 23°15 | 8°33 | 1°55 | 15°33 | 21°19 | 4°35 | 17°12 | 14° 9 | 15°22 | 6°41 | 2°52 | S 23 |
| S 24 | 12 6 28 | 3°32'24 | 6 ₹ 149 | 5°50 | 24°29 | 9° 9 | 2° 0 | 15°28 | 21°21 | 4°36 | 17°13 | 14° 7 | 15°19 | 6°48 | 2°53 | S 24 |
| M25 | 12 10 24 | 3 32 24 4°31'39 | 20°57 | 6°46 | 24 29 25°44 | 9°45 | 2° 5 | 15°24 | 21°23 | 4°36 | 17°13 | 14°D 7 | 15°16 | 6°54 | 2°55 | M25 |
| T 26 | 12 14 21 | 5°30'53 | 4 3 43 | 7°44 | 26°58 | 10°21 | 2°10 | 15°19 | 21°24 | 4°36 | 17°14 | 14°R 8 | 15°13 | 7° 1 | 2°56 | T 26 |
| W27 | 12 18 18 | 6°30'05 | 18°10 | 8°45 | 28°12 | 10°56 | 2°16 | 15°15 | 21°26 | 4°37 | 17°14 | 14° 7 | 15°10 | 7° 8 | 2°58 | W27 |
| T 28 | 12 22 14 | 7°29'15 | 1≈18 | 9°48 | 29°27 | 11°32 | 2°21 | 15°10 | 21°27 | 4°37 | 17°15 | 14° 5 | 15° 6 | 7°14 | 2°59 | T 28 |
| F 29 | 12 26 11 | 8°28'23 | 14°11 | 10°54 | 0 Υ 41 | 12° 8 | 2°27 | 15° 6 | 21°28 | 4°37 | 17°16 | 14° 0 | 15° 3 | 7°21 | 3° 0 | F 29 |
| S 30 | 12 30 7 | 9°27'30 | 26°50 | 12° 3 | 1°56 | 12°44 | 2°33 | 15° 1 | 21°30 | 4°38 | 17°16 | 13°52 | 15° 0 | 7°28 | 3° 1 | S 30 |
| S 31 | 12 34 4 | 10 Y 26'34 | 9) 18 | 13) 14 | 3 Υ10 | 13 II 20 | 2939 | 14 ≏ 56 | 21 ට 31 | 4 ප 38 | 17 I 17 | 13 ×7 42 | 14 ×7 57 | 7 8 34 | 3ට 2 | S 31 |

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Greg. Calendar

APRIL 1658 GC 00:00 UT

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|------|----------|-------------------|----------------|----------------|----------------|-----------------|-------|----------------|----------------|---------------|----------------|-----------------|----------------|----------------|---------------|------|
| M 1 | 12 38 0 | 11 Y 25'37 | 21) 36 | 14) 27 | 4 Υ 24 | 13 II 56 | 29546 | 14°R52 | 21 궁 32 | 4 る 38 | 17 Ⅱ 18 | 13°R31 | 14 ₹ 54 | 7 8 41 | 3 る 3 | M 1 |
| T 2 | 12 41 57 | 12°24'38 | 3 Υ46 | 15°42 | 5°39 | 14°32 | 2°52 | 14 <u>₽</u> 47 | 21°34 | 4°38 | 17°18 | 13 × 19 | 14°51 | 7°48 | 3° 4 | T 2 |
| W 3 | 12 45 53 | 13°23'36 | 15°48 | 16°59 | 6°53 | 15° 8 | 2°59 | 14°43 | 21°35 | 4°38 | 17°19 | 13° 8 | 14°47 | 7°54 | 3° 5 | W 3 |
| T 4 | 12 49 50 | 14°22'33 | 27°43 | 18°18 | 8° 7 | 15°45 | 3° 5 | 14°38 | 21°36 | 4°38 | 17°20 | 12°58 | 14°44 | 8° 1 | 3° 6 | T 4 |
| F 5 | 12 53 46 | 15°21'28 | 9 8 33 | 19°39 | 9°22 | 16°21 | 3°12 | 14°33 | 21°37 | 4°38 | 17°20 | 12°51 | 14°41 | 8° 8 | 3° 6 | F 5 |
| S 6 | 12 57 43 | 16°20'20 | 21°21 | 21° 2 | 10°36 | 16°57 | 3°19 | 14°29 | 21°38 | 4°R38 | 17°21 | 12°46 | 14°38 | 8°14 | 3° 7 | S 6 |
| S 7 | 13 1 40 | 17°19'10 | 3耳 9 | 22°26 | 11°50 | 17°33 | 3°26 | 14°24 | 21°39 | 4°38 | 17°22 | 12°43 | 14°35 | 8°21 | 3° 7 | S 7 |
| M 8 | 13 5 36 | 18°17'59 | 15° 0 | 23°53 | 13° 4 | 18° 9 | 3°34 | 14°19 | 21°40 | 4°38 | 17°23 | 12°D43 | 14°31 | 8°28 | 3° 7 | M 8 |
| T 9 | 13 933 | 19°16'45 | 26°59 | 25°21 | 14°19 | 18°45 | 3°41 | 14°15 | 21°41 | 4°38 | 17°24 | 12°43 | 14°28 | 8°34 | 3° 7 | T 9 |
| W10 | 13 13 29 | 20°15'28 | 99511 | 26°51 | 15°33 | 19°22 | 3°49 | 14°10 | 21°42 | 4°38 | 17°24 | 12°44 | 14°25 | 8°41 | 3° 8 | W10 |
| T 11 | 13 17 26 | 21°14'10 | 21°41 | 28°22 | 16°47 | 19°58 | 3°56 | 14° 6 | 21°42 | 4°38 | 17°25 | 12°R45 | 14°22 | 8°48 | 3°R 8 | T 11 |
| F 12 | 13 21 22 | 22°12'49 | 4Ω34 | 29°56 | 18° 1 | 20°34 | 4° 4 | 14° 1 | 21°43 | 4°38 | 17°26 | 12°44 | 14°19 | 8°54 | 3° 8 | F 12 |
| S 13 | 13 25 19 | 23°11'26 | 17°53 | 1 Y 31 | 19°15 | 21°10 | 4°12 | 13°57 | 21°44 | 4°38 | 17°27 | 12°41 | 14°16 | 9° 1 | 3° 7 | S 13 |
| S 14 | 13 29 15 | 24°10'01 | 1 M p41 | 3° 7 | 20°30 | 21°47 | 4°20 | 13°52 | 21°44 | 4°37 | 17°28 | 12°37 | 14°12 | 9° 8 | 3° 7 | S 14 |
| M15 | 13 33 12 | 25° 8'33 | 15°59 | 4°46 | 21°44 | 22°23 | 4°29 | 13°48 | 21°45 | 4°37 | 17°29 | 12°31 | 14° 9 | 9°14 | 3° 7 | M15 |
| T 16 | 13 37 9 | 26° 7'04 | 0 ჲ 42 | 6°26 | 22°58 | 22°59 | 4°37 | 13°43 | 21°46 | 4°37 | 17°30 | 12°24 | 14° 6 | 9°21 | 3° 6 | T 16 |
| W17 | 13 41 5 | 27° 5'32 | 15°45 | 8° 7 | 24°12 | 23°36 | 4°45 | 13°39 | 21°46 | 4°36 | 17°31 | 12°17 | 14° 3 | 9°28 | 3° 6 | W17 |
| T 18 | 13 45 2 | 28° 3'58 | 0 M .59 | 9°51 | 25°26 | 24°12 | 4°54 | 13°34 | 21°46 | 4°36 | 17°32 | 12°11 | 14° 0 | 9°34 | 3° 5 | T 18 |
| F 19 | 13 48 58 | 29° 2'23 | 16°13 | 11°36 | 26°40 | 24°48 | 5° 3 | 13°30 | 21°47 | 4°36 | 17°33 | 12° 7 | 13°56 | 9°41 | 3° 5 | F 19 |
| S 20 | 13 52 55 | 0 8 0'46 | 1 才 17 | 13°23 | 27°54 | 25°25 | 5°12 | 13°25 | 21°47 | 4°35 | 17°34 | 12° 4 | 13°53 | 9°48 | 3° 4 | S 20 |
| S 21 | 13 56 51 | 0°59'07 | 16° 3 | 15°11 | 29° 8 | 26° 1 | 5°20 | 13°21 | 21°47 | 4°35 | 17°35 | 12°D 4 | 13°50 | 9°54 | 3° 3 | S 21 |
| M22 | 14 0 48 | 1°57'26 | 0 궁 26 | 17° 1 | 0 8 22 | 26°38 | 5°30 | 13°17 | 21°48 | 4°34 | 17°36 | 12° 5 | 13°47 | 10° 1 | 3° 2 | M22 |
| T 23 | 14 444 | 2°55'44 | 14°23 | 18°53 | 1°37 | 27°14 | 5°39 | 13°13 | 21°48 | 4°34 | 17°37 | 12° 6 | 13°44 | 10° 8 | 3° 1 | T 23 |
| W24 | 14 8 41 | 3°54'01 | 27°55 | 20°47 | 2°51 | 27°50 | 5°48 | 13° 8 | 21°48 | 4°33 | 17°38 | 12°R 7 | 13°41 | 10°14 | 3° 0 | W24 |
| T 25 | 14 12 38 | 4°52'16 | 11≈ 4 | 22°42 | 4° 5 | 28°27 | 5°57 | 13° 4 | 21°48 | 4°32 | 17°39 | 12° 7 | 13°37 | 10°21 | 2°59 | T 25 |
| F 26 | 14 16 34 | 5°50'29 | 23°53 | 24°39 | 5°19 | 29° 3 | 6° 7 | 13° 0 | 21°R48 | 4°32 | 17°40 | 12° 6 | 13°34 | 10°28 | 2°58 | F 26 |
| S 27 | 14 20 31 | 6°48'41 | 6 ∺ 25 | 26°38 | 6°33 | 29°40 | 6°16 | 12°56 | 21°48 | 4°31 | 17°41 | 12° 3 | 13°31 | 10°34 | 2°56 | S 27 |
| S 28 | 14 24 27 | 7°46'51 | 18°43 | 28°38 | 7°47 | 09୍ତ16 | 6°26 | 12°52 | 21°48 | 4°31 | 17°42 | 11°58 | 13°28 | 10°41 | 2°55 | S 28 |
| M29 | 14 28 24 | 8°45'00 | 0 Υ 50 | 0840 | 9° 1 | 0°53 | 6°36 | 12°48 | 21°48 | 4°30 | 17°43 | 11°53 | 13°25 | 10°48 | 2°53 | M29 |
| T 30 | 14 32 20 | 9 8 43'07 | 12 Y 50 | 2 8 43 | 10 8 15 | 19529 | 69546 | 12 ≏ 44 | 21 る 48 | 4 る 29 | 17 Ⅱ 44 | 11 ×7 47 | 13 × 22 | 10 8 54 | 2 ප 52 | T 30 |

Delta T = 37.59 sec

MAY 1658 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Ŷ | ď | 4 | ħ |)f(| 卉 | Р | ß | Ω | ţ | ę, | Day |
|------|----------|------------------|----------------|---------------|----------------|--------|-------|----------------|----------------|---------------|----------------|-----------------|----------------|-------|---------------|------|
| W 1 | 14 36 17 | 10841'13 | 24 Y 43 | 4 8 48 | 11829 | 295 6 | 6956 | 12°R41 | 21°R47 | 4°R28 | 17 Ⅱ 45 | 11°R41 | 13 × 18 | 118 1 | 2°R50 | W 1 |
| T 2 | 14 40 13 | 11°39'17 | 6 8 33 | 6°55 | 12°43 | 2°42 | 7° 6 | 12 ≏ 37 | 21 중 47 | 4 궁 28 | 17°47 | 11 × 737 | 13°15 | 11° 8 | 2 る 48 | T 2 |
| F 3 | 14 44 10 | 12°37'20 | 18°21 | 9° 2 | 13°57 | 3°19 | 7°16 | 12°33 | 21°47 | 4°27 | 17°48 | 11°33 | 13°12 | 11°14 | 2°47 | F 3 |
| S 4 | 14 48 7 | 13°35'21 | 0 I I10 | 11°11 | 15°10 | 3°56 | 7°26 | 12°29 | 21°46 | 4°26 | 17°49 | 11°31 | 13° 9 | 11°21 | 2°45 | S 4 |
| S 5 | 14 52 3 | 14°33'20 | 12° 1 | 13°20 | 16°24 | 4°32 | 7°37 | 12°26 | 21°46 | 4°25 | 17°50 | 11°D30 | 13° 6 | 11°28 | 2°43 | S 5 |
| M 6 | 14 56 0 | 15°31'18 | 23°57 | 15°30 | 17°38 | 5° 9 | 7°47 | 12°22 | 21°45 | 4°24 | 17°51 | 11°31 | 13° 2 | 11°34 | 2°41 | M 6 |
| T 7 | 14 59 56 | 16°29'14 | 6 95 2 | 17°41 | 18°52 | 5°45 | 7°58 | 12°19 | 21°45 | 4°23 | 17°53 | 11°32 | 12°59 | 11°41 | 2°38 | T 7 |
| W 8 | 15 3 53 | 17°27'08 | 18°18 | 19°52 | 20° 6 | 6°22 | 8° 9 | 12°16 | 21°44 | 4°22 | 17°54 | 11°34 | 12°56 | 11°48 | 2°36 | W 8 |
| T 9 | 15 7 49 | 18°25'00 | $0\Omega 51$ | 22° 3 | 21°20 | 6°59 | 8°19 | 12°12 | 21°44 | 4°21 | 17°55 | 11°36 | 12°53 | 11°54 | 2°34 | T 9 |
| F 10 | 15 11 46 | 19°22'51 | 13°42 | 24°13 | 22°34 | 7°35 | 8°30 | 12° 9 | 21°43 | 4°20 | 17°56 | 11°R36 | 12°50 | 12° 1 | 2°32 | F 10 |
| S 11 | 15 15 42 | 20°20'40 | 26°57 | 26°23 | 23°48 | 8°12 | 8°41 | 12° 6 | 21°42 | 4°19 | 17°58 | 11°36 | 12°47 | 12° 8 | 2°29 | S 11 |
| S 12 | 15 19 39 | 21°18'27 | 10 m 37 | 28°32 | 25° 2 | 8°49 | 8°52 | 12° 3 | 21°42 | 4°18 | 17°59 | 11°35 | 12°43 | 12°14 | 2°27 | S 12 |
| M13 | 15 23 36 | 22°16'12 | 24°44 | 0 Ⅱ 40 | 26°15 | 9°25 | 9° 3 | 12° 0 | 21°41 | 4°17 | 18° 0 | 11°34 | 12°40 | 12°21 | 2°24 | M13 |
| T 14 | 15 27 32 | 23°13'56 | 9 ₽ 16 | 2°46 | 27°29 | 10° 2 | 9°14 | 11°57 | 21°40 | 4°16 | 18° 1 | 11°31 | 12°37 | 12°28 | 2°22 | T 14 |
| W15 | 15 31 29 | 24°11'38 | 24° 8 | 4°51 | 28°43 | 10°39 | 9°25 | 11°54 | 21°39 | 4°15 | 18° 3 | 11°29 | 12°34 | 12°34 | 2°19 | W15 |
| T 16 | 15 35 25 | 25° 9'18 | 9 ™ 15 | 6°54 | 29°57 | 11°16 | 9°37 | 11°51 | 21°38 | 4°14 | 18° 4 | 11°27 | 12°31 | 12°41 | 2°16 | T 16 |
| F 17 | 15 39 22 | 26° 6'58 | 24°27 | 8°55 | 1 II 10 | 11°52 | 9°48 | 11°49 | 21°37 | 4°12 | 18° 5 | 11°26 | 12°28 | 12°48 | 2°13 | F 17 |
| S 18 | 15 43 18 | 27° 4'36 | 9 ∡ ³35 | 10°53 | 2°24 | 12°29 | 10° 0 | 11°46 | 21°36 | 4°11 | 18° 7 | 11°D26 | 12°24 | 12°54 | 2°11 | S 18 |
| S 19 | 15 47 15 | 28° 2'13 | 24°29 | 12°49 | 3°38 | 13° 6 | 10°11 | 11°44 | 21°35 | 4°10 | 18° 8 | 11°26 | 12°21 | 13° 1 | 2° 8 | S 19 |
| M20 | 15 51 11 | 28°59'48 | 9 ට 3 | 14°43 | 4°52 | 13°43 | 10°23 | 11°41 | 21°34 | 4° 9 | 18° 9 | 11°27 | 12°18 | 13° 8 | 2° 5 | M20 |
| T 21 | 15 55 8 | 29°57'23 | 23°11 | 16°34 | 6° 6 | 14°19 | 10°34 | 11°39 | 21°33 | 4° 8 | 18°11 | 11°28 | 12°15 | 13°14 | 2° 2 | T 21 |
| W22 | 15 59 5 | 0 Ⅲ 54'57 | 6≈53 | 18°22 | 7°19 | 14°56 | 10°46 | 11°37 | 21°31 | 4° 6 | 18°12 | 11°28 | 12°12 | 13°21 | 1°59 | W22 |
| T 23 | 16 3 1 | 1°52'29 | 20° 9 | 20° 7 | 8°33 | 15°33 | 10°58 | 11°35 | 21°30 | 4° 5 | 18°13 | 11°29 | 12° 8 | 13°28 | 1°55 | T 23 |
| F 24 | 16 658 | 2°50'01 | 3 ∺ 1 | 21°50 | 9°47 | 16°10 | 11°10 | 11°33 | 21°29 | 4° 4 | 18°15 | 11°R29 | 12° 5 | 13°34 | 1°52 | F 24 |
| S 25 | 16 10 54 | 3°47'32 | 15°32 | 23°30 | 11° 0 | 16°46 | 11°21 | 11°31 | 21°28 | 4° 2 | 18°16 | 11°29 | 12° 2 | 13°41 | 1°49 | S 25 |
| S 26 | 16 14 51 | 4°45'03 | 27°47 | 25° 6 | 12°14 | 17°23 | 11°33 | 11°29 | 21°26 | 4° 1 | 18°18 | 11°29 | 11°59 | 13°48 | 1°46 | S 26 |
| M27 | 16 18 47 | 5°42'32 | 9 Υ 50 | 26°40 | 13°28 | 18° 0 | 11°45 | 11°27 | 21°25 | 4° 0 | 18°19 | 11°28 | 11°56 | 13°54 | 1°42 | M27 |
| T 28 | 16 22 44 | 6°40'01 | 21°44 | 28°11 | 14°41 | 18°37 | 11°58 | 11°25 | 21°23 | 3°58 | 18°20 | 11°27 | 11°53 | 14° 1 | 1°39 | T 28 |
| W29 | 16 26 40 | 7°37'28 | 3 8 33 | 29°39 | 15°55 | 19°14 | 12°10 | 11°24 | 21°22 | 3°57 | 18°22 | 11°27 | 11°49 | 14° 8 | 1°36 | W29 |
| T 30 | 16 30 37 | 8°34'56 | 15°21 | 199 4 | 17° 9 | 19°51 | 12°22 | 11°22 | 2 <u>1</u> °20 | <u>3°56</u> | 18°23 | 11°26 | 11°46 | 14°14 | <u>1°32</u> | T 30 |
| F 31 | 16 34 34 | 9∏32'22 | 27810 | 29525 | 18 Ⅱ 23 | 209528 | 12934 | 11 ≏ 21 | 21 궁 19 | 3 ⋜ 54 | 18 Ⅱ 25 | 11 ₹ 26 | 11 ~ 43 | 14821 | 1 る 29 | F 31 |

Delta T = 37.53 sec

Greg. Calendar

| JUNE 1658 GC | 00:00 UT |
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| Day | Sid.t | 0 | D | Ϋ́ | P | ð | 4 | ħ |)Å(| 卉 | Р | n | v | ţ | ę, | Day |
|------|----------|-------------------|-----------------|--------|-------|---------------|--------|----------------|----------------|---------------|----------------|-----------------|-----------------|----------------|-----------------|------|
| S 1 | 16 38 30 | 10 Ⅱ 29'47 | 9耳 3 | 39544 | 19耳36 | 2195 5 | 129546 | 11°R20 | 21°R17 | 3°R53 | 18 Ⅱ 26 | 11°D26 | 11 ×7 40 | 14 8 28 | 1°R25 | S 1 |
| S 2 | 16 42 27 | 11°27'12 | 21° 1 | 4°59 | 20°50 | 21°41 | 12°59 | 11 ≏ 18 | 21 궁 16 | 3 ප 51 | 18°27 | 11°R26 | 11°37 | 14°34 | 1 ට 21 | S 2 |
| M 3 | 16 46 23 | 12°24'35 | 3 95 8 | 6°12 | 22° 4 | 22°18 | 13°11 | 11°17 | 21°14 | 3°50 | 18°29 | 11 ∡ 126 | 11°34 | 14°41 | 1°18 | M 3 |
| T 4 | 16 50 20 | 13°21'58 | 15°24 | 7°20 | 23°17 | 22°55 | 13°24 | 11°16 | 21°12 | 3°48 | 18°30 | 11°26 | 11°30 | 14°48 | 1°14 | T 4 |
| W 5 | 16 54 16 | 14°19'20 | 27°53 | 8°26 | 24°31 | 23°32 | 13°36 | 11°15 | 21°10 | 3°47 | 18°32 | 11°26 | 11°27 | 14°54 | 1°10 | W 5 |
| T 6 | 16 58 13 | 15°16'41 | 10 Ω 35 | 9°28 | 25°44 | 24° 9 | 13°49 | 11°15 | 21° 9 | 3°45 | 18°33 | 11°25 | 11°24 | 15° 1 | 1° 7 | T 6 |
| F 7 | 17 2 9 | 16°14'01 | 23°33 | 10°27 | 26°58 | 24°46 | 14° 1 | 11°14 | 21° 7 | 3°44 | 18°34 | 11°25 | 11°21 | 15° 8 | 1° 3 | F 7 |
| S 8 | 17 6 6 | 17°11'20 | 6 m 50 | 11°22 | 28°12 | 25°23 | 14°14 | 11°13 | 21° 5 | 3°42 | 18°36 | 11°24 | 11°18 | 15°14 | 0°59 | S 8 |
| S 9 | 17 10 3 | 18° 8'38 | 20°26 | 12°14 | 29°25 | 26° 0 | 14°26 | 11°13 | 21° 3 | 3°41 | 18°37 | 11°D24 | 11°14 | 15°21 | 0°55 | S 9 |
| M10 | 17 13 59 | 19° 5'55 | 4 ₾ 23 | 13° 2 | 0ഇ39 | 26°37 | 14°39 | 11°12 | 21° 1 | 3°39 | 18°39 | 11°25 | 11°11 | 15°28 | 0°52 | M10 |
| T 11 | 17 17 56 | 20° 3'11 | 18°40 | 13°46 | 1°52 | 27°14 | 14°52 | 11°12 | 20°59 | 3°38 | 18°40 | 11°25 | 11° 8 | 15°34 | 0°48 | T 11 |
| W12 | 17 21 52 | 21° 0'26 | 3 M 15 | 14°26 | 3° 6 | 27°51 | 15° 5 | 11°12 | 20°57 | 3°36 | 18°41 | 11°26 | 11° 5 | 15°41 | 0°44 | W12 |
| T 13 | 17 25 49 | 21°57'40 | 18° 3 | 15° 1 | 4°19 | 28°28 | 15°18 | 11°12 | 20°55 | 3°34 | 18°43 | 11°27 | 11° 2 | 15°48 | 0°40 | T 13 |
| F 14 | 17 29 45 | 22°54'54 | 2 ₹ 58 | 15°33 | 5°33 | 29° 5 | 15°30 | 11°D12 | 20°53 | 3°33 | 18°44 | 11°27 | 10°59 | 15°54 | 0°36 | F 14 |
| S 15 | 17 33 42 | 23°52'08 | 17°54 | 16° 1 | 6°47 | 29°42 | 15°43 | 11°12 | 20°51 | 3°31 | 18°46 | 11°R27 | 10°55 | 16° 1 | 0°32 | S 15 |
| S 16 | 17 37 38 | 24°49'21 | 2 ප් 41 | 16°24 | 8° 0 | 0 Ω 19 | 15°56 | 11°12 | 20°49 | 3°30 | 18°47 | 11°27 | 10°52 | 16° 8 | 0°28 | S 16 |
| M17 | 17 41 35 | 25°46'33 | 17°14 | 16°43 | 9°14 | 0°57 | 16° 9 | 11°12 | 20°47 | 3°28 | 18°48 | 11°25 | 10°49 | 16°14 | 0°24 | M17 |
| T 18 | 17 45 32 | 26°43'45 | 1≈26 | 16°57 | 10°27 | 1°34 | 16°22 | 11°13 | 20°45 | 3°26 | 18°50 | 11°24 | 10°46 | 16°21 | 0°20 | T 18 |
| W19 | 17 49 28 | 27°40'57 | 15°13 | 17° 7 | 11°41 | 2°11 | 16°35 | 11°13 | 20°43 | 3°25 | 18°51 | 11°21 | 10°43 | 16°28 | 0°17 | W19 |
| T 20 | 17 53 25 | 28°38'09 | 28°34 | 17°12 | 12°54 | 2°48 | 16°48 | 11°14 | 20°41 | 3°23 | 18°53 | 11°20 | 10°40 | 16°34 | 0°13 | T 20 |
| F 21 | 17 57 21 | 29°35'21 | 11) (30 | 17°R12 | 14° 8 | 3°25 | 17° 1 | 11°14 | 20°39 | 3°22 | 18°54 | 11°18 | 10°36 | 16°41 | 0° 9 | F 21 |
| S 22 | 18 1 18 | 0932'32 | 24° 5 | 17° 8 | 15°21 | 4° 2 | 17°14 | 11°15 | 20°36 | 3°20 | 18°55 | 11°17 | 10°33 | 16°48 | 0° 5 | S 22 |
| S 23 | 18 5 14 | 1°29'44 | 6 Υ 21 | 17° 0 | 16°35 | 4°39 | 17°27 | 11°16 | 20°34 | 3°18 | 18°57 | 11°D17 | 10°30 | 16°54 | 0° 1 | S 23 |
| M24 | 18 9 11 | 2°26'56 | 18°23 | 16°47 | 17°48 | 5°16 | 17°41 | 11°17 | 20°32 | 3°17 | 18°58 | 11°18 | 10°27 | 17° 1 | 29 × 757 | M24 |
| T 25 | 18 13 7 | 3°24'08 | 0816 | 16°30 | 19° 1 | 5°54 | 17°54 | 11°18 | 20°30 | 3°15 | 19° 0 | 11°19 | 10°24 | 17° 8 | 29°53 | T 25 |
| W26 | 18 17 4 | 4°21'20 | 12° 4 | 16° 9 | 20°15 | 6°31 | 18° 7 | 11°19 | 20°27 | 3°13 | 19° 1 | 11°21 | 10°20 | 17°14 | 29°49 | W26 |
| T 27 | 18 21 1 | 5°18'33 | 23°53 | 15°44 | 21°28 | 7° 8 | 18°20 | 11°21 | 20°25 | 3°12 | 19° 2 | 11°22 | 10°17 | 17°21 | 29°45 | T 27 |
| F 28 | 18 24 57 | 6°15'45 | 5 Ⅱ 45 | 15°16 | 22°42 | 7°45 | 18°33 | 11°22 | 20°23 | 3°10 | 19° 4 | 11°R23 | 10°14 | 17°27 | 29°41 | F 28 |
| S 29 | 18 28 54 | 7°12'58 | 17°44 | 14°45 | 23°55 | 8°23 | 18°47 | 11°23 | 20°20 | 3° 9 | 19° 5 | 11°23 | 10°11 | 17°34 | 29°37 | S 29 |
| S 30 | 18 32 50 | 8910'10 | 29耳53 | 149511 | 259 9 | 9Ω 0 | 1995 0 | 11 ≏ 25 | 20 궁 18 | 3 ට 7 | 19耳 6 | 11 × 22 | 10 才 8 | 17 8 41 | 29 × 33 | S 30 |

Delta T = 37.47 sec

JULY 1658 GC 00:00 UT

| Day | Sid.t | 0 | 9 | φ | Q+ | ♂ | 4 | ħ |) { | ¥ | Р | ß | သ | Ç | ę, | Day |
|------|----------|------------------|-----------------|--------|---------------|---------------------|--------|----------------|----------------|---------------|----------------|----------------|---------------|-------|-----------------------------|------|
| M 1 | 18 36 47 | 995 7'23 | 129513 | 13°R36 | 269522 | 9 Ω 37 | 199513 | 11 ≏ 27 | 20°R16 | 3°R 5 | 19耳 8 | 11°R19 | 10 × 5 | 17847 | 29°R30 | M 1 |
| T 2 | 18 40 43 | 10° 4'36 | 24°47 | 129559 | 27°36 | 10°14 | 19°26 | 11°28 | 20 궁 13 | 3 ප 4 | 19° 9 | 11 × 16 | 10° 1 | 17°54 | 29 × ⁷ 26 | T 2 |
| W 3 | 18 44 40 | 11° 1'49 | $7\Omega_{33}$ | 12°21 | 28°49 | 10°52 | 19°40 | 11°30 | 20°11 | 3° 2 | 19°10 | 11°11 | 9°58 | 18° 1 | 29°22 | W 3 |
| T 4 | 18 48 37 | 11°59'01 | 20°34 | 11°43 | ON 2 | 11°29 | 19°53 | 11°32 | 20° 9 | 3° 1 | 19°12 | 11° 6 | 9°55 | 18° 7 | 29°18 | T 4 |
| F 5 | 18 52 33 | 12°56'14 | 3 m 48 | 11° 6 | 1°16 | 12° 6 | 20° 6 | 11°34 | 20° 6 | 2°59 | 19°13 | 11° 2 | 9°52 | 18°14 | 29°14 | F 5 |
| S 6 | 18 56 30 | 13°53'27 | 17°16 | 10°30 | 2°29 | 12°44 | 20°20 | 11°36 | 20° 4 | 2°57 | 19°14 | 10°58 | 9°49 | 18°21 | 29°11 | S 6 |
| S 7 | 19 0 26 | 14°50'40 | 0 ≏ 57 | 9°55 | 3°42 | 13°21 | 20°33 | 11°39 | 20° 1 | 2°56 | 19°16 | 10°56 | 9°45 | 18°27 | 29° 7 | S 7 |
| M 8 | 19 4 23 | 15°47'52 | 14°51 | 9°23 | 4°56 | 13°58 | 20°46 | 11°41 | 19°59 | 2°54 | 19°17 | 10°D55 | 9°42 | 18°34 | 29° 3 | M 8 |
| T 9 | 19 8 19 | 16°45'05 | 28°58 | 8°54 | 6° 9 | 14°36 | 21° 0 | 11°43 | 19°57 | 2°53 | 19°18 | 10°55 | 9°39 | 18°41 | 29° 0 | T 9 |
| W10 | 19 12 16 | 17°42'17 | 13 M .15 | 8°29 | 7°22 | 15°13 | 21°13 | 11°46 | 19°54 | 2°51 | 19°20 | 10°57 | 9°36 | 18°47 | 28°56 | W10 |
| T 11 | 19 16 12 | 18°39'30 | 27°42 | 8° 7 | 8°36 | 15°51 | 21°27 | 11°49 | 19°52 | 2°50 | 19°21 | 10°58 | 9°33 | 18°54 | 28°52 | T 11 |
| F 12 | 19 20 9 | 19°36'43 | 12 ,7 14 | 7°50 | 9°49 | 16°28 | 21°40 | 11°51 | 19°49 | 2°48 | 19°22 | 10°R59 | 9°30 | 19° 1 | 28°49 | F 12 |
| S 13 | 19 24 6 | 20°33'57 | 26°46 | 7°38 | 11° 2 | 17° 6 | 21°53 | 11°54 | 19°47 | 2°47 | 19°23 | 10°58 | 9°26 | 19° 7 | 28°45 | S 13 |
| S 14 | 19 28 2 | 21°31'10 | 11 る 15 | 7°31 | 12°16 | 17°43 | 22° 7 | 11°57 | 19°45 | 2°45 | 19°25 | 10°55 | 9°23 | 19°14 | 28°42 | S 14 |
| M15 | 19 31 59 | 22°28'24 | 25°33 | 7°D29 | 13°29 | 18°21 | 22°20 | 12° 0 | 19°42 | 2°43 | 19°26 | 10°50 | 9°20 | 19°21 | 28°38 | M15 |
| T 16 | 19 35 55 | 23°25'39 | 9≈36 | 7°33 | 14°42 | 18°58 | 22°33 | 12° 3 | 19°40 | 2°42 | 19°27 | 10°44 | 9°17 | 19°27 | 28°35 | T 16 |
| W17 | 19 39 52 | 24°22'54 | 23°18 | 7°42 | 15°55 | 19°36 | 22°47 | 12° 6 | 19°37 | 2°41 | 19°28 | 10°37 | 9°14 | 19°34 | 28°32 | W17 |
| T 18 | 19 43 48 | 25°20'10 | 6 ∺ 38 | 7°58 | 17° 8 | 20°13 | 23° 0 | 12° 9 | 19°35 | 2°39 | 19°29 | 10°30 | 9°11 | 19°41 | 28°28 | T 18 |
| F 19 | 19 47 45 | 26°17'26 | 19°35 | 8°19 | 18°22 | 20°51 | 23°14 | 12°13 | 19°33 | 2°38 | 19°31 | 10°24 | 9° 7 | 19°47 | 28°25 | F 19 |
| S 20 | 19 51 41 | 27°14'44 | 2 Υ 11 | 8°46 | 19°35 | 21°28 | 23°27 | 12°16 | 19°30 | 2°36 | 19°32 | 10°19 | 9° 4 | 19°54 | 28°22 | S 20 |
| S 21 | 19 55 38 | 28°12'02 | 14°28 | 9°18 | 20°48 | 22° 6 | 23°40 | 12°20 | 19°28 | 2°35 | 19°33 | 10°16 | 9° 1 | 20° 1 | 28°19 | S 21 |
| M22 | 19 59 35 | 29° 9'21 | 26°31 | 9°57 | 22° 1 | 22°43 | 23°54 | 12°23 | 19°25 | 2°33 | 19°34 | 10°D15 | 8°58 | 20° 7 | 28°16 | M22 |
| T 23 | 20 3 31 | 0 ん 6'42 | 8 8 24 | 10°42 | 23°14 | 23°21 | 24° 7 | 12°27 | 19°23 | 2°32 | 19°35 | 10°16 | 8°55 | 20°14 | 28°13 | T 23 |
| W24 | 20 7 28 | 1° 4'03 | 20°13 | 11°32 | 24°27 | 23°59 | 24°20 | 12°31 | 19°21 | 2°31 | 19°36 | 10°17 | 8°51 | 20°21 | 28°10 | W24 |
| T 25 | 20 11 24 | 2° 1'26 | 2 II 3 | 12°28 | 25°41 | 24°36 | 24°34 | 12°34 | 19°18 | 2°29 | 19°37 | 10°18 | 8°48 | 20°27 | 28° 7 | T 25 |
| F 26 | 20 15 21 | 2°58'49 | 13°58 | 13°30 | 26°54 | 25°14 | 24°47 | 12°38 | 19°16 | 2°28 | 19°38 | 10°R18 | 8°45 | 20°34 | 28° 4 | F 26 |
| S 27 | 20 19 17 | 3°56'14 | 26° 3 | 14°37 | 28° 7 | 25°52 | 25° 0 | 12°42 | 19°14 | 2°26 | 19°40 | 10°17 | 8°42 | 20°40 | 28° 1 | S 27 |
| S 28 | 20 23 14 | 4°53'40 | 89522 | 15°50 | 29°20 | 26°30 | 25°13 | 12°46 | 19°11 | 2°25 | 19°41 | 10°13 | 8°39 | 20°47 | 27°58 | S 28 |
| M29 | 20 27 10 | 5°51'06 | 20°57 | 17° 8 | 0 m 33 | 27° 7 | 25°27 | 12°50 | 19° 9 | 2°24 | 19°42 | 10° 7 | 8°36 | 20°54 | 27°56 | M29 |
| T 30 | 20 31 7 | 6°48'34 | 3 Ω 49 | 18°30 | 1°46 | 27°45 | 25°40 | 12°55 | 19° 7 | 2°23 | 19°43 | 9°59 | 8°32 | 21° 0 | 27°53 | T 30 |
| W31 | 20 35 4 | 7 Ω 46′03 | $16\Omega58$ | 19958 | 2 m 59 | 28 \Omega 23 | 25953 | 12 ≏ 59 | 19 る 5 | 2 ප 21 | 19 Ⅱ 44 | 9 ∡ 750 | 8 ₹ 29 | 218 7 | 27 × 751 | W31 |

Delta T = 37.42 sec Greg.

Greg. Calendar

| AUGUST 1658 GC | 00:00 UT |
|----------------|----------|
| AUGUS1 1030 GC | 00.00 01 |

| Day | Sid.t | 0 | 9 | ğ | Q- | ঠ | 4 | ħ | ኊ | ¥ | Р | Ç | ಬ | Ç | o k | Day |
|------|----------|------------------|----------------|----------------|----------------|-----------------|--------------|----------------|---------------|---------------|----------------|---------------|----------------|----------------|-----------------|------|
| T 1 | 20 39 0 | 8 Ω 43'32 | 0 Mp 22 | 219530 | 4 Mp 12 | 29Ω 1 | 2695 6 | 13 ₾ 3 | 19°R 2 | 2°R20 | 19 Ⅱ 45 | 9°R40 | 8 ∡ 726 | 21814 | 27°R48 | T 1 |
| F 2 | 20 42 57 | 9°41'03 | 13°59 | 23° 7 | 5°25 | 29°39 | 26°20 | 13° 8 | 19 る 0 | 2 る 19 | 19°46 | 9 ₹ 31 | 8°23 | 21°20 | 27 ×7 46 | F 2 |
| S 3 | 20 46 53 | 10°38'34 | 27°48 | 24°48 | 6°38 | 0 m)17 | 26°33 | 13°12 | 18°58 | 2°18 | 19°47 | 9°23 | 8°20 | 21°27 | 27°43 | S 3 |
| S 4 | 20 50 50 | 11°36'07 | 11 ≏ 44 | 26°32 | 7°51 | 0°54 | 26°46 | 13°17 | 18°56 | 2°17 | 19°48 | 9°17 | 8°17 | 21°34 | 27°41 | S 4 |
| M 5 | 20 54 46 | 12°33'40 | 25°46 | 28°20 | 9° 4 | 1°32 | 26°59 | 13°22 | 18°54 | 2°15 | 19°48 | 9°14 | 8°13 | 21°40 | 27°39 | M 5 |
| T 6 | 20 58 43 | 13°31'14 | 9 M .51 | 0Ω10 | 10°17 | 2°10 | 27°12 | 13°26 | 18°52 | 2°14 | 19°49 | 9°D13 | 8°10 | 21°47 | 27°37 | T 6 |
| W 7 | 21 2 39 | 14°28'49 | 24° 0 | 2° 4 | 11°30 | 2°48 | 27°25 | 13°31 | 18°49 | 2°13 | 19°50 | 9°13 | 8° 7 | 21°54 | 27°35 | W 7 |
| T 8 | 21 6 36 | 15°26'25 | 8 × 10 | 4° 0 | 12°43 | 3°26 | 27°38 | 13°36 | 18°47 | 2°12 | 19°51 | 9°R13 | 8° 4 | 22° 0 | 27°33 | T 8 |
| F 9 | 21 10 33 | 16°24'01 | 22°19 | 5°57 | 13°55 | 4° 4 | 27°51 | 13°41 | 18°45 | 2°11 | 19°52 | 9°13 | 8° 1 | 22° 7 | 27°31 | F 9 |
| S 10 | 21 14 29 | 17°21'39 | 6 ප 27 | 7°56 | 15° 8 | 4°42 | 28° 4 | 13°46 | 18°43 | 2°10 | 19°53 | 9°10 | 7°57 | 22°14 | 27°29 | S 10 |
| S 11 | 21 18 26 | 18°19'18 | 20°30 | 9°56 | 16°21 | 5°20 | 28°17 | 13°51 | 18°41 | 2° 9 | 19°54 | 9° 5 | 7°54 | 22°20 | 27°27 | S 11 |
| M12 | 21 22 22 | 19°16'58 | 4≈25 | 11°57 | 17°34 | 5°58 | 28°30 | 13°56 | 18°39 | 2° 8 | 19°55 | 8°57 | 7°51 | 22°27 | 27°25 | M12 |
| T 13 | 21 26 19 | 20°14'39 | 18° 9 | 13°58 | 18°46 | 6°36 | 28°43 | 14° 1 | 18°37 | 2° 7 | 19°55 | 8°47 | 7°48 | 22°34 | 27°24 | T 13 |
| W14 | 21 30 15 | 21°12'22 | 1) 36 | 16° 0 | 19°59 | 7°14 | 28°56 | 14° 7 | 18°36 | 2° 6 | 19°56 | 8°36 | 7°45 | 22°40 | 27°22 | W14 |
| T 15 | 21 34 12 | 22°10'06 | 14°46 | 18° 1 | 21°12 | 7°53 | 29° 8 | 14°12 | 18°34 | 2° 5 | 19°57 | 8°24 | 7°42 | 22°47 | 27°21 | T 15 |
| F 16 | 21 38 8 | 23° 7'51 | 27°37 | 20° 2 | 22°25 | 8°31 | 29°21 | 14°17 | 18°32 | 2° 4 | 19°58 | 8°13 | 7°38 | 22°54 | 27°20 | F 16 |
| S 17 | 21 42 5 | 24° 5'38 | 10 Y 9 | 22° 3 | 23°37 | 9° 9 | 29°34 | 14°23 | 18°30 | 2° 4 | 19°58 | 8° 4 | 7°35 | 23° 0 | 27°18 | S 17 |
| S 18 | 21 46 2 | 25° 3'27 | 22°24 | 24° 3 | 24°50 | 9°47 | 29°47 | 14°28 | 18°28 | 2° 3 | 19°59 | 7°58 | 7°32 | 23° 7 | 27°17 | S 18 |
| M19 | 21 49 58 | 26° 1'17 | 4 8 26 | 26° 2 | 26° 2 | 10°25 | 29°59 | 14°34 | 18°26 | 2° 2 | 20° 0 | 7°54 | 7°29 | 23°13 | 27°16 | M19 |
| T 20 | 21 53 55 | 26°59'09 | 16°18 | 28° 0 | 27°15 | 11° 3 | 0Ω 12 | 14°40 | 18°25 | 2° 1 | 20° 0 | 7°52 | 7°26 | 23°20 | 27°15 | T 20 |
| W21 | 21 57 51 | 27°57'03 | 28° 7 | 29°57 | 28°27 | 11°42 | 0°24 | 14°45 | 18°23 | 2° 0 | 20° 1 | 7°D52 | 7°23 | 23°27 | 27°14 | W21 |
| T 22 | 22 1 48 | 28°54'59 | 9 Ⅱ 57 | 1 m 53 | 29°40 | 12°20 | 0°37 | 14°51 | 18°21 | 2° 0 | 20° 2 | 7°R52 | 7°19 | 23°33 | 27°13 | T 22 |
| F 23 | 22 5 44 | 29°52'57 | 21°53 | 3°48 | 0 ჲ 52 | 12°58 | 0°49 | 14°57 | 18°20 | 1°59 | 20° 2 | 7°51 | 7°16 | 23°40 | 27°12 | F 23 |
| S 24 | 22 9 41 | 0 m 50'56 | 499 2 | 5°41 | 2° 5 | 13°37 | 1° 2 | 15° 3 | 18°18 | 1°58 | 20° 3 | 7°49 | 7°13 | 23°47 | 27°11 | S 24 |
| S 25 | 22 13 37 | 1°48'58 | 16°28 | 7°34 | 3°17 | 14°15 | 1°14 | 15° 9 | 18°17 | 1°58 | 20° 3 | 7°44 | 7°10 | 23°53 | 27°11 | S 25 |
| M26 | 22 17 34 | 2°47'01 | 29°13 | 9°25 | 4°30 | 14°53 | 1°26 | 15°15 | 18°15 | 1°57 | 20° 4 | 7°37 | 7° 7 | 24° 0 | 27°10 | M26 |
| T 27 | 22 21 31 | 3°45'06 | $12\Omega 19$ | 11°15 | 5°42 | 15°32 | 1°39 | 15°21 | 18°14 | 1°57 | 20° 5 | 7°27 | 7° 3 | 24° 7 | 27°10 | T 27 |
| W28 | 22 25 27 | 4°43'13 | 25°48 | 13° 4 | 6°55 | 16°10 | 1°51 | 15°27 | 18°12 | 1°56 | 20° 5 | 7°16 | 7° 0 | 24°13 | 27° 9 | W28 |
| T 29 | 22 29 24 | 5°41'21 | 9 m 36 | 14°51 | 8° 7 | 16°49 | 2° 3 | 15°33 | 18°11 | 1°56 | 20° 6 | 7° 3 | 6°57 | 24°20 | 27° 9 | T 29 |
| F 30 | 22 33 20 | 6°39'31 | 23°39 | 16°37 | 9°19 | 17°27 | 2°15 | 15°39 | 18° 9 | 1°55 | 20° 6 | 6°52 | 6°54 | 24°27 | 27° 9 | F 30 |
| S 31 | 22 37 17 | 7 m 37'43 | 7 ≙ 53 | 18 m 22 | 10 ≏ 32 | 18 M) 6 | 2Ω 27 | 15 ≏ 45 | 18 る 8 | 1 ろ 55 | 20耳 6 | 6 ₹ 42 | 6 ₹ 51 | 24 8 33 | 27 ×7 9 | S 31 |

Delta T = 37.36 sec

SEPTEMBER 1658 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q. | ð | 4 | ħ |)Å(| Ħ, | В | ß | ಬ | Ç | ę, | Day |
|------|----------|------------------|----------------|----------------|----------------|-----------------|---------------|----------------|----------------|---------------|-----------------|---------------|---------------|----------------|-----------------|------|
| S 1 | 22 41 13 | 8 Mg 35'56 | 22 ₾ 13 | 20Mp 6 | 11 ≏ 44 | 18 M /44 | 2 Ω 39 | 15 ≏ 52 | 18°R 7 | 1°R54 | 20耳 7 | 6°R34 | 6 ₹ 48 | 24840 | 27°D 9 | S 1 |
| M 2 | 22 45 10 | 9°34'11 | 6 M .33 | 21°49 | 12°56 | 19°23 | 2°51 | 15°58 | 18 궁 6 | 1 る 54 | 20° 7 | 6 ₹ 29 | 6°44 | 24°47 | 27 .₹ 9 | M 2 |
| T 3 | 22 49 6 | 10°32'27 | 20°49 | 23°30 | 14° 8 | 20° 2 | 3° 3 | 16° 4 | 18° 5 | 1°53 | 20° 8 | 6°27 | 6°41 | 24°53 | 27° 9 | T 3 |
| W 4 | 22 53 3 | 11°30'45 | 5 ₹ 0 | 25°10 | 15°20 | 20°40 | 3°15 | 16°11 | 18° 3 | 1°53 | 20° 8 | 6°27 | 6°38 | 25° 0 | 27° 9 | W 4 |
| T 5 | 22 56 59 | 12°29'05 | 19° 3 | 26°49 | 16°32 | 21°19 | 3°26 | 16°17 | 18° 2 | 1°53 | 20° 8 | 6°27 | 6°35 | 25° 6 | 27° 9 | T 5 |
| F 6 | 23 0 56 | 13°27'26 | 3号 0 | 28°27 | 17°45 | 21°58 | 3°38 | 16°24 | 18° 1 | 1°53 | 20° 9 | 6°26 | 6°32 | 25°13 | 27°10 | F 6 |
| S 7 | 23 4 53 | 14°25'48 | 16°48 | 0요 4 | 18°57 | 22°36 | 3°50 | 16°30 | 18° 0 | 1°52 | 20° 9 | 6°23 | 6°29 | 25°20 | 27°10 | S 7 |
| S 8 | 23 8 49 | 15°24'12 | 0≈28 | 1°40 | 20° 9 | 23°15 | 4° 1 | 16°37 | 17°59 | 1°52 | 20° 9 | 6°17 | 6°25 | 25°26 | 27°11 | S 8 |
| M 9 | 23 12 46 | 16°22'38 | 13°58 | 3°15 | 21°20 | 23°54 | 4°13 | 16°43 | 17°58 | 1°52 | 20° 9 | 6° 9 | 6°22 | 25°33 | 27°11 | M 9 |
| T 10 | 23 16 42 | 17°21'06 | 27°17 | 4°48 | 22°32 | 24°33 | 4°24 | 16°50 | 17°58 | 1°52 | 20°10 | 5°58 | 6°19 | 25°40 | 27°12 | T 10 |
| W11 | 23 20 39 | 18°19'35 | 10 ∺ 24 | 6°21 | 23°44 | 25°12 | 4°35 | 16°57 | 17°57 | 1°52 | 20°10 | 5°45 | 6°16 | 25°46 | 27°13 | W11 |
| T 12 | 23 24 35 | 19°18'06 | 23°16 | 7°52 | 24°56 | 25°50 | 4°46 | 17° 3 | 17°56 | 1°52 | 20°10 | 5°33 | 6°13 | 25°53 | 27°14 | T 12 |
| F 13 | 23 28 32 | 20°16'39 | 5 Ƴ 54 | 9°22 | 26° 8 | 26°29 | 4°58 | 17°10 | 17°55 | 1°D52 | 20°10 | 5°21 | 6° 9 | 26° 0 | 27°15 | F 13 |
| S 14 | 23 32 28 | 21°15'14 | 18°17 | 10°52 | 27°20 | 27° 8 | 5° 9 | 17°17 | 17°55 | 1°52 | 20°10 | 5°11 | 6° 6 | 26° 6 | 27°16 | S 14 |
| S 15 | 23 36 25 | 22°13'51 | 0 8 26 | 12°20 | 28°31 | 27°47 | 5°20 | 17°24 | 17°54 | 1°52 | 20°10 | 5° 4 | 6° 3 | 26°13 | 27°17 | S 15 |
| M16 | 23 40 22 | 23°12'30 | 12°24 | 13°47 | 29°43 | 28°26 | 5°31 | 17°30 | 17°53 | 1°52 | 20°11 | 4°59 | 6° 0 | 26°20 | 27°18 | M16 |
| T 17 | 23 44 18 | 24°11'12 | 24°15 | 15°13 | 0 M 55 | 29° 5 | 5°41 | 17°37 | 17°53 | 1°52 | 20°11 | 4°57 | 5°57 | 26°26 | 27°20 | T 17 |
| W18 | 23 48 15 | 25° 9'56 | 6 I 2 | 16°38 | 2° 6 | 29°44 | 5°52 | 17°44 | 17°52 | 1°52 | 20°11 | 4°D56 | 5°54 | 26°33 | 27°21 | W18 |
| T 19 | 23 52 11 | 26° 8'42 | 17°51 | 18° 2 | 3°18 | ე <u>ჲ</u> 23 | 6° 3 | 17°51 | 17°52 | 1°52 | 20°11 | 4°56 | 5°50 | 26°40 | 27°23 | T 19 |
| F 20 | 23 56 8 | 27° 7'30 | 29°47 | 19°25 | 4°29 | 1° 2 | 6°13 | 17°58 | 17°52 | 1°52 | 20°R11 | 4°R57 | 5°47 | 26°46 | 27°24 | F 20 |
| S 21 | 0 0 4 | 28° 6'20 | 119555 | 20°46 | 5°41 | 1°42 | 6°24 | 18° 5 | 17°51 | 1°53 | 20°11 | 4°56 | 5°44 | 26°53 | 27°26 | S 21 |
| S 22 | 0 4 1 | 29° 5'13 | 24°21 | 22° 6 | 6°52 | 2°21 | 6°34 | 18°12 | 17°51 | 1°53 | 20°11 | 4°53 | 5°41 | 26°59 | 27°27 | S 22 |
| M23 | 0 7 57 | 0요 4'08 | 7 N 9 | 23°25 | 8° 4 | 3° 0 | 6°45 | 18°19 | 17°51 | 1°53 | 20°11 | 4°47 | 5°38 | 27° 6 | 27°29 | M23 |
| T 24 | 0 11 54 | 1° 3'06 | 20°22 | 24°43 | 9°15 | 3°39 | 6°55 | 18°26 | 17°51 | 1°54 | 20°11 | 4°40 | 5°34 | 27°13 | 27°31 | T 24 |
| W25 | 0 15 51 | 2° 2'05 | 4M) 2 | 25°59 | 10°26 | 4°18 | 7° 5 | 18°33 | 17°50 | 1°54 | 20°10 | 4°31 | 5°31 | 27°19 | 27°33 | W25 |
| T 26 | 0 19 47 | 3° 1'07 | 18° 5 | 27°14 | 11°38 | 4°58 | 7°15 | 18°40 | 17°50 | 1°54 | 20°10 | 4°20 | 5°28 | 27°26 | 27°35 | T 26 |
| F 27 | 0 23 44 | 4° 0'10 | 2 ≏ 29 | 28°27 | 12°49 | 5°37 | 7°25 | 18°48 | 17°D50 | 1°55 | 20°10 | 4°11 | 5°25 | 27°33 | 27°37 | F 27 |
| S 28 | 0 27 40 | 4°59'16 | 17° 7 | 29°39 | 14° 0 | 6°17 | 7°35 | 18°55 | 17°50 | 1°55 | 20°10 | 4° 2 | 5°22 | 27°39 | 27°40 | S 28 |
| S 29 | 0 31 37 | 5°58'24 | 1 M 52 | 0 M .49 | 15°11 | 6°56 | 7°44 | 19° 2 | 17°50 | 1°56 | 20°10 | 3°56 | 5°19 | 27°46 | 27°42 | S 29 |
| M30 | 0 35 33 | 6 ₽ 57'34 | 16 M 36 | 1 M 57 | 16 M 22 | 7 ≙ 35 | 7Ω 54 | 19 ♀ 9 | 17 る 50 | 1 3 56 | 20 I I10 | 3 ₹ 53 | 5 ₹ 15 | 27 8 53 | 27 ×7 44 | M30 |

Delta T = 37.30 sec Greg. Calendar

OCTOBER 1658 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ [™] | 4 | ħ |)f(| ¥ | В | ¥ | ಭ | Ç | ę, | Day |
|-------------|--------------------|-----------------------------|------------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------|-------------------------|------------------------|-----------------------|-----------------------|--------------------------|-------------|
| T 1 | 0 39 30 | 7 ≏ 56'46 | 1 7 13 | 3M 3 | 17 M .33 | 8 ≏ 15 | 8 N 3 | 19 ≏ 16 | 17 る 51 | 1 ප 57 | 20°R 9 | 3°D52 | 5 ₹ 12 | 27 8 59 | 27 ×7 47 | T 1 |
| W 2 | 0 43 26 | 8°55'59 | 15°38 | 4° 7 | 18°44 | 8°54 | 8°13 | 19°23 | 17°51 | 1°58 | 20 I 9 | 3 ₹ 52 | 5° 9 | 28° 6 | 27°49 | W 2 |
| T 3 | 0 47 23 | 9°55'14 | 29°48 | 5° 8 | 19°55 | 9°34 | 8°22 | 19°31 | 17°51 | 1°58 | 20° 9 | 3°53 | 5° 6 | 28°13 | 27°52 | T 3 |
| F 4 | 0 51 20 | 10°54'31 | 13~343 | 6° 7 | 21° 6 | 10°13 | 8°31 | 19°38 | 17°52 | 1°59 | 20° 9 | 3°R53 | 5° 3 | 28°19 | 27°55 | F 4 |
| S 5 | 0 55 16 | 11°53'50 | 27°22 | 7° 3 | 22°17 | 10°53 | 8°40 | 19°45 | 17°52 | 2° 0 | 20° 8 | 3°52 | 5° 0 | 28°26 | 27°58 | S 5 |
| S 6 | 0 59 13 | 12°53'11 | 10≈47 | 7°56 | 23°27 | 11°33 | 8°49 | 19°52 | 17°52 | 2° 0 | 20° 8 | 3°49 | 4°56 | 28°32 | 28° 0 | S 6 |
| M 7 | 1 3 9 | 13°52'33 | 23°57 | 8°45 | 24°38 | 12°12 | 8°58 | 20° 0 | 17°53 | 2° 1 | 20° 7 | 3°43 | 4°53 | 28°39 | 28° 3 | M 7 |
| T 8 | 1 7 6 | 14°51'57 | 6 ¥ 55 | 9°31 | 25°48 26°59 | 12°52 | 9° 7 | 20° 7 | 17°53 17°54 | 2° 2 2° 3 | 20° 7 20° 7 | 3°36 | 4°50 | 28°46 | 28° 6 28° 9 | T 8 W 9 |
| W 9 T 10 | 1 11 2 1 14 59 | 15°51'23 16°50'51 | 19°41 2 Ƴ 14 | 10°13 10°50 | 28° 9 | 13°32 14°11 | 9°15 9°23 | 20°14 20°21 | 17°54 17°55 | 2° 3 2° 3 | 20° / | 3°27 3°18 | 4°47 4°44 | 28°52 28°59 | 28° 13 | T 10 |
| F 11 | 1 14 59 | 10°50'31 | 14°35 | 10°30 | 29°20 | 14°51 | 9°32 | 20°29 | 17°55 | 2° 4 | 20° 6 | 3°10 | 4°40 | 29° 6 | 28°16 | F 11 |
| S 12 | 1 22 52 | 18°49'52 | 26°46 | 11°50 | 0 ₹ 30 | 15°31 | 9°40 | 20°36 | 17°56 | 2° 5 | 20° 5 | 3° 3 | 4°37 | 29°12 | 28°19 | S 12 |
| S 13 | 1 26 48 | 19°49'26 | 8 8 47 | 12°11 | 1°40 | 16°11 | 9°48 | 20°43 | 17°57 | 2° 6 | 20° 5 | 2°58 | 4°34 | 29°19 | 28°22 | S 13 |
| M14 | 1 20 48 | 20°49'26 | 20°41 | 12°11 | 2°50 | 16°51 | 9°48 9°56 | 20°43 20°51 | 17°58 | 2° 6 2° 7 | 20° 3 | 2°56 | 4°34 4°31 | 29°19 29°26 | 28°26 | M14 |
| T 15 | 1 34 42 | 20°49'02 21°48'40 | 2 II 29 | 12°34 | 4° 0 | 17°31 | 10° 4 | 20°58 | 17°58 | 2° 8 | 20° 4 | 2°D55 | 4°28 | 29°32 | 28°29 | T 15 |
| W16 | 1 38 38 | 22°48'21 | 14°15 | 12°R34 | 5°10 | 18°11 | 10°11 | 21° 5 | 17°59 | 2° 9 | 20° 3 | 2°55 | 4°25 | 29°39 | 28°33 | W16 |
| T 17 | 1 42 35 | 23°48'04 | 26° 3 | 12°26 | 6°20 | 18°51 | 10°19 | 21°12 | 18° 0 | 2°10 | 20° 3 | 2°57 | 4°21 | 29°46 | 28°37 | T 17 |
| F 18 | 1 46 31 | 24°47'49 | 7958 | 12°10 | 7°30 | 19°31 | 10°26 | 21°20 | 18° 1 | 2°11 | 20° 2 | 2°58 | 4°18 | 29°52 | 28°40 | F 18 |
| S 19 | 1 50 28 | 25°47'36 | 20° 5 | 11°45 | 8°40 | 20°11 | 10°34 | 21°27 | 18° 3 | 2°13 | 20° 2 | 3° 0 | 4°15 | 29°59 | 28°44 | S 19 |
| S 20 | 1 54 24 | 26°47'25 | 2Ω28 | 11°11 | 9°49 | 20°51 | 10°41 | 21°34 | 18° 4 | 2°14 | 20° 1 | 3°R 0 | 4°12 | 0П 6 | 28°48 | S 20 |
| M21 | 1 58 21 | 27°47'17 | 15°13 | 10°28 | 10°59 | 21°31 | 10°48 | 21°42 | 18° 5 | 2°15 | 20° 0 | 2°58 | 4° 9 | 0°12 | 28°52 | M21 |
| T 22 | 2 2 17 | 28°47'11 | 28°22 | 9°36 | 12° 8 | 22°11 | 10°55 | 21°49 | 18° 6 | 2°16 | 20° 0 | 2°55 | 4° 5 | 0°19 | 28°56 | T 22 |
| W23 | 2 6 14 | 29°47'07 | 12 mg 0 | 8°37 | 13°18 | 22°52 | 11° 1 | 21°56 | 18° 7 | 2°17 | 19°59 | 2°51 | 4° 2 | 0°25 | 29° 0 | W23 |
| T 24 | 2 10 11 | 0ML47'05 | 26° 5 | 7°30 | 14°27 | 23°32 | 11° 8 | 22° 3 | 18° 9 | 2°19 | 19°58 | 2°46 | 3°59 | 0°32 | 29° 4 | T 24 |
| F 25 | 2 14 7 | 1°47'05 | 10 2 36 | 6°17 | 15°36 | 24°12 | 11°14 | 22°11 | 18°10 | 2°20 | 19°58 | 2°41 | 3°56 | 0°39 | 29° 8 | F 25 |
| S 26 | 2 18 4 | 2°47'07 | 25°27 | 5° 1 | 16°45 | 24°53 | 11°20 | 22°18 | 18°12 | 2°21 | 19°57 | 2°37 | 3°53 | 0°45 | 29°12 | S 26 |
| S 27 | 2 22 0 | 3°47'12 | 10 M 30 | 3°43 | 17°54 | 25°33 | 11°26 | 22°25 | 18°13 | 2°23 | 19°56 | 2°34 | 3°50 | 0°52 | 29°17 | S 27 |
| M28 | 2 25 57 | 4°47'18 | 25°35 | 2°26 | 19° 3 | 26°13 | 11°32 | 22°32 | 18°15 | 2°24 | 19°55 | 2°D33 | 3°46 | 0°59 | 29°21 | M28 |
| T 29 | 2 29 53 | 5°47'26 | 10×35 | 1°13 0° 5 | 20°12 | 26°54 | 11°38 | 22°39 | 18°16 | 2°26 | 19°54 | 2°33 | 3°43 | 1° 5 | 29°25 | T 29 |
| W30 T 31 | 2 33 50 2 37 46 | 6°47'35 7 M 47'47 | 25°21 9 ♂ 47 | 0° 5 29 ♀ 4 | 21°21 22 × 29 | 27°34 28 Ω 15 | 11°44 11 Ω 49 | 22°47 22 ≏ 54 | 18°18 18 云 19 | 2°27 2 る 29 | 19°54 19 ∏ 53 | 2°34 2 ×7 35 | 3°40 3 ₹ 37 | 1°12 1 Ⅱ 19 | 29°30 29 ×7 34 | W30 T 31 |
| 1 31 | 23/40 | /1164/4/ | 904/ | ∠y == 4 | 77 X .79 | 20 = 13 | 110649 | 42 == 34 | 10019 | 2029 | 191133 | 7×.33 | 2X.2/ | 1Д19 | ∠9 x ·34 | 1 31 |

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NOVEMBER 1658 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q | ð | 4 | ħ |)Й(| 卉 | В | u | v | ţ | Q K | Day |
|-------------|--------------------|----------------------|------------------------|-----------------|----------------|-----------------|----------------|----------------|----------------|---------------|----------------|---------------|---------------|---------------|-----------------------|-------------|
| F 1 | 2 41 43 | 8 M 47'59 | 23 る 52 | 28°R13 | 23 × 37 | 28 £ 55 | 11 Ω 54 | 23 ₾ 1 | 18 궁 21 | 2 ප 30 | 19°R52 | 2 × 37 | 3 ₹ 34 | 1 Ⅲ 25 | 29 × 39 | F 1 |
| S 2 | 2 45 40 | 9°48'14 | 7 ≈ 35 | 27 ≏ 33 | 24°46 | 29°36 | 11°59 | 23° 8 | 18°23 | 2°32 | 19 Ⅱ 51 | 2°R37 | 3°31 | 1°32 | 29°44 | S 2 |
| S 3 | 2 49 36 | 10°48'29 | 20°56 | 27° 4 | 25°54 | 0 M 17 | 12° 4 | 23°15 | 18°25 | 2°33 | 19°50 | 2°37 | 3°27 | 1°39 | 29°48 | S 3 |
| M 4 T 5 | 2 53 33 2 57 29 | 11°48'46 12°49'05 | 3 ∺ 57 16°41 | 26°47 26°D41 | 27° 2 28°10 | 0°57 1°38 | 12° 9 12°14 | 23°22 23°29 | 18°27 18°28 | 2°35 2°36 | 19°49 19°49 | 2°36 2°33 | 3°24 3°21 | 1°45 1°52 | 29°53 29°58 | M 4 T 5 |
| W 6 | 3 1 26 | 12 49 03 13°49'25 | 29°11 | 26°46 | 29°17 | 2°19 | 12°18 | 23°36 | 18°30 | 2°38 | 19°48 | 2°31 | 3°18 | 1°58 | 29 38 0 궁 3 | W 6 |
| T 7 | 3 5 22 | 14°49'46 | 11 Y 28 | 27° 2 | 0 පි25 | 2°59 | 12°22 | 23°43 | 18°32 | 2°40 | 19°47 | 2°28 | 3°15 | 2° 5 | 0° 8 | T 7 |
| F 8 | 3 9 19 | 15°50'09 | 23°35 | 27°28 | 1°32 | 3°40 | 12°26 | 23°50 | 18°34 | 2°41 | 19°46 | 2°25 | 3°11 | 2°12 | 0°13 | F 8 |
| S 9 | 3 13 15 | 16°50'34 | 5 8 34 | 28° 3 | 2°39 | 4°21 | 12°30 | 23°57 | 18°36 | 2°43 | 19°45 | 2°23 | 3° 8 | 2°18 | 0°18 | S 9 |
| S 10 | 3 17 12 | 17°51'00 | 17°28 | 28°46 | 3°46 | 5° 2 | 12°34 | 24° 4 | 18°39 | 2°45 | 19°44 | 2°21 | 3° 5 | 2°25 | 0°23 | S 10 |
| M11 T 12 | 3 21 9 3 25 5 | 18°51'28 19°51'58 | 29°17 11 Ⅱ 4 | 29°36 0MJ32 | 4°53 6° 0 | 5°43 6°24 | 12°38 12°41 | 24°11 24°18 | 18°41 18°43 | 2°46 2°48 | 19°43 19°42 | 2°D21 2°21 | 3° 2 2°59 | 2°32 2°38 | 0°28 0°33 | M11 T 12 |
| W13 | 3 23 3 | 20°52'29 | 22°52 | 1°34 | 7° 6 | 7° 5 | 12°44 | 24°18 | 18°45 | 2°50 | 19°42 19°41 | 2°22 | 2°56 | 2°45 | 0°38 | W13 |
| T 14 | 3 32 58 | 21°53'02 | 49643 | 2°41 | 8°13 | 7°46 | 12°47 | 24°31 | 18°47 | 2°52 | 19°40 | 2°23 | 2°52 | 2°52 | 0°43 | T 14 |
| F 15 | 3 36 55 | 22°53'36 | 16°40 | 3°52 | 9°19 | 8°27 | 12°50 | 24°38 | 18°50 | 2°54 | 19°39 | 2°24 | 2°49 | 2°58 | 0°48 | F 15 |
| S 16 | 3 40 51 | 23°54'13 | 28°48 | 5° 6 | 10°25 | 9° 8 | 12°53 | 24°45 | 18°52 | 2°55 | 19°38 | 2°25 | 2°46 | 3° 5 | 0°54 | S 16 |
| S 17 | 3 44 48 | 24°54'51 | 11 Ω 10 | 6°23 | 11°30 | 9°49 | 12°55 | 24°51 | 18°54 | 2°57 | 19°37 | 2°25 | 2°43 | 3°12 | 0°59 | S 17 |
| M18 T 19 | 3 48 44 3 52 41 | 25°55'30 26°56'11 | 23°51 6 m 53 | 7°43 9° 5 | 12°36 13°41 | 10°31 11°12 | 12°57 12°59 | 24°58 25° 4 | 18°57 18°59 | 2°59 3° 1 | 19°36 19°35 | 2°R25 2°25 | 2°40 2°37 | 3°18 3°25 | 1° 4 1°10 | M18 T 19 |
| W20 | 3 56 38 | 20°56'54 | 20°21 | 10°29 | 13 41 14°46 | 11°53 | 12 39 13° 1 | 25°11 | 18 39 19° 2 | 3° 3 | 19 33 19°34 | 2°25 | 2°33 | 3°31 | 1°15 | W20 |
| T 21 | 4 0 34 | 28°57'39 | 4 <u>₽</u> 16 | 11°55 | 15°50 | 12°34 | 13° 3 | 25°17 | 19° 4 | 3° 5 | 19°32 | 2°25 | 2°30 | 3°38 | 1°21 | T 21 |
| F 22 | 4 4 3 1 | 29°58'25 | 18°38 | 13°22 | 16°55 | 13°16 | 13° 5 | 25°24 | 19° 7 | 3° 7 | 19°31 | 2°24 | 2°27 | 3°45 | 1°26 | F 22 |
| S 23 | 4 8 27 | 0 ≯ 59'13 | 3 M 23 | 14°50 | 17°59 | 13°57 | 13° 6 | 25°30 | 19°10 | 3° 9 | 19°30 | 2°24 | 2°24 | 3°51 | 1°32 | S 23 |
| S 24 | 4 12 24 | 2° 0'02 | 18°27 | 16°19 | 19° 3 | 14°39 | 13° 7 | 25°37 | 19°12 | 3°11 | 19°29 | 2°D24 | 2°21 | 3°58 | 1°38 | S 24 |
| M25 | 4 16 20 | 3° 0'52 | 3 ₹ 40 | 17°48 | 20° 7 | 15°20 | 13° 8 | 25°43 | 19°15 | 3°13 | 19°28 | 2°R24 | 2°17 | 4° 5 | 1°43 | M25 |
| T 26 W27 | 4 20 17 4 24 13 | 4° 1'44 5° 2'37 | 18°53 3 ⋜ 56 | 19°19 20°49 | 21°10 22°13 | 16° 2 16°43 | 13° 9 13° 9 | 25°49 25°55 | 19°18 19°20 | 3°15 3°17 | 19°27 19°26 | 2°24 2°24 | 2°14 2°11 | 4°11 4°18 | 1°49 1°55 | T 26 W27 |
| T 28 | 4 28 10 | 6° 3'31 | 18°41 | 22°20 | 23°16 | 17°25 | 13° 9 | 26° 2 | 19°23 | 3°19 | 19°25 | 2°24 | 2° 8 | 4°25 | 2° 0 | T 28 |
| F 29 | 4 32 7 | 7° 4'26 | 3≈ 2 | 23°52 | 24°18 | 18° 6 | 13°R 9 | 26° 8 | 19°26 | 3°21 | 19°24 | 2°23 | 2° 5 | 4°31 | 2° 6 | F 29 |
| S 30 | 4 36 3 | 8 ₹ 5'21 | 16≈57 | 25 M 24 | 25 る 20 | 18 ML 48 | 13 Ω 9 | 26 ≙ 14 | 19 る 29 | 3 る 23 | 19 Ⅱ 22 | 2 ₹ 23 | 2 ₹ 2 | 4 Ⅱ 38 | 2 ට 12 | S 30 |

Delta T = 37.18 sec Greg. Calendar

DECEMBER 1658 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | P | ♂ | 4 | ħ |)f(| ¥ | В | ¥ | ಬ | Ç | ę, | Day |
|------|---------|-------------------|----------------|----------------|-------|-----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|------|
| S 1 | 4 40 0 | 9 ⋌ ¹ 6'17 | 0) €24 | 26M56 | 26중22 | 19 M .30 | 13°R 9 | 26 ₽ 20 | 19 る 32 | 3 る 25 | 19°R21 | 2°R22 | 1 ₹ 758 | 4 ∏ 45 | 2 ට 18 | S 1 |
| M 2 | 4 43 56 | 10° 7'14 | 13°26 | 28°28 | 27°23 | 20°12 | 13 N 9 | 26°26 | 19°35 | 3°27 | 19 Ⅱ 20 | 2°D22 | 1°55 | 4°51 | 2°23 | M 2 |
| T 3 | 4 47 53 | 11° 8'12 | 26° 7 | 0 才 1 | 28°24 | 20°53 | 13° 8 | 26°32 | 19°38 | 3°30 | 19°19 | 2 ₹ 22 | 1°52 | 4°58 | 2°29 | T 3 |
| W 4 | 4 51 49 | 12° 9'10 | 8 Ƴ 29 | 1°33 | 29°25 | 21°35 | 13° 7 | 26°38 | 19°41 | 3°32 | 19°18 | 2°23 | 1°49 | 5° 5 | 2°35 | W 4 |
| T 5 | 4 55 46 | 13°10'09 | 20°37 | 3° 6 | 0≈25 | 22°17 | 13° 6 | 26°43 | 19°44 | 3°34 | 19°17 | 2°24 | 1°46 | 5°11 | 2°41 | T 5 |
| F 6 | 4 59 42 | 14°11'08 | 2 8 35 | 4°39 | 1°25 | 22°59 | 13° 5 | 26°49 | 19°47 | 3°36 | 19°15 | 2°25 | 1°43 | 5°18 | 2°47 | F 6 |
| S 7 | 5 3 39 | 15°12'08 | 14°26 | 6°12 | 2°24 | 23°41 | 13° 3 | 26°55 | 19°50 | 3°38 | 19°14 | 2°26 | 1°39 | 5°24 | 2°53 | S 7 |
| S 8 | 5 7 36 | 16°13'09 | 26°14 | 7°45 | 3°23 | 24°23 | 13° 2 | 27° 0 | 19°53 | 3°40 | 19°13 | 2°27 | 1°36 | 5°31 | 2°59 | S 8 |
| M 9 | 5 11 32 | 17°14'11 | 8 I 1 | 9°18 | 4°21 | 25° 5 | 13° 0 | 27° 6 | 19°56 | 3°43 | 19°12 | 2°R27 | 1°33 | 5°38 | 3° 5 | M 9 |
| T 10 | 5 15 29 | 18°15'13 | 19°51 | 10°51 | 5°19 | 25°47 | 12°58 | 27°11 | 19°59 | 3°45 | 19°11 | 2°26 | 1°30 | 5°44 | 3°11 | T 10 |
| W11 | 5 19 25 | 19°16'16 | 19544 | 12°25 | 6°16 | 26°29 | 12°56 | 27°17 | 20° 2 | 3°47 | 19°10 | 2°25 | 1°27 | 5°51 | 3°17 | W11 |
| T 12 | 5 23 22 | 20°17'20 | 13°42 | 13°58 | 7°13 | 27°11 | 12°53 | 27°22 | 20° 5 | 3°49 | 19° 8 | 2°22 | 1°23 | 5°58 | 3°23 | T 12 |
| F 13 | 5 27 18 | 21°18'25 | 25°49 | 15°32 | 8° 9 | 27°53 | 12°51 | 27°27 | 20° 8 | 3°51 | 19° 7 | 2°19 | 1°20 | 6° 4 | 3°29 | F 13 |
| S 14 | 5 31 15 | 22°19'30 | 8 N 5 | 17° 6 | 9° 5 | 28°35 | 12°48 | 27°33 | 20°12 | 3°54 | 19° 6 | 2°16 | 1°17 | 6°11 | 3°35 | S 14 |
| S 15 | 5 35 11 | 23°20'36 | 20°33 | 18°40 | 10° 0 | 29°18 | 12°45 | 27°38 | 20°15 | 3°56 | 19° 5 | 2°13 | 1°14 | 6°18 | 3°41 | S 15 |
| M16 | 5 39 8 | 24°21'42 | 3 m 16 | 20°14 | 10°54 | 0 ∡ 0 | 12°42 | 27°43 | 20°18 | 3°58 | 19° 4 | 2°10 | 1°11 | 6°24 | 3°47 | M16 |
| T 17 | 5 43 5 | 25°22'50 | 16°16 | 21°48 | 11°48 | 0°42 | 12°38 | 27°48 | 20°21 | 4° 0 | 19° 2 | 2° 9 | 1°8 | 6°31 | 3°53 | T 17 |
| W18 | 5 47 1 | 26°23'58 | 29°36 | 23°23 | 12°41 | 1°25 | 12°35 | 27°53 | 20°25 | 4° 3 | 19° 1 | 2°D 9 | 1° 4 | 6°38 | 3°59 | W18 |
| T 19 | 5 50 58 | 27°25'07 | 13 ≏ 18 | 24°57 | 13°33 | 2° 7 | 12°31 | 27°57 | 20°28 | 4° 5 | 19° 0 | 2° 9 | 1° 1 | 6°44 | 4° 5 | T 19 |
| F 20 | 5 54 54 | 28°26'16 | 27°23 | 26°32 | 14°25 | 2°50 | 12°27 | 28° 2 | 20°31 | 4° 7 | 18°59 | 2°11 | 0°58 | 6°51 | 4°11 | F 20 |
| S 21 | 5 58 51 | 29°27'26 | 11 M 50 | 28° 7 | 15°16 | 3°32 | 12°23 | 28° 7 | 20°35 | 4° 9 | 18°58 | 2°12 | 0°55 | 6°57 | 4°18 | S 21 |
| S 22 | 6 2 47 | 0 궁 28'37 | 26°37 | 29°43 | 16° 6 | 4°15 | 12°19 | 28°12 | 20°38 | 4°12 | 18°57 | 2°R13 | 0°52 | 7° 4 | 4°24 | S 22 |
| M23 | 6 6 44 | 1°29'48 | 11 ~ 38 | 1 る 19 | 16°55 | 4°57 | 12°14 | 28°16 | 20°41 | 4°14 | 18°56 | 2°13 | 0°49 | 7°11 | 4°30 | M23 |
| T 24 | 6 10 40 | 2°31'00 | 26°45 | 2°55 | 17°43 | 5°40 | 12° 9 | 28°21 | 20°45 | 4°16 | 18°54 | 2°11 | 0°45 | 7°17 | 4°36 | T 24 |
| W25 | 6 14 37 | 3°32'11 | 11 る 49 | 4°31 | 18°31 | 6°22 | 12° 5 | 28°25 | 20°48 | 4°19 | 18°53 | 2° 8 | 0°42 | 7°24 | 4°42 | W25 |
| T 26 | 6 18 34 | 4°33'23 | 26°42 | 6° 7 | 19°17 | 7° 5 | 12° 0 | 28°29 | 20°52 | 4°21 | 18°52 | 2° 4 | 0°39 | 7°31 | 4°48 | T 26 |
| F 27 | 6 22 30 | 5°34'35 | 11≈14 | 7°44 | 20° 3 | 7°48 | 11°55 | 28°33 | 20°55 | 4°23 | 18°51 | 1°58 | 0°36 | 7°37 | 4°54 | F 27 |
| S 28 | 6 26 27 | 6°35'46 | 25°20 | 9°22 | 20°47 | 8°31 | 11°49 | 28°38 | 20°59 | 4°25 | 18°50 | 1°53 | 0°33 | 7°44 | 5° 0 | S 28 |
| S 29 | 6 30 23 | 7°36'58 | 8) 57 | 10°59 | 21°31 | 9°13 | 11°44 | 28°42 | 21° 2 | 4°28 | 18°49 | 1°48 | 0°29 | 7°51 | 5° 7 | S 29 |
| M30 | 6 34 20 | 8°38'09 | 22° 7 | 12°37 | 22°13 | 9°56 | 11°38 | 28°46 | 21° 6 | 4°30 | 18°48 | 1°45 | 0°26 | 7°57 | 5°13 | M30 |
| T 31 | 6 38 16 | 9 ට 39'19 | 4 Υ51 | 14 궁 15 | 22≈55 | 10 ₮ 39 | 11 Ω 33 | 28 ≏ 49 | 21 궁 9 | 4 궁 32 | 18 Ⅲ 47 | 1°D44 | 0 х 23 | 8 I I 4 | 5 る 19 | T 31 |

Delta T = 37.13 sec Greg. Calendar

JANUARY 1659 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)ţ(| ¥ | Р | n | Ω | ţ | ķ | Day |
|------|---------|----------|----------------|----------------|-------|-----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|---------------|------|
| W 1 | 6 42 13 | 10~30 | 17 Υ 14 | 15 る 54 | 23≈35 | 11 × 122 | 11°R27 | 28 ₽ 53 | 21 3 13 | 4 3 34 | 18°R45 | 1 √ 144 | 0 ₹ 20 | 8 I I11 | 5 云 25 | W 1 |
| T 2 | 6 46 10 | 11°41'39 | 29°20 | 17°33 | 24°14 | 12° 5 | 11 Ω 21 | 28°57 | 21°16 | 4°37 | 18 Ⅱ 44 | 1°45 | 0°17 | 8°17 | 5°31 | T 2 |
| F 3 | 6 50 6 | 12°42'49 | 11 8 14 | 19°12 | 24°51 | 12°48 | 11°14 | 29° 1 | 21°20 | 4°39 | 18°43 | 1°47 | 0°14 | 8°24 | 5°37 | F 3 |
| S 4 | 6 54 3 | 13°43'58 | 23° 2 | 20°52 | 25°27 | 13°31 | 11° 8 | 29° 4 | 21°23 | 4°41 | 18°42 | 1°48 | 0°10 | 8°31 | 5°43 | S 4 |
| S 5 | 6 57 59 | 14°45'07 | 4∏49 | 22°32 | 26° 2 | 14°14 | 11° 2 | 29° 7 | 21°27 | 4°43 | 18°41 | 1°R49 | 0° 7 | 8°37 | 5°49 | S 5 |
| M 6 | 7 1 56 | 15°46'15 | 16°37 | 24°12 | 26°35 | 14°57 | 10°55 | 29°11 | 21°30 | 4°46 | 18°40 | 1°47 | 0° 4 | 8°44 | 5°55 | M 6 |
| T 7 | 7 5 52 | 16°47'23 | 28°30 | 25°52 | 27° 7 | 15°40 | 10°48 | 29°14 | 21°34 | 4°48 | 18°39 | 1°44 | 0° 1 | 8°50 | 6° 1 | T 7 |
| W 8 | 7 9 49 | 17°48'30 | 10931 | 27°32 | 27°37 | 16°23 | 10°42 | 29°17 | 21°37 | 4°50 | 18°38 | 1°38 | 29 M 58 | 8°57 | 6° 7 | W 8 |
| T 9 | 7 13 45 | 18°49'37 | 22°42 | 29°13 | 28° 6 | 17° 7 | 10°35 | 29°20 | 21°41 | 4°52 | 18°37 | 1°31 | 29°55 | 9° 4 | 6°13 | T 9 |
| F 10 | 7 17 42 | 19°50'43 | 5 Ω 3 | 0≈53 | 28°33 | 17°50 | 10°28 | 29°23 | 21°44 | 4°55 | 18°36 | 1°21 | 29°51 | 9°10 | 6°19 | F 10 |
| S 11 | 7 21 39 | 20°51'49 | 17°35 | 2°34 | 28°58 | 18°33 | 10°21 | 29°26 | 21°48 | 4°57 | 18°35 | 1°12 | 29°48 | 9°17 | 6°25 | S 11 |
| S 12 | 7 25 35 | 21°52'54 | 0 m 19 | 4°14 | 29°21 | 19°16 | 10°13 | 29°29 | 21°51 | 4°59 | 18°34 | 1° 3 | 29°45 | 9°24 | 6°31 | S 12 |
| M13 | 7 29 32 | 22°54'00 | 13°15 | 5°53 | 29°42 | 20° 0 | 10° 6 | 29°32 | 21°55 | 5° 1 | 18°33 | 0°55 | 29°42 | 9°30 | 6°37 | M13 |
| T 14 | 7 33 28 | 23°55'04 | 26°23 | 7°32 | 0₩ 2 | 20°43 | 9°59 | 29°34 | 21°58 | 5° 3 | 18°32 | 0°49 | 29°39 | 9°37 | 6°43 | T 14 |
| W15 | 7 37 25 | 24°56'09 | 9 <u>₽</u> 45 | 9°11 | 0°19 | 21°27 | 9°51 | 29°37 | 22° 2 | 5° 6 | 18°31 | 0°46 | 29°35 | 9°44 | 6°49 | W15 |
| T 16 | 7 41 21 | 25°57'13 | 23°22 | 10°48 | 0°34 | 22°10 | 9°44 | 29°39 | 22° 6 | 5° 8 | 18°30 | 0°D44 | 29°32 | 9°50 | 6°55 | T 16 |
| F 17 | 7 45 18 | 26°58'16 | 7 M .15 | 12°24 | 0°48 | 22°54 | 9°36 | 29°41 | 22° 9 | 5°10 | 18°30 | 0°45 | 29°29 | 9°57 | 7° 1 | F 17 |
| S 18 | 7 49 14 | 27°59'20 | 21°23 | 13°58 | 0°59 | 23°37 | 9°29 | 29°44 | 22°13 | 5°12 | 18°29 | 0°45 | 29°26 | 10° 4 | 7° 6 | S 18 |
| S 19 | 7 53 11 | 29° 0'22 | 5 ₹ 48 | 15°30 | 1° 7 | 24°21 | 9°21 | 29°46 | 22°16 | 5°14 | 18°28 | 0°R46 | 29°23 | 10°10 | 7°12 | S 19 |
| M20 | 7 57 8 | 0≈ 1'25 | 20°25 | 17° 0 | 1°14 | 25° 4 | 9°13 | 29°48 | 22°20 | 5°16 | 18°27 | 0°44 | 29°20 | 10°17 | 7°18 | M20 |
| T 21 | 8 1 4 | 1° 2'27 | 5 궁 10 | 18°26 | 1°18 | 25°48 | 9° 5 | 29°49 | 22°23 | 5°18 | 18°26 | 0°40 | 29°16 | 10°24 | 7°24 | T 21 |
| W22 | 8 5 1 | 2° 3'28 | 19°57 | 19°49 | 1°R19 | 26°32 | 8°57 | 29°51 | 22°27 | 5°20 | 18°25 | 0°33 | 29°13 | 10°30 | 7°29 | W22 |
| T 23 | 8 8 57 | 3° 4'28 | 4≈38 | 21° 7 | 1°19 | 27°15 | 8°49 | 29°53 | 22°30 | 5°23 | 18°25 | 0°24 | 29°10 | 10°37 | 7°35 | T 23 |
| F 24 | 8 12 54 | 4° 5'27 | 19° 5 | 22°21 | 1°15 | 27°59 | 8°41 | 29°55 | 22°34 | 5°25 | 18°24 | 0°13 | 29° 7 | 10°44 | 7°41 | F 24 |
| S 25 | 8 16 50 | 5° 6'25 | 3 ∺ 11 | 23°28 | 1° 9 | 28°43 | 8°33 | 29°56 | 22°37 | 5°27 | 18°23 | 0° 2 | 29° 4 | 10°50 | 7°46 | S 25 |
| S 26 | 8 20 47 | 6° 7'21 | 16°52 | 24°29 | 1° 1 | 2 <u>9</u> °27 | 8°25 | 29°57 | 22°41 | 5°29 | 18°22 | 29 M 53 | 29° 1 | 10°57 | 7°52 | S 26 |
| M27 | 8 24 43 | 7° 8'17 | 0 Υ 6 | 25°23 | 0°50 | 0 ਰ 11 | 8°17 | 29°59 | 22°44 | 5°31 | 18°22 | 29°45 | 28°57 | 11° 3 | 7°57 | M27 |
| T 28 | 8 28 40 | 8° 9'11 | 12°55 | 26° 8 | 0°37 | 0°55 | 8° 9 | 29°59 | 22°48 | 5°33 | 18°21 | 29°39 | 28°54 | 11°10 | 8° 3 | T 28 |
| W29 | 8 32 37 | 9°10'04 | 25°21 | 26°45 | 0°21 | 1°38 | 8° 1 | 0M 1 | 22°51 | 5°35 | 18°20 | 29°36 | 28°51 | 11°17 | 8° 8 | W29 |
| T 30 | 8 36 33 | 10°10'56 | 7829 | 27°12 | 0° 3 | 2°22 | 7°54 | 0° 2 | 22°54 | 5°37 | 18°19 | 29°D35 | 28°48 | 11°23 | 8°14 | T 30 |
| F 31 | 8 40 30 | 11≈11'46 | 19 8 25 | 27 ≈ 28 | 29≈42 | 3중 6 | 7Ω 46 | OM 3 | 22 궁 58 | 5 る 39 | 18耳19 | 29 M 35 | 28 M 45 | 11 II 30 | 8 궁 19 | F 31 |

Delta T = 37.07 sec

Greg. Calendar

FEBRUARY 1659 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)ұ(| ¥ | Р | ₽. | Ω | Ç | ×0 | Day |
|------|----------|------------------|----------------|----------------|--------|----------------|--------------|----------------|----------------|---------------|-----------------|-----------------|-----------------|-----------------|----------------|------|
| S 1 | 8 44 26 | 12≈12'34 | 1 I I13 | 27°R34 | 29°R19 | 3 ට 50 | 7°R38 | OM 3 | 23ට 1 | 5 궁 40 | 18°R18 | 29°R36 | 28 M 41 | 11 II 37 | 8 궁 25 | S 1 |
| S 2 | 8 48 23 | 13°13'21 | 13° 0 | 27≈29 | 28≈54 | 4°34 | 7Ω 30 | 0° 4 | 23° 5 | 5°42 | 18 I I18 | 29 TL 35 | 28°38 | 11°43 | 8°30 | S 2 |
| M 3 | 8 52 19 | 14°14'07 | 24°50 | 27°13 | 28°26 | 5°19 | 7°22 | 0° 4 | 23° 8 | 5°44 | 18°17 | 29°32 | 28°35 | 11°50 | 8°35 | M 3 |
| T 4 | 8 56 16 | 15°14'51 | 69548 | 26°46 | 27°57 | 6° 3 | 7°14 | 0° 5 | 23°11 | 5°46 | 18°16 | 29°26 | 28°32 | 11°57 | 8°40 | T 4 |
| W 5 | 9 0 12 | 16°15'34 | 18°57 | 26° 9 | 27°26 | 6°47 | 7° 6 | 0° 5 | 23°15 | 5°48 | 18°16 | 29°18 | 28°29 | 12° 3 | 8°46 | W 5 |
| T 6 | 9 4 9 | 17°16'15 | 1 Q 20 | 25°23 | 26°53 | 7°31 | 6°58 | 0° 5 | 23°18 | 5°50 | 18°15 | 29° 7 | 28°26 | 12°10 | 8°51 | T 6 |
| F 7 | 9 8 6 | 18°16'55 | 13°57 | 24°29 | 26°19 | 8°15 | 6°51 | 0° 6 | 23°21 | 5°52 | 18°15 | 28°54 | 28°22 | 12°17 | 8°56 | F 7 |
| S 8 | 9 12 2 | 19°17'33 | 26°49 | 23°29 | 25°44 | 8°59 | 6°43 | 0°R 6 | 23°25 | 5°53 | 18°14 | 28°41 | 28°19 | 12°23 | 9° 1 | S 8 |
| S 9 | 9 15 59 | 20°18'10 | 9 m 54 | 22°24 | 25° 8 | 9°44 | 6°35 | 0° 5 | 23°28 | 5°55 | 18°14 | 28°27 | 28°16 | 12°30 | 9° 6 | S 9 |
| M10 | 9 19 55 | 21°18'45 | 23°12 | 21°16 | 24°31 | 10°28 | 6°28 | 0° 5 | 23°31 | 5°57 | 18°13 | 28°16 | 28°13 | 12°37 | 9°11 | M10 |
| T 11 | 9 23 52 | 22°19'19 | 6 ≏ 41 | 20° 7 | 23°54 | 11°12 | 6°20 | 0° 5 | 23°34 | 5°59 | 18°13 | 28° 7 | 28°10 | 12°43 | 9°16 | T 11 |
| W12 | 9 27 48 | 23°19'52 | 20°18 | 18°59 | 23°16 | 11°57 | 6°13 | 0° 5 | 23°38 | 6° 0 | 18°12 | 28° 1 | 28° 6 | 12°50 | 9°21 | W12 |
| T 13 | 9 31 45 | 24°20'24 | 4M 4 | 17°53 | 22°39 | 12°41 | 6° 6 | 0° 4 | 23°41 | 6° 2 | 18°12 | 27°58 | 28° 3 | 12°56 | 9°26 | T 13 |
| F 14 | 9 35 41 | 25°20'54 | 17°58 | 16°50 | 22° 2 | 13°26 | 5°58 | 0° 3 | 23°44 | 6° 4 | 18°12 | 27°57 | 28° 0 | 13° 3 | 9°30 | F 14 |
| S 15 | 9 39 38 | 26°21'23 | 1 ₹ 59 | 15°53 | 21°25 | 14°10 | 5°51 | 0° 3 | 23°47 | 6° 5 | 18°11 | 27°57 | 27°57 | 13°10 | 9°35 | S 15 |
| S 16 | 9 43 35 | 27°21'51 | 16° 8 | 15° 2 | 20°49 | 14°55 | 5°44 | 0° 2 | 23°50 | 6° 7 | 18°11 | 27°56 | 27°54 | 13°16 | 9°40 | S 16 |
| M17 | 9 47 31 | 28°22'17 | 0 궁 23 | 14°18 | 20°15 | 15°39 | 5°37 | 0° 1 | 23°53 | 6° 8 | 18°11 | 27°54 | 27°51 | 13°23 | 9°44 | M17 |
| T 18 | 9 51 28 | 29°22'42 | 14°43 | 13°41 | 19°42 | 16°24 | 5°31 | 29 £ 59 | 23°56 | 6°10 | 18°10 | 27°49 | 27°47 | 13°30 | 9°49 | T 18 |
| W19 | 9 55 24 | 0₩23'06 | 29° 2 | 13°11 | 19°10 | 17° 8 | 5°24 | 29°59 | 23°59 | 6°12 | 18°10 | 27°41 | 27°44 | 13°36 | 9°53 | W19 |
| T 20 | 9 59 21 | 1°23'28 | 13≈18 | 12°48 | 18°40 | 17°53 | 5°17 | 29°57 | 24° 2 | 6°13 | 18°10 | 27°30 | 27°41 | 13°43 | 9°58 | T 20 |
| F 21 | 10 3 17 | 2°23'48 | 27°24 | 12°33 | 18°11 | 18°37 | 5°11 | 29°56 | 24° 5 | 6°14 | 18°10 | 27°18 | 27°38 | 13°50 | 10° 2 | F 21 |
| S 22 | 10 7 14 | 3°24'07 | 11 米 14 | 12°24 | 17°45 | 19°22 | 5° 5 | 29°55 | 24° 8 | 6°16 | 18° 9 | 27° 5 | 27°35 | 13°56 | 10° 7 | S 22 |
| S 23 | 10 11 10 | 4°24'24 | 24°45 | 12°D23 | 17°21 | 20° 7 | 4°58 | 29°53 | 24°11 | 6°17 | 18° 9 | 26°53 | 27°32 | 14° 3 | 10°11 | S 23 |
| M24 | 10 15 7 | 5°24'39 | 7 Υ 54 | 12°28 | 16°59 | 20°52 | 4°52 | 29°52 | 24°14 | 6°19 | 18° 9 | 26°43 | 27°28 | 14°10 | 10°15 | M24 |
| T 25 | 10 19 4 | 6°24'52 | 20°41 | 12°39 | 16°39 | 21°36 | 4°47 | 29°50 | 24°17 | 6°20 | 18° 9 | 26°36 | 27°25 | 14°16 | 10°19 | T 25 |
| W26 | 10 23 0 | 7°25'03 | 3 8 8 | 12°57 | 16°22 | 22°21 | 4°41 | 29°48 | 24°20 | 6°21 | 18° 9 | 26°31 | 27°22 | 14°23 | 10°23 | W26 |
| T 27 | 10 26 57 | 8°25'12 | 15°17 | 13°19 | 16° 7 | 23° 6 | 4°35 | 29°46 | 24°23 | 6°23 | 18° 9 | 26°29 | 27°19 | 14°30 | 10°27 | T 27 |
| F 28 | 10 30 53 | 9 ∺ 25'18 | 27814 | 13 ≈ 47 | 15≈54 | 23 궁 51 | 4Ω 30 | 29 ≏ 44 | 24 궁 25 | 6 ප 24 | 18 I 9 | 26°D29 | 27 M .16 | 14 Ⅱ 36 | 10 ට 31 | F 28 |

Delta T = 37.01 sec

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| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| # | В | ß | v | Ç | ę, | Day |
|------|----------|-------------------|----------------|----------------|--------|----------------|--------------|----------------|----------------|----------------|----------------|--------|----------------|----------------|----------------|------|
| S 1 | 10 34 50 | 10 ∺ 25′23 | 9耳 4 | 14 ≈ 19 | 15°R44 | 24 궁 35 | 4°R24 | 29°R42 | 24 궁 28 | 6 පි 25 | 18°R 9 | 26°R29 | 27 M 12 | 14 Ⅱ 43 | 10 ට 35 | S 1 |
| S 2 | 10 38 46 | 11°25'26 | 20°52 | 14°56 | 15≈36 | 25°20 | 4Ω 19 | 29 ≏ 40 | 24°31 | 6°26 | 18°D 9 | 26M29 | 27° 9 | 14°50 | 10°39 | S 2 |
| M 3 | 10 42 43 | 12°25'26 | 29544 | 15°36 | 15°31 | 26° 5 | 4°14 | 29°37 | 24°33 | 6°28 | 18耳 9 | 26°27 | 27° 6 | 14°56 | 10°43 | M 3 |
| T 4 | 10 46 39 | 13°25'25 | 14°45 | 16°21 | 15°29 | 26°50 | 4° 9 | 29°35 | 24°36 | 6°29 | 18° 9 | 26°22 | 27° 3 | 15° 3 | 10°46 | T 4 |
| W 5 | 10 50 36 | 14°25'21 | 26°59 | 17° 9 | 15°D28 | 27°35 | 4° 5 | 29°33 | 24°39 | 6°30 | 18° 9 | 26°16 | 27° 0 | 15° 9 | 10°50 | W 5 |
| T 6 | 10 54 32 | 15°25'15 | 9 Ω 29 | 18° 1 | 15°30 | 28°20 | 4° 0 | 29°30 | 24°41 | 6°31 | 18° 9 | 26° 6 | 26°57 | 15°16 | 10°54 | T 6 |
| F 7 | 10 58 29 | 16°25'07 | 22°19 | 18°56 | 15°35 | 29° 5 | 3°56 | 29°27 | 24°44 | 6°32 | 18° 9 | 25°55 | 26°53 | 15°23 | 10°57 | F 7 |
| S 8 | 11 2 26 | 17°24'56 | 5 m 27 | 19°53 | 15°42 | 29°50 | 3°52 | 29°25 | 24°46 | 6°33 | 18° 9 | 25°44 | 26°50 | 15°29 | 11° 0 | S 8 |
| S 9 | 11 6 22 | 18°24'44 | 18°54 | 20°54 | 15°51 | 0≈35 | 3°48 | 29°22 | 24°49 | 6°34 | 18° 9 | 25°32 | 26°47 | 15°36 | 11° 4 | S 9 |
| M10 | 11 10 19 | 19°24'30 | 2 ₾ 36 | 21°57 | 16° 2 | 1°20 | 3°44 | 29°19 | 24°51 | 6°35 | 18° 9 | 25°22 | 26°44 | 15°43 | 11° 7 | M10 |
| T 11 | 11 14 15 | 20°24'13 | 16°31 | 23° 2 | 16°15 | 2° 5 | 3°40 | 29°16 | 24°53 | 6°36 | 18° 9 | 25°14 | 26°41 | 15°49 | 11°10 | T 11 |
| W12 | 11 18 12 | 21°23'55 | 0 M .33 | 24°10 | 16°31 | 2°50 | 3°37 | 29°13 | 24°56 | 6°37 | 18°10 | 25° 9 | 26°38 | 15°56 | 11°13 | W12 |
| T 13 | 11 22 8 | 22°23'35 | 14°40 | 25°19 | 16°48 | 3°35 | 3°34 | 29°10 | 24°58 | 6°38 | 18°10 | 25° 7 | 26°34 | 16° 3 | 11°16 | T 13 |
| F 14 | 11 26 5 | 23°23'14 | 28°49 | 26°31 | 17° 7 | 4°20 | 3°31 | 29° 7 | 25° 0 | 6°39 | 18°10 | 25°D 6 | 26°31 | 16° 9 | 11°19 | F 14 |
| S 15 | 11 30 1 | 24°22'51 | 12 × 58 | 27°45 | 17°29 | 5° 5 | 3°28 | 29° 3 | 25° 2 | 6°40 | 18°10 | 25° 7 | 26°28 | 16°16 | 11°22 | S 15 |
| S 16 | 11 33 58 | 25°22'26 | 2 <u>7°</u> 6 | 29° 1 | 17°52 | 5°51 | 3°25 | 29° 0 | 25° 5 | 6°40 | 18°11 | 25°R 7 | 26°25 | 16°23 | 11°25 | S 16 |
| M17 | 11 37 55 | 26°21'59 | 11 궁 10 | 0 ∺ 19 | 18°17 | 6°36 | 3°23 | 28°57 | 25° 7 | 6°41 | 18°11 | 25° 6 | 26°22 | 16°29 | 11°28 | M17 |
| T 18 | 11 41 51 | 27°21'31 | 25°12 | 1°38 | 18°43 | 7°21 | 3°20 | 28°53 | 25° 9 | 6°42 | 18°11 | 25° 3 | 26°18 | 16°36 | 11°31 | T 18 |
| W19 | 11 45 48 | 28°21'00 | 9≈ 7 | 3° 0 | 19°11 | 8° 6 | 3°18 | 28°49 | 25°11 | 6°43 | 18°12 | 24°58 | 26°15 | 16°43 | 11°33 | W19 |
| T 20 | 11 49 44 | 29°20'28 | 22°56 | 4°22 | 19°41 | 8°51 | 3°16 | 28°46 | 25°13 | 6°43 | 18°12 | 24°50 | 26°12 | 16°49 | 11°36 | T 20 |
| F 21 | 11 53 41 | 0 Ƴ 19'54 | 6) €34 | 5°47 | 20°12 | 9°37 | 3°14 | 28°42 | 25°15 | 6°44 | 18°12 | 24°41 | 26° 9 | 16°56 | 11°38 | F 21 |
| S 22 | 11 57 37 | 1°19'18 | 19°59 | 7°13 | 20°45 | 10°22 | 3°13 | 28°38 | 25°17 | 6°44 | 18°13 | 24°31 | 26° 6 | 17° 3 | 11°41 | S 22 |
| S 23 | 12 134 | 2°18'40 | 3 Ƴ 9 | 8°40 | 21°19 | 11° 7 | 3°11 | 28°35 | 25°19 | 6°45 | 18°13 | 24°22 | 26° 3 | 17° 9 | 11°43 | S 23 |
| M24 | 12 5 30 | 3°18'00 | 16° 3 | 10° 9 | 21°54 | 11°53 | 3°10 | 28°31 | 25°21 | 6°46 | 18°14 | 24°15 | 25°59 | 17°16 | 11°45 | M24 |
| T 25 | 12 9 27 | 4°17'18 | 28°40 | 11°40 | 22°31 | 12°38 | 3° 9 | 28°27 | 25°22 | 6°46 | 18°14 | 24° 9 | 25°56 | 17°23 | 11°47 | T 25 |
| W26 | 12 13 24 | 5°16'34 | 118 0 | 13°12 | 23° 8 | 13°23 | 3° 8 | 28°23 | 25°24 | 6°46 | 18°15 | 24° 6 | 25°53 | 17°29 | 11°49 | W26 |
| T 27 | 12 17 20 | 6°15'47 | 23° 7 | 14°45 | 23°47 | 14° 8 | 3° 8 | 28°19 | 25°26 | 6°47 | 18°15 | 24°D 5 | 25°50 | 17°36 | 11°51 | T 27 |
| F 28 | 12 21 17 | 7°14'59 | 5 Ⅱ 4 | 16°20 | 24°28 | 14°54 | 3° 7 | 28°15 | 25°27 | 6°47 | 18°16 | 24° 6 | 25°47 | 17°43 | 11°53 | F 28 |
| S 29 | 12 25 13 | 8°14'08 | 16°54 | 17°57 | 25° 9 | 15°39 | 3° 7 | 28°11 | 25°29 | 6°48 | 18°16 | 24° 7 | 25°43 | 17°49 | 11°55 | S 29 |
| S 30 | 12 29 10 | 9°13'14 | 28°42 | 19°34 | 25°51 | 16°24 | 3°D 7 | 28° 6 | 25°31 | 6°48 | 18°17 | 24° 9 | 25°40 | 17°56 | 11°57 | S 30 |
| M31 | 12 33 6 | 10 Y 12'19 | 10934 | 21) 14 | 26≈34 | 17≈10 | 3 N 7 | 28 º 2 | 25 る 32 | 6 පි 48 | 18 Ⅱ 18 | 24°R 9 | 25 M 37 | 18 II 2 | 11 る 59 | M31 |

Delta T = 36.96 sec

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|------|----------|-------------------|----------------|----------------|----------------|---------------|---------------|----------------|----------------|---------------|----------------|--------|----------------|----------------|----------------|------|
| T 1 | 12 37 3 | 11 Υ 11'21 | 22935 | 22) 54 | 27≈18 | 17≈55 | 3 0 7 | 27°R58 | 25 る 34 | 6 云 49 | 18 Ⅲ 18 | 24°R 8 | 25 M 34 | 18耳 9 | 12る 0 | T 1 |
| W 2 | 12 40 59 | 12°10'21 | 4 Ω 50 | 24°37 | 28° 3 | 18°40 | 3° 8 | 27 ≏ 54 | 25°35 | 6°49 | 18°19 | 24M 6 | 25°31 | 18°16 | 12° 2 | W 2 |
| T 3 | 12 44 56 | 13° 9'18 | 17°23 | 26°20 | 28°49 | 19°26 | 3° 9 | 27°49 | 25°36 | 6°49 | 18°20 | 24° 2 | 25°28 | 18°22 | 12° 3 | T 3 |
| F 4 | 12 48 53 | 14° 8'13 | 0 m 17 | 28° 5 | 29°36 | 20°11 | 3°10 | 27°45 | 25°38 | 6°49 | 18°20 | 23°56 | 25°24 | 18°29 | 12° 4 | F 4 |
| S 5 | 12 52 49 | 15° 7'06 | 13°34 | 29°52 | 0 ∺ 24 | 20°56 | 3°11 | 27°41 | 25°39 | 6°49 | 18°21 | 23°50 | 25°21 | 18°36 | 12° 6 | S 5 |
| S 6 | 12 56 46 | 16° 5'57 | 27°14 | 1 Y 40 | 1°12 | 21°42 | 3°12 | 27°36 | 25°40 | 6°49 | 18°22 | 23°43 | 25°18 | 18°42 | 12° 7 | S 6 |
| M 7 | 13 0 42 | 17° 4'46 | 11 ≏ 15 | 3°30 | 2° 1 | 22°27 | 3°13 | 27°32 | 25°41 | 6°49 | 18°22 | 23°38 | 25°15 | 18°49 | 12° 8 | M 7 |
| T 8 | 13 439 | 18° 3'32 | 25°33 | 5°21 | 2°51 | 23°13 | 3°15 | 27°27 | 25°43 | 6°R49 | 18°23 | 23°34 | 25°12 | 18°56 | 12° 9 | T 8 |
| W 9 | 13 8 35 | 19° 2'17 | 10 M 1 | 7°14 | 3°42 | 23°58 | 3°17 | 27°23 | 25°44 | 6°49 | 18°24 | 23°31 | 25° 9 | 19° 2 | 12°10 | W 9 |
| T 10 | 13 12 32 | 20° 1'00 | 24°35 | 9° 8 | 4°33 | 24°43 | 3°19 | 27°18 | 25°45 | 6°49 | 18°25 | 23°D31 | 25° 5 | 19° 9 | 12°11 | T 10 |
| F 11 | 13 16 28 | 20°59'41 | 9 ,₹ 9 | 11° 3 | 5°25 | 25°29 | 3°21 | 27°14 | 25°46 | 6°49 | 18°26 | 23°32 | 25° 2 | 19°16 | 12°11 | F 11 |
| S 12 | 13 20 25 | 21°58'20 | 23°37 | 13° 1 | 6°18 | 26°14 | 3°23 | 27° 9 | 25°47 | 6°49 | 18°26 | 23°33 | 24°59 | 19°22 | 12°12 | S 12 |
| S 13 | 13 24 21 | 22°56'58 | 7 궁 56 | 14°59 | 7°11 | 27° 0 | 3°26 | 27° 5 | 25°47 | 6°49 | 18°27 | 23°34 | 24°56 | 19°29 | 12°13 | S 13 |
| M14 | 13 28 18 | 23°55'34 | 22° 4 | 17° 0 | 8° 5 | 27°45 | 3°29 | 27° 0 | 25°48 | 6°49 | 18°28 | 23°R35 | 24°53 | 19°36 | 12°13 | M14 |
| T 15 | 13 32 15 | 24°54'08 | 6≈ 0 | 19° 1 | 8°59 | 28°30 | 3°31 | 26°56 | 25°49 | 6°49 | 18°29 | 23°35 | 24°49 | 19°42 | 12°13 | T 15 |
| W16 | 13 36 11 | 25°52'41 | 19°41 | 21° 4 | 9°54 | 29°16 | 3°34 | 26°51 | 25°50 | 6°49 | 18°30 | 23°33 | 24°46 | 19°49 | 12°14 | W16 |
| T 17 | 13 40 8 | 26°51'12 | 3 ∺ 10 | 23° 8 | 10°50 | 0 ∺ 1 | 3°38 | 26°46 | 25°51 | 6°48 | 18°31 | 23°30 | 24°43 | 19°56 | 12°14 | T 17 |
| F 18 | 13 44 4 | 27°49'41 | 16°24 | 25°14 | 11°45 | 0°46 | 3°41 | 26°42 | 25°51 | 6°48 | 18°32 | 23°26 | 24°40 | 20° 2 | 12°14 | F 18 |
| S 19 | 13 48 1 | 28°48'09 | 29°25 | 27°20 | 12°42 | 1°32 | 3°45 | 26°37 | 25°52 | 6°48 | 18°33 | 23°22 | 24°37 | 20° 9 | 12°R14 | S 19 |
| S 20 | 13 51 57 | 29°46'35 | 12 Y 12 | 29°28 | 13°39 | 2°17 | 3°48 | 26°33 | 25°52 | 6°47 | 18°34 | 23°19 | 24°34 | 20°16 | 12°14 | S 20 |
| M21 | 13 55 54 | 0 8 44'59 | 24°46 | 1836 | 14°36 | 3° 3 | 3°52 | 26°28 | 25°53 | 6°47 | 18°35 | 23°16 | 24°30 | 20°22 | 12°14 | M21 |
| T 22 | 13 59 50 | 1°43'21 | 7 8 8 | 3°44 | 15°34 | 3°48 | 3°56 | 26°24 | 25°53 | 6°46 | 18°36 | 23°14 | 24°27 | 20°29 | 12°14 | T 22 |
| W23 | 14 3 47 | 2°41'42 | 19°18 | 5°53 | 16°32 | 4°33 | 4° 1 | 26°19 | 25°54 | 6°46 | 18°37 | 23°D13 | 24°24 | 20°36 | 12°14 | W23 |
| T 24 | 14 7 44 | 3°40'01 | 1 II 18 | 8° 2 | 17°30 | 5°19 | 4° 5 | 26°14 | 25°54 | 6°46 | 18°38 | 23°13 | 24°21 | 20°42 | 12°13 | T 24 |
| F 25 | 14 11 40 | 4°38'17 | 13°11 | 10°11 | 18°29 | 6° 4 | 4°10 | 26°10 | 25°54 | 6°45 | 18°39 | 23°14 | 24°18 | 20°49 | 12°13 | F 25 |
| S 26 | 14 15 37 | 5°36'32 | 25° 0 | 12°19 | 19°29 | 6°49 | 4°15 | 26° 6 | 25°55 | 6°44 | 18°40 | 23°15 | 24°14 | 20°56 | 12°13 | S 26 |
| S 27 | 14 19 33 | 6°34'45 | 6949 | 14°27 | 20°28 | 7°34 | 4°19 | 26° 1 | 25°55 | 6°44 | 18°41 | 23°17 | 24°11 | 21° 2 | 12°12 | S 27 |
| M28 | 14 23 30 | 7°32'56 | 18°41 | 16°33 | 21°28 | 8°20 | 4°24 | 25°57 | 25°55 | 6°43 | 18°42 | 23°18 | 24° 8 | 21° 9 | 12°11 | M28 |
| T 29 | 14 27 26 | 8°31'05 | 0Ω41 | 18°38 | 22°28 | 9° 5 | 4°30 | 25°52 | 25°55 | <u>6</u> °43 | 18°43 | 23°19 | 24° 5 | 21°16 | 1 <u>2</u> °11 | T 29 |
| W30 | 14 31 23 | 9829'12 | 12 Ω 55 | 20841 | 23 米 29 | 9 ∺ 50 | 4 Ω 35 | 25 ≏ 48 | 25°R55 | 6 る 42 | 18 Ⅱ 44 | 23°R19 | 24M 2 | 21 Ⅱ 22 | 12 る 10 | W30 |

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| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)Å(| ¥ | В | u | ಬ | Ç | , к | Day |
|------|----------|------------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|---------------|----------------|----------------|-------|----------------|--------|------|
| T 1 | 14 35 19 | 10827'17 | 25 Ω 25 | 22842 | 24) 30 | 10 ∺ 35 | 4 Ω 41 | 25°R43 | 25°R55 | 6°R41 | 18 Ⅱ 46 | 23°R18 | 23M59 | 21 Ⅱ 29 | 12°R 9 | T 1 |
| F 2 | 14 39 16 | 11°25'20 | 8 m 18 | 24°41 | 25°31 | 11°21 | 4°46 | 25 ₽ 39 | 25 ろ 55 | 6 ප 41 | 18°47 | 23 M 17 | 23°55 | 21°36 | 12る8 | F 2 |
| S 3 | 14 43 13 | 12°23'21 | 21°34 | 26°38 | 26°33 | 12° 6 | 4°52 | 25°35 | 25°55 | 6°40 | 18°48 | 23°16 | 23°52 | 21°42 | 12° 7 | S 3 |
| S 4 | 14 47 9 | 13°21'20 | 5 ≙ 17 | 28°31 | 27°34 | 12°51 | 4°58 | 25°31 | 25°55 | 6°39 | 18°49 | 23°15 | 23°49 | 21°49 | 12° 6 | S 4 |
| M 5 | 14 51 6 | 14°19'17 | 19°24 | 0∏22 | 28°36 | 13°36 | 5° 4 | 25°26 | 25°54 | 6°38 | 18°50 | 23°14 | 23°46 | 21°56 | 12° 4 | M 5 |
| T 6 | 14 55 2 | 15°17'13 | 3 M .54 | 2°10 | 29°39 | 14°21 | 5°10 | 25°22 | 25°54 | 6°37 | 18°51 | 23°13 | 23°43 | 22° 2 | 12° 3 | T 6 |
| W 7 | 14 58 59 | 16°15'07 | 18°41 | 3°55 | 0 Υ 41 | 15° 6 | 5°17 | 25°18 | 25°54 | 6°37 | 18°53 | 23°D13 | 23°40 | 22° 9 | 12° 2 | W 7 |
| T 8 | 15 2 55 | 17°13'00 | 3 ∡ 37 | 5°37 | 1°44 | 15°51 | 5°23 | 25°14 | 25°54 | 6°36 | 18°54 | 23°13 | 23°36 | 22°16 | 12° 0 | T 8 |
| F 9 | 15 6 52 | 18°10'51 | 18°35 | 7°15 | 2°47 | 16°36 | 5°30 | 25°10 | 25°53 | 6°35 | 18°55 | 23°13 | 23°33 | 22°22 | 11°59 | F 9 |
| S 10 | 15 10 48 | 19° 8'41 | 3 ප 26 | 8°50 | 3°51 | 17°21 | 5°37 | 25° 6 | 25°53 | 6°34 | 18°56 | 23°13 | 23°30 | 22°29 | 11°57 | S 10 |
| S 11 | 15 14 45 | 20° 6'30 | 18° 5 | 10°22 | 4°54 | 18° 6 | 5°44 | 25° 2 | 25°52 | 6°33 | 18°58 | 23°14 | 23°27 | 22°36 | 11°55 | S 11 |
| M12 | 15 18 42 | 21° 4'17 | 2≈26 | 11°49 | 5°58 | 18°51 | 5°51 | 24°58 | 25°52 | 6°32 | 18°59 | 23°14 | 23°24 | 22°42 | 11°54 | M12 |
| T 13 | 15 22 38 | 22° 2'04 | 16°27 | 13°14 | 7° 2 | 19°36 | 5°58 | 24°54 | 25°51 | 6°31 | 19° 0 | 23°14 | 23°20 | 22°49 | 11°52 | T 13 |
| W14 | 15 26 35 | 22°59'49 | 0) ₹ 7 | 14°34 | 8° 6 | 20°21 | 6° 6 | 24°51 | 25°50 | 6°30 | 19° 1 | 23°14 | 23°17 | 22°55 | 11°50 | W14 |
| T 15 | 15 30 31 | 23°57'33 | 13°26 | 15°51 | 9°11 | 21° 6 | 6°13 | 24°47 | 25°50 | 6°29 | 19° 3 | 23°14 | 23°14 | 23° 2 | 11°48 | T 15 |
| F 16 | 15 34 28 | 24°55'16 | 26°26 | 17° 4 | 10°15 | 21°51 | 6°21 | 24°43 | 25°49 | 6°28 | 19° 4 | 23°14 | 23°11 | 23° 9 | 11°46 | F 16 |
| S 17 | 15 38 24 | 25°52'57 | 9Υ 9 | 18°14 | 11°20 | 22°36 | 6°28 | 24°40 | 25°48 | 6°27 | 19° 5 | 23°14 | 23° 8 | 23°15 | 11°44 | S 17 |
| S 18 | 15 42 21 | 26°50'38 | 21°38 | 19°19 | 12°25 | 23°20 | 6°36 | 24°36 | 25°47 | 6°25 | 19° 7 | 23°15 | 23° 5 | 23°22 | 11°42 | S 18 |
| M19 | 15 46 17 | 27°48'18 | 3 8 54 | 20°21 | 13°30 | 24° 5 | 6°44 | 24°33 | 25°46 | 6°24 | 19°8 | 23°15 | 23° 1 | 23°29 | 11°39 | M19 |
| T 20 | 15 50 14 | 28°45'56 | 16° 1 | 21°19 | 14°36 | 24°50 | 6°52 | 24°29 | 25°46 | 6°23 | 19° 9 | 23°15 | 22°58 | 23°35 | 11°37 | T 20 |
| W21 | 15 54 11 | 29°43'34 | 28° 0 | 22°12 | 15°41 | 25°35 | 7° 1 | 24°26 | 25°45 | 6°22 | 19°11 | 23°R15 | 22°55 | 23°42 | 11°35 | W21 |
| T 22 | 15 58 7 | 0 Ⅱ 41'10 | 9∏54 | 23° 2 | 16°47 | 26°19 | 7° 9 | 24°23 | 25°44 | 6°21 | 19°12 | 23°15 | 22°52 | 23°49 | 11°32 | T 22 |
| F 23 | 16 2 4 | 1°38'45 | 21°43 | 23°47 | 17°53 | 27° 4 | 7°17 | 24°20 | 25°42 | 6°19 | 19°13 | 23°14 | 22°49 | 23°55 | 11°30 | F 23 |
| S 24 | 16 6 0 | 2°36'19 | 3932 | 24°28 | 18°59 | 27°48 | 7°26 | 24°16 | 25°41 | 6°18 | 19°15 | 23°13 | 22°46 | 24° 2 | 11°27 | S 24 |
| S 25 | 16 9 57 | 3°33'52 | 15°21 | 25° 5 | 20° 5 | 28°33 | 7°35 | 24°13 | 25°40 | 6°17 | 19°16 | 23°12 | 22°42 | 24° 9 | 11°25 | S 25 |
| M26 | 16 13 53 | 4°31'23 | 27°15 | 25°37 | 21°11 | 29°17 | 7°44 | 24°11 | 25°39 | 6°16 | 19°17 | 23°10 | 22°39 | 24°15 | 11°22 | M26 |
| T 27 | 16 17 50 | 5°28'53 | 9 Ω 17 | 26° 5 | 22°18 | oΥ 2 | 7°52 | 24° 8 | 25°38 | 6°14 | 19°19 | 23° 9 | 22°36 | 24°22 | 11°19 | T 27 |
| W28 | 16 21 46 | 6°26'22 | 21°30 | 26°28 | 23°24 | 0°46 | 8° 1 | 24° 5 | 25°37 | 6°13 | 19°20 | 23° 8 | 22°33 | 24°29 | 11°17 | W28 |
| T 29 | 16 25 43 | 7°23'49 | 3 m 58 | 26°47 | 24°31 | 1°30 | 8°11 | 24° 2 | 25°35 | 6°12 | 19°22 | 23°D 7 | 22°30 | 24°35 | 11°14 | T 29 |
| F 30 | 16 29 40 | 8°21'15 | 16°46 | 27° 1 | 25°38 | 2°14 | 8°20 | 24° 0 | 25°34 | 6°10 | 19°23 | 23° 8 | 22°26 | 24°42 | 11°11 | F 30 |
| S 31 | 16 33 36 | 9 Ⅲ 18'40 | 29 m 57 | 27 I I1 | 26 Y 45 | 2 Υ 59 | 8Ω 29 | 23 ≙ 57 | 25 る 33 | 6 ප 9 | 19∏24 | 23M 8 | 22M23 | 24∏49 | 11る8 | S 31 |
| | | | | | | | | | | | | | | | | |

Delta T = 36.84 sec Greg. Calendar

JUNE 1659 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| ¥ | Р | ₽. | ß | Ç | ę, | Day |
|------|----------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|-----------------|-----------------|-------|---------------|------|
| S 1 | 16 37 33 | 10耳16′04 | 13 ≏ 33 | 27 Ⅱ 15 | 27 Y 52 | 3 Υ 43 | 8 Ω 39 | 23°R55 | 25°R31 | 6°R 7 | 19∏26 | 23M 9 | 22 M 20 | 24∏55 | 11°R 5 | S 1 |
| M 2 | 16 41 29 | 11°13'27 | 27°36 | 27°R16 | 28°59 | 4°27 | 8°48 | 23 ≏ 52 | 25 云 30 | 6 පි | 19°27 | 23°11 | 22°17 | 25° 2 | 11る 2 | M 2 |
| T 3 | 16 45 26 | 12°10'48 | 12 M 5 | 27°11 | 0 8 6 | 5°11 | 8°58 | 23°50 | 25°28 | 6° 5 | 19°29 | 23°12 | 22°14 | 25° 9 | 10°59 | T 3 |
| W 4 | 16 49 22 | 13° 8'09 | 26°56 | 27° 3 | 1°13 | 5°55 | 9° 7 | 23°48 | 25°27 | 6° 3 | 19°30 | 23°R12 | 22°11 | 25°15 | 10°56 | W 4 |
| T 5 | 16 53 19 | 14° 5'29 | 12 × 2 | 26°50 | 2°21 | 6°39 | 9°17 | 23°46 | 25°25 | 6° 2 | 19°31 | 23°11 | 22° 7 | 25°22 | 10°52 | T 5 |
| F 6 | 16 57 15 | 15° 2'48 | 27°14 | 26°33 | 3°29 | 7°22 | 9°27 | 23°44 | 25°23 | 6° 0 | 19°33 | 23° 9 | 22° 4 | 25°29 | 10°49 | F 6 |
| S 7 | 17 1 12 | 16° 0'06 | 12 る 24 | 26°13 | 4°36 | 8° 6 | 9°37 | 23°42 | 25°22 | 5°59 | 19°34 | 23° 7 | 22° 1 | 25°35 | 10°46 | S 7 |
| S 8 | 17 5 9 | 16°57'24 | 27°21 | 25°49 | 5°44 | 8°50 | 9°47 | 23°40 | 25°20 | 5°57 | 19°36 | 23° 4 | 21°58 | 25°42 | 10°43 | S 8 |
| M 9 | 17 9 5 | 17°54'41 | 11≈58 | 25°22 | 6°52 | 9°34 | 9°57 | 23°38 | 25°18 | 5°56 | 19°37 | 23° 1 | 21°55 | 25°49 | 10°39 | M 9 |
| T 10 | 17 13 2 | 18°51'58 | 26°10 | 24°53 | 8° 0 | 10°17 | 10° 8 | 23°36 | 25°17 | 5°54 | 19°39 | 22°58 | 21°52 | 25°56 | 10°36 | T 10 |
| W11 | 17 16 58 | 19°49'15 | 9) 55 | 24°22 | 9° 9 | 11° 1 | 10°18 | 23°35 | 25°15 | 5°53 | 19°40 | 22°57 | 21°48 | 26° 2 | 10°32 | W11 |
| T 12 | 17 20 55 | 20°46'31 | 23°14 | 23°49 | 10°17 | 11°44 | 10°28 | 23°33 | 25°13 | 5°51 | 19°41 | 22°D56 | 21°45 | 26° 9 | 10°29 | T 12 |
| F 13 | 17 24 51 | 21°43'47 | 6 Ƴ 9 | 23°15 | 11°25 | 12°28 | 10°39 | 23°32 | 25°11 | 5°49 | 19°43 | 22°57 | 21°42 | 26°16 | 10°25 | F 13 |
| S 14 | 17 28 48 | 22°41'03 | 18°44 | 22°41 | 12°34 | 13°11 | 10°50 | 23°31 | 25° 9 | 5°48 | 19°44 | 22°58 | 21°39 | 26°22 | 10°22 | S 14 |
| S 15 | 17 32 44 | 23°38'18 | 1 8 2 | 22° 7 | 13°42 | 13°54 | 11° 0 | 23°30 | 25° 7 | 5°46 | 19°46 | 23° 0 | 21°36 | 26°29 | 10°18 | S 15 |
| M16 | 17 36 41 | 24°35'33 | 13° 7 | 21°33 | 14°51 | 14°38 | 11°11 | 23°28 | 25° 5 | 5°45 | 19°47 | 23° 1 | 21°32 | 26°36 | 10°15 | M16 |
| T 17 | 17 40 38 | 25°32'49 | 25° 4 | 21° 1 | 16° 0 | 15°21 | 11°22 | 23°27 | 25° 3 | 5°43 | 19°48 | 23°R 2 | 21°29 | 26°42 | 10°11 | T 17 |
| W18 | 17 44 34 | 26°30'03 | 6 Ⅱ 56 | 20°31 | 17° 9 | 16° 4 | 11°33 | 23°27 | 25° 1 | 5°42 | 19°50 | 23° 1 | 21°26 | 26°49 | 10° 8 | W18 |
| T 19 | 17 48 31 | 27°27'18 | 18°44 | 20° 3 | 18°18 | 16°47 | 11°44 | 23°26 | 24°59 | 5°40 | 19°51 | 22°58 | 21°23 | 26°56 | 10° 4 | T 19 |
| F 20 | 17 52 27 | 28°24'32 | 0ഇ33 | 19°39 | 19°27 | 17°30 | 11°55 | 23°25 | 24°57 | 5°38 | 19°53 | 22°54 | 21°20 | 27° 2 | 10° 0 | F 20 |
| S 21 | 17 56 24 | 29°21'46 | 12°23 | 19°17 | 20°36 | 18°12 | 12° 6 | 23°24 | 24°55 | 5°37 | 19°54 | 22°48 | 21°17 | 27° 9 | 9°57 | S 21 |
| S 22 | 18 0 20 | 0919'00 | 24°16 | 18°59 | 21°45 | 18°55 | 12°17 | 23°24 | 24°53 | 5°35 | 19°55 | 22°42 | 21°13 | 27°16 | 9°53 | S 22 |
| M23 | 18 4 17 | 1°16'13 | 6 Ω 16 | 18°45 | 22°54 | 19°38 | 12°28 | 23°23 | 24°51 | 5°34 | 19°57 | 22°35 | 21°10 | 27°22 | 9°49 | M23 |
| T 24 | 18 8 13 | 2°13'26 | 18°23 | 18°36 | 24° 4 | 20°20 | 12°40 | 23°23 | 24°49 | 5°32 | 19°58 | 22°28 | 21° 7 | 27°29 | 9°45 | T 24 |
| W25 | 18 12 10 | 3°10'39 | 0 m /40 | 18°31 | 25°13 | 21° 3 | 12°51 | 23°23 | 24°47 | 5°30 | 20° 0 | 22°23 | 21° 4 | 27°36 | 9°42 | W25 |
| T 26 | 18 16 7 | 4° 7'51 | 13°10 | 18°D30 | 26°23 | 21°45 | 13° 3 | 23°23 | 24°45 | 5°29 | 20° 1 | 22°19 | 21° 1 | 27°42 | 9°38 | T 26 |
| F 27 | 18 20 3 | 5° 5'03 | 25°56 | 18°34 | 27°32 | 22°27 | 13°14 | 23°D23 | 24°42 | 5°27 | 20° 2 | 22°17 | 20°58 | 27°49 | 9°34 | F 27 |
| S 28 | 18 24 0 | 6° 2'14 | 9 º 2 | 18°44 | 28°42 | 23° 9 | 13°26 | 23°23 | 24°40 | 5°25 | 20° 4 | 22°D17 | 20°54 | 27°56 | 9°30 | S 28 |
| S 29 | 18 27 56 | 6°59'25 | 22°30 | 18°58 | 29°52 | 23°51 | 13°37 | 23°23 | 24°38 | 5°24 | 20° 5 | 22°18 | 20°51 | 28° 2 | 9°26 | S 29 |
| M30 | 18 31 53 | 7956'36 | 6M23 | 19 Ⅱ 17 | 1 II 2 | 24 Y 33 | 13 Ω 49 | 23 ॒ 23 | 24 궁 36 | 5 궁 22 | 20 I 7 | 22 M .19 | 20 M .48 | 28耳 9 | 9 ට 23 | M30 |

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|-------------|----------------------|----------------------|--------------------------|----------------|----------------|-----------------------|----------------|----------------|----------------|---------------|----------------|-----------------|-----------------|-----------------|---------------|-------------|
| T 1 | 18 35 49 | 8953'47 | 20 M 41 | 19 Ⅱ 41 | 2 Ⅱ 11 | 25 Υ 15 | 14 Ω 1 | 23 ≏ 24 | 24°R33 | 5°R21 | 20Ⅱ 8 | 22°R19 | 20 M 45 | 28 I I16 | 9°R19 | T 1 |
| W 2 | 18 39 46 | 9°50'57 | 5 ₹ 23 | 20°11 | 3°21 | 25°57 | 14°13 | 23°24 | 24 궁 31 | 5 궁 19 | 20° 9 | 22M19 | 20°42 | 28°22 | 9 궁 15 | W 2 |
| T 3 F 4 | 18 43 42 | 10°48'08 | 20°24 5 ♂ 36 | 20°45 21°24 | 4°31 | 26°39 27°20 | 14°25 14°36 | 23°25 23°26 | 24°29 24°26 | 5°17 5°16 | 20°11 20°12 | 22°16 22°12 | 20°38 20°35 | 28°29 28°36 | 9°11 9°8 | T 3 F 4 |
| F 4 S 5 | 18 47 39 18 51 36 | 11°45'18 12°42'29 | 20°50 | 21°24 22° 8 | 5°41 6°52 | 27°20 28° 2 | 14°36 | 23°26 | 24°24 | 5°14 | 20°12 20°13 | 22° 12 22° 5 | 20°33 20°32 | 28°42 | 9° 8 9° 4 | F 4 S 5 |
| | | | | | | - | _ | | | | | | | - | | |
| S 6 | 18 55 32 | 13°39'40 | 5 ≈ 55 | 22°57 | 8° 2 | 28°43 | 15° 0 | 23°27 | 24°22 | 5°13 | 20°15 | 21°58 | 20°29 | 28°49 | 9° 0 | S 6 |
| M 7 T 8 | 18 59 29 19 3 25 | 14°36'51 15°34'02 | 20°42 5) 4 | 23°51 24°50 | 9°12 10°23 | 29°24 0 8 5 | 15°13 15°25 | 23°28 23°29 | 24°19 24°17 | 5°11 5° 9 | 20°16 20°17 | 21°50 21°43 | 20°26 20°23 | 28°56 29° 2 | 8°56 8°53 | M 7 T 8 |
| W 9 | 19 7 22 | 15 34 02 16°31'14 | 18°56 | 24°50 25°53 | 10°23 | 0°46 | 15°23 | 23°30 | 24°17 | 5° 8 | 20°17 20°18 | 21°38 | 20°23 | 29° 2 | 8°49 | W 9 |
| T 10 | 19 11 18 | 17°28'27 | 2 Υ 20 | 27° 1 | 12°43 | 1°27 | 15°49 | 23°32 | 24°12 | 5° 6 | 20°20 | 21°35 | 20°16 | 29°16 | 8°45 | T 10 |
| F 11 | 19 15 15 | 18°25'40 | 15°16 | 28°14 | 13°54 | 2° 8 | 16° 1 | 23°33 | 24°10 | 5° 5 | 20°21 | 21°D34 | 20°13 | 29°22 | 8°41 | F 11 |
| S 12 | 19 19 11 | 19°22'54 | 27°50 | 29°31 | 15° 5 | 2°49 | 16°14 | 23°34 | 24° 7 | 5° 3 | 20°22 | 21°34 | 20°10 | 29°29 | 8°38 | S 12 |
| S 13 | 19 23 8 | 20°20'09 | 108 4 | 0952 | 16°15 | 3°29 | 16°26 | 23°36 | 24° 5 | 5° 2 | 20°24 | 21°35 | 20° 7 | 29°36 | 8°34 | S 13 |
| M14 | 19 27 5 | 21°17'24 | 22° 5 | 2°18 | 17°26 | 4°10 | 16°38 | 23°38 | 24° 3 | 5° 0 | 20°25 | 21°R35 | 20° 4 | 29°42 | 8°30 | M14 |
| T 15 | 19 31 1 | 22°14'40 | 3耳58 | 3°48 | 18°37 | 4°50 | 16°51 | 23°39 | 24° 0 | 4°58 | 20°26 | 21°35 | 20° 0 | 29°49 | 8°27 | T 15 |
| W16 | 19 34 58 | 23°11'57 | 15°46 | 5°22 | 19°48 | 5°30 | 17° 3 | 23°41 | 23°58 | 4°57 | 20°27 | 21°32 | 19°57 | 29°56 | 8°23 | W16 |
| T 17 | 19 38 54 | 24° 9'14 | 27°34 | 7° 0 | 20°59 | 6°10 | 17°16 | 23°43 | 23°55 | 4°55 | 20°29 | 21°26 | 19°54 | 099 2 | 8°20 | T 17 |
| F 18 | 19 42 51 | 25° 6'33 | 99524 | 8°42 | 22°10 | 6°50 | 17°28 | 23°45 | 23°53 | 4°54 | 20°30 | 21°19 | 19°51 | 0° 9 | 8°16 | F 18 |
| S 19 | 19 46 47 | 26° 3'51 | 21°19 | 10°27 | 23°21 | 7°30 | 17°41 | 23°47 | 23°51 | 4°52 | 20°31 | 21° 8 | 19°48 | 0°16 | 8°13 | S 19 |
| S 20 | 19 50 44 | 27° 1'11 | $3\Omega 20$ | 12°15 | 24°32 | 8°10 | 17°53 | 23°50 | 23°48 | 4°51 | 20°32 | 20°57 | 19°44 | 0°22 | 8° 9 | S 20 |
| M21 | 19 54 41 | 27°58'31 | 15°29 | 14° 7 | 25°44 | 8°49 | 18° 6 | 23°52 | 23°46 | 4°49 | 20°33 | 20°45 | 19°41 | 0°29 | 8° 6 | M21 |
| T 22 W23 | 19 58 37 20 2 34 | 28°55'52 29°53'13 | 27°47 10 m)14 | 16° 2 17°59 | 26°55 28° 6 | 9°29 10°8 | 18°19 18°32 | 23°54 23°57 | 23°43 23°41 | 4°48 4°47 | 20°34 20°36 | 20°33 20°23 | 19°38 19°35 | 0°36 0°43 | 8° 2 7°59 | T 22 W23 |
| T 24 | 20 2 34 20 6 30 | $0\Omega_{50'35}$ | 22°53 | 17 39 19°58 | 29°18 | 10° 8 | 18°44 | 23°59 | 23°39 | 4°45 | 20°37 | 20°16 | 19°32 | 0°49 | 7°55 | T 24 |
| F 25 | 20 10 27 | 1°47'57 | 5 ₽ 45 | 21°59 | 0929 | 11°26 | 18°57 | 24° 2 | 23°36 | 4°44 | 20°38 | 20°10 | 19°29 | 0°56 | 7°52 | F 25 |
| S 26 | 20 14 23 | 2°45'20 | 18°53 | 24° 1 | 1°41 | 12° 4 | 19°10 | 24° 5 | 23°34 | 4°42 | 20°39 | 20° 8 | 19°25 | 1° 3 | 7°49 | S 26 |
| S 27 | 20 18 20 | 3°42'44 | 2 M .17 | 26° 5 | 2°52 | 12°43 | 19°23 | 24° 8 | 23°32 | 4°41 | 20°40 | 20°D 7 | 19°22 | 1° 9 | 7°46 | S 27 |
| M28 | 20 22 16 | 4°40'08 | 16° 2 | 28° 9 | 4° 4 | 13°21 | 19°35 | 24°11 | 23°29 | 4°40 | 20°41 | 20°R 7 | 19°19 | 1°16 | 7°43 | M28 |
| T 29 | 20 26 13 | 5°37'33 | 0 x 7 | 0Ω14 | 5°15 | 13°59 | 19°48 | 24°14 | 23°27 | 4°38 | 20°42 | 20° 7 | 19°16 | 1°23 | 7°39 | T 29 |
| W30 | 20 30 9 | 6°34'58 | 14°34 | 2°20 | 6°27 | 14°38 | 20° 1 | 24°17 | 23°25 | 4°37 | 20°43 | 20° 5 | 19°13 | 1°29 | 7°36 | W30 |
| T 31 | 20 34 6 | $7\Omega_{32'25}$ | 29 × 18 | 4 Ω 25 | 7939 | 15 8 15 | 20 Ω 14 | 24 Ω 20 | 23 る 22 | 4 궁 36 | 20∏44 | 20M 1 | 19 M .10 | 1936 | 7 궁 33 | T 31 |

Delta T = 36.73 sec Greg.

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|------|----------|------------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|-----------------|-----------------|-------|---------------|------|
| Day | Sid.t | 0 | D | ğ | Q. | ♂ | 4 | ħ |)f(| Ħ | В | u | v | Ç | ę, | Day |
| F 1 | 20 38 3 | 8 Ω 29'52 | 14 궁 16 | 6 Ω 30 | 8 9 51 | 15 8 53 | 20 Ω 27 | 24 ₾ 23 | 23°R20 | 4°R34 | 20∏45 | 19°R54 | 19 M 6 | 19543 | 7°R30 | F 1 |
| S 2 | 20 41 59 | 9°27'20 | 29°18 | 8°34 | 10° 3 | 16°31 | 20°40 | 24°27 | 23 る 18 | 4 궁 33 | 20°46 | 19 M .45 | 19° 3 | 1°49 | 7 る 27 | S 2 |
| S 3 | 20 45 56 | 10°24'49 | 14≈16 | 10°37 | 11°15 | 17° 8 | 20°53 | 24°30 | 23°15 | 4°32 | 20°47 | 19°35 | 19° 0 | 1°56 | 7°25 | S 3 |
| M 4 | 20 49 52 | 11°22'18 | 29° 0 | 12°40 | 12°27 | 17°45 | 21° 6 | 24°34 | 23°13 | 4°31 | 20°48 | 19°24 | 18°57 | 2° 3 | 7°22 | M 4 |
| T 5 | 20 53 49 | 12°19'50 | 13 米 22 | 14°42 | 13°39 | 18°22 | 21°19 | 24°37 | 23°11 | 4°29 | 20°49 | 19°14 | 18°54 | 2° 9 | 7°19 | T 5 |
| W 6 | 20 57 45 | 13°17'22 | 27°18 | 16°42 | 14°51 | 18°59 | 21°32 | 24°41 | 23° 9 | 4°28 | 20°50 | 19° 6 | 18°50 | 2°16 | 7°16 | W 6 |
| T 7 | 21 1 42 | 14°14'56 | 10 Y 45 | 18°42 | 16° 3 | 19°36 | 21°45 | 24°45 | 23° 6 | 4°27 | 20°51 | 19° 0 | 18°47 | 2°23 | 7°14 | T 7 |
| F 8 | 21 5 38 | 15°12'31 | 23°44 | 20°40 | 17°16 | 20°12 | 21°58 | 24°48 | 23° 4 | 4°26 | 20°52 | 18°57 | 18°44 | 2°29 | 7°11 | F 8 |
| S 9 | 21 9 35 | 16°10'07 | 6820 | 22°36 | 18°28 | 20°49 | 22°11 | 24°52 | 23° 2 | 4°25 | 20°53 | 18°56 | 18°41 | 2°36 | 7° 9 | S 9 |
| S 10 | 21 13 32 | 17° 7'46 | 18°35 | 24°32 | 19°40 | 21°25 | 22°24 | 24°56 | 23° 0 | 4°24 | 20°54 | 18°56 | 18°38 | 2°43 | 7° 6 | S 10 |
| M11 | 21 17 28 | 18° 5'26 | 0 Ⅲ 37 | 26°25 | 20°53 | 22° 1 | 22°37 | 25° 1 | 22°58 | 4°23 | 20°55 | 18°55 | 18°35 | 2°49 | 7° 4 | M11 |
| T 12 | 21 21 25 | 19° 3'07 | 12°29 | 28°18 | 22° 5 | 22°36 | 22°50 | 25° 5 | 22°56 | 4°22 | 20°55 | 18°54 | 18°31 | 2°56 | 7° 1 | T 12 |
| W13 | 21 25 21 | 20° 0'50 | 24°18 | 0 m) 9 | 23°18 | 23°12 | 23° 3 | 25° 9 | 22°54 | 4°21 | 20°56 | 18°51 | 18°28 | 3° 3 | 6°59 | W13 |
| T 14 | 21 29 18 | 20°58'34 | 6 9 7 | 1°59 | 24°31 | 23°47 | 23°16 | 25°13 | 22°52 | 4°20 | 20°57 | 18°45 | 18°25 | 3°10 | 6°57 | T 14 |
| F 15 | 21 33 14 | 21°56'21 | 18° 1 | 3°47 | 25°43 | 24°22 | 23°29 | 25°18 | 22°50 | 4°19 | 20°58 | 18°36 | 18°22 | 3°16 | 6°55 | F 15 |
| S 16 | 21 37 11 | 22°54'08 | 0 Ω 2 | 5°34 | 26°56 | 24°57 | 23°42 | 25°22 | 22°48 | 4°18 | 20°59 | 18°24 | 18°19 | 3°23 | 6°53 | S 16 |
| S 17 | 21 41 7 | 23°51'57 | 12°13 | 7°19 | 28° 9 | 25°31 | 23°56 | 25°27 | 22°46 | 4°17 | 20°59 | 18°12 | 18°15 | 3°30 | 6°51 | S 17 |
| M18 | 21 45 4 | 24°49'48 | 24°35 | 9° 3 | 29°22 | 26° 5 | 24° 9 | 25°31 | 22°44 | 4°16 | 21° 0 | 17°58 | 18°12 | 3°36 | 6°49 | M18 |
| T 19 | 21 49 1 | 25°47'40 | 7 m 8 | 10°46 | 0 Ω 34 | 26°40 | 24°22 | 25°36 | 22°42 | 4°15 | 21° 1 | 17°45 | 18° 9 | 3°43 | 6°47 | T 19 |
| W20 | 21 52 57 | 26°45'33 | 19°52 | 12°27 | 1°47 | 27°13 | 24°35 | 25°41 | 22°40 | 4°14 | 21° 2 | 17°34 | 18° 6 | 3°50 | 6°45 | W20 |
| T 21 | 21 56 54 | 27°43'28 | 2 ≏ 48 | 14° 7 | 3° 0 | 27°47 | 24°48 | 25°46 | 22°38 | 4°13 | 21° 2 | 17°25 | 18° 3 | 3°56 | 6°43 | T 21 |
| F 22 | 22 0 50 | 28°41'24 | 15°54 | 15°46 | 4°13 | 28°20 | 25° 1 | 25°51 | 22°36 | 4°13 | 21° 3 | 17°19 | 18° 0 | 4° 3 | 6°41 | F 22 |
| S 23 | 22 4 47 | 29°39'22 | 29°13 | 17°23 | 5°27 | 28°53 | 25°14 | 25°56 | 22°35 | 4°12 | 21° 3 | 17°16 | 17°56 | 4°10 | 6°40 | S 23 |
| S 24 | 22 8 43 | 0 Mp 37'21 | 12 M 43 | 18°59 | 6°40 | 29°26 | 25°27 | 26° 1 | 22°33 | 4°11 | 21° 4 | 17°D15 | 17°53 | 4°16 | 6°38 | S 24 |
| M25 | 22 12 40 | 1°35'21 | 26°28 | 20°34 | 7°53 | 29°58 | 25°40 | 26° 6 | 22°31 | 4°10 | 21° 5 | 17°R15 | 17°50 | 4°23 | 6°37 | M25 |
| T 26 | 22 16 36 | 2°33'23 | 10 × 126 | 22° 7 | 9° 6 | 0 Ⅲ 31 | 25°53 | 26°11 | 22°30 | 4°10 | 21° 5 | 17°15 | 17°47 | 4°30 | 6°36 | T 26 |
| W27 | 22 20 33 | 3°31'26 | 24°39 | 23°40 | 10°19 | 1° 3 | 26° 6 | 26°16 | 22°28 | 4° 9 | 21° 6 | 17°13 | 17°44 | 4°36 | 6°34 | W27 |
| T 28 | 22 24 30 | 4°29'30 | 9 ට 5 | 25°10 | 11°33 | 1°34 | 26°19 | 26°21 | 22°26 | 4° 9 | 21° 6 | 17°10 | 17°41 | 4°43 | 6°33 | T 28 |
| F 29 | 22 28 26 | 5°27'36 | 23°41 | 26°40 | 12°46 | 2° 6 | 26°32 | 26°27 | 22°25 | 4° 8 | 21° 7 | 17° 3 | 17°37 | 4°50 | 6°32 | F 29 |
| S 30 | 22 32 23 | 6°25'43 | 8≈20 | 28° 8 | 14° 0 | 2°37 | 26°45 | 26°32 | 22°23 | 4° 7 | 21° 7 | 16°55 | 17°34 | 4°56 | 6°31 | S 30 |
| S 31 | 22 36 19 | 7 m 23'52 | 22≈57 | 29 m 35 | 15 Ω 13 | 3 I 8 | 26⋒58 | 26 ₽ 38 | 22 る 22 | 4 ප 7 | 21 I 8 | 16 M 45 | 17 M J31 | 599 3 | 6 ප 30 | S 31 |

Delta T = 36.67 sec

SEPTEMBER 1659 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | Q | ð | 4 | ħ |)∤(| ¥ | В | ß | v | ţ | o k | Day |
|------|----------|------------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|--------------|-----------------|-----------------|----------------|-------|---------------|------|
| M 1 | 22 40 16 | 8 m/ 22'02 | 7) (24 | 1₽ 1 | 16 Ω 27 | 3耳38 | 27 Ω 11 | 26 ₽ 43 | 22°R20 | 4°R 6 | 21 I 8 | 16°R34 | 17 M 28 | 59910 | 6°R29 | M 1 |
| T 2 | 22 44 12 | 9°20'14 | 21°34 | 2°25 | 17°40 | 4° 8 | 27°24 | 26°49 | 22 る 19 | 4 る 6 | 21° 9 | 16ML24 | 17°25 | 5°17 | 6 る 28 | T 2 |
| W 3 | 22 48 9 | 10°18'28 | 5 Υ 22 | 3°48 | 18°54 | 4°38 | 27°37 | 26°54 | 22°18 | 4° 6 | 21° 9 | 16°16 | 17°21 | 5°23 | 6°27 | W 3 |
| T 4 | 22 52 5 | 11°16'44 | 18°45 | 5° 9 | 20° 7 | 5° 8 | 27°50 | 27° 0 | 22°16 | 4° 5 | 21°10 | 16°11 | 17°18 | 5°30 | 6°27 | T 4 |
| F 5 | 22 56 2 | 12°15'02 | 1844 | 6°29 | 21°21 | 5°37 | 28° 3 | 27° 6 | 22°15 | 4° 5 | 21°10 | 16° 8 | 17°15 | 5°37 | 6°26 | F 5 |
| S 6 | 22 59 59 | 13°13'22 | 14°21 | 7°48 | 22°35 | 6° 6 | 28°16 | 27°12 | 22°14 | 4° 4 | 21°10 | 16°D 7 | 17°12 | 5°43 | 6°26 | S 6 |
| S 7 | 23 3 55 | 14°11'44 | 26°38 | 9° 5 | 23°49 | 6°34 | 28°28 | 27°18 | 22°13 | 4° 4 | 21°11 | 16° 7 | 17° 9 | 5°50 | 6°25 | S 7 |
| M 8 | 23 7 52 | 15°10'08 | 8 Ⅱ 41 | 10°20 | 25° 3 | 7° 2 | 28°41 | 27°24 | 22°11 | 4° 4 | 21°11 | 16° 8 | 17° 6 | 5°57 | 6°25 | M 8 |
| T 9 | 23 11 48 | 16° 8'34 | 20°35 | 11°34 | 26°16 | 7°30 | 28°54 | 27°30 | 22°10 | 4° 4 | 21°11 | 16°R 8 | 17° 2 | 6° 3 | 6°25 | T 9 |
| W10 | 23 15 45 | 17° 7'02 | 2925 | 12°46 | 27°30 | 7°57 | 29° 7 | 27°36 | 22° 9 | 4° 3 | 21°11 | 16° 7 | 16°59 | 6°10 | 6°24 | W10 |
| T 11 | 23 19 41 | 18° 5'33 | 14°17 | 13°56 | 28°44 | 8°25 | 29°19 | 27°42 | 22° 8 | 4° 3 | 21°12 | 16° 3 | 16°56 | 6°17 | 6°24 | T 11 |
| F 12 | 23 23 38 | 19° 4'06 | 26°14 | 15° 5 | 29°58 | 8°51 | 29°32 | 27°48 | 22° 7 | 4° 3 | 21°12 | 15°57 | 16°53 | 6°23 | 6°D24 | F 12 |
| S 13 | 23 27 34 | 20° 2'41 | 8 Ω 21 | 16°11 | 1 Mp 12 | 9°17 | 29°45 | 27°54 | 22° 6 | 4° 3 | 21°12 | 15°50 | 16°50 | 6°30 | 6°24 | S 13 |
| S 14 | 23 31 31 | 21° 1'18 | 20°41 | 17°15 | 2°27 | 9°43 | 29°57 | 28° 0 | 22° 5 | 4° 3 | 21°12 | 15°40 | 16°47 | 6°37 | 6°24 | S 14 |
| M15 | 23 35 28 | 21°59'57 | 3 m 15 | 18°17 | 3°41 | 10° 9 | 0 m 10 | 28° 6 | 22° 5 | 4° 3 | 21°12 | 15°30 | 16°43 | 6°43 | 6°25 | M15 |
| T 16 | 23 39 24 | 22°58'38 | 16° 4 | 19°16 | 4°55 | 10°34 | 0°23 | 28°13 | 22° 4 | 4°D 3 | 21°12 | 15°21 | 16°40 | 6°50 | 6°25 | T 16 |
| W17 | 23 43 21 | 23°57'21 | 29° 7 | 20°13 | 6° 9 | 10°58 | 0°35 | 28°19 | 22° 3 | 4° 3 | 21°13 | 15°12 | 16°37 | 6°57 | 6°25 | W17 |
| T 18 | 23 47 17 | 24°56'05 | 12 ≏ 25 | 21° 7 | 7°23 | 11°22 | 0°48 | 28°25 | 22° 2 | 4° 3 | 21°13 | 15° 6 | 16°34 | 7° 4 | 6°26 | T 18 |
| F 19 | 23 51 14 | 25°54'52 | 25°54 | 21°58 | 8°38 | 11°46 | 1° 0 | 28°32 | 22° 2 | 4° 3 | 21°13 | 15° 2 | 16°31 | 7°10 | 6°26 | F 19 |
| S 20 | 23 55 10 | 26°53'41 | 9 M .33 | 22°45 | 9°52 | 12° 9 | 1°12 | 28°38 | 22° 1 | 4° 3 | 21°13 | 15°D 1 | 16°27 | 7°17 | 6°27 | S 20 |
| S 21 | 23 59 7 | 27°52'32 | 23°22 | 23°29 | 11° 7 | 12°32 | 1°25 | 28°45 | 22° 0 | 4° 3 | 21°R13 | 15° 1 | 16°24 | 7°24 | 6°28 | S 21 |
| M22 | 0 3 3 | 28°51'24 | 7 , ₹18 | 24° 9 | 12°21 | 12°54 | 1°37 | 28°51 | 22° 0 | 4° 4 | 21°13 | 15° 2 | 16°21 | 7°30 | 6°28 | M22 |
| T 23 | 0 7 0 | 29°50'18 | 21°21 | 24°45 | 13°35 | 13°16 | 1°49 | 28°58 | 22° 0 | 4° 4 | 21°13 | 15° 3 | 16°18 | 7°37 | 6°29 | T 23 |
| W24 | 0 10 56 | 0 ≏ 49'14 | 5 3 29 | 25°16 | 14°50 | 13°37 | 2° 2 | 29° 5 | 21°59 | 4° 4 | 21°13 | 15°R 3 | 16°15 | 7°44 | 6°30 | W24 |
| T 25 | 0 14 53 | 1°48'12 | 19°42 | 25°42 | 16° 4 | 13°58 | 2°14 | 29°11 | 21°59 | 4° 4 | 21°13 | 15° 2 | 16°12 | 7°50 | 6°31 | T 25 |
| F 26 | 0 18 50 | 2°47'11 | 3≈57 | 26° 3 | 17°19 | 14°18 | 2°26 | 29°18 | 21°58 | 4° 5 | 21°12 | 14°58 | 16° 8 | 7°57 | 6°32 | F 26 |
| S 27 | 0 22 46 | 3°46'12 | 18°11 | 26°18 | 18°33 | 14°38 | 2°38 | 29°25 | 21°58 | 4° 5 | 21°12 | 14°53 | 16° 5 | 8° 4 | 6°34 | S 27 |
| S 28 | 0 26 43 | 4°45'15 | 2) 20 | 26°27 | 19°48 | 14°57 | 2°50 | 29°32 | 21°58 | 4° 5 | 21°12 | 14°47 | 16° 2 | 8°10 | 6°35 | S 28 |
| M29 | 0 30 39 | 5°44'19 | 16°20 | 26°R29 | 21° 3 | 15°15 | 3° 2 | 29°38 | 21°58 | 4° 6 | 21°12 | 14°41 | 15°59 | 8°17 | 6°36 | M29 |
| T 30 | 0 34 36 | 6 ₽ 43'26 | 0 Υ 7 | 26 ≏ 24 | 22 Mp 17 | 15 Ⅱ 34 | 3 m) 14 | 29 ≏ 45 | 21 る 58 | 4පි 6 | 21 I I12 | 14 M .35 | 15 M 56 | 89524 | 6 ප 38 | T 30 |

Delta T = 36.61 sec

Greg. Calendar

OCTOBER 1659 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)Å(| ¥ | В | U | v | Ç | ę, | Day |
|------|---------|------------------|------------------|----------------|--------------|----------------|----------------|----------------|----------------|---------------|-----------------|----------------|----------------|-------|---------------|------|
| W 1 | 0 38 32 | 7 ₽ 42'34 | 13 Y 36 | 26°R12 | 23 Mp 32 | 15 Ⅱ 51 | 3 Mp 26 | 29 ≏ 52 | 21°R58 | 4궁 7 | 21°R12 | 14°R30 | 15 M 52 | 8931 | 6 ප 39 | W 1 |
| T 2 | 0 42 29 | 8°41'45 | 26°47 | 25 ≏ 52 | 24°47 | 16° 8 | 3°37 | 29°59 | 21°D58 | 4° 7 | 21 I I11 | 14 M 27 | 15°49 | 8°37 | 6°41 | T 2 |
| F 3 | 0 46 25 | 9°40'58 | 9 8 38 | 25°24 | 26° 2 | 16°24 | 3°49 | OM 6 | 21 る 58 | 4° 8 | 21°11 | 14°D26 | 15°46 | 8°44 | 6°42 | F 3 |
| S 4 | 0 50 22 | 10°40'13 | 22°11 | 24°47 | 27°16 | 16°40 | 4° 1 | 0°13 | 21°58 | 4° 8 | 21°11 | 14°26 | 15°43 | 8°51 | 6°44 | S 4 |
| S 5 | 0 54 19 | 11°39'30 | 4 Ⅲ 27 | 24° 3 | 28°31 | 16°55 | 4°13 | 0°20 | 21°58 | 4° 9 | 21°11 | 14°27 | 15°40 | 8°57 | 6°46 | S 5 |
| M 6 | 0 58 15 | 12°38'50 | 16°31 | 23°11 | 29°46 | 17° 9 | 4°24 | 0°27 | 21°58 | 4°10 | 21°10 | 14°29 | 15°37 | 9° 4 | 6°48 | M 6 |
| T 7 | 1 2 12 | 13°38'12 | 28°26 | 22°13 | 1₽ 1 | 17°23 | 4°36 | 0°34 | 21°58 | 4°10 | 21°10 | 14°31 | 15°33 | 9°11 | 6°50 | T 7 |
| W 8 | 1 6 8 | 14°37'36 | 109517 | 21° 8 | 2°16 | 17°36 | 4°47 | 0°41 | 21°59 | 4°11 | 21°10 | 14°R31 | 15°30 | 9°17 | 6°52 | W 8 |
| T 9 | 1 10 5 | 15°37'03 | 22°10 | 19°59 | 3°31 | 17°48 | 4°58 | 0°48 | 21°59 | 4°12 | 21° 9 | 14°31 | 15°27 | 9°24 | 6°54 | T 9 |
| F 10 | 1 14 1 | 16°36'31 | 4 Ω 8 | 18°47 | 4°46 | 18° 0 | 5°10 | 0°55 | 22° 0 | 4°13 | 21° 9 | 14°30 | 15°24 | 9°31 | 6°56 | F 10 |
| S 11 | 1 17 58 | 17°36'02 | 16°17 | 17°34 | 6° 1 | 18°11 | 5°21 | 1° 2 | 22° 0 | 4°13 | 21° 8 | 14°27 | 15°21 | 9°38 | 6°59 | S 11 |
| S 12 | 1 21 54 | 18°35'36 | 28°40 | 16°21 | 7°16 | 18°21 | 5°32 | 1° 9 | 22° 0 | 4°14 | 21° 8 | 14°24 | 15°18 | 9°44 | 7° 1 | S 12 |
| M13 | 1 25 51 | 19°35'11 | 11 m) 21 | 15°12 | 8°31 | 18°31 | 5°43 | 1°16 | 22° 1 | 4°15 | 21° 8 | 14°20 | 15°14 | 9°51 | 7° 3 | M13 |
| T 14 | 1 29 48 | 20°34'49 | 24°21 | 14° 8 | 9°46 | 18°40 | 5°54 | 1°23 | 22° 2 | 4°16 | 21° 7 | 14°16 | 15°11 | 9°58 | 7° 6 | T 14 |
| W15 | 1 33 44 | 21°34'29 | 7 ≙ 41 | 13°12 | 11° 1 | 18°48 | 6° 5 | 1°30 | 22° 2 | 4°17 | 21° 7 | 14°13 | 15° 8 | 10° 4 | 7° 8 | W15 |
| T 16 | 1 37 41 | 22°34'11 | 21°19 | 12°23 | 12°16 | 18°55 | 6°16 | 1°38 | 22° 3 | 4°18 | 21° 6 | 14°10 | 15° 5 | 10°11 | 7°11 | T 16 |
| F 17 | 1 41 37 | 23°33'55 | 5 M _13 | 11°45 | 13°31 | 19° 1 | 6°27 | 1°45 | 22° 4 | 4°19 | 21° 5 | 14° 9 | 15° 2 | 10°18 | 7°14 | F 17 |
| S 18 | 1 45 34 | 24°33'41 | 19°20 | 11°18 | 14°46 | 19° 7 | 6°37 | 1°52 | 22° 5 | 4°20 | 21° 5 | 14°D 9 | 14°58 | 10°24 | 7°17 | S 18 |
| S 19 | 1 49 30 | 25°33'29 | 3 ₹ 35 | 11° 2 | 16° 1 | 19°12 | 6°48 | 1°59 | 22° 5 | 4°21 | 21° 4 | 14°10 | 14°55 | 10°31 | 7°20 | S 19 |
| M20 | 1 53 27 | 26°33'19 | 17°55 | 10°D57 | 17°16 | 19°16 | 6°58 | 2° 6 | 22° 6 | 4°22 | 21° 4 | 14°11 | 14°52 | 10°38 | 7°22 | M20 |
| T 21 | 1 57 23 | 27°33'10 | 2 る 14 | 11° 3 | 18°31 | 19°19 | 7° 9 | 2°13 | 22° 7 | 4°23 | 21° 3 | 14°12 | 14°49 | 10°44 | 7°26 | T 21 |
| W22 | 2 1 20 | 28°33'03 | 16°31 | 11°20 | 19°47 | 19°22 | 7°19 | 2°21 | 22° 8 | 4°24 | 21° 2 | 14°13 | 14°46 | 10°51 | 7°29 | W22 |
| T 23 | 2 5 17 | 29°32'58 | 0≈43 | 11°47 | 21° 2 | 19°23 | 7°29 | 2°28 | 22° 9 | 4°26 | 21° 2 | 14°R13 | 14°43 | 10°58 | 7°32 | T 23 |
| F 24 | 2 9 13 | 0MJ32'54 | 14°46 | 12°24 | 22°17 | 19°R24 | 7°39 | 2°35 | 22°11 | 4°27 | 21° 1 | 14°13 | 14°39 | 11° 5 | 7°35 | F 24 |
| S 25 | 2 13 10 | 1°32'52 | 28°41 | 13° 9 | 23°32 | 19°24 | 7°49 | 2°42 | 22°12 | 4°28 | 21° 0 | 14°12 | 14°36 | 11°11 | 7°38 | S 25 |
| S 26 | 2 17 6 | 2°32'52 | 12) 25 | 14° 2 | 24°48 | 19°23 | 7°59 | 2°50 | 22°13 | 4°29 | 21° 0 | 14°10 | 14°33 | 11°18 | 7°42 | S 26 |
| M27 | 2 21 3 | 3°32'53 | 25°57 | 15° 1 | 26° 3 | 19°21 | 8° 9 | 2°57 | 22°14 | 4°31 | 20°59 | 14° 9 | 14°30 | 11°25 | 7°45 | M27 |
| T 28 | 2 24 59 | 4°32'56 | 9 Υ 16 | 16° 6 | 27°18 | 19°18 | 8°19 | 3° 4 | 22°15 | 4°32 | 20°58 | 14° 8 | 14°27 | 11°31 | 7°48 | T 28 |
| W29 | 2 28 56 | 5°33'00 | 22°22 | 17°17 | 28°33 | 19°14 | 8°29 | 3°11 | 22°17 | 4°33 | 20°57 | 14° 7 | 14°23 | 11°38 | 7°52 | W29 |
| T 30 | 2 32 52 | 6°33'07 | 5 8 13 | 18°32 | 29°49 | 19°10 | 8°38 | 3°18 | 22°18 | 4°35 | 20°57 | 14° 6 | 14°20 | 11°45 | 7°56 | T 30 |
| F 31 | 2 36 49 | 7 M 33'15 | 17 8 50 | 19 ≏ 51 | 1 m 4 | 19Ⅱ 4 | 8 M)47 | 3M26 | 22る20 | 4 궁 36 | 20耳56 | 14°D 6 | 14 M J7 | 11951 | 7 云 59 | F 31 |

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| S 1 | 2 40 45 | 8M33'25 | 0 П 13 | 21 ≏ 13 | 2 M .19 | 18°R58 | 8 m 57 | 3 M .33 | 22 පි 21 | 4 궁 38 | 20°R55 | 14M 6 | 14 M .14 | 119558 | 8 궁 3 | S 1 |
| S 2 M 3 T 4 W 5 T 6 F 7 S 8 | 2 44 42 2 48 39 2 52 35 2 56 32 3 0 28 3 4 25 3 8 21 | 9°33'37 10°33'51 11°34'07 12°34'25 13°34'45 14°35'07 15°35'30 | 12°25 24°26 6©21 18°12 0\$\Omega\$ 3 12° 0 24° 7 | 22°37 24° 4 25°33 27° 4 28°35 0M 8 1°41 | 3°35 4°50 6° 5 7°21 8°36 9°51 11° 7 | 18 II 51 18°43 18°34 18°24 18°14 18° 2 17°50 | 9° 6 9°15 9°24 9°33 9°42 9°50 9°59 | 3°40 3°47 3°54 4° 2 4° 9 4°16 4°23 | 22°23 22°24 22°26 22°28 22°29 22°31 22°33 | 4°39 4°41 4°42 4°44 4°45 4°47 4°48 | 20II54 20°53 20°53 20°52 20°51 20°50 20°49 | 14° 7 14° 7 14° 8 14° 8 14° 8 14° 8 | 14°11 14° 8 14° 4 14° 1 13°58 13°55 13°52 | 12° 5 12°12 12°18 12°25 12°32 12°38 12°45 | 8° 7 8°11 8°15 8°19 8°23 8°27 8°31 | S 2 M 3 T 4 W 5 T 6 F 7 S 8 |
| S 9 M10 T 11 W12 T 13 F 14 S 15 | 3 12 18 3 16 14 3 20 11 3 24 8 3 28 4 3 32 1 3 35 57 | 16°35'56 17°36'24 18°36'53 19°37'24 20°37'57 21°38'32 22°39'08 | 6 th 28 19° 8 2 | 3°16 4°50 6°25 8° 0 9°36 11°11 12°46 | 12°22 13°38 14°53 16° 8 17°24 18°39 19°55 | 17°37 17°23 17° 8 16°52 16°36 16°19 16° 1 | 10° 7 10°16 10°24 10°32 10°40 10°48 10°55 | 4°30 4°37 4°44 4°51 4°59 5° 6 5°13 | 22°35 22°37 22°39 22°41 22°43 22°45 22°47 | 4°50 4°52 4°53 4°55 4°57 4°59 5° 0 | 20°48 20°47 20°46 20°45 20°44 20°43 20°42 | 14° 8 14° 8 14° 9 14° 9 14°10 14°R10 14°10 | 13°49 13°45 13°42 13°39 13°36 13°33 13°29 | 12°52 12°59 13° 5 13°12 13°19 13°25 13°32 | 8°35 8°39 8°43 8°48 8°52 8°57 9° 1 | S 9 M10 T 11 W12 T 13 F 14 S 15 |
| S 16 M17 T 18 W19 T 20 F 21 S 22 | 3 39 54 3 43 50 3 47 47 3 51 43 3 55 40 3 59 37 4 3 33 | 23°39'46 24°40'25 25°41'05 26°41'47 27°42'29 28°43'13 29°43'57 | 12₹52 27°40 12₹27 27° 4 11≈27 25°33 9¥20 | 14°22 15°57 17°32 19°8 20°43 22°18 23°53 | 21°10 22°26 23°41 24°57 26°12 27°27 28°43 | 15°43 15°24 15° 4 14°44 14°23 14° 2 13°40 | 11° 3 11°10 11°17 11°24 11°31 11°38 11°45 | 5°20 5°27 5°33 5°40 5°47 5°54 6° 1 | 22°49 22°51 22°54 22°56 22°58 23° 1 23° 3 | 5° 2 5° 4 5° 6 5° 8 5°10 5°11 5°13 | 20°41 20°40 20°39 20°38 20°37 20°36 20°35 | 14° 9 14° 8 14° 6 14° 5 14° 4 14°D 3 14° 4 | 13°26 13°23 13°20 13°17 13°14 13°10 13° 7 | 13°39 13°45 13°52 13°59 14° 6 14°12 14°19 | 9° 6 9°10 9°15 9°20 9°24 9°29 9°34 | S 16 M17 T 18 W19 T 20 F 21 S 22 |
| S 23 M24 T 25 W26 T 27 F 28 S 29 S 30 | 4 7 30 4 11 26 4 15 23 4 19 19 4 23 16 4 27 12 4 31 9 4 35 6 | 0 * 44'43 1°45'30 2°46'17 3°47'06 4°47'55 5°48'46 6°49'38 7 * 50'31 | 22°49 6° 1 18°58 18'40 14°11 26°31 8° 142 20° 146 | 25°28 27°2 28°37 0×111 1°46 3°20 4°54 | 29°58 1x ⁷ 14 2°29 3°45 5° 0 6°16 7°31 8x ⁷ 47 | 13°18 12°56 12°34 12°11 11°48 11°25 11° 2 | 11°51 11°58 12° 4 12°10 12°16 12°22 12°27 | 6° 8 6°15 6°21 6°28 6°35 6°41 6°48 | 23° 6 23° 8 23°11 23°13 23°16 23°18 23°21 | 5°15 5°17 5°19 5°21 5°23 5°25 5°27 | 20°34 20°32 20°31 20°30 20°29 20°28 20°27 | 14° 5 14° 6 14° 7 14° 9 14°R 9 14° 8 14° 7 | 13° 4 13° 1 12°58 12°55 12°51 12°48 12°45 | 14°26 14°32 14°39 14°46 14°52 14°59 15° 6 | 9°39 9°44 9°49 9°54 9°59 10°4 10°9 | S 23 M24 T 25 W26 T 27 F 28 S 29 S 30 |

Delta T = 36.50 sec

Greg. Calendar

| DECEMBER 1659 GC | 00:00 UT |
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| DECEMBER 1033 GC | 00.00 01 |

| Day | Sid.t | 0 | D | ğ | P | ♂ | 4 | ħ |)/(| ¥ | В | ₽. | ß | Ç | ę, | Day |
|------|---------|-------------------|----------------|----------------|----------------|---------------|-----------------|---------------|----------------|---------------|----------------|-----------------|----------------|--------|----------------|------|
| M 1 | 4 39 2 | 8 × 751'25 | 29543 | 8 ∡ 7 3 | 10 ∡ 2 | 10°R15 | 12 m /38 | 7 m 1 | 23 る 26 | 5 る 31 | 20°R25 | 14°R 0 | 12 M 39 | 159519 | 10 궁 19 | M 1 |
| T 2 | 4 42 59 | 9°52'20 | 14°36 | 9°37 | 11°18 | 9∏52 | 12°43 | 7° 7 | 23°29 | 5°34 | 20∏23 | 13 M .55 | 12°35 | 15°26 | 10°24 | T 2 |
| W 3 | 4 46 55 | 10°53'16 | 26°27 | 11°11 | 12°33 | 9°29 | 12°48 | 7°14 | 23°32 | 5°36 | 20°22 | 13°50 | 12°32 | 15°33 | 10°30 | W 3 |
| T 4 | 4 50 52 | 11°54'14 | 8 Ω 18 | 12°46 | 13°49 | 9° 6 | 12°53 | 7°20 | 23°35 | 5°38 | 20°21 | 13°46 | 12°29 | 15°39 | 10°35 | T 4 |
| F 5 | 4 54 48 | 12°55'12 | 20°14 | 14°20 | 15° 4 | 8°44 | 12°57 | 7°27 | 23°38 | 5°40 | 20°20 | 13°42 | 12°26 | 15°46 | 10°40 | F 5 |
| S 6 | 4 58 45 | 13°56'12 | 2 Mp 18 | 15°54 | 16°20 | 8°21 | 13° 2 | 7°33 | 23°41 | 5°42 | 20°19 | 13°40 | 12°23 | 15°53 | 10°46 | S 6 |
| S 7 | 5 2 41 | 14°57'12 | 14°34 | 17°29 | 17°35 | 7°59 | 13° 6 | 7°39 | 23°43 | 5°44 | 20°18 | 13°D39 | 12°20 | 16° 0 | 10°51 | S 7 |
| M 8 | 5 638 | 15°58'14 | 27° 8 | 19° 3 | 18°50 | 7°37 | 13°10 | 7°45 | 23°46 | 5°46 | 20°16 | 13°40 | 12°16 | 16° 6 | 10°56 | M 8 |
| T 9 | 5 10 35 | 16°59'17 | 10 ♀ 3 | 20°38 | 20° 6 | 7°16 | 13°14 | 7°52 | 23°49 | 5°48 | 20°15 | 13°41 | 12°13 | 16°13 | 11° 2 | T 9 |
| W10 | 5 14 31 | 18° 0'21 | 23°24 | 22°13 | 21°21 | 6°55 | 13°18 | 7°58 | 23°52 | 5°51 | 20°14 | 13°43 | 12°10 | 16°20 | 11° 7 | W10 |
| T 11 | 5 18 28 | 19° 1'26 | 7 m 12 | 23°47 | 22°37 | 6°35 | 13°22 | 8° 4 | 23°55 | 5°53 | 20°13 | 13°R44 | 12° 7 | 16°26 | 11°13 | T 11 |
| F 12 | 5 22 24 | 20° 2'31 | 21°28 | 25°22 | 23°52 | 6°15 | 13°25 | 8°10 | 23°58 | 5°55 | 20°12 | 13°44 | 12° 4 | 16°33 | 11°18 | F 12 |
| S 13 | 5 26 21 | 21° 3'38 | 6 ₹ 8 | 26°57 | 25° 8 | 5°56 | 13°28 | 8°16 | 24° 2 | 5°57 | 20°11 | 13°42 | 12° 1 | 16°40 | 11°24 | S 13 |
| S 14 | 5 30 17 | 22° 4'45 | 21° 9 | 28°33 | 26°23 | 5°37 | 13°31 | 8°22 | 24° 5 | 5°59 | 20° 9 | 13°39 | 11°57 | 16°47 | 11°29 | S 14 |
| M15 | 5 34 14 | 23° 5'53 | 6 පි 20 | 8 중0 | 27°39 | 5°19 | 13°34 | 8°27 | 24° 8 | 6° 2 | 20° 8 | 13°33 | 11°54 | 16°53 | 11°35 | M15 |
| T 16 | 5 38 11 | 24° 7'02 | 21°31 | 1°43 | 28°54 | 5° 1 | 13°37 | 8°33 | 24°11 | 6° 4 | 20° 7 | 13°27 | 11°51 | 17° 0 | 11°40 | T 16 |
| W17 | 5 42 7 | 25° 8'10 | 6≈32 | 3°19 | 0 궁 10 | 4°44 | 13°39 | 8°39 | 24°14 | 6° 6 | 20° 6 | 13°21 | 11°48 | 17° 7 | 11°46 | W17 |
| T 18 | 5 46 4 | 26° 9'19 | 21°16 | 4°55 | 1°25 | 4°28 | 13°41 | 8°45 | 24°17 | 6° 8 | 20° 5 | 13°15 | 11°45 | 17°13 | 11°51 | T 18 |
| F 19 | 5 50 0 | 27°10'28 | 5) €35 | 6°31 | 2°41 | 4°13 | 13°44 | 8°50 | 24°21 | 6°11 | 20° 3 | 13°11 | 11°41 | 17°20 | 11°57 | F 19 |
| S 20 | 5 53 57 | 28°11'37 | 19°28 | 8° 7 | 3°56 | 3°58 | 13°46 | 8°56 | 24°24 | 6°13 | 20° 2 | 13° 9 | 11°38 | 17°27 | 12° 3 | S 20 |
| S 21 | 5 57 53 | 29°12'46 | 2 Y 56 | 9°43 | 5°12 | 3°45 | 13°47 | 9° 1 | 24°27 | 6°15 | 20° 1 | 13°D 9 | 11°35 | 17°34 | 12° 8 | S 21 |
| M22 | 6 1 50 | 0 궁 13'55 | 16° 0 | 11°18 | 6°27 | 3°32 | 13°49 | 9° 7 | 24°30 | 6°17 | 20° 0 | 13° 9 | 11°32 | 17°40 | 12°14 | M22 |
| T 23 | 6 5 46 | 1°15'04 | 28°44 | 12°54 | 7°43 | 3°19 | 13°50 | 9°12 | 24°34 | 6°20 | 19°59 | 13°11 | 11°29 | 17°47 | 12°20 | T 23 |
| W24 | 6 9 43 | 2°16'13 | 11812 | 14°30 | 8°58 | 3° 8 | 13°51 | 9°17 | 24°37 | 6°22 | 19°58 | 13°R12 | 11°26 | 17°54 | 12°25 | W24 |
| T 25 | 6 13 40 | 3°17'22 | 23°28 | 16° 6 | 10°13 | 2°57 | 13°52 | 9°22 | 24°40 | 6°24 | 19°57 | 13°11 | 11°22 | 18° 0 | 12°31 | T 25 |
| F 26 | 6 17 36 | 4°18'31 | 5 Ⅱ 34 | 17°41 | 11°29 | 2°47 | 13°53 | 9°28 | 24°44 | 6°26 | 19°55 | 13° 8 | 11°19 | 18° 7 | 12°37 | F 26 |
| S 27 | 6 21 33 | 5°19'40 | 17°34 | 19°16 | 12°44 | 2°38 | 13°54 | 9°33 | 24°47 | 6°29 | 19°54 | 13° 3 | 11°16 | 18°14 | 12°42 | S 27 |
| S 28 | 6 25 29 | 6°20'49 | 29°30 | 20°51 | 14° 0 | 2°30 | 13°54 | 9°38 | 24°50 | 6°31 | 19°53 | 12°55 | 11°13 | 18°21 | 12°48 | S 28 |
| M29 | 6 29 26 | 7°21'58 | 119523 | 22°25 | 15°15 | 2°23 | 13°54 | 9°43 | 24°54 | 6°33 | 19°52 | 12°45 | 11°10 | 18°27 | 12°54 | M29 |
| T 30 | 6 33 22 | 8°23'07 | 23°15 | 2 <u>3</u> °58 | 1 <u>6</u> °31 | 2°16 | 13°R54 | 9°47 | 2 <u>4</u> °57 | 6°36 | 19°51 | 12°34 | 11° 7 | 18°34 | 13° 0 | T 30 |
| W31 | 6 37 19 | 9 ට 24'16 | 5 Ω 7 | 25 る 30 | 17 る 46 | 2 Ⅱ 11 | 13 m 54 | 9 ™ 52 | 25 る 1 | 6 ප 38 | 19 Ⅱ 50 | 12 M 23 | 11 M 3 | 189941 | 13 る 5 | W31 |

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| T 1 | | 0 | 9 | φ | Q | ♂ | 4 | ħ |)∤(| 卉 | Р | r | Ω | Ç | ٧٥ | Day |
|------|---------|-------------------|------------------|----------------|-------|---------------|----------------|----------------|-----------------|----------------|----------------|---------------|---------------|--------|----------------|------|
| 1 1 | 6 41 15 | 10 ට 25'25 | 17 Ω 1 | 27る 0 | 19る 1 | 2°R 6 | 13°R54 | 9 M .57 | 25る 4 | 6 පි 40 | 19°R49 | 12°R11 | 11 M 0 | 189647 | 13 ට 11 | T 1 |
| F 2 | 6 45 12 | 11°26'34 | 29° 0 | 28°29 | 20°17 | 2 II 2 | 13 m 53 | 10° 2 | 25° 8 | 6°42 | 19 Ⅱ 48 | 12 M 2 | 10°57 | 18°54 | 13°17 | F 2 |
| S 3 | 6 49 9 | 12°27'43 | 11 m 5 | 29°56 | 21°32 | 1°58 | 13°52 | 10° 6 | 25°11 | 6°45 | 19°46 | 11°55 | 10°54 | 19° 1 | 13°22 | S 3 |
| S 4 | 6 53 5 | 13°28'52 | 23°20 | 1≈21 | 22°47 | 1°56 | 13°52 | 10°11 | 25°15 | 6°47 | 19°45 | 11°50 | 10°51 | 19° 7 | 13°28 | S 4 |
| M 5 | 6 57 2 | 14°30'01 | 5 ₽ 50 | 2°43 | 24° 3 | 1°54 | 13°50 | 10°15 | 25°18 | 6°49 | 19°44 | 11°48 | 10°47 | 19°14 | 13°34 | M 5 |
| T 6 | 7 0 58 | 15°31'10 | 18°37 | 4° 1 | 25°18 | 1°53 | 13°49 | 10°19 | 25°21 | 6°51 | 19°43 | 11°D47 | 10°44 | 19°21 | 13°40 | T 6 |
| W 7 | 7 4 55 | 16°32'19 | 1 M .48 | 5°15 | 26°33 | 1°D53 | 13°48 | 10°24 | 25°25 | 6°54 | 19°42 | 11°48 | 10°41 | 19°28 | 13°45 | W 7 |
| T 8 | 7 8 5 1 | 17°33'28 | 15°25 | 6°25 | 27°49 | 1°54 | 13°46 | 10°28 | 25°28 | 6°56 | 19°41 | 11°R48 | 10°38 | 19°34 | 13°51 | T 8 |
| F 9 | 7 12 48 | 18°34'37 | 29°31 | 7°29 | 29° 4 | 1°55 | 13°44 | 10°32 | 25°32 | 6°58 | 19°40 | 11°47 | 10°35 | 19°41 | 13°57 | F 9 |
| S 10 | 7 16 44 | 19°35'46 | 14 % 5 | 8°28 | 0≈19 | 1°57 | 13°42 | 10°36 | 25°36 | 7° 0 | 19°39 | 11°43 | 10°32 | 19°48 | 14° 3 | S 10 |
| S 11 | 7 20 41 | 20°36'55 | 29° 3 | 9°19 | 1°35 | 2° 0 | 13°39 | 10°40 | 25°39 | 7° 3 | 19°38 | 11°37 | 10°28 | 19°55 | 14° 8 | S 11 |
| M12 | 7 24 38 | 21°38'03 | 14 궁 18 | 10° 2 | 2°50 | 2° 4 | 13°37 | 10°44 | 25°43 | 7° 5 | 19°37 | 11°28 | 10°25 | 20° 1 | 14°14 | M12 |
| T 13 | 7 28 34 | 22°39'11 | 29°40 | 10°36 | 4° 5 | 2° 8 | 13°34 | 10°47 | 25°46 | 7° 7 | 19°36 | 11°17 | 10°22 | 20° 8 | 14°20 | T 13 |
| W14 | 7 32 31 | 23°40'18 | 14≈56 | 11° 1 | 5°21 | 2°13 | 13°31 | 10°51 | 25°50 | 7° 9 | 19°35 | 11° 6 | 10°19 | 20°15 | 14°25 | W14 |
| T 15 | 7 36 27 | 24°41'24 | 29°56 | 11°16 | 6°36 | 2°19 | 13°28 | 10°55 | 25°53 | 7°11 | 19°34 | 10°56 | 10°16 | 20°21 | 14°31 | T 15 |
| F 16 | 7 40 24 | 25°42'29 | 14) (31 | 11°R19 | 7°51 | 2°25 | 13°25 | 10°58 | 25°57 | 7°14 | 19°33 | 10°48 | 10°13 | 20°28 | 14°37 | F 16 |
| S 17 | 7 44 20 | 26°43'34 | 28°37 | 11°11 | 9° 6 | 2°32 | 13°22 | 11° 1 | 26° 0 | 7°16 | 19°32 | 10°43 | 10° 9 | 20°35 | 14°42 | S 17 |
| S 18 | 7 48 17 | 27°44'37 | 12 Y 13 | 10°51 | 10°22 | 2°40 | 13°18 | 11° 5 | 26° 4 | 7°18 | 19°32 | 10°40 | 10° 6 | 20°42 | 14°48 | S 18 |
| M19 | 7 52 13 | 28°45'39 | 25°21 | 10°20 | 11°37 | 2°49 | 13°14 | 11°8 | 26° 7 | 7°20 | 19°31 | 10°D39 | 10° 3 | 20°48 | 14°53 | M19 |
| T 20 | 7 56 10 | 29°46'41 | 8 8 4 | 9°38 | 12°52 | 2°58 | 13°10 | 11°11 | 26°11 | 7°22 | 19°30 | 10°R39 | 10° 0 | 20°55 | 14°59 | T 20 |
| W21 | 8 0 7 | 0≈47'41 | 20°28 | 8°46 | 14° 7 | 3° 7 | 13° 6 | 11°14 | 26°14 | 7°24 | 19°29 | 10°39 | 9°57 | 21° 2 | 15° 5 | W21 |
| T 22 | 8 4 3 | 1°48'40 | 2 Ⅱ 37 | 7°46 | 15°22 | 3°18 | 13° 2 | 11°17 | 26°18 | 7°27 | 19°28 | 10°37 | 9°53 | 21° 8 | 15°10 | T 22 |
| F 23 | 8 8 0 | 2°49'38 | 14°37 | 6°38 | 16°38 | 3°29 | 12°58 | 11°20 | 26°21 | 7°29 | 19°27 | 10°33 | 9°50 | 21°15 | 15°16 | F 23 |
| S 24 | 8 11 56 | 3°50'35 | 26°30 | 5°27 | 17°53 | 3°40 | 12°53 | 11°23 | 26°25 | 7°31 | 19°27 | 10°25 | 9°47 | 21°22 | 15°21 | S 24 |
| S 25 | 8 15 53 | 4°51'31 | 8921 | 4°12 | 19°8 | 3°52 | 12°48 | 11°25 | 26°28 | 7°33 | 19°26 | 10°15 | 9°44 | 21°29 | 15°27 | S 25 |
| M26 | 8 19 49 | 5°52'25 | 20°13 | 2°57 | 20°23 | 4° 5 | 12°43 | 11°28 | 26°32 | 7°35 | 19°25 | 10° 2 | 9°41 | 21°35 | 15°32 | M26 |
| T 27 | 8 23 46 | 6°53'19 | 2Ω 5 | 1°44 | 21°38 | 4°18 | 12°38 | 11°30 | 26°35 | 7°37 | 19°24 | 9°48 | 9°38 | 21°42 | 15°38 | T 27 |
| W28 | 8 27 42 | 7°54'11 | 14° 2 | 0°35 | 22°53 | 4°31 | 12°33 | 11°33 | 26°39 | 7°39 | 19°23 | 9°33 | 9°34 | 21°49 | 15°43 | W28 |
| T 29 | 8 31 39 | 8°55'03 | 26° 2 | 29 궁 30 | 24° 8 | 4°46 | 12°28 | 11°35 | 26°42 | 7°41 | 19°23 | 9°18 | 9°31 | 21°55 | 15°48 | T 29 |
| F 30 | 8 35 36 | 9°55'53 | 8 Mp 8 | 28°33 | 25°23 | 5° 0 | 12°22 | 11°37 | 26°46 | 7°43 | 19°22 | 9° 6 | 9°28 | 22° 2 | 15°54 | F 30 |
| S 31 | 8 39 32 | 10≈56'42 | 20 m 21 | 27 る 42 | 26≈38 | 5 Ⅱ 15 | 12 M 16 | 11 M 39 | 26 පි 49 | 7 云 45 | 19 Ⅲ 21 | 8 M 55 | 9 M 25 | 2299 9 | 15 る 59 | S 31 |

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Greg. Calendar

FEBRUARY 1660 GC 00:00 UT

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|------|----------|---------------------|-----------------|----------------|----------------|----------------|---------------|-----------------|------------------|---------------|----------------|----------------|---------------|--------|----------------|------|
| S 1 | 8 43 29 | 11≈57'30 | 2 ≏ 43 | 27°R 0 | 27≈53 | 5 Ⅱ 31 | 12°R11 | 11 M .41 | 26 궁 53 | 7 궁 47 | 19°R21 | 8°R48 | 9 m 22 | 229516 | 16궁 4 | S 1 |
| M 2 | 8 47 25 | 12°58'17 | 15°17 | 26 궁 26 | 29° 8 | 5°47 | 12 Mp 5 | 11°43 | 26°56 | 7°49 | 19 Ⅲ 20 | 8 M .44 | 9°19 | 22°22 | 16°10 | M 2 |
| T 3 | 8 51 22 | 13°59'04 | 28° 5 | 26° 1 | 0) €23 | 6° 4 | 11°58 | 11°45 | 27° 0 | 7°51 | 19°19 | 8°43 | 9°15 | 22°29 | 16°15 | T 3 |
| W 4 | 8 55 18 | 14°59'49 | 11 M .11 | 25°43 | 1°38 | 6°21 | 11°52 | 11°46 | 27° 3 | 7°53 | 19°19 | 8°43 | 9°12 | 22°36 | 16°20 | W 4 |
| T 5 | 8 59 15 | 16° 0'33 | 24°39 | 25°34 | 2°53 | 6°38 | 11°46 | 11°48 | 27° 6 | 7°55 | 19°18 | 8°42 | 9° 9 | 22°42 | 16°25 | T 5 |
| F 6 | 9 3 11 | 17° 1'16 | 8 ∡ ³32 | 25°D32 | 4° 8 | 6°56 | 11°39 | 11°49 | 27°10 | 7°57 | 19°18 | 8°41 | 9° 6 | 22°49 | 16°30 | F 6 |
| S 7 | 9 7 8 | 18° 1'59 | 22°50 | 25°37 | 5°23 | 7°14 | 11°33 | 11°51 | 27°13 | 7°58 | 19°17 | 8°38 | 9° 3 | 22°56 | 16°36 | S 7 |
| S 8 | 9 11 5 | 19° 2'40 | 7 云 32 | 25°49 | 6°37 | 7°33 | 11°26 | 11°52 | 27°16 | 8° 0 | 19°17 | 8°31 | 8°59 | 23° 3 | 16°41 | S 8 |
| M 9 | 9 15 1 | 20° 3'20 | 22°32 | 26° 8 | 7°52 | 7°52 | 11°19 | 11°53 | 27°20 | 8° 2 | 19°16 | 8°22 | 8°56 | 23° 9 | 16°46 | M 9 |
| T 10 | 9 18 58 | 21° 3'58 | 7≈44 | 26°32 | 9° 7 | 8°12 | 11°12 | 11°54 | 27°23 | 8° 4 | 19°16 | 8°11 | 8°53 | 23°16 | 16°51 | T 10 |
| W11 | 9 22 54 | 22° 4'35 | 22°55 | 27° 1 | 10°22 | 8°31 | 11° 5 | 11°55 | 27°26 | 8° 6 | 19°15 | 8° 0 | 8°50 | 23°23 | 16°56 | W11 |
| T 12 | 9 26 51 | 23° 5'11 | 7 ∺ 56 | 27°36 | 11°37 | 8°52 | 10°58 | 11°56 | 27°30 | 8° 7 | 19°15 | 7°49 | 8°47 | 23°29 | 17° 1 | T 12 |
| F 13 | 9 30 47 | 24° 5'45 | 22°36 | 28°14 | 12°51 | 9°12 | 10°51 | 11°57 | 27°33 | 8° 9 | 19°14 | 7°41 | 8°44 | 23°36 | 17° 5 | F 13 |
| S 14 | 9 34 44 | 25° 6'17 | 6 Υ 50 | 28°57 | 14° 6 | 9°33 | 10°44 | 11°57 | 27°36 | 8°11 | 19°14 | 7°34 | 8°40 | 23°43 | 17°10 | S 14 |
| S 15 | 9 38 40 | 26° 6'47 | 20°35 | 29°44 | 15°21 | 9°55 | 10°36 | 11°58 | 27°39 | 8°13 | 19°13 | 7°31 | 8°37 | 23°50 | 17°15 | S 15 |
| M16 | 9 42 37 | 27° 7'16 | 3 8 50 | 0≈35 | 16°35 | 10°16 | 10°29 | 11°58 | 27°43 | 8°14 | 19°13 | 7°D30 | 8°34 | 23°56 | 17°20 | M16 |
| T 17 | 9 46 34 | 28° 7'43 | 16°40 | 1°29 | 17°50 | 10°38 | 10°22 | 11°58 | 27°46 | 8°16 | 19°13 | 7°30 | 8°31 | 24° 3 | 17°24 | T 17 |
| W18 | 9 50 30 | 29° 8'07 | 29° 7 | 2°25 | 19° 4 | 11° 1 | 10°14 | 11°59 | 27°49 | 8°17 | 19°12 | 7°R30 | 8°28 | 24°10 | 17°29 | W18 |
| T 19 | 9 54 27 | 0 米 8'30 | 11 I I18 | 3°25 | 20°19 | 11°23 | 10° 6 | 11°59 | 27°52 | 8°19 | 19°12 | 7°30 | 8°24 | 24°16 | 17°34 | T 19 |
| F 20 | 9 58 23 | 1° 8'51 | 23°17 | 4°27 | 21°33 | 11°46 | 9°59 | 11°R59 | 27°55 | 8°21 | 19°12 | 7°27 | 8°21 | 24°23 | 17°38 | F 20 |
| S 21 | 10 2 20 | 2° 9'10 | 59 9 | 5°32 | 22°48 | 12° 9 | 9°51 | 11°59 | 27°58 | 8°22 | 19°12 | 7°22 | 8°18 | 24°30 | 17°43 | S 21 |
| S 22 | 10 6 16 | 3° 9'27 | 17° 0 | 6°39 | 24° 2 | 12°33 | 9°43 | 11°58 | 28° 1 | 8°24 | 19°11 | 7°14 | 8°15 | 24°37 | 17°47 | S 22 |
| M23 | 10 10 13 | 4° 9'42 | 28°51 | 7°48 | 25°17 | 12°57 | 9°36 | 11°58 | 28° 4 | 8°25 | 19°11 | 7° 5 | 8°12 | 24°43 | 17°52 | M23 |
| T 24 | 10 14 9 | 5° 9'55 | 10 Ω 47 | 8°59 | 26°31 | 13°21 | 9°28 | 11°58 | 28° 7 | 8°27 | 19°11 | 6°53 | 8° 9 | 24°50 | 17°56 | T 24 |
| W25 | 10 18 6 | 6°10'07 | 22°49 | 10°12 | 27°45 | 13°45 | 9°20 | 11°57 | 28°10 | 8°28 | 19°11 | 6°41 | 8° 5 | 24°57 | 18° 0 | W25 |
| T 26 | 10 22 3 | 7°10'16 | 4 Mp 58 | 11°26 | 29° 0 | 14°10 | 9°12 | 11°57 | 28°13 | 8°29 | 19°11 | 6°29 | 8° 2 | 25° 4 | 18° 5 | T 26 |
| F 27 | 10 25 59 | 8°10'23 | 17°16 | 12°43 | 0 Υ 14 | 14°35 | 9° 4 | 11°56 | 28°16 | 8°31 | 19°11 | 6°19 | 7°59 | 25°10 | 18° 9 | F 27 |
| S 28 | 10 29 56 | 9°10'29 | 29°43 | 14° 1 | 1°28 | 15° 0 | 8°56 | 11°55 | 28°19 | 8°32 | 19°10 | 6°11 | 7°56 | 25°17 | 18°13 | S 28 |
| S 29 | 10 33 52 | 10) € 10'33 | 12 ≏ 20 | 15≈21 | 2 Υ 42 | 15 Ⅱ 25 | 8 m 49 | 11 M 54 | 28 ට 22 | 8 云 33 | 19 Ⅱ 10 | 6 M 6 | 7 M 53 | 25924 | 18 ਰ 17 | S 29 |

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| M 1 | 10 37 49 | 11) 10'35 | 25 ♀ 8 | 16≈42 | 3 ℃ 57 | 15 I I51 | 8°R41 | 11°R53 | 28 궁 25 | 8 云 35 | 19°R10 | 6°R 3 | 7 M .50 | 25930 | 18 궁 21 | M 1 |
| T 2 | 10 41 45 | 12°10'35 | 8 M 8 | 18° 4 | 5°11 | 16°16 | 8 m 33 | 11 M 52 | 28°28 | 8°36 | 19 Ⅱ 10 | 6°D 3 | 7°46 | 25°37 | 18°25 | T 2 |
| W 3 | 10 45 42 | 13°10'34 | 21°22 | 19°28 | 6°25 | 16°42 | 8°25 | 11°51 | 28°30 | 8°37 | 19°D10 | 6M 3 | 7°43 | 25°44 | 18°29 | W 3 |
| T 4 | 10 49 38 | 14°10'31 | 4 ₹ 52 | 20°54 | 7°39 | 17° 9 | 8°17 | 11°50 | 28°33 | 8°38 | 19°10 | 6° 4 | 7°40 | 25°51 | 18°33 | T 4 |
| F 5 | 10 53 35 | 15°10'27 | 18°40 | 22°21 | 8°53 | 17°35 | 8°10 | 11°48 | 28°36 | 8°40 | 19°10 | 6°R 5 | 7°37 | 25°57 | 18°37 | F 5 |
| S 6 | 10 57 32 | 16°10'21 | 2 ප් 46 | 23°49 | 10° 7 | 18° 2 | 8° 2 | 11°47 | 28°38 | 8°41 | 19°10 | 6° 3 | 7°34 | 26° 4 | 18°41 | S 6 |
| S 7 | 11 128 | 17°10'13 | 17° 9 | 25°18 | 11°21 | 18°29 | 7°54 | 11°45 | 28°41 | 8°42 | 19°10 | 6° 0 | 7°30 | 26°11 | 18°44 | S 7 |
| M 8 | 11 5 25 | 18°10'04 | 1≈47 | 26°49 | 12°34 | 18°56 | 7°47 | 11°43 | 28°44 | 8°43 | 19°11 | 5°55 | 7°27 | 26°17 | 18°48 | M 8 |
| T 9 | 11 921 | 19° 9'53 | 16°34 | 28°21 | 13°48 | 19°23 | 7°39 | 11°42 | 28°46 | 8°44 | 19°11 | 5°48 | 7°24 | 26°24 | 18°52 | T 9 |
| W10 | 11 13 18 | 20° 9'40 | 1 ∺ 23 | 29°54 | 15° 2 | 19°50 | 7°31 | 11°40 | 28°49 | 8°45 | 19°11 | 5°41 | 7°21 | 26°31 | 18°55 | W10 |
| T 11 | 11 17 14 | 21° 9'25 | 16° 6 | 1 ∺ 28 | 16°16 | 20°18 | 7°24 | 11°38 | 28°51 | 8°46 | 19°11 | 5°34 | 7°18 | 26°38 | 18°59 | T 11 |
| F 12 | 11 21 11 | 22° 9'08 | 0 Υ 34 | 3° 4 | 17°30 | 20°46 | 7°17 | 11°36 | 28°54 | 8°47 | 19°11 | 5°28 | 7°15 | 26°44 | 19° 2 | F 12 |
| S 13 | 11 25 7 | 23° 8'49 | 14°42 | 4°41 | 18°43 | 21°14 | 7° 9 | 11°33 | 28°56 | 8°48 | 19°11 | 5°24 | 7°11 | 26°51 | 19° 5 | S 13 |
| S 14 | 11 29 4 | 24° 8'28 | 28°26 | 6°19 | 19°57 | 21°42 | 7° 2 | 11°31 | 28°58 | 8°49 | 19°12 | 5°22 | 7° 8 | 26°58 | 19° 9 | S 14 |
| M15 | 11 33 0 | 25° 8'05 | 11844 | 7°58 | 21°10 | 22°11 | 6°55 | 11°29 | 29° 1 | 8°50 | 19°12 | 5°D22 | 7° 5 | 27° 4 | 19°12 | M15 |
| T 16 | 11 36 57 | 26° 7'40 | 24°38 | 9°39 | 22°24 | 22°39 | 6°48 | 11°26 | 29° 3 | 8°50 | 19°12 | 5°23 | 7° 2 | 27°11 | 19°15 | T 16 |
| W17 | 11 40 54 | 27° 7'12 | 7 Ⅱ 10 | 11°21 | 23°38 | 23° 8 | 6°41 | 11°24 | 29° 5 | 8°51 | 19°13 | 5°25 | 6°59 | 27°18 | 19°18 | W17 |
| T 18 | 11 44 50 | 28° 6'42 | 19°25 | 13° 4 | 24°51 | 23°37 | 6°34 | 11°21 | 29° 8 | 8°52 | 19°13 | 5°26 | 6°56 | 27°25 | 19°21 | T 18 |
| F 19 | 11 48 47 | 29° 6'10 | 19528 | 14°49 | 26° 4 | 24° 6 | 6°27 | 11°19 | 29°10 | 8°53 | 19°13 | 5°R27 | 6°52 | 27°31 | 19°24 | F 19 |
| S 20 | 11 52 43 | 0 Υ 5'35 | 13°22 | 16°35 | 27°18 | 24°35 | 6°20 | 11°16 | 29°12 | 8°54 | 19°14 | 5°26 | 6°49 | 27°38 | 19°27 | S 20 |
| S 21 | 11 56 40 | 1° 4'58 | 25°14 | 18°22 | 28°31 | 25° 4 | 6°14 | 11°13 | 29°14 | 8°54 | 19°14 | 5°23 | 6°46 | 27°45 | 19°30 | S 21 |
| M22 | 12 0 36 | 2° 4'19 | 7 Ω 7 | 20°10 | 29°44 | 25°34 | 6° 7 | 11°10 | 29°16 | 8°55 | 19°14 | 5°19 | 6°43 | 27°52 | 19°32 | M22 |
| T 23 | 12 4 33 | 3° 3'37 | 19° 6 | 22° 0 | 0 8 57 | 26° 4 | 6° 1 | 11° 7 | 29°18 | 8°55 | 19°15 | 5°14 | 6°40 | 27°58 | 19°35 | T 23 |
| W24 | 12 8 29 | 4° 2'54 | 1 m 13 | 23°51 | 2°10 | 26°33 | 5°55 | 11° 4 | 29°20 | 8°56 | 19°15 | 5° 8 | 6°36 | 28° 5 | 19°38 | W24 |
| T 25 | 12 12 26 | 5° 2'07 | 13°31 | 25°44 | 3°24 | 27° 3 | 5°49 | 11° 1 | 29°22 | 8°57 | 19°16 | 5° 3 | 6°33 | 28°12 | 19°40 | T 25 |
| F 26 | 12 16 23 | 6° 1'19 | 26° 2 | 27°38 | 4°37 | 27°33 | 5°43 | 10°58 | 29°24 | 8°57 | 19°16 | 4°58 | 6°30 | 28°18 | 19°43 | F 26 |
| S 27 | 12 20 19 | 7° 0'29 | 8 ≏ 45 | 29°33 | 5°49 | 28° 3 | 5°37 | 10°54 | 29°26 | 8°58 | 19°17 | 4°55 | 6°27 | 28°25 | 19°45 | S 27 |
| S 28 | 12 24 16 | 7°59'36 | 21°42 | 1 Υ 29 | 7° 2 | 28°34 | 5°31 | 10°51 | 29°27 | 8°58 | 19°17 | 4°53 | 6°24 | 28°32 | 19°47 | S 28 |
| M29 | 12 28 12 | 8°58'42 | 4 M .51 | 3°27 | 8°15 | 29° 4 | 5°26 | 10°47 | 29°29 | 8°58 | 19°18 | 4°D52 | 6°21 | 28°39 | 19°49 | M29 |
| T 30 | 12 32 9 | 9°57'46 | 18°13 | 5°26 | 9°28 | 29°35 | 5°20 | 10°44 | 29°31 | 8°59 | 19°19 | 4°53 | 6°17 | 28°45 | 19°52 | T 30 |
| W31 | 12 36 5 | 10 Y 56'48 | 1 ∡7 47 | 7 ℃ 27 | 10841 | 0න 5 | 5 m) 15 | 10 M 40 | 29 궁 33 | 8 궁 59 | 19耳19 | 4M54 | 6 M .14 | 28952 | 19 る 54 | W31 |

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|------|----------|-------------------|-----------------|----------------|---------------|--------|----------------|-----------------|----------------|---------------|----------------|----------------|----------------|--------------|----------------|------|
| T 1 | 12 40 2 | 11 Y 55'48 | 15 × 32 | 9 Υ 28 | 11853 | 0936 | 5°R10 | 10°R37 | 29 궁 34 | 8 궁 59 | 19 Ⅱ 20 | 4ML55 | 6 M .11 | 28959 | 19 궁 56 | T 1 |
| F 2 | 12 43 58 | 12°54'46 | 29°28 | 11°31 | 13° 6 | 1° 7 | 5 m) 5 | 10 M .33 | 29°36 | 9° 0 | 19°20 | 4°57 | 6° 8 | 29° 5 | 19°58 | F 2 |
| S 3 | 12 47 55 | 13°53'43 | 13 る 33 | 13°35 | 14°19 | 1°38 | 5° 0 | 10°29 | 29°37 | 9° 0 | 19°21 | 4°R57 | 6° 5 | 29°12 | 19°59 | S 3 |
| S 4 | 12 51 52 | 14°52'38 | 27°47 | 15°39 | 15°31 | 2° 9 | 4°55 | 10°26 | 29°39 | 9° 0 | 19°22 | 4°57 | 6° 1 | 29°19 | 20° 1 | S 4 |
| M 5 | 12 55 48 | 15°51'31 | 12≈ 7 | 17°44 | 16°44 | 2°40 | 4°51 | 10°22 | 29°40 | 9° 0 | 19°22 | 4°55 | 5°58 | 29°26 | 20° 3 | M 5 |
| T 6 | 12 59 45 | 16°50'23 | 26°29 | 19°50 | 17°56 | 3°12 | 4°46 | 10°18 | 29°42 | 9° 1 | 19°23 | 4°53 | 5°55 | 29°32 | 20° 4 | T 6 |
| W 7 | 13 3 41 | 17°49'12 | 10 米 49 | 21°56 | 19°8 | 3°43 | 4°42 | 10°14 | 29°43 | 9° 1 | 19°24 | 4°51 | 5°52 | 29°39 | 20° 6 | W 7 |
| T 8 | 13 738 | 18°48'00 | 25° 3 | 24° 2 | 20°21 | 4°15 | 4°38 | 10°10 | 29°44 | 9° 1 | 19°25 | 4°49 | 5°49 | 29°46 | 20° 7 | T 8 |
| F 9 | 13 11 34 | 19°46'46 | 9 Ƴ 7 | 26° 8 | 21°33 | 4°46 | 4°34 | 10° 6 | 29°46 | 9° 1 | 19°25 | 4°47 | 5°46 | 29°53 | 20° 9 | F 9 |
| S 10 | 13 15 31 | 20°45'30 | 22°55 | 28°14 | 22°45 | 5°18 | 4°31 | 10° 2 | 29°47 | 9°R 1 | 19°26 | 4°46 | 5°42 | 29°59 | 20°10 | S 10 |
| S 11 | 13 19 27 | 21°44'12 | 6 8 25 | 0 8 19 | 23°57 | 5°50 | 4°27 | 9°57 | 29°48 | 9° 1 | 19°27 | 4°D46 | 5°39 | 0 Ω 6 | 20°11 | S 11 |
| M12 | 13 23 24 | 22°42'52 | 19°35 | 2°23 | 25° 9 | 6°22 | 4°24 | 9°53 | 29°49 | 9° 1 | 19°28 | 4°46 | 5°36 | 0°13 | 20°13 | M12 |
| T 13 | 13 27 20 | 23°41'30 | 2∏26 | 4°25 | 26°21 | 6°54 | 4°21 | 9°49 | 29°50 | 9° 1 | 19°29 | 4°47 | 5°33 | 0°19 | 20°14 | T 13 |
| W14 | 13 31 17 | 24°40'06 | 14°59 | 6°26 | 27°33 | 7°26 | 4°18 | 9°45 | 29°51 | 9° 0 | 19°30 | 4°48 | 5°30 | 0°26 | 20°15 | W14 |
| T 15 | 13 35 14 | 25°38'40 | 27°16 | 8°24 | 28°45 | 7°58 | 4°15 | 9°41 | 29°52 | 9° 0 | 19°31 | 4°49 | 5°27 | 0°33 | 20°16 | T 15 |
| F 16 | 13 39 10 | 26°37'11 | 9920 | 10°20 | 29°56 | 8°30 | 4°12 | 9°36 | 29°53 | 9° 0 | 19°31 | 4°50 | 5°23 | 0°40 | 20°16 | F 16 |
| S 17 | 13 43 7 | 27°35'41 | 21°17 | 12°14 | 1 II 8 | 9° 3 | 4°10 | 9°32 | 29°54 | 9° 0 | 19°32 | 4°50 | 5°20 | 0°46 | 20°17 | S 17 |
| S 18 | 13 47 3 | 28°34'08 | 3 Ω 10 | 14° 4 | 2°20 | 9°35 | 4° 8 | 9°27 | 29°55 | 9° 0 | 19°33 | 4°R50 | 5°17 | 0°53 | 20°18 | S 18 |
| M19 | 13 51 0 | 29°32'33 | 15° 5 | 15°52 | 3°31 | 10° 8 | 4° 6 | 9°23 | 29°55 | 8°59 | 19°34 | 4°50 | 5°14 | 1° 0 | 20°18 | M19 |
| T 20 | 13 54 56 | 0 8 30'56 | 27° 5 | 17°36 | 4°43 | 10°40 | 4° 4 | 9°19 | 29°56 | 8°59 | 19°35 | 4°50 | 5°11 | 1° 6 | 20°19 | T 20 |
| W21 | 13 58 53 | 1°29'17 | 9 m p15 | 19°16 | 5°54 | 11°13 | 4° 2 | 9°14 | 29°57 | 8°59 | 19°36 | 4°49 | 5° 7 | 1°13 | 20°19 | W21 |
| T 22 | 14 2 49 | 2°27'36 | 21°38 | 20°52 | 7° 5 | 11°46 | 4° 1 | 9°10 | 29°57 | 8°58 | 19°37 | 4°49 | 5° 4 | 1°20 | 20°20 | T 22 |
| F 23 | 14 6 46 | 3°25'52 | 4 ≗ 17 | 22°25 | 8°16 | 12°19 | 3°59 | 9° 5 | 29°58 | 8°58 | 19°38 | 4°49 | 5° 1 | 1°27 | 20°20 | F 23 |
| S 24 | 14 10 43 | 4°24'07 | 17°14 | 23°53 | 9°27 | 12°52 | 3°58 | 9° 1 | 29°58 | 8°58 | 19°39 | 4°D48 | 4°58 | 1°33 | 20°20 | S 24 |
| S 25 | 14 14 39 | 5°22'20 | 0 M .30 | 25°17 | 10°39 | 13°25 | 3°57 | 8°56 | 29°59 | 8°57 | 19°40 | 4°R48 | 4°55 | 1°40 | 20°20 | S 25 |
| M26 | 14 18 36 | 6°20'31 | 14° 2 | 26°37 | 11°49 | 13°58 | 3°56 | 8°52 | 29°59 | 8°57 | 19°41 | 4°48 | 4°52 | 1°47 | 20°R20 | M26 |
| T 27 | 14 22 32 | 7°18'41 | 27°51 | 27°53 | 13° 0 | 14°31 | 3°56 | 8°47 | 29°59 | 8°56 | 19°43 | 4°48 | 4°48 | 1°54 | 20°20 | T 27 |
| W28 | 14 26 29 | 8°16'49 | 11 ×7 52 | 29° 4 | 14°11 | 15° 4 | 3°55 | 8°43 | 29°59 | 8°55 | 19°44 | 4°48 | 4°45 | 2° 0 | 20°20 | W28 |
| T 29 | 14 30 25 | 9°14'55 | 2 <u>6</u> ° 2 | 0 ∐ 10 | 15°22 | 15°37 | 3°55 | 8°38 | 0≈ 0 | <u>8°55</u> | 19°45 | 4°48 | 4°42 | 2° 7 | 20°20 | T 29 |
| F 30 | 14 34 22 | 10813'00 | 10중18 | 1 I I12 | 16耳32 | 169911 | 3°D55 | 8 M .34 | 0≈ 0 | 8 궁 54 | 19 Ⅱ 46 | 4 M .47 | 4MJ39 | 2Ω14 | 20중20 | F 30 |

Delta T = 36.22 sec

MAY 1660 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)f(| Ħ | Р | ß | v | Ç | ę, | Day |
|------|----------|------------------|----------------|----------------|----------------|---------------|---------------|---------------|----------------|---------------|----------------|----------------|----------------|---------------|----------------|------|
| S 1 | 14 38 18 | 11811'04 | 24 궁 35 | 2П10 | 17 Ⅱ 43 | 16944 | 3 m 55 | 8°R29 | 0≈ 1 | 8°R54 | 19 Ⅱ 47 | 4°R47 | 4 M .36 | 2 N 20 | 20°R19 | S 1 |
| S 2 | 14 42 15 | 12° 9'06 | 8≈51 | 3° 2 | 18°53 | 17°18 | 3°56 | 8 M 25 | 0° 1 | 8 궁 53 | 19°48 | 4°D46 | 4°32 | 2°27 | 20 궁 19 | S 2 |
| M 3 | 14 46 12 | 13° 7'07 | 23° 3 | 3°50 | 20° 4 | 17°51 | 3°56 | 8°20 | 0° 1 | 8°52 | 19°49 | 4 M .47 | 4°29 | 2°34 | 20°19 | M 3 |
| T 4 | 14 50 8 | 14° 5'06 | 7 ∺ 9 | 4°32 | 21°14 | 18°25 | 3°57 | 8°16 | 0°R 1 | 8°51 | 19°51 | 4°47 | 4°26 | 2°41 | 20°18 | T 4 |
| W 5 | 14 54 5 | 15° 3'04 | 21° 5 | 5°10 | 22°24 | 18°58 | 3°58 | 8°11 | 0° 1 | 8°51 | 19°52 | 4°48 | 4°23 | 2°47 | 20°17 | W 5 |
| T 6 | 14 58 1 | 16° 1'01 | 4 Υ 52 | 5°43 | 23°34 | 19°32 | 3°59 | 8° 7 | 0° 1 | 8°50 | 19°53 | 4°49 | 4°20 | 2°54 | 20°17 | T 6 |
| F 7 | 15 1 58 | 16°58'57 | 18°27 | 6°11 | 24°44 | 20° 6 | 4° 0 | 8° 2 | 0° 0 | 8°49 | 19°54 | 4°49 | 4°17 | 3° 1 | 20°16 | F 7 |
| S 8 | 15 5 54 | 17°56'51 | 1850 | 6°34 | 25°54 | 20°40 | 4° 1 | 7°58 | 0° 0 | 8°48 | 19°55 | 4°R50 | 4°13 | 3° 7 | 20°15 | S 8 |
| S 9 | 15 9 51 | 18°54'43 | 14°59 | 6°52 | 27° 4 | 21°14 | 4° 3 | 7°53 | 0° 0 | 8°47 | 19°57 | 4°50 | 4°10 | 3°14 | 20°14 | S 9 |
| M10 | 15 13 47 | 19°52'35 | 27°53 | 7° 5 | 28°14 | 21°48 | 4° 5 | 7°49 | 29 궁 59 | 8°46 | 19°58 | 4°49 | 4° 7 | 3°21 | 20°13 | M10 |
| T 11 | 15 17 44 | 20°50'24 | 10 Ⅲ 33 | 7°13 | 29°23 | 22°22 | 4° 7 | 7°45 | 29°59 | 8°46 | 19°59 | 4°47 | 4° 4 | 3°28 | 20°12 | T 11 |
| W12 | 15 21 41 | 21°48'13 | 22°59 | 7°R16 | 0ഇ33 | 22°56 | 4° 9 | 7°40 | 29°59 | 8°45 | 20° 0 | 4°45 | 4° 1 | 3°34 | 20°11 | W12 |
| T 13 | 15 25 37 | 22°45'59 | 59913 | 7°14 | 1°42 | 23°30 | 4°11 | 7°36 | 29°59 | 8°44 | 20° 2 | 4°42 | 3°58 | 3°41 | 20° 9 | T 13 |
| F 14 | 15 29 34 | 23°43'45 | 17°16 | 7° 8 | 2°51 | 24° 4 | 4°13 | 7°32 | 29°58 | 8°43 | 20° 3 | 4°39 | 3°54 | 3°48 | 20° 8 | F 14 |
| S 15 | 15 33 30 | 24°41'28 | 29°12 | 6°57 | 4° 1 | 24°39 | 4°16 | 7°28 | 29°58 | 8°42 | 20° 4 | 4°37 | 3°51 | 3°55 | 20° 7 | S 15 |
| S 16 | 15 37 27 | 25°39'10 | 11 Ω 5 | 6°42 | 5°10 | 25°13 | 4°19 | 7°23 | 29°57 | 8°41 | 20° 6 | 4°35 | 3°48 | 4° 1 | 20° 5 | S 16 |
| M17 | 15 41 23 | 26°36'50 | 22°59 | 6°23 | 6°18 | 25°47 | 4°22 | 7°19 | 29°56 | 8°39 | 20° 7 | 4°D34 | 3°45 | 4° 8 | 20° 4 | M17 |
| T 18 | 15 45 20 | 27°34'29 | 4 m 59 | 6° 1 | 7°27 | 26°22 | 4°25 | 7°15 | 29°56 | 8°38 | 20° 8 | 4°35 | 3°42 | 4°15 | 20° 2 | T 18 |
| W19 | 15 49 16 | 28°32'06 | 17° 8 | 5°35 | 8°36 | 26°56 | 4°28 | 7°11 | 29°55 | 8°37 | 20° 9 | 4°36 | 3°38 | 4°21 | 20° 0 | W19 |
| T 20 | 15 53 13 | 29°29'42 | 29°32 | 5° 7 | 9°45 | 27°31 | 4°32 | 7° 7 | 29°54 | 8°36 | 20°11 | 4°37 | 3°35 | 4°28 | 19°59 | T 20 |
| F 21 | 15 57 10 | 0 Ⅱ 27'16 | 12 ≏ 14 | 4°36 | 10°53 | 28° 5 | 4°35 | 7° 3 | 29°53 | 8°35 | 20°12 | 4°39 | 3°32 | 4°35 | 19°57 | F 21 |
| S 22 | 16 1 6 | 1°24'49 | 25°18 | 4° 4 | 12° 1 | 28°40 | 4°39 | 6°59 | 29°53 | 8°34 | 20°14 | 4°40 | 3°29 | 4°42 | 19°55 | S 22 |
| S 23 | 16 5 3 | 2°22'21 | 8 M .46 | 3°31 | 13° 9 | 29°15 | 4°43 | 6°55 | 29°52 | 8°33 | 20°15 | 4°R40 | 3°26 | 4°48 | 19°53 | S 23 |
| M24 | 16 8 59 | 3°19'51 | 22°36 | 2°57 | 14°17 | 29°49 | 4°47 | 6°51 | 29°51 | 8°31 | 20°16 | 4°39 | 3°23 | 4°55 | 19°51 | M24 |
| T 25 | 16 12 56 | 4°17'21 | 6 才 48 | 2°23 | 15°25 | 0 Ω 24 | 4°52 | 6°48 | 29°50 | 8°30 | 20°18 | 4°37 | 3°19 | 5° 2 | 19°49 | T 25 |
| W26 | 16 16 52 | 5°14'49 | 21°16 | 1°50 | 16°33 | 0°59 | 4°56 | 6°44 | 29°49 | 8°29 | 20°19 | 4°33 | 3°16 | 5° 9 | 19°47 | W26 |
| T 27 | 16 20 49 | 6°12'16 | 5 궁 55 | 1°19 | 17°41 | 1°34 | 5° 1 | 6°40 | 29°48 | 8°28 | 20°20 | 4°29 | 3°13 | 5°15 | 19°45 | T 27 |
| F 28 | 16 24 45 | 7° 9'43 | 20°36 | 0°48 | 18°48 | 2° 9 | 5° 6 | 6°37 | 29°47 | 8°26 | 20°22 | 4°24 | 3°10 | 5°22 | 19°42 | F 28 |
| S 29 | 16 28 42 | 8° 7'09 | 5≈14 | 0°21 | 19°55 | 2°44 | 5°10 | 6°33 | 29°45 | 8°25 | 20°23 | 4°20 | 3° 7 | 5°29 | 19°40 | S 29 |
| S 30 | 16 32 39 | 9° 4'34 | 19°43 | 29 8 55 | 21° 2 | 3°19 | 5°16 | 6°30 | 29°44 | 8°24 | 20°25 | 4°17 | 3° 4 | 5°35 | 19°38 | S 30 |
| M31 | 16 36 35 | 10耳 1'58 | 3 ∺ 59 | 29 8 33 | 229 9 | 3 Ω 54 | 5 m 21 | 6 M 26 | 29 る 43 | 8 궁 22 | 20∏26 | 4°D16 | 3 ™ 0 | 5 Ω 42 | 19 る 35 | M31 |

Delta T = 36.16 sec

Greg. Calendar

JUNE 1660 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| ¥ | Р | v | Ω | Ç | Š. | Day |
|------|----------|----------|-----------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|----------------|---------------|----------------|------|
| T 1 | 16 40 32 | 10耳59′22 | 17 米 58 | 29°R15 | 239516 | 4 Ω 29 | 5 m 26 | 6°R23 | 29°R42 | 8°R21 | 20 Ⅲ 27 | 4 M .16 | 2 M .57 | 5 Ω 49 | 19°R33 | T 1 |
| W 2 | 16 44 28 | 11°56'45 | 1 Υ 42 | 29 8 0 | 24°23 | 5° 4 | 5°32 | 6ML20 | 29 る 40 | 8 궁 19 | 20°29 | 4°17 | 2°54 | 5°56 | 19 る 30 | W 2 |
| T 3 | 16 48 25 | 12°54'07 | 15° 9 | 28°49 | 25°29 | 5°39 | 5°37 | 6°17 | 29°39 | 8°18 | 20°30 | 4°18 | 2°51 | 6° 2 | 19°27 | T 3 |
| F 4 | 16 52 21 | 13°51'29 | 28°22 | 28°43 | 26°36 | 6°15 | 5°43 | 6°14 | 29°38 | 8°17 | 20°32 | 4°R20 | 2°48 | 6° 9 | 19°25 | F 4 |
| S 5 | 16 56 18 | 14°48'51 | 11822 | 28°D41 | 27°42 | 6°50 | 5°49 | 6°10 | 29°36 | 8°15 | 20°33 | 4°19 | 2°44 | 6°16 | 19°22 | S 5 |
| S 6 | 17 0 14 | 15°46'12 | 24° 9 | 28°43 | 28°48 | 7°25 | 5°55 | 6° 7 | 29°35 | 8°14 | 20°34 | 4°18 | 2°41 | 6°22 | 19°19 | S 6 |
| M 7 | 17 4 11 | 16°43'32 | 6 Ⅱ 45 | 28°50 | 29°54 | 8° 1 | 6° 1 | 6° 5 | 29°33 | 8°12 | 20°36 | 4°14 | 2°38 | 6°29 | 19°17 | M 7 |
| T 8 | 17 8 8 | 17°40'52 | 19°10 | 29° 1 | 0 Ω 59 | 8°36 | 6° 8 | 6° 2 | 29°32 | 8°11 | 20°37 | 4° 8 | 2°35 | 6°36 | 19°14 | T 8 |
| W 9 | 17 12 4 | 18°38'11 | 19525 | 29°17 | 2° 5 | 9°12 | 6°14 | 5°59 | 29°30 | 8° 9 | 20°39 | 4° 1 | 2°32 | 6°43 | 19°11 | W 9 |
| T 10 | 17 16 1 | 19°35'29 | 13°32 | 29°37 | 3°10 | 9°47 | 6°21 | 5°56 | 29°28 | 8° 8 | 20°40 | 3°53 | 2°29 | 6°49 | 19°8 | T 10 |
| F 11 | 17 19 57 | 20°32'47 | 25°32 | 0 Ⅱ 2 | 4°15 | 10°23 | 6°28 | 5°54 | 29°27 | 8° 6 | 20°41 | 3°44 | 2°25 | 6°56 | 19° 5 | F 11 |
| S 12 | 17 23 54 | 21°30'04 | 7 Ω 26 | 0°31 | 5°20 | 10°58 | 6°35 | 5°51 | 29°25 | 8° 5 | 20°43 | 3°36 | 2°22 | 7° 3 | 19° 2 | S 12 |
| S 13 | 17 27 50 | 22°27'20 | 19°17 | 1° 5 | 6°24 | 11°34 | 6°42 | 5°49 | 29°23 | 8° 3 | 20°44 | 3°30 | 2°19 | 7°10 | 18°59 | S 13 |
| M14 | 17 31 47 | 23°24'36 | 1 m) 10 | 1°43 | 7°29 | 12°10 | 6°49 | 5°47 | 29°21 | 8° 2 | 20°46 | 3°25 | 2°16 | 7°16 | 18°56 | M14 |
| T 15 | 17 35 43 | 24°21'50 | 13° 7 | 2°26 | 8°33 | 12°45 | 6°56 | 5°44 | 29°20 | 8° 0 | 20°47 | 3°23 | 2°13 | 7°23 | 18°52 | T 15 |
| W16 | 17 39 40 | 25°19'04 | 25°14 | 3°12 | 9°37 | 13°21 | 7° 4 | 5°42 | 29°18 | 7°58 | 20°49 | 3°D22 | 2°10 | 7°30 | 18°49 | W16 |
| T 17 | 17 43 37 | 26°16'18 | 7 ≏ 35 | 4° 3 | 10°40 | 13°57 | 7°11 | 5°40 | 29°16 | 7°57 | 20°50 | 3°22 | 2° 6 | 7°36 | 18°46 | T 17 |
| F 18 | 17 47 33 | 27°13'31 | 20°15 | 4°58 | 11°44 | 14°33 | 7°19 | 5°38 | 29°14 | 7°55 | 20°51 | 3°23 | 2° 3 | 7°43 | 18°43 | F 18 |
| S 19 | 17 51 30 | 28°10'43 | 3 M .19 | 5°56 | 12°47 | 15° 9 | 7°27 | 5°36 | 29°12 | 7°54 | 20°53 | 3°R24 | 2° 0 | 7°50 | 18°39 | S 19 |
| S 20 | 17 55 26 | 29° 7'54 | 16°50 | 6°59 | 13°50 | 15°45 | 7°35 | 5°35 | 29°10 | 7°52 | 20°54 | 3°23 | 1°57 | 7°57 | 18°36 | S 20 |
| M21 | 17 59 23 | 0ණ 5'06 | 0 ∡ 748 | 8° 6 | 14°52 | 16°21 | 7°43 | 5°33 | 29° 8 | 7°51 | 20°56 | 3°20 | 1°54 | 8° 3 | 18°33 | M21 |
| T 22 | 18 3 19 | 1° 2'17 | 15°13 | 9°16 | 15°55 | 16°57 | 7°51 | 5°31 | 29° 6 | 7°49 | 20°57 | 3°15 | 1°50 | 8°10 | 18°29 | T 22 |
| W23 | 18 7 16 | 1°59'27 | 29°59 | 10°30 | 16°57 | 17°33 | 7°59 | 5°30 | 29° 4 | 7°47 | 20°58 | 3° 8 | 1°47 | 8°17 | 18°26 | W23 |
| T 24 | 18 11 12 | 2°56'38 | 15 る 0 | 11°48 | 17°58 | 18° 9 | 8° 8 | 5°28 | 29° 2 | 7°46 | 21° 0 | 3° 0 | 1°44 | 8°24 | 18°22 | T 24 |
| F 25 | 18 15 9 | 3°53'48 | 0≈ 6 | 13°10 | 19° 0 | 18°45 | 8°16 | 5°27 | 29° 0 | 7°44 | 21° 1 | 2°51 | 1°41 | 8°30 | 18°19 | F 25 |
| S 26 | 18 19 6 | 4°50'58 | 15° 6 | 14°35 | 20° 1 | 19°21 | 8°25 | 5°26 | 28°58 | 7°42 | 21° 3 | 2°43 | 1°38 | 8°37 | 18°15 | S 26 |
| S 27 | 18 23 2 | 5°48'09 | 29°53 | 16° 4 | 21° 2 | 19°57 | 8°33 | 5°25 | 28°56 | 7°41 | 21° 4 | 2°36 | 1°35 | 8°44 | 18°12 | S 27 |
| M28 | 18 26 59 | 6°45'19 | 14) (20 | 17°36 | 22° 2 | 20°34 | 8°42 | 5°23 | 28°54 | 7°39 | 21° 5 | 2°32 | 1°31 | 8°50 | 18° 8 | M28 |
| T 29 | 18 30 55 | 7°42'30 | 28°25 | 19°12 | 23° 2 | 21°10 | 8°51 | 5°23 | 28°51 | 7°38 | 21° 7 | 2°30 | 1°28 | 8°57 | 18° 5 | T 29 |
| W30 | 18 34 52 | 8939'41 | 12 ° 6 | 20 Ⅱ 52 | 24 Ω 2 | 21 Ω 46 | 9 m) 0 | 5 M 22 | 28 궁 49 | 7 궁 36 | 21耳 8 | 2°D30 | 1 M 25 | 9Ω 4 | 18 ට 1 | W30 |

Delta T = 36.10 sec

JULY 1660 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | ₽ | ♂ | 4 | ħ |)Å(| # | В | ß | Ω | Ç | ę, | Day |
|------|----------|--------------------|-----------------|----------------|----------------|-----------------|----------------|----------------|----------------|---------------|-----------------|----------------|----------------|----------------|----------------|------|
| T 1 | 18 38 48 | 9936'53 | 25 Y 25 | 22∏34 | 25 N 2 | 22 \O 23 | 9 m , 9 | 5°R21 | 28°R47 | 7°R34 | 21 I I10 | 2°R30 | 1 M 22 | 9Ω11 | 17°R58 | T 1 |
| F 2 | 18 42 45 | 10°34'05 | 8 8 25 | 24°20 | 26° 1 | 22°59 | 9°19 | 5 M 20 | 28 궁 45 | 7 云 33 | 21°11 | 2 M .30 | 1°19 | 9°17 | 17 る 54 | F 2 |
| S 3 | 18 46 41 | 11°31'17 | 21° 9 | 26° 9 | 26°59 | 23°35 | 9°28 | 5°20 | 28°43 | 7°31 | 21°12 | 2°29 | 1°16 | 9°24 | 17°50 | S 3 |
| S 4 | 18 50 38 | 12°28'30 | 3 П 40 | 28° 1 | 27°58 | 24°12 | 9°37 | 5°19 | 28°40 | 7°29 | 21°14 | 2°25 | 1°12 | 9°31 | 17°47 | S 4 |
| M 5 | 18 54 35 | 13°25'43 | 16° 0 | 29°56 | 28°56 | 24°49 | 9°47 | 5°19 | 28°38 | 7°28 | 21°15 | 2°19 | 1° 9 | 9°37 | 17°43 | M 5 |
| T 6 | 18 58 31 | 14°22'56 | 28°12 | 1953 | 29°53 | 25°25 | 9°57 | 5°18 | 28°36 | 7°26 | 21°16 | 2°10 | 1° 6 | 9°44 | 17°39 | T 6 |
| W 7 | 19 2 28 | 15°20'10 | 109517 | 3°53 | 0 m 50 | 26° 2 | 10° 6 | 5°18 | 28°33 | 7°25 | 21°18 | 1°58 | 1° 3 | 9°51 | 17°36 | W 7 |
| T 8 | 19 6 24 | 16°17'24 | 22°16 | 5°55 | 1°47 | 26°38 | 10°16 | 5°D18 | 28°31 | 7°23 | 21°19 | 1°45 | 1° 0 | 9°58 | 17°32 | T 8 |
| F 9 | 19 10 21 | 17°14'38 | 4 Ω 11 | 7°59 | 2°43 | 27°15 | 10°26 | 5°18 | 28°29 | 7°21 | 21°20 | 1°32 | 0°56 | 10° 4 | 17°29 | F 9 |
| S 10 | 19 14 17 | 18°11'53 | 16° 3 | 10° 4 | 3°39 | 27°52 | 10°36 | 5°18 | 28°26 | 7°20 | 21°22 | 1°20 | 0°53 | 10°11 | 17°25 | S 10 |
| S 11 | 19 18 14 | 19° 9'08 | 27°54 | 12°10 | 4°34 | 28°29 | 10°46 | 5°19 | 28°24 | 7°18 | 21°23 | 1° 9 | 0°50 | 10°18 | 17°21 | S 11 |
| M12 | 19 22 10 | 20° 6'23 | 9 m /46 | 14°17 | 5°28 | 29° 6 | 10°56 | 5°19 | 28°22 | 7°17 | 21°24 | 1° 0 | 0°47 | 10°25 | 17°18 | M12 |
| T 13 | 19 26 7 | 21° 3'38 | 21°43 | 16°25 | 6°22 | 29°42 | 11° 7 | 5°19 | 28°19 | 7°15 | 21°25 | 0°55 | 0°44 | 10°31 | 17°14 | T 13 |
| W14 | 19 30 4 | 22° 0'53 | 3 ≏ 48 | 18°33 | 7°16 | 0 m p19 | 11°17 | 5°20 | 28°17 | 7°14 | 21°27 | 0°52 | 0°41 | 10°38 | 17°10 | W14 |
| T 15 | 19 34 0 | 22°58'09 | 16° 7 | 20°42 | 8° 9 | 0°56 | 11°27 | 5°20 | 28°15 | 7°12 | 21°28 | 0°51 | 0°37 | 10°45 | 17° 7 | T 15 |
| F 16 | 19 37 57 | 23°55'25 | 28°43 | 22°49 | 9° 1 | 1°33 | 11°38 | 5°21 | 28°12 | 7°11 | 21°29 | 0°51 | 0°34 | 10°51 | 17° 3 | F 16 |
| S 17 | 19 41 53 | 24°52'41 | 11 ML 43 | 24°57 | 9°53 | 2°10 | 11°48 | 5°22 | 28°10 | 7° 9 | 21°30 | 0°50 | 0°31 | 10°58 | 17° 0 | S 17 |
| S 18 | 19 45 50 | 25°49'58 | 25° 9 | 27° 4 | 10°44 | 2°47 | 11°59 | 5°23 | 28° 7 | 7° 7 | 21°32 | 0°49 | 0°28 | 11° 5 | 16°56 | S 18 |
| M19 | 19 49 46 | 26°47'15 | 9 √ 5 | 29° 9 | 11°35 | 3°24 | 12°10 | 5°24 | 28° 5 | 7° 6 | 21°33 | 0°45 | 0°25 | 11°12 | 16°52 | M19 |
| T 20 | 19 53 43 | 27°44'33 | 23°30 | 1Ω14 | 12°25 | 4° 2 | 12°21 | 5°25 | 28° 3 | 7° 4 | 21°34 | 0°39 | 0°22 | 11°18 | 16°49 | T 20 |
| W21 | 19 57 39 | 28°41'51 | 8 云 21 | 3°18 | 13°14 | 4°39 | 12°31 | 5°26 | 28° 0 | 7° 3 | 21°35 | 0°31 | 0°18 | 11°25 | 16°45 | W21 |
| T 22 | 20 1 36 | 29°39'09 | 23°31 | 5°20 | 14° 2 | 5°16 | 12°42 | 5°27 | 27°58 | 7° 2 | 21°36 | 0°20 | 0°15 | 11°32 | 16°42 | T 22 |
| F 23 | 20 5 33 | 0 Ω 36'29 | 8≈50 | 7°21 | 14°50 | 5°53 | 12°53 | 5°29 | 27°55 | 7° 0 | 21°37 | 0°10 | 0°12 | 11°38 | 16°38 | F 23 |
| S 24 | 20 9 29 | 1°33'49 | 24° 6 | 9°20 | 15°36 | 6°31 | 13° 5 | 5°30 | 27°53 | 6°59 | 21°39 | 29 ≙ 59 | 0° 9 | 11°45 | 16°35 | S 24 |
| S 25 | 20 13 26 | 2°31'10 | 9) 9 | 11°18 | 16°22 | 7° 8 | 13°16 | 5°32 | 27°51 | 6°57 | 21°40 | 29°51 | 0° 6 | 11°52 | 16°31 | S 25 |
| M26 | 20 17 22 | 3°28'32 | 23°49 | 13°14 | 17° 7 | 7°45 | 13°27 | 5°33 | 27°48 | 6°56 | 21°41 | 29°46 | 0° 2 | 11°59 | 16°28 | M26 |
| T 27 | 20 21 19 | 4°25'55 | 8 ℃ 4 | 15° 9 | 17°52 | 8°23 | 13°38 | 5°35 | 27°46 | 6°54 | 21°42 | 29°43 | 29 ≏ 59 | 12° 5 | 16°25 | T 27 |
| W28 | 20 25 15 | 5°23'19 | 21°51 | 17° 2 | 18°35 | 9° 0 | 13°50 | 5°37 | 27°43 | 6°53 | 21°43 | 29°42 | 29°56 | 12°12 | 16°21 | W28 |
| T 29 | 20 29 12 | 6°20'45 | 5 8 11 | 18°54 | 19°17 | 9°38 | 14° 1 | 5°39 | 27°41 | 6°52 | 21°44 | 29°42 | 29°53 | 12°19 | 16°18 | T 29 |
| F 30 | 20 33 8 | 7°18'12 | 18° 8 | 20°44 | 19°59 | 10°15 | 14°12 | 5°41 | 27°39 | 6°50 | 21°45 | 29°41 | 29°50 | 12°26 | 16°15 | F 30 |
| S 31 | 20 37 5 | $8\Omega 15'40$ | 0∏46 | 22 N 32 | 20 m 39 | 10 m 53 | 14 M 24 | 5 M .43 | 27 る 36 | 6 궁 49 | 21 Ⅱ 46 | 29 ≏ 40 | 29 ≏ 47 | 12 Ω 32 | 16 ਰ 11 | S 31 |

Delta T = 36.05 sec

Greg. Calendar

| AUGUST 1660 GC | 00:00 UT |
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| AUGUST 1000 GC | 00.00 01 |

| Day | Sid.t | 0 | D | ğ | · | S | 4 | ħ |)/(| ¥ | Р | ß | ಬ | Ç | ٧٥ | Day |
|------|----------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|------|
| S 1 | 20 41 2 | 9 Ω 13'09 | 13 II 8 | 24₽19 | 21 m 18 | 11 M 30 | 14 M 36 | 5 M .45 | 27°R34 | 6°R48 | 21 II 47 | 29°R36 | 29 ≙ 43 | 12 Ω 39 | 16°R 8 | S 1 |
| M 2 | 20 44 58 | 10°10'40 | 25°19 | 26° 4 | 21°56 | 12° 8 | 14°47 | 5°48 | 27 る 32 | 6 පි 46 | 21°48 | 29 ₽ 29 | 29°40 | 12°46 | 16 ට 5 | M 2 |
| T 3 | 20 48 55 | 11° 8'12 | 79522 | 27°48 | 22°33 | 12°46 | 14°59 | 5°50 | 27°29 | 6°45 | 21°49 | 29°20 | 29°37 | 12°52 | 16° 2 | T 3 |
| W 4 | 20 52 51 | 12° 5'45 | 19°19 | 29°30 | 23° 9 | 13°24 | 15°11 | 5°52 | 27°27 | 6°44 | 21°50 | 29° 8 | 29°34 | 12°59 | 15°59 | W 4 |
| T 5 | 20 56 48 | 13° 3'19 | 1Ω 13 | 1 m p 1 1 | 23°44 | 14° 1 | 15°23 | 5°55 | 27°25 | 6°43 | 21°51 | 28°55 | 29°31 | 13° 6 | 15°56 | T 5 |
| F 6 | 21 0 44 | 14° 0'55 | 13° 5 | 2°50 | 24°17 | 14°39 | 15°34 | 5°58 | 27°22 | 6°41 | 21°52 | 28°42 | 29°27 | 13°13 | 15°53 | F 6 |
| S 7 | 21 441 | 14°58'32 | 24°57 | 4°27 | 24°49 | 15°17 | 15°46 | 6° 0 | 27°20 | 6°40 | 21°53 | 28°29 | 29°24 | 13°19 | 15°50 | S 7 |
| S 8 | 21 8 37 | 15°56'10 | 6 m 49 | 6° 3 | 25°20 | 15°55 | 15°58 | 6° 3 | 27°18 | 6°39 | 21°54 | 28°18 | 29°21 | 13°26 | 15°47 | S 8 |
| M 9 | 21 12 34 | 16°53'49 | 18°45 | 7°38 | 25°49 | 16°33 | 16°10 | 6° 6 | 27°16 | 6°38 | 21°55 | 28° 9 | 29°18 | 13°33 | 15°44 | M 9 |
| T 10 | 21 16 31 | 17°51'29 | 0 ჲ 46 | 9°10 | 26°16 | 17°11 | 16°22 | 6° 9 | 27°14 | 6°37 | 21°56 | 28° 3 | 29°15 | 13°39 | 15°41 | T 10 |
| W11 | 21 20 27 | 18°49'10 | 12°55 | 10°42 | 26°42 | 17°49 | 16°35 | 6°12 | 27°11 | 6°36 | 21°57 | 28° 0 | 29°12 | 13°46 | 15°38 | W11 |
| T 12 | 21 24 24 | 19°46'53 | 25°15 | 12°12 | 27° 7 | 18°27 | 16°47 | 6°16 | 27° 9 | 6°35 | 21°57 | 27°D59 | 29° 8 | 13°53 | 15°36 | T 12 |
| F 13 | 21 28 20 | 20°44'36 | 7 M 52 | 13°40 | 27°30 | 19° 5 | 16°59 | 6°19 | 27° 7 | 6°33 | 21°58 | 28° 0 | 29° 5 | 14° 0 | 15°33 | F 13 |
| S 14 | 21 32 17 | 21°42'21 | 20°48 | 15° 7 | 27°51 | 19°43 | 17°11 | 6°22 | 27° 5 | 6°32 | 21°59 | 28°R 0 | 29° 2 | 14° 6 | 15°30 | S 14 |
| S 15 | 21 36 13 | 22°40'07 | 4 才 9 | 16°32 | 28°10 | 20°22 | 17°24 | 6°26 | 27° 3 | 6°31 | 22° 0 | 27°59 | 28°59 | 14°13 | 15°28 | S 15 |
| M16 | 21 40 10 | 23°37'53 | 17°57 | 17°56 | 28°27 | 21° 0 | 17°36 | 6°29 | 27° 1 | 6°30 | 22° 1 | 27°57 | 28°56 | 14°20 | 15°25 | M16 |
| T 17 | 21 44 6 | 24°35'42 | 2 る 12 | 19°17 | 28°42 | 21°38 | 17°48 | 6°33 | 26°59 | 6°30 | 22° 1 | 27°52 | 28°53 | 14°26 | 15°23 | T 17 |
| W18 | 21 48 3 | 25°33'31 | 16°54 | 20°38 | 28°56 | 22°16 | 18° 1 | 6°37 | 26°57 | 6°29 | 22° 2 | 27°46 | 28°49 | 14°33 | 15°20 | W18 |
| T 19 | 21 52 0 | 26°31'21 | 1≈57 | 21°56 | 29° 7 | 22°55 | 18°13 | 6°40 | 26°55 | 6°28 | 22° 3 | 27°37 | 28°46 | 14°40 | 15°18 | T 19 |
| F 20 | 21 55 56 | 27°29'13 | 17°13 | 23°13 | 29°16 | 23°33 | 18°26 | 6°44 | 26°53 | 6°27 | 22° 4 | 27°28 | 28°43 | 14°47 | 15°16 | F 20 |
| S 21 | 21 59 53 | 28°27'07 | 2) (30 | 24°28 | 29°23 | 24°12 | 18°38 | 6°48 | 26°51 | 6°26 | 22° 4 | 27°20 | 28°40 | 14°53 | 15°14 | S 21 |
| S 22 | 22 3 49 | 29°25'01 | 17°37 | 25°41 | 29°28 | 24°50 | 18°51 | 6°52 | 26°49 | 6°25 | 22° 5 | 27°13 | 28°37 | 15° 0 | 15°11 | S 22 |
| M23 | 22 7 46 | 0 ₯ 22'58 | 2 Υ 26 | 26°53 | 29°31 | 25°29 | 19° 3 | 6°56 | 26°47 | 6°24 | 22° 6 | 27° 9 | 28°33 | 15° 7 | 15° 9 | M23 |
| T 24 | 22 11 42 | 1°20'56 | 16°50 | 28° 2 | 29°R31 | 26° 7 | 19°16 | 7° 0 | 26°45 | 6°24 | 22° 6 | 27° 6 | 28°30 | 15°13 | 15° 7 | T 24 |
| W25 | 22 15 39 | 2°18'56 | 0 8 45 | 29° 9 | 29°29 | 26°46 | 19°28 | 7° 5 | 26°43 | 6°23 | 22° 7 | 27°D 6 | 28°27 | 15°20 | 15° 5 | W25 |
| T 26 | 22 19 35 | 3°16'59 | 14°12 | 0 ჲ 14 | 29°25 | 27°25 | 19°41 | 7° 9 | 26°42 | 6°22 | 22° 7 | 27° 7 | 28°24 | 15°27 | 15° 3 | T 26 |
| F 27 | 22 23 32 | 4°15'03 | 27°13 | 1°16 | 29°18 | 28° 3 | 19°54 | 7°13 | 26°40 | 6°21 | 22° 8 | 27° 8 | 28°21 | 15°34 | 15° 2 | F 27 |
| S 28 | 22 27 29 | 5°13'09 | 9∏52 | 2°16 | 29° 9 | 28°42 | 20° 6 | 7°18 | 26°38 | 6°21 | 22° 8 | 27°R 8 | 28°18 | 15°40 | 15° 0 | S 28 |
| S 29 | 22 31 25 | 6°11'17 | 22°13 | 3°14 | 28°58 | 29°21 | 20°19 | 7°22 | 26°36 | 6°20 | 22° 9 | 27° 6 | 28°14 | 15°47 | 14°58 | S 29 |
| M30 | 22 35 22 | 7° 9'27 | 49521 | 4° 9 | 28°44 | 29°59 | 20°32 | 7°27 | 26°35 | 6°20 | 22° 9 | 27° 3 | 28°11 | 15°54 | 14°57 | M30 |
| T 31 | 22 39 18 | 8 m) 7'39 | 16920 | 5 <u>ი</u> 0 | 28 m 28 | ე ჲ 39 | 20 m 45 | 7 M 32 | 26 궁 33 | 6 ට 19 | 22 I I10 | 26 ≏ 57 | 28 ♀ 8 | 16 Ω 1 | 14 る 55 | T 31 |

Delta T = 35.99 sec

SEPTEMBER 1660 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | Q | ♂ | 4 | ħ |)Å(| ¥ | Р | ß | v | ţ | ę, | Day |
|------|----------|------------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|---------------|-----------------|----------------|----------------|----------------|----------------|------|
| W 1 | 22 43 15 | 9 m 5'53 | 289513 | 5 Ω 49 | 28°R 9 | 1 ≏ 18 | 20 m 58 | 7 M .36 | 26°R32 | 6°R18 | 22 I I10 | 26°R50 | 28 ♀ 5 | 16 Ω 7 | 14°R53 | W 1 |
| T 2 | 22 47 11 | 10° 4'09 | 10Ω 5 | 6°34 | 27 m /48 | 1°57 | 21°10 | 7°41 | 26 궁 30 | 6 ප 18 | 22°11 | 26 ≏ 41 | 28° 2 | 16°14 | 14 궁 52 | T 2 |
| F 3 | 22 51 8 | 11° 2'26 | 21°57 | 7°16 | 27°26 | 2°36 | 21°23 | 7°46 | 26°29 | 6°17 | 22°11 | 26°32 | 27°59 | 16°21 | 14°51 | F 3 |
| S 4 | 22 55 4 | 12° 0'46 | 3 m 51 | 7°54 | 27° 1 | 3°15 | 21°36 | 7°51 | 26°27 | 6°17 | 22°12 | 26°24 | 27°55 | 16°27 | 14°49 | S 4 |
| S 5 | 22 59 1 | 12°59'07 | 15°49 | 8°27 | 26°34 | 3°54 | 21°49 | 7°56 | 26°26 | 6°17 | 22°12 | 26°17 | 27°52 | 16°34 | 14°48 | S 5 |
| M 6 | 23 2 58 | 13°57'31 | 27°52 | 8°57 | 26° 5 | 4°33 | 22° 2 | 8° 1 | 26°24 | 6°16 | 22°12 | 26°11 | 27°49 | 16°41 | 14°47 | M 6 |
| T 7 | 23 6 54 | 14°55'56 | 10 ♀ 3 | 9°21 | 25°35 | 5°12 | 22°15 | 8° 6 | 26°23 | 6°16 | 22°13 | 26° 8 | 27°46 | 16°48 | 14°46 | T 7 |
| W 8 | 23 10 51 | 15°54'22 | 22°22 | 9°41 | 25° 3 | 5°52 | 22°28 | 8°12 | 26°22 | 6°16 | 22°13 | 26°D 7 | 27°43 | 16°54 | 14°45 | W 8 |
| T 9 | 23 14 47 | 16°52'51 | 4 M .53 | 9°55 | 24°29 | 6°31 | 22°41 | 8°17 | 26°20 | 6°15 | 22°13 | 26° 7 | 27°39 | 17° 1 | 14°44 | T 9 |
| F 10 | 23 18 44 | 17°51'21 | 17°37 | 10° 3 | 23°55 | 7°10 | 22°54 | 8°22 | 26°19 | 6°15 | 22°14 | 26° 8 | 27°36 | 17° 8 | 14°43 | F 10 |
| S 11 | 23 22 40 | 18°49'53 | 0 ∡ 38 | 10°R 5 | 23°19 | 7°50 | 23° 7 | 8°28 | 26°18 | 6°15 | 22°14 | 26°10 | 27°33 | 17°14 | 14°43 | S 11 |
| S 12 | 23 26 37 | 19°48'27 | 13°58 | 10° 1 | 22°43 | 8°29 | 23°20 | 8°33 | 26°17 | 6°15 | 22°14 | 26°R11 | 27°30 | 17°21 | 14°42 | S 12 |
| M13 | 23 30 33 | 20°47'02 | 27°40 | 9°50 | 22° 7 | 9° 9 | 23°33 | 8°39 | 26°16 | 6°14 | 22°14 | 26°11 | 27°27 | 17°28 | 14°41 | M13 |
| T 14 | 23 34 30 | 21°45'39 | 11 る 44 | 9°33 | 21°30 | 9°48 | 23°46 | 8°44 | 26°15 | 6°14 | 22°14 | 26° 9 | 27°24 | 17°35 | 14°41 | T 14 |
| W15 | 23 38 26 | 22°44'18 | 26°10 | 9° 8 | 20°53 | 10°28 | 23°58 | 8°50 | 26°14 | 6°14 | 22°15 | 26° 6 | 27°20 | 17°41 | 14°40 | W15 |
| T 16 | 23 42 23 | 23°42'58 | 10≈55 | 8°36 | 20°16 | 11° 8 | 24°11 | 8°56 | 26°13 | 6°14 | 22°15 | 26° 2 | 27°17 | 17°48 | 14°40 | T 16 |
| F 17 | 23 46 20 | 24°41'40 | 25°52 | 7°57 | 19°39 | 11°47 | 24°24 | 9° 1 | 26°12 | 6°D14 | 22°15 | 25°58 | 27°14 | 17°55 | 14°40 | F 17 |
| S 18 | 23 50 16 | 25°40'24 | 10 ∺ 53 | 7°11 | 19° 4 | 12°27 | 24°37 | 9° 7 | 26°11 | 6°14 | 22°15 | 25°53 | 27°11 | 18° 1 | 14°39 | S 18 |
| S 19 | 23 54 13 | 26°39'10 | 25°50 | 6°19 | 18°29 | 13° 7 | 24°50 | 9°13 | 26°10 | 6°14 | 22°15 | 25°50 | 27° 8 | 18° 8 | 14°39 | S 19 |
| M20 | 23 58 9 | 27°37'57 | 10 Y 33 | 5°21 | 17°55 | 13°46 | 25° 3 | 9°19 | 26° 9 | 6°14 | 22°15 | 25°48 | 27° 4 | 18°15 | 14°D39 | M20 |
| T 21 | 0 2 6 | 28°36'47 | 24°56 | 4°19 | 17°23 | 14°26 | 25°16 | 9°25 | 26° 9 | 6°14 | 22°R15 | 25°D47 | 27° 1 | 18°22 | 14°39 | T 21 |
| W22 | 0 6 2 | 29°35'39 | 8 8 55 | 3°14 | 16°53 | 15° 6 | 25°29 | 9°31 | 26° 8 | 6°15 | 22°15 | 25°47 | 26°58 | 18°28 | 14°39 | W22 |
| T 23 | 0 9 59 | 0 ₾ 34'33 | 22°27 | 2° 6 | 16°24 | 15°46 | 25°42 | 9°37 | 26° 7 | 6°15 | 22°15 | 25°49 | 26°55 | 18°35 | 14°39 | T 23 |
| F 24 | 0 13 55 | 1°33'30 | 5 ∏ 34 | 0°59 | 15°57 | 16°26 | 25°55 | 9°43 | 26° 7 | 6°15 | 22°15 | 25°50 | 26°52 | 18°42 | 14°40 | F 24 |
| S 25 | 0 17 52 | 2°32'28 | 18°18 | 29 m 53 | 15°32 | 17° 6 | 26° 8 | 9°49 | 26° 6 | 6°15 | 22°15 | 25°52 | 26°49 | 18°48 | 14°40 | S 25 |
| S 26 | 0 21 49 | 3°31'30 | 0ණ43 | 28°50 | 15° 9 | 17°46 | 26°21 | 9°55 | 26° 6 | 6°15 | 22°15 | 25°R52 | 26°45 | 18°55 | 14°40 | S 26 |
| M27 | 0 25 45 | 4°30'33 | 12°52 | 27°52 | 14°48 | 18°27 | 26°34 | 10° 2 | 26° 5 | 6°16 | 22°15 | 25°52 | 26°42 | 19° 2 | 14°41 | M27 |
| T 28 | 0 29 42 | 5°29'39 | 24°51 | 27° 1 | 14°30 | 19° 7 | 26°47 | 10° 8 | 26° 5 | 6°16 | 22°15 | 25°51 | 26°39 | 19° 8 | 14°41 | T 28 |
| W29 | 0 33 38 | 6°28'47 | 6Ω44 | 26°19 | 14°14 | 19°47 | 27° 0 | 10°14 | 26° 5 | 6°16 | 22°14 | 25°49 | 26°36 | 19°15 | 14°42 | W29 |
| T 30 | 0 37 35 | 7 ≏ 27'57 | 18 Ω 36 | 25 m 45 | 14 MD 0 | 20 ≏ 27 | 27 m 13 | 10M20 | 26 궁 4 | 6 ਰ 17 | 22 Ⅱ 14 | 25 ≏ 46 | 26 ≏ 33 | 19 £ 22 | 14 궁 43 | T 30 |

Delta T = 35.93 sec

Greg. Calendar

OCTOBER 1660 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | Р | ₽. | Ω | Ç | Š. | Day |
|------|---------|-------------------|----------------|-----------------|----------------|----------------|---------------|----------------|-----------------|---------------|-----------------|----------------|----------------|-----------------|-----------------|------|
| F 1 | 0 41 31 | 8 ₾ 27'10 | 0 m 29 | 25°R21 | 13°R49 | 21 ♀ 8 | 27 Mp 26 | 10 M 27 | 26°R 4 | 6 ට 17 | 22°R14 | 25°R43 | 26 <u>₽</u> 30 | 19 Ω 29 | 14 궁 43 | F 1 |
| S 2 | 0 45 28 | 9°26'24 | 12°27 | 25 m) 7 | 13 m 41 | 21°48 | 27°38 | 10°33 | 26 궁 4 | 6°18 | 22 I I14 | 25 ≏ 41 | 26°26 | 19°35 | 14°44 | S 2 |
| S 3 | 0 49 24 | 10°25'41 | 24°32 | 25°D 5 | 13°34 | 22°29 | 27°51 | 10°40 | 26° 4 | 6°18 | 22°14 | 25°38 | 26°23 | 19°42 | 14°45 | S 3 |
| M 4 | 0 53 21 | 11°25'00 | 6 ≏ 47 | 25°13 | 13°31 | 23° 9 | 28° 4 | 10°46 | 26° 4 | 6°19 | 22°13 | 25°37 | 26°20 | 19°49 | 14°46 | M 4 |
| T 5 | 0 57 18 | 12°24'21 | 19°12 | 25°32 | 13°D29 | 23°50 | 28°17 | 10°53 | 26°D 4 | 6°19 | 22°13 | 25°36 | 26°17 | 19°55 | 14°47 | T 5 |
| W 6 | 1 1 14 | 13°23'44 | 1 M .48 | 26° 0 | 13°30 | 24°30 | 28°30 | 11° 0 | 26° 4 | 6°20 | 22°13 | 25°D36 | 26°14 | 20° 2 | 14°49 | W 6 |
| T 7 | 1 5 11 | 14°23'10 | 14°37 | 26°38 | 13°34 | 25°11 | 28°42 | 11° 6 | 26° 4 | 6°21 | 22°12 | 25°37 | 26°10 | 20° 9 | 14°50 | T 7 |
| F 8 | 1 9 7 | 15°22'37 | 27°39 | 27°25 | 13°39 | 25°52 | 28°55 | 11°13 | 26° 4 | 6°21 | 22°12 | 25°38 | 26° 7 | 20°16 | 14°51 | F 8 |
| S 9 | 1 13 4 | 16°22'06 | 10 ∡ 55 | 28°19 | 13°47 | 26°32 | 29° 8 | 11°20 | 26° 4 | 6°22 | 22°12 | 25°39 | 26° 4 | 20°22 | 14°53 | S 9 |
| S 10 | 1 17 0 | 17°21'37 | 24°26 | 29°21 | 13°57 | 27°13 | 29°21 | 11°26 | 26° 4 | 6°23 | 22°11 | 25°39 | 26° 1 | 20°29 | 14°54 | S 10 |
| M11 | 1 20 57 | 18°21'09 | 8 ට 10 | 0 ჲ 29 | 14° 9 | 27°54 | 29°33 | 11°33 | 26° 5 | 6°24 | 22°11 | 25°40 | 25°58 | 20°36 | 14°56 | M11 |
| T 12 | 1 24 53 | 19°20'44 | 22°10 | 1°43 | 14°24 | 28°35 | 29°46 | 11°40 | 26° 5 | 6°24 | 22°10 | 25°R40 | 25°55 | 20°42 | 14°57 | T 12 |
| W13 | 1 28 50 | 20°20'20 | 6≈22 | 3° 2 | 14°40 | 29°16 | 29°58 | 11°47 | 26° 5 | 6°25 | 22°10 | 25°40 | 25°51 | 20°49 | 14°59 | W13 |
| T 14 | 1 32 47 | 21°19'57 | 20°46 | 4°24 | 14°59 | 29°57 | 0 ჲ 11 | 11°53 | 26° 6 | 6°26 | 22° 9 | 25°39 | 25°48 | 20°56 | 15° 1 | T 14 |
| F 15 | 1 36 43 | 22°19'37 | 5 ₩ 18 | 5°51 | 15°19 | 0 M .38 | 0°23 | 12° 0 | 26° 6 | 6°27 | 22° 9 | 25°39 | 25°45 | 21° 3 | 15° 2 | F 15 |
| S 16 | 1 40 40 | 23°19'18 | 19°52 | 7°20 | 15°41 | 1°19 | 0°36 | 12° 7 | 26° 7 | 6°28 | 22° 8 | 25°39 | 25°42 | 21° 9 | 15° 4 | S 16 |
| S 17 | 1 44 36 | 24°19'01 | 4 Υ24 | 8°52 | 16° 5 | 2° 0 | 0°48 | 12°14 | 26° 8 | 6°29 | 22° 8 | 25°38 | 25°39 | 21°16 | 15° 6 | S 17 |
| M18 | 1 48 33 | 25°18'46 | 18°47 | 10°26 | 16°31 | 2°41 | 1° 1 | 12°21 | 26° 8 | 6°30 | 22° 7 | 25°38 | 25°35 | 21°23 | 15° 8 | M18 |
| T 19 | 1 52 29 | 26°18'32 | 2 8 57 | 12° 1 | 16°58 | 3°22 | 1°13 | 12°28 | 26° 9 | 6°31 | 22° 7 | 25°38 | 25°32 | 21°29 | 15°11 | T 19 |
| W20 | 1 56 26 | 27°18'21 | 16°48 | 13°38 | 17°27 | 4° 4 | 1°25 | 12°35 | 26°10 | 6°32 | 22° 6 | 25°38 | 25°29 | 21°36 | 15°13 | W20 |
| T 21 | 2 0 22 | 28°18'12 | 0 川 19 | 15°15 | 17°58 | 4°45 | 1°38 | 12°42 | 26°10 | 6°33 | 22° 6 | 25°38 | 25°26 | 21°43 | 15°15 | T 21 |
| F 22 | 2 4 19 | 29°18'05 | 13°27 | 16°54 | 18°30 | 5°26 | 1°50 | 12°49 | 26°11 | 6°34 | 22° 5 | 25°38 | 25°23 | 21°50 | 15°17 | F 22 |
| S 23 | 2 8 15 | 0 M .18'01 | 26°14 | 18°32 | 19° 4 | 6° 8 | 2° 2 | 12°56 | 26°12 | 6°35 | 22° 4 | 25°37 | 25°20 | 21°56 | 15°20 | S 23 |
| S 24 | 2 12 12 | 1°17'58 | 8 9 41 | 20°12 | 19°39 | 6°49 | 2°14 | 13° 3 | 26°13 | 6°36 | 22° 4 | 25°37 | 25°16 | 22° 3 | 15°22 | S 24 |
| M25 | 2 16 9 | 2°17'58 | 20°54 | 21°51 | 20°15 | 7°31 | 2°26 | 13°10 | 26°14 | 6°38 | 22° 3 | 25°36 | 25°13 | 22°10 | 15°25 | M25 |
| T 26 | 2 20 5 | 3°18'00 | 2Ω 54 | 23°31 | 20°53 | 8°12 | 2°38 | 13°17 | 26°15 | 6°39 | 22° 2 | 25°D36 | 25°10 | 22°16 | 15°28 | T 26 |
| W27 | 2 24 2 | 4°18'03 | 14°48 | 25°10 | 21°32 | 8°54 | 2°50 | 13°24 | 26°16 | 6°40 | 22° 1 | 25°36 | 25° 7 | 22°23 | 15°30 | W27 |
| T 28 | 2 27 58 | 5°18'09 | 26°40 | 26°50 | 22°12 | 9°36 | 3° 2 | 13°32 | 26°17 | 6°41 | 22° 1 | 25°37 | 25° 4 | 22°30 | 15°33 | T 28 |
| F 29 | 2 31 55 | 6°18'17 | 8 m /34 | 28°29 | 22°54 | 10°17 | 3°14 | 13°39 | 26°19 | 6°43 | 22° 0 | 25°38 | 25° 1 | 22°36 | 15°36 | F 29 |
| S 30 | 2 35 51 | 7°18'28 | 20°34 | OM 8 | 23°36 | 10°59 | 3°26 | 13°46 | 26°20 | 6°44 | 21°59 | 25°39 | 24°57 | 22°43 | 15°39 | S 30 |
| S 31 | 2 39 48 | 8 M L18'40 | 2 ≏ 45 | 1 M 47 | 24 Mp 20 | 11 M 41 | 3 ₾ 38 | 13 M 53 | 26 පි 21 | 6 ප 45 | 21Д58 | 25 ≏ 40 | 24 Ω 54 | 22 \O 50 | 15 පි 42 | S 31 |

Delta T = 35.87 sec

NOVEMBER 1660 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)Å(| 卉 | Р | n | v | Ç | o k | Day |
|------|---------|-------------------|-----------------|-----------------|----------------|----------------|---------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|------|
| M 1 | 2 43 44 | 9 M 18'54 | 15 ≏ 10 | 3M26 | 25 Mg 5 | 12 M 23 | 3 ₾ 50 | 14 M 0 | 26 궁 22 | 6 ප 47 | 21°R58 | 25 ≏ 41 | 24 ♀ 51 | 22 Ω 57 | 15 る 45 | M 1 |
| T 2 | 2 47 41 | 10°19'10 | 27°50 | 5° 4 | 25°50 | 13° 5 | 4° 1 | 14° 7 | 26°24 | 6°48 | 21 Ⅱ 57 | 25°R41 | 24°48 | 23° 3 | 15°48 | T 2 |
| W 3 | 2 51 38 | 11°19'28 | 10 M .46 | 6°42 | 26°37 | 13°47 | 4°13 | 14°14 | 26°25 | 6°50 | 21°56 | 25°41 | 24°45 | 23°10 | 15°51 | W 3 |
| T 4 | 2 55 34 | 12°19'47 | 23°59 | 8°20 | 27°25 | 14°29 | 4°24 | 14°22 | 26°27 | 6°51 | 21°55 | 25°39 | 24°41 | 23°17 | 15°54 | T 4 |
| F 5 | 2 59 31 | 13°20'09 | 7 ,₹ 27 | 9°57 | 28°13 | 15°11 | 4°36 | 14°29 | 26°28 | 6°53 | 21°54 | 25°37 | 24°38 | 23°23 | 15°57 | F 5 |
| S 6 | 3 3 27 | 14°20'32 | 21° 8 | 11°34 | 29° 2 | 15°53 | 4°47 | 14°36 | 26°30 | 6°54 | 21°53 | 25°34 | 24°35 | 23°30 | 16° 1 | S 6 |
| S 7 | 3 7 24 | 15°20'56 | 5ਰ 1 | 13°11 | 29°52 | 16°35 | 4°59 | 14°43 | 26°31 | 6°56 | 21°52 | 25°32 | 24°32 | 23°37 | 16° 4 | S 7 |
| M 8 | 3 11 20 | 16°21'22 | 19° 1 | 14°47 | 0 ჲ 43 | 17°18 | 5°10 | 14°50 | 26°33 | 6°57 | 21°51 | 25°29 | 24°29 | 23°44 | 16° 8 | M 8 |
| T 9 | 3 15 17 | 17°21'50 | 3≈ 7 | 16°23 | 1°35 | 18° 0 | 5°21 | 14°57 | 26°35 | 6°59 | 21°50 | 25°28 | 24°26 | 23°50 | 16°11 | T 9 |
| W10 | 3 19 13 | 18°22'18 | 17°17 | 17°59 | 2°27 | 18°42 | 5°32 | 15° 4 | 26°37 | 7° 1 | 21°50 | 25°D27 | 24°22 | 23°57 | 16°15 | W10 |
| T 11 | 3 23 10 | 19°22'48 | 1) 28 | 19°34 | 3°20 | 19°25 | 5°43 | 15°12 | 26°38 | 7° 2 | 21°49 | 25°27 | 24°19 | 24° 4 | 16°18 | T 11 |
| F 12 | 3 27 7 | 20°23'19 | 15°38 | 21°10 | 4°14 | 20° 7 | 5°54 | 15°19 | 26°40 | 7° 4 | 21°48 | 25°29 | 24°16 | 24°10 | 16°22 | F 12 |
| S 13 | 3 31 3 | 21°23'51 | 29°46 | 22°45 | 5° 9 | 20°50 | 6° 5 | 15°26 | 26°42 | 7° 6 | 21°47 | 25°30 | 24°13 | 24°17 | 16°26 | S 13 |
| S 14 | 3 35 0 | 22°24'25 | 13 Y 48 | 24°19 | 6° 4 | 21°32 | 6°16 | 15°33 | 26°44 | 7° 7 | 21°46 | 25°31 | 24°10 | 24°24 | 16°30 | S 14 |
| M15 | 3 38 56 | 23°25'00 | 27°44 | 25°54 | 7° 0 | 22°15 | 6°27 | 15°40 | 26°46 | 7° 9 | 21°45 | 25°R32 | 24° 7 | 24°30 | 16°33 | M15 |
| T 16 | 3 42 53 | 24°25'36 | 11829 | 27°28 | 7°56 | 22°57 | 6°37 | 15°47 | 26°48 | 7°11 | 21°44 | 25°31 | 24° 3 | 24°37 | 16°37 | T 16 |
| W17 | 3 46 49 | 25°26'14 | 25° 1 | 29° 2 | 8°53 | 23°40 | 6°48 | 15°54 | 26°50 | 7°13 | 21°43 | 25°28 | 24° 0 | 24°44 | 16°41 | W17 |
| T 18 | 3 50 46 | 26°26'53 | 8 Ⅱ 18 | 0 ₮ 36 | 9°50 | 24°23 | 6°58 | 16° 1 | 26°52 | 7°15 | 21°41 | 25°24 | 23°57 | 24°51 | 16°45 | T 18 |
| F 19 | 3 54 42 | 27°27'34 | 21°19 | 2°10 | 10°48 | 25° 6 | 7° 9 | 16° 9 | 26°54 | 7°16 | 21°40 | 25°19 | 23°54 | 24°57 | 16°49 | F 19 |
| S 20 | 3 58 39 | 28°28'16 | 499 2 | 3°44 | 11°47 | 25°48 | 7°19 | 16°16 | 26°57 | 7°18 | 21°39 | 25°13 | 23°51 | 25° 4 | 16°53 | S 20 |
| S 21 | 4 2 36 | 29°28'59 | 16°29 | 5°17 | 12°46 | 26°31 | 7°29 | 16°23 | 26°59 | 7°20 | 21°38 | 25° 7 | 23°47 | 25°11 | 16°58 | S 21 |
| M22 | 4 6 32 | 0 ∡ 129'44 | 28°42 | 6°51 | 13°45 | 27°14 | 7°39 | 16°30 | 27° 1 | 7°22 | 21°37 | 25° 2 | 23°44 | 25°17 | 17° 2 | M22 |
| T 23 | 4 10 29 | 1°30'31 | 10 Ω 43 | 8°24 | 14°45 | 27°57 | 7°49 | 16°37 | 27° 3 | 7°24 | 21°36 | 24°58 | 23°41 | 25°24 | 17° 6 | T 23 |
| W24 | 4 14 25 | 2°31'19 | 22°37 | 9°57 | 15°46 | 28°40 | 7°59 | 16°44 | 27° 6 | 7°26 | 21°35 | 24°56 | 23°38 | 25°31 | 17°10 | W24 |
| T 25 | 4 18 22 | 3°32'08 | 4 Mp 27 | 11°30 | 16°47 | 29°23 | 8° 9 | 16°51 | 27° 8 | 7°28 | 21°34 | 24°D55 | 23°35 | 25°37 | 17°15 | T 25 |
| F 26 | 4 22 18 | 4°32'59 | 16°20 | 13° 3 | 17°48 | 0 ∡ 6 | 8°19 | 16°58 | 27°11 | 7°30 | 21°33 | 24°56 | 23°32 | 25°44 | 17°19 | F 26 |
| S 27 | 4 26 15 | 5°33'52 | 28°20 | 14°36 | 18°50 | 0°50 | 8°28 | 17° 5 | 27°13 | 7°32 | 21°32 | 24°58 | 23°28 | 25°51 | 17°24 | S 27 |
| S 28 | 4 30 11 | 6°34'45 | 10 ≏ 33 | 16° 9 | 19°52 | 1°33 | 8°38 | 17°11 | 27°16 | 7°34 | 21°30 | 24°59 | 23°25 | 25°58 | 17°28 | S 28 |
| M29 | 4 34 8 | 7°35'40 | 23° 2 | 17°42 | 20°55 | 2°16 | 8°47 | 17°18 | 2 <u>7</u> °18 | <u>7°</u> 36 | 21°29 | 25°R 0 | 23°22 | 26° 4 | 1 <u>7</u> °33 | M29 |
| T 30 | 4 38 5 | 8 ∡ ³36'37 | 5 M .51 | 19 .7 15 | 21 ≙ 57 | 3 ∡ 7 0 | 8 ჲ 56 | 17 M 25 | 27 云 21 | 7 云 38 | 21 Ⅱ 28 | 24 ≏ 59 | 23 ≏ 19 | 26 Ω 11 | 17 る 37 | T 30 |

Delta T = 35.82 sec

Greg. Calendar

| DECEMBER 1660 GC | 00:00 UT |
|------------------|----------|

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ | 'n | ¥ | В | ß | S | Ç | ķ | Day |
|------|---------|-------------------|-----------------|----------------|---------------|-----------------|----------------|----------------|-----------------|---------------|-----------------|----------------|----------------|----------------|-----------------|------|
| W 1 | 4 42 1 | 9 .7 37'34 | 19 M 2 | 20 х 48 | 23 <u>₽</u> 1 | 3 , ₹43 | 9 ჲ 6 | 17 M 32 | 27 පි 23 | 7 ප 40 | 21°R27 | 24°R57 | 23 ₽ 16 | 26 Ω 18 | 17 ප් 42 | W 1 |
| T 2 | 4 45 58 | 10°38'33 | 2 ₹ 36 | 22°20 | 24° 4 | 4°26 | 9°15 | 17°39 | 27°26 | 7°42 | 21 II 26 | 24 Ω 52 | 23°13 | 26°24 | 17°46 | T 2 |
| F 3 | 4 49 54 | 11°39'33 | 16°30 | 23°53 | 25° 8 | 5°10 | 9°24 | 17°46 | 27°29 | 7°44 | 21°25 | 24°45 | 23° 9 | 26°31 | 17°51 | F 3 |
| S 4 | 4 53 51 | 12°40'33 | 0 궁 40 | 25°25 | 26°12 | 5°53 | 9°33 | 17°52 | 27°31 | 7°46 | 21°24 | 24°37 | 23° 6 | 26°38 | 17°56 | S 4 |
| S 5 | 4 57 47 | 13°41'35 | 15° 2 | 26°57 | 27°17 | 6°37 | 9°41 | 17°59 | 27°34 | 7°48 | 21°22 | 24°29 | 23° 3 | 26°45 | 18° 1 | S 5 |
| M 6 | 5 1 44 | 14°42'37 | 29°29 | 28°29 | 28°22 | 7°21 | 9°50 | 18° 6 | 27°37 | 7°50 | 21°21 | 24°22 | 23° 0 | 26°51 | 18° 5 | M 6 |
| T 7 | 5 5 40 | 15°43'39 | 13 ≈ 56 | 0ਰ 1 | 29°27 | 8° 4 | 9°58 | 18°12 | 27°40 | 7°52 | 21°20 | 24°16 | 22°57 | 26°58 | 18°10 | T 7 |
| W 8 | 5 9 37 | 16°44'43 | 28°17 | 1°32 | 0MJ32 | 8°48 | 10° 7 | 18°19 | 27°42 | 7°55 | 21°19 | 24°12 | 22°53 | 27° 5 | 18°15 | W 8 |
| T 9 | 5 13 34 | 17°45'46 | 12 米 29 | 3° 3 | 1°38 | 9°32 | 10°15 | 18°26 | 27°45 | 7°57 | 21°18 | 24°D10 | 22°50 | 27°11 | 18°20 | T 9 |
| F 10 | 5 17 30 | 18°46'50 | 26°30 | 4°33 | 2°44 | 10°16 | 10°23 | 18°32 | 27°48 | 7°59 | 21°17 | 24°10 | 22°47 | 27°18 | 18°25 | F 10 |
| S 11 | 5 21 27 | 19°47'54 | 10 Y 21 | 6° 2 | 3°50 | 11° 0 | 10°31 | 18°39 | 27°51 | 8° 1 | 21°15 | 24°11 | 22°44 | 27°25 | 18°30 | S 11 |
| S 12 | 5 25 23 | 20°48'59 | 24° 0 | 7°31 | 4°56 | 11°43 | 10°39 | 18°45 | 27°54 | 8° 3 | 21°14 | 24°R12 | 22°41 | 27°31 | 18°35 | S 12 |
| M13 | 5 29 20 | 21°50'04 | 7 8 29 | 8°59 | 6° 3 | 12°27 | 10°47 | 18°51 | 27°57 | 8° 5 | 21°13 | 24°11 | 22°38 | 27°38 | 18°40 | M13 |
| T 14 | 5 33 16 | 22°51'09 | 20°48 | 10°26 | 7°10 | 13°11 | 10°54 | 18°58 | 28° 0 | 8° 8 | 21°12 | 24° 8 | 22°34 | 27°45 | 18°45 | T 14 |
| W15 | 5 37 13 | 23°52'15 | 3 II 56 | 11°51 | 8°17 | 13°55 | 11° 2 | 19° 4 | 28° 3 | 8°10 | 21°11 | 24° 2 | 22°31 | 27°51 | 18°50 | W15 |
| T 16 | 5 41 9 | 24°53'21 | 16°53 | 13°15 | 9°24 | 14°40 | 11° 9 | 19°10 | 28° 6 | 8°12 | 21° 9 | 23°53 | 22°28 | 27°58 | 18°55 | T 16 |
| F 17 | 5 45 6 | 25°54'28 | 29°38 | 14°36 | 10°32 | 15°24 | 11°16 | 19°17 | 28° 9 | 8°14 | 21° 8 | 23°42 | 22°25 | 28° 5 | 19° 0 | F 17 |
| S 18 | 5 49 3 | 26°55'35 | 129511 | 15°56 | 11°40 | 16° 8 | 11°23 | 19°23 | 28°12 | 8°17 | 21° 7 | 23°30 | 22°22 | 28°12 | 19° 5 | S 18 |
| S 19 | 5 52 59 | 27°56'43 | 24°31 | 17°13 | 12°48 | 16°52 | 11°30 | 19°29 | 28°16 | 8°19 | 21° 6 | 23°18 | 22°19 | 28°18 | 19°10 | S 19 |
| M20 | 5 56 56 | 28°57'51 | 6Ω40 | 18°26 | 13°56 | 17°36 | 11°37 | 19°35 | 28°19 | 8°21 | 21° 5 | 23° 6 | 22°15 | 28°25 | 19°15 | M20 |
| T 21 | 6 0 52 | 29°58'59 | 18°39 | 19°36 | 15° 4 | 18°21 | 11°44 | 19°41 | 28°22 | 8°23 | 21° 4 | 22°57 | 22°12 | 28°32 | 19°21 | T 21 |
| W22 | 6 4 49 | 1る 0,08 | 0 m y31 | 20°41 | 16°13 | 19° 5 | 11°50 | 19°47 | 28°25 | 8°26 | 21° 2 | 22°50 | 22° 9 | 28°38 | 19°26 | W22 |
| T 23 | 6 8 45 | 2° 1'17 | 12°20 | 21°42 | 17°21 | 19°50 | 11°56 | 19°53 | 28°28 | 8°28 | 21° 1 | 22°45 | 22° 6 | 28°45 | 19°31 | T 23 |
| F 24 | 6 12 42 | 3° 2'27 | 24°11 | 22°37 | 18°30 | 20°34 | 12° 3 | 19°59 | 28°32 | 8°30 | 21° 0 | 22°43 | 22° 3 | 28°52 | 19°36 | F 24 |
| S 25 | 6 16 38 | 4° 3'37 | 6 ප 8 | 23°25 | 19°39 | 21°18 | 12° 9 | 20° 5 | 28°35 | 8°32 | 20°59 | 22°D43 | 21°59 | 28°58 | 19°42 | S 25 |
| S 26 | 6 20 35 | 5° 4'47 | 18°17 | 24° 5 | 20°48 | 22° 3 | 12°15 | 20°11 | 28°38 | 8°35 | 20°58 | 22°R43 | 21°56 | 29° 5 | 19°47 | S 26 |
| M27 | 6 24 32 | 6° 5'58 | 0 M .44 | 24°38 | 21°58 | 22°48 | 12°20 | 20°16 | 28°42 | 8°37 | 20°57 | 22°43 | 21°53 | 29°12 | 19°52 | M27 |
| T 28 | 6 28 28 | 7° 7'10 | 13°34 | 25° 1 | 23° 7 | 23°32 | 12°26 | 20°22 | 28°45 | 8°39 | 20°55 | 22°41 | 21°50 | 29°19 | 19°58 | T 28 |
| W29 | 6 32 25 | 8° 8'21 | 26°49 | 25°14 | 24°17 | 24°17 | 12°31 | 20°28 | 28°48 | 8°41 | 20°54 | 22°37 | 21°47 | 29°25 | 20° 3 | W29 |
| T 30 | 6 36 21 | 9° 9'33 | 10 ∡ 32 | 25°R16 | 25°27 | 25° 2 | 12°37 | 20°33 | 2 <u>8</u> °52 | 8°44 | 20°53 | 22°30 | 21°44 | 29°32 | 20° 8 | T 30 |
| F 31 | 6 40 18 | 10ਰ10'45 | 24 × 742 | 25 궁 6 | 26M37 | 25 × 747 | 12 ≏ 42 | 20 M 39 | 28 궁 55 | 8 궁 46 | 20耳52 | 22 ≏ 20 | 21 ≏ 40 | 29 Ω 39 | 20 궁 14 | F 31 |

Delta T = 35.76 sec

JANUARY 1661 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | Q+ | S | 4 | ħ |)Å(| ¥ | В | u | v | ţ | ę, | Day |
|------|---------|-------------------|-----------------|----------------|----------------|----------------|----------------|-----------------|----------------|---------------|--------|----------------|----------------|----------------|----------------|------|
| S 1 | 6 44 14 | 11 궁 11'56 | 9 ට 15 | 24°R45 | 27 M 47 | 26 × 31 | 12 ≏ 47 | 20 M .44 | 28 궁 58 | 8 국 48 | 20°R51 | 22°R 9 | 21 ≏ 37 | 29 Ω 45 | 20 궁 19 | S 1 |
| S 2 | 6 48 11 | 12°13'08 | 24° 3 | 24중12 | 28°57 | 27°16 | 12°51 | 20°49 | 29° 2 | 8°51 | 20耳50 | 21 ≏ 57 | 21°34 | 29°52 | 20°24 | S 2 |
| M 3 | 6 52 8 | 13°14'19 | 8 ≈ 59 | 23°27 | 0 才 7 | 28° 1 | 12°56 | 20°55 | 29° 5 | 8°53 | 20°49 | 21°45 | 21°31 | 29°59 | 20°30 | M 3 |
| T 4 | 6 56 4 | 14°15'30 | 23°52 | 22°32 | 1°17 | 28°46 | 13° 0 | 21° 0 | 29° 9 | 8°55 | 20°48 | 21°36 | 21°28 | 0 m) 5 | 20°35 | T 4 |
| W 5 | 7 0 1 | 15°16'41 | 8) (34 | 21°28 | 2°28 | 29°31 | 13° 5 | 21° 5 | 29°12 | 8°57 | 20°47 | 21°29 | 21°25 | 0°12 | 20°40 | W 5 |
| T 6 | 7 3 57 | 16°17'50 | 23° 1 | 20°17 | 3°39 | 0 궁 16 | 13° 9 | 21°10 | 29°15 | 9° 0 | 20°46 | 21°26 | 21°21 | 0°19 | 20°46 | T 6 |
| F 7 | 7 7 54 | 17°19'00 | 7 Ƴ 9 | 19° 1 | 4°49 | 1° 1 | 13°13 | 21°15 | 29°19 | 9° 2 | 20°45 | 21°24 | 21°18 | 0°25 | 20°51 | F 7 |
| S 8 | 7 11 50 | 18°20'08 | 20°58 | 17°42 | 6° 0 | 1°46 | 13°16 | 21°20 | 29°22 | 9° 4 | 20°44 | 21°24 | 21°15 | 0°32 | 20°57 | S 8 |
| S 9 | 7 15 47 | 19°21'16 | 4 8 28 | 16°22 | 7°11 | 2°31 | 13°20 | 21°25 | 29°26 | 9° 6 | 20°43 | 21°24 | 21°12 | 0°39 | 21° 2 | S 9 |
| M10 | 7 19 43 | 20°22'23 | 1 <u>7</u> °42 | 15° 6 | 8°22 | 3°17 | 13°23 | 21°30 | 29°29 | 9° 9 | 20°41 | 21°22 | 21° 9 | 0°46 | 21° 7 | M10 |
| T 11 | 7 23 40 | 21°23'29 | 0 Ⅱ 41 | 13°53 | 9°33 | 4° 2 | 13°26 | 21°34 | 29°33 | 9°11 | 20°40 | 21°18 | 21° 5 | 0°52 | 21°13 | T 11 |
| W12 | 7 27 37 | 22°24'35 | 13°29 | 12°47 | 10°44 | 4°47 | 13°29 | 21°39 | 29°36 | 9°13 | 20°39 | 21°11 | 21° 2 | 0°59 | 21°18 | W12 |
| T 13 | 7 31 33 | 23°25'39 | 26° 6 | 11°49 | 11°55 | 5°32 | 13°32 | 21°44 | 29°40 | 9°15 | 20°39 | 21° 0 | 20°59 | 1° 6 | 21°24 | T 13 |
| F 14 | 7 35 30 | 24°26'43 | 8 9 33 | 11° 0 | 13° 7 | 6°18 | 13°35 | 21°48 | 29°43 | 9°18 | 20°38 | 20°47 | 20°56 | 1°12 | 21°29 | F 14 |
| S 15 | 7 39 26 | 25°27'47 | 20°52 | 10°19 | 14°18 | 7° 3 | 13°37 | 21°53 | 29°47 | 9°20 | 20°37 | 20°33 | 20°53 | 1°19 | 21°34 | S 15 |
| S 16 | 7 43 23 | 26°28'49 | 3 N 1 | 9°48 | 15°30 | 7°48 | 13°40 | 21°57 | 29°50 | 9°22 | 20°36 | 20°18 | 20°50 | 1°26 | 21°40 | S 16 |
| M17 | 7 47 19 | 27°29'51 | 15° 3 | 9°26 | 16°41 | 8°34 | 13°42 | 22° 1 | 29°54 | 9°24 | 20°35 | 20° 4 | 20°46 | 1°32 | 21°45 | M17 |
| T 18 | 7 51 16 | 28°30'53 | 26°58 | 9°13 | 17°53 | 9°19 | 13°44 | 22° 5 | 29°57 | 9°26 | 20°34 | 19°52 | 20°43 | 1°39 | 21°51 | T 18 |
| W19 | 7 55 12 | 29°31'53 | 8 M /48 | 9°D 9 | 19° 5 | 10° 5 | 13°45 | 22° 9 | 0≈ 1 | 9°28 | 20°33 | 19°43 | 20°40 | 1°46 | 21°56 | W19 |
| T 20 | 7 59 9 | 0≈32'53 | 20°36 | 9°12 | 20°16 | 10°50 | 13°47 | 22°13 | 0° 4 | 9°31 | 20°32 | 19°37 | 20°37 | 1°52 | 22° 1 | T 20 |
| F 21 | 8 3 6 | 1°33'52 | 2 ≏ 26 | 9°23 | 21°28 | 11°36 | 13°48 | 22°17 | 0° 8 | 9°33 | 20°31 | 19°33 | 20°34 | 1°59 | 22° 7 | F 21 |
| S 22 | 8 7 2 | 2°34'51 | 14°21 | 9°41 | 22°40 | 12°22 | 13°50 | 22°21 | 0°11 | 9°35 | 20°30 | 19°32 | 20°30 | 2° 6 | 22°12 | S 22 |
| S 23 | 8 10 59 | 3°35'48 | 26°28 | 10° 6 | 23°52 | 13° 7 | 13°51 | 22°25 | 0°15 | 9°37 | 20°30 | 19°D32 | 20°27 | 2°13 | 22°17 | S 23 |
| M24 | 8 14 55 | 4°36'46 | 8 M .50 | 10°36 | 25° 4 | 13°53 | 13°51 | 22°29 | 0°18 | 9°39 | 20°29 | 19°R32 | 20°24 | 2°19 | 22°23 | M24 |
| T 25 | 8 18 52 | 5°37'42 | 21°35 | 11°12 | 26°17 | 14°39 | 13°52 | 22°32 | 0°22 | 9°41 | 20°28 | 19°31 | 20°21 | 2°26 | 22°28 | T 25 |
| W26 | 8 22 48 | 6°38'38 | 4 ₹ 45 | 11°52 | 27°29 | 15°24 | 13°52 | 22°36 | 0°26 | 9°43 | 20°27 | 19°28 | 20°18 | 2°33 | 22°33 | W26 |
| T 27 | 8 26 45 | 7°39'33 | 18°25 | 12°37 | 28°41 | 16°10 | 13°53 | 22°39 | 0°29 | 9°45 | 20°26 | 19°22 | 20°15 | 2°39 | 22°38 | T 27 |
| F 28 | 8 30 41 | 8°40'27 | 2 る 35 | 13°25 | 29°53 | 16°56 | 13°R53 | 22°43 | 0°33 | 9°47 | 20°26 | 19°14 | 20°11 | 2°46 | 22°44 | F 28 |
| S 29 | 8 34 38 | 9°41'21 | 17°13 | 14°18 | 1පි 6 | 17°42 | 13°53 | 22°46 | 0°36 | 9°50 | 20°25 | 19° 4 | 20° 8 | 2°53 | 22°49 | S 29 |
| S 30 | 8 38 35 | 10°42'13 | 2≈13 | 15°13 | 2°18 | 18°28 | 13°52 | 22°49 | 0°39 | 9°52 | 20°24 | 18°53 | 20° 5 | 2°59 | 22°54 | S 30 |
| M31 | 8 42 31 | 11≈43'04 | 17≈25 | 16 ට 12 | 3 ට 30 | 19 ਰ 14 | 13 ≏ 52 | 22 M 52 | 0≈43 | 9 ප 54 | 20∏23 | 18 ≏ 43 | 20 <u>₽</u> 2 | 3 Mp 6 | 22 궁 59 | M31 |

Delta T = 35.70 sec

Greg. Calendar

FEBRUARY 1661 GC 00:00 UT

| Day | Sid.t | 0 |) | φ | Ф | δ | 4 | ħ |)ţ(| ¥ | Р | R | Ω | Ç | Š. | Day |
|------|----------|------------------|----------------|----------------|---------------|-------|----------------|----------------|------|----------------|----------------|----------------|----------------|---------------|----------------|------|
| T 1 | 8 46 28 | 12≈43'54 | 2) 38 | 17 る 14 | 4 る 43 | 20궁 0 | 13°R51 | 22 M 55 | 0≈46 | 9 ප 56 | 20°R23 | 18°R34 | 19 ≙ 59 | 3 m 13 | 23중 4 | T 1 |
| W 2 | 8 50 24 | 13°44'42 | 17°43 | 18°17 | 5°55 | 20°46 | 13 ≏ 50 | 22°58 | 0°50 | 9°58 | 20Ⅱ22 | 18 ≏ 28 | 19°56 | 3°19 | 23°10 | W 2 |
| T 3 | 8 54 21 | 14°45'29 | 2 Y 30 | 19°24 | 7° 8 | 21°32 | 13°49 | 23° 1 | 0°53 | 9°59 | 20°22 | 18°25 | 19°52 | 3°26 | 23°15 | T 3 |
| F 4 | 8 58 17 | 15°46'14 | 16°54 | 20°32 | 8°21 | 22°18 | 13°48 | 23° 3 | 0°57 | 10° 1 | 20°21 | 18°D24 | 19°49 | 3°33 | 23°20 | F 4 |
| S 5 | 9 2 14 | 16°46'58 | 0 8 54 | 21°43 | 9°33 | 23° 4 | 13°46 | 23° 6 | 1° 0 | 10° 3 | 20°20 | 18°24 | 19°46 | 3°39 | 23°25 | S 5 |
| S 6 | 9 6 10 | 17°47'40 | 14°28 | 22°55 | 10°46 | 23°50 | 13°44 | 23° 8 | 1° 4 | 10° 5 | 20°20 | 18°R25 | 19°43 | 3°46 | 23°30 | S 6 |
| M 7 | 9 10 7 | 18°48'21 | 27°41 | 24° 9 | 11°59 | 24°36 | 13°43 | 23°11 | 1° 7 | 10° 7 | 20°19 | 18°25 | 19°40 | 3°53 | 23°35 | M 7 |
| T 8 | 9 14 4 | 19°48'59 | 10 Ⅲ 34 | 25°25 | 13°11 | 25°22 | 13°41 | 23°13 | 1°10 | 10° 9 | 20°19 | 18°22 | 19°36 | 4° 0 | 23°40 | T 8 |
| W 9 | 9 18 0 | 20°49'36 | 23°10 | 26°42 | 14°24 | 26° 8 | 13°38 | 23°15 | 1°14 | 10°11 | 20°18 | 18°18 | 19°33 | 4° 6 | 23°45 | W 9 |
| T 10 | 9 21 57 | 21°50'12 | 5934 | 28° 1 | 15°37 | 26°54 | 13°36 | 23°17 | 1°17 | 10°13 | 20°18 | 18°11 | 19°30 | 4°13 | 23°50 | T 10 |
| F 11 | 9 25 53 | 22°50'45 | 17°48 | 29°21 | 16°50 | 27°41 | 13°33 | 23°19 | 1°20 | 10°14 | 20°17 | 18° 1 | 19°27 | 4°20 | 23°55 | F 11 |
| S 12 | 9 29 50 | 23°51'17 | 29°54 | 0≈42 | 18° 3 | 28°27 | 13°31 | 23°21 | 1°24 | 10°16 | 20°17 | 17°51 | 19°24 | 4°26 | 23°59 | S 12 |
| S 13 | 9 33 46 | 24°51'48 | 11 Ω 53 | 2° 5 | 19°16 | 29°13 | 13°28 | 23°23 | 1°27 | 10°18 | 20°16 | 17°40 | 19°21 | 4°33 | 24° 4 | S 13 |
| M14 | 9 37 43 | 25°52'16 | 23°48 | 3°29 | 20°29 | 29°59 | 13°24 | 23°25 | 1°30 | 10°20 | 20°16 | 17°30 | 19°17 | 4°40 | 24° 9 | M14 |
| T 15 | 9 41 39 | 26°52'43 | 5 m 39 | 4°54 | 21°42 | 0≈46 | 13°21 | 23°27 | 1°34 | 10°21 | 20°15 | 17°21 | 19°14 | 4°46 | 24°14 | T 15 |
| W16 | 9 45 36 | 27°53'08 | 17°28 | 6°20 | 22°55 | 1°32 | 13°18 | 23°28 | 1°37 | 10°23 | 20°15 | 17°15 | 19°11 | 4°53 | 24°19 | W16 |
| T 17 | 9 49 32 | 28°53'32 | 29°18 | 7°47 | 24° 8 | 2°18 | 13°14 | 23°30 | 1°40 | 10°25 | 20°15 | 17°10 | 19° 8 | 5° 0 | 24°23 | T 17 |
| F 18 | 9 53 29 | 29°53'54 | 11 ≏ 10 | 9°15 | 25°21 | 3° 5 | 13°10 | 23°31 | 1°43 | 10°26 | 20°14 | 17° 9 | 19° 5 | 5° 6 | 24°28 | F 18 |
| S 19 | 9 57 26 | 0 ¥ 54'15 | 23° 9 | 10°45 | 26°34 | 3°51 | 13° 6 | 23°32 | 1°47 | 10°28 | 20°14 | 17°D 8 | 19° 2 | 5°13 | 24°32 | S 19 |
| S 20 | 10 1 22 | 1°54'34 | 5 ™ 17 | 12°16 | 27°47 | 4°38 | 13° 2 | 23°33 | 1°50 | 10°30 | 20°14 | 17°10 | 18°58 | 5°20 | 24°37 | S 20 |
| M21 | 10 5 19 | 2°54'52 | 17°40 | 13°47 | 29° 0 | 5°24 | 12°58 | 23°34 | 1°53 | 10°31 | 20°14 | 17°11 | 18°55 | 5°26 | 24°42 | M21 |
| T 22 | 10 9 15 | 3°55'09 | 0 ₹ 21 | 15°20 | 0≈13 | 6°11 | 12°53 | 23°35 | 1°56 | 10°33 | 20°13 | 17°R12 | 18°52 | 5°33 | 24°46 | T 22 |
| W23 | 10 13 12 | 4°55'23 | 13°26 | 16°54 | 1°26 | 6°57 | 12°48 | 23°36 | 1°59 | 10°34 | 20°13 | 17°12 | 18°49 | 5°40 | 24°51 | W23 |
| T 24 | 10 17 8 | 5°55'37 | 26°57 | 18°28 | 2°39 | 7°44 | 12°44 | 23°37 | 2° 2 | 10°36 | 20°13 | 17°10 | 18°46 | 5°46 | 24°55 | T 24 |
| F 25 | 10 21 5 | 6°55'49 | 10 궁 57 | 20° 4 | 3°53 | 8°30 | 12°39 | 23°37 | 2° 5 | 10°37 | 20°13 | 17° 6 | 18°42 | 5°53 | 24°59 | F 25 |
| S 26 | 10 25 1 | 7°55'59 | 25°25 | 21°41 | 5° 6 | 9°17 | 12°33 | 23°38 | 2° 8 | 10°39 | 20°13 | 17° 1 | 18°39 | 6° 0 | 25° 4 | S 26 |
| S 27 | 10 28 58 | 8°56'08 | 10≈17 | 23°19 | 6°19 | 10° 3 | 12°28 | 23°38 | 2°11 | 10°40 | 20°12 | 16°55 | 18°36 | 6° 7 | 25° 8 | S 27 |
| M28 | 10 32 55 | 9 ¥ 56'15 | 25≈26 | 24≈58 | 7≈32 | 10≈50 | 12 ≏ 23 | 23 M 38 | 2≈14 | 10 ට 42 | 20 Ⅱ 12 | 16 ≏ 49 | 18 ≏ 33 | 6 m 13 | 25 る 12 | M28 |

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|-------------|---------------------|----------------------|-------------------------|----------------|-----------------|----------------|----------------|----------------|--------------|----------------|-----------------|-----------------|----------------|----------------|-----------------|-------------|
| T 1 | 10 36 51 | 10 ¥ 56′20 | 10) (42 | 26≈38 | 8≈46 | 11 ≈ 36 | 12°R17 | 23 M 39 | 2≈17 | 10 궁 43 | 20°R12 | 16°R45 | 18 ≏ 30 | 6 m 20 | 25 궁 16 | T 1 |
| W 2 | 10 40 48 | 11°56'23 | 25°56 | 28°19 | 9°59 | 12°23 | 12 ≏ 11 | 23°R39 | 2°20 | 10°44 | 20 Ⅱ 12 | 16 ≏ 41 | 18°27 | 6°27 | 25°21 | W 2 |
| T 3 | 10 44 44 | 12°56'24 | 10 Y 56 | 0 ¥ 2 | 11°12 | 13° 9 | 12° 6 | 23°39 | 2°23 | 10°46 | 20°12 | 16°D40 | 18°23 | 6°33 | 25°25 | T 3 |
| F 4 S 5 | 10 48 41 | 13°56'24 | 25°35 9 8 49 | 1°45 | 12°26 13°39 | 13°56 | 12° 0 | 23°39 | 2°26 | 10°47 10°48 | 20°D12 20°12 | 16°40 | 18°20 | 6°40 | 25°29 | F 4 |
| - | 10 52 37 | 14°56'21 | _ | 3°30 | | 14°43 | 11°54 | 23°38 | 2°29 | | - | 16°41 | 18°17 | 6°47 | 25°33 | S 5 |
| S 6 | 10 56 34 | 15°56'16 | 23°36 | 5°15 | 14°52 | 15°29 | 11°47 | 23°38 | 2°31 | 10°49 | 20°12 | 16°43 | 18°14 | 6°53 | 25°37 | S 6 |
| M 7 | 11 0 30 | 16°56'08 | 6 II 56 | 7° 2 | 16° 6 | 16°16 | 11°41 | 23°38 | 2°34 | 10°50 | 20°12 | 16°44 | 18°11 | 7° 0 7° 7 | 25°40 | M 7 |
| T 8 W 9 | 11 4 27 11 8 24 | 17°55'59 18°55'47 | 19°52 2 © 28 | 8°50 10°39 | 17°19 18°32 | 17° 3 17°49 | 11°35 11°28 | 23°37 23°37 | 2°37 2°40 | 10°52 10°53 | 20°12 20°12 | 16°R45 16°44 | 18° 8 18° 4 | 7°13 | 25°44 25°48 | T 8 W 9 |
| T 10 | 11 8 24 | 18 33 47 19°55'33 | 14°48 | 10°39 12°30 | 18 32 19°46 | 17 49 18°36 | 11°21 | 23°36 | 2°42 | 10°54 | 20°12 20°13 | 16°42 | 18° 1 | 7°20 | 25°52 | T 10 |
| F 11 | 11 16 17 | 20°55'16 | 26°56 | 14°21 | 20°59 | 19°23 | 11°15 | 23°35 | 2°45 | 10°55 | 20°13 | 16°38 | 17°58 | 7°27 | 25°55 | F 11 |
| S 12 | 11 20 13 | 21°54'58 | 8€54 | 16°14 | 22°12 | 20° 9 | 11° 8 | 23°34 | 2°48 | 10°56 | 20°13 | 16°34 | 17°55 | 7°33 | 25°59 | S 12 |
| S 13 | 11 24 10 | 22°54'37 | 20°47 | 18° 8 | 23°26 | 20°56 | 11° 1 | 23°33 | 2°50 | 10°57 | 20°13 | 16°30 | 17°52 | 7°40 | 26° 3 | S 13 |
| M14 | 11 28 6 | 23°54'14 | 2m) 37 | 20° 3 | 24°39 | 21°43 | 10°54 | 23°32 | 2°53 | 10°58 | 20°13 | 16°26 | 17°48 | 7°47 | 26° 6 | M14 |
| T 15 | 11 32 3 | 24°53'49 | 14°27 | 21°59 | 25°53 | 22°29 | 10°47 | 23°31 | 2°55 | 10°59 | 20°14 | 16°23 | 17°45 | 7°53 | 26°10 | T 15 |
| W16 | 11 35 59 | 25°53'22 | 26°18 | 23°57 | 27° 6 | 23°16 | 10°39 | 23°29 | 2°58 | 11° 0 | 20°14 | 16°21 | 17°42 | 8° 0 | 26°13 | W16 |
| T 17 | 11 39 56 | 26°52'52 | 8 ≏ 12 | 25°55 | 28°20 | 24° 3 | 10°32 | 23°28 | 3° 0 | 11° 1 | 20°14 | 16°19 | 17°39 | 8° 7 | 26°16 | T 17 |
| F 18 | 11 43 52 | 27°52'21 | 20°13 | 27°54 | 29°33 | 24°49 | 10°25 | 23°27 | 3° 2 | 11° 2 | 20°14 | 16°D19 | 17°36 | 8°13 | 26°20 | F 18 |
| S 19 | 11 47 49 | 28°51'48 | 2 M 20 | 29°55 | 0) (46 | 25°36 | 10°17 | 23°25 | 3° 5 | 11° 2 | 20°15 | 16°20 | 17°33 | 8°20 | 26°23 | S 19 |
| S 20 | 11 51 46 | 29°51'13 | 14°38 | 1 Y 56 | 2° 0 | 26°23 | 10°10 | 23°23 | 3° 7 | 11° 3 | 20°15 | 16°21 | 17°29 | 8°27 | 26°26 | S 20 |
| M21 | 11 55 42 | 0 Υ 50'36 | 27° 9 | 3°57 | 3°13 | 27° 9 | 10° 2 | 23°22 | 3° 9 | 11° 4 | 20°15 | 16°22 | 17°26 | 8°33 | 26°29 | M21 |
| T 22 W23 | 11 59 39 12 3 35 | 1°49'57 2°49'17 | 9 ∡ 756 23° 1 | 6° 0 8° 2 | 4°27 5°40 | 27°56 28°43 | 9°55 9°47 | 23°20 23°18 | 3°12 3°14 | 11° 5 11° 5 | 20°16 20°16 | 16°24 16°24 | 17°23 17°20 | 8°40 8°47 | 26°32 26°35 | T 22 W23 |
| T 24 | 12 3 33 | 3°48'34 | 6 중 28 | 10° 5 | 6°54 | 28 43 29°30 | 9°47 9°40 | 23°16 | 3°16 | 11° 6 | 20°17 | 16°R25 | 17°17 | 8°53 | 26°38 | T 24 |
| F 25 | 12 11 28 | 4°47'51 | 20°17 | 10° 7 | 8° 7 | 0 ∺ 16 | 9°32 | 23°13 | 3°18 | 11° 7 | 20°17 | 16°24 | 17°13 | 9° 0 | 26°41 | F 25 |
| S 26 | 12 15 25 | 5°47'05 | 4≈30 | 14° 9 | 9°21 | 1° 3 | 9°24 | 23°11 | 3°20 | 11° 7 | 20°18 | 16°23 | 17°10 | 9° 7 | 26°44 | S 26 |
| S 27 | 12 19 21 | 6°46'17 | 19° 4 | 16°11 | 10°34 | 1°50 | 9°17 | 23° 9 | 3°22 | 11° 8 | 20°18 | 16°22 | 17° 7 | 9°13 | 26°46 | S 27 |
| M28 | 12 23 18 | 7°45'28 | 3) €55 | 18°11 | 11°48 | 2°36 | 9° 9 | 23° 7 | 3°24 | 11° 8 | 20°19 | 16°21 | 17° 4 | 9°20 | 26°49 | M28 |
| T 29 | 12 27 15 | 8°44'36 | 18°57 | 20°10 | 13° 1 | 3°23 | 9° 1 | 23° 4 | 3°26 | 11° 9 | 20°19 | 16°20 | 17° 1 | 9°27 | 26°52 | T 29 |
| W30 | 12 31 11 | 9°43'43 | 4 Υ 0 | 22° 7 | 14°15 | 4°10 | 8°53 | 23° 1 | 3°28 | 1 <u>1°</u> 9 | 20°20 | 16°20 | 16°58 | 9°33 | 2 <u>6</u> °54 | W30 |
| T31 | 12 35 8 | 10 Y 42'48 | 18 Y 56 | 24 Y 2 | 15 ¥ 28 | 4) ₹56 | 8 ≏ 46 | 22 M 59 | 3≈30 | 11 궁 10 | 20∏20 | 16°D20 | 16 ≏ 54 | 9 m /40 | 26 පි 56 | T 31 |

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| F 1 | 12 39 4 | 11 ° 41'50 | 3 8 38 | 25 Y 54 | 16) (42 | 5) (43 | 8°R38 | 22°R56 | 3≈32 | 11 궁 10 | 20∏21 | 16 ♀ 20 | 16 ♀ 51 | 9 m 47 | 26 궁 59 | F 1 |
| S 2 | 12 43 1 | 12°40'51 | 17°58 | 27°44 | 17°55 | 6°30 | 8 亞 30 | 22 M 53 | 3°33 | 11°10 | 20°22 | 16°20 | 16°48 | 9°53 | 27° 1 | S 2 |
| S 3 | 12 46 57 | 13°39'49 | 1∏54 | 29°30 | 19° 9 | 7°16 | 8°23 | 22°50 | 3°35 | 11°11 | 20°22 | 16°21 | 16°45 | 10° 0 | 27° 3 | S 3 |
| M 4 | 12 50 54 | 14°38'45 | 15°23 | 1813 | 20°22 | 8° 3 | 8°15 | 22°47 | 3°37 | 11°11 | 20°23 | 16°21 | 16°42 | 10° 7 | 27° 6 | M 4 |
| T 5 | 12 54 50 | 15°37'39 | 28°27 | 2°51 | 21°36 | 8°50 | 8° 7 | 22°44 | 3°38 | 11°11 | 20°24 | 16°21 | 16°39 | 10°14 | 27° 8 | T 5 |
| W 6 | 12 58 47 | 16°36'31 | 1199 8 | 4°26 | 22°49 | 9°36 | 8° 0 | 22°41 | 3°40 | 11°12 | 20°24 | 16°21 | 16°35 | 10°20 | 27°10 | W 6 |
| T 7 | 13 2 44 | 17°35'20 | 23°29 | 5°56 | 24° 3 | 10°23 | 7°52 | 22°38 | 3°41 | 11°12 | 20°25 | 16°21 | 16°32 | 10°27 | 27°12 | T 7 |
| F 8 | 13 6 40 | 18°34'07 | 5 Ω 36 | 7°21 | 25°16 | 11° 9 | 7°45 | 22°35 | 3°43 | 11°12 | 20°26 | 16°21 | 16°29 | 10°34 | 27°14 | F 8 |
| S 9 | 13 10 37 | 19°32'51 | 17°33 | 8°41 | 26°30 | 11°56 | 7°37 | 22°31 | 3°44 | 11°12 | 20°26 | 16°21 | 16°26 | 10°40 | 27°15 | S 9 |
| S 10 | 13 14 33 | 20°31'34 | 29°24 | 9°57 | 27°43 | 12°42 | 7°30 | 22°28 | 3°46 | 11°12 | 20°27 | 16°22 | 16°23 | 10°47 | 27°17 | S 10 |
| M11 | 13 18 30 | 21°30'14 | 11 m 12 | 11° 7 | 28°57 | 13°29 | 7°23 | 22°25 | 3°47 | 11°12 | 20°28 | 16°22 | 16°19 | 10°54 | 27°19 | M11 |
| T 12 | 13 22 26 | 22°28'52 | 23° 3 | 12°11 | 0 Υ 10 | 14°15 | 7°15 | 22°21 | 3°48 | 11°R12 | 20°29 | 16°23 | 16°16 | 11° 0 | 27°20 | T 12 |
| W13 | 13 26 23 | 23°27'28 | 4 Ω 58 | 13°10 | 1°24 | 15° 2 | 7° 8 | 22°18 | 3°50 | 11°12 | 20°30 | 16°23 | 16°13 | 11° 7 | 27°22 | W13 |
| T 14 | 13 30 19 | 24°26'01 | 17° 0 | 14° 4 | 2°37 | 15°48 | 7° 1 | 22°14 | 3°51 | 11°12 | 20°31 | 16°R23 | 16°10 | 11°14 | 27°23 | T 14 |
| F 15 S 16 | 13 34 16 | 25°24'33 | 29°12 11 M .35 | 14°51 15°34 | 3°51 | 16°35 17°21 | 6°54 6°47 | 22°10 22° 6 | 3°52 3°53 | 11°12 11°12 | 20°31 20°32 | 16°23 16°22 | 16° 7 16° 4 | 11°20 11°27 | 27°25 27°26 | F 15 S 16 |
| | 13 38 12 | 26°23'03 | | | 5° 4 | | | | | | | - | - | - | | |
| S 17 | 13 42 9 | 27°21'32 | 24° 9 | 16°10 | 6°18 | 18° 8 | 6°40 | 22° 3 | 3°54 | 11°12 | 20°33 | 16°21 | 16° 0 | 11°34 | 27°27 | S 17 |
| M18 | 13 46 6 | 28°19'58 | 6 ₹ 57 | 16°40 | 7°31 | 18°54 | 6°33 | 21°59 | 3°55 | 11°12 | 20°34 | 16°20 | 15°57 | 11°40 | 27°28 | M18 |
| T 19 | 13 50 2 | 29°18'23 | 19°59 | 17° 5 | 8°45 | 19°40 | 6°27 | 21°55 | 3°56 | 11°11 | 20°35 | 16°18 | 15°54 | 11°47 | 27°30 | T 19 |
| W20 T 21 | 13 53 59 13 57 55 | 0 8 16'46 1°15'08 | 3 궁 16 16°48 | 17°23 17°36 | 9°58 11°12 | 20°27 21°13 | 6°20 6°14 | 21°51 21°47 | 3°57 3°58 | 11°11 11°11 | 20°36 20°37 | 16°16 16°15 | 15°51 15°48 | 11°54 12° 0 | 27°31 27°32 | W20 T 21 |
| F 22 | 14 1 52 | 2°13'28 | 0 ≈ 35 | 17°43 | 11 12 12°25 | 21°59 | 6° 7 | 21°43 | 3°59 | 11°11 | 20°38 | 16°D15 | 15°44 | 12° 7 | 27°32 | F 22 |
| S 23 | 14 5 48 | 3°11'46 | 14°38 | 17°R45 | 13°39 | 21°39 22°46 | 6° 1 | 21°39 | 4° 0 | 11°10 | 20°39 | 16°15 | 15°41 | 12°14 | 27°33 | S 23 |
| | | | | | | | | | | | | | | | | |
| S 24 | 14 9 45 | 4°10'03 | 28°55 13 ¥ 24 | 17°41 17°32 | 14°52 16° 6 | 23°32 | 5°55 | 21°35 | 4° 0 4° 1 | 11°10 11°10 | 20°40 20°41 | 16°16 | 15°38 | 12°20 | 27°34 27°35 | S 24 |
| M25 T 26 | 14 13 41 14 17 38 | 5° 8'18 6° 6'32 | 28° 1 | 17°32 17°18 | 17°19 | 24°18 25° 4 | 5°49 5°43 | 21°30 21°26 | 4° 1 | 11°10 | 20°41 20°42 | 16°17 16°18 | 15°35 15°32 | 12°27 12°34 | 27°35 | M25 T 26 |
| W27 | 14 1 / 38 | 7° 4'44 | 12° 12° 12° | 17 18 17° 0 | 17 19 18°33 | 25°51 | 5°37 | 21°22 | 4° 2 | 11° 9 | 20°42 20°43 | 16°R19 | 15°29 | 12°40 | 27°36 | W27 |
| T 28 | 14 25 31 | 8° 2'55 | 27°19 | 16°37 | 19°46 | 26°37 | 5°32 | 21°18 | 4° 3 | 11° 8 | 20°44 | 16°19 | 15°25 | 12°47 | 27°36 | T 28 |
| F 29 | 14 29 28 | 9° 1'04 | 11847 | 16°11 | 21° 0 | 27°23 | 5°26 | 21°13 | 4° 3 | 11° 8 | 20°45 | 16°17 | 15°22 | 12°54 | 27°36 | F 29 |
| S 30 | 14 33 24 | 9859'11 | 268 0 | 15841 | 22 Υ 13 | 28 H 9 | 5 ₽ 21 | 21 m 9 | 4≈ 4 | 11중 7 | 20耳46 | 16 ₽ 15 | 15 Ω 19 | 13 m) 0 | 27 궁 37 | S 30 |

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| S 1 | 14 37 21 | 10857'17 | 9Д53 | 15°R 9 | 23 Y 27 | 28 米 55 | 5°R16 | 21°R 5 | 4≈ 4 | 11°R 7 | 20∏48 | 16°R11 | 15 ₽ 16 | 13 m) 7 | 27중37 | S 1 |
| M 2 | 14 41 17 | 11°55'21 | 23°24 | 14 8 35 | 24°40 | 29°41 | 5 ₽ 11 | 21 M 0 | 4° 4 | 11 궁 6 | 20°49 | 16 ♀ 8 | 15°13 | 13°14 | 27°37 | M 2 |
| T 3 | 14 45 14 | 12°53'23 | 6931 | 13°59 | 25°54 | o Υ 27 | 5° 6 | 20°56 | 4° 5 | 11° 5 | 20°50 | 16° 4 | 15°10 | 13°20 | 27°R37 | T 3 |
| W 4 | 14 49 10 | 13°51'23 | 19°15 | 13°23 | 27° 7 | 1°13 | 5° 1 | 20°51 | 4° 5 | 11° 5 | 20°51 | 16° 1 | 15° 6 | 13°27 | 27°37 | W 4 |
| T 5 | 14 53 7 | 14°49'21 | 1 Ω 40 | 12°46 | 28°21 | 1°59 | 4°57 | 20°47 | 4° 5 | 11° 4 | 20°52 | 15°59 | 15° 3 | 13°34 | 27°37 | T 5 |
| F 6 | 14 57 4 | 15°47'18 | 13°48 | 12°10 | 29°34 | 2°45 | 4°52 | 20°43 | 4° 5 | 11° 3 | 20°53 | 15°D58 | 15° 0 | 13°40 | 27°37 | F 6 |
| S 7 | 15 1 0 | 16°45'12 | 25°46 | 11°35 | 0 8 48 | 3°31 | 4°48 | 20°38 | 4° 5 | 11° 3 | 20°55 | 15°58 | 14°57 | 13°47 | 27°36 | S 7 |
| S 8 | 15 4 57 | 17°43'05 | 7 m 37 | 11° 1 | 2° 1 | 4°16 | 4°44 | 20°34 | 4°R 5 | 11° 2 | 20°56 | 16° 0 | 14°54 | 13°54 | 27°36 | S 8 |
| M 9 | 15 8 53 | 18°40'56 | 19°26 | 10°30 | 3°15 | 5° 2 | 4°40 | 20°29 | 4° 5 | 11° 1 | 20°57 | 16° 1 | 14°50 | 14° 0 | 27°36 | M 9 |
| T 10 | 15 12 50 | 19°38'45 | 1 ≏ 18 | 10° 2 | 4°28 | 5°48 | 4°36 | 20°25 | 4° 5 | 11° 0 | 20°58 | 16° 3 | 14°47 | 14° 7 | 27°35 | T 10 |
| W11 | 15 16 46 | 20°36'33 | 13°18 | 9°36 | 5°42 | 6°34 | 4°32 | 20°20 | 4° 5 | 10°59 | 21° 0 | 16°R 4 | 14°44 | 14°14 | 27°35 | W11 |
| T 12 | 15 20 43 | 21°34'19 | 25°28 | 9°15 | 6°55 | 7°19 | 4°29 | 20°16 | 4° 5 | 10°58 | 21° 1 | 16° 3 | 14°41 | 14°20 | 27°34 | T 12 |
| F 13 | 15 24 39 | 22°32'03 | 7 M 52 | 8°57 | 8° 9 | 8° 5 | 4°26 | 20°11 | 4° 5 | 10°57 | 21° 2 | 16° 1 | 14°38 | 14°27 | 27°33 | F 13 |
| S 14 | 15 28 36 | 23°29'46 | 20°32 | 8°43 | 9°22 | 8°50 | 4°23 | 20° 7 | 4° 5 | 10°57 | 21° 3 | 15°58 | 14°35 | 14°34 | 27°33 | S 14 |
| S 15 | 15 32 33 | 24°27'28 | 3 . ₹27 | 8°34 | 10°36 | 9°36 | 4°20 | 20° 2 | 4° 4 | 10°56 | 21° 5 | 15°52 | 14°31 | 14°40 | 27°32 | S 15 |
| M16 | 15 36 29 | 25°25'08 | 16°37 | 8°29 | 11°49 | 10°21 | 4°17 | 19°58 | 4° 4 | 10°55 | 21° 6 | 15°46 | 14°28 | 14°47 | 27°31 | M16 |
| T 17 | 15 40 26 | 26°22'47 | 0중 2 | 8°D28 | 13° 3 | 11° 7 | 4°14 | 19°53 | 4° 3 | 10°54 | 21° 7 | 15°40 | 14°25 | 14°54 | 27°30 | T 17 |
| W18 | 15 44 22 | 27°20'25 | 13°40 | 8°32 | 14°16 | 11°52 | 4°12 | 19°49 | 4° 3 | 10°53 | 21° 9 | 15°34 | 14°22 | 15° 0 | 27°29 | W18 |
| T 19 | 15 48 19 | 28°18'02 | 27°28 | 8°40 | 15°30 | 12°38 | 4°10 | 19°45 | 4° 3 | 10°51 | 21°10 | 15°29 | 14°19 | 15° 7 | 27°28 | T 19 |
| F 20 | 15 52 15 | 29°15'38 | 11≈25 | 8°53 | 16°43 | 13°23 | 4° 8 | 19°40 | 4° 2 | 10°50 | 21°11 | 15°25 | 14°16 | 15°14 | 27°26 | F 20 |
| S 21 | 15 56 12 | 0 Ⅱ 13'14 | 25°28 | 9°11 | 17°56 | 14° 8 | 4° 6 | 19°36 | 4° 1 | 10°49 | 21°13 | 15°D24 | 14°12 | 15°20 | 27°25 | S 21 |
| S 22 | 16 0 8 | 1°10'48 | 9) 37 | 9°33 | 19°10 | 14°53 | 4° 4 | 19°31 | 4° 1 | 10°48 | 21°14 | 15°24 | 14° 9 | 15°27 | 27°24 | S 22 |
| M23 | 16 4 5 | 2° 8'21 | 23°50 | 9°59 | 20°23 | 15°39 | 4° 2 | 19°27 | 4° 0 | 10°47 | 21°15 | 15°25 | 14° 6 | 15°34 | 27°22 | M23 |
| T 24 | 16 8 2 | 3° 5'53 | 8 Y 5 | 10°29 | 21°37 | 16°24 | 4° 1 | 19°23 | 3°59 | 10°46 | 21°17 | 15°R26 | 14° 3 | 15°40 | 27°21 | T 24 |
| W25 | 16 11 58 | 4° 3'25 | 22°20 | 11° 4 | 22°51 | 17° 9 | 4° 0 | 19°19 | 3°58 | 10°45 | 21°18 | 15°26 | 14° 0 | 15°47 | 27°19 | W25 |
| T 26 | 16 15 55 | 5° 0'55 | 6 8 31 | 11°42 | 24° 4 | 17°54 | 3°59 | 19°14 | 3°58 | 10°43 | 21°19 | 15°24 | 13°56 | 15°54 | 27°18 | T 26 |
| F 27 | 16 19 51 | 5°58'25 | 20°36 | 12°25 | 25°18 | 18°39 | 3°58 | 19°10 | 3°57 | 10°42 | 21°21 | 15°20 | 13°53 | 16° 0 | 27°16 | F 27 |
| S 28 | 16 23 48 | 6°55'54 | 4 Ⅱ 29 | 13°11 | 26°31 | 19°24 | 3°58 | 19° 6 | 3°56 | 10°41 | 21°22 | 15°14 | 13°50 | 16° 7 | 27°14 | S 28 |
| S 29 | 16 27 44 | 7°53'22 | 18° 8 | 14° 1 | 27°45 | 20° 9 | 3°57 | 19° 2 | 3°55 | 10°40 | 21°23 | 15° 6 | 13°47 | 16°14 | 27°13 | S 29 |
| M30 | 16 31 41 | 8°50'49 | 19529 | 14°54 | 28°58 | 20°53 | 3°57 | 18°58 | 3°54 | 1 <u>0</u> °38 | 21°25 | 14°57 | 13°44 | 16°20 | 2 <u>7</u> °11 | M30 |
| T 31 | 16 35 37 | 9 Ⅱ 48'15 | 14931 | 15 8 51 | 0 耳 12 | 21 Y 38 | 3°D57 | 18 M .54 | 3≈53 | 10 궁 37 | 21耳26 | 14 ≏ 48 | 13 ≏ 41 | 16 M 27 | 27る 9 | T 31 |

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| W 1 | 16 39 34 | 10 Ⅱ 45'40 | 279513 | 16852 | 1∏25 | 22 Y 23 | 3 ≏ 57 | 18°R50 | 3°R52 | 10°R36 | 21耳28 | 14°R40 | 13 ≏ 37 | 16 m 33 | 27°R 7 | W 1 |
| T 2 | 16 43 31 | 11°43'04 | 9 Ω 36 | 17°55 | 2°39 | 23° 8 | 3°57 | 18 M .46 | 3≈51 | 10 ට 34 | 21°29 | 14 ♀ 33 | 13°34 | 16°40 | 27중 5 | T 2 |
| F 3 | 16 47 27 | 12°40'27 | 21°45 | 19° 3 | 3°52 | 23°52 | 3°58 | 18°42 | 3°49 | 10°33 | 21°31 | 14°29 | 13°31 | 16°47 | 27° 3 | F 3 |
| S 4 | 16 51 24 | 13°37'48 | 3 Mp 42 | 20°13 | 5° 6 | 24°37 | 3°58 | 18°38 | 3°48 | 10°32 | 21°32 | 14°26 | 13°28 | 16°53 | 27° 1 | S 4 |
| S 5 | 16 55 20 | 14°35'09 | 15°33 | 21°27 | 6°19 | 25°21 | 3°59 | 18°34 | 3°47 | 10°30 | 21°33 | 14°D26 | 13°25 | 17° 0 | 26°58 | S 5 |
| M 6 | 16 59 17 | 15°32'28 | 27°23 | 22°43 | 7°33 | 26° 5 | 4° 0 | 18°30 | 3°46 | 10°29 | 21°35 | 14°26 | 13°22 | 17° 7 | 26°56 | M 6 |
| T 7 | 17 3 13 | 16°29'47 | 9 ₾ 16 | 24° 3 | 8°46 | 26°50 | 4° 1 | 18°27 | 3°44 | 10°27 | 21°36 | 14°R27 | 13°18 | 17°13 | 26°54 | T 7 |
| W 8 | 17 7 10 | 17°27'04 | 21°19 | 25°26 | 10° 0 | 27°34 | 4° 3 | 18°23 | 3°43 | 10°26 | 21°38 | 14°27 | 13°15 | 17°20 | 26°51 | W 8 |
| T 9 | 17 11 6 | 18°24'21 | 3 M .35 | 26°52 | 11°14 | 28°18 | 4° 4 | 18°20 | 3°41 | 10°24 | 21°39 | 14°25 | 13°12 | 17°27 | 26°49 | T 9 |
| F 10 | 17 15 3 | 19°21'37 | 16° 9 | 28°21 | 12°27 | 29° 2 | 4° 6 | 18°16 | 3°40 | 10°23 | 21°40 | 14°21 | 13° 9 | 17°33 | 26°46 | F 10 |
| S 11 | 17 19 0 | 20°18'52 | 29° 2 | 29°53 | 13°41 | 29°47 | 4° 8 | 18°13 | 3°38 | 10°21 | 21°42 | 14°15 | 13° 6 | 17°40 | 26°44 | S 11 |
| S 12 | 17 22 56 | 21°16'07 | 12 ₹ 16 | 1 Ⅲ 27 | 14°54 | 0 8 31 | 4°10 | 18° 9 | 3°37 | 10°20 | 21°43 | 14° 6 | 13° 2 | 17°47 | 26°41 | S 12 |
| M13 | 17 26 53 | 22°13'21 | 2 <u>5</u> °50 | 3° 5 | 16° 8 | 1°15 | 4°12 | 18° 6 | 3°35 | 10°18 | 21°45 | 13°56 | 12°59 | 17°53 | 26°39 | M13 |
| T 14 | 17 30 49 | 23°10'34 | 9 る 40 | 4°46 | 17°21 | 1°58 | 4°15 | 18° 3 | 3°34 | 10°17 | 21°46 | 13°45 | 12°56 | 18° 0 | 26°36 | T 14 |
| W15 | 17 34 46 | 24° 7'47 | 23°44 | 6°30 | 18°35 | 2°42 | 4°17 | 17°59 | 3°32 | 10°15 | 21°48 | 13°35 | 12°53 | 18° 7 | 26°33 | W15 |
| T 16 | 17 38 42 | 25° 5'00 | 7≈56 | 8°16 | 19°49 | 3°26 | 4°20 | 17°56 | 3°30 | 10°14 | 21°49 | 13°27 | 12°50 | 18°13 | 26°31 | T 16 |
| F 17 | 17 42 39 | 26° 2'13 | 22°11 | 10° 5 | 21° 2 | 4°10 | 4°23 | 17°53 | 3°29 | 10°12 | 21°50 | 13°20 | 12°47 | 18°20 | 26°28 | F 17 |
| S 18 | 17 46 35 | 26°59'25 | 6 ¥ 26 | 11°57 | 22°16 | 4°54 | 4°26 | 17°50 | 3°27 | 10°11 | 21°52 | 13°17 | 12°43 | 18°27 | 26°25 | S 18 |
| S 19 | 17 50 32 | 27°56'37 | 20°38 | 13°52 | 23°29 | 5°37 | 4°29 | 17°47 | 3°25 | 10° 9 | 21°53 | 13°16 | 12°40 | 18°33 | 26°22 | S 19 |
| M20 | 17 54 29 | 28°53'50 | 4 Υ 46 | 15°48 | 24°43 | 6°21 | 4°33 | 17°45 | 3°23 | 10° 8 | 21°55 | 13°D15 | 12°37 | 18°40 | 26°19 | M20 |
| T 21 | 17 58 25 | 29°51'02 | 18°47 | 17°48 | 25°57 | 7° 4 | 4°36 | 17°42 | 3°22 | 10° 6 | 21°56 | 13°R15 | 12°34 | 18°47 | 26°16 | T 21 |
| W22 | 18 2 22 | 09548'14 | 2843 | 19°49 | 27°10 | 7°47 | 4°40 | 17°39 | 3°20 | 10° 4 | 21°58 | 13°14 | 12°31 | 18°53 | 26°13 | W22 |
| T 23 | 18 6 18 | 1°45'27 | 16°31 | 21°53 | 28°24 | 8°31 | 4°44 | 17°37 | 3°18 | 10° 3 | 21°59 | 13°11 | 12°27 | 19° 0 | 26°10 | T 23 |
| F 24 | 18 10 15 | 2°42'39 | 0 Ⅱ 10 | 23°58 | 29°38 | 9°14 | 4°48 | 17°34 | 3°16 | 10° 1 | 22° 0 | 13° 5 | 12°24 | 19° 7 | 26° 7 | F 24 |
| S 25 | 18 14 11 | 3°39'52 | 13°40 | 26° 5 | 0951 | 9°57 | 4°52 | 17°32 | 3°14 | 10° 0 | 22° 2 | 12°56 | 12°21 | 19°13 | 26° 4 | S 25 |
| S 26 | 18 18 8 | 4°37'05 | 26°57 | 28°13 | 2° 5 | 10°40 | 4°56 | 17°29 | 3°12 | 9°58 | 22° 3 | 12°45 | 12°18 | 19°20 | 26° 0 | S 26 |
| M27 | 18 22 5 | 5°34'17 | 1095 1 | 0922 | 3°19 | 11°23 | 5° 1 | 17°27 | 3°10 | 9°56 | 22° 5 | 12°33 | 12°15 | 19°27 | 25°57 | M27 |
| T 28 | 18 26 1 | 6°31'30 | 22°49 | 2°32 | 4°33 | 12° 6 | 5° 6 | 17°25 | 3° 8 | 9°55 | 22° 6 | 12°20 | 12°12 | 19°33 | 25°54 | T 28 |
| W29 | 18 29 58 | 7°28'42 | 5 Ω 22 | 4°42 | 5°46 | 12°49 | 5°11 | 17°23 | 3° 6 | 9°53 | 22° 7 | 12° 8 | 12° 8 | 19°40 | 25°51 | W29 |
| T 30 | 18 33 54 | 8925'54 | 17 Ω 40 | 6953 | 7 95 0 | 13 8 32 | 5 ≏ 16 | 17 M 21 | 3≈ 4 | 9 궁 52 | 22 II 9 | 11 ≏ 58 | 12 ♀ 5 | 19 m /47 | 25 る 48 | T 30 |

Delta T = 35.42 sec

JULY 1661 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Ŷ | ♂ | 4 | ħ |)∤(| ¥ | В | ₽. | v | Ç | ę, | Day |
|--------------|----------------------|----------------------|-------------------------|----------------|-----------------------|-----------------------|---------------|-----------------|--------------|---------------|-----------------|-----------------|----------------|----------------|----------------|--------------|
| F 1 | 18 37 51 | 99523'06 | 29 Ω 45 | 999 3 | 89514 | 14815 | 5 ₽ 21 | 17°R19 | 3°R 2 | 9°R50 | 22 I I0 | 11°R51 | 12 ♀ 2 | 19 m 53 | 25°R44 | F 1 |
| S 2 | 18 41 47 | 10°20'18 | 11 M 40 | 11°13 | 9°28 | 14°57 | 5°26 | 17 M .17 | 2≈59 | 9 る 48 | 22°11 | 11 ≏ 47 | 11°59 | 20° 0 | 25 중 41 | S 2 |
| S 3 | 18 45 44 | 11°17'30 | 23°29 | 13°22 | 10°41 | 15°40 | 5°32 | 17°15 | 2°57 | 9°47 | 22°13 | 11°44 | 11°56 | 20° 7 | 25°38 | S 3 |
| M 4 | 18 49 40 | 12°14'42 | 5 ≙ 17 | 15°30 | 11°55 | 16°22 | 5°37 | 17°14 | 2°55 | 9°45 | 22°14 | 11°44 | 11°53 | 20°13 | 25°34 | M 4 |
| T 5 | 18 53 37 | 13°11'53 | 17°10 | 17°38 | 13° 9 | 17° 5 | 5°43 | 17°12 | 2°53 | 9°43 | 22°16 | 11°44 | 11°49 | 20°20 | 25°31 | T 5 |
| W 6 | 18 57 34 | 14° 9'05 | 29°13 | 19°44 | 14°23 | 17°47 | 5°49 | 17°11 | 2°51 | 9°42 | 22°17 | 11°43 | 11°46 | 20°27 | 25°27 | W 6 |
| T 7 | 19 1 30 | 15° 6'16 | 11 M .31 | 21°48 | 15°37 | 18°29 | 5°55 | 17° 9 | 2°48 | 9°40 | 22°18 | 11°41 | 11°43 | 20°33 | 25°24 | T 7 |
| F 8 | 19 5 27 | 16° 3'28 | 24° 9 | 23°51 | 16°50 | 19°11 | 6° 1 | 17° 8 | 2°46 | 9°39 | 22°20 | 11°37 | 11°40 | 20°40 | 25°20 | F 8 |
| S 9 | 19 9 23 | 17° 0'40 | 7 ₹ 10 | 25°53 | 18° 4 | 19°53 | 6° 7 | 17° 7 | 2°44 | 9°37 | 22°21 | 11°30 | 11°37 | 20°47 | 25°17 | S 9 |
| S 10 | 19 13 20 | 17°57'51 | 2 <u>0</u> °37 | 27°53 | 19°18 | 20°35 | 6°14 | 17° 6 | 2°42 | 9°35 | 22°22 | 11°21 | 11°33 | 20°53 | 25°13 | S 10 |
| M11 | 19 17 16 | 18°55'04 | 4 云 27 | 29°51 | 20°32 | 21°17 | 6°20 | 17° 5 | 2°39 | 9°34 | 22°23 | 11°11 | 11°30 | 21° 0 | 25°10 | M11 |
| T 12 | 19 21 13 | 19°52'16 | 18°39 | 1 Ω 48 | 21°46 | 21°59 | 6°27 | 17° 4 | 2°37 | 9°32 | 22°25 | 10°59 | 11°27 | 21° 6 | 25° 7 | T 12 |
| W13 | 19 25 9 | 20°49'29 | 3≈ 7 | 3°43 | 22°59 | 22°41 | 6°34 | 17° 3 | 2°35 | 9°31 | 22°26 | 10°48 | 11°24 | 21°13 | 25° 3 | W13 |
| T 14 F 15 | 19 29 6 19 33 3 | 21°46'42 22°43'56 | 17°45 2 ∺ 24 | 5°36 7°27 | 24°13 25°27 | 23°22 24° 4 | 6°41 6°48 | 17° 2 17° 2 | 2°32 2°30 | 9°29 9°27 | 22°27 22°29 | 10°39 10°33 | 11°21 11°18 | 21°20 21°26 | 25° 0 24°56 | T 14 F 15 |
| S 16 | 19 36 59 | 22 43 36 23°41'11 | 16°59 | 9°17 | 25°27 26°41 | 24°45 | 6°55 | 17° 1 | 2°28 | 9°26 | 22°30 | 10°33 | 11°14 | 21°33 | 24°52 | S 16 |
| | | | | - | | _ | | | | | | | | | | |
| S 17 | 19 40 56 | 24°38'26 | 1Υ24 | 11° 4 | 27°55 | 25°27 | 7° 3 | 17° 1 | 2°25 | 9°24 | 22°31 | 10°27 | 11°11 | 21°40 | 24°49 | S 17 |
| M18 | 19 44 52 | 25°35'43 | 15°37 | 12°50 | 29° 9 | 26° 8 | 7°10 | 17° 0 | 2°23 2°21 | 9°23 9°21 | 22°32 | 10°D27 | 11° 8 11° 5 | 21°46 | 24°45 24°42 | M18 |
| T 19 W20 | 19 48 49 19 52 45 | 26°33'00 27°30'18 | 29°37 13 8 23 | 14°34 16°17 | 0 Ω 23 1°37 | 26°49 27°30 | 7°18 7°26 | 17° 0 17° 0 | 2°21 2°18 | 9°21 | 22°34 22°35 | 10°R27 10°26 | 11° 5 | 21°53 22° 0 | 24°42 24°38 | T 19 W20 |
| T 21 | 19 52 45 | 28°27'38 | 26°55 | 10°17 17°57 | 2°51 | 28°11 | 7°26 | 17° 0 17°D 0 | 2°18 2°16 | 9°20 | 22°36 | 10°26 | 10°59 | 22° 6 | 24°38 24°35 | T 21 |
| F 22 | 20 0 38 | 29°24'58 | 10 I I16 | 19°36 | 4° 5 | 28°52 | 7°41 | 17° 0 | 2°13 | 9°17 | 22°37 | 10°23 | 10°55 | 22°13 | 24°31 | F 22 |
| S 23 | 20 4 35 | $0\Omega 22'19$ | 23°24 | 21°13 | 5°19 | 29°33 | 7°50 | 17° 0 | 2°11 | 9°15 | 22°38 | 10°10 | 10°52 | 22°20 | 24°28 | S 23 |
| S 24 | 20 8 32 | 1°19'41 | 6920 | 22°48 | 6°33 | 0 П 14 | 7°58 | 17° 0 | 2° 9 | 9°14 | 22°39 | 10° 0 | 10°49 | 22°26 | 24°24 | S 24 |
| M25 | 20 8 32 20 12 28 | 2°17'05 | 19° 3 | 24°22 | 0 33 7°47 | 0 <u>н</u> 14 0°54 | 8° 6 | 17° 1 | 2° 6 | 9°14 | 22°41 | 9°48 | 10°49 | 22°33 | 24°21 | M25 |
| T 26 | 20 16 25 | 3°14'29 | 1 Ω 35 | 25°54 | 9° 1 | 1°35 | 8°15 | 17° 1 | 2° 4 | 9°11 | 22°42 | 9°36 | 10°43 | 22°40 | 24°18 | T 26 |
| W27 | 20 20 21 | 4°11'54 | 13°54 | 27°24 | 10°15 | 2°15 | 8°23 | 17° 2 | 2° 1 | 9° 9 | 22°43 | 9°26 | 10°39 | 22°46 | 24°14 | W27 |
| T 28 | 20 24 18 | 5° 9'19 | 26° 3 | 28°52 | 11°29 | 2°56 | 8°32 | 17° 2 | 1°59 | 9° 8 | 22°44 | 9°16 | 10°36 | 22°53 | 24°11 | T 28 |
| F 29 | 20 28 14 | 6° 6'46 | 8 mg 1 | 0 mp 18 | 12°43 | 3°36 | 8°41 | 17° 3 | 1°57 | 9° 7 | 22°45 | 9°10 | 10°33 | 23° 0 | 24° 7 | F 29 |
| S 30 | 20 32 11 | 7° 4'13 | 19°52 | 1°43 | 13°57 | 4°16 | 8°49 | 17° 4 | 1°54 | 9° 5 | 22°46 | 9° 5 | 10°30 | 23° 6 | 24° 4 | S 30 |
| S 31 | 20 36 7 | 8 Ω 1'41 | 1 ≏ 39 | 3 Mp 5 | 15 Ω 11 | 4 II 56 | 8 ჲ 58 | 17 M 5 | 1≈52 | 9 ප 4 | 22 II 47 | 9 ত 3 | 10 ≏ 27 | 23 m 13 | 24궁 1 | S 31 |

Delta T = 35.37 sec

Greg. Calendar

| AUGUST 1661 GC | 00:00 UT |
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| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| # | Р | v | Ω | Ç | Š. | Day |
|------|----------|------------------|-----------------|----------|----------------|----------------|----------------|----------------|-------|---------------|-----------------|---------------|----------------|----------------|----------------|------|
| M 1 | 20 40 4 | 8 Ω 59'10 | 13 ≏ 26 | 4 Mp 26 | 16 Ω 25 | 5Д36 | 9 ල 8 | 17 M 6 | 1°R49 | 9°R 2 | 22∏48 | 9°D 3 | 10 ≏ 24 | 23 m 20 | 23°R57 | M 1 |
| T 2 | 20 44 1 | 9°56'40 | 25°18 | 5°45 | 17°39 | 6°16 | 9°17 | 17° 7 | 1≈47 | 9 ට 1 | 22°49 | 9 º 4 | 10°20 | 23°26 | 23 궁 54 | T 2 |
| W 3 | 20 47 57 | 10°54'10 | 7 M 20 | 7° 2 | 18°53 | 6°55 | 9°26 | 17° 8 | 1°45 | 9° 0 | 22°50 | 9°R 5 | 10°17 | 23°33 | 23°51 | W 3 |
| T 4 | 20 51 54 | 11°51'42 | 19°37 | 8°17 | 20° 7 | 7°35 | 9°36 | 17°10 | 1°42 | 8°58 | 22°51 | 9° 4 | 10°14 | 23°39 | 23°47 | T 4 |
| F 5 | 20 55 50 | 12°49'14 | 2 , 714 | 9°30 | 21°21 | 8°14 | 9°45 | 17°11 | 1°40 | 8°57 | 22°52 | 9° 2 | 10°11 | 23°46 | 23°44 | F 5 |
| S 6 | 20 59 47 | 13°46'48 | 15°15 | 10°40 | 22°35 | 8°54 | 9°55 | 17°13 | 1°38 | 8°56 | 22°53 | 8°58 | 10° 8 | 23°53 | 23°41 | S 6 |
| S 7 | 21 3 43 | 14°44'22 | 28°44 | 11°48 | 23°49 | 9°33 | 10° 4 | 17°14 | 1°35 | 8°55 | 22°54 | 8°53 | 10° 5 | 23°59 | 23°38 | S 7 |
| M 8 | 21 7 40 | 15°41'57 | 12 る 40 | 12°54 | 25° 3 | 10°12 | 10°14 | 17°16 | 1°33 | 8°53 | 22°55 | 8°45 | 10° 1 | 24° 6 | 23°35 | M 8 |
| T 9 | 21 11 36 | 16°39'33 | 27° 3 | 13°58 | 26°17 | 10°51 | 10°24 | 17°18 | 1°31 | 8°52 | 22°56 | 8°37 | 9°58 | 24°13 | 23°31 | T 9 |
| W10 | 21 15 33 | 17°37'11 | 11≈46 | 14°59 | 27°31 | 11°30 | 10°34 | 17°20 | 1°28 | 8°51 | 22°57 | 8°29 | 9°55 | 24°19 | 23°28 | W10 |
| T 11 | 21 19 30 | 18°34'49 | 26°43 | 15°57 | 28°45 | 12° 9 | 10°44 | 17°22 | 1°26 | 8°50 | 22°58 | 8°23 | 9°52 | 24°26 | 23°25 | T 11 |
| F 12 | 21 23 26 | 19°32'29 | 11) (43 | 16°53 | 29°59 | 12°47 | 10°54 | 17°24 | 1°24 | 8°49 | 22°59 | 8°18 | 9°49 | 24°33 | 23°22 | F 12 |
| S 13 | 21 27 23 | 20°30'10 | 26°40 | 17°45 | 1 Mp 14 | 13°26 | 11° 4 | 17°26 | 1°22 | 8°48 | 23° 0 | 8°16 | 9°45 | 24°39 | 23°19 | S 13 |
| S 14 | 21 31 19 | 21°27'53 | 11 Y 25 | 18°35 | 2°28 | 14° 4 | 11°15 | 17°28 | 1°19 | 8°47 | 23° 1 | 8°D15 | 9°42 | 24°46 | 23°17 | S 14 |
| M15 | 21 35 16 | 22°25'38 | 25°52 | 19°21 | 3°42 | 14°43 | 11°25 | 17°30 | 1°17 | 8°45 | 23° 1 | 8°16 | 9°39 | 24°53 | 23°14 | M15 |
| T 16 | 21 39 12 | 23°23'24 | 108 0 | 20° 4 | 4°56 | 15°21 | 11°36 | 17°33 | 1°15 | 8°44 | 23° 2 | 8°17 | 9°36 | 24°59 | 23°11 | T 16 |
| W17 | 21 43 9 | 24°21'12 | 23°48 | 20°43 | 6°10 | 15°59 | 11°46 | 17°35 | 1°13 | 8°43 | 23° 3 | 8°R18 | 9°33 | 25° 6 | 23° 8 | W17 |
| T 18 | 21 47 5 | 25°19'02 | 7 Ⅱ 16 | 21°18 | 7°24 | 16°37 | 11°57 | 17°38 | 1°11 | 8°42 | 23° 4 | 8°17 | 9°30 | 25°13 | 23° 5 | T 18 |
| F 19 | 21 51 2 | 26°16'54 | 20°25 | 21°49 | 8°38 | 17°15 | 12° 8 | 17°41 | 1° 9 | 8°41 | 23° 4 | 8°15 | 9°26 | 25°19 | 23° 3 | F 19 |
| S 20 | 21 54 58 | 27°14'47 | 39519 | 22°15 | 9°53 | 17°52 | 12°19 | 17°43 | 1° 7 | 8°41 | 23° 5 | 8°11 | 9°23 | 25°26 | 23° 0 | S 20 |
| S 21 | 21 58 55 | 28°12'42 | 15°58 | 22°37 | 11° 7 | 18°30 | 12°29 | 17°46 | 1° 5 | 8°40 | 23° 6 | 8° 5 | 9°20 | 25°33 | 22°57 | S 21 |
| M22 | 22 2 52 | 29°10'39 | 28°25 | 22°54 | 12°21 | 19° 7 | 12°40 | 17°49 | 1° 3 | 8°39 | 23° 7 | 7°58 | 9°17 | 25°39 | 22°55 | M22 |
| T 23 | 22 6 48 | 0 m 8'38 | 10 Ω 41 | 23° 6 | 13°35 | 19°44 | 12°51 | 17°52 | 1° 1 | 8°38 | 23° 7 | 7°51 | 9°14 | 25°46 | 22°52 | T 23 |
| W24 | 22 10 45 | 1° 6'38 | 22°47 | 23°13 | 14°49 | 20°22 | 13° 3 | 17°55 | 0°59 | 8°37 | 23° 8 | 7°45 | 9°11 | 25°52 | 22°50 | W24 |
| T 25 | 22 14 41 | 2° 4'40 | 4 Mp 46 | 23°R14 | 16° 3 | 20°59 | 13°14 | 17°59 | 0°57 | 8°36 | 23° 9 | 7°40 | 9° 7 | 25°59 | 22°47 | T 25 |
| F 26 | 22 18 38 | 3° 2'44 | 16°38 | 23° 8 | 17°17 | 21°35 | 13°25 | 18° 2 | 0°55 | 8°35 | 23° 9 | 7°36 | 9° 4 | 26° 6 | 22°45 | F 26 |
| S 27 | 22 22 34 | 4° 0'49 | 28°25 | 22°57 | 18°32 | 22°12 | 13°36 | 18° 5 | 0°53 | 8°35 | 23°10 | 7°34 | 9° 1 | 26°12 | 22°43 | S 27 |
| S 28 | 22 26 31 | 4°58'55 | 10 ≏ 12 | 22°40 | 19°46 | 22°49 | 13°48 | 18° 9 | 0°51 | 8°34 | 23°10 | 7°D33 | 8°58 | 26°19 | 22°41 | S 28 |
| M29 | 22 30 27 | 5°57'03 | 21°59 | 22°16 | 21° 0 | 23°25 | 13°59 | 18°12 | 0°49 | 8°33 | 23°11 | 7°34 | 8°55 | 26°26 | 22°38 | M29 |
| T 30 | 22 34 24 | 6°55'13 | 3 M .52 | 21°46 | 22°14 | 24° 1 | 14°11 | 18°16 | 0°47 | <u>8°33</u> | 23°11 | 7°36 | 8°51 | 26°32 | 2 <u>2</u> °36 | T 30 |
| W31 | 22 38 21 | 7 m 53′25 | 15 M 54 | 21 Mp 10 | 23 m 28 | 24 Ⅱ 37 | 14 ≏ 22 | 18 M 20 | 0≈46 | 8 궁 32 | 23 I I12 | 7 쇼 38 | 8 ≏ 48 | 26 m 39 | 22 궁 34 | W31 |

Delta T = 35.31 sec

SEPTEMBER 1661 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Ŷ | ð | 4 | ħ |)Å(| ¥ | В | ß | ಬ | Ç | , k | Day |
|------|----------|------------------|-----------------|----------------|----------------|----------------|----------------|----------------|-------|---------------|----------------|---------------|---------------|----------------|----------------|------|
| T 1 | 22 42 17 | 8 m 51'37 | 28ML10 | 20°R28 | 24 Mp 42 | 25 Ⅱ 13 | 14 ₽ 34 | 18 M 24 | 0°R44 | 8°R31 | 23 Ⅱ 12 | 7 ≏ 39 | 8 ≏ 45 | 26 Mp 46 | 22°R32 | T 1 |
| F 2 | 22 46 14 | 9°49'52 | 10 ∡ 144 | 19 M 41 | 25°57 | 25°49 | 14°46 | 18°27 | 0≈42 | 8 云 31 | 23°13 | 7°R39 | 8°42 | 26°52 | 22 궁 30 | F 2 |
| S 3 | 22 50 10 | 10°48'08 | 23°41 | 18°49 | 27°11 | 26°25 | 14°57 | 18°31 | 0°40 | 8°30 | 23°13 | 7°39 | 8°39 | 26°59 | 22°29 | S 3 |
| S 4 | 22 54 7 | 11°46'25 | 7중 4 | 17°53 | 28°25 | 27° 0 | 15° 9 | 18°35 | 0°39 | 8°30 | 23°14 | 7°37 | 8°36 | 27° 6 | 22°27 | S 4 |
| M 5 | 22 58 3 | 12°44'44 | 20°56 | 16°54 | 29°39 | 27°35 | 15°21 | 18°40 | 0°37 | 8°29 | 23°14 | 7°34 | 8°32 | 27°12 | 22°25 | M 5 |
| T 6 | 23 2 0 | 13°43'05 | 5≈15 | 15°54 | ე ჲ 53 | 28°11 | 15°33 | 18°44 | 0°36 | 8°29 | 23°14 | 7°31 | 8°29 | 27°19 | 22°23 | T 6 |
| W 7 | 23 5 56 | 14°41'27 | 19°59 | 14°53 | 2° 7 | 28°45 | 15°45 | 18°48 | 0°34 | 8°28 | 23°15 | 7°28 | 8°26 | 27°26 | 22°22 | W 7 |
| T 8 | 23 9 53 | 15°39'51 | 5 ₩ 0 | 13°52 | 3°21 | 29°20 | 15°57 | 18°52 | 0°33 | 8°28 | 23°15 | 7°25 | 8°23 | 27°32 | 22°20 | T 8 |
| F 9 | 23 13 50 | 16°38'16 | 20°12 | 12°54 | 4°36 | 29°55 | 16° 9 | 18°57 | 0°31 | 8°28 | 23°15 | 7°23 | 8°20 | 27°39 | 22°19 | F 9 |
| S 10 | 23 17 46 | 17°36'44 | 5 ℃ 23 | 12° 0 | 5°50 | 0929 | 16°21 | 19° 1 | 0°30 | 8°27 | 23°16 | 7°D23 | 8°16 | 27°45 | 22°17 | S 10 |
| S 11 | 23 21 43 | 18°35'14 | 20°25 | 11°11 | 7° 4 | 1° 4 | 16°33 | 19° 6 | 0°29 | 8°27 | 23°16 | 7°23 | 8°13 | 27°52 | 22°16 | S 11 |
| M12 | 23 25 39 | 19°33'45 | 5 8 10 | 10°28 | 8°18 | 1°38 | 16°46 | 19°11 | 0°27 | 8°27 | 23°16 | 7°24 | 8°10 | 27°59 | 22°15 | M12 |
| T 13 | 23 29 36 | 20°32'19 | 19°33 | 9°53 | 9°32 | 2°12 | 16°58 | 19°15 | 0°26 | 8°26 | 23°17 | 7°25 | 8° 7 | 28° 5 | 22°14 | T 13 |
| W14 | 23 33 32 | 21°30'55 | 3耳30 | 9°26 | 10°46 | 2°45 | 17°10 | 19°20 | 0°25 | 8°26 | 23°17 | 7°26 | 8° 4 | 28°12 | 22°12 | W14 |
| T 15 | 23 37 29 | 22°29'34 | 17° 3 | 9° 8 | 12° 0 | 3°19 | 17°23 | 19°25 | 0°24 | 8°26 | 23°17 | 7°R27 | 8° 1 | 28°19 | 22°11 | T 15 |
| F 16 | 23 41 25 | 23°28'15 | 0912 | 9°D 0 | 13°14 | 3°52 | 17°35 | 19°30 | 0°22 | 8°26 | 23°17 | 7°27 | 7°57 | 28°25 | 22°10 | F 16 |
| S 17 | 23 45 22 | 24°26'58 | 13° 0 | 9° 1 | 14°29 | 4°26 | 17°47 | 19°35 | 0°21 | 8°26 | 23°17 | 7°26 | 7°54 | 28°32 | 22° 9 | S 17 |
| S 18 | 23 49 19 | 25°25'43 | 25°30 | 9°13 | 15°43 | 4°59 | 18° 0 | 19°40 | 0°20 | 8°26 | 23°17 | 7°25 | 7°51 | 28°39 | 22° 9 | S 18 |
| M19 | 23 53 15 | 26°24'30 | 7 Ω 46 | 9°34 | 16°57 | 5°31 | 18°12 | 19°45 | 0°19 | 8°26 | 23°17 | 7°24 | 7°48 | 28°45 | 22° 8 | M19 |
| T 20 | 23 57 12 | 27°23'20 | 19°50 | 10° 5 | 18°11 | 6° 4 | 18°25 | 19°50 | 0°18 | 8°D26 | 23°18 | 7°22 | 7°45 | 28°52 | 22° 7 | T 20 |
| W21 | 0 1 8 | 28°22'12 | 1 M) 47 | 10°45 | 19°25 | 6°36 | 18°38 | 19°55 | 0°17 | 8°26 | 23°18 | 7°21 | 7°42 | 28°59 | 22° 7 | W21 |
| T 22 | 0 5 5 | 29°21'05 | 13°38 | 11°33 | 20°39 | 7° 8 | 18°50 | 20° 1 | 0°16 | 8°26 | 23°18 | 7°20 | 7°38 | 29° 5 | 22° 6 | T 22 |
| F 23 | 0 9 1 | 0 ჲ 20'01 | 25°26 | 12°29 | 21°53 | 7°40 | 19° 3 | 20° 6 | 0°16 | 8°26 | 23°R18 | 7°19 | 7°35 | 29°12 | 22° 5 | F 23 |
| S 24 | 0 12 58 | 1°18'59 | 7 ≏ 13 | 13°33 | 23° 7 | 8°12 | 19°16 | 20°11 | 0°15 | 8°26 | 23°18 | 7°D19 | 7°32 | 29°19 | 22° 5 | S 24 |
| S 25 | 0 16 54 | 2°17'59 | 19° 1 | 14°43 | 24°21 | 8°43 | 19°28 | 20°17 | 0°14 | 8°26 | 23°18 | 7°19 | 7°29 | 29°25 | 22° 5 | S 25 |
| M26 | 0 20 51 | 3°17'02 | 0 M .53 | 16° 0 | 25°35 | 9°15 | 19°41 | 20°22 | 0°13 | 8°26 | 23°17 | 7°19 | 7°26 | 29°32 | 22° 4 | M26 |
| T 27 | 0 24 47 | 4°16'06 | 12°52 | 17°21 | 26°49 | 9°46 | 19°54 | 20°28 | 0°13 | 8°27 | 23°17 | 7°20 | 7°22 | 29°38 | 22° 4 | T 27 |
| W28 | 0 28 44 | 5°15'11 | 24°59 | 18°47 | 28° 3 | 10°16 | 20° 7 | 20°34 | 0°12 | 8°27 | 23°17 | 7°20 | 7°19 | 29°45 | 22° 4 | W28 |
| T 29 | 0 32 41 | 6°14'19 | 7 √ 19 | 20°17 | 29°18 | 10°47 | 20°19 | 20°39 | 0°12 | <u>8°</u> 27 | 23°17 | 7°20 | 7°16 | 29°52 | 22°D 4 | T 29 |
| F 30 | 0 36 37 | 7 º 13'29 | 19 × 754 | 21 Mp 50 | 0 M .32 | 119917 | 20 ≏ 32 | 20 M 45 | 0≈11 | 8 궁 27 | 23 Ⅱ 17 | 7°R20 | 7 ≏ 13 | 29 m 58 | 22중 4 | F 30 |

Delta T = 35.25 sec

Greg. Calendar

OCTOBER 1661 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | Ϋ́ | o ⁷ | 4 | ħ |)∤(| ¥ | 5 | R | Ω | ţ | δ | Day |
|------|---------|------------------|----------------|-----------------|----------------|----------------|----------------|----------------|-------|---------------|--------|---------------|---------------|---------------|----------------|------|
| S 1 | 0 40 34 | 8 ₾ 12'40 | 2 ප් 49 | 23 Mp 26 | 1 M .46 | 119547 | 20 ≏ 45 | 20 M 51 | 0°R11 | 8 중 28 | 23°R17 | 7°D20 | 7 ₽ 10 | 0요 5 | 22 궁 4 | S 1 |
| S 2 | 0 44 30 | 9°11'54 | 16° 5 | 25° 5 | 3° 0 | 12°17 | 20°58 | 20°57 | 0≈10 | 8°28 | 23耳17 | 7 ≏ 20 | 7° 7 | 0°12 | 22° 4 | S 2 |
| M 3 | 0 48 27 | 10°11'08 | 29°46 | 26°45 | 4°14 | 12°47 | 21°11 | 21° 3 | 0°10 | 8°29 | 23°16 | 7°20 | 7° 3 | 0°18 | 22° 5 | M 3 |
| T 4 | 0 52 23 | 11°10'25 | 13≈52 | 28°27 | 5°28 | 13°16 | 21°24 | 21° 9 | 0°10 | 8°29 | 23°16 | 7°21 | 7° 0 | 0°25 | 22° 5 | T 4 |
| W 5 | 0 56 20 | 12° 9'44 | 28°23 | 0 호 9 | 6°42 | 13°45 | 21°37 | 21°15 | 0° 9 | 8°30 | 23°16 | 7°21 | 6°57 | 0°32 | 22° 5 | W 5 |
| T 6 | 1 0 16 | 13° 9'04 | 13 米 13 | 1°53 | 7°56 | 14°14 | 21°50 | 21°21 | 0° 9 | 8°30 | 23°16 | 7°22 | 6°54 | 0°38 | 22° 6 | T 6 |
| F 7 | 1 4 13 | 14° 8'26 | 28°19 | 3°37 | 9°10 | 14°42 | 22° 3 | 21°27 | 0° 9 | 8°31 | 23°15 | 7°22 | 6°51 | 0°45 | 22° 6 | F 7 |
| S 8 | 1 8 10 | 15° 7'50 | 13 Y 30 | 5°21 | 10°24 | 15°10 | 22°16 | 21°33 | 0° 9 | 8°31 | 23°15 | 7°R22 | 6°47 | 0°52 | 22° 7 | S 8 |
| S 9 | 1 12 6 | 16° 7'16 | 28°38 | 7° 5 | 11°37 | 15°38 | 22°29 | 21°39 | 0°D 9 | 8°32 | 23°15 | 7°22 | 6°44 | 0°58 | 22° 8 | S 9 |
| M10 | 1 16 3 | 17° 6'45 | 13 8 33 | 8°50 | 12°51 | 16° 6 | 22°42 | 21°45 | 0° 9 | 8°33 | 23°14 | 7°21 | 6°41 | 1° 5 | 22° 9 | M10 |
| T 11 | 1 19 59 | 18° 6'15 | 28° 8 | 10°34 | 14° 5 | 16°33 | 22°55 | 21°52 | 0° 9 | 8°33 | 23°14 | 7°20 | 6°38 | 1°11 | 22° 9 | T 11 |
| W12 | 1 23 56 | 19° 5'48 | 12 Ⅱ 17 | 12°18 | 15°19 | 17° 0 | 23° 8 | 21°58 | 0° 9 | 8°34 | 23°13 | 7°18 | 6°35 | 1°18 | 22°10 | W12 |
| T 13 | 1 27 52 | 20° 5'23 | 26° 0 | 14° 2 | 16°33 | 17°27 | 23°21 | 22° 4 | 0° 9 | 8°35 | 23°13 | 7°17 | 6°32 | 1°25 | 22°11 | T 13 |
| F 14 | 1 31 49 | 21° 5'01 | 9915 | 15°45 | 17°47 | 17°53 | 23°34 | 22°11 | 0° 9 | 8°35 | 23°13 | 7°16 | 6°28 | 1°31 | 22°12 | F 14 |
| S 15 | 1 35 45 | 22° 4'40 | 22° 5 | 17°28 | 19° 1 | 18°19 | 23°47 | 22°17 | 0°10 | 8°36 | 23°12 | 7°D16 | 6°25 | 1°38 | 22°14 | S 15 |
| S 16 | 1 39 42 | 23° 4'22 | 4 Ω 33 | 19°10 | 20°15 | 18°45 | 24° 0 | 22°24 | 0°10 | 8°37 | 23°12 | 7°16 | 6°22 | 1°45 | 22°15 | S 16 |
| M17 | 1 43 39 | 24° 4'07 | 16°45 | 20°52 | 21°29 | 19°10 | 24°14 | 22°30 | 0°10 | 8°38 | 23°11 | 7°17 | 6°19 | 1°51 | 22°16 | M17 |
| T 18 | 1 47 35 | 25° 3'53 | 28°44 | 22°33 | 22°43 | 19°35 | 24°27 | 22°37 | 0°11 | 8°39 | 23°11 | 7°18 | 6°16 | 1°58 | 22°17 | T 18 |
| W19 | 1 51 32 | 26° 3'42 | 10 M 36 | 24°14 | 23°56 | 20° 0 | 24°40 | 22°43 | 0°11 | 8°40 | 23°10 | 7°20 | 6°13 | 2° 5 | 22°19 | W19 |
| T 20 | 1 55 28 | 27° 3'33 | 22°23 | 25°54 | 25°10 | 20°24 | 24°53 | 22°50 | 0°12 | 8°41 | 23° 9 | 7°21 | 6° 9 | 2°11 | 22°20 | T 20 |
| F 21 | 1 59 25 | 28° 3'26 | 4 Ω 9 | 27°34 | 26°24 | 20°48 | 25° 6 | 22°57 | 0°12 | 8°42 | 23° 9 | 7°R22 | 6° 6 | 2°18 | 22°22 | F 21 |
| S 22 | 2 3 21 | 29° 3'21 | 15°59 | 29°13 | 27°38 | 21°11 | 25°19 | 23° 3 | 0°13 | 8°43 | 23° 8 | 7°22 | 6° 3 | 2°25 | 22°24 | S 22 |
| S 23 | 2 7 18 | OM 3'18 | 27°53 | 0 M .52 | 28°52 | 21°34 | 25°32 | 23°10 | 0°14 | 8°44 | 23° 8 | 7°20 | 6° 0 | 2°31 | 22°25 | S 23 |
| M24 | 2 11 14 | 1° 3'17 | 9 M 54 | 2°30 | 0 ≯ 6 | 21°57 | 25°45 | 23°17 | 0°14 | 8°45 | 23° 7 | 7°18 | 5°57 | 2°38 | 22°27 | M24 |
| T 25 | 2 15 11 | 2° 3'18 | 22° 4 | 4° 8 | 1°19 | 22°19 | 25°58 | 23°24 | 0°15 | 8°46 | 23° 6 | 7°14 | 5°53 | 2°44 | 22°29 | T 25 |
| W26 | 2 19 7 | 3° 3'20 | 4 ₹ 25 | 5°45 | 2°33 | 22°41 | 26°11 | 23°30 | 0°16 | 8°47 | 23° 6 | 7°10 | 5°50 | 2°51 | 22°31 | W26 |
| T 27 | 2 23 4 | 4° 3'25 | 16°56 | 7°22 | 3°47 | 23° 3 | 26°24 | 23°37 | 0°17 | 8°49 | 23° 5 | 7° 5 | 5°47 | 2°58 | 22°33 | T 27 |
| F 28 | 2 27 1 | 5° 3'31 | 29°41 | 8°58 | 5° 1 | 23°24 | 26°37 | 23°44 | 0°18 | 8°50 | 23° 4 | 7° 1 | 5°44 | 3° 4 | 22°35 | F 28 |
| S 29 | 2 30 57 | 6° 3'39 | 12 る 41 | 10°34 | 6°14 | 23°45 | 26°50 | 23°51 | 0°19 | 8°51 | 23° 3 | 6°58 | 5°41 | 3°11 | 22°37 | S 29 |
| S 30 | 2 34 54 | 7° 3'49 | 25°57 | 12° 9 | 7°28 | 24° 5 | 27° 3 | 23°58 | 0°20 | 8°52 | 23° 3 | 6°56 | 5°38 | 3°18 | 22°39 | S 30 |
| M31 | 2 38 50 | 8M 4'00 | 9≈31 | 13 M .44 | 8 才 42 | 249524 | 27 ⊈ 16 | 24M 5 | 0≈21 | 8 궁 54 | 23耳 2 | 6°D55 | 5 ≏ 34 | 3 ≏ 24 | 22 궁 42 | M31 |

Delta T = 35.19 sec

NOVEMBER 1661 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)ф(| 卉 | В | u | v | ţ | Ŷ, | Day |
|------|---------|-------------------|----------------|----------------|----------------|--------|----------------|----------------|------|---------------|----------------|---------------|---------------|---------------|----------------|------|
| T 1 | 2 42 47 | 9M 4'12 | 23≈23 | 15 M 19 | 9 ₹ 56 | 249544 | 27 ≙ 29 | 24M12 | 0≈22 | 8 궁 55 | 23°R 1 | 6 ₽ 56 | 5 ₽ 31 | 3 ₾ 31 | 22 3 44 | T 1 |
| W 2 | 2 46 43 | 10° 4'26 | 7) €36 | 16°53 | 11° 9 | 25° 3 | 27°42 | 24°19 | 0°23 | 8°56 | 23Ⅲ 0 | 6°57 | 5°28 | 3°38 | 22°46 | W 2 |
| T 3 | 2 50 40 | 11° 4'41 | 22° 6 | 18°27 | 12°23 | 25°21 | 27°55 | 24°26 | 0°24 | 8°58 | 22°59 | 6°59 | 5°25 | 3°44 | 22°49 | T 3 |
| F 4 | 2 54 36 | 12° 4'58 | 6 Ƴ 50 | 20° 0 | 13°37 | 25°39 | 28° 8 | 24°33 | 0°26 | 8°59 | 22°59 | 7°R 0 | 5°22 | 3°51 | 22°51 | F 4 |
| S 5 | 2 58 33 | 13° 5'16 | 21°44 | 21°33 | 14°50 | 25°56 | 28°21 | 24°40 | 0°27 | 9° 1 | 22°58 | 6°59 | 5°19 | 3°58 | 22°54 | S 5 |
| S 6 | 3 2 30 | 14° 5'36 | 6 8 40 | 23° 6 | 16° 4 | 26°13 | 28°34 | 24°47 | 0°28 | 9° 2 | 22°57 | 6°56 | 5°15 | 4° 4 | 22°57 | S 6 |
| M 7 | 3 6 26 | 15° 5'58 | 21°30 | 24°39 | 17°17 | 26°29 | 28°47 | 24°54 | 0°30 | 9° 4 | 22°56 | 6°52 | 5°12 | 4°11 | 22°59 | M 7 |
| T 8 | 3 10 23 | 16° 6'22 | 6 I I 6 | 26°11 | 18°31 | 26°45 | 29° 0 | 25° 1 | 0°31 | 9° 5 | 22°55 | 6°46 | 5° 9 | 4°18 | 23° 2 | T 8 |
| W 9 | 3 14 19 | 17° 6'47 | 20°20 | 27°43 | 19°44 | 27° 0 | 29°12 | 25° 8 | 0°33 | 9° 7 | 22°54 | 6°39 | 5° 6 | 4°24 | 23° 5 | W 9 |
| T 10 | 3 18 16 | 18° 7'14 | 495 9 | 29°14 | 20°58 | 27°15 | 29°25 | 25°15 | 0°34 | 9° 8 | 22°53 | 6°33 | 5° 3 | 4°31 | 23° 8 | T 10 |
| F 11 | 3 22 12 | 19° 7'43 | 17°30 | 0 ≯ 46 | 22°11 | 27°29 | 29°38 | 25°22 | 0°36 | 9°10 | 22°52 | 6°27 | 4°59 | 4°37 | 23°11 | F 11 |
| S 12 | 3 26 9 | 20° 8'14 | 0 Ω 26 | 2°17 | 23°25 | 27°42 | 29°51 | 25°29 | 0°37 | 9°11 | 22°51 | 6°23 | 4°56 | 4°44 | 23°14 | S 12 |
| S 13 | 3 30 5 | 21° 8'46 | 12°58 | 3°47 | 24°38 | 27°55 | OM 3 | 25°36 | 0°39 | 9°13 | 22°50 | 6°21 | 4°53 | 4°51 | 23°17 | S 13 |
| M14 | 3 34 2 | 22° 9'20 | 25°10 | 5°18 | 25°52 | 28° 7 | 0°16 | 25°43 | 0°41 | 9°15 | 22°49 | 6°D21 | 4°50 | 4°57 | 23°20 | M14 |
| T 15 | 3 37 59 | 23° 9'56 | 7 m) 9 | 6°48 | 27° 5 | 28°19 | 0°29 | 25°50 | 0°43 | 9°16 | 22°48 | 6°22 | 4°47 | 5° 4 | 23°24 | T 15 |
| W16 | 3 41 55 | 24°10'34 | 18°59 | 8°18 | 28°18 | 28°30 | 0°41 | 25°57 | 0°44 | 9°18 | 22°47 | 6°23 | 4°44 | 5°11 | 23°27 | W16 |
| T 17 | 3 45 52 | 25°11'14 | 0 ჲ 46 | 9°47 | 2 <u>9</u> °32 | 28°41 | 0°54 | 26° 5 | 0°46 | 9°20 | 22°46 | 6°R24 | 4°40 | 5°17 | 23°30 | T 17 |
| F 18 | 3 49 48 | 26°11'55 | 12°33 | 11°16 | 0 ප 45 | 28°50 | 1° 6 | 26°12 | 0°48 | 9°22 | 22°45 | 6°24 | 4°37 | 5°24 | 23°34 | F 18 |
| S 19 | 3 53 45 | 27°12'37 | 24°26 | 12°45 | 1°58 | 28°59 | 1°19 | 26°19 | 0°50 | 9°23 | 22°44 | 6°22 | 4°34 | 5°31 | 23°37 | S 19 |
| S 20 | 3 57 41 | 28°13'22 | 6 M 28 | 14°13 | 3°12 | 29° 8 | 1°31 | 26°26 | 0°52 | 9°25 | 22°43 | 6°18 | 4°31 | 5°37 | 23°40 | S 20 |
| M21 | 4 1 38 | 29°14'07 | 18°41 | 15°41 | 4°25 | 29°15 | 1°43 | 26°33 | 0°54 | 9°27 | 22°42 | 6°11 | 4°28 | 5°44 | 23°44 | M21 |
| T 22 | 4 5 34 | 0 水 14'54 | 1 才 6 | 17° 8 | 5°38 | 29°22 | 1°56 | 26°40 | 0°56 | 9°29 | 22°41 | 6° 2 | 4°24 | 5°51 | 23°48 | T 22 |
| W23 | 4 9 31 | 1°15'43 | 13°45 | 18°35 | 6°51 | 29°29 | 2° 8 | 26°47 | 0°58 | 9°31 | 22°40 | 5°52 | 4°21 | 5°57 | 23°51 | W23 |
| T 24 | 4 13 28 | 2°16'32 | 26°37 | 20° 1 | 8° 4 | 29°34 | 2°20 | 26°54 | 1° 1 | 9°33 | 22°39 | 5°41 | 4°18 | 6° 4 | 23°55 | T 24 |
| F 25 | 4 17 24 | 3°17'23 | 9 ප 41 | 21°26 | 9°18 | 29°39 | 2°32 | 27° 1 | 1° 3 | 9°35 | 22°38 | 5°31 | 4°15 | 6°10 | 23°59 | F 25 |
| S 26 | 4 21 21 | 4°18'15 | 22°57 | 22°50 | 10°31 | 29°43 | 2°44 | 27° 8 | 1° 5 | 9°36 | 22°37 | 5°23 | 4°12 | 6°17 | 24° 3 | S 26 |
| S 27 | 4 25 17 | 5°19'08 | 6≈24 | 24°13 | 11°44 | 29°46 | 2°56 | 27°16 | 1° 7 | 9°38 | 22°36 | 5°17 | 4° 9 | 6°24 | 24° 6 | S 27 |
| M28 | 4 29 14 | 6°20'01 | 20° 2 | 25°34 | 12°57 | 29°49 | 3° 8 | 27°23 | 1°10 | 9°40 | 22°34 | 5°13 | 4° 5 | 6°30 | 24°10 | M28 |
| T 29 | 4 33 10 | 7°20'55 | 3 ∺ 51 | 26°54 | 1 <u>4</u> °10 | 29°50 | 3°20 | 27°30 | 1°12 | <u>9°42</u> | 22°33 | 5°D12 | 4° 2 | 6°37 | 2 <u>4</u> °14 | T 29 |
| W30 | 4 37 7 | 8 ∡ 121′50 | 17 米 51 | 28 × 13 | 15 る 23 | 29951 | 3 M .32 | 27 M 37 | 1≈15 | 9 궁 44 | 22 Ⅲ 32 | 5 ≙ 12 | 3 ₾ 59 | 6 ₽ 44 | 24 ට 18 | W30 |

Delta T = 35.14 sec Greg. Calendar

DECEMBER 1661 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | φ | ♂ | 4 | ħ |)∤(| ¥ | Р | Ç | ය | Ç | o k | Day |
|------|---------|-------------------|----------------|-----------------|----------------|--------|----------------|---------------------------|------|----------------|-----------------|---------------|---------------|----------------|----------------|------|
| T 1 | 4 41 3 | 9 ₹ 122'46 | 2 Υ 2 | 29 × 29 | 16 ට 35 | 29°R51 | 3 M .44 | 27 M .44 | 1≈17 | 9 ට 46 | 22°R31 | 5°R12 | 3₾56 | 6 ₽ 50 | 24중22 | T 1 |
| F 2 | 4 45 0 | 10°23'42 | 16°23 | 0 ح 43 | 17°48 | 29951 | 3°56 | 27°51 | 1°19 | 9°48 | 22 II 30 | 5 ≗ 12 | 3°53 | 6°57 | 24°26 | F 2 |
| S 3 | 4 48 57 | 11°24'39 | 0 8 51 | 1°55 | 19° 1 | 29°49 | 4° 8 | 27°58 | 1°22 | 9°50 | 22°29 | 5°10 | 3°50 | 7° 4 | 24°30 | S 3 |
| S 4 | 4 52 53 | 12°25'37 | 15°22 | 3° 3 | 20°14 | 29°47 | 4°19 | 28° 5 | 1°25 | 9°53 | 22°27 | 5° 4 | 3°46 | 7°10 | 24°35 | S 4 |
| M 5 | 4 56 50 | 13°26'36 | 29°50 | 4° 8 | 21°27 | 29°44 | 4°31 | 28°12 | 1°27 | 9°55 | 22°26 | 4°56 | 3°43 | 7°17 | 24°39 | M 5 |
| T 6 | 5 0 46 | 14°27'35 | 14∏10 | 5° 9 | 22°39 | 29°40 | 4°42 | 28°19 | 1°30 | 9°57 | 22°25 | 4°46 | 3°40 | 7°24 | 24°43 | T 6 |
| W 7 | 5 4 43 | 15°28'36 | 28°14 | 6° 5 | 23°52 | 29°35 | 4°54 | 28°26 | 1°32 | 9°59 | 22°24 | 4°34 | 3°37 | 7°30 | 24°47 | W 7 |
| T 8 | 5 8 39 | 16°29'37 | 119558 | 6°55 | 25° 4 | 29°30 | 5° 5 | 28°32 | 1°35 | 10° 1 | 22°23 | 4°22 | 3°34 | 7°37 | 24°52 | T 8 |
| F 9 | 5 12 36 | 17°30'39 | 25°19 | 7°40 | 26°17 | 29°23 | 5°16 | 28°39 | 1°38 | 10° 3 | 22°22 | 4°12 | 3°30 | 7°44 | 24°56 | F 9 |
| S 10 | 5 16 32 | 18°31'42 | 8 Ω 16 | 8°17 | 27°29 | 29°16 | 5°28 | 28°46 | 1°41 | 10° 5 | 22°20 | 4° 3 | 3°27 | 7°50 | 25° 0 | S 10 |
| S 11 | 5 20 29 | 19°32'46 | 20°50 | 8°47 | 28°41 | 29° 8 | 5°39 | 28°53 | 1°43 | 10° 7 | 22°19 | 3°57 | 3°24 | 7°57 | 25° 5 | S 11 |
| M12 | 5 24 26 | 20°33'50 | 3 Mp 5 | 9° 8 | 29°54 | 28°59 | 5°50 | 29° 0 | 1°46 | 10° 9 | 22°18 | 3°53 | 3°21 | 8° 3 | 25° 9 | M12 |
| T 13 | 5 28 22 | 21°34'56 | 15° 6 | 9°19 | 1≈ 6 | 28°49 | 6° 1 | 29° 7 | 1°49 | 10°12 | 22°17 | 3°52 | 3°18 | 8°10 | 25°14 | T 13 |
| W14 | 5 32 19 | 22°36'02 | 26°57 | 9°R20 | 2°18 | 28°38 | 6°12 | 29°13 | 1°52 | 10°14 | 22°16 | 3°52 | 3°15 | 8°17 | 25°18 | W14 |
| T 15 | 5 36 15 | 23°37'09 | 8 ≏ 44 | 9°10 | 3°30 | 28°27 | 6°23 | 29°20 | 1°55 | 10°16 | 22°15 | 3°52 | 3°11 | 8°23 | 25°23 | T 15 |
| F 16 | 5 40 12 | 24°38'17 | 20°33 | 8°48 | 4°42 | 28°15 | 6°33 | 29°27 | 1°58 | 10°18 | 22°13 | 3°51 | 3° 8 | 8°30 | 25°28 | F 16 |
| S 17 | 5 44 8 | 25°39'26 | 2 M 28 | 8°15 | 5°54 | 28° 1 | 6°44 | 29°33 | 2° 1 | 10°20 | 22°12 | 3°48 | 3° 5 | 8°37 | 25°32 | S 17 |
| S 18 | 5 48 5 | 26°40'35 | 14°36 | 7°30 | 7° 6 | 27°48 | 6°55 | 29°40 | 2° 4 | 10°23 | 22°11 | 3°42 | 3° 2 | 8°43 | 25°37 | S 18 |
| M19 | 5 52 1 | 27°41'45 | 26°58 | 6°34 | 8°18 | 27°33 | 7° 5 | 29°47 | 2° 7 | 10°25 | 22°10 | 3°33 | 2°59 | 8°50 | 25°42 | M19 |
| T 20 | 5 55 58 | 28°42'55 | 9 .₹ 37 | 5°29 | 9°30 | 27°17 | 7°16 | 29°53 | 2°10 | 10°27 | 22° 9 | 3°22 | 2°56 | 8°57 | 25°46 | T 20 |
| W21 | 5 59 55 | 29°44'06 | 22°34 | 4°15 | 10°41 | 27° 1 | 7°26 | 29°59 | 2°13 | 10°29 | 22° 7 | 3° 9 | 2°52 | 9° 3 | 25°51 | W21 |
| T 22 | 6 3 51 | 0 ප් 45'17 | 5 ⋜ 48 | 2°57 | 11°53 | 26°44 | 7°36 | 0 x ⁷ 6 | 2°16 | 10°32 | 22° 6 | 2°55 | 2°49 | 9°10 | 25°56 | T 22 |
| F 23 | 6 7 48 | 1°46'29 | 19°17 | 1°35 | 13° 4 | 26°27 | 7°46 | 0°13 | 2°19 | 10°34 | 22° 5 | 2°42 | 2°46 | 9°17 | 26° 1 | F 23 |
| S 24 | 6 11 44 | 2°47'40 | 2 ≈ 58 | 0°13 | 14°16 | 26° 8 | 7°56 | 0°19 | 2°22 | 10°36 | 22° 4 | 2°30 | 2°43 | 9°23 | 26° 5 | S 24 |
| S 25 | 6 15 41 | 3°48'52 | 16°48 | 28 × 354 | 15°27 | 25°49 | 8° 6 | 0°25 | 2°26 | 10°38 | 22° 3 | 2°22 | 2°40 | 9°30 | 26°10 | S 25 |
| M26 | 6 19 37 | 4°50'03 | 0) 44 | 27°40 | 16°38 | 25°30 | 8°16 | 0°32 | 2°29 | 10°41 | 22° 2 | 2°17 | 2°36 | 9°36 | 26°15 | M26 |
| T 27 | 6 23 34 | 5°51'14 | 14°43 | 26°32 | 17°49 | 25°10 | 8°26 | 0°38 | 2°32 | 10°43 | 22° 0 | 2°14 | 2°33 | 9°43 | 26°20 | T 27 |
| W28 | 6 27 31 | 6°52'25 | 28°46 | 25°33 | 19° 0 | 24°49 | 8°35 | 0°44 | 2°35 | 10°45 | 21°59 | 2°13 | 2°30 | 9°50 | 26°25 | W28 |
| T 29 | 6 31 27 | 7°53'36 | 12 Y 50 | 24°43 | 20°11 | 24°28 | 8°45 | 0°50 | 2°38 | 10°47 | 21°58 | 2°13 | 2°27 | 9°56 | 26°30 | T 29 |
| F 30 | 6 35 24 | 8°54'46 | 26°55 | 24° 4 | 21°22 | 24° 6 | 8°54 | 0°56 | 2°42 | 10°50 | 21°57 | 2°13 | 2°24 | 10° 3 | 26°35 | F 30 |
| S 31 | 6 39 20 | 9 ප 55'56 | 118 1 | 23 × 34 | 22≈33 | 239544 | 9 M 3 | 1 √ 2 | 2≈45 | 10 る 52 | 21耳56 | 2 ≏ 10 | 2 ≏ 21 | 10 ≏ 10 | 26 궁 40 | S 31 |

Delta T = 35.08 sec

JANUARY 1662 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)f(| ¥ | Р | 'n | S | Ç | ę, | Day |
|------|---------|-------------------|-----------------|----------------|-----------------|--------|----------------|----------------|------|----------------|-----------------|----------------|---------------|----------------|----------------|------|
| S 1 | 6 43 17 | 10 る 57'05 | 25 8 5 | 23°R15 | 23≈43 | 23°R21 | 9 M .13 | 1 √ 1 8 | 2≈48 | 10 궁 54 | 21°R55 | 2°R 4 | 2 ≏ 17 | 10 ≏ 16 | 26 궁 45 | S 1 |
| M 2 | 6 47 13 | 11°58'14 | 9耳 6 | 23 ∡ 6 | 24°54 | 22959 | 9°22 | 1°14 | 2°52 | 10°57 | 21耳54 | 1 ≏ 55 | 2°14 | 10°23 | 26°50 | M 2 |
| T 3 | 6 51 10 | 12°59'23 | 22°59 | 23°D 6 | 26° 4 | 22°35 | 9°31 | 1°20 | 2°55 | 10°59 | 21°53 | 1°44 | 2°11 | 10°30 | 26°55 | T 3 |
| W 4 | 6 55 6 | 14° 0'32 | 6 ୭ 40 | 23°14 | 27°14 | 22°12 | 9°39 | 1°26 | 2°58 | 11° 1 | 21°51 | 1°32 | 2° 8 | 10°36 | 27° 0 | W 4 |
| T 5 | 6 59 3 | 15° 1'40 | 20° 7 | 23°30 | 28°24 | 21°48 | 9°48 | 1°32 | 3° 2 | 11° 3 | 21°50 | 1°19 | 2° 5 | 10°43 | 27° 5 | T 5 |
| F 6 | 7 3 0 | 16° 2'48 | 3 Ω 15 | 23°53 | 29°34 | 21°25 | 9°57 | 1°38 | 3° 5 | 11° 6 | 21°49 | 1° 7 | 2° 2 | 10°50 | 27°10 | F 6 |
| S 7 | 7 6 56 | 17° 3'55 | 16° 5 | 24°23 | 0) (44 | 21° 1 | 10° 5 | 1°44 | 3° 9 | 11° 8 | 21°48 | 0°57 | 1°58 | 10°56 | 27°15 | S 7 |
| S 8 | 7 10 53 | 18° 5'03 | 28°35 | 24°59 | 1°53 | 20°37 | 10°14 | 1°49 | 3°12 | 11°10 | 21°47 | 0°50 | 1°55 | 11° 3 | 27°20 | S 8 |
| M 9 | 7 14 49 | 19° 6'10 | 10 M 49 | 25°40 | 3° 3 | 20°13 | 10°22 | 1°55 | 3°15 | 11°12 | 21°46 | 0°45 | 1°52 | 11°10 | 27°25 | M 9 |
| T 10 | 7 18 46 | 20° 7'16 | 22°50 | 26°26 | 4°12 | 19°49 | 10°30 | 2° 0 | 3°19 | 11°15 | 21°45 | 0°44 | 1°49 | 11°16 | 27°30 | T 10 |
| W11 | 7 22 42 | 21° 8'23 | 4 ≏ 41 | 27°16 | 5°21 | 19°25 | 10°38 | 2° 6 | 3°22 | 11°17 | 21°44 | 0°D43 | 1°46 | 11°23 | 27°35 | W11 |
| T 12 | 7 26 39 | 22° 9'29 | 16°29 | 28°10 | 6°30 | 19° 1 | 10°46 | 2°11 | 3°26 | 11°19 | 21°43 | 0°R44 | 1°42 | 11°29 | 27°40 | T 12 |
| F 13 | 7 30 35 | 23°10'35 | 28°18 | 2 <u>9°</u> 7 | 7°39 | 18°37 | 10°53 | 2°17 | 3°29 | 11°21 | 21°42 | 0°44 | 1°39 | 11°36 | 27°46 | F 13 |
| S 14 | 7 34 32 | 24°11'41 | 10 M .15 | 0중 7 | 8°48 | 18°14 | 11° 1 | 2°22 | 3°33 | 11°24 | 21°41 | 0°42 | 1°36 | 11°43 | 27°51 | S 14 |
| S 15 | 7 38 29 | 25°12'46 | 22°23 | 1°11 | 9°56 | 17°50 | 11°8 | 2°27 | 3°36 | 11°26 | 21°40 | 0°39 | 1°33 | 11°49 | 27°56 | S 15 |
| M16 | 7 42 25 | 26°13'51 | 4 ₹ 49 | 2°17 | 11° 4 | 17°27 | 11°16 | 2°32 | 3°40 | 11°28 | 21°39 | 0°32 | 1°30 | 11°56 | 28° 1 | M16 |
| T 17 | 7 46 22 | 27°14'56 | 17°35 | 3°25 | 12°13 | 17° 5 | 11°23 | 2°37 | 3°43 | 11°30 | 21°38 | 0°24 | 1°27 | 12° 3 | 28° 6 | T 17 |
| W18 | 7 50 18 | 28°16'00 | 0 ප 43 | 4°35 | 13°20 | 16°43 | 11°30 | 2°42 | 3°47 | 11°33 | 21°37 | 0°14 | 1°23 | 12° 9 | 28°11 | W18 |
| T 19 | 7 54 15 | 29°17'03 | 14°14 | 5°47 | 14°28 | 16°21 | 11°37 | 2°47 | 3°50 | 11°35 | 21°36 | 0° 3 | 1°20 | 12°16 | 28°16 | T 19 |
| F 20 | 7 58 11 | 0≈18'05 | 28° 4 | 7° 1 | 15°36 | 15°59 | 11°43 | 2°52 | 3°54 | 11°37 | 21°35 | 29 m 52 | 1°17 | 12°23 | 28°21 | F 20 |
| S 21 | 8 2 8 | 1°19'07 | 12≈11 | 8°17 | 16°43 | 15°39 | 11°50 | 2°57 | 3°57 | 11°39 | 21°35 | 29°43 | 1°14 | 12°29 | 28°26 | S 21 |
| S 22 | 8 6 4 | 2°20'08 | 26°28 | 9°34 | 17°50 | 15°18 | 11°56 | 3° 2 | 4° 1 | 11°41 | 21°34 | 29°36 | 1°11 | 12°36 | 28°32 | S 22 |
| M23 | 8 10 1 | 3°21'07 | 10 米 51 | 10°52 | 18°57 | 14°58 | 12° 3 | 3° 6 | 4° 4 | 11°43 | 21°33 | 29°32 | 1°8 | 12°43 | 28°37 | M23 |
| T 24 | 8 13 58 | 4°22'06 | 25°14 | 12°12 | 20° 4 | 14°39 | 12° 9 | 3°11 | 4° 8 | 11°46 | 21°32 | 29°D31 | 1° 4 | 12°49 | 28°42 | T 24 |
| W25 | 8 17 54 | 5°23'03 | 9 Ƴ 34 | 13°33 | 21°10 | 14°21 | 12°15 | 3°15 | 4°11 | 11°48 | 21°31 | 29°31 | 1° 1 | 12°56 | 28°47 | W25 |
| T 26 | 8 21 51 | 6°23'59 | 23°47 | 14°55 | 22°16 | 14° 3 | 12°21 | 3°20 | 4°15 | 11°50 | 21°30 | 29°32 | 0°58 | 13° 3 | 28°52 | T 26 |
| F 27 | 8 25 47 | 7°24'53 | 7 8 52 | 16°18 | 23°22 | 13°46 | 12°26 | 3°24 | 4°18 | 11°52 | 21°30 | 29°R33 | 0°55 | 13° 9 | 28°57 | F 27 |
| S 28 | 8 29 44 | 8°25'46 | 21°48 | 17°42 | 24°28 | 13°29 | 12°32 | 3°28 | 4°22 | 11°54 | 21°29 | 29°32 | 0°52 | 13°16 | 29° 2 | S 28 |
| S 29 | 8 33 40 | 9°26'38 | 5Ⅲ35 | 19° 7 | 25°33 | 13°14 | 12°37 | 3°33 | 4°25 | 11°56 | 21°28 | 29°29 | 0°48 | 13°22 | 29° 7 | S 29 |
| M30 | 8 37 37 | 10°27'29 | 19°13 | 2 <u>0</u> °33 | 26°38 | 12°59 | 12°42 | 3°37 | 4°29 | 1 <u>1</u> °58 | 21°27 | 29°23 | 0°45 | 13°29 | 2 <u>9</u> °12 | M30 |
| T 31 | 8 41 33 | 11≈28'18 | 2939 | 22 る 0 | 27) 43 | 129544 | 12 M 47 | 3 ∡ 741 | 4≈32 | 12 る 0 | 21 II 27 | 29 M 16 | 0 ჲ 42 | 13 ≏ 36 | 29 궁 17 | T 31 |

Delta T = 35.02 sec

Greg. Calendar

FEBRUARY 1662 GC 00:00 UT

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|------|----------|------------------|----------------|-----------------|-----------------|--------|-----------------|----------------|------|----------------|-----------------|-----------------|----------------|----------------|----------------|------|
| W 1 | 8 45 30 | 12≈29'05 | 159554 | 23 る 28 | 28) (48 | 12°R31 | 12 M .52 | 3 ∡ 745 | 4≈36 | 12る 2 | 21°R26 | 29°R 8 | 0 ჲ 39 | 13 ≏ 42 | 29 궁 22 | W 1 |
| T 2 | 8 49 27 | 13°29'51 | 28°56 | 24°57 | 29°52 | 129518 | 12°57 | 3°49 | 4°39 | 12° 4 | 21 II 25 | 28 m 59 | 0°36 | 13°49 | 29°27 | T 2 |
| F 3 | 8 53 23 | 14°30'36 | 11 Ω 45 | 26°27 | 0 Υ 56 | 12° 6 | 13° 1 | 3°52 | 4°43 | 12° 6 | 21°25 | 28°52 | 0°33 | 13°56 | 29°32 | F 3 |
| S 4 | 8 57 20 | 15°31'19 | 24°19 | 27°57 | 1°59 | 11°55 | 13° 6 | 3°56 | 4°46 | 12° 8 | 21°24 | 28°45 | 0°29 | 14° 2 | 29°37 | S 4 |
| S 5 | 9 1 16 | 16°32'01 | 6 m 39 | 29°29 | 3° 2 | 11°45 | 13°10 | 4° 0 | 4°50 | 12°10 | 21°23 | 28°41 | 0°26 | 14° 9 | 29°42 | S 5 |
| M 6 | 9 5 13 | 17°32'42 | 18°47 | 1≈ 1 | 4° 5 | 11°35 | 13°14 | 4° 3 | 4°53 | 12°12 | 21°23 | 28°38 | 0°23 | 14°16 | 29°47 | M 6 |
| T 7 | 9 9 9 | 18°33'22 | 0 ჲ 45 | 2°34 | 5° 8 | 11°26 | 13°18 | 4° 7 | 4°56 | 12°14 | 21°22 | 28°D38 | 0°20 | 14°22 | 29°52 | T 7 |
| W 8 | 9 13 6 | 19°34'00 | 12°35 | 4° 8 | 6°10 | 11°18 | 13°22 | 4°10 | 5° 0 | 12°16 | 21°22 | 28°38 | 0°17 | 14°29 | 29°57 | W 8 |
| T 9 | 9 17 2 | 20°34'37 | 24°23 | 5°43 | 7°12 | 11°11 | 13°25 | 4°13 | 5° 3 | 12°18 | 21°21 | 28°40 | 0°14 | 14°36 | 0≈ 2 | T 9 |
| F 10 | 9 20 59 | 21°35'13 | 6ML12 | 7°18 | 8°13 | 11° 5 | 13°28 | 4°17 | 5° 7 | 12°20 | 21°20 | 28°42 | 0°10 | 14°42 | 0° 6 | F 10 |
| S 11 | 9 24 56 | 22°35'48 | 18° 8 | 8°55 | 9°14 | 10°59 | 13°32 | 4°20 | 5°10 | 12°22 | 21°20 | 28°R43 | 0° 7 | 14°49 | 0°11 | S 11 |
| S 12 | 9 28 52 | 23°36'21 | 0 ∡ 15 | 10°32 | 10°14 | 10°54 | 13°35 | 4°23 | 5°13 | 12°23 | 21°19 | 28°43 | 0° 4 | 14°56 | 0°16 | S 12 |
| M13 | 9 32 49 | 24°36'53 | 12°39 | 12°11 | 11°14 | 10°50 | 13°37 | 4°26 | 5°17 | 12°25 | 21°19 | 28°41 | 0° 1 | 15° 2 | 0°21 | M13 |
| T 14 | 9 36 45 | 25°37'24 | 25°24 | 13°50 | 12°14 | 10°47 | 13°40 | 4°28 | 5°20 | 12°27 | 21°19 | 28°38 | 29 m 58 | 15° 9 | 0°26 | T 14 |
| W15 | 9 40 42 | 26°37'54 | 8 云 33 | 15°30 | 13°13 | 10°44 | 13°42 | 4°31 | 5°23 | 12°29 | 21°18 | 28°34 | 29°54 | 15°16 | 0°30 | W15 |
| T 16 | 9 44 38 | 27°38'22 | 22° 8 | 17°11 | 14°12 | 10°43 | 13°45 | 4°34 | 5°27 | 12°31 | 21°18 | 28°29 | 29°51 | 15°22 | 0°35 | T 16 |
| F 17 | 9 48 35 | 28°38'49 | 6≈ 8 | 18°53 | 15°10 | 10°42 | 13°47 | 4°36 | 5°30 | 12°32 | 21°17 | 28°24 | 29°48 | 15°29 | 0°40 | F 17 |
| S 18 | 9 52 31 | 29°39'14 | 20°30 | 20°36 | 16° 8 | 10°D42 | 13°49 | 4°39 | 5°33 | 12°34 | 21°17 | 28°20 | 29°45 | 15°35 | 0°44 | S 18 |
| S 19 | 9 56 28 | 0 ∺ 39'37 | 5) 9 | 22°20 | 17° 5 | 10°42 | 13°50 | 4°41 | 5°37 | 12°36 | 21°17 | 28°17 | 29°42 | 15°42 | 0°49 | S 19 |
| M20 | 10 0 25 | 1°39'59 | 19°57 | 24° 5 | 18° 2 | 10°43 | 13°52 | 4°43 | 5°40 | 12°37 | 21°16 | 28°15 | 29°39 | 15°49 | 0°53 | M20 |
| T 21 | 10 421 | 2°40'19 | 4℃ 47 | 25°51 | 18°58 | 10°45 | 13°53 | 4°46 | 5°43 | 12°39 | 21°16 | 28°D15 | 29°35 | 15°55 | 0°58 | T 21 |
| W22 | 10 8 18 | 3°40'36 | 19°32 | 27°38 | 19°53 | 10°48 | 13°54 | 4°48 | 5°46 | 12°41 | 21°16 | 28°16 | 29°32 | 16° 2 | 1° 2 | W22 |
| T 23 | 10 12 14 | 4°40'52 | 4 8 6 | 29°26 | 20°48 | 10°52 | 13°55 | 4°50 | 5°50 | 12°42 | 21°16 | 28°18 | 29°29 | 16° 9 | 1° 7 | T 23 |
| F 24 | 10 16 11 | 5°41'06 | 18°25 | 1) (15 | 21°43 | 10°56 | 13°56 | 4°51 | 5°53 | 12°44 | 21°15 | 28°19 | 29°26 | 16°15 | 1°11 | F 24 |
| S 25 | 10 20 7 | 6°41'18 | 2∏26 | 3° 5 | 22°36 | 11° 1 | 13°56 | 4°53 | 5°56 | 12°45 | 21°15 | 28°R20 | 29°23 | 16°22 | 1°16 | S 25 |
| S 26 | 10 24 4 | 7°41'28 | 16°10 | 4°55 | 23°29 | 11° 6 | 13°57 | 4°55 | 5°59 | 12°47 | 21°15 | 28°20 | 29°19 | 16°29 | 1°20 | S 26 |
| M27 | 10 28 0 | 8°41'35 | 29°36 | 6°47 | 24°21 | 11°12 | 13°R57 | 4°57 | 6° 2 | 12°48 | 21°15 | 28°18 | 29°16 | 16°35 | 1°24 | M27 |
| T 28 | 10 31 57 | 9) 41'41 | 129645 | 8) (40 | 25 Y 13 | 119519 | 13 M 57 | 4 ₹ 58 | 6≈ 5 | 12 る 50 | 21 II 15 | 28 m /16 | 29 m 13 | 16 ≏ 42 | 1≈29 | T 28 |

Delta T = 34.97 sec

MARCH 1662 GC 00:00 UT

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|------|----------|-------------------|-----------------|----------------|----------------|----------------|-----------------|----------------|------|----------------|-----------------|-----------------|----------------|----------------|------|------|
| W 1 | 10 35 53 | 10) 41'44 | 259540 | 10) 34 | 26 Y 4 | 119526 | 13°R57 | 4 ₹ 159 | 6≈ 8 | 12 る 51 | 21°R15 | 28°R14 | 29 m 10 | 16 ≏ 49 | 1≈33 | W 1 |
| T 2 | 10 39 50 | 11°41'45 | $8\Omega 20$ | 12°29 | 26°53 | 11°34 | 13 M .56 | 5° 1 | 6°11 | 12°53 | 21 Ⅱ 15 | 28 m /11 | 29° 7 | 16°55 | 1°37 | T 2 |
| F 3 | 10 43 47 | 12°41'44 | 20°48 | 14°25 | 27°43 | 11°43 | 13°56 | 5° 2 | 6°14 | 12°54 | 21°14 | 28° 9 | 29° 4 | 17° 2 | 1°41 | F 3 |
| S 4 | 10 47 43 | 13°41'41 | 3 Mp 5 | 16°21 | 28°31 | 11°52 | 13°55 | 5° 3 | 6°17 | 12°55 | 21°14 | 28° 7 | 29° 0 | 17° 9 | 1°46 | S 4 |
| S 5 | 10 51 40 | 14°41'36 | 15°12 | 18°18 | 29°18 | 12° 2 | 13°54 | 5° 4 | 6°20 | 12°57 | 21°D14 | 28° 6 | 28°57 | 17°15 | 1°50 | S 5 |
| M 6 | 10 55 36 | 15°41'29 | 27°11 | 20°16 | 0 ප 5 | 12°13 | 13°53 | 5° 5 | 6°23 | 12°58 | 21°14 | 28°D 6 | 28°54 | 17°22 | 1°54 | M 6 |
| T 7 | 10 59 33 | 16°41'21 | 9 º 4 | 22°14 | 0°50 | 12°24 | 13°52 | 5° 6 | 6°26 | 12°59 | 21°14 | 28° 6 | 28°51 | 17°29 | 1°58 | T 7 |
| W 8 | 11 3 29 | 17°41'10 | 20°53 | 24°12 | 1°35 | 12°35 | 13°50 | 5° 6 | 6°29 | 13° 0 | 21°14 | 28° 7 | 28°48 | 17°35 | 2° 2 | W 8 |
| T 9 | 11 7 26 | 18°40'57 | 2 M 41 | 26°11 | 2°18 | 12°47 | 13°49 | 5° 7 | 6°32 | 13° 2 | 21°15 | 28° 7 | 28°45 | 17°42 | 2° 5 | T 9 |
| F 10 | 11 11 22 | 19°40'43 | 14°31 | 28° 9 | 3° 0 | 13° 0 | 13°47 | 5° 7 | 6°34 | 13° 3 | 21°15 | 28° 8 | 28°41 | 17°48 | 2° 9 | F 10 |
| S 11 | 11 15 19 | 20°40'27 | 26°28 | 0 ℃ 7 | 3°42 | 13°13 | 13°45 | 5° 8 | 6°37 | 13° 4 | 21°15 | 28° 9 | 28°38 | 17°55 | 2°13 | S 11 |
| S 12 | 11 19 16 | 21°40'09 | 8 ₮ 34 | 2° 4 | 4°22 | 13°26 | 13°42 | 5° 8 | 6°40 | 13° 5 | 21°15 | 28°10 | 28°35 | 18° 2 | 2°17 | S 12 |
| M13 | 11 23 12 | 22°39'50 | 20°56 | 4° 0 | 5° 1 | 13°40 | 13°40 | 5° 8 | 6°43 | 13° 6 | 21°15 | 28°R10 | 28°32 | 18° 8 | 2°21 | M13 |
| T 14 | 11 27 9 | 23°39'29 | 3 云 37 | 5°54 | 5°39 | 13°55 | 13°37 | 5°R 8 | 6°45 | 13° 7 | 21°15 | 28°10 | 28°29 | 18°15 | 2°24 | T 14 |
| W15 | 11 31 5 | 24°39'06 | 16°40 | 7°47 | 6°15 | 14°10 | 13°35 | 5° 8 | 6°48 | 13° 8 | 21°15 | 28°10 | 28°25 | 18°22 | 2°28 | W15 |
| T 16 | 11 35 2 | 25°38'41 | 0≈ 9 | 9°37 | 6°50 | 14°25 | 13°32 | 5° 8 | 6°51 | 13° 9 | 21°16 | 28° 9 | 28°22 | 18°28 | 2°32 | T 16 |
| F 17 | 11 38 58 | 26°38'15 | 14° 6 | 11°25 | 7°24 | 14°41 | 13°28 | 5° 8 | 6°53 | 13°10 | 21°16 | 28° 9 | 28°19 | 18°35 | 2°35 | F 17 |
| S 18 | 11 42 55 | 27°37'46 | 28°28 | 13° 9 | 7°56 | 14°57 | 13°25 | 5° 7 | 6°56 | 13°11 | 21°16 | 28° 9 | 28°16 | 18°42 | 2°38 | S 18 |
| S 19 | 11 46 51 | 28°37'16 | 13) €12 | 14°50 | 8°27 | 15°14 | 13°22 | 5° 7 | 6°58 | 13°12 | 21°17 | 28°D 9 | 28°13 | 18°48 | 2°42 | S 19 |
| M20 | 11 50 48 | 29°36'44 | 28°13 | 16°27 | 8°56 | 15°31 | 13°18 | 5° 7 | 7° 1 | 13°13 | 21°17 | 28°R 9 | 28°10 | 18°55 | 2°45 | M20 |
| T 21 | 11 54 45 | 0 Ƴ 36′09 | 13 Y 21 | 17°59 | 9°24 | 15°49 | 13°14 | 5° 6 | 7° 3 | 13°14 | 21°17 | 28° 9 | 28° 6 | 19° 2 | 2°49 | T 21 |
| W22 | 11 58 41 | 1°35'33 | 28°28 | 19°27 | 9°50 | 16° 7 | 13°10 | 5° 5 | 7° 5 | 13°14 | 21°18 | 28° 9 | 28° 3 | 19° 8 | 2°52 | W22 |
| T 23 | 12 238 | 2°34'54 | 13 8 24 | 20°49 | 10°15 | 16°26 | 13° 6 | 5° 4 | 7° 8 | 13°15 | 21°18 | 28° 8 | 28° 0 | 19°15 | 2°55 | T 23 |
| F 24 | 12 6 34 | 3°34'13 | 28° 2 | 22° 6 | 10°37 | 16°44 | 13° 2 | 5° 3 | 7°10 | 13°16 | 21°18 | 28° 8 | 27°57 | 19°22 | 2°58 | F 24 |
| S 25 | 12 10 31 | 4°33'30 | 12 Ⅱ 18 | 23°17 | 10°58 | 17° 4 | 12°57 | 5° 2 | 7°12 | 13°17 | 21°19 | 28° 7 | 27°54 | 19°28 | 3° 1 | S 25 |
| S 26 | 12 14 27 | 5°32'45 | 26°10 | 24°21 | 11°16 | 17°23 | 12°53 | 5° 1 | 7°15 | 13°17 | 21°19 | 28° 7 | 27°50 | 19°35 | 3° 4 | S 26 |
| M27 | 12 18 24 | 6°31'57 | 9936 | 25°20 | 11°33 | 17°43 | 12°48 | 5° 0 | 7°17 | 13°18 | 21°20 | 28°D 7 | 27°47 | 19°42 | 3° 7 | M27 |
| T 28 | 12 22 20 | 7°31'06 | 22°40 | 26°11 | 11°48 | 18° 3 | 12°43 | 4°59 | 7°19 | 13°19 | 21°20 | 28° 7 | 27°44 | 19°48 | 3°10 | T 28 |
| W29 | 12 26 17 | 8°30'14 | 5 Ω 24 | 26°56 | 12° 1 | 18°24 | 12°38 | 4°57 | 7°21 | 13°19 | 21°21 | 28° 8 | 27°41 | 19°55 | 3°13 | W29 |
| T 30 | 12 30 13 | 9°29'19 | 17°51 | 27°35 | 12°11 | 18°45 | 12°32 | 4°56 | 7°23 | 1 <u>3</u> °20 | 21°21 | 28° 9 | 27°38 | 20° 2 | 3°16 | T 30 |
| F 31 | 12 34 10 | 10 Y 28'22 | 0 m 5 | 28 Y 6 | 12 8 19 | 1999 6 | 12 M 27 | 4 ₹ 54 | 7≈25 | 13 る 20 | 21 II 22 | 28 m /10 | 27 m 35 | 20 ♀ 8 | 3≈18 | F 31 |

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Greg. Calendar

APRIL 1662 GC 00:00 UT

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|------|----------|-------------------|----------------|----------------|---------------|---------------|-----------------|---------------|--------------|----------------|-----------------|-----------------|----------------|----------------|--------|------|
| S 1 | 12 38 7 | 11 Y 27'22 | 12 m 9 | 28 Y 30 | 12825 | 19528 | 12°R22 | 4°R53 | 7≈27 | 13 ට 21 | 21 II 22 | 28 m)11 | 27 m 31 | 20 ≏ 15 | 3≈21 | S 1 |
| S 2 | 12 42 3 | 12°26'21 | 24° 5 | 28°47 | 12°29 | 19°50 | 12 M .16 | 4 ₹ 51 | 7°29 | 13°21 | 21°23 | 28°R12 | 27°28 | 20°22 | 3°24 | S 2 |
| M 3 | 12 46 0 | 13°25'17 | 5 ≏ 56 | 28°58 | 12°R30 | 20°12 | 12°10 | 4°49 | 7°31 | 13°21 | 21°24 | 28°11 | 27°25 | 20°28 | 3°26 | M 3 |
| T 4 | 12 49 56 | 14°24'11 | 17°45 | 29°R 2 | 12°29 | 20°34 | 12° 4 | 4°47 | 7°33 | 13°22 | 21°24 | 28°10 | 27°22 | 20°35 | 3°29 | T 4 |
| W 5 | 12 53 53 | 15°23'03 | 29°34 | 28°59 | 12°25 | 20°57 | 11°58 | 4°45 | 7°35 | 13°22 | 21°25 | 28° 9 | 27°19 | 20°41 | 3°31 | W 5 |
| T 6 | 12 57 49 | 16°21'53 | 11 M 24 | 28°49 | 12°19 | 21°20 | 11°52 | 4°43 | 7°36 | 13°23 | 21°26 | 28° 6 | 27°16 | 20°48 | 3°33 | T 6 |
| F 7 | 13 1 46 | 17°20'42 | 23°19 | 28°34 | 12°10 | 21°44 | 11°46 | 4°41 | 7°38 | 13°23 | 21°26 | 28° 3 | 27°12 | 20°55 | 3°36 | F 7 |
| S 8 | 13 5 42 | 18°19'28 | 5 ₹ 20 | 28°14 | 11°59 | 22° 7 | 11°39 | 4°38 | 7°40 | 13°23 | 21°27 | 28° 0 | 27° 9 | 21° 1 | 3°38 | S 8 |
| S 9 | 13 9 39 | 19°18'13 | 17°30 | 27°48 | 11°46 | 22°31 | 11°33 | 4°36 | 7°41 | 13°23 | 21°28 | 27°57 | 27° 6 | 21° 8 | 3°40 | S 9 |
| M10 | 13 13 36 | 20°16'56 | 29°53 | 27°17 | 11°30 | 22°55 | 11°26 | 4°33 | 7°43 | 13°23 | 21°29 | 27°55 | 27° 3 | 21°15 | 3°42 | M10 |
| T 11 | 13 17 32 | 21°15'37 | 12 る 32 | 26°43 | 11°12 | 23°20 | 11°20 | 4°31 | 7°45 | 13°24 | 21°29 | 27°53 | 27° 0 | 21°21 | 3°44 | T 11 |
| W12 | 13 21 29 | 22°14'17 | 25°31 | 26° 6 | 10°51 | 23°44 | 11°13 | 4°28 | 7°46 | 13°24 | 21°30 | 27°D53 | 26°56 | 21°28 | 3°46 | W12 |
| T 13 | 13 25 25 | 23°12'55 | 8≈52 | 25°26 | 10°28 | 24° 9 | 11° 6 | 4°26 | 7°48 | 13°24 | 21°31 | 27°54 | 26°53 | 21°35 | 3°48 | T 13 |
| F 14 | 13 29 22 | 24°11'31 | 22°37 | 24°45 | 10° 3 | 24°34 | 10°59 | 4°23 | 7°49 | 13°24 | 21°32 | 27°55 | 26°50 | 21°41 | 3°50 | F 14 |
| S 15 | 13 33 18 | 25°10'05 | 6) €49 | 24° 2 | 9°36 | 25° 0 | 10°52 | 4°20 | 7°50 | 13°R24 | 21°33 | 27°57 | 26°47 | 21°48 | 3°52 | S 15 |
| S 16 | 13 37 15 | 26° 8'38 | 21°25 | 23°20 | 9° 7 | 25°25 | 10°45 | 4°17 | 7°52 | 13°24 | 21°33 | 27°R58 | 26°44 | 21°55 | 3°53 | S 16 |
| M17 | 13 41 11 | 27° 7'09 | 6 ℃ 21 | 22°38 | 8°36 | 25°51 | 10°38 | 4°14 | 7°53 | 13°24 | 21°34 | 27°58 | 26°41 | 22° 1 | 3°55 | M17 |
| T 18 | 13 45 8 | 28° 5'39 | 21°31 | 21°58 | 8° 4 | 26°17 | 10°30 | 4°11 | 7°54 | 13°24 | 21°35 | 27°56 | 26°37 | 22° 8 | 3°57 | T 18 |
| W19 | 13 49 5 | 29° 4'06 | 6 8 44 | 21°20 | 7°30 | 26°43 | 10°23 | 4° 8 | 7°55 | 13°24 | 21°36 | 27°53 | 26°34 | 22°15 | 3°58 | W19 |
| T 20 | 13 53 1 | 0 8 2'32 | 21°52 | 20°44 | 6°55 | 27°10 | 10°16 | 4° 4 | 7°57 | 13°23 | 21°37 | 27°49 | 26°31 | 22°21 | 3°59 | T 20 |
| F 21 | 13 56 58 | 1° 0'55 | 6 Ⅱ 45 | 20°12 | 6°19 | 27°37 | 10° 8 | 4° 1 | 7°58 | 13°23 | 21°38 | 27°44 | 26°28 | 22°28 | 4° 1 | F 21 |
| S 22 | 14 0 54 | 1°59'17 | 21°15 | 19°43 | 5°42 | 28° 4 | 10° 1 | 3°58 | 7°59 | 13°23 | 21°39 | 27°39 | 26°25 | 22°35 | 4° 2 | S 22 |
| S 23 | 14 451 | 2°57'37 | 59518 | 19°19 | 5° 4 | 28°31 | 9°53 | 3°54 | 8° 0 | 13°23 | 21°40 | 27°36 | 26°22 | 22°41 | 4° 3 | S 23 |
| M24 | 14 8 47 | 3°55'54 | 18°52 | 18°59 | 4°27 | 28°58 | 9°46 | 3°51 | 8° 1 | 13°22 | 21°41 | 27°33 | 26°18 | 22°48 | 4° 4 | M24 |
| T 25 | 14 12 44 | 4°54'09 | 1 Ω 58 | 18°43 | 3°49 | 29°25 | 9°38 | 3°47 | 8° 1 | 13°22 | 21°42 | 27°D32 | 26°15 | 22°55 | 4° 5 | T 25 |
| W26 | 14 16 40 | 5°52'23 | 14°41 | 18°32 | 3°11 | 29°53 | 9°30 | 3°44 | 8° 2 | 13°22 | 21°43 | 27°32 | 26°12 | 23° 1 | 4° 6 | W26 |
| T 27 | 14 20 37 | 6°50'34 | 27° 4 | 18°26 | 2°34 | $0\Omega 21$ | 9°23 | 3°40 | 8° 3 | 13°21 | 21°44 | 27°33 | 26° 9 | 23° 8 | 4° 7 | T 27 |
| F 28 | 14 24 34 | 7°48'43 | 9 m /11 | 18°D24 | 1°57 | 0°49 | 9°15 | 3°36 | 8° 4 | 13°21 | 21°45 | 27°35 | 26° 6 | 23°15 | 4° 8 | F 28 |
| S 29 | 14 28 30 | 8°46'50 | 21° 8 | 18°28 | 1°22 | 1°17 | 9° 7 | 3°32 | 8° 5 | 13°21 | 21°46 | 27°36 | 26° 2 | 23°21 | 4° 9 | S 29 |
| S 30 | 14 32 27 | 9844'56 | 2 ჲ 58 | 18 Y 36 | 0 8 47 | 1 Q 46 | 9 M 0 | 3 ₹ 29 | 8 ≈ 5 | 13る20 | 21 Ⅱ 47 | 27°R36 | 25 m 59 | 23 ≏ 28 | 4≈10 | S 30 |

Delta T = 34.86 sec

MAY 1662 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q. | ð | 4 | ħ |)f(| ¥. | В | ß | Ω | Ç | , К | Day |
|------|----------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|-----------------|----------------|----------|----------------|--------|------|
| M 1 | 14 36 23 | 10842'59 | 14 ≏ 46 | 18 Y 49 | 0°R14 | 2 Ω 14 | 8°R52 | 3°R25 | 8≈ 6 | 13°R20 | 21 Д 48 | 27°R35 | 25 Mp 56 | 23 ₾ 35 | 4≈10 | M 1 |
| T 2 | 14 40 20 | 11°41'01 | 26°34 | 19° 6 | 29 Y 42 | 2°43 | 8 M .44 | 3 ∡ 121 | 8° 6 | 13 る 19 | 21°50 | 27 m 31 | 25°53 | 23°41 | 4°11 | T 2 |
| W 3 | 14 44 16 | 12°39'01 | 8 M 25 | 19°28 | 29°12 | 3°12 | 8°37 | 3°17 | 8° 7 | 13°19 | 21°51 | 27°25 | 25°50 | 23°48 | 4°11 | W 3 |
| T 4 | 14 48 13 | 13°36'59 | 20°21 | 19°55 | 28°44 | 3°41 | 8°29 | 3°13 | 8° 7 | 13°18 | 21°52 | 27°18 | 25°47 | 23°55 | 4°12 | T 4 |
| F 5 | 14 52 9 | 14°34'56 | 2 ₹ 23 | 20°25 | 28°18 | 4°10 | 8°22 | 3° 9 | 8° 8 | 13°17 | 21°53 | 27° 9 | 25°43 | 24° 1 | 4°12 | F 5 |
| S 6 | 14 56 6 | 15°32'52 | 14°34 | 20°59 | 27°54 | 4°39 | 8°14 | 3° 5 | 8° 8 | 13°17 | 21°54 | 27° 0 | 25°40 | 24° 8 | 4°12 | S 6 |
| S 7 | 15 0 2 | 16°30'46 | 26°54 | 21°38 | 27°32 | 5° 9 | 8° 7 | 3° 1 | 8° 8 | 13°16 | 21°55 | 26°52 | 25°37 | 24°15 | 4°13 | S 7 |
| M 8 | 15 3 59 | 17°28'38 | 9 ප 26 | 22°20 | 27°12 | 5°39 | 7°59 | 2°56 | 8° 9 | 13°15 | 21°57 | 26°45 | 25°34 | 24°21 | 4°13 | M 8 |
| T 9 | 15 7 56 | 18°26'30 | 22°10 | 23° 6 | 26°55 | 6° 8 | 7°52 | 2°52 | 8° 9 | 13°15 | 21°58 | 26°40 | 25°31 | 24°28 | 4°R13 | T 9 |
| W10 | 15 11 52 | 19°24'20 | 5≈10 | 23°55 | 26°40 | 6°38 | 7°44 | 2°48 | 8° 9 | 13°14 | 21°59 | 26°37 | 25°27 | 24°35 | 4°13 | W10 |
| T 11 | 15 15 49 | 20°22'09 | 18°27 | 24°48 | 26°28 | 7° 8 | 7°37 | 2°44 | 8° 9 | 13°13 | 22° 0 | 26°D36 | 25°24 | 24°41 | 4°13 | T 11 |
| F 12 | 15 19 45 | 21°19'56 | 2) 5 | 25°44 | 26°18 | 7°39 | 7°30 | 2°39 | 8° 9 | 13°12 | 22° 2 | 26°36 | 25°21 | 24°48 | 4°13 | F 12 |
| S 13 | 15 23 42 | 22°17'43 | 16° 4 | 26°43 | 26°10 | 8° 9 | 7°22 | 2°35 | 8°R 9 | 13°11 | 22° 3 | 26°37 | 25°18 | 24°55 | 4°12 | S 13 |
| S 14 | 15 27 38 | 23°15'28 | 0 Υ 25 | 27°45 | 26° 5 | 8°39 | 7°15 | 2°31 | 8° 9 | 13°11 | 22° 4 | 26°R37 | 25°15 | 25° 1 | 4°12 | S 14 |
| M15 | 15 31 35 | 24°13'13 | 15° 5 | 28°51 | 26° 3 | 9°10 | 7° 8 | 2°26 | 8° 9 | 13°10 | 22° 5 | 26°36 | 25°12 | 25° 8 | 4°12 | M15 |
| T 16 | 15 35 31 | 25°10'56 | 0 8 2 | 29°59 | 26°D 2 | 9°41 | 7° 1 | 2°22 | 8° 9 | 13° 9 | 22° 7 | 26°32 | 25° 8 | 25°15 | 4°11 | T 16 |
| W17 | 15 39 28 | 26° 8'38 | 15° 6 | 1810 | 26° 4 | 10°12 | 6°54 | 2°18 | 8° 9 | 13° 8 | 22° 8 | 26°26 | 25° 5 | 25°21 | 4°11 | W17 |
| T 18 | 15 43 25 | 27° 6'19 | 0 Π 9 | 2°24 | 26° 9 | 10°43 | 6°47 | 2°13 | 8° 8 | 13° 7 | 22° 9 | 26°18 | 25° 2 | 25°28 | 4°10 | T 18 |
| F 19 | 15 47 21 | 28° 3'58 | 15° 2 | 3°40 | 26°15 | 11°14 | 6°41 | 2° 9 | 8° 8 | 13° 6 | 22°11 | 26° 9 | 24°59 | 25°35 | 4°10 | F 19 |
| S 20 | 15 51 18 | 29° 1'37 | 29°35 | 4°59 | 26°24 | 11°45 | 6°34 | 2° 4 | 8° 8 | 13° 5 | 22°12 | 26° 0 | 24°56 | 25°41 | 4° 9 | S 20 |
| S 21 | 15 55 14 | 29°59'13 | 139544 | 6°21 | 26°35 | 12°17 | 6°28 | 2° 0 | 8° 7 | 13° 4 | 22°13 | 25°51 | 24°53 | 25°48 | 4° 8 | S 21 |
| M22 | 15 59 11 | 0耳56'49 | 27°23 | 7°45 | 26°48 | 12°48 | 6°21 | 1°55 | 8° 7 | 13° 3 | 22°15 | 25°45 | 24°49 | 25°55 | 4° 7 | M22 |
| T 23 | 16 3 7 | 1°54'23 | $10\Omega 34$ | 9°12 | 27° 3 | 13°20 | 6°15 | 1°51 | 8° 6 | 13° 2 | 22°16 | 25°41 | 24°46 | 26° 1 | 4° 6 | T 23 |
| W24 | 16 7 4 | 2°51'56 | 23°20 | 10°42 | 27°19 | 13°51 | 6° 9 | 1°46 | 8° 6 | 13° 0 | 22°17 | 25°39 | 24°43 | 26° 8 | 4° 5 | W24 |
| T 25 | 16 11 0 | 3°49'27 | 5 m 43 | 12°13 | 27°38 | 14°23 | 6° 2 | 1°42 | 8° 5 | 12°59 | 22°19 | 25°D38 | 24°40 | 26°15 | 4° 4 | T 25 |
| F 26 | 16 14 57 | 4°46'57 | 17°50 | 13°48 | 27°59 | 14°55 | 5°57 | 1°38 | 8° 5 | 12°58 | 22°20 | 25°39 | 24°37 | 26°21 | 4° 3 | F 26 |
| S 27 | 16 18 54 | 5°44'25 | 29°46 | 15°25 | 28°21 | 15°27 | 5°51 | 1°33 | 8° 4 | 12°57 | 22°21 | 25°R39 | 24°33 | 26°28 | 4° 2 | S 27 |
| S 28 | 16 22 50 | 6°41'52 | 11 ≏ 35 | 17° 4 | 28°45 | 15°59 | 5°45 | 1°29 | 8° 3 | 12°56 | 22°23 | 25°37 | 24°30 | 26°35 | 4° 1 | S 28 |
| M29 | 16 26 47 | 7°39'18 | 23°22 | 18°46 | 29°10 | 16°32 | 5°39 | 1°24 | 8° 2 | 12°54 | 22°24 | 25°34 | 24°27 | 26°41 | 4° 0 | M29 |
| T 30 | 16 30 43 | 8°36'43 | 5 M 12 | 20°30 | 29°38 | 17° 4 | 5°34 | 1°20 | 8° 2 | 12°53 | 22°26 | 25°28 | 24°24 | 26°48 | 3°58 | T 30 |
| W31 | 16 34 40 | 9 Ⅱ 34'07 | 17 M 8 | 22817 | 0 8 6 | 17 Ω 37 | 5 M 29 | 1 √ 16 | 8≈ 1 | 12 る 52 | 22 II 27 | 25 m 20 | 24 Mp 21 | 26 ♀ 55 | 3≈57 | W31 |

Delta T = 34.80 sec Greg.

Greg. Calendar

| JUNE 1662 GC | 00:00 UT |
|--------------|----------|
| JUNE 1002 GC | 00:00 01 |

| Day | Sid.t | \odot | D | φ | Ŷ | ď | 4 | ħ |)Å(| ¥ | P 2 | ß | Ω | ţ | Š | Day |
|------|----------|----------|-----------------|---------------|----------------|----------------|----------------|-----------------|---------------|----------------|-----------------|---------|----------------|----------------|-------|------|
| T 1 | 16 38 36 | 10耳31'30 | 29 IL 12 | 24 8 6 | 0 8 37 | 18 N 9 | 5°R23 | 1°R11 | 8°R 0 | 12°R51 | 22 II 28 | 25°R 9 | 24 Mp 18 | 27 ♀ 1 | 3°R55 | T 1 |
| F 2 | 16 42 33 | 11°28'52 | 11 ∡ 126 | 25°57 | 1° 8 | 18°42 | 5 M .18 | 1 才 7 | 7 ≈ 59 | 12 る 49 | 22°30 | 24 M 57 | 24°14 | 27° 8 | 3≈54 | F 2 |
| S 3 | 16 46 29 | 12°26'13 | 23°50 | 27°51 | 1°41 | 19°15 | 5°14 | 1° 2 | 7°58 | 12°48 | 22°31 | 24°44 | 24°11 | 27°15 | 3°52 | S 3 |
| S 4 | 16 50 26 | 13°23'33 | 6 පි 26 | 29°47 | 2°15 | 19°48 | 5° 9 | 0°58 | 7°57 | 12°47 | 22°33 | 24°32 | 24° 8 | 27°21 | 3°50 | S 4 |
| M 5 | 16 54 23 | 14°20'53 | 19°12 | 1 Ⅱ 46 | 2°51 | 20°21 | 5° 4 | 0°54 | 7°56 | 12°45 | 22°34 | 24°21 | 24° 5 | 27°28 | 3°49 | M 5 |
| T 6 | 16 58 19 | 15°18'12 | 2≈11 | 3°46 | 3°28 | 20°54 | 5° 0 | 0°50 | 7°55 | 12°44 | 22°35 | 24°13 | 24° 2 | 27°35 | 3°47 | T 6 |
| W 7 | 17 2 16 | 16°15'31 | 15°21 | 5°49 | 4° 6 | 21°27 | 4°56 | 0°45 | 7°54 | 12°43 | 22°37 | 24° 8 | 23°59 | 27°41 | 3°45 | W 7 |
| T 8 | 17 6 12 | 17°12'49 | 28°44 | 7°53 | 4°45 | 22° 0 | 4°51 | 0°41 | 7°52 | 12°41 | 22°38 | 24° 5 | 23°55 | 27°48 | 3°43 | T 8 |
| F 9 | 17 10 9 | 18°10'06 | 12) 22 | 9°59 | 5°25 | 22°33 | 4°47 | 0°37 | 7°51 | 12°40 | 22°40 | 24° 4 | 23°52 | 27°55 | 3°41 | F 9 |
| S 10 | 17 14 5 | 19° 7'23 | 26°15 | 12° 7 | 6° 6 | 23° 7 | 4°44 | 0°33 | 7°50 | 12°38 | 22°41 | 24° 4 | 23°49 | 28° 1 | 3°39 | S 10 |
| S 11 | 17 18 2 | 20° 4'40 | 10 Y 24 | 14°16 | 6°48 | 23°40 | 4°40 | 0°29 | 7°49 | 12°37 | 22°43 | 24° 3 | 23°46 | 28° 8 | 3°37 | S 11 |
| M12 | 17 21 58 | 21° 1'57 | 24°47 | 16°26 | 7°32 | 24°14 | 4°37 | 0°25 | 7°47 | 12°35 | 22°44 | 24° 1 | 23°43 | 28°15 | 3°35 | M12 |
| T 13 | 17 25 55 | 21°59'14 | 9 8 23 | 18°37 | 8°16 | 24°48 | 4°33 | 0°21 | 7°46 | 12°34 | 22°45 | 23°57 | 23°39 | 28°21 | 3°33 | T 13 |
| W14 | 17 29 52 | 22°56'30 | 24° 7 | 20°48 | 9° 1 | 25°22 | 4°30 | 0°17 | 7°44 | 12°32 | 22°47 | 23°49 | 23°36 | 28°28 | 3°30 | W14 |
| T 15 | 17 33 48 | 23°53'46 | 8耳52 | 23° 0 | 9°46 | 25°56 | 4°27 | 0°13 | 7°43 | 12°31 | 22°48 | 23°40 | 23°33 | 28°35 | 3°28 | T 15 |
| F 16 | 17 37 45 | 24°51'01 | 23°29 | 25°11 | 10°33 | 26°30 | 4°24 | 0° 9 | 7°41 | 12°29 | 22°50 | 23°29 | 23°30 | 28°41 | 3°26 | F 16 |
| S 17 | 17 41 41 | 25°48'17 | 7952 | 27°23 | 11°21 | 27° 4 | 4°22 | 0° 6 | 7°40 | 12°28 | 22°51 | 23°17 | 23°27 | 28°48 | 3°23 | S 17 |
| S 18 | 17 45 38 | 26°45'31 | 21°54 | 29°33 | 12° 9 | 27°38 | 4°19 | 0° 2 | 7°38 | 12°26 | 22°53 | 23° 7 | 23°24 | 28°55 | 3°21 | S 18 |
| M19 | 17 49 34 | 27°42'46 | 5 Ω 31 | 19543 | 12°58 | 28°12 | 4°17 | 29 M .58 | 7°37 | 12°25 | 22°54 | 22°58 | 23°20 | 29° 1 | 3°18 | M19 |
| T 20 | 17 53 31 | 28°39'59 | 18°42 | 3°53 | 13°47 | 28°46 | 4°15 | 29°54 | 7°35 | 12°23 | 22°55 | 22°52 | 23°17 | 29° 8 | 3°16 | T 20 |
| W21 | 17 57 28 | 29°37'12 | 1 m 28 | 6° 0 | 14°37 | 29°21 | 4°13 | 29°51 | 7°33 | 12°22 | 22°57 | 22°49 | 23°14 | 29°15 | 3°13 | W21 |
| T 22 | 18 1 24 | 0934'25 | 13°54 | 8° 7 | 15°28 | 29°55 | 4°11 | 29°47 | 7°31 | 12°20 | 22°58 | 22°48 | 23°11 | 29°21 | 3°10 | T 22 |
| F 23 | 18 5 21 | 1°31'37 | 26° 2 | 10°12 | 16°20 | 0 m /30 | 4°10 | 29°44 | 7°30 | 12°18 | 23° 0 | 22°48 | 23° 8 | 29°28 | 3° 8 | F 23 |
| S 24 | 18 9 17 | 2°28'49 | 7 ≙ 58 | 12°15 | 17°12 | 1° 5 | 4° 9 | 29°41 | 7°28 | 12°17 | 23° 1 | 22°47 | 23° 5 | 29°35 | 3° 5 | S 24 |
| S 25 | 18 13 14 | 3°26'00 | 19°49 | 14°16 | 18° 5 | 1°39 | 4° 7 | 29°37 | 7°26 | 12°15 | 23° 2 | 22°46 | 23° 1 | 29°41 | 3° 2 | S 25 |
| M26 | 18 17 10 | 4°23'11 | 1 M .38 | 16°16 | 18°58 | 2°14 | 4° 6 | 29°34 | 7°24 | 12°14 | 23° 4 | 22°44 | 22°58 | 29°48 | 2°59 | M26 |
| T 27 | 18 21 7 | 5°20'22 | 13°31 | 18°14 | 19°52 | 2°49 | 4° 6 | 29°31 | 7°22 | 12°12 | 23° 5 | 22°38 | 22°55 | 29°55 | 2°57 | T 27 |
| W28 | 18 25 3 | 6°17'32 | 25°32 | 20°10 | 20°46 | 3°24 | 4° 5 | 29°28 | 7°20 | 12°10 | 23° 7 | 22°31 | 22°52 | 0 M 1 | 2°54 | W28 |
| T 29 | 18 29 0 | 7°14'42 | 7 ,7 44 | 22° 4 | 21°41 | 3°59 | 4° 5 | 29°25 | 7°18 | 12° 9 | 23° 8 | 22°21 | 22°49 | 0° 8 | 2°51 | T 29 |
| F 30 | 18 32 57 | 8911'52 | 20 × 10 | 23955 | 22 8 36 | 4 Mp 34 | 4M 4 | 29 M 22 | 7≈17 | 12중 7 | 23耳 9 | 22 Mg 9 | 22 m 45 | 0 M .15 | 2≈48 | F 30 |

Delta T = 34.74 sec

JULY 1662 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | В | ß | Ω | Ç | ç | Day |
|------|----------|------------------|----------------|----------------|-----------------|----------------|---------------|-----------------|-------|----------------|-----------------|-----------------|----------------|----------------|-------|------|
| S 1 | 18 36 53 | 99 9'02 | 2 ප් 49 | 259345 | 23 8 32 | 5 m) 9 | 4°D 4 | 29°R19 | 7°R15 | 12°R 6 | 23 I I11 | 21°R57 | 22 M 42 | 0 M 21 | 2°R45 | S 1 |
| S 2 | 18 40 50 | 10° 6'12 | 15°42 | 27°33 | 24°28 | 5°45 | 4M 4 | 29 M .16 | 7≈12 | 12පි 4 | 23°12 | 21 m/45 | 22°39 | 0°28 | 2≈42 | S 2 |
| M 3 | 18 44 46 | 11° 3'23 | 28°49 | 29°19 | 25°25 | 6°20 | 4° 5 | 29°13 | 7°10 | 12° 2 | 23°14 | 21°35 | 22°36 | 0°35 | 2°39 | M 3 |
| T 4 | 18 48 43 | 12° 0'33 | 12 ≈ 8 | 1 0 3 | 26°22 | 6°55 | 4° 5 | 29°11 | 7° 8 | 12° 1 | 23°15 | 21°28 | 22°33 | 0°41 | 2°36 | T 4 |
| W 5 | 18 52 39 | 12°57'44 | 25°38 | 2°45 | 27°20 | 7°31 | 4° 6 | 29° 8 | 7° 6 | 11°59 | 23°16 | 21°23 | 22°30 | 0°48 | 2°33 | W 5 |
| T 6 | 18 56 36 | 13°54'55 | 9 米 17 | 4°24 | 28°18 | 8° 6 | 4° 6 | 29° 5 | 7° 4 | 11°58 | 23°18 | 21°20 | 22°26 | 0°55 | 2°29 | T 6 |
| F 7 | 19 0 32 | 14°52'06 | 23° 6 | 6° 2 | 29°16 | 8°42 | 4° 7 | 29° 3 | 7° 2 | 11°56 | 23°19 | 21°D20 | 22°23 | 1° 1 | 2°26 | F 7 |
| S 8 | 19 4 29 | 15°49'18 | 7 ℃ 3 | 7°38 | 0П15 | 9°18 | 4° 9 | 29° 1 | 7° 0 | 11°54 | 23°20 | 21°20 | 22°20 | 1° 8 | 2°23 | S 8 |
| S 9 | 19 8 26 | 16°46'31 | 21° 8 | 9°12 | 1°14 | 9°53 | 4°10 | 28°58 | 6°58 | 11°53 | 23°22 | 21°R20 | 22°17 | 1°15 | 2°20 | S 9 |
| M10 | 19 12 22 | 17°43'44 | 5 8 21 | 10°43 | 2°14 | 10°29 | 4°11 | 28°56 | 6°55 | 11°51 | 23°23 | 21°19 | 22°14 | 1°21 | 2°17 | M10 |
| T 11 | 19 16 19 | 18°40'58 | 19°39 | 12°13 | 3°14 | 11° 5 | 4°13 | 28°54 | 6°53 | 11°49 | 23°24 | 21°16 | 22°11 | 1°28 | 2°13 | T 11 |
| W12 | 19 20 15 | 19°38'13 | 4 II 0 | 13°41 | 4°14 | 11°41 | 4°15 | 28°52 | 6°51 | 11°48 | 23°26 | 21°10 | 22° 7 | 1°35 | 2°10 | W12 |
| T 13 | 19 24 12 | 20°35'28 | 18°19 | 15° 6 | 5°15 | 12°17 | 4°17 | 28°50 | 6°49 | 11°46 | 23°27 | 21° 2 | 22° 4 | 1°41 | 2° 7 | T 13 |
| F 14 | 19 28 8 | 21°32'45 | 2932 | 16°29 | 6°16 | 12°53 | 4°19 | 28°48 | 6°46 | 11°45 | 23°28 | 20°53 | 22° 1 | 1°48 | 2° 3 | F 14 |
| S 15 | 19 32 5 | 22°30'01 | 16°32 | 17°51 | 7°17 | 13°30 | 4°22 | 28°47 | 6°44 | 11°43 | 23°30 | 20°44 | 21°58 | 1°55 | 2° 0 | S 15 |
| S 16 | 19 36 1 | 23°27'18 | 0 Ω 16 | 19°10 | 8°18 | 14° 6 | 4°24 | 28°45 | 6°42 | 11°41 | 23°31 | 20°35 | 21°55 | 2° 2 | 1°57 | S 16 |
| M17 | 19 39 58 | 24°24'36 | 13°41 | 20°26 | 9°20 | 14°42 | 4°27 | 28°43 | 6°40 | 11°40 | 23°32 | 20°28 | 21°51 | 2° 8 | 1°53 | M17 |
| T 18 | 19 43 55 | 25°21'54 | 26°44 | 21°41 | 10°22 | 15°19 | 4°30 | 28°42 | 6°37 | 11°38 | 23°33 | 20°23 | 21°48 | 2°15 | 1°50 | T 18 |
| W19 | 19 47 51 | 26°19'13 | 9 m 26 | 22°53 | 11°24 | 15°55 | 4°33 | 28°40 | 6°35 | 11°37 | 23°35 | 20°21 | 21°45 | 2°22 | 1°47 | W19 |
| T 20 | 19 51 48 | 27°16'32 | 21°49 | 24° 3 | 12°27 | 16°32 | 4°36 | 28°39 | 6°33 | 11°35 | 23°36 | 20°D20 | 21°42 | 2°28 | 1°43 | T 20 |
| F 21 | 19 55 44 | 28°13'51 | 3 ≙ 57 | 25°10 | 13°30 | 17° 8 | 4°40 | 28°38 | 6°30 | 11°34 | 23°37 | 20°21 | 21°39 | 2°35 | 1°40 | F 21 |
| S 22 | 19 59 41 | 29°11'11 | 15°55 | 26°15 | 14°33 | 17°45 | 4°43 | 28°37 | 6°28 | 11°32 | 23°38 | 20°22 | 21°36 | 2°42 | 1°36 | S 22 |
| S 23 | 20 3 37 | 0 ん 8'31 | 27°46 | 27°17 | 15°36 | 18°22 | 4°47 | 28°36 | 6°25 | 11°31 | 23°39 | 20°R23 | 21°32 | 2°48 | 1°33 | S 23 |
| M24 | 20 7 34 | 1° 5'52 | 9 M 37 | 28°16 | 16°40 | 18°59 | 4°51 | 28°35 | 6°23 | 11°29 | 23°41 | 20°22 | 21°29 | 2°55 | 1°30 | M24 |
| T 25 | 20 11 30 | 2° 3'14 | 21°32 | 29°12 | 17°43 | 19°36 | 4°55 | 28°34 | 6°21 | 11°28 | 23°42 | 20°20 | 21°26 | 3° 2 | 1°26 | T 25 |
| W26 | 20 15 27 | 3° 0'36 | 3 ₹ 36 | 0 m y 5 | 18°47 | 20°13 | 4°59 | 28°33 | 6°18 | 11°26 | 23°43 | 20°16 | 21°23 | 3° 8 | 1°23 | W26 |
| T 27 | 20 19 24 | 3°57'59 | 15°53 | 0°55 | 19°52 | 20°50 | 5° 4 | 28°33 | 6°16 | 11°25 | 23°44 | 20°10 | 21°20 | 3°15 | 1°19 | T 27 |
| F 28 | 20 23 20 | 4°55'22 | 28°27 | 1°42 | 20°56 | 21°27 | 5° 8 | 28°32 | 6°13 | 11°23 | 23°45 | 20° 4 | 21°17 | 3°22 | 1°16 | F 28 |
| S 29 | 20 27 17 | 5°52'46 | 11 중 18 | 2°25 | 22° 1 | 22° 4 | 5°13 | 28°32 | 6°11 | 11°22 | 23°46 | 19°56 | 21°13 | 3°28 | 1°13 | S 29 |
| S 30 | 20 31 13 | 6°50'11 | 24°27 | 3° 5 | 23° 6 | 22°41 | 5°18 | 28°31 | 6° 9 | 11°20 | 23°47 | 19°49 | 21°10 | 3°35 | 1° 9 | S 30 |
| M31 | 20 35 10 | 7 Ω 47'37 | 7≈54 | 3 m 40 | 24 I I11 | 23 M 18 | 5 M 23 | 28 M 31 | 6≈ 6 | 11 궁 19 | 23Ⅱ49 | 19 m /42 | 21 Mg 7 | 3 M .42 | 1≈ 6 | M31 |

Delta T = 34.69 sec

Greg. Calendar

AUGUST 1662 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)Å(| ¥ | В | U | ಬ | Ç | ę, | Day |
|--------------|----------------------|----------------------|-------------------------|----------------|----------------|------------------------|---------------|-----------------|--------------|----------------|----------------|-----------------|----------------|----------------|------------------------|--------------|
| T 1 | 20 39 6 | 8 Ω 45'04 | 21≈36 | 4 Mp 12 | 25 Ⅱ 16 | 23 Mp 56 | 5 M 28 | 28°R31 | 6°R 4 | 11°R18 | 23 П 50 | 19°R38 | 21 Mp 4 | 3 M .48 | 1°R 3 | T 1 |
| W 2 | 20 43 3 | 9°42'32 | 5 ∺ 31 | 4°39 | 26°21 | 24°33 | 5°34 | 28°D31 | 6≈ 2 | 11 궁 16 | 23°51 | 19 m 35 | 21° 1 | 3°55 | 0≈59 | W 2 |
| T 3 | 20 46 59 | 10°40'01 | 19°34 | 5° 2 | 27°27 | 25°11 | 5°39 | 28M31 | 5°59 | 11°15 | 23°52 | 19°D34 | 20°57 | 4° 2 | 0°56 | T 3 |
| F 4 | 20 50 56 | 11°37'32 | 3 Υ 44 | 5°21 | 28°33 | 25°48 | 5°45 | 28°31 | 5°57 | 11°13 | 23°53 | 19°35 | 20°54 | 4° 8 | 0°53 | F 4 |
| S 5 | 20 54 53 | 12°35'03 | 17°56 | 5°34 | 29°39 | 26°26 | 5°51 | 28°31 | 5°54 | 11°12 | 23°54 | 19°36 | 20°51 | 4°15 | 0°49 | S 5 |
| S 6 | 20 58 49 | 13°32'36 | 2810 | 5°43 | 0ණ45 | 27° 3 | 5°56 | 28°32 | 5°52 | 11°11 | 23°55 | 19°38 | 20°48 | 4°22 | 0°46 | S 6 |
| M 7 | 21 2 46 | 14°30'11 | 16°21 | 5°R46 | 1°52 | 27°41 | 6° 3 | 28°32 | 5°50 | 11° 9 | 23°56 | 19°R38 | 20°45 | 4°28 | 0°43 | M 7 |
| T 8 | 21 6 42 | 15°27'48 | 0Д30 | 5°44 | 2°58 | 28°19 | 6° 9 | 28°32 | 5°47 | 11° 8 | 23°57 | 19°37 | 20°42 | 4°35 | 0°39 | T 8 |
| W 9 | 21 10 39 | 16°25'25 | 14°33 | 5°37 | 4° 5 | 28°57 | 6°15 | 28°33 | 5°45 | 11° 7 | 23°58 | 19°35 | 20°38 | 4°42 | 0°36 | W 9 |
| T 10 F 11 | 21 14 35 21 18 32 | 17°23'05 18°20'46 | 28°29 12 © 15 | 5°24 5° 5 | 5°12 6°19 | 29°35 0 Ω 13 | 6°22 6°28 | 28°34 28°35 | 5°43 5°40 | 11° 6 11° 5 | 23°59 24° 0 | 19°31 19°27 | 20°35 20°32 | 4°49 4°55 | 0°33 0°30 | T 10 F 11 |
| S 12 | 21 18 32 21 22 28 | 18 20 46 19°18'28 | 25°49 | 4°41 | 7°27 | 0°51 | 6°35 | 28°35 | 5°38 | 11° 3 | 24° 0 | 19°27 | 20°29 | 5° 2 | 0°27 | S 12 |
| | | | | | | | | | | _ | | | | | | |
| S 13 | 21 26 25 | 20°16'12 | 9€ 9 | 4°12 | 8°34 | 1°29 | 6°42 | 28°36 | 5°36 | 11° 2 | 24° 1 | 19°18 | 20°26 | 5° 9 | 0°24 | S 13 |
| M14 | 21 30 22 | 21°13'57 | 22°13 | 3°37 | 9°42 | 2° 7 | 6°49 | 28°38 | 5°33 | 11° 1 | 24° 2 | 19°14 | 20°22 | 5°15 | 0°21 | M14 |
| T 15 W16 | 21 34 18 21 38 15 | 22°11'44 23° 9'31 | 5 m 0 17°32 | 2°58 2°14 | 10°49 11°57 | 2°46 3°24 | 6°56 7°4 | 28°39 28°40 | 5°31 5°29 | 11° 0 10°59 | 24° 3 24° 4 | 19°12 19°D11 | 20°19 20°16 | 5°22 5°29 | 0°18 0°14 | T 15 W16 |
| T 17 | 21 38 13 | 23° 9'31 24° 7'21 | 29°49 | 1°26 | 13° 5 | 4° 2 | 7°11 | 28°40 28°41 | 5°27 | 10°59 | 24° 4 | 19°12 | 20°16 20°13 | 5°35 | 0°14 0°11 | T 17 |
| F 18 | 21 42 11 | 25° 5'11 | 11 Ω 54 | 0°35 | 14°14 | 4°41 | 7°19 | 28°43 | 5°24 | 10°57 | 24° 5 | 19°13 | 20°10 | 5°42 | 0° 9 | F 18 |
| S 19 | 21 50 4 | 26° 3'03 | 23°51 | 29\$\Omega42 | 15°22 | 5°19 | 7°26 | 28°44 | 5°22 | 10°56 | 24° 6 | 19°15 | 20° 7 | 5°49 | 0° 6 | S 19 |
| | | | 5 M .42 | 28°48 | | | | 28°46 | | 10°55 | 24° 7 | 19°16 | 20° 3 | | | S 20 |
| S 20 M21 | 21 54 1 21 57 57 | 27° 0'56 27°58'50 | 17°32 | 28°48 27°54 | 16°30 17°39 | 5°58 6°37 | 7°34 7°42 | 28°48 | 5°20 5°18 | 10°53 | 24° / 24° 8 | 19°16 | 20° 3 | 5°55 6° 2 | 0° 3 29 궁 59 | M21 |
| T 22 | 22 1 54 | 28°56'46 | 29°27 | 27° 1 | 17 39 18°48 | 7°15 | 7°50 | 28°50 | 5°16 | 10°53 | 24° 8 | 19°R18 | 19°57 | 6° 9 | 29°57 | T 22 |
| W23 | 22 5 50 | 29°54'43 | 11×732 | 26°10 | 19°56 | 7°54 | 7°59 | 28°52 | 5°14 | 10°52 | 24° 9 | 19°17 | 19°54 | 6°15 | 29°54 | W23 |
| T 24 | 22 9 47 | 0 m 52'41 | 23°49 | 25°22 | 21° 5 | 8°33 | 8° 7 | 28°54 | 5°11 | 10°51 | 24°10 | 19°16 | 19°51 | 6°22 | 29°52 | T 24 |
| F 25 | 22 13 44 | 1°50'41 | 6 ප 24 | 24°38 | 22°15 | 9°12 | 8°15 | 28°56 | 5° 9 | 10°50 | 24°11 | 19°14 | 19°48 | 6°29 | 29°49 | F 25 |
| S 26 | 22 17 40 | 2°48'42 | 19°20 | 24° 0 | 23°24 | 9°51 | 8°24 | 28°58 | 5° 7 | 10°49 | 24°11 | 19°12 | 19°44 | 6°35 | 29°46 | S 26 |
| S 27 | 22 21 37 | 3°46'45 | 2≈39 | 23°28 | 24°33 | 10°30 | 8°33 | 29° 0 | 5° 5 | 10°48 | 24°12 | 19° 9 | 19°41 | 6°42 | 29°44 | S 27 |
| M28 | 22 25 33 | 4°44'49 | 16°19 | 23° 3 | 25°43 | 11° 9 | 8°42 | 29° 3 | 5° 3 | 10°47 | 24°12 | 19° 8 | 19°38 | 6°49 | 29°41 | M28 |
| T 29 | 22 29 30 | 5°42'54 | 0 ∺ 20 | 22°45 | 26°52 | 11°48 | 8°50 | 29° 5 | 5° 1 | 10°47 | 24°13 | 19° 6 | 19°35 | 6°56 | 29°39 | T 29 |
| W30 | 22 33 26 | 6°41'02 | 14°38 | 22°36 | 28° 2 | 12°27 | 9° 0 | 29° 8 | 5° 0 | 10°46 | 24°14 | 19°D 6 | 19°32 | 7° 2 | 29°36 | W30 |
| T 31 | 22 37 23 | 7 m 39'11 | 29 ∺ 8 | 22°D35 | 299512 | 13 ♀ 7 | 9M 9 | 29 IL 11 | 4≈58 | 10 る 45 | 24∏14 | 19 m) 6 | 19 m 28 | 7 ™ 9 | 29 る 34 | T 31 |

Delta T = 34.63 sec

SEPTEMBER 1662 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)f(| ¥ | В | ß | ß | ţ | o k | Day |
|------|----------|------------------|----------------|----------------|--------------|----------------|----------------|---------------------------|-------|----------------|-----------------|-----------------|----------------|----------------|----------------|------|
| F 1 | 22 41 19 | 8 Mp 37'21 | 13 Y 45 | 22 N 43 | 0Ω 22 | 13 ≏ 46 | 9 M .18 | 29 M 13 | 4°R56 | 10°R45 | 24耳15 | 19 m) 7 | 19 m 25 | 7 M 16 | 29°R32 | F 1 |
| S 2 | 22 45 16 | 9°35'34 | 28°21 | 23° 0 | 1°32 | 14°25 | 9°27 | 29°16 | 4≈54 | 10 ਰ 44 | 24°15 | 19° 7 | 19°22 | 7°22 | 29 る 29 | S 2 |
| S 3 | 22 49 13 | 10°33'49 | 12853 | 23°26 | 2°42 | 15° 5 | 9°37 | 29°19 | 4°52 | 10°43 | 24°16 | 19°8 | 19°19 | 7°29 | 29°27 | S 3 |
| M 4 | 22 53 9 | 11°32'06 | 27°15 | 24° 0 | 3°53 | 15°44 | 9°46 | 29°22 | 4°50 | 10°43 | 24°16 | 19° 9 | 19°16 | 7°36 | 29°25 | M 4 |
| T 5 | 22 57 6 | 12°30'25 | 11 Ⅱ 24 | 24°43 | 5° 3 | 16°24 | 9°56 | 29°25 | 4°49 | 10°42 | 24°16 | 19°R 9 | 19°13 | 7°42 | 29°23 | T 5 |
| W 6 | 23 1 2 | 13°28'47 | 25°20 | 25°33 | 6°14 | 17° 4 | 10° 6 | 29°29 | 4°47 | 10°42 | 24°17 | 19° 9 | 19° 9 | 7°49 | 29°21 | W 6 |
| T 7 | 23 4 59 | 14°27'10 | 9 9 0 | 26°32 | 7°24 | 17°43 | 10°16 | 29°32 | 4°45 | 10°41 | 24°17 | 19° 8 | 19° 6 | 7°56 | 29°19 | T 7 |
| F 8 | 23 8 55 | 15°25'36 | 22°25 | 27°37 | 8°35 | 18°23 | 10°26 | 29°35 | 4°44 | 10°41 | 24°18 | 19° 8 | 19° 3 | 8° 2 | 29°17 | F 8 |
| S 9 | 23 12 52 | 16°24'04 | 5 Ω 35 | 28°49 | 9°46 | 19° 3 | 10°36 | 29°39 | 4°42 | 10°40 | 24°18 | 19° 8 | 19° 0 | 8° 9 | 29°15 | S 9 |
| S 10 | 23 16 48 | 17°22'33 | 18°31 | 0 m) 8 | 10°57 | 19°43 | 10°46 | 29°42 | 4°40 | 10°40 | 24°18 | 19° 7 | 18°57 | 8°16 | 29°13 | S 10 |
| M11 | 23 20 45 | 18°21'05 | 1 m 13 | 1°31 | 12° 8 | 20°23 | 10°56 | 29°46 | 4°39 | 10°39 | 24°19 | 19° 7 | 18°54 | 8°22 | 29°11 | M11 |
| T 12 | 23 24 42 | 19°19'39 | 13°43 | 3° 0 | 13°19 | 21° 3 | 11° 6 | 29°49 | 4°37 | 10°39 | 24°19 | 19° 7 | 18°50 | 8°29 | 29° 9 | T 12 |
| W13 | 23 28 38 | 20°18'15 | 26° 1 | 4°33 | 14°31 | 21°43 | 11°17 | 29°53 | 4°36 | 10°39 | 24°19 | 19° 7 | 18°47 | 8°36 | 29° 8 | W13 |
| T 14 | 23 32 35 | 21°16'52 | 8 ₽ 9 | 6° 9 | 15°42 | 22°23 | 11°27 | 29°57 | 4°34 | 10°38 | 24°19 | 19° 7 | 18°44 | 8°43 | 29° 6 | T 14 |
| F 15 | 23 36 31 | 22°15'32 | 20° 8 | 7°49 | 16°53 | 23° 4 | 11°38 | 0 x ⁷ 1 | 4°33 | 10°38 | 24°20 | 19° 7 | 18°41 | 8°49 | 29° 5 | F 15 |
| S 16 | 23 40 28 | 23°14'13 | 2M 2 | 9°31 | 18° 5 | 23°44 | 11°49 | 0° 5 | 4°32 | 10°38 | 24°20 | 19° 6 | 18°38 | 8°56 | 29° 3 | S 16 |
| S 17 | 23 44 24 | 24°12'56 | 13°52 | 11°15 | 19°17 | 24°24 | 11°59 | 0° 9 | 4°30 | 10°38 | 24°20 | 19° 6 | 18°34 | 9° 3 | 29° 2 | S 17 |
| M18 | 23 48 21 | 25°11'41 | 25°42 | 13° 2 | 20°28 | 25° 5 | 12°10 | 0°13 | 4°29 | 10°38 | 24°20 | 19° 5 | 18°31 | 9° 9 | 29° 0 | M18 |
| T 19 | 23 52 17 | 26°10'28 | 7 . ₹36 | 14°49 | 21°40 | 25°45 | 12°21 | 0°18 | 4°28 | 10°38 | 24°20 | 19° 4 | 18°28 | 9°16 | 28°59 | T 19 |
| W20 | 23 56 14 | 27° 9'17 | 19°38 | 16°37 | 22°52 | 26°26 | 12°32 | 0°22 | 4°27 | 10°37 | 24°20 | 19° 4 | 18°25 | 9°23 | 28°58 | W20 |
| T 21 | 0 0 10 | 28° 8'07 | 1 궁 53 | 18°26 | 24° 4 | 27° 6 | 12°43 | 0°26 | 4°26 | 10°37 | 24°20 | 19°D 4 | 18°22 | 9°29 | 28°57 | T 21 |
| F 22 | 0 4 7 | 29° 6'59 | 14°24 | 20°16 | 25°16 | 27°47 | 12°55 | 0°31 | 4°25 | 10°D37 | 24°20 | 19° 4 | 18°19 | 9°36 | 28°56 | F 22 |
| S 23 | 0 8 4 | 0 º 5'53 | 27°17 | 22° 5 | 26°28 | 28°28 | 13° 6 | 0°35 | 4°24 | 10°37 | 24°20 | 19° 5 | 18°15 | 9°43 | 28°55 | S 23 |
| S 24 | 0 12 0 | 1° 4'48 | 10≈34 | 23°55 | 27°41 | 29° 9 | 13°17 | 0°40 | 4°23 | 10°37 | 24°R20 | 19° 6 | 18°12 | 9°49 | 28°54 | S 24 |
| M25 | 0 15 57 | 2° 3'46 | 24°17 | 25°44 | 28°53 | 29°49 | 13°29 | 0°45 | 4°22 | 10°37 | 24°20 | 19° 7 | 18° 9 | 9°56 | 28°53 | M25 |
| T 26 | 0 19 53 | 3° 2'45 | 8 ¥ 26 | 27°33 | 0 mg 5 | 0 M .30 | 13°40 | 0°49 | 4°21 | 10°38 | 24°20 | 19° 8 | 18° 6 | 10° 3 | 28°52 | T 26 |
| W27 | 0 23 50 | 4° 1'46 | 22°58 | 29°21 | 1°18 | 1°11 | 13°52 | 0°54 | 4°20 | 10°38 | 24°20 | 19°R 8 | 18° 3 | 10°10 | 28°51 | W27 |
| T 28 | 0 27 46 | 5° 0'49 | 7 Υ 48 | 1 ♀ 9 | 2°31 | 1°52 | 14° 3 | 0°59 | 4°19 | 10°38 | 24°20 | 19° 7 | 17°59 | 10°16 | 28°51 | T 28 |
| F 29 | 0 31 43 | 5°59'54 | 22°48 | 2°56 | 3°43 | 2°34 | 14°15 | 1° 4 | 4°18 | 10°38 | 24°20 | 19° 6 | 17°56 | 10°23 | 28°50 | F 29 |
| S 30 | 0 35 39 | 6 ≏ 59'01 | 7 8 50 | 4 º 43 | 4 Mp 56 | 3 M .15 | 14 M 27 | 1 √ 9 | 4≈18 | 10 궁 38 | 24 II 20 | 19Mp 4 | 17 Mp 53 | 10 M 30 | 28 궁 50 | S 30 |

Delta T = 34.57 sec

Greg. Calendar

OCTOBER 1662 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q. | ď | 4 | ħ |)f(| 卉 | В | u | v | Ç | Š | Day |
|------|---------|------------------|----------------|---------------|---------------|----------------|-----------------|---------------|-------|----------------|--------|----------------|-----------------|-----------------|----------------|------|
| S 1 | 0 39 36 | 7 ≙ 58'11 | 22846 | 6 ₾ 29 | 6M) 9 | 3 M .56 | 14 M .38 | 1 / 14 | 4°R17 | 10 궁 39 | 24°R20 | 19°R 1 | 17 m 50 | 10 M .36 | 28°R49 | S 1 |
| M 2 | 0 43 33 | 8°57'23 | 7 Ⅲ 27 | 8°14 | 7°22 | 4°37 | 14°50 | 1°19 | 4≈16 | 10°39 | 24∏20 | 18 M 59 | 17°47 | 10°43 | 28 궁 49 | M 2 |
| T 3 | 0 47 29 | 9°56'37 | 21°48 | 9°59 | 8°35 | 5°19 | 15° 2 | 1°24 | 4°16 | 10°39 | 24°20 | 18°57 | 17°44 | 10°50 | 28°49 | T 3 |
| W 4 | 0 51 26 | 10°55'54 | 59547 | 11°43 | 9°48 | 6° 0 | 15°14 | 1°30 | 4°15 | 10°40 | 24°19 | 18°D56 | 17°40 | 10°56 | 28°48 | W 4 |
| T 5 | 0 55 22 | 11°55'13 | 19°22 | 13°26 | 11° 1 | 6°42 | 15°26 | 1°35 | 4°15 | 10°40 | 24°19 | 18°57 | 17°37 | 11° 3 | 28°48 | T 5 |
| F 6 | 0 59 19 | 12°54'34 | 2Ω 36 | 15° 8 | 12°14 | 7°23 | 15°38 | 1°40 | 4°14 | 10°41 | 24°19 | 18°58 | 17°34 | 11°10 | 28°48 | F 6 |
| S 7 | 1 3 15 | 13°53'58 | 15°31 | 16°49 | 13°27 | 8° 5 | 15°51 | 1°46 | 4°14 | 10°41 | 24°19 | 18°59 | 17°31 | 11°16 | 28°D48 | S 7 |
| S 8 | 1 7 12 | 14°53'24 | 28° 9 | 18°30 | 14°41 | 8°46 | 16° 3 | 1°51 | 4°14 | 10°42 | 24°18 | 19° 1 | 17°28 | 11°23 | 28°48 | S 8 |
| M 9 | 111 8 | 15°52'52 | 10 m 33 | 20°10 | 15°54 | 9°28 | 16°15 | 1°57 | 4°14 | 10°42 | 24°18 | 19° 2 | 17°25 | 11°30 | 28°48 | M 9 |
| T 10 | 1 15 5 | 16°52'22 | 22°47 | 21°50 | 17° 8 | 10°10 | 16°27 | 2° 3 | 4°13 | 10°43 | 24°18 | 19°R 2 | 17°21 | 11°37 | 28°48 | T 10 |
| W11 | 1 19 2 | 17°51'54 | 4 ₽ 52 | 23°28 | 18°21 | 10°52 | 16°40 | 2° 8 | 4°13 | 10°43 | 24°17 | 19° 1 | 17°18 | 11°43 | 28°49 | W11 |
| T 12 | 1 22 58 | 18°51'29 | 16°50 | 25° 6 | 19°35 | 11°34 | 16°52 | 2°14 | 4°13 | 10°44 | 24°17 | 18°58 | 17°15 | 11°50 | 28°49 | T 12 |
| F 13 | 1 26 55 | 19°51'06 | 28°44 | 26°44 | 20°48 | 12°16 | 17° 5 | 2°20 | 4°13 | 10°45 | 24°16 | 18°54 | 17°12 | 11°57 | 28°49 | F 13 |
| S 14 | 1 30 51 | 20°50'44 | 10 M 35 | 28°21 | 22° 2 | 12°58 | 17°17 | 2°26 | 4°D13 | 10°45 | 24°16 | 18°49 | 17° 9 | 12° 3 | 28°50 | S 14 |
| S 15 | 1 34 48 | 21°50'25 | 22°25 | 29°57 | 23°16 | 13°40 | 17°30 | 2°32 | 4°13 | 10°46 | 24°16 | 18°42 | 17° 5 | 12°10 | 28°50 | S 15 |
| M16 | 1 38 44 | 22°50'07 | 4 ₹ 16 | 1ML32 | 24°30 | 14°22 | 17°43 | 2°37 | 4°13 | 10°47 | 24°15 | 18°36 | 17° 2 | 12°17 | 28°51 | M16 |
| T 17 | 1 42 41 | 23°49'52 | 16°11 | 3° 7 | 25°43 | 15° 4 | 17°55 | 2°43 | 4°13 | 10°48 | 24°15 | 18°30 | 16°59 | 12°23 | 28°52 | T 17 |
| W18 | 1 46 37 | 24°49'38 | 28°13 | 4°42 | 26°57 | 15°47 | 18° 8 | 2°50 | 4°13 | 10°48 | 24°14 | 18°26 | 16°56 | 12°30 | 28°53 | W18 |
| T 19 | 1 50 34 | 25°49'26 | 10 る 25 | 6°15 | 28°11 | 16°29 | 18°21 | 2°56 | 4°14 | 10°49 | 24°14 | 18°23 | 16°53 | 12°37 | 28°53 | T 19 |
| F 20 | 1 54 31 | 26°49'16 | 22°52 | 7°49 | 29°25 | 17°11 | 18°34 | 3° 2 | 4°14 | 10°50 | 24°13 | 18°D22 | 16°50 | 12°44 | 28°54 | F 20 |
| S 21 | 1 58 27 | 27°49'07 | 5≈38 | 9°21 | ე ჲ 39 | 17°54 | 18°46 | 3° 8 | 4°14 | 10°51 | 24°12 | 18°22 | 16°46 | 12°50 | 28°55 | S 21 |
| S 22 | 2 2 24 | 28°49'00 | 18°47 | 10°53 | 1°54 | 18°37 | 18°59 | 3°14 | 4°15 | 10°52 | 24°12 | 18°23 | 16°43 | 12°57 | 28°56 | S 22 |
| M23 | 2 6 20 | 29°48'54 | 2) 22 | 12°25 | 3°8 | 19°19 | 19°12 | 3°20 | 4°15 | 10°53 | 24°11 | 18°24 | 16°40 | 13° 4 | 28°57 | M23 |
| T 24 | 2 10 17 | 0 M 48'51 | 16°25 | 13°56 | 4°22 | 20° 2 | 19°25 | 3°27 | 4°16 | 10°54 | 24°11 | 18°R25 | 16°37 | 13°10 | 28°59 | T 24 |
| W25 | 2 14 13 | 1°48'49 | 0 Υ 55 | 15°27 | 5°36 | 20°45 | 19°38 | 3°33 | 4°16 | 10°55 | 24°10 | 18°25 | 16°34 | 13°17 | 29° 0 | W25 |
| T 26 | 2 18 10 | 2°48'48 | 15°50 | 16°57 | 6°51 | 21°27 | 19°51 | 3°39 | 4°17 | 10°56 | 24° 9 | 18°22 | 16°30 | 13°24 | 29° 1 | T 26 |
| F 27 | 2 22 6 | 3°48'50 | 18 1 | 18°27 | 8° 5 | 22°10 | 20° 4 | 3°46 | 4°17 | 10°57 | 24° 9 | 18°17 | 16°27 | 13°30 | 29° 3 | F 27 |
| S 28 | 2 26 3 | 4°48'53 | 16°20 | 19°56 | 9°19 | 22°53 | 20°17 | 3°52 | 4°18 | 10°59 | 24° 8 | 18°11 | 16°24 | 13°37 | 29° 4 | S 28 |
| S 29 | 2 29 59 | 5°48'59 | 1 Ⅲ 35 | 21°24 | 10°34 | 23°36 | 20°30 | 3°59 | 4°19 | 11° 0 | 24° 7 | 18° 4 | 16°21 | 13°44 | 29° 6 | S 29 |
| M30 | 2 33 56 | 6°49'06 | 16°35 | 22°52 | 11°48 | 24°19 | 20°43 | 4° 5 | 4°20 | 11° 1 | 24° 6 | 17°56 | 16°18 | 13°51 | 29° 7 | M30 |
| T 31 | 2 37 53 | 7 M 49'15 | 19513 | 24ML20 | 13 ♀ 3 | 25M 2 | 20 M 57 | 4 ₹ 12 | 4≈20 | 11る 2 | 24耳 6 | 17 m 50 | 16 M)15 | 13 M .57 | 29궁 9 | T 31 |

Delta T = 34.52 sec

NOVEMBER 1662 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | P | ♂ | 4 | ħ |)Å(| ¥ | Р | ß | ß | ţ | , k | Day |
|--------------|--------------------|--------------------|------------------------|-----------------|----------------|----------------|----------------|----------------|--------------|----------------|-----------------|-----------------|-----------------|-----------------|----------------|--------------|
| W 1 | 2 41 49 | 8 M 49'27 | 159523 | 25 M 47 | 14 ₽ 17 | 25 M 45 | 21 M 10 | 4 ₹ 19 | 4≈21 | 11る 3 | 24°R 5 | 17°R45 | 16 M)11 | 14 M 4 | 29 ට 11 | W 1 |
| T 2 | 2 45 46 | 9°49'41 | 29° 5 | 27°13 | 15°32 | 26°28 | 21°23 | 4°25 | 4°22 | 11° 5 | 24 I I 4 | 17 m)43 | 16° 8 | 14°11 | 29°12 | T 2 |
| F 3 | 2 49 42 | 10°49'56 | 12 Ω 19 | 28°39 | 16°46 | 27°12 | 21°36 | 4°32 | 4°23 | 11° 6 | 24° 3 | 17°D42 | 16° 5 | 14°17 | 29°14 | F 3 |
| S 4 | 2 53 39 | 11°50'14 | 25° 9 | 0 √ 4 | 18° 1 | 27°55 | 21°49 | 4°39 | 4°24 | 11° 7 | 24° 3 | 17°43 | 16° 2 | 14°24 | 29°16 | S 4 |
| S 5 | 2 57 35 | 12°50'34 | 7 m 38 | 1°29 | 19°16 | 28°38 | 22° 3 | 4°45 | 4°25 | 11° 9 | 24° 2 | 17°44 | 15°59 | 14°31 | 29°18 | S 5 |
| M 6 | 3 1 32 | 13°50'55 | 19°53 | 2°52 | 20°31 | 29°22 | 22°16 | 4°52 | 4°27 | 11°10 | 24° 1 | 17°R44 | 15°56 | 14°37 | 29°20 | M 6 |
| T 7 | 3 5 28 | 14°51'19 | 1 ≏ 56 | 4°15 | 21°45 | 0 才 5 | 22°29 | 4°59 | 4°28 | 11°12 | 24° 0 | 17°43 | 15°52 | 14°44 | 29°22 | T 7 |
| W 8 | 3 9 25 | 15°51'44 | 13°52 | 5°37 | 23° 0 | 0°49 | 22°42 | 5° 6 | 4°29 | 11°13 | 23°59 | 17°40 | 15°49 | 14°51 | 29°25 | W 8 |
| T 9 | 3 13 22 | 16°52'11 | 25°44 | 6°58 | 24°15 | 1°33 | 22°56 | 5°12 | 4°30 | 11°15 | 23°58 | 17°33 | 15°46 | 14°58 | 29°27 | T 9 |
| F 10 | 3 17 18 | 17°52'40 | 7 M .34 | 8°17 | 25°30 | 2°16 | 23° 9 | 5°19 | 4°32 | 11°16 | 23°57 | 17°24 | 15°43 | 15° 4 | 29°29 | F 10 |
| S 11 | 3 21 15 | 18°53'11 | 19°25 | 9°35 | 26°45 | 3° 0 | 23°22 | 5°26 | 4°33 | 11°18 | 23°56 | 17°13 | 15°40 | 15°11 | 29°32 | S 11 |
| S 12 | 3 25 11 | 19°53'43 | 1 √ 17 | 10°52 | 28° 0 | 3°44 | 23°36 | 5°33 | 4°35 | 11°19 | 23°55 | 17° 1 | 15°36 | 15°18 | 29°34 | S 12 |
| M13 | 3 29 8 | 20°54'17 | 13°13 | 12° 8 | 29°15 | 4°28 | 23°49 | 5°40 | 4°36 | 11°21 | 23°54 | 16°48 | 15°33 | 15°24 | 29°37 | M13 |
| T 14 | 3 33 4 | 21°54'52 | 25°13 | 13°21 | 0 M .30 | 5°12 | 24° 3 | 5°47 | 4°38 | 11°22 | 23°53 | 16°36 | 15°30 | 15°31 | 29°39 | T 14 |
| W15 | 3 37 1 | 22°55'29 | 7 る 20 | 14°32 | 1°45 | 5°56 | 24°16 | 5°54 | 4°39 | 11°24 | 23°52 | 16°26 | 15°27 | 15°38 | 29°42 | W15 |
| T 16 | 3 40 57 | 23°56'07 | 19°35 | 15°41 | 3° 0 | 6°40 | 24°29 | 6° 1 | 4°41 | 11°26 | 23°51 | 16°18 | 15°24 | 15°44 | 29°45 | T 16 |
| F 17 | 3 44 54 | 24°56'46 | 2 ≈ 3 | 16°47 | 4°15 | 7°24 8° 8 | 24°43 | 6° 8 | 4°42 | 11°27 | 23°50 | 16°13 | 15°21 15°17 | 15°51 | 29°47 29°50 | F 17 S 18 |
| S 18 | 3 48 51 | 25°57'26 | 14°45 | 17°50 | 5°30 | | 24°56 | 6°15 | 4°44 | 11°29 | 23°49 | 16°10 | | 15°58 | | |
| S 19 | 3 52 47 | 26°58'07 | 27°47 | 18°50 | 6°45 | 8°52 | 25° 9 | 6°22 | 4°46 | 11°31 | 23°48 | 16°D10 | 15°14 | 16° 5 | 29°53 | S 19 |
| M20 | 3 56 44 | 27°58'50 | 11 米 11 | 19°46 | 8° 0 | 9°36 | 25°23 | 6°29 | 4°48 | 11°33 | 23°47 | 16°R10 | 15°11 | 16°11 | 29°56 | M20 |
| T 21 | 4 0 40 | 28°59'33 | 25° 1 | 20°37 | 9°15 | 10°21 | 25°36 | 6°36 | 4°50 | 11°34 | 23°46 | 16°10 | 15° 8 | 16°18 | 29°59 | T 21 |
| W22 | 4 4 37 | 0.7 0'18 | 9 Υ 18 | 21°23 | 10°30 | 11° 5 | 25°50 | 6°43 | 4°52 | 11°36 | 23°45 | 16° 8 | 15° 5 | 16°25 | 0 ≈ 2 | W22 |
| T 23 F 24 | 4 8 33 | 1° 1'03 | 24° 0 | 22° 3 22°36 | 11°46 13° 1 | 11°49 | 26° 3 | 6°50 6°57 | 4°53 4°55 | 11°38 | 23°44 | 16° 4 | 15° 2 | 16°31 16°38 | 0° 5 0° 8 | T 23 F 24 |
| S 25 | 4 12 30 4 16 26 | 2° 1'50 3° 2'37 | 9 8 4 24°20 | 22°36 23° 3 | 13° 1 | 12°34 13°18 | 26°16 26°30 | 7° 4 | 4°57 | 11°40 11°42 | 23°43 23°42 | 15°57 15°47 | 14°58 14°55 | 16°38 | 0° 8 | S 25 |
| | | | | | _ | | | | | | | | | | - | |
| S 26 | 4 20 23 | 4° 3'26 | 9∏38 | 23°21 | 15°31 | 14° 3 | 26°43 | 7°11 | 5° 0 | 11°44 | 23°41 | 15°36 | 14°52 | 16°52 | 0°15 | S 26 |
| M27 | 4 24 20 | 5° 4'16 | 24°47 | 23°R30 | 16°46 | 14°47 | 26°56 | 7°18 | 5° 2 | 11°45 | 23°40 | 15°24 | 14°49 | 16°58 | 0°18 | M27 |
| T 28 | 4 28 16 | 6° 5'08 | 9936 | 23°29 | 18° 2 | 15°32 | 27°10 | 7°25 | 5° 4 | 11°47 | 23°39 | 15°14 | 14°46 | 17° 5 | 0°21 | T 28 |
| W29 | 4 32 13 | 7° 6'01 | 23°58 7 Ω 49 | 23°18 | 19°17 | 16°17 | 27°23 | 7°32 | 5° 6 | 11°49 | 23°37 | 15° 6 | 14°42 | 17°12 | 0°25 | W29 |
| T 30 | 4 36 9 | 8 ∡ 6'55 | /8 . 49 | 22 × 756 | 20M32 | 17 ×7 2 | 27 M 36 | 7 ,₹ 39 | 5≈ 8 | 11 る 51 | 23 Ⅱ 36 | 15 m) 0 | 14 m 39 | 17 M .18 | 0≈28 | T 30 |

Delta T = 34.46 sec

Greg. Calendar

| DECEMBER 1662 GC | 00:00 UT |
|------------------|----------|
| DECEMBER 1002 OC | 00:00 01 |

| Day | Sid.t | \odot | D | ğ | φ | ♂ | 4 | ħ |)Å(| ¥ | В | v | Ω | Ç | ç | Day |
|------|---------|-------------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|------|----------------|--------|----------------|-----------------|----------------|------|------|
| F 1 | 4 40 6 | 9 ∡¹ 7'50 | 21 Ω 11 | 22°R23 | 21 M 47 | 17 ∡ 746 | 27 M 49 | 7 √ 147 | 5≈11 | 11 る 53 | 23°R35 | 14°R58 | 14 m 36 | 17 M 25 | 0≈32 | F 1 |
| S 2 | 4 44 2 | 10° 8'46 | 4MD 5 | 21 ₹ 38 | 23° 3 | 18°31 | 28° 3 | 7°54 | 5°13 | 11°55 | 23耳34 | 14 m 57 | 14°33 | 17°32 | 0°35 | S 2 |
| S 3 | 4 47 59 | 11° 9'44 | 16°35 | 20°43 | 24°18 | 19°16 | 28°16 | 8° 1 | 5°15 | 11°57 | 23°33 | 14°57 | 14°30 | 17°39 | 0°39 | S 3 |
| M 4 | 4 51 55 | 12°10'43 | 28°48 | 19°38 | 25°33 | 20° 1 | 28°29 | 8° 8 | 5°18 | 11°59 | 23°32 | 14°56 | 14°27 | 17°45 | 0°43 | M 4 |
| T 5 | 4 55 52 | 13°11'43 | 10 <u>₽</u> 48 | 18°25 | 26°49 | 20°46 | 28°42 | 8°15 | 5°20 | 12° 1 | 23°31 | 14°54 | 14°23 | 17°52 | 0°46 | T 5 |
| W 6 | 4 59 49 | 14°12'44 | 22°41 | 17° 6 | 28° 4 | 21°31 | 28°56 | 8°22 | 5°23 | 12° 3 | 23°29 | 14°50 | 14°20 | 17°59 | 0°50 | W 6 |
| T 7 | 5 3 45 | 15°13'46 | 4 M .30 | 15°44 | 29°19 | 22°16 | 29° 9 | 8°29 | 5°25 | 12° 5 | 23°28 | 14°42 | 14°17 | 18° 5 | 0°54 | T 7 |
| F 8 | 5 7 42 | 16°14'50 | 16°20 | 14°21 | 0 ∡ 35 | 23° 2 | 29°22 | 8°36 | 5°28 | 12° 7 | 23°27 | 14°32 | 14°14 | 18°12 | 0°58 | F 8 |
| S 9 | 5 11 38 | 17°15'54 | 28°12 | 13° 0 | 1°50 | 23°47 | 29°35 | 8°43 | 5°30 | 12°10 | 23°26 | 14°19 | 14°11 | 18°19 | 1° 2 | S 9 |
| S 10 | 5 15 35 | 18°16'59 | 10 × 9 | 11°44 | 3° 6 | 24°32 | 29°48 | 8°50 | 5°33 | 12°12 | 23°25 | 14° 4 | 14° 8 | 18°25 | 1° 5 | S 10 |
| M11 | 5 19 31 | 19°18'04 | 22°13 | 10°36 | 4°21 | 25°18 | 0 × 1 | 8°57 | 5°35 | 12°14 | 23°23 | 13°49 | 14° 4 | 18°32 | 1° 9 | M11 |
| T 12 | 5 23 28 | 20°19'11 | 4 궁 24 | 9°35 | 5°36 | 26° 3 | 0°14 | 9° 4 | 5°38 | 12°16 | 23°22 | 13°35 | 14° 1 | 18°39 | 1°13 | T 12 |
| W13 | 5 27 24 | 21°20'18 | 16°42 | 8°45 | 6°52 | 26°48 | 0°27 | 9°11 | 5°41 | 12°18 | 23°21 | 13°22 | 13°58 | 18°46 | 1°17 | W13 |
| T 14 | 5 31 21 | 22°21'25 | 29° 9 | 8° 6 | 8° 7 | 27°34 | 0°40 | 9°18 | 5°44 | 12°20 | 23°20 | 13°13 | 13°55 | 18°52 | 1°22 | T 14 |
| F 15 | 5 35 18 | 23°22'33 | 11 ≈ 46 | 7°38 | 9°23 | 28°19 | 0°53 | 9°25 | 5°46 | 12°22 | 23°19 | 13° 6 | 13°52 | 18°59 | 1°26 | F 15 |
| S 16 | 5 39 14 | 24°23'41 | 24°36 | 7°20 | 10°38 | 29° 5 | 1° 6 | 9°32 | 5°49 | 12°25 | 23°18 | 13° 3 | 13°48 | 19° 6 | 1°30 | S 16 |
| S 17 | 5 43 11 | 25°24'49 | 7 ∺ 39 | 7°D13 | 11°53 | 29°51 | 1°19 | 9°39 | 5°52 | 12°27 | 23°16 | 13°D 1 | 13°45 | 19°12 | 1°34 | S 17 |
| M18 | 5 47 7 | 26°25'58 | 21° 0 | 7°16 | 13° 9 | 0 궁 36 | 1°31 | 9°46 | 5°55 | 12°29 | 23°15 | 13°R 1 | 13°42 | 19°19 | 1°38 | M18 |
| T 19 | 5 51 4 | 27°27'06 | 4 Υ 41 | 7°28 | 14°24 | 1°22 | 1°44 | 9°53 | 5°58 | 12°31 | 23°14 | 13° 1 | 13°39 | 19°26 | 1°42 | T 19 |
| W20 | 5 55 0 | 28°28'15 | 18°43 | 7°48 | 15°40 | 2° 8 | 1°57 | 10° 0 | 6° 1 | 12°33 | 23°13 | 13° 0 | 13°36 | 19°33 | 1°47 | W20 |
| T 21 | 5 58 57 | 2 <u>9°</u> 29'23 | 3 8 6 | 8°16 | 16°55 | 2°53 | 2°10 | 10° 6 | 6° 4 | 12°36 | 23°12 | 12°56 | 13°33 | 19°39 | 1°51 | T 21 |
| F 22 | 6 2 53 | 0 궁 30'32 | 17°49 | 8°51 | 18°11 | 3°39 | 2°22 | 10°13 | 6° 7 | 12°38 | 23°10 | 12°49 | 13°29 | 19°46 | 1°55 | F 22 |
| S 23 | 6 6 50 | 1°31'40 | 2 Ⅱ 45 | 9°32 | 19°26 | 4°25 | 2°35 | 10°20 | 6°10 | 12°40 | 23° 9 | 12°41 | 13°26 | 19°53 | 2° 0 | S 23 |
| S 24 | 6 10 47 | 2°32'49 | 17°46 | 10°18 | 20°41 | 5°11 | 2°47 | 10°27 | 6°13 | 12°42 | 23° 8 | 12°30 | 13°23 | 19°59 | 2° 4 | S 24 |
| M25 | 6 14 43 | 3°33'58 | 29544 | 11° 9 | 21°57 | 5°57 | 3° 0 | 10°33 | 6°16 | 12°45 | 23° 7 | 12°19 | 13°20 | 20° 6 | 2° 9 | M25 |
| T 26 | 6 18 40 | 4°35'07 | 17°27 | 12° 4 | 23°12 | 6°43 | 3°12 | 10°40 | 6°19 | 12°47 | 23° 6 | 12° 9 | 13°17 | 20°13 | 2°13 | T 26 |
| W27 | 6 22 36 | 5°36'16 | 1 Ω 50 | 13° 3 | 24°28 | 7°29 | 3°24 | 10°47 | 6°22 | 12°49 | 23° 5 | 12° 1 | 13°14 | 20°20 | 2°18 | W27 |
| T 28 | 6 26 33 | 6°37'25 | 15°46 | 14° 5 | 25°43 | 8°15 | 3°37 | 10°53 | 6°25 | 12°51 | 23° 3 | 11°55 | 13°10 | 20°26 | 2°22 | T 28 |
| F 29 | 6 30 29 | 7°38'35 | 29°13 | 15°10 | 26°59 | 9° 1 | 3°49 | 11° 0 | 6°28 | 12°54 | 23° 2 | 11°52 | 13° 7 | 20°33 | 2°27 | F 29 |
| S 30 | 6 34 26 | 8°39'44 | 12 m 13 | 16°18 | 28°14 | 9°47 | 4° 1 | 11° 7 | 6°31 | 12°56 | 23° 1 | 11°D52 | 13° 4 | 20°40 | 2°31 | S 30 |
| S 31 | 6 38 23 | 9 ප් 40'54 | 24 m 50 | 17 × 728 | 29 × 129 | 10 ට 33 | 4 ₹ 13 | 11 × 13 | 6≈35 | 12 る 58 | 23Ⅱ 0 | 11 m 52 | 13 m) 1 | 20 M 46 | 2≈36 | S 31 |

Delta T = 34.41 sec

JANUARY 1663 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | · | ď | 4 | ħ |)∤(| ¥ | Р | ₽. | v | Ç | o K | Day |
|------|---------|----------|----------------|-----------------|---------------|----------------|---------------|-----------------|------|----------------|-----------------|----------------|------------------|----------------|--------|------|
| M 1 | 6 42 19 | 10342'04 | 7 <u>₽</u> 7 | 18 ×7 41 | 0 궁 45 | 11 る 20 | 4 ₹ 25 | 11 × 720 | 6≈38 | 13 る 0 | 22°R59 | 11°R53 | 12 m 58 | 20 M 53 | 2≈41 | M 1 |
| T 2 | 6 46 16 | 11°43'14 | 19° 9 | 19°55 | 2° 0 | 12° 6 | 4°37 | 11°26 | 6°41 | 13° 3 | 22 II 58 | 11 m 52 | 12°54 | 21° 0 | 2°45 | T 2 |
| W 3 | 6 50 12 | 12°44'24 | 1 m 3 | 21°11 | 3°16 | 12°52 | 4°49 | 11°32 | 6°44 | 13° 5 | 22°57 | 11°50 | 12°51 | 21° 7 | 2°50 | W 3 |
| T 4 | 6 54 9 | 13°45'34 | 12°53 | 22°29 | 4°31 | 13°39 | 5° 1 | 11°39 | 6°48 | 13° 7 | 22°55 | 11°46 | 12°48 | 21°13 | 2°54 | T 4 |
| F 5 | 6 58 5 | 14°46'45 | 24°44 | 23°47 | 5°47 | 14°25 | 5°13 | 11°45 | 6°51 | 13°10 | 22°54 | 11°39 | 12°45 | 21°20 | 2°59 | F 5 |
| S 6 | 7 2 2 | 15°47'55 | 6 ₹ 39 | 25° 8 | 7° 2 | 15°11 | 5°25 | 11°51 | 6°54 | 13°12 | 22°53 | 11°30 | 12°42 | 21°27 | 3° 4 | S 6 |
| S 7 | 7 5 58 | 16°49'05 | 18°42 | 26°29 | 8°18 | 15°58 | 5°37 | 11°58 | 6°58 | 13°14 | 22°52 | 11°20 | 12°39 | 21°33 | 3° 9 | S 7 |
| M 8 | 7 9 55 | 17°50'14 | 0 궁 54 | 27°51 | 9°33 | 16°44 | 5°48 | 12° 4 | 7° 1 | 13°16 | 22°51 | 11° 9 | 12°35 | 21°40 | 3°13 | M 8 |
| T 9 | 7 13 52 | 18°51'24 | 13°17 | 29°14 | 10°48 | 17°31 | 6° 0 | 12°10 | 7° 4 | 13°19 | 22°50 | 10°58 | 12°32 | 21°47 | 3°18 | T 9 |
| W10 | 7 17 48 | 19°52'33 | 25°51 | 0 궁 39 | 12° 4 | 18°17 | 6°11 | 12°16 | 7° 8 | 13°21 | 22°49 | 10°50 | 12°29 | 21°54 | 3°23 | W10 |
| T 11 | 7 21 45 | 20°53'42 | 8 ≈ 36 | 2° 4 | 13°19 | 19° 4 | 6°23 | 12°22 | 7°11 | 13°23 | 22°48 | 10°43 | 12°26 | 22° 0 | 3°28 | T 11 |
| F 12 | 7 25 41 | 21°54'49 | 21°33 | 3°30 | 14°35 | 19°51 | 6°34 | 12°28 | 7°14 | 13°25 | 22°47 | 10°38 | 12°23 | 22° 7 | 3°33 | F 12 |
| S 13 | 7 29 38 | 22°55'57 | 4) (40 | 4°56 | 15°50 | 20°37 | 6°45 | 12°34 | 7°18 | 13°28 | 22°46 | 10°D37 | 12°20 | 22°14 | 3°37 | S 13 |
| S 14 | 7 33 34 | 23°57'03 | 17°59 | 6°24 | 17° 6 | 21°24 | 6°56 | 12°40 | 7°21 | 13°30 | 22°45 | 10°37 | 12°16 | 22°20 | 3°42 | S 14 |
| M15 | 7 37 31 | 24°58'08 | 1 Y 31 | 7°52 | 18°21 | 22°11 | 7° 7 | 12°46 | 7°25 | 13°32 | 22°44 | 10°38 | 12°13 | 22°27 | 3°47 | M15 |
| T 16 | 7 41 27 | 25°59'13 | 15°15 | 9°20 | 19°36 | 22°57 | 7°18 | 12°52 | 7°28 | 13°34 | 22°43 | 10°39 | 12°10 | 22°34 | 3°52 | T 16 |
| W17 | 7 45 24 | 27° 0'16 | 29°12 | 10°50 | 20°52 | 23°44 | 7°29 | 12°58 | 7°32 | 13°37 | 22°42 | 10°R39 | 12° 7 | 22°41 | 3°57 | W17 |
| T 18 | 7 49 21 | 28° 1'19 | 13822 | 12°20 | 22° 7 | 24°31 | 7°40 | 13° 3 | 7°35 | 13°39 | 22°41 | 10°38 | 12° 4 | 22°47 | 4° 2 | T 18 |
| F 19 | 7 53 17 | 29° 2'20 | 27°44 | 13°51 | 23°22 | 25°18 | 7°51 | 13° 9 | 7°39 | 13°41 | 22°40 | 10°35 | 12° 0 | 22°54 | 4° 6 | F 19 |
| S 20 | 7 57 14 | 0≈ 3'20 | 12 Ⅱ 14 | 15°22 | 24°38 | 26° 4 | 8° 1 | 13°15 | 7°42 | 13°43 | 22°39 | 10°31 | 11°57 | 23° 1 | 4°11 | S 20 |
| S 21 | 8 1 10 | 1° 4'20 | 26°47 | 16°54 | 25°53 | 26°51 | 8°12 | 13°20 | 7°45 | 13°46 | 22°38 | 10°25 | 11°54 | 23° 7 | 4°16 | S 21 |
| M22 | 8 5 7 | 2° 5'18 | 119917 | 18°27 | 27° 9 | 27°38 | 8°22 | 13°26 | 7°49 | 13°48 | 22°37 | 10°18 | 11°51 | 23°14 | 4°21 | M22 |
| T 23 | 8 9 3 | 3° 6'15 | 25°39 | 20° 0 | 28°24 | 28°25 | 8°33 | 13°31 | 7°52 | 13°50 | 22°37 | 10°12 | 11°48 | 23°21 | 4°26 | T 23 |
| W24 | 8 13 0 | 4° 7'11 | 9 Ω 45 | 21°34 | 29°39 | 29°12 | 8°43 | 13°36 | 7°56 | 13°52 | 22°36 | 10° 8 | 11°45 | 23°28 | 4°31 | W24 |
| T 25 | 8 16 56 | 5° 8'06 | 23°31 | 23° 9 | 0≈55 | 29°59 | 8°53 | 13°42 | 7°59 | 13°54 | 22°35 | 10° 5 | 11°41 | 23°34 | 4°36 | T 25 |
| F 26 | 8 20 53 | 6° 9'01 | 6 M 54 | 24°44 | 2°10 | 0≈46 | 9° 3 | 13°47 | 8° 3 | 13°56 | 22°34 | 10°D 4 | 11°38 | 23°41 | 4°40 | F 26 |
| S 27 | 8 24 50 | 7° 9'54 | 19°55 | 26°20 | 3°25 | 1°33 | 9°13 | 13°52 | 8° 6 | 13°59 | 22°33 | 10° 4 | 11°35 | 23°48 | 4°45 | S 27 |
| S 28 | 8 28 46 | 8°10'46 | 2 ॒ 35 | 27°57 | 4°40 | 2°20 | 9°23 | 13°57 | 8°10 | 14° 1 | 22°32 | 10° 5 | 11°32 | 23°54 | 4°50 | S 28 |
| M29 | 8 32 43 | 9°11'38 | 14°56 | 29°34 | 5°56 | 3° 7 | 9°32 | 14° 2 | 8°13 | 14° 3 | 22°32 | 10° 7 | 11°29 | 24° 1 | 4°55 | M29 |
| T 30 | 8 36 39 | 10°12'28 | 27° 2 | 1≈12 | 7°11 | 3°54 | 9°42 | 14° 7 | 8°17 | 1 <u>4</u> ° 5 | 22°31 | 10° 9 | 11°25 | 24° 8 | 5° 0 | T 30 |
| W31 | 8 40 36 | 11≈13′18 | 8 M .59 | 2≈51 | 8≈26 | 4≈41 | 9 ₹ 52 | 14 × 12 | 8≈20 | 14 궁 7 | 22 ∏ 30 | 10°R10 | 11 m) 22 | 24 M 15 | 5≈ 5 | W31 |

Delta T = 34.35 sec

Greg. Calendar

FEBRUARY 1663 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ | ¥ | ¥ | Р | R | Ω | Ç | Š | Day |
|------|----------|-------------------|-----------------|----------------|----------------|-------|----------------|----------------|---------------|----------------|-----------------|-----------------|----------------|----------------|------|------|
| T 1 | 8 44 32 | 12≈14'07 | 20 M 51 | 4≈31 | 9≈42 | 5≈28 | 10🗷 1 | 14 × 17 | 8≈24 | 14궁 9 | 22°R29 | 10°R 9 | 11 m 19 | 24M21 | 5≈10 | T 1 |
| F 2 | 8 48 29 | 13°14'55 | 2 √ 43 | 6°11 | 10°57 | 6°15 | 10°10 | 14°21 | 8°27 | 14°11 | 22 II 29 | 10 m) 8 | 11°16 | 24°28 | 5°14 | F 2 |
| S 3 | 8 52 25 | 14°15'42 | 14°40 | 7°52 | 12°12 | 7° 2 | 10°19 | 14°26 | 8°31 | 14°13 | 22°28 | 10° 5 | 11°13 | 24°35 | 5°19 | S 3 |
| S 4 | 8 56 22 | 15°16'28 | 26°46 | 9°34 | 13°27 | 7°49 | 10°28 | 14°31 | 8°34 | 14°15 | 22°27 | 10° 1 | 11°10 | 24°41 | 5°24 | S 4 |
| M 5 | 9 0 19 | 16°17'12 | 9 る 4 | 11°17 | 14°43 | 8°37 | 10°37 | 14°35 | 8°38 | 14°17 | 22°27 | 9°57 | 11° 6 | 24°48 | 5°29 | M 5 |
| T 6 | 9 4 15 | 17°17'56 | 21°37 | 13° 1 | 15°58 | 9°24 | 10°46 | 14°40 | 8°41 | 14°19 | 22°26 | 9°53 | 11° 3 | 24°55 | 5°34 | T 6 |
| W 7 | 9 8 12 | 18°18'38 | 4≈25 | 14°45 | 17°13 | 10°11 | 10°55 | 14°44 | 8°45 | 14°21 | 22°25 | 9°50 | 11° 0 | 25° 2 | 5°38 | W 7 |
| T 8 | 9 12 8 | 19°19'19 | 17°29 | 16°30 | 18°28 | 10°58 | 11° 3 | 14°48 | 8°48 | 14°23 | 22°25 | 9°47 | 10°57 | 25° 8 | 5°43 | T 8 |
| F 9 | 9 16 5 | 20°19'58 | 0) €48 | 18°17 | 19°43 | 11°45 | 11°12 | 14°53 | 8°52 | 14°25 | 22°24 | 9°46 | 10°54 | 25°15 | 5°48 | F 9 |
| S 10 | 9 20 1 | 21°20'36 | 14°21 | 20° 4 | 20°59 | 12°32 | 11°20 | 14°57 | 8°55 | 14°27 | 22°24 | 9°D46 | 10°51 | 25°22 | 5°53 | S 10 |
| S 11 | 9 23 58 | 22°21'12 | 28° 6 | 21°51 | 22°14 | 13°20 | 11°28 | 15° 1 | 8°59 | 14°29 | 22°23 | 9°47 | 10°47 | 25°28 | 5°57 | S 11 |
| M12 | 9 27 54 | 23°21'47 | 12 ° 1 | 23°40 | 23°29 | 14° 7 | 11°36 | 15° 5 | 9° 2 | 14°31 | 22°23 | 9°48 | 10°44 | 25°35 | 6° 2 | M12 |
| T 13 | 9 31 51 | 24°22'20 | 26° 3 | 25°29 | 24°44 | 14°54 | 11°44 | 15° 9 | 9° 5 | 14°33 | 22°22 | 9°49 | 10°41 | 25°42 | 6° 7 | T 13 |
| W14 | 9 35 48 | 25°22'51 | 10810 | 27°20 | 25°59 | 15°41 | 11°52 | 15°12 | 9° 9 | 14°34 | 22°22 | 9°50 | 10°38 | 25°49 | 6°11 | W14 |
| T 15 | 9 39 44 | 26°23'20 | 24°21 | 29°11 | 27°14 | 16°29 | 12° 0 | 15°16 | 9°12 | 14°36 | 22°21 | 9°R50 | 10°35 | 25°55 | 6°16 | T 15 |
| F 16 | 9 43 41 | 27°23'47 | 8 Ⅲ 33 | 1) 2 | 28°29 | 17°16 | 12° 7 | 15°20 | 9°16 | 14°38 | 22°21 | 9°50 | 10°31 | 26° 2 | 6°21 | F 16 |
| S 17 | 9 47 37 | 28°24'12 | 22°44 | 2°54 | 29°45 | 18° 3 | 12°15 | 15°23 | 9°19 | 14°40 | 22°20 | 9°49 | 10°28 | 26° 9 | 6°25 | S 17 |
| S 18 | 9 51 34 | 29°24'36 | 6951 | 4°47 | 1) 0 | 18°50 | 12°22 | 15°27 | 9°22 | 14°42 | 22°20 | 9°48 | 10°25 | 26°16 | 6°30 | S 18 |
| M19 | 9 55 30 | 0) €24'57 | 20°51 | 6°40 | 2°15 | 19°38 | 12°29 | 15°30 | 9°26 | 14°43 | 22°20 | 9°47 | 10°22 | 26°22 | 6°34 | M19 |
| T 20 | 9 59 27 | 1°25'16 | 4Ω42 | 8°34 | 3°30 | 20°25 | 12°36 | 15°34 | 9°29 | 14°45 | 22°19 | 9°46 | 10°19 | 26°29 | 6°39 | T 20 |
| W21 | 10 3 23 | 2°25'34 | 18°21 | 10°27 | 4°45 | 21°12 | 12°43 | 15°37 | 9°32 | 14°47 | 22°19 | 9°45 | 10°16 | 26°36 | 6°43 | W21 |
| T 22 | 10 7 20 | 3°25'50 | 1 M 46 | 12°21 | 6° 0 | 21°59 | 12°49 | 15°40 | 9°36 | 14°48 | 22°19 | 9°45 | 10°12 | 26°42 | 6°48 | T 22 |
| F 23 | 10 11 17 | 4°26'04 | 14°54 | 14°14 | 7°15 | 22°47 | 12°56 | 15°43 | 9°39 | 14°50 | 22°18 | 9°D45 | 10° 9 | 26°49 | 6°52 | F 23 |
| S 24 | 10 15 13 | 5°26'16 | 27°45 | 16° 7 | 8°30 | 23°34 | 13° 2 | 15°46 | 9°42 | 14°52 | 22°18 | 9°45 | 10° 6 | 26°56 | 6°57 | S 24 |
| S 25 | 10 19 10 | 6°26'26 | 10₽20 | 17°59 | 9°45 | 24°21 | 13° 8 | 15°49 | 9°45 | 14°53 | 22°18 | 9°45 | 10° 3 | 27° 3 | 7° 1 | S 25 |
| M26 | 10 23 6 | 7°26'35 | 22°40 | 19°50 | 10°59 | 25° 8 | 13°14 | 15°52 | 9°48 | 14°55 | 22°18 | 9°46 | 10° 0 | 27° 9 | 7° 5 | M26 |
| T 27 | 10 27 3 | 8°26'42 | 4 M .47 | 21°39 | 12°14 | 25°56 | 13°20 | 15°54 | 9°52 | 14°56 | 22°18 | 9°46 | 9°57 | 27°16 | 7°10 | T 27 |
| W28 | 10 30 59 | 9 ∺ 26'48 | 16 M .46 | 23 米 26 | 13 米 29 | 26≈43 | 13 ∡ 26 | 15 才 57 | 9 ≈ 55 | 14 궁 58 | 22 I 17 | 9°R46 | 9 m 53 | 27 M 23 | 7≈14 | W28 |

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| & Day | ¢ & | Ç | S | ₽. | В | 卉 | Ж | ħ | 4 | ð | Ş | ğ | D | 0 | Sid.t | Day |
|-------------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|-----------------|---------------|------------------|----------------|-----------------|-------------------|----------|------|
| 7 ≈ 18 T 1 | | | 9 m /50 | 9°R46 | 22°R17 | 14 궁 59 | 9≈58 | 15 × 759 | 13 × 32 | 27≈30 | 14) (44 | 25 米 11 | 28 M 39 | 10) 26'52 | 10 34 56 | T 1 |
| 7°23 F 2 | | | 9°47 | 9°D46 | 22 I 17 | 15° 1 | 10° 1 | 16° 2 | 13°37 | 28°18 | 15°59 | 26°53 | 10 ∡ 32 | 11°26'54 | 10 38 52 | F 2 |
| 7°27 S 3 | .7°43 7' | 4 27°4 | 9°44 | 9 m /46 | 22°17 | 15° 2 | 10° 4 | 16° 4 | 13°42 | 29° 5 | 17°14 | 28°32 | 22°29 | 12°26'55 | 10 42 49 | S 3 |
| 7°31 S 4 | | 1 27°5 | 9°41 | 9°46 | 22°17 | 15° 4 | 10° 7 | 16° 6 | 13°47 | 29°52 | 18°29 | 0 Υ 6 | 4 궁 35 | 13°26'54 | 10 46 45 | S 4 |
| 7°35 M 5 | | | 9°37 | 9°46 | 22°17 | 15° 5 | 10°10 | 16° 8 | 13°52 | 0 ∺ 39 | 19°44 | 1°37 | 16°54 | 14°26'52 | 10 50 42 | M 5 |
| 7°39 T 6 | 28° 3 7° | 4 28° | 9°34 | 9°47 | 22°17 | 15° 6 | 10°13 | 16°10 | 13°57 | 1°27 | 20°58 | 3° 2 | 29°30 | 15°26'47 | 10 54 39 | T 6 |
| 7°43 W 7 | 28°10 7 | 1 28°1 | 9°31 | 9°48 | 22°D17 | 15° 8 | 10°16 | 16°12 | 14° 2 | 2°14 | 22°13 | 4°21 | 12≈25 | 16°26'41 | 10 58 35 | W 7 |
| 7°47 T 8 | 28°16 7° | 3 28°1 | 9°28 | 9°48 | 22°17 | 15° 9 | 10°19 | 16°14 | 14° 6 | 3° 1 | 23°28 | 5°35 | 25°41 | 17°26'34 | 11 232 | T 8 |
| 7°51 F 9 | 28°23 7° | 5 28°2 | 9°25 | 9°R48 | 22°17 | 15°10 | 10°22 | 16°16 | 14°10 | 3°48 | 24°43 | 6°42 | 9) 19 | 18°26'24 | 11 6 28 | F 9 |
| 7°55 S 10 | 28°30 7° | 28°3 | 9°22 | 9°48 | 22°17 | 15°12 | 10°25 | 16°17 | 14°14 | 4°35 | 25°57 | 7°42 | 23°16 | 19°26'12 | 11 10 25 | S 10 |
| 7°59 S 11 | | 8 28°3 | 9°18 | 9°47 | 22°17 | 15°13 | 10°28 | 16°19 | 14°18 | 5°23 | 27°12 | 8°35 | 7 Υ 29 | 20°25'58 | 11 14 21 | S 11 |
| 8° 3 M12 | 28°43 8' | 5 28°4 | 9°15 | 9°46 | 22°17 | 15°14 | 10°31 | 16°20 | 14°22 | 6°10 | 28°27 | 9°20 | 21°53 | 21°25'43 | 11 18 18 | M12 |
| 8° 7 T 13 | 28°50 8° | 2 28°5 | 9°12 | 9°45 | 22°17 | 15°15 | 10°34 | 16°22 | 14°26 | 6°57 | 29°41 | 9°58 | 6 8 23 | 22°25'25 | 11 22 14 | T 13 |
| 8°10 W14 | 28°57 8° | 9 28°5 | 9° 9 | 9°43 | 22°18 | 15°16 | 10°36 | 16°23 | 14°29 | 7°44 | 0 Υ 56 | 10°27 | 20°53 | 23°25'05 | 11 26 11 | W14 |
| 8°14 T 15 | 29° 4 8° | 5 29° | 9° 6 | 9°42 | 22°18 | 15°17 | 10°39 | 16°24 | 14°32 | 8°31 | 2°11 | 10°49 | 5 Ⅱ 18 | 24°24'42 | 11 30 8 | T 15 |
| 8°18 F 16 | 29°10 8' | 2 29°1 | 9° 2 | 9°D41 | 22°18 | 15°18 | 10°42 | 16°25 | 14°35 | 9°18 | 3°25 | 11° 2 | 19°34 | 25°24'18 | 11 34 4 | F 16 |
| 8°21 S 17 | 29°17 8° | 9 29°1 | 8°59 | 9°41 | 22°18 | 15°19 | 10°45 | 16°26 | 14°38 | 10° 5 | 4°40 | 11°R 7 | 3938 | 26°23'51 | 11 38 1 | S 17 |
| 8°25 S 18 | 29°24 8' | 5 29°2 | 8°56 | 9°42 | 22°18 | 15°20 | 10°47 | 16°27 | 14°41 | 10°52 | 5°54 | 11° 3 | 17°30 | 27°23'21 | 11 41 57 | S 18 |
| 8°29 M19 | 29°30 8' | 3 29°3 | 8°53 | 9°43 | 22°19 | 15°21 | 10°50 | 16°28 | 14°43 | 11°40 | 7° 9 | 10°53 | 1 Q 9 | 28°22'49 | 11 45 54 | M19 |
| 8°32 T 20 | 29°37 8' | 29°3 | 8°50 | 9°45 | 22°19 | 15°22 | 10°53 | 16°28 | 14°46 | 12°27 | 8°23 | 10°35 | 14°34 | 29°22'15 | 11 49 50 | T 20 |
| 8°36 W21 | 29°44 8' | 7 29°4 | 8°47 | 9°46 | 22°19 | 15°23 | 10°55 | 16°29 | 14°48 | 13°14 | 9°38 | 10°10 | 27°46 | 0 Υ 21'39 | 11 53 47 | W21 |
| 8°39 T 22 | 29°51 8° | 3 29°5 | 8°43 | 9°R46 | 22°20 | 15°24 | 10°58 | 16°29 | 14°50 | 14° 1 | 10°52 | 9°39 | 10 m)46 | 1°21'00 | 11 57 43 | T 22 |
| 8°42 F 23 | 29°57 8' |) 29°5 | 8°40 | 9°45 | 22°20 | 15°25 | 11° 0 | 16°30 | 14°51 | 14°48 | 12° 7 | 9° 3 | 23°33 | 2°20'20 | 12 1 40 | F 23 |
| 8°46 S 24 | √ 4 8' | 7 0 .7 | 8°37 | 9°44 | 22°20 | 15°26 | 11° 3 | 16°30 | 14°53 | 15°35 | 13°21 | 8°22 | 6 亞 8 | 3°19'37 | 12 5 37 | S 24 |
| 8°49 S 25 | | | 8°34 | 9°41 | 22°21 | 15°27 | 11° 5 | 16°30 | 14°54 | 16°21 | 14°36 | 7°37 | 18°32 | 4°18'52 | 12 9 33 | S 25 |
| 8°52 M26 | | | 8°31 | 9°36 | 22°21 | 15°27 | 11° 7 | 16°R30 | 14°56 | 17° 8 | 15°50 | 6°50 | 0 M .45 | 5°18'05 | 12 13 30 | M26 |
| 8°55 T 27 | 0°24 8' | 3 0°2 | 8°28 | 9°32 | 22°22 | 15°28 | 11°10 | 16°30 | 14°57 | 17°55 | 17° 4 | 6° 0 | 12°49 | 6°17'16 | 12 17 26 | T 27 |
| 8°58 W28 | 0°31 8' | 4 0°3 | 8°24 | 9°27 | 22°22 | 15°29 | 11°12 | 16°30 | 14°57 | 18°42 | 18°19 | 5°11 | 24°47 | 7°16'25 | 12 21 23 | W28 |
| 9° 1 T 29 | 0°38 9° | 1 0°3 | 8°21 | 9°23 | 22°23 | 15°29 | 11°14 | 16°30 | 14°58 | 19°29 | 19°33 | 4°21 | 6 ₹ 40 | 8°15'33 | 12 25 19 | T 29 |
| 9° 4 F 30 | 0°44 9° | 3 0°4 | 8°18 | 9°20 | 22°23 | 15°30 | 11°17 | 16°29 | 14°59 | 20°16 | 20°47 | 3°33 | 18°32 | 9°14'39 | 12 29 16 | F 30 |
| 9≈ 7 S 31 | √ 51 9≈ | 5 0 √ 5 | 8 m 15 | 9 m)18 | 22 II 24 | 15 ට 31 | 11 ≈ 19 | 16 × 129 | 14 × 759 | 21 米 3 | 22 Y 1 | 2 Ƴ 47 | 0중28 | 10 Υ 13'42 | 12 33 12 | S 31 |
| | 0°44 | 8 0°4 | 8°18 | 9°20 | 22°23 | 15°30 | 11°17 | 16°29 | 14°59 | 20°16 | | 3°33 | 18°32 | 9°14'39 | 12 29 16 | F 30 |

Delta T = 34.24 sec Greg. Calendar

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|------|----------|-------------------|----------------|----------------|----------------|------------------|-----------------|-----------------------------|----------------|----------------|-------|----------------|-----------------|---------------|-------|------|
| S 1 | 12 37 9 | 11 ° 12'44 | 12 る 32 | 2°R 3 | 23 Y 16 | 21) (49 | 14°R59 | 16°R28 | 11 ≈ 21 | 15 る 31 | 22∏24 | 9°D18 | 8 m) 12 | 0 ≯ 58 | 9≈10 | S 1 |
| M 2 | 12 41 5 | 12°11'45 | 24°48 | 1 Y 23 | 24°30 | 22°36 | 14 ×7 59 | 16 × ⁷ 28 | 11°23 | 15°32 | 22°25 | 9 m)18 | 8° 8 | 1° 5 | 9°13 | M 2 |
| T 3 | 12 45 2 | 13°10'43 | 7≈21 | 0°48 | 25°44 | 23°23 | 14°58 | 16°27 | 11°25 | 15°32 | 22°25 | 9°20 | 8° 5 | 1°11 | 9°16 | T 3 |
| W 4 | 12 48 59 | 14° 9'40 | 20°16 | 0°16 | 26°58 | 24°10 | 14°58 | 16°26 | 11°27 | 15°33 | 22°26 | 9°21 | 8° 2 | 1°18 | 9°19 | W 4 |
| T 5 | 12 52 55 | 15° 8'35 | 3 ∺ 35 | 29 米 50 | 28°12 | 24°56 | 14°57 | 16°25 | 11°29 | 15°33 | 22°27 | 9°R22 | 7°59 | 1°25 | 9°21 | T 5 |
| F 6 | 12 56 52 | 16° 7'28 | 17°21 | 29°29 | 29°26 | 25°43 | 14°56 | 16°24 | 11°31 | 15°34 | 22°27 | 9°22 | 7°56 | 1°31 | 9°24 | F 6 |
| S 7 | 13 0 48 | 17° 6'19 | 1 Y 32 | 29°13 | 0840 | 26°29 | 14°55 | 16°23 | 11°33 | 15°34 | 22°28 | 9°21 | 7°53 | 1°38 | 9°26 | S 7 |
| S 8 | 13 4 45 | 18° 5'09 | 16° 5 | 29° 3 | 1°54 | 27°16 | 14°54 | 16°22 | 11°35 | 15°34 | 22°29 | 9°17 | 7°49 | 1°45 | 9°29 | S 8 |
| M 9 | 13 8 41 | 19° 3'56 | 0 8 54 | 28°D57 | 3° 8 | 28° 3 | 14°53 | 16°20 | 11°37 | 15°35 | 22°29 | 9°12 | 7°46 | 1°52 | 9°31 | M 9 |
| T 10 | 13 12 38 | 20° 2'41 | 15°51 | 28°57 | 4°22 | 28°49 | 14°51 | 16°19 | 11°39 | 15°35 | 22°30 | 9° 6 | 7°43 | 1°58 | 9°34 | T 10 |
| W11 | 13 16 34 | 21° 1'24 | 0 Ⅱ 47 | 29° 3 | 5°36 | 29°36 | 14°49 | 16°18 | 11°40 | 15°35 | 22°31 | 8°59 | 7°40 | 2° 5 | 9°36 | W11 |
| T 12 | 13 20 31 | 22° 0'05 | 15°33 | 29°13 | 6°50 | 0 Υ 22 | 14°47 | 16°16 | 11°42 | 15°35 | 22°32 | 8°54 | 7°37 | 2°12 | 9°38 | T 12 |
| F 13 | 13 24 28 | 22°58'44 | 0ණ 4 | 29°28 | 8° 4 | 1° 8 | 14°45 | 16°14 | 11°44 | 15°35 | 22°32 | 8°50 | 7°34 | 2°18 | 9°40 | F 13 |
| S 14 | 13 28 24 | 23°57'21 | 14°15 | 29°48 | 9°18 | 1°55 | 14°43 | 16°13 | 11°45 | 15°35 | 22°33 | 8°48 | 7°30 | 2°25 | 9°42 | S 14 |
| S 15 | 13 32 21 | 24°55'55 | 28° 4 | 0 Υ 12 | 10°32 | 2°41 | 14°40 | 16°11 | 11°47 | 15°36 | 22°34 | 8°D48 | 7°27 | 2°32 | 9°44 | S 15 |
| M16 | 13 36 17 | 25°54'27 | 11 £ 33 | 0°41 | 11°46 | 3°27 | 14°38 | 16° 9 | 11°48 | 15°36 | 22°35 | 8°49 | 7°24 | 2°39 | 9°46 | M16 |
| T 17 | 13 40 14 | 26°52'57 | 24°43 | 1°14 | 13° 0 | 4°14 | 14°35 | 16° 7 | 11°50 | 15°R36 | 22°36 | 8°50 | 7°21 | 2°45 | 9°48 | T 17 |
| W18 | 13 44 10 | 27°51'25 | 7 ™ 37 | 1°51 | 14°13 | 5° 0 | 14°32 | 16° 5 | 11°51 | 15°36 | 22°37 | 8°R50 | 7°18 | 2°52 | 9°50 | W18 |
| T 19 | 13 48 7 | 28°49'51 | 20°17 | 2°32 | 15°27 | 5°46 | 14°28 | 16° 2 | 11°53 | 15°36 | 22°38 | 8°50 | 7°14 | 2°59 | 9°52 | T 19 |
| F 20 | 13 52 3 | 29°48'14 | 2 ≏ 46 | 3°16 | 16°41 | 6°32 | 14°25 | 16° 0 | 11°54 | 15°36 | 22°39 | 8°47 | 7°11 | 3° 6 | 9°54 | F 20 |
| S 21 | 13 56 0 | 0 8 46'36 | 15° 5 | 4° 4 | 17°54 | 7°18 | 14°21 | 15°58 | 11°55 | 15°35 | 22°39 | 8°42 | 7° 8 | 3°12 | 9°55 | S 21 |
| S 22 | 13 59 57 | 1°44'55 | 27°16 | 4°55 | 19°8 | 8° 4 | 14°18 | 15°55 | 11°57 | 15°35 | 22°40 | 8°35 | 7° 5 | 3°19 | 9°57 | S 22 |
| M23 | 14 3 53 | 2°43'13 | 9 M 20 | 5°50 | 20°22 | 8°50 | 14°14 | 15°53 | 11°58 | 15°35 | 22°41 | 8°25 | 7° 2 | 3°26 | 9°59 | M23 |
| T 24 | 14 7 50 | 3°41'29 | 21°19 | 6°47 | 21°35 | 9°36 | 14°10 | 15°50 | 11°59 | 15°35 | 22°42 | 8°15 | 6°59 | 3°32 | 10° 0 | T 24 |
| W25 | 14 11 46 | 4°39'43 | 3 ₹ 13 | 7°48 | 22°49 | 10°22 | 14° 5 | 15°47 | 12° 0 | 15°35 | 22°43 | 8° 4 | 6°55 | 3°39 | 10° 2 | W25 |
| T 26 | 14 15 43 | 5°37'56 | 15° 6 | 8°51 | 24° 2 | 11° 8 | 14° 1 | 15°44 | 12° 1 | 15°34 | 22°44 | 7°54 | 6°52 | 3°46 | 10° 3 | T 26 |
| F 27 | 14 19 39 | 6°36'07 | 26°58 | 9°57 | 25°16 | 11°54 | 13°56 | 15°42 | 12° 2 | 15°34 | 22°45 | 7°46 | 6°49 | 3°53 | 10° 4 | F 27 |
| S 28 | 14 23 36 | 7°34'17 | 8 궁 53 | 11° 6 | 26°29 | 12°40 | 13°52 | 15°39 | 12° 3 | 15°34 | 22°46 | 7°40 | 6°46 | 3°59 | 10° 5 | S 28 |
| S 29 | 14 27 32 | 8°32'25 | 20°56 | 12°17 | 27°43 | 13°26 | 13°47 | 15°36 | 12° 4 | 15°33 | 22°48 | 7°36 | 6°43 | 4° 6 | 10° 7 | S 29 |
| M30 | 14 31 29 | 9 8 30'32 | 3≈ 9 | 13 Y 31 | 28 8 56 | 14 Y 12 | 13 ×7 42 | 15 × 33 | 12≈ 5 | 15 云 33 | 22∏49 | 7 m 34 | 6 m 39 | 4 ₹ 13 | 10≈ 8 | M30 |

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|-------------|----------------------|-----------------------------|---------------------------------|----------------------|-----------------------|-----------------------|-------------------------|-------------------------|------------------------|-----------------------|-------------------------|-----------------------|------------------------|-----------------------|------------------------|-------------|
| T 1 | 14 35 26 | 10828'37 | 15 ≈ 39 | 14 Y 47 | 0 I I10 | 14 Y 57 | 13°R37 | 15°R29 | 12≈ 6 | 15°R33 | 22 II 50 | 7°D34 | 6 m 36 | 4 ₹ 19 | 10≈ 9 | T 1 |
| W 2 | 14 39 22 | 11°26'41 | 28°29 | 16° 6 | 1°23 | 15°43 | 13 × 31 | 15 ₹ 26 | 12° 6 | 15 る 32 | 22°51 | 7 m 35 | 6°33 | 4°26 | 10°10 | W 2 |
| T 3 | 14 43 19 | 12°24'43 | 11) (44 | 17°27 | 2°36 | 16°29 | 13°26 | 15°23 | 12° 7 | 15°32 | 22°52 | 7°R35 | 6°30 | 4°33 | 10°10 | T 3 |
| F 4 | 14 47 15 | 13°22'44 | 25°27 | 18°50 | 3°50 | 17°14 | 13°20 | 15°20 | 12° 8 | 15°31 | 22°53 | 7°33 | 6°27 | 4°40 | 10°11 | F 4 |
| S 5 | 14 51 12 | 14°20'44 | 9 Υ 39 | 20°15 | 5° 3 | 18° 0 | 13°15 | 15°16 | 12° 8 | 15°31 | 22°54 | 7°30 | 6°24 | 4°46 | 10°12 | S 5 |
| S 6 | 14 55 8 | 15°18'42 | 24°18 | 21°43 | 6°16 | 18°45 | 13° 9 | 15°13 | 12° 9 | 15°30 | 22°55 | 7°24 | 6°20 | 4°53 | 10°13 | S 6 |
| M 7 | 14 59 5 | 16°16'39 | 9819 | 23°12 | 7°29 | 19°31 | 13° 3 | 15° 9 | 12° 9 | 15°30 | 22°57 | 7°16 | 6°17 | 5° 0 | 10°13 | M 7 |
| T 8 | 15 3 1 | 17°14'34 | 24°32 | 24°44 | 8°43 | 20°16 | 12°57 | 15° 6 | 12°10 | 15°29 | 22°58 | 7° 6 | 6°14 | 5° 7 | 10°14 | T 8 |
| W 9 T 10 | 15 6 58 | 18°12'28 19°10'20 | 9 ∏ 47 | 26°18 27°54 | 9°56 11° 9 | 21° 1 21°47 | 12°50 12°44 | 15° 2 | 12°10 12°11 | 15°28 15°28 | 22°59 23° 0 | 6°56 6°47 | 6°11 6°8 | 5°13 5°20 | 10°14 10°15 | W 9 T 10 |
| F 11 | 15 10 54 15 14 51 | 20° 8'11 | 24°53 9 © 41 | 27°34 29°32 | 11° 9 12°22 | 21°47 22°32 | 12°44 12°38 | 14°58 14°54 | 12°11 | 15°27 | 23° 0 | 6°39 | 6° 5 | 5°27 | 10°15 | F 11 |
| S 12 | 15 18 48 | 21° 6'00 | 24° 4 | 1813 | 13°35 | 23°17 | 12°31 | 14°51 | 12°11 | 15°26 | 23° 3 | 6°35 | 6° 1 | 5°33 | 10°15 | S 12 |
| | | | | _ | | | | | | | | | | | | |
| S 13 | 15 22 44 | 22° 3'47 | 8 Ω 1 21°31 | 2°55 4°39 | 14°48 16° 1 | 24° 2 | 12°25 12°18 | 14°47 14°43 | 12°11 | 15°25 15°24 | 23° 4 23° 5 | 6°32 | 5°58 | 5°40 5°47 | 10°15 10°16 | S 13 |
| M14 T 15 | 15 26 41 15 30 37 | 23° 1'32 23°59'16 | 4m)37 | 6°26 | 16° 1 17°14 | 24°47 25°32 | 12°18 12°11 | 14°43 14°39 | 12°12 12°12 | 15°24 15°24 | 23° 5 23° 6 | 6°D32 6°R32 | 5°55 5°52 | 5°54 | 10°16 10°R16 | M14 T 15 |
| W16 | 15 34 34 | 24°56'58 | 17°23 | 8°15 | 17 14 18°27 | 25°17 | 12°11 | 14°35 | 12°12 | 15°23 | 23° 8 | 6°31 | 5°49 | 6° 0 | 10°16 | W16 |
| T 17 | 15 38 30 | 25°54'39 | 29°52 | 10° 5 | 19°40 | 27° 2 | 11°57 | 14°31 | 12°R12 | 15°22 | 23° 9 | 6°29 | 5°45 | 6° 7 | 10°16 | T 17 |
| F 18 | 15 42 27 | 26°52'17 | 12 Ω 9 | 11°58 | 20°53 | 27°47 | 11°50 | 14°27 | 12°12 | 15°21 | 23°10 | 6°25 | 5°42 | 6°14 | 10°15 | F 18 |
| S 19 | 15 46 23 | 27°49'55 | 24°17 | 13°53 | 22° 6 | 28°32 | 11°43 | 14°23 | 12°12 | 15°20 | 23°12 | 6°18 | 5°39 | 6°20 | 10°15 | S 19 |
| S 20 | 15 50 20 | 28°47'31 | 6 M .18 | 15°50 | 23°19 | 29°16 | 11°36 | 14°19 | 12°12 | 15°19 | 23°13 | 6° 8 | 5°36 | 6°27 | 10°15 | S 20 |
| M21 | 15 54 17 | 29°45'06 | 18°15 | 17°49 | 24°31 | 08 1 | 11°28 | 14°14 | 12°11 | 15°18 | 23°14 | 5°56 | 5°33 | 6°34 | 10°15 | M21 |
| T 22 | 15 58 13 | 0 Ⅱ 42'39 | 0 才 9 | 19°50 | 25°44 | 0°46 | 11°21 | 14°10 | 12°11 | 15°17 | 23°16 | 5°43 | 5°30 | 6°41 | 10°14 | T 22 |
| W23 | 16 2 10 | 1°40'12 | 12° 2 | 21°52 | 26°57 | 1°30 | 11°14 | 14° 6 | 12°11 | 15°16 | 23°17 | 5°29 | 5°26 | 6°47 | 10°14 | W23 |
| T 24 | 16 6 6 | 2°37'43 | 23°55 | 23°57 | 28° 9 | 2°15 | 11° 6 | 14° 2 | 12°11 | 15°15 | 23°18 | 5°15 | 5°23 | 6°54 | 10°13 | T 24 |
| F 25 | 16 10 3 | 3°35'14 | 5 ₹ 49 | 26° 3 | 29°22 | 2°59 | 10°59 | 13°57 | 12°10 | 15°14 | 23°20 | 5° 4 | 5°20 | 7° 1 | 10°12 | F 25 |
| S 26 | 16 13 59 | 4°32'43 | 17°48 | 28°10 | 0935 | 3°44 | 10°51 | 13°53 | 12°10 | 15°13 | 23°21 | 4°55 | 5°17 | 7° 8 | 10°12 | S 26 |
| S 27 | 16 17 56 | 5°30'11 | 29°53 | 0 Ⅱ 19 | 1°47 | 4°28 | 10°43 | 13°49 | 12° 9 | 15°12 | 23°22 | 4°49 | 5°14 | 7°14 | 10°11 | S 27 |
| M28 | 16 21 53 | 6°27'39 | 12≈ 8 | 2°29 | 3° 0 | 5°13 | 10°36 | 13°44 | 12° 9 | 15°11 | 23°24 | 4°46 | 5°11 | 7°21 | 10°10 | M28 |
| T 29 | 16 25 49 | 7°25'06 | 24°37 | 4°40 | 4°12 | 5°57 | 10°28 | 13°40 | 12° 8 | 15° 9 | 23°25 | 4°45 | 5° 7 | 7°28 | 10° 9 | T 29 |
| W30 T 31 | 16 29 46 16 33 42 | 8°22'32 9 П 19'58 | 7 ∺ 24 20 ∺ 34 | 6°52 9 Ⅱ 4 | 5°25 6 9 37 | 6°41 7 8 25 | 10°21 10 × 13 | 13°36 13 × 31 | 12° 8 12 ≈ 7 | 15°8 15 る 7 | 23°26 23 Ⅱ 28 | 4°45 4 % 44 | 5° 4 5 m) 1 | 7°34 7 √ 41 | 10° 8 10 ≈ 7 | W30 T 31 |
| 1 31 | 10 33 42 | эц 19 38 | 20八34 | 9Д 4 | 0=93/ | 1023 | 10%.13 | 13%.31 | 12~~ / | 130 / | 23 H 28 | 4111/44 | ו עווכ | /×·41 | 10~~ / | 1 31 |

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Greg. Calendar

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| S 2 16 41 35 11°14'47 18°15 13°28 9° 2 8°54 9x758 13x722 12≈ 6 15♂ 4 23°31 4m39 4°55 7°55 10≈ 8 10°14 10°49 10°44 10°49 | R 6 F 1 |
|---|----------------------------|
| S 3 16 45 32 12°12'10 2848 15°39 10°14 9°38 9°50 13°18 12° 5 15° 3 23°32 4°33 4°51 8° 1 10 16 49 28 13° 9'33 17°44 17°50 11°26 10°21 9°42 13°13 12° 4 15° 2 23°33 4°25 4°48 8° 8 10 10°21 | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | \$ 5 S 2 |
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| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 9°59 T 7 |
| S 10 | 9°57 F 8 |
| M11 17 17 4 19°50′55 0mp43 2°28 19°51 15°27 8°50 12°43 11°57 14°52 23°43 3°D37 4°26 8°55 9 T12 17 21 1 20°48′11 13°53 4°26 21° 3 16°11 8°42 12°38 11°56 14°51 23°45 3°37 4°23 9° 2 9 W13 17 24 57 21°45′27 26°39 6°23 22°15 16°54 8°35 12°34 11°55 14°49 23°46 3°R37 4°20 9° 9 9 T14 17 28 54 22°42′42 9 € 6 8°16 23°27 17°38 8°28 12°30 11°53 14°48 23°48 3°36 4°17 9°15 9 | 9°56 S 9 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 9°54 S 10 |
| W13 17 24 57 21°45'27 26°39 6°23 22°15 16°54 8°35 12°34 11°55 14°49 23°46 3°R37 4°20 9° 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 9°52 M11 |
| T 14 17 28 54 22°42'42 9\(omega\) 6 8°16 23°27 17°38 8°28 12°30 11°53 14°48 23°48 3°36 4°17 9°15 9°15 | 9°50 T 12 |
| | 9°49 W13 |
| | 9°47 T 14 |
| | 9°45 F 15 9°43 S 16 |
| | |
| | 9°41 S 17 |
| | 9°39 M18 |
| | 9°37 T 19 |
| | 9°35 W20 9°32 T 21 |
| | 9°30 F 22 |
| | 9°28 S 23 |
| | |
| | 9°25 S 24 |
| | 9°23 M25 9°21 T 26 |
| | 9°18 W27 |
| | 9°15 T 28 |
| | 9°13 F 29 |
| S 30 18 31 59 755750 27 41 3 \(\Omega 24 \) 12 \(\Omega 30 \) 29 \(\Omega 2 \) 6 \(\omega 44 \) 11 \(\omega 25 \) 11 \(\omega 28 \) 14 \(\omega 23 \) 24 \(\omega 11 \) 1 2 \(\omega 8 \) 3 \(\omega 26 \) 11 \(\omega 3 \) 9 \(\omega 27 \) | |

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JULY 1663 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | P | ď | 4 | ħ |)f(| ¥ | Р | ß | ದಿ | Ç | ę, | Day |
|------|----------|------------------|-----------------|---------------|----------------|----------------|---------------|-----------------|----------------|----------------|-------|---------------|---------------|----------------|---------------|------|
| S 1 | 18 35 55 | 8955'02 | 128 1 | 4 Ω 38 | 13 Ω 41 | 29 8 45 | 6°R39 | 11°R21 | 11°R26 | 14°R22 | 24∏12 | 2°R 5 | 3 Mg 22 | 11 × 10 | 9°R 8 | S 1 |
| M 2 | 18 39 52 | 9°52'14 | 26°44 | 5°49 | 14°52 | 0 Ⅲ 27 | 6 ₮ 33 | 11 .7 17 | 11 ≈ 24 | 14 궁 20 | 24°13 | 1 m 59 | 3°19 | 11°16 | 9 ∞ 5 | M 2 |
| T 3 | 18 43 49 | 10°49'27 | 11 Ⅱ 42 | 6°57 | 16° 3 | 1° 9 | 6°28 | 11°14 | 11°22 | 14°18 | 24°15 | 1°52 | 3°16 | 11°23 | 9° 2 | T 3 |
| W 4 | 18 47 45 | 11°46'40 | 26°49 | 8° 2 | 17°14 | 1°51 | 6°23 | 11°10 | 11°20 | 14°17 | 24°16 | 1°45 | 3°13 | 11°30 | 8°59 | W 4 |
| T 5 | 18 51 42 | 12°43'54 | 11954 | 9° 5 | 18°24 | 2°33 | 6°18 | 11° 7 | 11°18 | 14°15 | 24°18 | 1°38 | 3°10 | 11°37 | 8°56 | T 5 |
| F 6 | 18 55 38 | 13°41'07 | 26°47 | 10° 4 | 19°35 | 3°15 | 6°13 | 11° 4 | 11°16 | 14°13 | 24°19 | 1°32 | 3° 7 | 11°43 | 8°54 | F 6 |
| S 7 | 18 59 35 | 14°38'21 | 11 Ω 21 | 11° 1 | 20°46 | 3°57 | 6° 9 | 11° 0 | 11°14 | 14°12 | 24°20 | 1°28 | 3° 3 | 11°50 | 8°51 | S 7 |
| S 8 | 19 3 31 | 15°35'34 | 25°30 | 11°54 | 21°56 | 4°39 | 6° 4 | 10°57 | 11°12 | 14°10 | 24°22 | 1°D27 | 3° 0 | 11°57 | 8°48 | S 8 |
| M 9 | 19 7 28 | 16°32'48 | 9 m 12 | 12°44 | 23° 7 | 5°20 | 6° 0 | 10°54 | 11°10 | 14° 9 | 24°23 | 1°27 | 2°57 | 12° 3 | 8°45 | M 9 |
| T 10 | 19 11 24 | 17°30'02 | 22°27 | 13°31 | 24°17 | 6° 2 | 5°56 | 10°51 | 11°8 | 14° 7 | 24°24 | 1°28 | 2°54 | 12°10 | 8°42 | T 10 |
| W11 | 19 15 21 | 18°27'16 | 5 ≙ 17 | 14°14 | 25°28 | 6°44 | 5°52 | 10°48 | 11° 6 | 14° 5 | 24°26 | 1°29 | 2°51 | 12°17 | 8°39 | W11 |
| T 12 | 19 19 18 | 19°24'30 | 17°47 | 14°53 | 26°38 | 7°25 | 5°48 | 10°45 | 11° 4 | 14° 4 | 24°27 | 1°R30 | 2°48 | 12°24 | 8°36 | T 12 |
| F 13 | 19 23 14 | 20°21'44 | 0 M 1 | 15°28 | 27°48 | 8° 7 | 5°44 | 10°42 | 11° 1 | 14° 2 | 24°28 | 1°30 | 2°44 | 12°30 | 8°33 | F 13 |
| S 14 | 19 27 11 | 21°18'58 | 12° 3 | 16° 0 | 28°58 | 8°48 | 5°41 | 10°39 | 10°59 | 14° 1 | 24°30 | 1°27 | 2°41 | 12°37 | 8°30 | S 14 |
| S 15 | 19 31 7 | 22°16'13 | 23°59 | 16°27 | 0 m) 8 | 9°29 | 5°37 | 10°36 | 10°57 | 13°59 | 24°31 | 1°24 | 2°38 | 12°44 | 8°26 | S 15 |
| M16 | 19 35 4 | 23°13'28 | 5 ₹ 51 | 16°49 | 1°18 | 10°10 | 5°34 | 10°34 | 10°55 | 13°57 | 24°32 | 1°18 | 2°35 | 12°50 | 8°23 | M16 |
| T 17 | 19 39 0 | 24°10'43 | 17°44 | 17° 8 | 2°28 | 10°52 | 5°31 | 10°31 | 10°53 | 13°56 | 24°33 | 1°12 | 2°32 | 12°57 | 8°20 | T 17 |
| W18 | 19 42 57 | 25° 7'59 | 29°40 | 17°21 | 3°38 | 11°33 | 5°28 | 10°28 | 10°50 | 13°54 | 24°35 | 1° 6 | 2°28 | 13° 4 | 8°17 | W18 |
| T 19 | 19 46 53 | 26° 5'15 | 11 る 42 | 17°30 | 4°48 | 12°14 | 5°26 | 10°26 | 10°48 | 13°53 | 24°36 | 0°59 | 2°25 | 13°11 | 8°14 | T 19 |
| F 20 | 19 50 50 | 27° 2'32 | 23°51 | 17°R34 | 5°57 | 12°55 | 5°23 | 10°24 | 10°46 | 13°51 | 24°37 | 0°54 | 2°22 | 13°17 | 8°11 | F 20 |
| S 21 | 19 54 47 | 27°59'49 | 6≈ 8 | 17°33 | 7° 7 | 13°36 | 5°21 | 10°21 | 10°43 | 13°49 | 24°39 | 0°50 | 2°19 | 13°24 | 8° 7 | S 21 |
| S 22 | 19 58 43 | 28°57'07 | 18°36 | 17°27 | 8°16 | 14°16 | 5°19 | 10°19 | 10°41 | 13°48 | 24°40 | 0°48 | 2°16 | 13°31 | 8° 4 | S 22 |
| M23 | 20 2 40 | 29°54'26 | 1) (14 | 17°16 | 9°26 | 14°57 | 5°17 | 10°17 | 10°39 | 13°46 | 24°41 | 0°D48 | 2°13 | 13°38 | 8° 1 | M23 |
| T 24 | 20 6 36 | 0 Ω 51'46 | 14° 5 | 17° 0 | 10°35 | 15°38 | 5°15 | 10°15 | 10°36 | 13°45 | 24°42 | 0°48 | 2° 9 | 13°44 | 7°58 | T 24 |
| W25 | 20 10 33 | 1°49'07 | 27° 9 | 16°39 | 11°44 | 16°18 | 5°14 | 10°13 | 10°34 | 13°43 | 24°43 | 0°50 | 2° 6 | 13°51 | 7°54 | W25 |
| T 26 | 20 14 29 | 2°46'28 | 10 Y 29 | 16°13 | 12°53 | 16°59 | 5°12 | 10°11 | 10°32 | 13°42 | 24°45 | 0°51 | 2° 3 | 13°58 | 7°51 | T 26 |
| F 27 | 20 18 26 | 3°43'51 | 24° 5 | 15°42 | 14° 2 | 17°39 | 5°11 | 10°10 | 10°29 | 13°40 | 24°46 | 0°52 | 2° 0 | 14° 4 | 7°48 | F 27 |
| S 28 | 20 22 22 | 4°41'15 | 7 8 58 | 15° 8 | 15°11 | 18°20 | 5°10 | 10° 8 | 10°27 | 13°39 | 24°47 | 0°R52 | 1°57 | 14°11 | 7°45 | S 28 |
| S 29 | 20 26 19 | 5°38'41 | 22° 9 | 14°30 | 16°20 | 19° 0 | 5° 9 | 10° 6 | 10°25 | 13°37 | 24°48 | 0°52 | 1°54 | 14°18 | 7°41 | S 29 |
| M30 | 20 30 16 | 6°36'07 | 6 Ⅱ 34 | 13°48 | 17°29 | 19°40 | 5° 9 | 10° 5 | 10°22 | 13°36 | 24°49 | 0°50 | 1°50 | 14°25 | 7°38 | M30 |
| T 31 | 20 34 12 | 7 Ω 33'35 | 21 I I12 | 13 N 4 | 18 M 37 | 20Ⅱ20 | 5 ₹ 8 | 10 才 3 | 10≈20 | 13 る 34 | 24耳50 | 0 m 47 | 1 M 47 | 14 × 31 | 7 ≈ 35 | T 31 |

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Greg. Calendar

AUGUST 1663 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ | ፟ | ¥ | Р | S. | ය | Ç | Ŷ, | Day |
|------|----------|------------------|------------------|----------------|-----------------|-----------------|---------------|---------------|--------|----------------|----------------|---------------|-----------------|-----------------|---------------|------|
| W 1 | 20 38 9 | 8 Ω 31'05 | 5 9 55 | 12°R18 | 19 M /46 | 21 I I 1 | 5°R 8 | 10°R 2 | 10°R17 | 13°R33 | 24 Ⅱ 51 | 0°R44 | 1 m) 44 | 14 ×7 38 | 7°R31 | W 1 |
| T 2 | 20 42 5 | 9°28'35 | 20°39 | 11 £ 31 | 20°54 | 21°41 | 5°D 8 | 10 × 1 | 10≈15 | 13 云 31 | 24°52 | 0 m 41 | 1°41 | 14°45 | 7 ≈ 28 | T 2 |
| F 3 | 20 46 2 | 10°26'06 | 5 Ω 14 | 10°44 | 22° 3 | 22°21 | 5 ,₹ 8 | 10° 0 | 10°13 | 13°30 | 24°53 | 0°39 | 1°38 | 14°51 | 7°25 | F 3 |
| S 4 | 20 49 58 | 11°23'39 | 19°35 | 9°57 | 23°11 | 23° 0 | 5° 8 | 9°59 | 10°10 | 13°29 | 24°55 | 0°38 | 1°34 | 14°58 | 7°21 | S 4 |
| S 5 | 20 53 55 | 12°21'13 | 3 m 37 | 9°12 | 24°19 | 23°40 | 5° 9 | 9°58 | 10° 8 | 13°27 | 24°56 | 0°D38 | 1°31 | 15° 5 | 7°18 | S 5 |
| M 6 | 20 57 51 | 13°18'47 | 17°16 | 8°29 | 25°27 | 24°20 | 5°10 | 9°57 | 10° 6 | 13°26 | 24°57 | 0°38 | 1°28 | 15°12 | 7°15 | M 6 |
| T 7 | 21 1 48 | 14°16'23 | 0 ჲ 32 | 7°49 | 26°35 | 24°59 | 5°10 | 9°56 | 10° 3 | 13°25 | 24°58 | 0°39 | 1°25 | 15°18 | 7°12 | T 7 |
| W 8 | 21 5 45 | 15°13'59 | 13°25 | 7°14 | 27°43 | 25°39 | 5°12 | 9°56 | 10° 1 | 13°23 | 24°59 | 0°41 | 1°22 | 15°25 | 7° 8 | W 8 |
| T 9 | 21 941 | 16°11'37 | 25°58 | 6°43 | 28°50 | 26°18 | 5°13 | 9°55 | 9°58 | 13°22 | 25° 0 | 0°42 | 1°19 | 15°32 | 7° 5 | T 9 |
| F 10 | 21 13 38 | 17° 9'15 | 8M 14 | 6°18 | 29°58 | 26°58 | 5°14 | 9°55 | 9°56 | 13°21 | 25° 1 | 0°43 | 1°15 | 15°38 | 7° 2 | F 10 |
| S 11 | 21 17 34 | 18° 6'55 | 20°18 | 5°59 | 1 ≏ 5 | 27°37 | 5°16 | 9°54 | 9°54 | 13°19 | 25° 1 | 0°R43 | 1°12 | 15°45 | 6°59 | S 11 |
| S 12 | 21 21 31 | 19° 4'36 | 2 √ 14 | 5°46 | 2°13 | 28°16 | 5°18 | 9°54 | 9°51 | 13°18 | 25° 2 | 0°42 | 1° 9 | 15°52 | 6°56 | S 12 |
| M13 | 21 25 27 | 20° 2'17 | 14° 7 | 5°D41 | 3°20 | 28°55 | 5°20 | 9°54 | 9°49 | 13°17 | 25° 3 | 0°41 | 1° 6 | 15°59 | 6°52 | M13 |
| T 14 | 21 29 24 | 21° 0'00 | 26° 1 | 5°42 | 4°27 | 29°35 | 5°22 | 9°D54 | 9°47 | 13°16 | 25° 4 | 0°40 | 1° 3 | 16° 5 | 6°49 | T 14 |
| W15 | 21 33 20 | 21°57'44 | 8중 0 | 5°51 | 5°33 | 09913 | 5°24 | 9°54 | 9°44 | 13°15 | 25° 5 | 0°39 | 1° 0 | 16°12 | 6°46 | W15 |
| T 16 | 21 37 17 | 22°55'29 | 20° 8 | 6° 8 | 6°40 | 0°52 | 5°26 | 9°54 | 9°42 | 13°13 | 25° 6 | 0°38 | 0°56 | 16°19 | 6°43 | T 16 |
| F 17 | 21 41 14 | 23°53'16 | 2≈25 | 6°32 | 7°46 | 1°31 | 5°29 | 9°54 | 9°40 | 13°12 | 25° 7 | 0°37 | 0°53 | 16°26 | 6°40 | F 17 |
| S 18 | 21 45 10 | 24°51'04 | 14°56 | 7° 4 | 8°53 | 2°10 | 5°32 | 9°54 | 9°37 | 13°11 | 25° 8 | 0°37 | 0°50 | 16°32 | 6°37 | S 18 |
| S 19 | 21 49 7 | 25°48'53 | 27°41 | 7°44 | 9°59 | 2°49 | 5°35 | 9°55 | 9°35 | 13°10 | 25° 8 | 0°D36 | 0°47 | 16°39 | 6°34 | S 19 |
| M20 | 21 53 3 | 26°46'44 | 10) (40 | 8°31 | 11° 5 | 3°27 | 5°38 | 9°55 | 9°33 | 13° 9 | 25° 9 | 0°36 | 0°44 | 16°46 | 6°31 | M20 |
| T 21 | 21 57 0 | 27°44'36 | 23°53 | 9°25 | 12°11 | 4° 6 | 5°42 | 9°56 | 9°31 | 13° 8 | 25°10 | 0°37 | 0°40 | 16°52 | 6°28 | T 21 |
| W22 | 22 0 56 | 28°42'30 | 7 Υ 19 | 10°26 | 13°17 | 4°44 | 5°45 | 9°57 | 9°28 | 13° 7 | 25°11 | 0°37 | 0°37 | 16°59 | 6°25 | W22 |
| T 23 | 22 4 53 | 29°40'25 | 20°58 | 11°34 | 14°22 | 5°22 | 5°49 | 9°57 | 9°26 | 13° 6 | 25°11 | 0°37 | 0°34 | 17° 6 | 6°22 | T 23 |
| F 24 | 22 8 49 | 0 m/38'23 | 4849 | 12°48 | 15°27 | 6° 1 | 5°53 | 9°58 | 9°24 | 13° 5 | 25°12 | 0°R37 | 0°31 | 17°13 | 6°19 | F 24 |
| S 25 | 22 12 46 | 1°36'22 | 18°49 | 14° 8 | 16°32 | 6°39 | 5°57 | 9°59 | 9°22 | 13° 4 | 25°13 | 0°37 | 0°28 | 17°19 | 6°16 | S 25 |
| S 26 | 22 16 43 | 2°34'24 | 2Ⅲ58 | 15°33 | 17°37 | 7°17 | 6° 1 | 10° 0 | 9°20 | 13° 3 | 25°13 | 0°D37 | 0°25 | 17°26 | 6°13 | S 26 |
| M27 | 22 20 39 | 3°32'27 | 17°13 | 17° 4 | 18°42 | 7°55 | 6° 5 | 10° 2 | 9°18 | 13° 2 | 25°14 | 0°37 | 0°21 | 17°33 | 6°11 | M27 |
| T 28 | 22 24 36 | 4°30'32 | 19931 | 18°39 | 19°47 | 8°33 | 6°10 | 10° 3 | 9°15 | 13° 1 | 25°15 | 0°37 | 0°18 | 17°39 | 6° 8 | T 28 |
| W29 | 22 28 32 | 5°28'40 | 15°50 | 20°17 | 20°51 | 9°10 | 6°15 | 10° 4 | 9°13 | 13° 1 | 25°15 | 0°38 | 0°15 | 17°46 | 6° 5 | W29 |
| T 30 | 22 32 29 | 6°26'49 | 0Ω 6 | 22° 0 | 21°55 | 9°48 | 6°20 | 10° 6 | 9°11 | 13° 0 | 25°16 | 0°38 | 0°12 | 17°53 | 6° 2 | T 30 |
| F 31 | 22 36 25 | 7 m 25'00 | 14Ω14 | 23 Ω 45 | 22 ≏ 59 | 10926 | 6 ₹ 25 | 10 才 7 | 9≈ 9 | 12 る 59 | 25 Ⅱ 17 | 0 m 39 | 0 m 9 | 18 才 0 | 6≈ 0 | F 31 |

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SEPTEMBER 1663 GC 00:00 UT

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|--------------|----------------------|-----------------------------|-------------------------|------------------------|--------------------------|----------------|------------------------|--------------------------|---------------|-------------------------|------------------|----------------|----------------|--------------------------------------|-----------------|--------------|
| S 1 | 22 40 22 | 8 m) 23'13 | 28 \Omega 12 | 25 N 33 | 24 ♀ 3 | 1199 3 | 6 ₹ 30 | 10 × 9 | 9°R 7 | 12°R58 | 25 I 17 | 0°R39 | 0Mp 6 | 18 % 6 | 5°R57 | S 1 |
| S 2 | 22 44 18 | 9°21'28 | 11 m)56 | 27°23 | 25° 6 | 11°41 | 6°35 | 10°11 | 9≈ 5 | 12 る 57 | 25°18 | 0 m p39 | 0° 2 | 18°13 | 5≈55 | S 2 |
| M 3 | 22 48 15 | 10°19'44 | 25°23 | 29°14 | 26°10 | 12°18 | 6°41 | 10°13 | 9° 3 | 12°57 | 25°18 | 0°38 | 29 Ω 59 | 18°20 | 5°52 | M 3 |
| T 4 | 22 52 11 | 11°18'02 | 8₽31 | 1 Mp 7 | 27°13 | 12°55 | 6°46 | 10°14 | 9° 1 | 12°56 | 25°19 | 0°37 | 29°56 | 18°26 | 5°50 | T 4 |
| W 5 T 6 | 22 56 8 23 0 5 | 12°16'22 13°14'44 | 21°21 3ML53 | 3° 1 4°55 | 28°15 29°18 | 13°32 14° 9 | 6°52 6°58 | 10°17 10°19 | 9° 0 8°58 | 12°55 12°55 | 25°19 25°20 | 0°35 0°34 | 29°53 29°50 | 18°33 18°40 | 5°47 5°45 | W 5 T 6 |
| T 6 F 7 | 23 0 3 | 13°14'44 14°13'07 | 16°10 | 6°49 | 0ML20 | 14° 46 | 7° 5 | 10°19 10°21 | 8°56 | 12°54 | 25°20 | 0°34 0°32 | 29°30 29°46 | 18°40 18°47 | 5°43 | F 7 |
| S 8 | 23 7 58 | 15°11'32 | 28°14 | 8°44 | 1°22 | 15°23 | 7°11 | 10°23 | 8°54 | 12°54 | 25°20 | 0°31 | 29°43 | 18°53 | 5°40 | S 8 |
| S 9 | 23 11 54 | 16° 9'58 | 10 ~ 11 | 10°38 | 2°24 | 16° 0 | 7°17 | 10°26 | 8°52 | 12°53 | 25°21 | 0°30 | 29°40 | 19° 0 | 5°38 | S 9 |
| M10 | 23 15 51 | 17° 8'26 | 22° 4 | 12°32 | 3°25 | 16°36 | 7°24 | 10°28 | 8°51 | 12°53 | 25°21 | 0°D30 | 29°37 | 19° 7 | 5°36 | M10 |
| T 11 | 23 19 47 | 18° 6'56 | 3 궁 58 | 14°25 | 4°26 | 17°13 | 7°31 | 10°31 | 8°49 | 12°52 | 25°21 | 0°31 | 29°34 | 19°13 | 5°34 | T 11 |
| W12 | 23 23 44 | 19° 5'28 | 15°57 | 16°18 | 5°27 | 17°49 | 7°38 | 10°33 | 8°47 | 12°52 | 25°22 | 0°32 | 29°31 | 19°20 | 5°32 | W12 |
| T 13 | 23 27 40 | 20° 4'01 | 28° 7 | 18°10 | 6°27 | 18°26 | 7°45 | 10°36 | 8°46 | 12°51 | 25°22 | 0°34 | 29°27 | 19°27 | 5°30 | T 13 |
| F 14 S 15 | 23 31 37 23 35 34 | 21° 2'36 22° 1'12 | 10 ≈ 31 23°12 | 20° 2 21°52 | 7°27 8°27 | 19° 2 19°38 | 7°52 7°59 | 10°39 10°42 | 8°44 8°43 | 12°51 12°51 | 25°22 25°22 | 0°35 0°36 | 29°24 29°21 | 19°34 19°40 | 5°28 5°26 | F 14 S 15 |
| | | | | | | | | - | | _ | | | - | | | |
| S 16 | 23 39 30 | 22°59'50 | 6 米 11 | 23°42 | 9°27 | 20°14 | 8° 7 | 10°45 | 8°41 | 12°50 | 25°23 | 0°R36 | 29°18 | 19°47 | 5°24 | S 16 |
| M17 T 18 | 23 43 27 23 47 23 | 23°58'31 24°57'13 | 19°31 3 ⋎ 9 | 25°30 27°18 | 10°26 11°24 | 20°50 21°25 | 8°14 8°22 | 10°48 10°51 | 8°40 8°38 | 12°50 12°50 | 25°23 25°23 | 0°35 0°33 | 29°15 29°11 | 19°54 20° 0 | 5°22 5°21 | M17 T 18 |
| W19 | 23 47 23 23 51 20 | 24 37 13 25°55'57 | 17° 3 | 27 18 29° 5 | 11°24 12°22 | 21 23 22° 1 | 8°30 | 10°55 | 8°37 | 12°50 | 25°23 | 0°29 | 29°11 29°8 | 20° 7 | 5°19 | W19 |
| T 20 | 23 55 16 | 26°54'43 | 1810 | ე <u>ი</u> 51 | 13°20 | 22°37 | 8°38 | 10°58 | 8°35 | 12°50 | 25°23 | 0°26 | 29° 5 | 20°14 | 5°17 | T 20 |
| F 21 | 23 59 13 | 27°53'32 | 15°24 | 2°36 | 14°17 | 23°12 | 8°46 | 11° 1 | 8°34 | 12°49 | 25°23 | 0°22 | 29° 2 | 20°21 | 5°16 | F 21 |
| S 22 | 0 3 9 | 28°52'22 | 29°43 | 4°20 | 15°14 | 23°47 | 8°54 | 11° 5 | 8°33 | 12°49 | 25°24 | 0°19 | 28°59 | 20°27 | 5°14 | S 22 |
| S 23 | 0 7 6 | 29°51'16 | 14 I 1 | 6° 3 | 16°11 | 24°23 | 9° 2 | 11°8 | 8°32 | 12°49 | 25°24 | 0°16 | 28°56 | 20°34 | 5°13 | S 23 |
| M24 | 0 11 3 | 0 ჲ 50'11 | 28°16 | 7°45 | 17° 7 | 24°58 | 9°11 | 11°12 | 8°30 | 12°49 | 25°24 | 0°D15 | 28°52 | 20°41 | 5°12 | M24 |
| T 25 | 0 14 59 | 1°49'09 | 129524 | 9°26 | 18° 2 | 25°33 | 9°20 | 11°16 | 8°29 | 12°D49 | 25°R24 | 0°16 | 28°49 | 20°47 | 5°10 | T 25 |
| W26 | 0 18 56 | 2°48'09 | 26°24 | 11° 6 | 18°57 | 26° 8 | 9°28 | 11°20 | 8°28 | 12°49 | 25°24 | 0°17 | 28°46 | 20°54 | 5° 9 | W26 |
| T 27 | 0 22 52 | 3°47'12 | 10\Omega15 | 12°46 | 19°52 | 26°42 | 9°37 | 11°24 | 8°27 | 12°49 | 25°24 | 0°19 | 28°43 | 21° 1 | 5° 8 5° 7 | T 27 |
| F 28 S 29 | 0 26 49 0 30 45 | 4°46'17 5°45'23 | 23°57 7 m)28 | 14°24 16° 2 | 20°46 21°39 | 27°17 27°51 | 9°46 9°55 | 11°28 11°32 | 8°26 8°25 | 12°49 12°50 | 25°24 25°24 | 0°R20 0°20 | 28°40 28°37 | 21° 8 21°14 | 5° / | F 28 S 29 |
| S 30 | 0 30 43 | 5 45 25 6 Ω 44'33 | 20 mp 48 | 16 2 17 Ω 39 | 21 39 22 M -32 | 28926 | 9 33 10 ×7 5 | 11 32 11 × 736 | 8 ≈ 24 | 12 30 12 3 50 | 25 I I 23 | 0 20 0 m 18 | 28Ω33 | 21 14 21 × ⁷ 21 | 5 | S 30 |
| 3 30 | 0 34 42 | 0==44 33 | 2011 / 48 | 1/==39 | 4411 63 2 | 20ئے20 | 10%, 2 | 117,20 | o ≈ 24 | 12030 | 231123 | פועווט | 200633 | 71%,71 | <i>></i> ≈ > | 3 30 |

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Greg. Calendar

| OCTOBER 1663 GC | 00 00 UT |
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| ULTUKER INNS I-L | 00:00 UT |
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| Day | Sid.t | 0 | D | ğ | · | o [™] | 4 | ħ |)Å(| ¥ | В | ₽. | ß | Ç | k _o | Day |
|------|---------|------------------|----------------|----------------|-----------------|----------------|-----------------|----------------|---------------|----------------|--------|----------------|----------------|-----------------|----------------|------|
| M 1 | 0 38 38 | 7 ≙ 43'44 | 3 ≏ 55 | 19 ≙ 15 | 23 M 24 | 2999 0 | 10 × 14 | 11 ~ 40 | 8°R23 | 12 る 50 | 25°R23 | 0°R14 | 28€30 | 21 × 28 | 5°R 4 | M 1 |
| T 2 | 0 42 35 | 8°42'57 | 16°49 | 20°51 | 24°15 | 29°34 | 10°23 | 11°45 | 8 ≈ 23 | 12°50 | 25Ⅲ23 | 0Mp 9 | 28°27 | 21°34 | 5≈ 3 | T 2 |
| W 3 | 0 46 31 | 9°42'13 | 29°29 | 22°25 | 25° 6 | 0 Ω 8 | 10°33 | 11°49 | 8°22 | 12°50 | 25°23 | 0° 2 | 28°24 | 21°41 | 5° 2 | W 3 |
| T 4 | 0 50 28 | 10°41'30 | 11 M 55 | 23°59 | 25°57 | 0°42 | 10°43 | 11°53 | 8°21 | 12°51 | 25°23 | 29 N 55 | 28°21 | 21°48 | 5° 1 | T 4 |
| F 5 | 0 54 25 | 11°40'49 | 24° 8 | 25°32 | 26°46 | 1°16 | 10°52 | 11°58 | 8°20 | 12°51 | 25°23 | 29°47 | 28°17 | 21°55 | 5° 1 | F 5 |
| S 6 | 0 58 21 | 12°40'11 | 6 ₹ 11 | 27° 5 | 27°35 | 1°49 | 11° 2 | 12° 3 | 8°20 | 12°51 | 25°22 | 29°41 | 28°14 | 22° 1 | 5° 0 | S 6 |
| S 7 | 1 2 18 | 13°39'34 | 18° 6 | 28°36 | 28°23 | 2°22 | 11°12 | 12° 7 | 8°19 | 12°52 | 25°22 | 29°35 | 28°11 | 22° 8 | 5° 0 | S 7 |
| M 8 | 1 6 14 | 14°38'59 | 29°57 | 0 ™ 7 | 29°10 | 2°56 | 11°22 | 12°12 | 8°19 | 12°52 | 25°22 | 29°32 | 28° 8 | 22°15 | 4°59 | M 8 |
| T 9 | 1 10 11 | 15°38'25 | 11 る 49 | 1°37 | 29°56 | 3°29 | 11°33 | 12°17 | 8°18 | 12°53 | 25°22 | 29°D31 | 28° 5 | 22°21 | 4°59 | T 9 |
| W10 | 1 14 7 | 16°37'54 | 23°46 | 3° 7 | 0 ∡ 742 | 4° 2 | 11°43 | 12°22 | 8°18 | 12°53 | 25°21 | 29°31 | 28° 2 | 22°28 | 4°59 | W10 |
| T 11 | 1 18 4 | 17°37'24 | 5≈54 | 4°36 | 1°26 | 4°35 | 11°53 | 12°27 | 8°17 | 12°54 | 25°21 | 29°32 | 27°58 | 22°35 | 4°58 | T 11 |
| F 12 | 1 22 0 | 18°36'56 | 18°18 | 6° 4 | 2°10 | 5° 7 | 12° 4 | 12°32 | 8°17 | 12°54 | 25°21 | 29°33 | 27°55 | 22°41 | 4°58 | F 12 |
| S 13 | 1 25 57 | 19°36'30 | 1 ∺ 2 | 7°31 | 2°52 | 5°40 | 12°14 | 12°37 | 8°17 | 12°55 | 25°20 | 29°R34 | 27°52 | 22°48 | 4°58 | S 13 |
| S 14 | 1 29 54 | 20°36'06 | 14° 9 | 8°57 | 3°34 | 6°12 | 12°25 | 12°42 | 8°17 | 12°55 | 25°20 | 29°33 | 27°49 | 22°55 | 4°D58 | S 14 |
| M15 | 1 33 50 | 21°35'43 | 27°41 | 10°23 | 4°14 | 6°44 | 12°36 | 12°47 | 8°16 | 12°56 | 25°19 | 29°30 | 27°46 | 23° 2 | 4°58 | M15 |
| T 16 | 1 37 47 | 22°35'22 | 11 Y 39 | 11°48 | 4°53 | 7°16 | 12°47 | 12°52 | 8°16 | 12°57 | 25°19 | 29°24 | 27°42 | 23° 8 | 4°58 | T 16 |
| W17 | 1 41 43 | 23°35'04 | 25°58 | 13°12 | 5°31 | 7°48 | 12°58 | 12°58 | 8°16 | 12°58 | 25°19 | 29°17 | 27°39 | 23°15 | 4°58 | W17 |
| T 18 | 1 45 40 | 24°34'47 | 10 8 33 | 14°35 | 6° 8 | 8°20 | 13° 9 | 13° 3 | 8°D16 | 12°58 | 25°18 | 29° 8 | 27°36 | 23°22 | 4°59 | T 18 |
| F 19 | 1 49 36 | 25°34'32 | 25°16 | 15°58 | 6°44 | 8°51 | 13°20 | 13° 9 | 8°16 | 12°59 | 25°18 | 28°59 | 27°33 | 23°28 | 4°59 | F 19 |
| S 20 | 1 53 33 | 26°34'20 | 10耳 1 | 17°19 | 7°18 | 9°23 | 13°31 | 13°14 | 8°16 | 13° 0 | 25°17 | 28°51 | 27°30 | 23°35 | 4°59 | S 20 |
| S 21 | 1 57 29 | 27°34'10 | 24°39 | 18°40 | 7°51 | 9°54 | 13°43 | 13°20 | 8°16 | 13° 1 | 25°16 | 28°45 | 27°27 | 23°42 | 5° 0 | S 21 |
| M22 | 2 1 26 | 28°34'02 | 999 5 | 19°59 | 8°22 | 10°25 | 13°54 | 13°25 | 8°16 | 13° 2 | 25°16 | 28°41 | 27°23 | 23°49 | 5° 0 | M22 |
| T 23 | 2 5 23 | 29°33'56 | 23°16 | 21°17 | 8°52 | 10°56 | 14° 6 | 13°31 | 8°17 | 13° 3 | 25°15 | 28°39 | 27°20 | 23°55 | 5° 1 | T 23 |
| W24 | 2 9 19 | 0 M 33'53 | $7\Omega 10$ | 22°34 | 9°21 | 11°26 | 14°17 | 13°37 | 8°17 | 13° 4 | 25°15 | 28°D39 | 27°17 | 24° 2 | 5° 2 | W24 |
| T 25 | 2 13 16 | 1°33'52 | 20°47 | 23°49 | 9°48 | 11°57 | 14°29 | 13°43 | 8°17 | 13° 5 | 25°14 | 28°40 | 27°14 | 24° 9 | 5° 2 | T 25 |
| F 26 | 2 17 12 | 2°33'53 | 4 Mp 10 | 25° 3 | 10°13 | 12°27 | 14°40 | 13°48 | 8°18 | 13° 6 | 25°13 | 28°R40 | 27°11 | 24°15 | 5° 3 | F 26 |
| S 27 | 2 21 9 | 3°33'56 | 17°19 | 26°16 | 10°37 | 12°57 | 14°52 | 13°54 | 8°18 | 13° 7 | 25°13 | 28°38 | 27° 8 | 24°22 | 5° 4 | S 27 |
| S 28 | 2 25 5 | 4°34'01 | 0 ჲ 16 | 27°26 | 10°58 | 13°27 | 15° 4 | 14° 0 | 8°19 | 13° 8 | 25°12 | 28°34 | 27° 4 | 24°29 | 5° 5 | S 28 |
| M29 | 2 29 2 | 5°34'08 | 13° 2 | 28°35 | 11°18 | 13°56 | 15°16 | 14° 6 | 8°19 | 13° 9 | 25°11 | 28°27 | 27° 1 | 24°36 | 5° 6 | M29 |
| T 30 | 2 32 58 | 6°34'17 | 25°38 | 29°41 | 11°36 | 14°26 | 15°28 | 14°12 | 8°20 | 13°10 | 25°11 | 28°17 | 26°58 | 24°42 | 5° 7 | T 30 |
| W31 | 2 36 55 | 7 M 34'28 | 8 M 4 | 0 ∡ 745 | 11 × 752 | 14 Ω 55 | 15 ∡ 140 | 14 × 18 | 8≈20 | 13 る 11 | 25耳10 | 28 N 5 | 26 Ω 55 | 24 × 749 | 5≈ 8 | W31 |

Delta T = 33.85 sec

NOVEMBER 1663 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)វ(| ¥ | В | n | Ω | ţ | Q K | Day |
|------|---------|-------------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|------|----------------|----------------|-----------------|----------------|-----------------|--------|------|
| T 1 | 2 40 52 | 8 M .34'41 | 20 M 19 | 1 ₹ 146 | 12 ₹ 6 | 15 Ω 24 | 15 ₹ 52 | 14 × ⁷ 25 | 8≈21 | 13 る 12 | 25°R 9 | 27°R52 | 26€52 | 24 × 756 | 5≈ 9 | T 1 |
| F 2 | 2 44 48 | 9°34'56 | 2 ₹ 26 | 2°43 | 12°18 | 15°53 | 16° 5 | 14°31 | 8°22 | 13°13 | 25 II 8 | 27 \O 38 | 26°48 | 25° 2 | 5°11 | F 2 |
| S 3 | 2 48 45 | 10°35'12 | 14°25 | 3°38 | 12°28 | 16°21 | 16°17 | 14°37 | 8°22 | 13°15 | 25° 8 | 27°26 | 26°45 | 25° 9 | 5°12 | S 3 |
| S 4 | 2 52 41 | 11°35'30 | 26°17 | 4°28 | 12°36 | 16°50 | 16°29 | 14°43 | 8°23 | 13°16 | 25° 7 | 27°15 | 26°42 | 25°16 | 5°13 | S 4 |
| M 5 | 2 56 38 | 12°35'50 | 8 වි | 5°14 | 12°41 | 17°18 | 16°42 | 14°50 | 8°24 | 13°17 | 25° 6 | 27° 8 | 26°39 | 25°22 | 5°15 | M 5 |
| T 6 | 3 0 34 | 13°36'11 | 19°56 | 5°54 | 12°44 | 17°46 | 16°54 | 14°56 | 8°25 | 13°19 | 25° 5 | 27° 3 | 26°36 | 25°29 | 5°16 | T 6 |
| W 7 | 3 431 | 14°36'34 | 1≈50 | 6°30 | 12°R45 | 18°13 | 17° 7 | 15° 2 | 8°26 | 13°20 | 25° 4 | 27° 0 | 26°33 | 25°36 | 5°18 | W 7 |
| T 8 | 3 8 27 | 15°36'58 | 13°54 | 6°59 | 12°43 | 18°41 | 17°19 | 15° 9 | 8°27 | 13°21 | 25° 3 | 27°D 0 | 26°29 | 25°43 | 5°20 | T 8 |
| F 9 | 3 12 24 | 16°37'23 | 26°13 | 7°21 | 12°38 | 19° 8 | 17°32 | 15°15 | 8°28 | 13°23 | 25° 3 | 27°R 0 | 26°26 | 25°49 | 5°21 | F 9 |
| S 10 | 3 16 21 | 17°37'50 | 8 ¥ 53 | 7°35 | 12°32 | 19°34 | 17°45 | 15°22 | 8°29 | 13°24 | 25° 2 | 26°59 | 26°23 | 25°56 | 5°23 | S 10 |
| S 11 | 3 20 17 | 18°38'18 | 21°58 | 7°R41 | 12°23 | 20° 1 | 17°57 | 15°28 | 8°31 | 13°26 | 25° 1 | 26°57 | 26°20 | 26° 3 | 5°25 | S 11 |
| M12 | 3 24 14 | 19°38'47 | 5 Ƴ 31 | 7°38 | 12°11 | 20°27 | 18°10 | 15°35 | 8°32 | 13°27 | 25° 0 | 26°53 | 26°17 | 26° 9 | 5°27 | M12 |
| T 13 | 3 28 10 | 20°39'18 | 19°35 | 7°26 | 11°57 | 20°53 | 18°23 | 15°41 | 8°33 | 13°29 | 24°59 | 26°46 | 26°14 | 26°16 | 5°29 | T 13 |
| W14 | 3 32 7 | 21°39'50 | 4 8 5 | 7° 3 | 11°40 | 21°19 | 18°36 | 15°48 | 8°34 | 13°30 | 24°58 | 26°36 | 26°10 | 26°23 | 5°31 | W14 |
| T 15 | 3 36 3 | 22°40'24 | 18°58 | 6°29 | 11°21 | 21°45 | 18°49 | 15°55 | 8°36 | 13°32 | 24°57 | 26°25 | 26° 7 | 26°30 | 5°33 | T 15 |
| F 16 | 3 40 0 | 23°40'59 | 4 Ⅱ 5 | 5°46 | 11° 0 | 22°10 | 19° 2 | 16° 1 | 8°37 | 13°34 | 24°56 | 26°13 | 26° 4 | 26°36 | 5°35 | F 16 |
| S 17 | 3 43 56 | 24°41'35 | 19°14 | 4°51 | 10°37 | 22°35 | 19°15 | 16° 8 | 8°39 | 13°35 | 24°55 | 26° 2 | 26° 1 | 26°43 | 5°38 | S 17 |
| S 18 | 3 47 53 | 25°42'14 | 49517 | 3°48 | 10°11 | 22°59 | 19°28 | 16°15 | 8°40 | 13°37 | 24°54 | 25°53 | 25°58 | 26°50 | 5°40 | S 18 |
| M19 | 3 51 50 | 26°42'53 | 19° 3 | 2°37 | 9°44 | 23°24 | 19°41 | 16°22 | 8°42 | 13°38 | 24°53 | 25°47 | 25°54 | 26°56 | 5°42 | M19 |
| T 20 | 3 55 46 | 27°43'35 | 3 Ω 27 | 1°19 | 9°14 | 23°48 | 19°54 | 16°28 | 8°43 | 13°40 | 24°52 | 25°44 | 25°51 | 27° 3 | 5°45 | T 20 |
| W21 | 3 59 43 | 28°44'18 | 17°28 | 29M58 | 8°44 | 24°11 | 20° 8 | 16°35 | 8°45 | 13°42 | 24°51 | 25°43 | 25°48 | 27°10 | 5°47 | W21 |
| T 22 | 4 3 39 | 29°45'03 | 1 Mp 6 | 28°36 | 8°11 | 24°35 | 20°21 | 16°42 | 8°47 | 13°44 | 24°50 | 25°43 | 25°45 | 27°16 | 5°50 | T 22 |
| F 23 | 4 7 36 | 0 √ 45'49 | 14°22 | 27°15 | 7°38 | 24°58 | 20°34 | 16°49 | 8°48 | 13°45 | 24°49 | 25°42 | 25°42 | 27°23 | 5°52 | F 23 |
| S 24 | 4 11 32 | 1°46'37 | 27°20 | 25°59 | 7° 3 | 25°21 | 20°47 | 16°56 | 8°50 | 13°47 | 24°48 | 25°40 | 25°39 | 27°30 | 5°55 | S 24 |
| S 25 | 4 15 29 | 2°47'26 | 10 ♀ 2 | 24°50 | 6°28 | 25°43 | 21° 1 | 17° 3 | 8°52 | 13°49 | 24°47 | 25°36 | 25°35 | 27°37 | 5°58 | S 25 |
| M26 | 4 19 25 | 3°48'17 | 22°32 | 23°49 | 5°52 | 26° 5 | 21°14 | 17°10 | 8°54 | 13°51 | 24°45 | 25°28 | 25°32 | 27°43 | 6° 0 | M26 |
| T 27 | 4 23 22 | 4°49'09 | 4 M .52 | 22°58 | 5°15 | 26°26 | 21°28 | 17°17 | 8°56 | 13°53 | 24°44 | 25°17 | 25°29 | 27°50 | 6° 3 | T 27 |
| W28 | 4 27 19 | 5°50'03 | 17° 4 | 22°19 | 4°39 | 26°48 | 21°41 | 17°24 | 8°58 | 13°55 | 24°43 | 25° 4 | 25°26 | 27°57 | 6° 6 | W28 |
| T 29 | 4 31 15 | 6°50'57 | 29° 9 | 21°51 | 4° 3 | 27° 9 | 21°55 | 17°31 | 9° 0 | 13°56 | 24°42 | 24°50 | 25°23 | 28° 3 | 6° 9 | T 29 |
| F 30 | 4 35 12 | 7 . ₹51'53 | 11 才 7 | 21 M 34 | 3 ,₹ 27 | 27 Ω 29 | 22 × 8 | 17 . ₹38 | 9≈ 2 | 13 る 58 | 24∏41 | 24 Ω 35 | 25 Ω 19 | 28 × 10 | 6≈12 | F 30 |

Delta T = 33.79 sec

Greg. Calendar

| DECEMBER 1663 GC | 00:00 UT |
|------------------|----------|
| DECEMBER 1003 AC | 00100 UI |

| Day | Sid.t | \odot | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | В | v | Ω | Ç | Š. | Day |
|------|---------|------------------|-----------------|----------------|----------------|-----------------|----------------|-----------------|-------|----------------|-----------------|----------------|----------------|----------------|------|------|
| S 1 | 4 39 8 | 8 × 52'50 | 23🗷 1 | 21°D29 | 2°R52 | 27 \O 49 | 22 × 22 | 17 ×7 45 | 9≈ 4 | 14 る 0 | 24°R40 | 24°R22 | 25 Ω 16 | 28 × 17 | 6≈15 | S 1 |
| S 2 | 4 43 5 | 9°53'48 | 4 궁 51 | 21 M 34 | 2 √ 18 | 28° 9 | 22°35 | 17°52 | 9° 6 | 14° 2 | 24耳39 | 24 Ω 10 | 25°13 | 28°23 | 6°18 | S 2 |
| M 3 | 4 47 1 | 10°54'47 | 16°40 | 21°48 | 1°45 | 28°28 | 22°49 | 17°59 | 9° 8 | 14° 4 | 24°38 | 24° 1 | 25°10 | 28°30 | 6°21 | M 3 |
| T 4 | 4 50 58 | 11°55'47 | 28°30 | 22°12 | 1°13 | 28°47 | 23° 3 | 18° 6 | 9°11 | 14° 6 | 24°36 | 23°55 | 25° 7 | 28°37 | 6°24 | T 4 |
| W 5 | 4 54 54 | 12°56'47 | 10≈24 | 22°43 | 0°43 | 29° 5 | 23°16 | 18°13 | 9°13 | 14° 8 | 24°35 | 23°52 | 25° 4 | 28°44 | 6°28 | W 5 |
| T 6 | 4 58 51 | 13°57'48 | 22°26 | 23°22 | 0°14 | 29°23 | 23°30 | 18°20 | 9°15 | 14°10 | 24°34 | 23°D51 | 25° 0 | 28°50 | 6°31 | T 6 |
| F 7 | 5 2 48 | 14°58'49 | 4) (42 | 24° 7 | 29 M 48 | 29°41 | 23°44 | 18°27 | 9°17 | 14°12 | 24°33 | 23°52 | 24°57 | 28°57 | 6°34 | F 7 |
| S 8 | 5 6 44 | 15°59'51 | 17°17 | 24°58 | 29°23 | 29°58 | 23°57 | 18°34 | 9°20 | 14°14 | 24°32 | 23°R52 | 24°54 | 29° 4 | 6°38 | S 8 |
| S 9 | 5 10 41 | 17° 0'54 | 0 Υ 15 | 25°54 | 29° 1 | 0 m p 14 | 24°11 | 18°41 | 9°22 | 14°16 | 24°30 | 23°51 | 24°51 | 29°10 | 6°41 | S 9 |
| M10 | 5 14 37 | 18° 1'56 | 13°40 | 26°54 | 28°41 | 0°30 | 24°25 | 18°48 | 9°25 | 14°18 | 24°29 | 23°48 | 24°48 | 29°17 | 6°45 | M10 |
| T 11 | 5 18 34 | 19° 3'00 | 27°36 | 27°58 | 28°23 | 0°46 | 24°38 | 18°55 | 9°27 | 14°21 | 24°28 | 23°43 | 24°45 | 29°24 | 6°48 | T 11 |
| W12 | 5 22 30 | 20° 4'04 | 128 2 | 29° 5 | 28° 7 | 1° 1 | 24°52 | 19° 2 | 9°30 | 14°23 | 24°27 | 23°35 | 24°41 | 29°30 | 6°52 | W12 |
| T 13 | 5 26 27 | 21° 5'08 | 26°54 | 0 才 15 | 27°54 | 1°15 | 25° 6 | 19° 9 | 9°32 | 14°25 | 24°26 | 23°26 | 24°38 | 29°37 | 6°55 | T 13 |
| F 14 | 5 30 23 | 22° 6'13 | 12 I I 6 | 1°27 | 27°44 | 1°30 | 25°20 | 19°16 | 9°35 | 14°27 | 24°25 | 23°16 | 24°35 | 29°44 | 6°59 | F 14 |
| S 15 | 5 34 20 | 23° 7'18 | 27°27 | 2°42 | 27°36 | 1°43 | 25°33 | 19°23 | 9°38 | 14°29 | 24°23 | 23° 7 | 24°32 | 29°51 | 7° 3 | S 15 |
| S 16 | 5 38 17 | 24° 8'24 | 129544 | 3°59 | 27°30 | 1°56 | 25°47 | 19°30 | 9°40 | 14°31 | 24°22 | 22°59 | 24°29 | 29°57 | 7° 6 | S 16 |
| M17 | 5 42 13 | 25° 9'31 | 27°48 | 5°18 | 27°27 | 2° 9 | 26° 1 | 19°37 | 9°43 | 14°33 | 24°21 | 22°54 | 24°25 | 0중 4 | 7°10 | M17 |
| T 18 | 5 46 10 | 26°10'38 | 12 Ω 31 | 6°38 | 27°D27 | 2°20 | 26°15 | 19°44 | 9°46 | 14°36 | 24°20 | 22°52 | 24°22 | 0°11 | 7°14 | T 18 |
| W19 | 5 50 6 | 27°11'45 | 26°47 | 7°59 | 27°28 | 2°32 | 26°29 | 19°51 | 9°48 | 14°38 | 24°19 | 22°D52 | 24°19 | 0°17 | 7°18 | W19 |
| T 20 | 5 54 3 | 28°12'54 | 10 m 36 | 9°21 | 27°33 | 2°43 | 26°42 | 19°58 | 9°51 | 14°40 | 24°17 | 22°52 | 24°16 | 0°24 | 7°22 | T 20 |
| F 21 | 5 57 59 | 29°14'03 | 23°57 | 10°45 | 27°39 | 2°53 | 26°56 | 20° 5 | 9°54 | 14°42 | 24°16 | 22°R53 | 24°13 | 0°31 | 7°26 | F 21 |
| S 22 | 6 1 56 | 0 ප 15'12 | 6 ≏ 56 | 12° 9 | 27°48 | 3° 2 | 27°10 | 20°12 | 9°57 | 14°44 | 24°15 | 22°53 | 24°10 | 0°37 | 7°30 | S 22 |
| S 23 | 6 5 52 | 1°16'22 | 19°34 | 13°35 | 28° 0 | 3°11 | 27°24 | 20°19 | 10° 0 | 14°47 | 24°14 | 22°51 | 24° 6 | 0°44 | 7°34 | S 23 |
| M24 | 6 9 49 | 2°17'33 | 1 M 57 | 15° 1 | 28°13 | 3°19 | 27°37 | 20°26 | 10° 3 | 14°49 | 24°13 | 22°47 | 24° 3 | 0°51 | 7°38 | M24 |
| T 25 | 6 13 46 | 3°18'44 | 14° 8 | 16°27 | 28°29 | 3°27 | 27°51 | 20°33 | 10° 6 | 14°51 | 24°11 | 22°41 | 24° 0 | 0°58 | 7°42 | T 25 |
| W26 | 6 17 42 | 4°19'55 | 26°11 | 17°55 | 28°46 | 3°34 | 28° 5 | 20°40 | 10° 9 | 14°53 | 24°10 | 22°32 | 23°57 | 1° 4 | 7°46 | W26 |
| T 27 | 6 21 39 | 5°21'07 | 8 × 7 7 | 19°23 | 29° 6 | 3°40 | 28°19 | 20°47 | 10°12 | 14°56 | 24° 9 | 22°23 | 23°54 | 1°11 | 7°50 | T 27 |
| F 28 | 6 25 35 | 6°22'18 | 20° 0 | 20°51 | 29°28 | 3°46 | 28°33 | 20°54 | 10°15 | 14°58 | 24° 8 | 22°13 | 23°51 | 1°18 | 7°54 | F 28 |
| S 29 | 6 29 32 | 7°23'30 | 1 る 50 | 22°20 | 29°51 | 3°51 | 28°46 | 21° 1 | 10°18 | 15° 0 | 24° 7 | 22° 4 | 23°47 | 1°24 | 7°58 | S 29 |
| S 30 | 6 33 28 | 8°24'43 | 13°40 | 23°50 | 0 才 16 | 3°55 | 29° 0 | 21° 8 | 10°21 | 1 <u>5</u> ° 2 | 24° 6 | 21°57 | 23°44 | <u>1°31</u> | 8° 2 | S 30 |
| M31 | 6 37 25 | 9 ප 25'54 | 25 る 32 | 25 ₹ 20 | 0 , 743 | 3 m 59 | 29 х 14 | 21 ~ 15 | 10≈24 | 15 る 5 | 24 I I 4 | 21 Q 51 | 23 Ω 41 | 1 る 38 | 8≈ 7 | M31 |

Delta T = 33.73 sec

JANUARY 1664 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| 卉 | Р | ß | v | Ç | ç | Day |
|-------------|--------------------|----------------------|------------------------|------------------------|-----------------------------|----------------|-----------------------|-----------------------------|----------------|----------------|------------------------|-------------------------|----------------|---------------|--------------|-------------|
| T 1 | 6 41 21 | 10 ට 27'06 | 7≈26 | 26 × 750 | 1 × 12 | 4 Mp 1 | 29 × 127 | 21 × 122 | 10≈27 | 15 ට 7 | 24°R 3 | 21°R48 | 23 N 38 | 1 云 44 | 8≈11 | T 1 |
| W 2 T 3 | 6 45 18 | 11°28'18 | 19°26 | 28°21 | 1°42 | 4° 3 4° 5 | 29°41 | 21°28 | 10°30 10°33 | 15° 9 15°11 | 24 I 2 24° 1 | 21°D46 | 23°35 | 1°51 | 8°15 | W 2 |
| T 3 F 4 | 6 49 15 6 53 11 | 12°29'29 13°30'40 | 1 米 35 13°55 | 29°52 1 る 24 | 2°14 2°47 | 4° 5 4°R 5 | 29°55 0 る 8 | 21°35 21°42 | 10°33 10°36 | 15°11 15°14 | 24° 1 24° 0 | 21 Ω 47 21°48 | 23°31 23°28 | 1°58 2° 4 | 8°20 8°24 | T 3 F 4 |
| S 5 | 6 57 8 | 14°31'50 | 26°30 | 2°56 | 3°22 | 4° 5 | 0°22 | 21°49 | 10°40 | 15°16 | 23°59 | 21°50 | 23°25 | 2°11 | 8°28 | S 5 |
| S 6 | 7 1 4 | 15°32'59 | 9 Υ 25 | 4°29 | 3°58 | 4° 4 | 0°36 | 21°55 | 10°43 | 15°18 | 23°58 | 21°R51 | 23°22 | 2°18 | 8°33 | S 6 |
| M 7 | 7 5 1 | 16°34'08 | 22°43 | 6° 2 | 4°35 | 4° 2 | 0°49 | 22° 2 | 10°46 | 15°20 | 23°57 | 21°51 | 23°19 | 2°25 | 8°37 | M 7 |
| T 8 | 7 8 57 | 17°35'17 | 6 8 27 | 7°35 | 5°14 | 4° 0 | 1° 3 | 22° 9 | 10°49 | 15°23 | 23°56 | 21°50 | 23°16 | 2°31 | 8°41 | T 8 |
| W 9 | 7 12 54 | 18°36'25 | 20°38 | 9° 9 | 5°54 | 3°56 | 1°16 | 22°15 | 10°53 | 15°25 | 23°54 | 21°47 | 23°12 | 2°38 | 8°46 | W 9 |
| T 10 | 7 16 50 | 19°37'32 | 5 Ⅱ 14 | 10°44 | 6°35 | 3°52 | 1°30 | 22°22 | 10°56 | 15°27 | 23°53 | 21°42 | 23° 9 | 2°45 | 8°50 | T 10 |
| F 11 | 7 20 47 | 20°38'38 | 20°11 | 12°19 | 7°17 | 3°47 | 1°43 | 22°28 | 10°59 | 15°30 | 23°52 | 21°38 | 23° 6 | 2°51 | 8°55 | F 11 |
| S 12 | 7 24 44 | 21°39'44 | 5922 | 13°54 | 8° 1 | 3°42 | 1°57 | 22°35 | 11° 3 | 15°32 | 23°51 | 21°33 | 23° 3 | 2°58 | 8°59 | S 12 |
| S 13 | 7 28 40 | 22°40'49 | 20°36 | 15°30 | 8°45 | 3°35 | 2°10 | 22°41 | 11° 6 | 15°34 | 23°50 | 21°30 | 23° 0 | 3° 5 | 9° 4 | S 13 |
| M14 | 7 32 37 | 23°41'54 | 5 Ω 43 | 17° 7 | 9°30 | 3°28 | 2°23 | 22°48 | 11° 9 | 15°36 | 23°49 | 21°27 | 22°57 | 3°11 | 9° 8 | M14 |
| T 15 | 7 36 33 | 24°42'58 | 20°34 | 18°44 | 10°17 | 3°20 | 2°37 | 22°54 | 11°13 | 15°39 | 23°48 | 21°D27 | 22°53 | 3°18 | 9°13 | T 15 |
| W16 T 17 | 7 40 30 7 44 26 | 25°44'01 26°45'04 | 5 Mp 2 19° 3 | 20°21 21°59 | 11° 4 11°52 | 3°11 3° 1 | 2°50 3° 3 | 23° 0 23° 7 | 11°16 11°20 | 15°41 15°43 | 23°47 23°46 | 21°27 21°28 | 22°50 22°47 | 3°25 3°31 | 9°18 9°22 | W16 T 17 |
| F 18 | 7 44 26 | 26°45'04 27°46'06 | 2 <u>0</u> 37 | 21°39 23°38 | 11°52 12°41 | 3° 1 2°51 | 3°16 | 23°13 | 11°23 | 15°45 | 23°45 | 21°28 21°30 | 22°47 22°44 | 3°38 | 9°27 | F 18 |
| S 19 | 7 52 19 | 28°47'08 | 15°44 | 25°17 | 12 41 13°31 | 2°39 | 3°30 | 23°19 | 11°26 | 15°48 | 23°44 | 21°31 | 22°41 | 3°45 | 9°31 | S 19 |
| S 20 | 7 56 16 | 29°48'09 | 28°28 | 26°57 | 14°22 | 2°27 | 3°43 | 23°25 | 11°30 | 15°50 | 23°43 | 21°R32 | 22°37 | 3°52 | 9°36 | S 20 |
| M21 | 8 0 13 | 0≈49'10 | 10M 52 | 28°38 | 15°13 | 2°15 | 3°56 | 23°31 | 11°33 | 15°52 | 23°42 | 21°32 | 22°34 | 3°58 | 9°41 | M21 |
| T 22 | 8 4 9 | 1°50'10 | 23° 2 | 0≈19 | 16° 5 | 2° 1 | 4° 9 | 23°37 | 11°37 | 15°54 | 23°42 | 21°30 | 22°31 | 4° 5 | 9°45 | T 22 |
| W23 | 8 8 6 | 2°51'10 | 5 √ 1 | 2° 1 | 16°58 | 1°47 | 4°22 | 23°43 | 11°40 | 15°56 | 23°41 | 21°28 | 22°28 | 4°12 | 9°50 | W23 |
| T 24 | 8 12 2 | 3°52'09 | 16°53 | 3°43 | 17°51 | 1°31 | 4°35 | 23°49 | 11°44 | 15°59 | 23°40 | 21°25 | 22°25 | 4°18 | 9°54 | T 24 |
| F 25 | 8 15 59 | 4°53'07 | 28°43 | 5°27 | 18°46 | 1°16 | 4°48 | 23°55 | 11°47 | 16° 1 | 23°39 | 21°22 | 22°22 | 4°25 | 9°59 | F 25 |
| S 26 | 8 19 55 | 5°54'05 | 10 る 32 | 7°11 | 19°40 | 0°59 | 5° 1 | 24° 1 | 11°51 | 16° 3 | 23°38 | 21°20 | 22°18 | 4°32 | 10° 4 | S 26 |
| S 27 | 8 23 52 | 6°55'01 | 22°25 | 8°55 | 20°36 | 0°42 | 5°13 | 24° 7 | 11°54 | 16° 5 | 23°37 | 21°18 | 22°15 | 4°38 | 10°8 | S 27 |
| M28 | 8 27 49 | 7°55'57 | 4≈22 | 10°40 | 21°32 | 0°24 | 5°26 | 24°13 | 11°58 | 16° 7 | 23°36 | 21°16 | 22°12 | 4°45 | 10°13 | M28 |
| T 29 | 8 31 45 | 8°56'51 | 16°26 | 12°26 | 22°28 | 0° 5 | 5°39 | 24°18 | 12° 1 | 16°10 | 23°36 | 21°D16 | 22° 9 | 4°52 | 10°18 | T 29 |
| W30 | 8 35 42 | 9°57'44 | 28°38 | 14°12 | 23°25 | 29€46 | 5°51 | 24°24 | 12° 4 | 16°12 | 23°35 | 21°16 | 22° 6 | 4°58 | 10°22 | W30 |
| T 31 | 8 39 38 | 10≈58'36 | 11 米 0 | 15≈59 | 24 × ⁷ 23 | 29 N 26 | 6 ප 4 | 24 × ⁷ 30 | 12≈ 8 | 16 ਰ 14 | 23 Ⅱ 34 | 21 \O 16 | 22 N 3 | 5ਰ 5 | 10≈27 | T 31 |

Delta T = 33.68 sec

Greg. Calendar

FEBRUARY 1664 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ | ᠾ | ¥ | Р | r | Ω | Ç | 8 | Day |
|------|----------|-------------------|-----------------|-----------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|---------------|-------|------|
| F 1 | 8 43 35 | 11≈59'26 | 23) 34 | 17 ≈ 46 | 25 × ⁷ 21 | 29°R 6 | 6 ට 16 | 24 × 35 | 12≈11 | 16 궁 16 | 23°R33 | 21 Ω 17 | 21\$\Omega59\$ | 5 る 12 | 10≈32 | F 1 |
| S 2 | 8 47 31 | 13° 0'15 | 6 Υ 21 | 19°34 | 26°19 | 28 Ω 45 | 6°29 | 24°41 | 12°15 | 16°18 | 23 II 33 | 21°18 | 21°56 | 5°18 | 10°36 | S 2 |
| S 3 | 8 51 28 | 14° 1'03 | 19°24 | 21°22 | 27°18 | 28°24 | 6°41 | 24°46 | 12°18 | 16°20 | 23°32 | 21°19 | 21°53 | 5°25 | 10°41 | S 3 |
| M 4 | 8 55 24 | 15° 1'49 | 2 8 44 | 23°11 | 28°17 | 28° 2 | 6°54 | 24°52 | 12°22 | 16°22 | 23°31 | 21°19 | 21°50 | 5°32 | 10°46 | M 4 |
| T 5 | 8 59 21 | 16° 2'33 | 16°23 | 24°59 | 29°17 | 27°40 | 7° 6 | 24°57 | 12°25 | 16°24 | 23°30 | 21°R19 | 21°47 | 5°39 | 10°50 | T 5 |
| W 6 | 9 3 17 | 17° 3'16 | 0 Ⅲ 21 | 26°48 | 0 궁 17 | 27°18 | 7°18 | 25° 2 | 12°29 | 16°26 | 23°30 | 21°19 | 21°43 | 5°45 | 10°55 | W 6 |
| T 7 | 9 7 14 | 18° 3'57 | 14°38 | 28°36 | 1°18 | 26°55 | 7°30 | 25° 7 | 12°32 | 16°28 | 23°29 | 21°19 | 21°40 | 5°52 | 11° 0 | T 7 |
| F 8 | 9 11 11 | 19° 4'37 | 29°12 | 0 ∺ 24 | 2°19 | 26°32 | 7°42 | 25°12 | 12°36 | 16°30 | 23°29 | 21°19 | 21°37 | 5°59 | 11° 4 | F 8 |
| S 9 | 9 15 7 | 20° 5'15 | 139558 | 2°11 | 3°20 | 26° 8 | 7°54 | 25°17 | 12°39 | 16°32 | 23°28 | 21°19 | 21°34 | 6° 5 | 11° 9 | S 9 |
| S 10 | 9 19 4 | 21° 5'51 | 28°50 | 3°58 | 4°21 | 25°45 | 8° 6 | 25°22 | 12°43 | 16°34 | 23°27 | 21°D18 | 21°31 | 6°12 | 11°13 | S 10 |
| M11 | 9 23 0 | 22° 6'25 | 13 Ω 41 | 5°43 | 5°23 | 25°21 | 8°18 | 25°27 | 12°46 | 16°36 | 23°27 | 21°R18 | 21°28 | 6°19 | 11°18 | M11 |
| T 12 | 9 26 57 | 23° 6'58 | 28°22 | 7°26 | 6°26 | 24°57 | 8°30 | 25°32 | 12°50 | 16°38 | 23°26 | 21°18 | 21°24 | 6°25 | 11°23 | T 12 |
| W13 | 9 30 53 | 24° 7'30 | 12 M)48 | 9° 7 | 7°28 | 24°33 | 8°41 | 25°37 | 12°53 | 16°40 | 23°26 | 21°18 | 21°21 | 6°32 | 11°27 | W13 |
| T 14 | 9 34 50 | 25° 7'59 | 26°52 | 10°46 | 8°31 | 24°10 | 8°53 | 25°42 | 12°57 | 16°42 | 23°25 | 21°18 | 21°18 | 6°39 | 11°32 | T 14 |
| F 15 | 9 38 46 | 26° 8'28 | 10 ≏ 32 | 12°21 | 9°34 | 23°46 | 9° 4 | 25°46 | 13° 0 | 16°44 | 23°25 | 21°17 | 21°15 | 6°45 | 11°36 | F 15 |
| S 16 | 9 42 43 | 27° 8'55 | 23°47 | 13°53 | 10°38 | 23°22 | 9°16 | 25°51 | 13° 3 | 16°46 | 23°24 | 21°17 | 21°12 | 6°52 | 11°41 | S 16 |
| S 17 | 9 46 40 | 28° 9'21 | 6 M .38 | 15°21 | 11°42 | 22°58 | 9°27 | 25°55 | 13° 7 | 16°47 | 23°24 | 21°16 | 21° 9 | 6°59 | 11°45 | S 17 |
| M18 | 9 50 36 | 29° 9'45 | 19°8 | 16°44 | 12°46 | 22°35 | 9°38 | 26° 0 | 13°10 | 16°49 | 23°23 | 21°16 | 21° 5 | 7° 5 | 11°50 | M18 |
| T 19 | 9 54 33 | 0 ∺ 10'08 | 1 ₹ 21 | 18° 1 | 13°50 | 22°11 | 9°50 | 26° 4 | 13°14 | 16°51 | 23°23 | 21°D15 | 21° 2 | 7°12 | 11°54 | T 19 |
| W20 | 9 58 29 | 1°10'29 | 13°21 | 19°12 | 14°55 | 21°48 | 10° 1 | 26° 8 | 13°17 | 16°53 | 23°23 | 21°16 | 20°59 | 7°19 | 11°59 | W20 |
| T 21 | 10 2 26 | 2°10'49 | 25°13 | 20°16 | 16° 0 | 21°25 | 10°12 | 26°12 | 13°20 | 16°54 | 23°22 | 21°17 | 20°56 | 7°25 | 12° 3 | T 21 |
| F 22 | 10 6 22 | 3°11'08 | 7る 2 | 21°13 | 17° 5 | 21° 3 | 10°23 | 26°16 | 13°24 | 16°56 | 23°22 | 21°18 | 20°53 | 7°32 | 12° 7 | F 22 |
| S 23 | 10 10 19 | 4°11'25 | 18°53 | 22° 1 | 18°10 | 20°41 | 10°33 | 26°20 | 13°27 | 16°58 | 23°22 | 21°19 | 20°49 | 7°39 | 12°12 | S 23 |
| S 24 | 10 14 15 | 5°11'41 | 0≈48 | 22°42 | 19°15 | 20°19 | 10°44 | 26°24 | 13°30 | 17° 0 | 23°21 | 21°20 | 20°46 | 7°46 | 12°16 | S 24 |
| M25 | 10 18 12 | 6°11'54 | 12°52 | 23°13 | 20°21 | 19°58 | 10°55 | 26°28 | 13°34 | 17° 1 | 23°21 | 21°21 | 20°43 | 7°52 | 12°21 | M25 |
| T 26 | 10 22 9 | 7°12'06 | 25° 6 | 23°35 | 21°27 | 19°37 | 11° 5 | 26°32 | 13°37 | 17° 3 | 23°21 | 21°R21 | 20°40 | 7°59 | 12°25 | T 26 |
| W27 | 10 26 5 | 8°12'17 | 7) €34 | 23°48 | 22°33 | 19°17 | 11°16 | 26°36 | 13°40 | 17° 4 | 23°21 | 21°20 | 20°37 | 8° 6 | 12°29 | W27 |
| T 28 | 10 30 2 | 9°12'25 | 20°15 | 23°R52 | 23°39 | 18°57 | 11°26 | 26°39 | 13°43 | 17° 6 | 23°21 | 21°19 | 20°34 | 8°12 | 12°33 | T 28 |
| F 29 | 10 33 58 | 10 米 12′32 | 3 Υ 10 | 23) (46 | 24 궁 46 | 18 Ω 38 | 11 る 36 | 26 ₹ 43 | 13 ≈ 47 | 17る8 | 23Ⅱ20 | 21 Ω 16 | $20\Omega 30$ | 8 궁 19 | 12≈38 | F 29 |

Delta T = 33.62 sec

MARCH 1664 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| 卉 | В | ß | v | Ç | ę, | Day |
|------|----------|-------------------|----------------|----------------|----------------|----------------|----------------|-----------------|-------|----------------|-----------------|------------------|-----------------|----------------|----------------|------|
| S 1 | 10 37 55 | 11 米 12'36 | 16 Y 19 | 23°R31 | 25 ප 53 | 18°R19 | 11 궁 46 | 26 × 746 | 13≈50 | 17 ට 9 | 23°R20 | 21°R13 | 20 \O 27 | 8 궁 26 | 12 ≈ 42 | S 1 |
| S 2 | 10 41 51 | 12°12'38 | 29°41 | 23 米 8 | 26°59 | 18 Ω 1 | 11°56 | 26°49 | 13°53 | 17°11 | 23耳20 | 21 \$\Omega 10\$ | 20°24 | 8°32 | 12°46 | S 2 |
| M 3 | 10 45 48 | 13°12'39 | 13816 | 22°37 | 28° 6 | 17°44 | 12° 6 | 26°53 | 13°56 | 17°12 | 23°20 | 21° 7 | 20°21 | 8°39 | 12°50 | M 3 |
| T 4 | 10 49 44 | 14°12'37 | 27° 3 | 21°58 | 29°13 | 17°28 | 12°16 | 26°56 | 13°59 | 17°14 | 23°20 | 21° 5 | 20°18 | 8°46 | 12°54 | T 4 |
| W 5 | 10 53 41 | 15°12'33 | 11 II 0 | 21°14 | 0≈21 | 17°12 | 12°26 | 26°59 | 14° 2 | 17°15 | 23°20 | 21°D 5 | 20°14 | 8°52 | 12°59 | W 5 |
| T 6 | 10 57 38 | 16°12'27 | 25° 7 | 20°24 | 1°28 | 16°57 | 12°35 | 27° 2 | 14° 6 | 17°16 | 23°20 | 21° 5 | 20°11 | 8°59 | 13° 3 | T 6 |
| F 7 | 11 134 | 17°12'18 | 99522 | 19°31 | 2°36 | 16°42 | 12°45 | 27° 5 | 14° 9 | 17°18 | 23°D20 | 21° 6 | 20° 8 | 9° 6 | 13° 7 | F 7 |
| S 8 | 11 5 31 | 18°12'07 | 23°43 | 18°34 | 3°43 | 16°29 | 12°54 | 27° 8 | 14°12 | 17°19 | 23°20 | 21° 7 | 20° 5 | 9°12 | 13°11 | S 8 |
| S 9 | 11 9 27 | 19°11'54 | 8 N 7 | 17°37 | 4°51 | 16°16 | 13° 3 | 27°10 | 14°15 | 17°20 | 23°20 | 21° 9 | 20° 2 | 9°19 | 13°15 | S 9 |
| M10 | 11 13 24 | 20°11'39 | 22°30 | 16°39 | 5°59 | 16° 4 | 13°12 | 27°13 | 14°18 | 17°22 | 23°20 | 21°R 9 | 19°59 | 9°26 | 13°19 | M10 |
| T 11 | 11 17 20 | 21°11'22 | 6 m 48 | 15°43 | 7° 7 | 15°52 | 13°21 | 27°16 | 14°21 | 17°23 | 23°20 | 21° 8 | 19°55 | 9°32 | 13°23 | T 11 |
| W12 | 11 21 17 | 22°11'02 | 20°55 | 14°49 | 8°15 | 15°42 | 13°30 | 27°18 | 14°24 | 17°24 | 23°20 | 21° 6 | 19°52 | 9°39 | 13°26 | W12 |
| T 13 | 11 25 13 | 23°10'40 | 4 ≏ 47 | 13°58 | 9°24 | 15°32 | 13°39 | 27°20 | 14°26 | 17°25 | 23°20 | 21° 2 | 19°49 | 9°46 | 13°30 | T 13 |
| F 14 | 11 29 10 | 24°10'17 | 18°21 | 13°12 | 10°32 | 15°23 | 13°47 | 27°23 | 14°29 | 17°27 | 23°20 | 20°57 | 19°46 | 9°52 | 13°34 | F 14 |
| S 15 | 11 33 6 | 25° 9'51 | 1 M .34 | 12°30 | 11°41 | 15°15 | 13°56 | 27°25 | 14°32 | 17°28 | 23°21 | 20°51 | 19°43 | 9°59 | 13°38 | S 15 |
| S 16 | 11 37 3 | 26° 9'24 | 14°26 | 11°53 | 12°49 | 15° 7 | 14° 4 | 27°27 | 14°35 | 17°29 | 23°21 | 20°45 | 19°40 | 10° 6 | 13°41 | S 16 |
| M17 | 11 41 0 | 27° 8'54 | 26°59 | 11°22 | 13°58 | 15° 1 | 14°12 | 27°29 | 14°38 | 17°30 | 23°21 | 20°41 | 19°36 | 10°12 | 13°45 | M17 |
| T 18 | 11 44 56 | 28° 8'24 | 9 ∡ 15 | 10°57 | 15° 7 | 14°55 | 14°20 | 27°31 | 14°41 | 17°31 | 23°21 | 20°37 | 19°33 | 10°19 | 13°49 | T 18 |
| W19 | 11 48 53 | 29° 7'51 | 2 <u>1</u> °17 | 10°38 | 16°16 | 14°50 | 14°28 | 27°33 | 14°43 | 17°32 | 23°22 | 20°35 | 19°30 | 10°26 | 13°52 | W19 |
| T 20 | 11 52 49 | 0 ℃ 7'16 | 3 ට 10 | 10°25 | 17°25 | 14°45 | 14°36 | 27°34 | 14°46 | 17°33 | 23°22 | 20°D35 | 19°27 | 10°32 | 13°56 | T 20 |
| F 21 | 11 56 46 | 1° 6'40 | 15° 0 | 10°18 | 18°34 | 14°42 | 14°44 | 27°36 | 14°49 | 17°34 | 23°22 | 20°36 | 19°24 | 10°39 | 13°59 | F 21 |
| S 22 | 12 0 42 | 2° 6'02 | 26°51 | 10°D17 | 19°44 | 14°39 | 14°51 | 27°37 | 14°51 | 17°35 | 23°22 | 20°37 | 19°20 | 10°46 | 14° 3 | S 22 |
| S 23 | 12 4 39 | 3° 5'22 | 8 ≈ 49 | 10°22 | 20°53 | 14°37 | 14°59 | 27°39 | 14°54 | 17°36 | 23°23 | 20°39 | 19°17 | 10°52 | 14° 6 | S 23 |
| M24 | 12 8 35 | 4° 4'40 | 20°57 | 10°32 | 22° 3 | 14°36 | 15° 6 | 27°40 | 14°57 | 17°37 | 23°23 | 20°R39 | 19°14 | 10°59 | 14°10 | M24 |
| T 25 | 12 12 32 | 5° 3'56 | 3 ∺ 20 | 10°47 | 23°12 | 14°D35 | 15°13 | 27°41 | 14°59 | 17°37 | 23°24 | 20°39 | 19°11 | 11° 6 | 14°13 | T 25 |
| W26 | 12 16 29 | 6° 3'11 | 16° 1 | 11° 7 | 24°22 | 14°35 | 15°20 | 27°42 | 15° 2 | 17°38 | 23°24 | 20°36 | 19° 8 | 11°13 | 14°16 | W26 |
| T 27 | 12 20 25 | 7° 2'23 | 29° 0 | 11°32 | 25°32 | 14°36 | 15°27 | 27°43 | 15° 4 | 17°39 | 23°24 | 20°31 | 19° 5 | 11°19 | 14°20 | T 27 |
| F 28 | 12 24 22 | 8° 1'33 | 12 Υ 18 | 12° 2 | 26°41 | 14°38 | 15°33 | 27°44 | 15° 6 | 17°40 | 23°25 | 20°24 | 19° 1 | 11°26 | 14°23 | F 28 |
| S 29 | 12 28 18 | 9° 0'42 | 25°53 | 12°36 | 27°51 | 14°40 | 15°40 | 27°45 | 15° 9 | 17°40 | 23°25 | 20°16 | 18°58 | 11°33 | 14°26 | S 29 |
| S 30 | 12 32 15 | 9°59'48 | 9842 | 13°14 | 29° 1 | 14°43 | 15°46 | 27°46 | 15°11 | 17°41 | 23°26 | 20° 7 | 18°55 | 11°39 | 14°29 | S 30 |
| M31 | 12 36 11 | 10 Υ 58'52 | 23 8 41 | 13 ¥ 55 | 0 ₩ 11 | 14 Ω 47 | 15 る 52 | 27 . 746 | 15≈14 | 17 る 42 | 23 II 26 | 20 N 0 | 18 Ω 52 | 11 ろ 46 | 14≈32 | M31 |

Delta T = 33.57 sec

Greg. Calendar

APRIL 1664 GC 00:00 UT

| Day | Sid.t | 0 | D | Ψ | Q | ♂ | 4 | ħ | ᡟ | ¥ | Р | ß | ಬ | Ç | ۴0 | Day |
|------|----------|-------------------|----------------|----------------|---------------|----------------|----------------|-----------------|-------|----------------|-----------------|----------------|----------------|----------------|-------|------|
| T 1 | 12 40 8 | 11 ° 57'54 | 7 Ⅱ 48 | 14) 41 | 1 米 21 | 14 Ω 52 | 15 る 58 | 27 ,7 47 | 15≈16 | 17 云 42 | 23Ⅲ27 | 19°R53 | 18 Ω 49 | 11 る 53 | 14≈35 | T 1 |
| W 2 | 12 44 4 | 12°56'53 | 21°57 | 15°29 | 2°31 | 14°57 | 16° 4 | 27°47 | 15°18 | 17°43 | 23°28 | 19 Ω 49 | 18°46 | 11°59 | 14°38 | W 2 |
| T 3 | 12 48 1 | 13°55'50 | 69 7 | 16°22 | 3°42 | 15° 3 | 16°10 | 27°48 | 15°20 | 17°43 | 23°28 | 19°47 | 18°42 | 12° 6 | 14°41 | T 3 |
| F 4 | 12 51 58 | 14°54'45 | 20°16 | 17°17 | 4°52 | 15° 9 | 16°15 | 27°48 | 15°22 | 17°44 | 23°29 | 19°D47 | 18°39 | 12°13 | 14°44 | F 4 |
| S 5 | 12 55 54 | 15°53'38 | 4Ω 22 | 18°15 | 6° 2 | 15°16 | 16°21 | 27°48 | 15°25 | 17°44 | 23°29 | 19°48 | 18°36 | 12°19 | 14°47 | S 5 |
| S 6 | 12 59 51 | 16°52'28 | 18°23 | 19°16 | 7°13 | 15°24 | 16°26 | 27°R48 | 15°27 | 17°45 | 23°30 | 19°R49 | 18°33 | 12°26 | 14°49 | S 6 |
| M 7 | 13 3 47 | 17°51'15 | 2 Mp 20 | 20°19 | 8°23 | 15°32 | 16°31 | 27°48 | 15°29 | 17°45 | 23°31 | 19°48 | 18°30 | 12°33 | 14°52 | M 7 |
| T 8 | 13 7 44 | 18°50'01 | 16°10 | 21°26 | 9°33 | 15°41 | 16°36 | 27°48 | 15°31 | 17°46 | 23°31 | 19°45 | 18°26 | 12°39 | 14°55 | T 8 |
| W 9 | 13 11 40 | 19°48'44 | 29°52 | 22°34 | 10°44 | 15°51 | 16°41 | 27°47 | 15°33 | 17°46 | 23°32 | 19°40 | 18°23 | 12°46 | 14°57 | W 9 |
| T 10 | 13 15 37 | 20°47'25 | 13 ≏ 22 | 23°45 | 11°55 | 16° 1 | 16°45 | 27°47 | 15°35 | 17°46 | 23°33 | 19°32 | 18°20 | 12°53 | 15° 0 | T 10 |
| F 11 | 13 19 33 | 21°46'05 | 26°39 | 24°58 | 13° 5 | 16°11 | 16°50 | 27°47 | 15°36 | 17°47 | 23°34 | 19°22 | 18°17 | 12°59 | 15° 2 | F 11 |
| S 12 | 13 23 30 | 22°44'42 | 9 M .40 | 26°14 | 14°16 | 16°23 | 16°54 | 27°46 | 15°38 | 17°47 | 23°34 | 19°11 | 18°14 | 13° 6 | 15° 5 | S 12 |
| S 13 | 13 27 26 | 23°43'17 | 22°25 | 27°32 | 15°27 | 16°34 | 16°58 | 27°45 | 15°40 | 17°47 | 23°35 | 19° 0 | 18°11 | 13°13 | 15° 7 | S 13 |
| M14 | 13 31 23 | 24°41'51 | 4 ₹ 53 | 28°51 | 16°37 | 16°47 | 17° 2 | 27°45 | 15°42 | 17°47 | 23°36 | 18°50 | 18° 7 | 13°19 | 15° 9 | M14 |
| T 15 | 13 35 20 | 25°40'23 | 17° 7 | 0 Υ 13 | 17°48 | 16°59 | 17° 6 | 27°44 | 15°44 | 17°47 | 23°37 | 18°42 | 18° 4 | 13°26 | 15°12 | T 15 |
| W16 | 13 39 16 | 26°38'53 | 29° 8 | 1°37 | 18°59 | 17°13 | 17° 9 | 27°43 | 15°45 | 17°48 | 23°38 | 18°36 | 18° 1 | 13°33 | 15°14 | W16 |
| T 17 | 13 43 13 | 27°37'22 | 11중 1 | 3° 2 | 20°10 | 17°27 | 17°12 | 27°42 | 15°47 | 17°48 | 23°39 | 18°32 | 17°58 | 13°39 | 15°16 | T 17 |
| F 18 | 13 47 9 | 28°35'49 | 22°51 | 4°30 | 21°21 | 17°41 | 17°16 | 27°41 | 15°48 | 17°48 | 23°39 | 18°31 | 17°55 | 13°46 | 15°18 | F 18 |
| S 19 | 13 51 6 | 29°34'14 | 4≈41 | 5°59 | 22°32 | 17°56 | 17°19 | 27°39 | 15°50 | 17°R48 | 23°40 | 18°D31 | 17°51 | 13°53 | 15°20 | S 19 |
| S 20 | 13 55 2 | 0 8 32'38 | 16°39 | 7°31 | 23°43 | 18°11 | 17°21 | 27°38 | 15°51 | 17°48 | 23°41 | 18°R31 | 17°48 | 13°59 | 15°22 | S 20 |
| M21 | 13 58 59 | 1°31'00 | 28°49 | 9° 4 | 24°54 | 18°27 | 17°24 | 27°37 | 15°53 | 17°48 | 23°42 | 18°30 | 17°45 | 14° 6 | 15°24 | M21 |
| T 22 | 14 2 55 | 2°29'20 | 11 米 16 | 10°39 | 26° 6 | 18°43 | 17°26 | 27°35 | 15°54 | 17°48 | 23°43 | 18°28 | 17°42 | 14°13 | 15°26 | T 22 |
| W23 | 14 6 52 | 3°27'39 | 24° 4 | 12°16 | 27°17 | 18°59 | 17°29 | 27°34 | 15°56 | 17°47 | 23°44 | 18°24 | 17°39 | 14°19 | 15°27 | W23 |
| T 24 | 14 10 49 | 4°25'56 | 7 Υ 16 | 13°54 | 28°28 | 19°17 | 17°31 | 27°32 | 15°57 | 17°47 | 23°45 | 18°17 | 17°36 | 14°26 | 15°29 | T 24 |
| F 25 | 14 14 45 | 5°24'12 | 20°51 | 15°35 | 29°39 | 19°34 | 17°33 | 27°30 | 15°58 | 17°47 | 23°46 | 18° 7 | 17°32 | 14°33 | 15°31 | F 25 |
| S 26 | 14 18 42 | 6°22'26 | 4 8 48 | 17°17 | 0 Υ 51 | 19°52 | 17°34 | 27°28 | 15°59 | 17°47 | 23°47 | 17°56 | 17°29 | 14°39 | 15°32 | S 26 |
| S 27 | 14 22 38 | 7°20'38 | 19° 3 | 19° 1 | 2° 2 | 20°10 | 17°36 | 27°26 | 16° 1 | 17°47 | 23°48 | 17°45 | 17°26 | 14°46 | 15°34 | S 27 |
| M28 | 14 26 35 | 8°18'48 | 3 Ⅲ 30 | 20°47 | 3°13 | 20°29 | 17°37 | 27°24 | 16° 2 | 17°46 | 23°49 | 17°34 | 17°23 | 14°53 | 15°35 | M28 |
| T 29 | 14 30 31 | 9°16'57 | 18° 2 | 22°35 | 4°25 | 20°48 | 17°38 | 27°22 | 16° 3 | 17°46 | 23°50 | 17°25 | 17°20 | 14°59 | 15°37 | T 29 |
| W30 | 14 34 28 | 10815'04 | 2933 | 24 Y 24 | 5 Ƴ 36 | 21 0 8 | 17 る 39 | 27 ₹ 20 | 16≈ 4 | 17 ろ 46 | 23 II 51 | 17 Ω 18 | 17 Ω 17 | 15 る 6 | 15≈38 | W30 |

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|---|---|-----|-----------------|----------------|----------------|---------------|----------------|-----------------|----------------|--------|----------------|-------|----------------|----------------|----------------|----------------|------|
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Ī | | | | | | | . — . | | - | | | | | | 15 ≈ 39 | T 1 |
| $\begin{array}{c} \textbf{S} & 4 & 14 & 50 & 14 & 14^{\circ} & 711 & 29^{\circ} & 7 & 2^{\circ} & 1 & 10^{\circ}22 & 22^{\circ}29 & 17^{\circ}841 & 27^{\circ}10 & 16^{\circ} & 7 & 17^{\circ}44 & 23^{\circ}56 & 17^{\circ}13 & 17^{\circ} & 4 & 15^{\circ}33 & 15^{\circ} \\ \textbf{M} & 5 & 14 & 54 & 11 & 15^{\circ} & 5'08 & 12\text{m/d}7 & 3^{\circ}59 & 11^{\circ}34 & 22^{\circ}51 & 17^{\circ}41 & 27^{\circ} & 7 & 16^{\circ} & 8 & 17^{\circ}43 & 23^{\circ}57 & 17^{\circ}11 & 17^{\circ} & 1 & 15^{\circ}39 & 15^{\circ} \\ \textbf{T} & 6 & 14 & 58 & 7 & 16^{\circ} & 30 & 26^{\circ}16 & 6^{\circ} & 0 & 12^{\circ}45 & 23^{\circ}12 & 17^{\circ}41 & 27^{\circ} & 5 & 16^{\circ} & 9 & 17^{\circ}43 & 23^{\circ}58 & 17^{\circ} & 7 & 16^{\circ}57 & 15^{\circ}46 & 15^{\circ} \\ \textbf{W} & 7 & 15 & 2 & 4 & 17^{\circ} & 0'56 & 9243 & 8^{\circ} & 2 & 13^{\circ}57 & 23^{\circ}34 & 17^{\circ}41 & 27^{\circ} & 2 & 16^{\circ}10 & 17^{\circ}42 & 23^{\circ}59 & 17^{\circ} & 1 & 16^{\circ}54 & 15^{\circ}53 \\ \textbf{T} & 8 & 15 & 6 & 0 & 17^{\circ}5848 & 22^{\circ}41 & 10^{\circ} & 6 & 15^{\circ} & 9 & 23^{\circ}57 & 17^{\circ}40 & 26^{\circ}59 & 16^{\circ}10 & 17^{\circ}42 & 24^{\circ} & 0 & 16^{\circ}51 & 16^{\circ}51 & 15^{\circ}59 \\ \textbf{F} & 9 & 15 & 957 & 18^{\circ}5638 & 5\text{m.37} & 12^{\circ}11 & 16^{\circ}20 & 24^{\circ}19 & 17^{\circ}39 & 26^{\circ}56 & 16^{\circ}11 & 17^{\circ}41 & 24^{\circ} & 2 & 16^{\circ}40 & 16^{\circ}48 & 16^{\circ}6 & 15^{\circ} \\ \textbf{S} & 10 & 15 & 135 & 3 & 19^{\circ}5427 & 18^{\circ}20 & 14^{\circ}18 & 17^{\circ}32 & 24^{\circ}42 & 17^{\circ}38 & 26^{\circ}53 & 16^{\circ}11 & 17^{\circ}41 & 24^{\circ} & 2 & 16^{\circ}40 & 16^{\circ}45 & 16^{\circ}13 & 15^{\circ} \\ \textbf{M12} & 15 & 175 & 0 & 20^{\circ}52^{\circ}14 & 02^{\circ}51 & 16^{\circ}26 & 18^{\circ}44 & 25^{\circ}6 & 17^{\circ}37 & 26^{\circ}50 & 16^{\circ}12 & 17^{\circ}40 & 24^{\circ}4 & 16^{\circ}14 & 16^{\circ}42 & 16^{\circ}45 & 16^{\circ}13 & 15^{\circ} \\ \textbf{M12} & 15 & 21 & 47 & 21^{\circ}4959 & 13^{\circ}9 & 18^{\circ}35 & 19^{\circ}55 & 25^{\circ}29 & 17^{\circ}36 & 26^{\circ}47 & 16^{\circ}12 & 17^{\circ}39 & 24^{\circ}5 & 16^{\circ}1 & 16^{\circ}38 & 16^{\circ}26 & 15^{\circ} \\ \textbf{M13} & 15 & 25 & 43 & 22^{\circ}4744 & 25^{\circ}16 & 20^{\circ}45 & 21^{\circ}7 & 25^{\circ}53 & 17^{\circ}33 & 26^{\circ}41 & 16^{\circ}13 & 17^{\circ}38 & 24^{\circ}7 & 15^{\circ}51 & 16^{\circ}33 & 15^{\circ} \\ \textbf{M14} & 15 & 29 & 40 & 23^{\circ}45^{\circ}27 & 7514 & 22^{\circ}56 & 22^{\circ}19 & 26^{\circ}17 & 17^{\circ}33 & 26^{\circ}41 & 16^{\circ}13 & 17^{\circ}38 & 24^{\circ}7 & 15^{\circ}39 & 16^{\circ}29 & 16^{\circ}34 & 16^{\circ}3 \\ \textbf{S} & 15 & 15 & 13 & 29 & 26^{\circ}37 & 16^{\circ}13 & 17^{\circ$ | | 1 | 12°11'11 | 1Ω 12 | | 7°59 | 21°48 | 17°41 | 27 × 15 | 16° 6 | 17 る 45 | 23°54 | 17 Ω 13 | 17°10 | 15°19 | 15°41 | F 2 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 3 | 13° 9'12 | 15°15 | 0 8 4 | 9°11 | 22° 8 | 17°41 | 27°13 | 16° 7 | 17°44 | 23°55 | 17°13 | 17° 7 | 15°26 | 15°42 | S 3 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | - | - | | | | -, | | | | | 15°43 | S 4 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | - 1 | | | | _ | - | | | | -, | | -, | -, - | | 15°44 | M 5 |
| T 8 15 6 0 17°58'48 22°41 10° 6 15° 9 23°57 17°40 26°59 16°10 17°42 24° 0 16°51 16°51 15°59 15° F 9 15° 8 15° 75° 16° 13 15° 59 15° 16° 1 16° 40 16° 48 16° 6 15° 8 16° 13 15° 59 15° 16° 1 16° 45 16° 13 15° 6 16° 11 17° 41 24° 2 16° 40 16° 45 16° 13 15° 6 16° 13 15° 59 15° 15° 15° 1 16° 45 16° 13 15° 59 15° 15° 15° 1 16° 45 16° 13 15° 40 24° 4 16° 13 16° 45 16° 13 16° 42 16° 13 16° 43 16° 14 16° 42 16° 13 15° 40° 47 16° 12 | | 7 | 16° 3'03 | | | - | - | | | | | | | 16°57 | | 15°45 | T 6 |
| F 9 15 9 57 18°56'38 5 m37 12°11 16°20 24°19 17°39 26°56 16°11 17°41 24° 2 16°40 16°48 16° 6 15° 8 10 15 13 53 19°54'27 18°20 14°18 17°32 24°42 17°38 26°53 16°11 17°41 24° 3 16°27 16°45 16°13 15° 8 11 15 17 50 20°52'14 0₹51 16°26 18°44 25° 6 17°37 26°50 16°12 17°40 24° 4 16°14 16°42 16°19 15° 112 15 14 7 21°49'59 13° 9 18°35 19°55 25°29 17°36 26°47 16°12 17°39 24° 5 16° 1 16°38 16°26 15° 113 15°25 43 22°47'44 25°16 20°45 21° 7 25°53 17°34 26°44 16°13 17°38 24° 7 15°51 16°35 16°33 15° 14° 15° 15° 15° 15° 15° 15° 15° 15° 15° 15 | | 1 | 17° 0'56 | 9 ≙ 34 | - | | 23°34 | 17°41 | 27° 2 | 16°10 | | 23°59 | 17° 1 | 16°54 | 15°53 | 15°46 | W 7 |
| S 10 15 13 53 19°54'27 18°20 14°18 17°32 24°42 17°38 26°53 16°11 17°41 24° 3 16°27 16°45 16°13 15° | |) | 17°58'48 | 22°41 | 10° 6 | 15° 9 | 23°57 | 17°40 | 26°59 | 16°10 | 17°42 | 24° 0 | 16°51 | 16°51 | | 15°46 | T 8 |
| S 1 | | 7 | 18°56'38 | 5 M .37 | 12°11 | 16°20 | 24°19 | 17°39 | 26°56 | 16°11 | 17°41 | 24° 2 | 16°40 | 16°48 | 16° 6 | 15°47 | F 9 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | 3 | 19°54'27 | 18°20 | 14°18 | 17°32 | 24°42 | 17°38 | 26°53 | 16°11 | 17°41 | 24° 3 | 16°27 | 16°45 | 16°13 | 15°48 | S 10 |
| T13 15 25 43 22°47'44 25°16 20°45 21° 7 25°53 17°34 26°44 16°13 17°38 24° 7 15°51 16°35 16°33 15° W14 15 29 40 23°45'27 7514 22°56 22°19 26°17 17°33 26°41 16°13 17°38 24° 8 15°43 16°32 16°39 15° T15 15 33 36 24°43'09 19° 5 25° 7 23°31 26°41 17°31 26°37 16°13 17°37 24° 9 15°39 16°29 16°46 15° F16 15 37 33 25°40'50 0≈53 27°18 24°43 27° 6 17°29 26°34 16°13 17°36 24°10 15°36 16°26 16°53 15° S17 15 41 29 26°38'29 12°43 29°30 25°55 27°31 17°26 26°30 16°14 17°35 24°12 15°D35 16°23 16°59 15° S18 15 45 26 27°36'08 24°40 11141 27° 6 27°56 17°24 26°27 16°14 17°34 24°13 15°R35 16°19 17° 6 15° M19 15 49 22 28°33'46 6 €49 3°52 28°18 28°22 17°21 26°23 16°14 17°33 24°14 15°35 16°16 17°13 15° T20 15 53 19 29°31'22 19°16 6° 2 29°30 28°47 17°19 26°20 16°R14 17°33 24°16 15°34 16°13 17°19 15°R W21 15 57 16 01128'58 21° 5 8°10 0842 29°13 17°16 26°16 16°14 17°32 24°17 15°30 16°10 17°26 15° S24 16 9 5 3°21'39 138'12 14°27 4°19 0°33 17° 6 26°4 16°14 17°30 24°20 15°16 16° 3 17°39 15° S24 16 9 5 3°21'39 138'12 14°27 4°19 0°33 17° 6 26°4 16°14 17°29 24°21 15° 6 16° 0 17°46 15° S24 16 9 5 3°21'39 138'12 14°27 4°19 0°33 17° 6 26°4 16°14 17°30 24°22 14°55 15°57 17°53 15° M26 16 16 58 5°16'42 12132 18°29 6°43 1°27 16°58 25°57 16°13 17°26 24°24 14°45 15°54 17°59 15° T27 16 20 55 6°14'12 27°27 20°27 7°55 1°54 16°54 25°53 16°13 17°25 24°25 14°37 15°51 18° 6 15° | |) | 20°52'14 | 0 ₹ 51 | 16°26 | 18°44 | 25° 6 | 17°37 | 26°50 | 16°12 | 17°40 | 24° 4 | 16°14 | 16°42 | 16°19 | 15°48 | S 11 |
| W14 15 29 40 23°45′27 7♂14 22°56 22°19 26°17 17°33 26°41 16°13 17°38 24° 8 15°43 16°32 16°39 15° T 15 15 33 36 24°43′09 19° 5 25° 7 23°31 26°41 17°31 26°37 16°13 17°37 24° 9 15°39 16°29 16°46 15° F 16 15 37 33 25°40′50 0≈53 27°18 24°43 27° 6 17°29 26°34 16°13 17°36 24°10 15°36 16°26 16°53 15° S 17 15 41 29 26°38′29 12°43 29°30 25°55 27°31 17°26 26°30 16°14 17°35 24°12 15°D35 16°23 16°59 15° S 18 15 45 26 27°36′08 24°40 1 | | 7 | 21°49'59 | 13° 9 | 18°35 | -, | 25°29 | 17°36 | 26°47 | | 17°39 | 24° 5 | 16° 1 | 16°38 | 16°26 | 15°49 | M12 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 3 | 22°47'44 | 25°16 | 20°45 | 21° 7 | 25°53 | 17°34 | 26°44 | 16°13 | 17°38 | 24° 7 | 15°51 | 16°35 | 16°33 | 15°49 | T 13 |
| F 16 | |) | 23°45'27 | 7 궁 14 | 22°56 | 22°19 | 26°17 | 17°33 | 26°41 | 16°13 | 17°38 | 24° 8 | 15°43 | 16°32 | 16°39 | 15°50 | W14 |
| S 17 | | 5 | 24°43'09 | 19° 5 | 25° 7 | 23°31 | 26°41 | 17°31 | 26°37 | 16°13 | 17°37 | 24° 9 | 15°39 | 16°29 | 16°46 | 15°50 | T 15 |
| S 18 | | 3 | 25°40'50 | 0≈53 | 27°18 | 24°43 | 27° 6 | 17°29 | 26°34 | 16°13 | 17°36 | 24°10 | 15°36 | 16°26 | 16°53 | 15°50 | F 16 |
| M19 | |) | 26°38'29 | 12°43 | 29°30 | 25°55 | 27°31 | 17°26 | 26°30 | 16°14 | 17°35 | 24°12 | 15°D35 | 16°23 | 16°59 | 15°51 | S 17 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 6 | 27°36'08 | | | -, - | | | | - | | _ | | 16°19 | | 15°51 | S 18 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | 2 | 28°33'46 | 6 ∺ 49 | | | 28°22 | 17°21 | 26°23 | 16°14 | | 24°14 | 15°35 | 16°16 | 17°13 | 15°51 | M19 |
| T 22 | | | | | | _, | 28°47 | 17°19 | 26°20 | 16°R14 | 17°33 | 24°16 | 15°34 | 16°13 | 17°19 | 15°R51 | T 20 |
| F 23 | | 6 | 0∏28'58 | 2 Υ 5 | 8°10 | 0 8 42 | 29°13 | 17°16 | 26°16 | 16°14 | 17°32 | 24°17 | 15°30 | 16°10 | 17°26 | 15°51 | W21 |
| S 24 16 9 5 3°21'39 13812 14°27 4°19 0°33 17° 6 26° 4 16°14 17°29 24°21 15° 6 16° 0 17°46 15° S 25 16 13 2 4°19'11 27°44 16°29 5°31 0°59 17° 2 26° 1 16°13 17°28 24°22 14°55 15°57 17°53 15° M26 16 16 58 5°16'42 12 II32 18°29 6°43 1°27 16°58 25°57 16°13 17°26 24°24 14°45 15°54 17°59 15° T 27 16 20 55 6°14'12 27°27 20°27 7°55 1°54 16°54 25°53 16°13 17°25 24°25 14°37 15°51 18° 6 15° | | 2 | 1°26'33 | 15°20 | 10°18 | 1°54 | 29°39 | 17°12 | 26°12 | 16°14 | 17°31 | 24°18 | 15°24 | 16° 7 | 17°33 | 15°51 | T 22 |
| S 25 16 13 2 4°19'11 27°44 16°29 5°31 0°59 17° 2 26° 1 16°13 17°28 24°22 14°55 15°57 17°53 15° M26 16 16 58 5°16'42 12 II 32 18°29 6°43 1°27 16°58 25°57 16°13 17°26 24°24 14°45 15°54 17°59 15° T 27 16 20 55 6°14'12 27°27 20°27 7°55 1°54 16°54 25°53 16°13 17°25 24°25 14°37 15°51 18° 6 15° | | | 2°24'07 | | _ | | 0 m) 6 | | | - | | 24°20 | | | 17°39 | 15°51 | F 23 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | 5 | 3°21'39 | 13 8 12 | 14°27 | 4°19 | 0°33 | 17° 6 | 26° 4 | 16°14 | 17°29 | 24°21 | 15° 6 | 16° 0 | 17°46 | 15°50 | S 24 |
| T 27 16 20 55 6°14'12 27°27 20°27 7°55 1°54 16°54 25°53 16°13 17°25 24°25 14°37 15°51 18° 6 15° | | | - | | | | | | - | | | | | | | 15°50 | S 25 |
| | ۱ | | | | | | - | | | | | | - | | | 15°50 | M26 |
| | 1 | 5 | 6°14'12 | 27°27 | | | 1°54 | 16°54 | 25°53 | 16°13 | | 24°25 | 14°37 | 15°51 | 18° 6 | 15°49 | T 27 |
| | l | 1 | 7°11'41 | 129520 | 22°22 | 9° 7 | 2°22 | 16°50 | 25°49 | 16°12 | 17°24 | 24°26 | 14°31 | 15°48 | 18°13 | 15°49 | W28 |
| | 1 | 3 | 8° 9'09 | 27° 5 | | 10°19 | 2°49 | 16°46 | 25°45 | 16°12 | 17°23 | 24°28 | 14°28 | 15°44 | 18°19 | 15°48 | T 29 |
| | ۱ | | | | | | 3°18 | | 25°40 | 16°12 | | | | | | 15°48 | F 30 |
| S 31 16 36 41 10 | ۱ | 1 | 0 Ⅱ 4'00 | 25 Ω 47 | 27 Ⅲ 53 | 12844 | 3 Mp 46 | 16 පි 36 | 25 × 36 | 16≈11 | 17 云 21 | 24∏31 | 14 Ω 27 | 15 Ω 38 | 18 云 33 | 15 ≈ 47 | S 31 |

Delta T = 33.46 sec Greg. Calendar

JUNE 1664 GC 00:00 UT

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|------|----------|-------------------|----------------|-------|----------------|----------------|----------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|------|
| S 1 | 16 40 38 | 11 II 1'24 | 9 m 40 | 29∏38 | 13 8 56 | 4 Mp 14 | 16°R32 | 25°R32 | 16°R11 | 17°R20 | 24∏32 | 14°R27 | 15 Ω 35 | 18 궁 39 | 15°R46 | S 1 |
| M 2 | 16 44 34 | 11°58'47 | 23°15 | 19521 | 15° 8 | 4°43 | 16 궁 27 | 25 ₹ 28 | 16≈10 | 17 る 18 | 24°33 | 14 Ω 27 | 15°32 | 18°46 | 15≈45 | M 2 |
| T 3 | 16 48 31 | 12°56'09 | 6 ₾ 33 | 3° 1 | 16°20 | 5°12 | 16°21 | 25°24 | 16° 9 | 17°17 | 24°35 | 14°25 | 15°28 | 18°53 | 15°45 | T 3 |
| W 4 | 16 52 27 | 13°53'29 | 19°36 | 4°38 | 17°33 | 5°41 | 16°16 | 25°19 | 16° 9 | 17°16 | 24°36 | 14°20 | 15°25 | 18°59 | 15°44 | W 4 |
| T 5 | 16 56 24 | 14°50'49 | 2 M 25 | 6°13 | 18°45 | 6°10 | 16°11 | 25°15 | 16° 8 | 17°15 | 24°38 | 14°13 | 15°22 | 19° 6 | 15°43 | T 5 |
| F 6 | 17 0 20 | 15°48'07 | 15° 2 | 7°44 | 19°57 | 6°40 | 16° 5 | 25°11 | 16° 7 | 17°13 | 24°39 | 14° 4 | 15°19 | 19°13 | 15°42 | F 6 |
| S 7 | 17 4 17 | 16°45'25 | 27°29 | 9°13 | 21°10 | 7° 9 | 16° 0 | 25° 6 | 16° 6 | 17°12 | 24°41 | 13°54 | 15°16 | 19°19 | 15°40 | S 7 |
| S 8 | 17 8 14 | 17°42'42 | 9 ∡ 744 | 10°40 | 22°22 | 7°39 | 15°54 | 25° 2 | 16° 6 | 17°11 | 24°42 | 13°43 | 15°13 | 19°26 | 15°39 | S 8 |
| M 9 | 17 12 10 | 18°39'58 | 21°51 | 12° 3 | 23°34 | 8° 9 | 15°48 | 24°58 | 16° 5 | 17° 9 | 24°43 | 13°34 | 15° 9 | 19°33 | 15°38 | M 9 |
| T 10 | 17 16 7 | 19°37'14 | 3 る 50 | 13°24 | 24°47 | 8°39 | 15°42 | 24°53 | 16° 4 | 17° 8 | 24°45 | 13°26 | 15° 6 | 19°39 | 15°37 | T 10 |
| W11 | 17 20 3 | 20°34'29 | 15°42 | 14°42 | 25°59 | 9° 9 | 15°36 | 24°49 | 16° 3 | 17° 6 | 24°46 | 13°20 | 15° 3 | 19°46 | 15°35 | W11 |
| T 12 | 17 24 0 | 21°31'44 | 27°31 | 15°56 | 27°12 | 9°40 | 15°29 | 24°45 | 16° 2 | 17° 5 | 24°48 | 13°17 | 15° 0 | 19°52 | 15°34 | T 12 |
| F 13 | 17 27 56 | 22°28'59 | 9≈18 | 17° 8 | 28°24 | 10°10 | 15°23 | 24°40 | 16° 1 | 17° 4 | 24°49 | 13°D15 | 14°57 | 19°59 | 15°32 | F 13 |
| S 14 | 17 31 53 | 23°26'13 | 21° 8 | 18°17 | 29°37 | 10°41 | 15°16 | 24°36 | 15°59 | 17° 2 | 24°51 | 13°15 | 14°54 | 20° 6 | 15°31 | S 14 |
| S 15 | 17 35 49 | 24°23'26 | 3 米 5 | 19°23 | 0 Ⅱ 49 | 11°12 | 15°10 | 24°31 | 15°58 | 17° 1 | 24°52 | 13°16 | 14°50 | 20°12 | 15°29 | S 15 |
| M16 | 17 39 46 | 25°20'40 | 15°14 | 20°25 | 2° 2 | 11°43 | 15° 3 | 24°27 | 15°57 | 16°59 | 24°53 | 13°18 | 14°47 | 20°19 | 15°28 | M16 |
| T 17 | 17 43 43 | 26°17'53 | 27°40 | 21°25 | 3°14 | 12°15 | 14°56 | 24°23 | 15°56 | 16°58 | 24°55 | 13°R18 | 14°44 | 20°26 | 15°26 | T 17 |
| W18 | 17 47 39 | 27°15'07 | 10 Y 27 | 22°21 | 4°27 | 12°46 | 14°49 | 24°18 | 15°55 | 16°56 | 24°56 | 13°17 | 14°41 | 20°32 | 15°24 | W18 |
| T 19 | 17 51 36 | 28°12'20 | 23°39 | 23°13 | 5°40 | 13°18 | 14°42 | 24°14 | 15°53 | 16°55 | 24°58 | 13°14 | 14°38 | 20°39 | 15°22 | T 19 |
| F 20 | 17 55 32 | 29° 9'33 | 7 8 20 | 24° 2 | 6°52 | 13°50 | 14°35 | 24° 9 | 15°52 | 16°53 | 24°59 | 13°10 | 14°34 | 20°46 | 15°20 | F 20 |
| S 21 | 17 59 29 | 09 6'46 | 21°29 | 24°47 | 8° 5 | 14°21 | 14°28 | 24° 5 | 15°50 | 16°52 | 25° 1 | 13° 4 | 14°31 | 20°52 | 15°19 | S 21 |
| S 22 | 18 3 25 | 1° 4'00 | 6耳 5 | 25°29 | 9°18 | 14°54 | 14°20 | 24° 1 | 15°49 | 16°50 | 25° 2 | 12°58 | 14°28 | 20°59 | 15°17 | S 22 |
| M23 | 18 7 22 | 2° 1'13 | 21° 0 | 26° 7 | 10°30 | 15°26 | 14°13 | 23°56 | 15°48 | 16°49 | 25° 4 | 12°52 | 14°25 | 21° 6 | 15°15 | M23 |
| T 24 | 18 11 19 | 2°58'26 | 6 9 7 | 26°40 | 11°43 | 15°58 | 14° 6 | 23°52 | 15°46 | 16°47 | 25° 5 | 12°47 | 14°22 | 21°12 | 15°12 | T 24 |
| W25 | 18 15 15 | 3°55'39 | 21°16 | 27°10 | 12°56 | 16°31 | 13°58 | 23°48 | 15°44 | 16°46 | 25° 6 | 12°44 | 14°19 | 21°19 | 15°10 | W25 |
| T 26 | 18 19 12 | 4°52'52 | 6 Ω 18 | 27°35 | 14° 9 | 17° 3 | 13°51 | 23°43 | 15°43 | 16°44 | 25° 8 | 12°D42 | 14°15 | 21°26 | 15° 8 | T 26 |
| F 27 | 18 23 8 | 5°50'04 | 21° 5 | 27°56 | 15°22 | 17°36 | 13°43 | 23°39 | 15°41 | 16°42 | 25° 9 | 12°42 | 14°12 | 21°32 | 15° 6 | F 27 |
| S 28 | 18 27 5 | 6°47'16 | 5 m 32 | 28°12 | 16°34 | 18° 9 | 13°36 | 23°35 | 15°40 | 16°41 | 25°11 | 12°44 | 14° 9 | 21°39 | 15° 4 | S 28 |
| S 29 | 18 31 1 | 7°44'28 | 19°35 | 28°24 | 17°47 | 18°42 | 13°28 | 23°31 | 15°38 | 16°39 | 25°12 | 12°45 | 14° 6 | 21°46 | 15° 1 | S 29 |
| M30 | 18 34 58 | 89541'40 | 3 ≏ 14 | 28932 | 19Ⅱ 0 | 19 M 15 | 13 る 20 | 23 × ⁷ 26 | 15 ≈ 36 | 16 ප 38 | 25 Ⅱ 14 | 12°R46 | 14 N 3 | 21 궁 52 | 14≈59 | M30 |

Delta T = 33.40 sec Greg. Calendar

JULY 1664 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)ұ(| ¥ | В | S. | ಬ | Ç | , к | Day |
|--------------|----------------------|----------------------|------------------------|-----------------|------------------------|-----------------|----------------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|-------------|
| T 1 | 18 38 54 | 9938'51 | 16 ≏ 31 | 28°R34 | 20 Ⅱ 13 | 19 m /49 | 13°R13 | 23°R22 | 15°R34 | 16°R36 | 25 Ⅱ 15 | 12°R46 | 14 Ω 0 | 21 궁 59 | 14°R57 | T 1 |
| W 2 | 18 42 51 | 10°36'02 | 29°28 | 28932 | 21°26 | 20°22 | 13 る 5 | 23 × 18 | 15 ≈ 33 | 16 ප 34 | 25°16 | 12 Ω 44 | 13°56 | 22° 6 | 14≈54 | W 2 |
| T 3 | 18 46 48 | 11°33'13 | 12 m 7 | 28°25 | 22°39 | 20°56 | 12°57 | 23°14 | 15°31 | 16°33 | 25°18 | 12°42 | 13°53 | 22°12 | 14°52 | T 3 |
| F 4 | 18 50 44 | 12°30'24 | 24°33 | 28°14 | 23°52 | 21°30 | 12°50 | 23°10 | 15°29 | 16°31 | 25°19 | 12°38 | 13°50 | 22°19 | 14°49 | F 4 |
| S 5 | 18 54 41 | 13°27'34 | 6 ₹ 46 | 27°58 | 25° 5 | 22° 3 | 12°42 | 23° 6 | 15°27 | 16°30 | 25°21 | 12°33 | 13°47 | 22°26 | 14°47 | S 5 |
| S 6 | 18 58 37 | 14°24'45 | 18°50 | 27°37 | 26°18 | 22°37 | 12°34 | 23° 2 | 15°25 | 16°28 | 25°22 | 12°28 | 13°44 | 22°32 | 14°44 | S 6 |
| M 7 | 19 2 34 | 15°21'57 | 0 궁 47 | 27°13 | 27°31 | 23°11 | 12°26 | 22°58 | 15°23 | 16°26 | 25°23 | 12°24 | 13°40 | 22°39 | 14°41 | M 7 |
| T 8 | 19 6 30 | 16°19'08 | 12°39 | 26°44 | 28°44 | 23°46 | 12°19 | 22°54 | 15°21 | 16°25 | 25°25 | 12°20 | 13°37 | 22°46 | 14°39 | T 8 |
| W 9 | 19 10 27 | 17°16'19 | 24°28 | 26°13 25°38 | 29°57 1 © 11 | 24°20 | 12°11 12° 3 | 22°50 | 15°19 | 16°23 16°21 | 25°26 | 12°18 | 13°34 | 22°52 22°59 | 14°36 14°33 | W 9 T 10 |
| T 10 F 11 | 19 14 23 19 18 20 | 18°13'31 19°10'44 | 6 ≈ 16 18° 5 | 25° 38 25° 1 | 2°24 | 24°55 25°29 | 11°56 | 22°47 22°43 | 15°17 15°15 | 16°21 | 25°27 25°29 | 12°16 12°D16 | 13°31 13°28 | 22°39 23° 6 | 14°33 | F 11 |
| S 12 | 19 18 20 | 20° 7'57 | 29°59 | 24°22 | 3°37 | 26° 4 | 11°48 | 22°39 | 15°13 | 16°18 | 25°30 | 12°17 | 13°25 | 23°12 | 14°28 | S 12 |
| | | | | | | - | | | | | | | | | | |
| S 13 | 19 26 13 | 21° 5'10 22° 2'24 | 12 米 0 | 23°41 23° 0 | 4°50 6° 3 | 26°39 | 11°41 | 22°36 | 15°11 15° 9 | 16°17 16°15 | 25°31 | 12°19 12°20 | 13°21 | 23°19 23°26 | 14°25 14°22 | S 13 |
| M14 T 15 | 19 30 10 19 34 6 | 22° 59'39 | 24°13 6 Ƴ 40 | 23° 0 22°19 | 7°17 | 27°14 27°49 | 11°33 11°26 | 22°32 22°29 | 15° 9 | 16°13 | 25°33 25°34 | 12°20 12°22 | 13°18 13°15 | 23°26 23°32 | 14°22 14°19 | M14 T 15 |
| W16 | 19 34 0 | 23°56'55 | 19°26 | 21°39 | 8°30 | 28°24 | 11°18 | 22°25 | 15° 5 | 16°12 | 25°35 | 12°R22 | 13°12 | 23°39 | 14°16 | W16 |
| T 17 | 19 41 59 | 24°54'11 | 2 8 35 | 21° 1 | 9°43 | 28°59 | 11°11 | 22°22 | 15° 2 | 16°10 | 25°37 | 12°22 | 13° 9 | 23°45 | 14°13 | T 17 |
| F 18 | 19 45 56 | 25°51'29 | 16° 9 | 20°25 | 10°57 | 29°34 | 11° 4 | 22°18 | 15° 0 | 16° 9 | 25°38 | 12°21 | 13° 6 | 23°52 | 14°10 | F 18 |
| S 19 | 19 49 52 | 26°48'47 | 0П10 | 19°51 | 12°10 | 0 ჲ 10 | 10°57 | 22°15 | 14°58 | 16° 7 | 25°39 | 12°20 | 13° 2 | 23°59 | 14° 7 | S 19 |
| S 20 | 19 53 49 | 27°46'06 | 14°37 | 19°22 | 13°24 | 0°45 | 10°49 | 22°12 | 14°56 | 16° 5 | 25°40 | 12°18 | 12°59 | 24° 5 | 14° 4 | S 20 |
| M21 | 19 57 46 | 28°43'27 | 29°25 | 18°56 | 14°37 | 1°21 | 10°42 | 22° 9 | 14°53 | 16° 4 | 25°42 | 12°16 | 12°56 | 24°12 | 14° 1 | M21 |
| T 22 | 20 1 42 | 29°40'48 | 149529 | 18°35 | 15°51 | 1°57 | 10°35 | 22° 6 | 14°51 | 16° 2 | 25°43 | 12°15 | 12°53 | 24°19 | 13°58 | T 22 |
| W23 | 20 5 39 | $0\Omega 38'10$ | 29°40 | 18°20 | 17° 4 | 2°33 | 10°29 | 22° 3 | 14°49 | 16° 1 | 25°44 | 12°14 | 12°50 | 24°25 | 13°55 | W23 |
| T 24 | 20 9 35 | 1°35'32 | 14 Ω 49 | 18° 9 | 18°18 | 3° 9 | 10°22 | 22° 0 | 14°47 | 15°59 | 25°45 | 12°D14 | 12°46 | 24°32 | 13°52 | T 24 |
| F 25 | 20 13 32 | 2°32'56 | 29°46 | 18°D 5 | 19°31 | 3°45 | 10°15 | 21°57 | 14°44 | 15°58 | 25°46 | 12°14 | 12°43 | 24°39 | 13°49 | F 25 |
| S 26 | 20 17 28 | 3°30'20 | 14 m)24 | 18° 7 | 20°45 | 4°21 | 10° 9 | 21°54 | 14°42 | 15°56 | 25°48 | 12°15 | 12°40 | 24°45 | 13°46 | S 26 |
| S 27 | 20 21 25 | 4°27'45 | 28°39 | 18°14 | 21°59 | 4°58 | 10° 2 | 21°52 | 14°40 | 15°55 | 25°49 | 12°16 | 12°37 | 24°52 | 13°42 | S 27 |
| M28 | 20 25 21 | 5°25'10 | 12 ≏ 27 | 18°29 | 23°12 | 5°34 | 9°56 | 21°49 | 14°37 | 15°53 | 25°50 | 12°16 | 12°34 | 24°59 | 13°39 | M28 |
| T 29 | 20 29 18 | 6°22'36 | 25°49 | 18°49 | 24°26 | 6°11 | 9°50 | 21°47 | 14°35 | 15°52 | 25°51 | 12°17 | 12°31 | 25° 5 | 13°36 | T 29 |
| W30 | 20 33 15 | 7°20'03 | 8M48 | 19°16 | 25°40 | 6°48 | 9°44 | 21°44 | 14°33 | 15°50 | 25°52 | 12°R17 | 12°27 | 25°12 | 13°33 | W30 |
| T 31 | 20 37 11 | 8 Ω 17'30 | 21 M 25 | 19950 | 26953 | 7 ≏ 24 | 9 ට 38 | 21 × 742 | 14≈30 | 15 る 49 | 25耳53 | 12 Ω 17 | 12 Ω 24 | 25 る 19 | 13 ≈ 30 | T 31 |

Delta T = 33.34 sec Greg. Calendar

AUGUST 1664 GC 00:00 UT

| Day | Sid.t | 0 |)) | φ | Q | ď | 4 | ħ |)ұ(| ¥ | P 2 | n | Ω | ţ | Š | Day |
|------|----------|------------------|----------------|------------------|---------------|----------------|---------------|----------------|----------------|----------------|-------|-----------------|----------------|----------------|----------------|------|
| F 1 | 20 41 8 | 9 Ω 14'58 | 3 ∡ 745 | 20930 | 2895 7 | 8 亞 1 | 9°R32 | 21°R40 | 14°R28 | 15°R47 | 25耳55 | 12°R16 | 12 Ω 21 | 25 る 25 | 13°R27 | F 1 |
| S 2 | 20 45 4 | 10°12'27 | 15°52 | 21°17 | 29°21 | 8°38 | 9 ප 26 | 21 × 37 | 14 ≈ 25 | 15 る 46 | 25°56 | 12 \O 16 | 12°18 | 25°32 | 13 ≈ 23 | S 2 |
| S 3 | 20 49 1 | 11° 9'57 | 27°49 | 22° 9 | 0Ω35 | 9°15 | 9°21 | 21°35 | 14°23 | 15°44 | 25°57 | 12°16 | 12°15 | 25°39 | 13°20 | S 3 |
| M 4 | 20 52 57 | 12° 7'28 | 9 る 40 | 23° 8 | 1°49 | 9°52 | 9°15 | 21°33 | 14°21 | 15°43 | 25°58 | 12°D16 | 12°12 | 25°45 | 13°17 | M 4 |
| T 5 | 20 56 54 | 13° 5'00 | 21°29 | 24°13 | 3° 2 | 10°30 | 9°10 | 21°31 | 14°18 | 15°41 | 25°59 | 12°16 | 12° 8 | 25°52 | 13°14 | T 5 |
| W 6 | 21 0 50 | 14° 2'32 | 3≈17 | 25°24 | 4°16 | 11° 7 | 9° 5 | 21°30 | 14°16 | 15°40 | 26° 0 | 12°16 | 12° 5 | 25°59 | 13°11 | W 6 |
| T 7 | 21 447 | 15° 0'06 | 15° 8 | 26°41 | 5°30 | 11°45 | 9° 0 | 21°28 | 14°13 | 15°39 | 26° 1 | 12°R16 | 12° 2 | 26° 5 | 13° 7 | T 7 |
| F 8 | 21 8 44 | 15°57'42 | 27° 3 | 28° 3 | 6°44 | 12°22 | 8°55 | 21°26 | 14°11 | 15°37 | 26° 2 | 12°16 | 11°59 | 26°12 | 13° 4 | F 8 |
| S 9 | 21 12 40 | 16°55'18 | 9 米 6 | 29°30 | 7°58 | 13° 0 | 8°50 | 21°25 | 14° 9 | 15°36 | 26° 3 | 12°16 | 11°56 | 26°18 | 13° 1 | S 9 |
| S 10 | 21 16 37 | 17°52'56 | 21°17 | 1 Ω 2 | 9°12 | 13°37 | 8°46 | 21°23 | 14° 6 | 15°35 | 26° 4 | 12°15 | 11°52 | 26°25 | 12°58 | S 10 |
| M11 | 21 20 33 | 18°50'35 | 3 Ƴ 39 | 2°38 | 10°26 | 14°15 | 8°42 | 21°22 | 14° 4 | 15°33 | 26° 5 | 12°14 | 11°49 | 26°32 | 12°55 | M11 |
| T 12 | 21 24 30 | 19°48'15 | 16°15 | 4°18 | 11°40 | 14°53 | 8°37 | 21°20 | 14° 2 | 15°32 | 26° 6 | 12°13 | 11°46 | 26°38 | 12°51 | T 12 |
| W13 | 21 28 26 | 20°45'58 | 29° 6 | 6° 2 | 12°54 | 15°31 | 8°33 | 21°19 | 13°59 | 15°31 | 26° 7 | 12°13 | 11°43 | 26°45 | 12°48 | W13 |
| T 14 | 21 32 23 | 21°43'41 | 12816 | 7°50 | 14° 8 | 16° 9 | 8°30 | 21°18 | 13°57 | 15°30 | 26° 8 | 12°12 | 11°40 | 26°52 | 12°45 | T 14 |
| F 15 | 21 36 19 | 22°41'27 | 25°46 | 9°40 | 15°22 | 16°48 | 8°26 | 21°17 | 13°54 | 15°28 | 26° 8 | 12°D12 | 11°37 | 26°58 | 12°42 | F 15 |
| S 16 | 21 40 16 | 23°39'14 | 9 Ⅱ 37 | 11°33 | 16°37 | 17°26 | 8°22 | 21°16 | 13°52 | 15°27 | 26° 9 | 12°12 | 11°33 | 27° 5 | 12°39 | S 16 |
| S 17 | 21 44 13 | 24°37'03 | 23°49 | 13°27 | 17°51 | 18° 4 | 8°19 | 21°15 | 13°50 | 15°26 | 26°10 | 12°13 | 11°30 | 27°12 | 12°36 | S 17 |
| M18 | 21 48 9 | 25°34'54 | 89्21 | 15°23 | 19° 5 | 18°43 | 8°16 | 21°15 | 13°47 | 15°25 | 26°11 | 12°14 | 11°27 | 27°18 | 12°33 | M18 |
| T 19 | 21 52 6 | 26°32'47 | 23° 9 | 17°21 | 20°19 | 19°21 | 8°13 | 21°14 | 13°45 | 15°24 | 26°12 | 12°15 | 11°24 | 27°25 | 12°29 | T 19 |
| W20 | 21 56 2 | 27°30'41 | 8Ω 6 | 19°19 | 21°33 | 20° 0 | 8°10 | 21°13 | 13°43 | 15°23 | 26°13 | 12°R15 | 11°21 | 27°32 | 12°26 | W20 |
| T 21 | 21 59 59 | 28°28'37 | 23° 7 | 21°18 | 22°48 | 20°39 | 8° 8 | 21°13 | 13°40 | 15°22 | 26°13 | 12°15 | 11°18 | 27°38 | 12°23 | T 21 |
| F 22 | 22 3 55 | 29°26'35 | 8 m) 1 | 23°17 | 24° 2 | 21°18 | 8° 5 | 21°13 | 13°38 | 15°20 | 26°14 | 12°14 | 11°14 | 27°45 | 12°20 | F 22 |
| S 23 | 22 7 52 | 0 m 24′33 | 22°41 | 25°16 | 25°16 | 21°57 | 8° 3 | 21°12 | 13°36 | 15°19 | 26°15 | 12°12 | 11°11 | 27°52 | 12°17 | S 23 |
| S 24 | 22 11 48 | 1°22'34 | 7 ♀ 1 | 27°15 | 26°31 | 22°36 | 8° 1 | 21°12 | 13°34 | 15°18 | 26°16 | 12°10 | 11° 8 | 27°58 | 12°14 | S 24 |
| M25 | 22 15 45 | 2°20'35 | 20°56 | 29°13 | 27°45 | 23°15 | 7°59 | 21°D12 | 13°31 | 15°17 | 26°16 | 12° 7 | 11° 5 | 28° 5 | 12°11 | M25 |
| T 26 | 22 19 41 | 3°18'39 | 4ML25 | 1 m p 1 1 | 29° 0 | 23°54 | 7°58 | 21°12 | 13°29 | 15°17 | 26°17 | 12° 5 | 11° 2 | 28°11 | 12° 9 | T 26 |
| W27 | 22 23 38 | 4°16'43 | 17°27 | 3° 8 | 0 m 14 | 24°33 | 7°56 | 21°12 | 13°27 | 15°16 | 26°18 | 12° 3 | 10°58 | 28°18 | 12° 6 | W27 |
| T 28 | 22 27 35 | 5°14'49 | 0 ,₹ 7 | 5° 4 | 1°28 | 25°13 | 7°55 | 21°12 | 13°25 | 15°15 | 26°18 | 12°D 2 | 10°55 | 28°25 | 12° 3 | T 28 |
| F 29 | 22 31 31 | 6°12'57 | 12°27 | 6°59 | 2°43 | 25°52 | 7°54 | 21°13 | 13°23 | 15°14 | 26°19 | 12° 2 | 10°52 | 28°31 | 12° 0 | F 29 |
| S 30 | 22 35 28 | 7°11'06 | 24°31 | 8°54 | 3°57 | 26°32 | 7°53 | 21°13 | 13°21 | 15°13 | 26°19 | 12° 3 | 10°49 | 28°38 | 11°57 | S 30 |
| S 31 | 22 39 24 | 8Mp 9'16 | 6 පි 26 | 10 M)47 | 5 m 12 | 27 ₽ 11 | 7 る 52 | 21 × 14 | 13 ≈ 19 | 15 る 12 | 26Ⅱ20 | 12 N 5 | 10 Ω 46 | 28 궁 45 | 11 ≈ 54 | S 31 |

Delta T = 33.29 sec

SEPTEMBER 1664 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | Q. | ♂ | 4 | ħ |)ұ(| 卉 | В | u | ß | Ç | o k | Day |
|------|----------|-------------------|----------------|----------------|----------------|----------------|---------------|----------------|--------|----------------|--------|---------------|----------------|----------------|----------------|------|
| M 1 | 22 43 21 | 9 m) 7'28 | 18 궁 15 | 12 m 39 | 6Mp26 | 27 ≏ 51 | 7°R52 | 21 × 14 | 13°R16 | 15°R11 | 26Ⅲ21 | 12 N 6 | 10 Ω 43 | 28 궁 51 | 11°R52 | M 1 |
| T 2 | 22 47 17 | 10° 5'42 | 0≈ 3 | 14°30 | 7°41 | 28°31 | 7 ප 51 | 21°15 | 13≈14 | 15 る 11 | 26°21 | 12° 8 | 10°39 | 28°58 | 11 ≈ 49 | T 2 |
| W 3 | 22 51 14 | 11° 3'57 | 11°53 | 16°20 | 8°55 | 29°11 | 7°D51 | 21°16 | 13°12 | 15°10 | 26°22 | 12°R 8 | 10°36 | 29° 5 | 11°46 | W 3 |
| T 4 | 22 55 10 | 12° 2'14 | 23°50 | 18° 8 | 10°10 | 29°51 | 7°51 | 21°17 | 13°10 | 15° 9 | 26°22 | 12° 8 | 10°33 | 29°11 | 11°44 | T 4 |
| F 5 | 22 59 7 | 13° 0'32 | 5 ¥ 55 | 19°56 | 11°24 | 0 M .31 | 7°52 | 21°18 | 13° 8 | 15° 8 | 26°23 | 12° 6 | 10°30 | 29°18 | 11°41 | F 5 |
| S 6 | 23 3 4 | 13°58'53 | 18°10 | 21°42 | 12°39 | 1°11 | 7°52 | 21°19 | 13° 6 | 15° 8 | 26°23 | 12° 2 | 10°27 | 29°25 | 11°39 | S 6 |
| S 7 | 23 7 0 | 14°57'15 | 0 Ƴ 37 | 23°28 | 13°54 | 1°51 | 7°53 | 21°20 | 13° 4 | 15° 7 | 26°23 | 11°57 | 10°23 | 29°31 | 11°36 | S 7 |
| M 8 | 23 10 57 | 15°55'39 | 13°16 | 25°12 | 15° 8 | 2°32 | 7°53 | 21°21 | 13° 3 | 15° 7 | 26°24 | 11°51 | 10°20 | 29°38 | 11°34 | M 8 |
| T 9 | 23 14 53 | 16°54'05 | 26° 8 | 26°55 | 16°23 | 3°12 | 7°55 | 21°23 | 13° 1 | 15° 6 | 26°24 | 11°46 | 10°17 | 29°45 | 11°31 | T 9 |
| W10 | 23 18 50 | 17°52'33 | 9 8 14 | 28°37 | 17°38 | 3°52 | 7°56 | 21°24 | 12°59 | 15° 5 | 26°25 | 11°40 | 10°14 | 29°51 | 11°29 | W10 |
| T 11 | 23 22 46 | 18°51'04 | 22°33 | 0 ჲ 18 | 18°52 | 4°33 | 7°57 | 21°26 | 12°57 | 15° 5 | 26°25 | 11°36 | 10°11 | 29°58 | 11°27 | T 11 |
| F 12 | 23 26 43 | 19°49'36 | 6 I I 6 | 1°58 | 20° 7 | 5°14 | 7°59 | 21°27 | 12°55 | 15° 4 | 26°25 | 11°34 | 10° 8 | 0≈ 4 | 11°24 | F 12 |
| S 13 | 23 30 39 | 20°48'11 | 19°53 | 3°37 | 21°22 | 5°54 | 8° 1 | 21°29 | 12°54 | 15° 4 | 26°26 | 11°D33 | 10° 4 | 0°11 | 11°22 | S 13 |
| S 14 | 23 34 36 | 21°46'48 | 3954 | 5°14 | 22°36 | 6°35 | 8° 3 | 21°31 | 12°52 | 15° 4 | 26°26 | 11°33 | 10° 1 | 0°18 | 11°20 | S 14 |
| M15 | 23 38 33 | 22°45'28 | 18° 9 | 6°51 | 23°51 | 7°16 | 8° 5 | 21°33 | 12°50 | 15° 3 | 26°26 | 11°35 | 9°58 | 0°24 | 11°18 | M15 |
| T 16 | 23 42 29 | 23°44'09 | 2Ω 35 | 8°27 | 25° 6 | 7°57 | 8° 7 | 21°35 | 12°49 | 15° 3 | 26°26 | 11°36 | 9°55 | 0°31 | 11°16 | T 16 |
| W17 | 23 46 26 | 24°42'53 | 17°10 | 10° 2 | 26°21 | 8°38 | 8°10 | 21°37 | 12°47 | 15° 3 | 26°27 | 11°R36 | 9°52 | 0°38 | 11°14 | W17 |
| T 18 | 23 50 22 | 25°41'39 | 1 M 49 | 11°36 | 27°35 | 9°19 | 8°12 | 21°39 | 12°45 | 15° 2 | 26°27 | 11°34 | 9°49 | 0°44 | 11°12 | T 18 |
| F 19 | 23 54 19 | 26°40'27 | 16°26 | 13° 9 | 28°50 | 10° 0 | 8°15 | 21°42 | 12°44 | 15° 2 | 26°27 | 11°31 | 9°45 | 0°51 | 11°10 | F 19 |
| S 20 | 23 58 15 | 27°39'17 | 0 ≏ 54 | 14°41 | 0 쇼 5 | 10°42 | 8°18 | 21°44 | 12°42 | 15° 2 | 26°27 | 11°25 | 9°42 | 0°58 | 11° 8 | S 20 |
| S 21 | 0 2 12 | 28°38'10 | 15° 7 | 16°12 | 1°20 | 11°23 | 8°22 | 21°47 | 12°41 | 15° 2 | 26°27 | 11°17 | 9°39 | 1° 4 | 11° 6 | S 21 |
| M22 | 0 6 8 | 29°37'04 | 29° 0 | 17°42 | 2°35 | 12° 4 | 8°25 | 21°49 | 12°40 | 15° 1 | 26°27 | 11° 9 | 9°36 | 1°11 | 11° 4 | M22 |
| T 23 | 0 10 5 | 0 ჲ 36'00 | 12 M 29 | 19°11 | 3°50 | 12°46 | 8°29 | 21°52 | 12°38 | 15° 1 | 26°27 | 11° 2 | 9°33 | 1°18 | 11° 3 | T 23 |
| W24 | 0 14 1 | 1°34'57 | 25°34 | 20°40 | 5° 4 | 13°28 | 8°33 | 21°55 | 12°37 | 15° 1 | 26°27 | 10°55 | 9°29 | 1°24 | 11° 1 | W24 |
| T 25 | 0 17 58 | 2°33'57 | 8 ∡ 15 | 22° 7 | 6°19 | 14° 9 | 8°37 | 21°58 | 12°36 | 15° 1 | 26°27 | 10°50 | 9°26 | 1°31 | 11° 0 | T 25 |
| F 26 | 0 21 55 | 3°32'59 | 20°36 | 23°33 | 7°34 | 14°51 | 8°41 | 22° 1 | 12°34 | 15°D 1 | 26°R27 | 10°47 | 9°23 | 1°38 | 10°58 | F 26 |
| S 27 | 0 25 51 | 4°32'02 | 2 る 42 | 24°59 | 8°49 | 15°33 | 8°45 | 22° 4 | 12°33 | 15° 1 | 26°27 | 10°D46 | 9°20 | 1°44 | 10°57 | S 27 |
| S 28 | 0 29 48 | 5°31'07 | 14°36 | 26°23 | 10° 4 | 16°15 | 8°50 | 22° 7 | 12°32 | 15° 1 | 26°27 | 10°46 | 9°17 | 1°51 | 10°55 | S 28 |
| M29 | 0 33 44 | 6°30'14 | 26°25 | 27°46 | 11°19 | 16°57 | <u>8°54</u> | 22°10 | 12°31 | 1 <u>5°</u> 1 | 26°27 | 10°47 | 9°14 | 1°57 | 10°54 | M29 |
| T 30 | 0 37 41 | 7 ≏ 29'22 | 8 ≈ 13 | 29 º 9 | 12 ≏ 34 | 17 M 39 | 8 궁 59 | 22 × 13 | 12≈30 | 15 ට 1 | 26∏27 | 10°R48 | 9 Ω 10 | 2≈ 4 | 10≈52 | T 30 |

Delta T = 33.23 sec Greg. Calendar

OCTOBER 1664 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | P | o [™] | 4 | ħ |)f(| ¥ | В | ¥ | ಬ | Ç | ę, | Day |
|------|---------|-------------------|------------------|-----------------|-----------------|----------------|----------------|-----------------|--------|----------------|--------|----------------|----------------|------|--------|------|
| W 1 | 0 41 37 | 8 ₾ 28'33 | 20≈ 6 | 0 M .30 | 13 ≏ 49 | 18 M 21 | 9 る 4 | 22 × 17 | 12°R29 | 15る 2 | 26°R27 | 10°R47 | 9 N 7 | 2≈11 | 10°R51 | W 1 |
| T 2 | 0 45 34 | 9°27'45 | 2) 8 | 1°50 | 15° 4 | 19° 3 | 9°10 | 22°20 | 12≈28 | 15° 2 | 26Ⅲ27 | 10 Ω 45 | 9° 4 | 2°17 | 10≈50 | T 2 |
| F 3 | 0 49 30 | 10°26'59 | 14°22 | 3° 9 | 16°18 | 19°46 | 9°15 | 22°24 | 12°27 | 15° 2 | 26°27 | 10°40 | 9° 1 | 2°24 | 10°49 | F 3 |
| S 4 | 0 53 27 | 11°26'15 | 26°51 | 4°26 | 17°33 | 20°28 | 9°21 | 22°27 | 12°26 | 15° 2 | 26°27 | 10°33 | 8°58 | 2°31 | 10°48 | S 4 |
| S 5 | 0 57 24 | 12°25'33 | 9 Y 36 | 5°42 | 18°48 | 21°10 | 9°26 | 22°31 | 12°25 | 15° 3 | 26°26 | 10°23 | 8°54 | 2°37 | 10°47 | S 5 |
| M 6 | 1 1 20 | 13°24'54 | 22°37 | 6°57 | 20° 3 | 21°53 | 9°32 | 22°35 | 12°24 | 15° 3 | 26°26 | 10°13 | 8°51 | 2°44 | 10°46 | M 6 |
| T 7 | 1 5 17 | 14°24'16 | 5 8 52 | 8°11 | 21°18 | 22°36 | 9°38 | 22°39 | 12°24 | 15° 3 | 26°26 | 10° 1 | 8°48 | 2°51 | 10°45 | T 7 |
| W 8 | 1 9 13 | 15°23'40 | 19°20 | 9°22 | 22°33 | 23°18 | 9°44 | 22°43 | 12°23 | 15° 4 | 26°26 | 9°51 | 8°45 | 2°57 | 10°44 | W 8 |
| T 9 | 1 13 10 | 16°23'07 | 2Д59 | 10°32 | 23°48 | 24° 1 | 9°51 | 22°47 | 12°22 | 15° 4 | 26°25 | 9°42 | 8°42 | 3° 4 | 10°44 | T 9 |
| F 10 | 1 17 6 | 17°22'36 | 16°47 | 11°40 | 25° 3 | 24°44 | 9°57 | 22°51 | 12°22 | 15° 4 | 26°25 | 9°36 | 8°39 | 3°11 | 10°43 | F 10 |
| S 11 | 1 21 3 | 18°22'07 | 09541 | 12°46 | 26°18 | 25°27 | 10° 4 | 22°55 | 12°21 | 15° 5 | 26°25 | 9°33 | 8°35 | 3°17 | 10°42 | S 11 |
| S 12 | 1 24 59 | 19°21'41 | 14°41 | 13°50 | 27°33 | 26°10 | 10°11 | 22°59 | 12°21 | 15° 5 | 26°24 | 9°D32 | 8°32 | 3°24 | 10°42 | S 12 |
| M13 | 1 28 56 | 20°21'17 | 28°46 | 14°51 | 28°48 | 26°53 | 10°18 | 23° 4 | 12°20 | 15° 6 | 26°24 | 9°32 | 8°29 | 3°30 | 10°41 | M13 |
| T 14 | 1 32 53 | 21°20'55 | $12\Omega55$ | 15°50 | OM 3 | 27°36 | 10°25 | 23° 8 | 12°20 | 15° 7 | 26°24 | 9°R32 | 8°26 | 3°37 | 10°41 | T 14 |
| W15 | 1 36 49 | 22°20'36 | 27° 8 | 16°45 | 1°18 | 28°19 | 10°32 | 23°13 | 12°20 | 15° 7 | 26°23 | 9°31 | 8°23 | 3°44 | 10°41 | W15 |
| T 16 | 1 40 46 | 23°20'19 | 11 Mp 21 | 17°38 | 2°33 | 29° 2 | 10°40 | 23°17 | 12°19 | 15° 8 | 26°23 | 9°27 | 8°20 | 3°50 | 10°40 | T 16 |
| F 17 | 1 44 42 | 24°20'04 | 25°32 | 18°26 | 3°48 | 29°45 | 10°47 | 23°22 | 12°19 | 15° 8 | 26°22 | 9°21 | 8°16 | 3°57 | 10°40 | F 17 |
| S 18 | 1 48 39 | 25°19'51 | 9 ॒ 37 | 19°11 | 5° 3 | 0 ∡ 29 | 10°55 | 23°27 | 12°19 | 15° 9 | 26°22 | 9°12 | 8°13 | 4° 4 | 10°40 | S 18 |
| S 19 | 1 52 35 | 26°19'40 | 23°31 | 19°51 | 6°18 | 1°12 | 11° 3 | 23°31 | 12°19 | 15°10 | 26°21 | 9° 1 | 8°10 | 4°10 | 10°D40 | S 19 |
| M20 | 1 56 32 | 27°19'32 | 7 M _10 | 20°27 | 7°33 | 1°56 | 11°11 | 23°36 | 12°18 | 15°11 | 26°21 | 8°48 | 8° 7 | 4°17 | 10°40 | M20 |
| T 21 | 2 0 28 | 28°19'25 | 20°29 | 20°56 | 8°48 | 2°39 | 11°19 | 23°41 | 12°18 | 15°12 | 26°20 | 8°36 | 8° 4 | 4°24 | 10°40 | T 21 |
| W22 | 2 4 25 | 29°19'20 | 3 ∡ 129 | 21°20 | 10° 3 | 3°23 | 11°27 | 23°46 | 12°D18 | 15°12 | 26°20 | 8°24 | 8° 0 | 4°30 | 10°40 | W22 |
| T 23 | 2 8 22 | 0 M .19'17 | 16° 8 | 21°37 | 11°18 | 4° 7 | 11°36 | 23°51 | 12°18 | 15°13 | 26°19 | 8°15 | 7°57 | 4°37 | 10°40 | T 23 |
| F 24 | 2 12 18 | 1°19'16 | 28°28 | 21°47 | 12°33 | 4°51 | 11°44 | 23°56 | 12°19 | 15°14 | 26°19 | 8° 9 | 7°54 | 4°44 | 10°41 | F 24 |
| S 25 | 2 16 15 | 2°19'16 | 10 궁 33 | 21°R50 | 13°48 | 5°35 | 11°53 | 24° 1 | 12°19 | 15°15 | 26°18 | 8° 5 | 7°51 | 4°50 | 10°41 | S 25 |
| S 26 | 2 20 11 | 3°19'18 | 22°27 | 21°43 | 15° 3 | 6°19 | 12° 2 | 24° 7 | 12°19 | 15°16 | 26°17 | 8° 3 | 7°48 | 4°57 | 10°41 | S 26 |
| M27 | 2 24 8 | 4°19'22 | 4≈16 | 21°28 | 16°18 | 7° 3 | 12°11 | 24°12 | 12°19 | 15°17 | 26°17 | 8° 3 | 7°45 | 5° 4 | 10°42 | M27 |
| T 28 | 2 28 4 | 5°19'27 | 16° 4 | 21° 4 | 17°33 | 7°47 | 12°20 | 24°17 | 12°19 | 15°18 | 26°16 | 8° 3 | 7°41 | 5°10 | 10°43 | T 28 |
| W29 | 2 32 1 | 6°19'34 | 27°58 | 20°29 | 18°48 | 8°31 | 12°29 | 24°23 | 12°20 | 15°19 | 26°15 | 8° 2 | 7°38 | 5°17 | 10°43 | W29 |
| T 30 | 2 35 57 | 7°19'43 | 10 米 2 | 19°46 | 20° 3 | 9°15 | 12°38 | 24°28 | 12°20 | 15°20 | 26°15 | 7°59 | 7°35 | 5°23 | 10°44 | T 30 |
| F 31 | 2 39 54 | 8M19'53 | 22) (22 | 18 M .53 | 21 m .18 | 9 ,₹ 59 | 12 る 48 | 24 ∡ ³34 | 12≈21 | 15 る 21 | 26∏14 | 7 Ω 53 | $7\Omega_{32}$ | 5≈30 | 10≈45 | F 31 |

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NOVEMBER 1664 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)∤(| ¥ | В | U | v | ţ | ę, | Day |
|--|--|---|---|---|---|--|---|---|---|---|---|--|--|--|---|--|
| S 1 | 2 43 51 | 9 M 20'04 | 5 Υ 0 | 17°R51 | 22 M 33 | 10 ×7 44 | 12 る 57 | 24 × 39 | 12 ≈ 21 | 15 る 23 | 26°R13 | 7°R45 | $7\Omega_{29}$ | 5≈37 | 10≈45 | S 1 |
| S 2 | 2 47 47 | 10°20'18 | 17°59 | 16M42 | 23°48 | 11°28 | 13° 7 | 24°45 | 12°22 | 15°24 | 26¶12 | 7 Ω 34 | 7°26 | 5°43 | 10°46 | S 2 |
| M 3 | 2 51 44 | 11°20'32 | 1 8 19 | 15°27 | 25° 3 | 12°12 | 13°17 | 24°51 | 12°22 | 15°25 | 26°12 | 7°22 | 7°22 | 5°50 | 10°47 | M 3 |
| T 4 | 2 55 40 | 12°20'49 | 14°58 | 14° 8 | 26°18 | 12°57 | 13°27 | 24°56 | 12°23 | 15°26 | 26°11 | 7° 9 | 7°19 | 5°57 | 10°48 | T 4 |
| W 5 | 2 59 37 | 13°21'08 | 28°52 | 12°49 | 27°33 | 13°41 | 13°37 | 25° 2 | 12°24 | 15°27 | 26°10 | 6°57 | 7°16 | 6° 3 | 10°49 | W 5 |
| T 6 | 3 3 33 | 14°21'28 | 12 ∏ 58 | 11°30 | 28°48 | 14°26 | 13°47 | 25° 8 | 12°25 | 15°29 | 26° 9 | 6°46 | 7°13 | 6°10 | 10°50 | T 6 |
| F 7 | 3 7 30 | 15°21'50 | 27°10 | 10°15 | 0 🗷 3 | 15°11 | 13°57 | 25°14 | 12°25 | 15°30 | 26° 8 | 6°39 | 7°10 | 6°17 | 10°52 | F 7 |
| S 8 | 3 11 26 | 16°22'14 | 11 © 24 | 9° 6 | 1°18 | 15°56 | 14° 8 | 25°20 | 12°26 | 15°31 | 26° 7 | 6°34 | 7° 6 | 6°23 | 10°53 | S 8 |
| S 9 | 3 15 23 | 17°22'40 | 25°37 | 8° 6 | 2°33 | 16°40 | 14°18 | 25°26 | 12°27 | 15°33 | 26° 6 | 6°33 | 7° 3 | 6°30 | 10°54 | S 9 |
| M10 | 3 19 20 | 18°23'08 | 9 Ω 46 | 7°15 | 3°48 | 17°25 | 14°29 | 25°32 | 12°28 | 15°34 | 26° 6 | 6°D32 | 7° 0 | 6°37 | 10°56 | M10 |
| T 11 | 3 23 16 | 19°23'38 | 23°50 | 6°36 | 5°3 | 18°10 | 14°39 | 25°38 | 12°29 | 15°36 | 26° 5 | 6°R32 | 6°57 | 6°43 | 10°57 | T 11 |
| W12 | 3 27 13 | 20°24'10 | 7 m 49 | 6° 8 | 6°18 | 18°55 | 14°50 | 25°44 | 12°30 | 15°37 | 26° 4 | 6°31 | 6°54 | 6°50 | 10°59 | W12 |
| T 13 | 3 31 9 | 21°24'43 | 21°42 | 5°52 | 7°33 | 19°40 | 15° 1 | 25°51 | 12°31 | 15°39 | 26° 3 | 6°28 | 6°51 | 6°56 | 11° 0 | T 13 |
| F 14 | 3 35 6 | 22°25'18 | 5 Ω 29 | 5°D47 | 8°48 | 20°25 | 15°12 | 25°57 | 12°32 | 15°40 | 26° 2 | 6°22 | 6°47 | 7° 3 | 11° 2 | F 14 |
| S 15 | 3 39 2 | 23°25'55 | 19° 7 | 5°53 | 10°3 | 21°11 | 15°23 | 26° 3 | 12°34 | 15°42 | 26° 1 | 6°13 | 6°44 | 7°10 | 11° 3 | S 15 |
| S 16 | 3 42 59 | 24°26'34 | 2M35 | 6°10 | 11°18 | 21°56 | 15°34 | 26° 9 | 12°35 | 15°43 | 26° 0 | 6° 2 | 6°41 | 7°16 | 11° 5 | S 16 |
| M17 | 3 46 55 | 25°27'14 | 15°51 | 6°36 | 12°33 | 22°41 | 15°46 | 26°16 | 12°36 | 15°45 | 25°59 | 5°50 | 6°38 | 7°23 | 11° 7 | M17 |
| T 18 | 3 50 52 | 26°27'56 | 28°53 | 7°10 | 13°48 | 23°26 | 15°57 | 26°22 | 12°38 | 15°46 | 25°58 | 5°37 | 6°35 | 7°30 | 11° 9 | T 18 |
| W19 | 3 54 49 | 27°28'39 | 11√38 | 7°52 | 15° 3 | 24°12 | 16° 9 | 26°29 | 12°39 | 15°48 | 25°57 | 5°26 | 6°32 | 7°36 | 11°11 | W19 |
| T 20 | 3 58 45 | 28°29'24 | 24°8 | 8°41 | 16°18 | 24°57 | 16°20 | 26°35 | 12°40 | 15°50 | 25°56 | 5°16 | 6°28 | 7°43 | 11°13 | T 20 |
| F 21 | 4 2 42 | 29°30'09 | 6♂23 | 9°36 | 17°33 | 25°43 | 16°32 | 26°42 | 12°42 | 15°51 | 25°55 | 5°10 | 6°25 | 7°50 | 11°15 | F 21 |
| S 22 | 4 6 38 | 0\$\mathrm{2}\$30'56 | 18°25 | 10°36 | 18°48 | 26°28 | 16°44 | 26°48 | 12°44 | 15°53 | 25°54 | 5° 6 | 6°22 | 7°56 | 11°17 | S 22 |
| S 23 M24 T 25 W26 T 27 F 28 S 29 S 30 | 4 10 35 4 14 31 4 18 28 4 22 24 4 26 21 4 30 18 4 34 14 4 38 11 | 1°31'44 2°32'33 3°33'23 4°34'14 5°35'06 6°35'58 7°36'52 | 0≈18 12° 5 23°52 5¥45 17°48 0° 7 12°47 25°51 | 11°41 12°50 14° 2 15°17 16°34 17°54 19°15 | 20° 3 21°18 22°33 23°48 25° 3 26°18 27°33 | 27°14 28° 0 28°45 29°31 0\overline{\overline{1}}17 1° 3 1°49 2\overline{\overline{1}}35 | 16°55 17° 7 17°19 17°31 17°44 17°56 18° 8 | 26°55 27° 1 27° 8 27°15 27°22 27°28 27°35 | 12°45 12°47 12°48 12°50 12°52 12°54 12°56 | 15°55 15°57 15°58 16°0 16°2 16°4 16°6 | 25°53 25°52 25°50 25°49 25°48 25°47 25°46 | 5°D 4 5° 4 5° 5 5°R 5 5° 5 5° 2 4°56 | 6°19 6°16 6°12 6°9 6°6 6°3 6°0 | 8° 3 8°10 8°16 8°23 8°29 8°36 8°43 | 11°19 11°22 11°24 11°26 11°29 11°31 11°34 | S 23 M24 T 25 W26 T 27 F 28 S 29 S 30 |

Delta T = 33.12 sec

Greg. Calendar

| DECEMBER 1664 GC | 00:00 UT |
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| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)∤(| ħ | В | U | S | Ç | ę, | Day |
|----------------------------|--|--|---------------------------------------|---------------------------------------|------------------------------|----------------------------------|----------------------------------|-------------------------------|----------------------------------|-----------------------------------|------------------------------------|---------------------------------------|---------------------------------------|----------------------------------|----------------------------------|----------------------------|
| M 1 | 4 42 7 | 9 ∡ 38'41 | 9 8 20 | 22 M 2 | 0 る 3 | 3 ♂ 21 | 18 る 33 | 27 ₹ 49 | 13≈ 0 | 16 궁 10 | 25°R44 | 4°R40 | 5 Ω 53 | 8≈56 | 11 ≈ 39 | M 1 |
| T 2 | 4 46 4 | 10°39'37 | 23°13 | 23°28 | 1°18 | 4° 7 | 18°45 | 27°55 | 13° 2 | 16°11 | 25 Ⅱ 43 | 4 Ω 31 | 5°50 | 9°3 | 11°42 | T 2 |
| W 3 | 4 50 0 | 11°40'34 | 7 II 28 | 24°54 | 2°33 | 4°53 | 18°58 | 28° 2 | 13° 4 | 16°13 | 25°41 | 4°22 | 5°47 | 9°9 | 11°44 | W 3 |
| T 4 | 4 53 57 | 12°41'32 | 21°59 | 26°22 | 3°47 | 5°39 | 19°11 | 28° 9 | 13° 6 | 16°15 | 25°40 | 4°14 | 5°44 | 9°16 | 11°47 | T 4 |
| F 5 | 4 57 53 | 13°42'30 | 6938 | 27°50 | 5° 2 | 6°25 | 19°23 | 28°16 | 13° 8 | 16°17 | 25°39 | 4° 9 | 5°41 | 9°23 | 11°50 | F 5 |
| S 6 | 5 1 50 | 14°43'30 | 21°19 | 29°18 | 6°17 | 7°11 | 19°36 | 28°23 | 13°10 | 16°19 | 25°38 | 4° 6 | 5°37 | 9°29 | 11°53 | S 6 |
| S 7 | 5 5 47 | 15°44'31 | 5 \O 56 | 0 x ⁷ 47 | 7°32 | 7°58 | 19°49 | 28°30 | 13°12 | 16°21 | 25°37 | 4°D 5 | 5°34 | 9°36 | 11°56 | S 7 |
| M 8 | 5 9 43 | 16°45'33 | 20°23 | 2°17 | 8°47 | 8°44 | 20° 2 | 28°37 | 13°14 | 16°23 | 25°36 | 4° 6 | 5°31 | 9°43 | 11°59 | M 8 |
| T 9 | 5 13 40 | 17°46'36 | 4 \P 37 | 3°47 | 10° 2 | 9°30 | 20°15 | 28°44 | 13°17 | 16°25 | 25°34 | 4° 7 | 5°28 | 9°49 | 12° 2 | T 9 |
| W10 | 5 17 36 | 18°47'40 | 18°37 | 5°18 | 11°17 | 10°17 | 20°28 | 28°51 | 13°19 | 16°27 | 25°33 | 4°R 8 | 5°25 | 9°56 | 12° 5 | W10 |
| T 11 | 5 21 33 | 19°48'44 | 2 2 23 | 6°48 | 12°31 | 11° 3 | 20°41 | 28°58 | 13°21 | 16°30 | 25°32 | 4° 7 | 5°22 | 10° 3 | 12° 8 | T 11 |
| F 12 | 5 25 29 | 20°49'50 | 15°54 | 8°19 | 13°46 | 11°50 | 20°54 | 29° 5 | 13°24 | 16°32 | 25°31 | 4° 4 | 5°18 | 10° 9 | 12°11 | F 12 |
| S 13 | 5 29 26 | 21°50'57 | 29°13 | 9°51 | 15° 1 | 12°36 | 21° 7 | 29°12 | 13°26 | 16°34 | 25°30 | 4° 0 | 5°15 | 10°16 | 12°15 | S 13 |
| S 14 | 5 33 22 | 22°52'04 | 12M18 | 11°22 | 16°16 | 13°23 | 21°21 | 29°19 | 13°29 | 16°36 | 25°28 | 3°53 | 5°12 | 10°22 | 12°18 | S 14 |
| M15 | 5 37 19 | 23°53'12 | 25°10 | 12°54 | 17°31 | 14° 9 | 21°34 | 29°26 | 13°31 | 16°38 | 25°27 | 3°46 | 5° 9 | 10°29 | 12°21 | M15 |
| T 16 | 5 41 16 | 24°54'21 | 7₹50 | 14°26 | 18°46 | 14°56 | 21°47 | 29°33 | 13°34 | 16°40 | 25°26 | 3°38 | 5° 6 | 10°36 | 12°25 | T 16 |
| W17 | 5 45 12 | 25°55'31 | 20°17 | 15°59 | 20° 0 | 15°43 | 22° 1 | 29°40 | 13°36 | 16°42 | 25°25 | 3°32 | 5° 3 | 10°42 | 12°28 | W17 |
| T 18 | 5 49 9 | 26°56'41 | 2₹33 | 17°31 | 21°15 | 16°29 | 22°14 | 29°47 | 13°39 | 16°44 | 25°24 | 3°26 | 4°59 | 10°49 | 12°32 | T 18 |
| F 19 | 5 53 5 | 27°57'51 | 14°39 | 19°4 | 22°30 | 17°16 | 22°28 | 29°54 | 13°42 | 16°47 | 25°22 | 3°22 | 4°56 | 10°56 | 12°35 | F 19 |
| S 20 | 5 57 2 | 28°59'02 | 26°35 | 20°37 | 23°45 | 18° 3 | 22°41 | 0 3 1 | 13°44 | 16°49 | 25°21 | 3°21 | 4°53 | 11° 2 | 12°39 | S 20 |
| S 21 | 6 0 58 | 05 0'13 | 8≈25 | 22°10 | 24°59 | 18°50 | 22°55 | 0° 8 | 13°47 | 16°51 | 25°20 | 3°D20 | 4°50 | 11° 9 | 12°42 | S 21 |
| M22 | 6 4 55 | 1° 1'23 | 20°12 | 23°44 | 26°14 | 19°37 | 23° 8 | 0°15 | 13°50 | 16°53 | 25°19 | 3°22 | 4°47 | 11°16 | 12°46 | M22 |
| T 23 | 6 8 51 | 2° 2'34 | 1¥59 | 25°17 | 27°29 | 20°24 | 23°22 | 0°22 | 13°53 | 16°55 | 25°18 | 3°23 | 4°43 | 11°22 | 12°50 | T 23 |
| W24 | 6 12 48 | 3° 3'45 | 13°50 | 26°51 | 28°43 | 21°11 | 23°36 | 0°29 | 13°55 | 16°58 | 25°16 | 3°25 | 4°40 | 11°29 | 12°53 | W24 |
| T 25 | 6 16 45 | 4° 4'56 | 25°51 | 28°26 | 29°58 | 21°57 | 23°50 | 0°37 | 13°58 | 17° 0 | 25°15 | 3°27 | 4°37 | 11°36 | 12°57 | T 25 |
| F 26 | 6 20 41 | 5° 6'06 | 8℃ 7 | 0 る 0 | 1≈13 | 22°44 | 24° 3 | 0°44 | 14° 1 | 17° 2 | 25°14 | 3°R27 | 4°34 | 11°42 | 13° 1 | F 26 |
| S 27 | 6 24 38 | 6° 7'16 | 20°43 | 1°35 | 2°27 | 23°31 | 24°17 | 0°51 | 14° 4 | 17° 4 | 25°13 | 3°26 | 4°31 | 11°49 | 13° 5 | S 27 |
| S 28 M29 T 30 W31 | 6 28 34 6 32 31 6 36 27 6 40 24 | 7° 8'27 8° 9'36 9°10'46 10 る 11'56 | 3 8 42 17°8 1∏1 15∏21 | 3°10 4°46 6°22 7 ♂ 58 | 3°42 4°56 6°11 7≈25 | 24°18 25° 5 25°53 26♂40 | 24°31 24°45 24°59 25♂13 | 0°58 1°12 1 ℃ 19 | 14° 7 14°10 14°13 14≈16 | 17° 7 17° 11 17 ් 13 | 25°12 25°11 25° 9 25 II 8 | 3°24 3°20 3°17 3 Ω 13 | 4°28 4°24 4°21 4 Ω 18 | 11°56 12° 2 12° 9 12≈15 | 13° 8 13°12 13°16 13≈20 | S 28 M29 T 30 W31 |

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JANUARY 1665 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| ¥ | В | V | ß | Ç | ķ | Day |
|------|---------|-------------------|------------------|---------------|----------------|----------------|----------------|---------------|-------|----------------|-----------------|--------------|---------------|-------|----------------|------|
| T 1 | 6 44 20 | 11 る 13'05 | 099 3 | 9 ට 35 | 8≈40 | 27 る 27 | 25 る 27 | 1 云 26 | 14≈19 | 17 ට 16 | 25°R 7 | 3°R10 | 4 Ω 15 | 12≈22 | 13≈24 | T 1 |
| F 2 | 6 48 17 | 12°14'14 | 15° 0 | 11°12 | 9°54 | 28°14 | 25°41 | 1°33 | 14°22 | 17°18 | 25 I I 6 | 3 N 8 | 4°12 | 12°29 | 13°28 | F 2 |
| S 3 | 6 52 14 | 13°15'23 | 0 Ω 4 | 12°50 | 11° 9 | 29° 1 | 25°55 | 1°40 | 14°25 | 17°20 | 25° 5 | 3°D 8 | 4° 9 | 12°35 | 13°32 | S 3 |
| S 4 | 6 56 10 | 14°16'31 | 15° 6 | 14°27 | 12°23 | 29°48 | 26° 9 | 1°47 | 14°28 | 17°22 | 25° 4 | 3° 8 | 4° 5 | 12°42 | 13°36 | S 4 |
| M 5 | 7 0 7 | 15°17'40 | 29°58 | 16° 6 | 13°37 | 0≈35 | 26°23 | 1°54 | 14°31 | 17°25 | 25° 3 | 3° 9 | 4° 2 | 12°49 | 13°40 | M 5 |
| T 6 | 7 4 3 | 16°18'48 | 14 m 33 | 17°45 | 14°52 | 1°23 | 26°37 | 2° 1 | 14°34 | 17°27 | 25° 2 | 3°10 | 3°59 | 12°55 | 13°44 | T 6 |
| W 7 | 7 8 0 | 17°19'57 | 28°48 | 19°24 | 16° 6 | 2°10 | 26°51 | 2° 7 | 14°38 | 17°29 | 25° 0 | 3°11 | 3°56 | 13° 2 | 13°48 | W 7 |
| T 8 | 7 11 56 | 18°21'05 | 12 ≏ 40 | 21° 4 | 17°20 | 2°57 | 27° 5 | 2°14 | 14°41 | 17°32 | 24°59 | 3°R12 | 3°53 | 13° 9 | 13°53 | T 8 |
| F 9 | 7 15 53 | 19°22'13 | 26°10 | 22°44 | 18°35 | 3°44 | 27°19 | 2°21 | 14°44 | 17°34 | 24°58 | 3°12 | 3°49 | 13°15 | 13°57 | F 9 |
| S 10 | 7 19 49 | 20°23'21 | 9 M 20 | 24°24 | 19°49 | 4°32 | 27°33 | 2°28 | 14°47 | 17°36 | 24°57 | 3°11 | 3°46 | 13°22 | 14° 1 | S 10 |
| S 11 | 7 23 46 | 21°24'29 | 22°12 | 26° 6 | 21° 3 | 5°19 | 27°47 | 2°35 | 14°50 | 17°38 | 24°56 | 3°10 | 3°43 | 13°29 | 14° 5 | S 11 |
| M12 | 7 27 43 | 22°25'36 | 4 ₹ 47 | 27°47 | 22°17 | 6° 6 | 28° 1 | 2°42 | 14°54 | 17°41 | 24°55 | 3° 9 | 3°40 | 13°35 | 14° 9 | M12 |
| T 13 | 7 31 39 | 23°26'43 | 17° 9 | 29°29 | 23°31 | 6°54 | 28°16 | 2°48 | 14°57 | 17°43 | 24°54 | 3° 7 | 3°37 | 13°42 | 14°14 | T 13 |
| W14 | 7 35 36 | 24°27'50 | 29°21 | 1≈11 | 24°45 | 7°41 | 28°30 | 2°55 | 15° 0 | 17°45 | 24°53 | 3° 6 | 3°34 | 13°49 | 14°18 | W14 |
| T 15 | 7 39 32 | 25°28'56 | 11 る 23 | 2°54 | 25°59 | 8°29 | 28°44 | 3° 2 | 15° 4 | 17°47 | 24°52 | 3° 5 | 3°30 | 13°55 | 14°22 | T 15 |
| F 16 | 7 43 29 | 26°30'02 | 23°19 | 4°37 | 27°13 | 9°16 | 28°58 | 3° 9 | 15° 7 | 17°50 | 24°51 | 3° 4 | 3°27 | 14° 2 | 14°27 | F 16 |
| S 17 | 7 47 25 | 27°31'07 | 5≈ 9 | 6°20 | 28°27 | 10° 3 | 29°12 | 3°15 | 15°10 | 17°52 | 24°50 | 3°D 4 | 3°24 | 14° 8 | 14°31 | S 17 |
| S 18 | 7 51 22 | 28°32'11 | 16°57 | 8° 4 | 29°41 | 10°51 | 29°27 | 3°22 | 15°14 | 17°54 | 24°49 | 3° 4 | 3°21 | 14°15 | 14°35 | S 18 |
| M19 | 7 55 19 | 29°33'14 | 28°44 | 9°47 | 0 ¥ 55 | 11°38 | 29°41 | 3°29 | 15°17 | 17°56 | 24°48 | 3° 5 | 3°18 | 14°22 | 14°40 | M19 |
| T 20 | 7 59 15 | 0≈34'17 | 10) (33 | 11°30 | 2° 9 | 12°26 | 29°55 | 3°35 | 15°20 | 17°59 | 24°47 | 3° 5 | 3°15 | 14°28 | 14°44 | T 20 |
| W21 | 8 3 12 | 1°35'18 | 22°27 | 13°13 | 3°23 | 13°13 | 0≈ 9 | 3°42 | 15°24 | 18° 1 | 24°46 | 3° 5 | 3°11 | 14°35 | 14°48 | W21 |
| T 22 | 8 7 8 | 2°36'18 | 4 Υ30 | 14°56 | 4°36 | 14° 1 | 0°24 | 3°48 | 15°27 | 18° 3 | 24°45 | 3° 5 | 3° 8 | 14°42 | 14°53 | T 22 |
| F 23 | 8 11 5 | 3°37'17 | 16°45 | 16°38 | 5°50 | 14°48 | 0°38 | 3°55 | 15°31 | 18° 5 | 24°44 | 3°R 5 | 3° 5 | 14°48 | 14°57 | F 23 |
| S 24 | 8 15 1 | 4°38'14 | 29°16 | 18°20 | 7° 4 | 15°36 | 0°52 | 4° 1 | 15°34 | 18° 8 | 24°43 | 3°D 5 | 3° 2 | 14°55 | 15° 2 | S 24 |
| S 25 | 8 18 58 | 5°39'11 | 128 9 | 20° 0 | 8°17 | 16°23 | 1° 6 | 4° 7 | 15°38 | 18°10 | 24°43 | 3° 5 | 2°59 | 15° 2 | 15° 6 | S 25 |
| M26 | 8 22 54 | 6°40'06 | 25°25 | 21°38 | 9°31 | 17°10 | 1°20 | 4°14 | 15°41 | 18°12 | 24°42 | 3° 6 | 2°55 | 15° 8 | 15°10 | M26 |
| T 27 | 8 26 51 | 7°41'00 | 9耳 8 | 23°15 | 10°44 | 17°58 | 1°35 | 4°20 | 15°44 | 18°14 | 24°41 | 3° 6 | 2°52 | 15°15 | 15°15 | T 27 |
| W28 | 8 30 48 | 8°41'53 | 23°17 | 24°50 | 11°58 | 18°45 | 1°49 | 4°26 | 15°48 | 18°16 | 24°40 | 3° 6 | 2°49 | 15°22 | 15°19 | W28 |
| T 29 | 8 34 44 | 9°42'44 | 79 53 | 26°21 | 13°11 | 19°33 | 2° 3 | 4°33 | 15°51 | 18°18 | 24°39 | 3° 7 | 2°46 | 15°28 | 15°24 | T 29 |
| F 30 | 8 38 41 | 10°43'34 | 22°50 | 27°50 | 14°24 | 20°20 | 2°17 | 4°39 | 15°55 | 18°21 | 24°38 | 3° 7 | 2°43 | 15°35 | 15°28 | F 30 |
| S 31 | 8 42 37 | 11≈44'22 | 8 N 0 | 29≈14 | 15) 38 | 21≈ 8 | 2≈31 | 4 ⋜ 45 | 15≈58 | 18 る 23 | 24∏38 | 3°R 7 | 2 Ω 40 | 15≈42 | 15 ≈ 33 | S 31 |

Delta T = 33.01 sec

Greg. Calendar

| FEBRUARY 1665 GC | 00:00 UT |
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| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | В | v | Ω | Ç | ď | Day |
|------|----------|--------------------|----------------|----------------|----------------|----------------|------|---------------|----------------|----------------|--------|---------------|---------------|----------------|----------------|------|
| S 1 | 8 46 34 | 12≈45'10 | 23 Ω 15 | 0) €34 | 16 米 51 | 21≈55 | 2≈45 | 4 ට 51 | 16≈ 2 | 18 궁 25 | 24°R37 | 3°R 7 | 2 Ω 36 | 15≈48 | 15≈37 | S 1 |
| M 2 | 8 50 30 | 13°45'56 | 8 m 25 | 1°48 | 18° 4 | 22°43 | 2°59 | 4°57 | 16° 5 | 18°27 | 24Ⅲ36 | 3 N 6 | 2°33 | 15°55 | 15°42 | M 2 |
| T 3 | 8 54 27 | 14°46'40 | 23°20 | 2°57 | 19°17 | 23°30 | 3°13 | 5° 3 | 16° 9 | 18°29 | 24°35 | 3° 5 | 2°30 | 16° 1 | 15°46 | T 3 |
| W 4 | 8 58 23 | 15°47'24 | 7 ≙ 54 | 3°58 | 20°30 | 24°18 | 3°28 | 5° 9 | 16°12 | 18°31 | 24°35 | 3° 3 | 2°27 | 16° 8 | 15°51 | W 4 |
| T 5 | 9 2 20 | 16°48'07 | 22° 1 | 4°52 | 21°43 | 25° 5 | 3°42 | 5°15 | 16°16 | 18°33 | 24°34 | 3° 2 | 2°24 | 16°15 | 15°55 | T 5 |
| F 6 | 9 6 17 | 17°48'48 | 5 M .41 | 5°38 | 22°56 | 25°52 | 3°56 | 5°21 | 16°19 | 18°35 | 24°33 | 3° 1 | 2°21 | 16°21 | 16° 0 | F 6 |
| S 7 | 9 10 13 | 18°49'29 | 18°54 | 6°15 | 24° 8 | 26°40 | 4°10 | 5°26 | 16°23 | 18°37 | 24°33 | 3°D 0 | 2°17 | 16°28 | 16° 4 | S 7 |
| S 8 | 9 14 10 | 19°50'08 | 1 ∡ 743 | 6°42 | 25°21 | 27°27 | 4°24 | 5°32 | 16°26 | 18°39 | 24°32 | 3° 1 | 2°14 | 16°35 | 16° 9 | S 8 |
| M 9 | 9 18 6 | 20°50'47 | 14°12 | 7° 0 | 26°34 | 28°15 | 4°38 | 5°38 | 16°30 | 18°41 | 24°31 | 3° 2 | 2°11 | 16°41 | 16°13 | M 9 |
| T 10 | 9 22 3 | 21°51'24 | 26°25 | 7°R 7 | 27°46 | 29° 2 | 4°52 | 5°43 | 16°33 | 18°43 | 24°31 | 3° 3 | 2° 8 | 16°48 | 16°17 | T 10 |
| W11 | 9 25 59 | 22°52'00 | 8 궁 27 | 7° 3 | 28°59 | 29°50 | 5° 5 | 5°49 | 16°37 | 18°45 | 24°30 | 3° 5 | 2° 5 | 16°55 | 16°22 | W11 |
| T 12 | 9 29 56 | 23°52'34 | 20°20 | 6°49 | 0 Υ 11 | 0 ∺ 37 | 5°19 | 5°55 | 16°40 | 18°47 | 24°30 | 3° 6 | 2° 1 | 17° 1 | 16°26 | T 12 |
| F 13 | 9 33 52 | 24°53'07 | 2≈ 8 | 6°25 | 1°24 | 1°24 | 5°33 | 6° 0 | 16°44 | 18°49 | 24°29 | 3°R 7 | 1°58 | 17° 8 | 16°31 | F 13 |
| S 14 | 9 37 49 | 25°53'39 | 13°55 | 5°52 | 2°36 | 2°12 | 5°47 | 6° 5 | 16°47 | 18°51 | 24°29 | 3° 6 | 1°55 | 17°15 | 16°35 | S 14 |
| S 15 | 9 41 46 | 26°54'09 | 25°43 | 5°10 | 3°48 | 2°59 | 6° 1 | 6°11 | 16°50 | 18°53 | 24°28 | 3° 5 | 1°52 | 17°21 | 16°40 | S 15 |
| M16 | 9 45 42 | 27°54'37 | 7) €33 | 4°20 | 5° 0 | 3°46 | 6°15 | 6°16 | 16°54 | 18°55 | 24°28 | 3° 2 | 1°49 | 17°28 | 16°44 | M16 |
| T 17 | 9 49 39 | 28°55'03 | 19°29 | 3°25 | 6°12 | 4°34 | 6°28 | 6°21 | 16°57 | 18°57 | 24°27 | 2°58 | 1°46 | 17°35 | 16°48 | T 17 |
| W18 | 9 53 35 | 29°55'28 | 1 Y 31 | 2°24 | 7°24 | 5°21 | 6°42 | 6°26 | 17° 1 | 18°59 | 24°27 | 2°53 | 1°42 | 17°41 | 16°53 | W18 |
| T 19 | 9 57 32 | 0 ¥ 55'51 | 13°41 | 1°21 | 8°36 | 6° 8 | 6°56 | 6°31 | 17° 4 | 19° 0 | 24°27 | 2°48 | 1°39 | 17°48 | 16°57 | T 19 |
| F 20 | 10 1 28 | 1°56'12 | 26° 3 | 0°16 | 9°48 | 6°56 | 7° 9 | 6°36 | 17° 8 | 19° 2 | 24°26 | 2°43 | 1°36 | 17°55 | 17° 2 | F 20 |
| S 21 | 10 5 25 | 2°56'31 | 8 8 37 | 29≈11 | 10°59 | 7°43 | 7°23 | 6°41 | 17°11 | 19° 4 | 24°26 | 2°40 | 1°33 | 18° 1 | 17° 6 | S 21 |
| S 22 | 10 921 | 3°56'48 | 21°28 | 28° 8 | 12°11 | 8°30 | 7°36 | 6°46 | 17°14 | 19° 6 | 24°25 | 2°38 | 1°30 | 18° 8 | 17°10 | S 22 |
| M23 | 10 13 18 | 4°57'04 | 4∏38 | 27° 8 | 13°22 | 9°17 | 7°50 | 6°51 | 17°18 | 19°8 | 24°25 | 2°D37 | 1°27 | 18°14 | 17°15 | M23 |
| T 24 | 10 17 14 | 5°57'17 | 18°10 | 26°12 | 14°33 | 10° 5 | 8° 3 | 6°56 | 17°21 | 19° 9 | 24°25 | 2°37 | 1°23 | 18°21 | 17°19 | T 24 |
| W25 | 10 21 11 | 6°57'28 | 2 9 5 | 25°21 | 15°45 | 10°52 | 8°16 | 7° 0 | 17°24 | 19°11 | 24°25 | 2°39 | 1°20 | 18°28 | 17°23 | W25 |
| T 26 | 10 25 8 | 7°57'37 | 16°24 | 24°36 | 16°56 | 11°39 | 8°30 | 7° 5 | 17°28 | 19°13 | 24°24 | 2°40 | 1°17 | 18°34 | 17°27 | T 26 |
| F 27 | 10 29 4 | 8°57'43 | 1 Ω 4 | 23°57 | 18° 7 | 12°26 | 8°43 | 7° 9 | 17°31 | 19°14 | 24°24 | 2°R41 | 1°14 | 18°41 | 17°32 | F 27 |
| S 28 | 10 33 1 | 9) (57'48 | 16 N 3 | 23≈25 | 19 Υ 18 | 13 米 13 | 8≈56 | 7 ਰ 14 | 17 ≈ 34 | 19 궁 16 | 24∏24 | 2 Ω 40 | 1 Q 11 | 18 ≈ 48 | 17 ≈ 36 | S 28 |

Delta T = 32.95 sec

MARCH 1665 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)∤(| ¥ | Р | Ç | v | ţ | ٥٨ | Day |
|------|----------|-------------------|----------------|----------------|----------------|---------------|-------|---------------|---------------|----------------|----------------|--------------|--------------|----------------|-------|------|
| S 1 | 10 36 57 | 10) 57'51 | 1 Mp 12 | 23°R 0 | 20 Y 28 | 14) 0 | 9≈ 9 | 7 궁 18 | 17≈38 | 19 궁 17 | 24°R24 | 2°R38 | 1 Ω 7 | 18 ≈ 54 | 17≈40 | S 1 |
| M 2 | 10 40 54 | 11°57'51 | 16°22 | 22≈42 | 21°39 | 14°47 | 9°23 | 7°22 | 17°41 | 19°19 | 24∏24 | 2Ω 34 | 1° 4 | 19° 1 | 17°44 | M 2 |
| T 3 | 10 44 50 | 12°57'50 | 1 ≏ 23 | 22°30 | 22°50 | 15°34 | 9°36 | 7°27 | 17°44 | 19°21 | 24°24 | 2°28 | 1° 1 | 19°8 | 17°48 | T 3 |
| W 4 | 10 48 47 | 13°57'47 | 16° 7 | 22°D25 | 24° 0 | 16°21 | 9°49 | 7°31 | 17°47 | 19°22 | 24°23 | 2°21 | 0°58 | 19°14 | 17°52 | W 4 |
| T 5 | 10 52 43 | 14°57'42 | 0 M 26 | 22°27 | 25°10 | 17° 8 | 10° 2 | 7°35 | 17°50 | 19°24 | 24°23 | 2°15 | 0°55 | 19°21 | 17°57 | T 5 |
| F 6 | 10 56 40 | 15°57'35 | 14°16 | 22°34 | 26°20 | 17°55 | 10°14 | 7°39 | 17°54 | 19°25 | 24°23 | 2° 9 | 0°52 | 19°28 | 18° 1 | F 6 |
| S 7 | 11 0 37 | 16°57'27 | 27°38 | 22°47 | 27°30 | 18°42 | 10°27 | 7°43 | 17°57 | 19°26 | 24°23 | 2° 6 | 0°48 | 19°34 | 18° 5 | S 7 |
| S 8 | 11 433 | 17°57'17 | 10 ∡ 32 | 23° 6 | 28°40 | 19°29 | 10°40 | 7°47 | 18° 0 | 19°28 | 24°D23 | 2° 4 | 0°45 | 19°41 | 18° 9 | S 8 |
| M 9 | 11 8 30 | 18°57'06 | 23° 3 | 23°30 | 29°50 | 20°16 | 10°53 | 7°50 | 18° 3 | 19°29 | 24°23 | 2°D 4 | 0°42 | 19°48 | 18°13 | M 9 |
| T 10 | 11 12 26 | 19°56'53 | 5 る 15 | 23°58 | 1 8 0 | 21° 3 | 11° 5 | 7°54 | 18° 6 | 19°31 | 24°23 | 2° 4 | 0°39 | 19°54 | 18°17 | T 10 |
| W11 | 11 16 23 | 20°56'38 | 17°13 | 24°32 | 2° 9 | 21°50 | 11°18 | 7°57 | 18° 9 | 19°32 | 24°23 | 2° 6 | 0°36 | 20° 1 | 18°21 | W11 |
| T 12 | 11 20 19 | 21°56'21 | 29° 3 | 25° 9 | 3°18 | 22°37 | 11°30 | 8° 1 | 18°12 | 19°33 | 24°23 | 2°R 7 | 0°32 | 20° 8 | 18°24 | T 12 |
| F 13 | 11 24 16 | 22°56'02 | 10≈49 | 25°50 | 4°28 | 23°23 | 11°43 | 8° 4 | 18°15 | 19°35 | 24°23 | 2° 6 | 0°29 | 20°14 | 18°28 | F 13 |
| S 14 | 11 28 12 | 23°55'42 | 22°36 | 26°36 | 5°37 | 24°10 | 11°55 | 8° 8 | 18°18 | 19°36 | 24°24 | 2° 4 | 0°26 | 20°21 | 18°32 | S 14 |
| S 15 | 11 32 9 | 24°55'19 | 4) €26 | 27°24 | 6°46 | 24°57 | 12° 8 | 8°11 | 18°21 | 19°37 | 24°24 | 1°59 | 0°23 | 20°28 | 18°36 | S 15 |
| M16 | 11 36 6 | 25°54'55 | 16°22 | 28°16 | 7°54 | 25°44 | 12°20 | 8°14 | 18°24 | 19°38 | 24°24 | 1°52 | 0°20 | 20°34 | 18°40 | M16 |
| T 17 | 11 40 2 | 26°54'28 | 28°27 | 29°11 | 9° 3 | 26°30 | 12°32 | 8°17 | 18°27 | 19°39 | 24°24 | 1°43 | 0°17 | 20°41 | 18°43 | T 17 |
| W18 | 11 43 59 | 27°54'00 | 10 Ƴ 41 | 0 ∺ 9 | 10°11 | 27°17 | 12°44 | 8°20 | 18°30 | 19°40 | 24°24 | 1°32 | 0°13 | 20°47 | 18°47 | W18 |
| T 19 | 11 47 55 | 28°53'29 | 23° 6 | 1°10 | 11°20 | 28° 3 | 12°56 | 8°23 | 18°33 | 19°42 | 24°25 | 1°21 | 0°10 | 20°54 | 18°51 | T 19 |
| F 20 | 11 51 52 | 29°52'56 | 5 8 42 | 2°13 | 12°28 | 28°50 | 13° 8 | 8°26 | 18°36 | 19°43 | 24°25 | 1°11 | 0° 7 | 21° 1 | 18°54 | F 20 |
| S 21 | 11 55 48 | 0 Υ 52'21 | 18°29 | 3°19 | 13°36 | 29°36 | 13°20 | 8°28 | 18°38 | 19°44 | 24°25 | 1° 2 | 0° 4 | 21° 7 | 18°58 | S 21 |
| S 22 | 11 59 45 | 1°51'44 | 1П29 | 4°27 | 14°44 | 0 Υ 23 | 13°31 | 8°31 | 18°41 | 19°45 | 24°25 | 0°56 | 0° 1 | 21°14 | 19° 2 | S 22 |
| M23 | 12 3 41 | 2°51'05 | 14°43 | 5°37 | 15°51 | 1° 9 | 13°43 | 8°33 | 18°44 | 19°46 | 24°26 | 0°52 | 299558 | 21°21 | 19° 5 | M23 |
| T 24 | 12 7 38 | 3°50'23 | 28°12 | 6°49 | 16°58 | 1°56 | 13°55 | 8°36 | 18°47 | 19°47 | 24°26 | 0°D51 | 29°54 | 21°27 | 19° 9 | T 24 |
| W25 | 12 11 34 | 4°49'39 | 119558 | 8° 4 | 18° 6 | 2°42 | 14° 6 | 8°38 | 18°49 | 19°47 | 24°26 | 0°51 | 29°51 | 21°34 | 19°12 | W25 |
| T 26 | 12 15 31 | 5°48'52 | 26° 2 | 9°20 | 19°13 | 3°28 | 14°17 | 8°40 | 18°52 | 19°48 | 24°27 | 0°R51 | 29°48 | 21°41 | 19°15 | T 26 |
| F 27 | 12 19 28 | 6°48'04 | 10 Ω 23 | 10°39 | 20°19 | 4°15 | 14°29 | 8°43 | 18°55 | 19°49 | 24°27 | 0°51 | 29°45 | 21°47 | 19°19 | F 27 |
| S 28 | 12 23 24 | 7°47'12 | 25° 0 | 11°59 | 21°26 | 5° 1 | 14°40 | 8°45 | 18°57 | 19°50 | 24°28 | 0°49 | 29°42 | 21°54 | 19°22 | S 28 |
| S 29 | 12 27 21 | 8°46'19 | 9 m)49 | 13°21 | 22°32 | 5°47 | 14°51 | 8°47 | 19° 0 | 19°51 | 24°28 | 0°44 | 29°38 | 22° 1 | 19°25 | S 29 |
| M30 | 12 31 17 | 9°45'23 | 24°42 | 14°45 | 23°38 | 6°33 | 15° 2 | 8°48 | 19° 2 | 19°52 | 24°29 | 0°37 | 29°35 | 22° 7 | 19°29 | M30 |
| T 31 | 12 35 14 | 10 Y 44'25 | 9 ₾ 31 | 16 ¥ 10 | 24 8 44 | 7 Υ 19 | 15≈13 | 8 궁 50 | 19 ≈ 5 | 19 る 52 | 24 Ⅱ 29 | $0\Omega 27$ | 29932 | 22≈14 | 19≈32 | T 31 |

Delta T = 32.90 sec Gro

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|------|----------|-------------------|----------------|----------------|----------------|--------------|----------------|---------------|------------|----------------|-----------------|--------|-------|-------|-------|------|
| W 1 | 12 39 10 | 11 ° 43'25 | 24 <u>₽</u> 8 | 17) 37 | 25 8 50 | 8 Υ 5 | 15≈24 | 8 궁 52 | 19≈ 7 | 19 궁 53 | 24 II 30 | 0°R17 | 29529 | 22≈21 | 19≈35 | W 1 |
| T 2 | 12 43 7 | 12°42'23 | 8M25 | 19° 6 | 26°55 | 8°51 | 15°35 | 8°53 | 19°10 | 19°54 | 24°30 | ON 6 | 29°26 | 22°27 | 19°38 | T 2 |
| F 3 | 12 47 3 | 13°41'19 | 22°18 | 20°37 | 28° 1 | 9°37 | 15°45 | 8°55 | 19°12 | 19°54 | 24°31 | 299556 | 29°23 | 22°34 | 19°41 | F 3 |
| S 4 | 12 51 0 | 14°40'13 | 5 , 743 | 22° 9 | 29° 6 | 10°23 | 15°56 | 8°56 | 19°14 | 19°55 | 24°31 | 29°48 | 29°19 | 22°41 | 19°44 | S 4 |
| S 5 | 12 54 57 | 15°39'05 | 18°41 | 23°42 | 0 П 10 | 11° 9 | 16° 6 | 8°58 | 19°17 | 19°55 | 24°32 | 29°43 | 29°16 | 22°47 | 19°47 | S 5 |
| M 6 | 12 58 53 | 16°37'56 | 1 궁 16 | 25°18 | 1°15 | 11°55 | 16°16 | 8°59 | 19°19 | 19°56 | 24°33 | 29°40 | 29°13 | 22°54 | 19°50 | M 6 |
| T 7 | 13 2 50 | 17°36'45 | 13°30 | 26°54 | 2°19 | 12°41 | 16°27 | 9° 0 | 19°21 | 19°56 | 24°33 | 29°D39 | 29°10 | 23° 1 | 19°53 | T 7 |
| W 8 | 13 6 46 | 18°35'32 | 25°30 | 28°33 | 3°23 | 13°27 | 16°37 | 9° 1 | 19°23 | 19°57 | 24°34 | 29°R39 | 29° 7 | 23° 7 | 19°56 | W 8 |
| T 9 | 13 10 43 | 19°34'18 | 7≈21 | 0 Υ 13 | 4°26 | 14°12 | 16°47 | 9° 2 | 19°25 | 19°57 | 24°35 | 29°39 | 29° 4 | 23°14 | 19°58 | T 9 |
| F 10 | 13 14 39 | 20°33'02 | 19°8 | 1°54 | 5°30 | 14°58 | 16°57 | 9° 2 | 19°27 | 19°58 | 24°35 | 29°38 | 29° 0 | 23°21 | 20° 1 | F 10 |
| S 11 | 13 18 36 | 21°31'44 | 0 ∺ 57 | 3°37 | 6°33 | 15°44 | 17° 6 | 9° 3 | 19°29 | 19°58 | 24°36 | 29°34 | 28°57 | 23°27 | 20° 4 | S 11 |
| S 12 | 13 22 32 | 22°30'24 | 12°51 | 5°22 | 7°35 | 16°29 | 17°16 | 9° 4 | 19°31 | 19°58 | 24°37 | 29°28 | 28°54 | 23°34 | 20° 6 | S 12 |
| M13 | 13 26 29 | 23°29'02 | 24°55 | 7° 8 | 8°38 | 17°15 | 17°26 | 9° 4 | 19°33 | 19°59 | 24°38 | 29°19 | 28°51 | 23°41 | 20° 9 | M13 |
| T 14 | 13 30 26 | 24°27'38 | 7 Υ 10 | 8°56 | 9°40 | 18° 0 | 17°35 | 9° 5 | 19°35 | 19°59 | 24°38 | 29° 8 | 28°48 | 23°47 | 20°11 | T 14 |
| W15 | 13 34 22 | 25°26'13 | 19°38 | 10°46 | 10°42 | 18°46 | 17°44 | 9° 5 | 19°37 | 19°59 | 24°39 | 28°55 | 28°44 | 23°54 | 20°14 | W15 |
| T 16 | 13 38 19 | 26°24'46 | 2 8 20 | 12°37 | 11°43 | 19°31 | 17°53 | 9° 5 | 19°39 | 19°59 | 24°40 | 28°41 | 28°41 | 24° 0 | 20°16 | T 16 |
| F 17 | 13 42 15 | 27°23'17 | 15°15 | 14°30 | 12°44 | 20°17 | 18° 2 | 9° 5 | 19°41 | 19°59 | 24°41 | 28°28 | 28°38 | 24° 7 | 20°19 | F 17 |
| S 18 | 13 46 12 | 28°21'45 | 28°22 | 16°24 | 13°45 | 21° 2 | 18°11 | 9°R 5 | 19°43 | 20° 0 | 24°42 | 28°17 | 28°35 | 24°14 | 20°21 | S 18 |
| S 19 | 13 50 8 | 29°20'12 | 11 Ⅱ 40 | 18°20 | 14°45 | 21°47 | 18°20 | 9° 5 | 19°44 | 20° 0 | 24°43 | 28° 9 | 28°32 | 24°20 | 20°23 | S 19 |
| M20 | 13 54 5 | 0 8 18'37 | 25° 9 | 20°18 | 15°45 | 22°32 | 18°29 | 9° 5 | 19°46 | 20° 0 | 24°43 | 28° 4 | 28°29 | 24°27 | 20°25 | M20 |
| T 21 | 13 58 1 | 1°17'00 | 8 95 48 | 22°17 | 16°45 | 23°17 | 18°37 | 9° 5 | 19°48 | 20°R 0 | 24°44 | 28° 1 | 28°25 | 24°34 | 20°27 | T 21 |
| W22 | 14 1 58 | 2°15'21 | 22°37 | 24°18 | 17°44 | 24° 3 | 18°46 | 9° 4 | 19°49 | 20° 0 | 24°45 | 28° 0 | 28°22 | 24°40 | 20°29 | W22 |
| T 23 | 14 5 55 | 3°13'39 | 6Ω 37 | 26°20 | 18°43 | 24°48 | 18°54 | 9° 4 | 19°51 | 20° 0 | 24°46 | 28° 0 | 28°19 | 24°47 | 20°31 | T 23 |
| F 24 | 14 9 51 | 4°11'55 | 20°46 | 28°24 | 19°41 | 25°33 | 19° 2 | 9° 3 | 19°52 | 20° 0 | 24°47 | 28° 0 | 28°16 | 24°54 | 20°33 | F 24 |
| S 25 | 14 13 48 | 5°10'10 | 5 Mp 5 | 0829 | 20°39 | 26°18 | 19°10 | 9° 3 | 19°54 | 20° 0 | 24°48 | 27°57 | 28°13 | 25° 0 | 20°35 | S 25 |
| S 26 | 14 17 44 | 6° 8'22 | 19°30 | 2°35 | 21°36 | 27° 2 | 19°18 | 9° 2 | 19°55 | 19°59 | 24°49 | 27°52 | 28° 9 | 25° 7 | 20°37 | S 26 |
| M27 | 14 21 41 | 7° 6'32 | 3 ≏ 57 | 4°43 | 22°33 | 27°47 | 19°26 | 9° 1 | 19°57 | 19°59 | 24°50 | 27°45 | 28° 6 | 25°14 | 20°39 | M27 |
| T 28 | 14 25 37 | 8° 4'40 | 18°22 | 6°51 | 23°30 | 28°32 | 19°33 | 9° 0 | 19°58 | 19°59 | 24°51 | 27°35 | 28° 3 | 25°20 | 20°41 | T 28 |
| W29 | 14 29 34 | 9° 2'46 | 2 M .38 | 9° 0 | 24°25 | 29°17 | 19°41 | 8°59 | 19°59 | 19°59 | 24°52 | 27°23 | 28° 0 | 25°27 | 20°42 | W29 |
| T 30 | 14 33 30 | 108 0'51 | 16 M 39 | 11810 | 25 Ⅱ 21 | 0 8 2 | 19 ≈ 48 | 8 궁 58 | 20≈ 0 | 19 る 59 | 24 I I53 | 279512 | 27957 | 25≈34 | 20≈44 | T 30 |

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|--------------|----------------------|----------------------|-------------------------|------------------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
| F 1 | 14 37 27 | 10858'54 | 0 ₹ 20 | 13820 | 26耳16 | 0 8 46 | 19≈55 | 8°R56 | 20≈ 2 | 19°R58 | 24∏54 | 27°R 1 | 279554 | 25≈40 | 20≈45 | F 1 |
| S 2 | 14 41 24 | 11°56'55 | 13°39 | 15°30 | 27°10 | 1°31 | 20° 2 | 8 궁 55 | 20° 3 | 19 る 58 | 24°56 | 26953 | 27°50 | 25°47 | 20°47 | S 2 |
| S 3 | 14 45 20 | 12°54'55 | 26°35 | 17°40 | 28° 3 | 2°15 | 20° 9 | 8°54 | 20° 4 | 19°58 | 24°57 | 26°47 | 27°47 | 25°54 | 20°48 | S 3 |
| M 4 | 14 49 17 | 13°52'54 | 9 ろ 9 | 19°50 | 28°56 | 3° 0 | 20°16 | 8°52 | 20° 5 | 19°57 | 24°58 | 26°44 | 27°44 | 26° 0 | 20°50 | M 4 |
| T 5 | 14 53 13 | 14°50'51 | 21°25 | 21°58 | 29°49 | 3°44 | 20°22 | 8°51 | 20° 6 | 19°57 | 24°59 | 26°D42 | 27°41 | 26° 7 | 20°51 | T 5 |
| W 6 | 14 57 10 | 15°48'47 | 3≈27 | 24° 6 | 0940 | 4°29 | 20°29 | 8°49 | 20° 7 | 19°56 | 25° 0 | 26°42 | 27°38 | 26°14 | 20°52 | W 6 |
| T 7 | 15 1 6 | 16°46'41 | 15°19 | 26°12 | 1°31 | 5°13 | 20°35 | 8°47 | 20° 8 | 19°56 | 25° 1 | 26°R43 | 27°35 | 26°20 | 20°53 | T 7 |
| F 8 | 15 5 3 | 17°44'34 | 27° 8 8) 59 | 28°17 0 Ⅲ 20 | 2°22 | 5°57 | 20°41 | 8°45 | 20° 8 20° 9 | 19°55 | 25° 2 25° 4 | 26°42 | 27°31 | 26°27 | 20°54 | F 8 S 9 |
| S 9 | 15 8 59 | 18°42'26 | | | 3°11 | 6°42 | 20°47 | 8°43 | | 19°55 | | 26°40 | 27°28 | 26°34 | 20°55 | |
| S 10 | 15 12 56 | 19°40'17 | 20°57 | 2°21 | 4° 0 | 7°26 | 20°53 | 8°41 | 20°10 | 19°54 | 25° 5 | 26°36 | 27°25 | 26°40 | 20°56 | S 10 |
| M11 | 15 16 53 | 20°38'06 | 3Υ 6 | 4°19 | 4°48 | 8°10 | 20°58 | 8°39 | 20°11 | 19°54 | 25° 6 | 26°29 | 27°22 | 26°47 | 20°57 | M11 |
| T 12 | 15 20 49 | 21°35'54 22°33'41 | 15°29 28° 9 | 6°16 8° 9 | 5°35 6°22 | 8°54 9°38 | 21° 4 21° 9 | 8°37 8°35 | 20°11 20°12 | 19°53 19°52 | 25° 7 25° 9 | 26°21 26°10 | 27°19 27°15 | 26°54 27° 0 | 20°58 20°59 | T 12 W13 |
| W13 T 14 | 15 24 46 15 28 42 | 22°33'41 23°31'27 | 118 6 | 10° 0 | 7° 7 | 10°22 | 21° 14 | 8°32 | 20°12 20°12 | 19°52 | 25°10 | 25°59 | 27°13 | 27° 0 | 20°59 21° 0 | T 14 |
| F 15 | 15 32 39 | 24°29'11 | 24°20 | 11°48 | 7°52 | 10°22 | 21°19 | 8°30 | 20°13 | 19°51 | 25°11 | 25°49 | 27° 9 | 27°14 | 21° 0 | F 15 |
| S 16 | 15 36 35 | 25°26'54 | 7 耳 50 | 13°33 | 8°36 | 11°50 | 21°24 | 8°27 | 20°13 | 19°50 | 25°12 | 25°40 | 27° 6 | 27°20 | 21° 1 | S 16 |
| S 17 | 15 40 32 | 26°24'36 | 21°32 | 15°14 | 9°19 | 12°34 | 21°28 | 8°25 | 20°14 | 19°49 | 25°14 | 25°33 | 27° 3 | 27°27 | 21° 2 | S 17 |
| M18 | 15 44 28 | 20°24'30 27°22'16 | 5924 | 16°53 | 10° 0 | 12°17 | 21°33 | 8°22 | 20°14 20°14 | 19°49 | 25°15 | 25°29 | 27° 0 | 27°34 | 21° 2 | M18 |
| T 19 | 15 48 25 | 28°19'55 | 19°24 | 18°29 | 10°41 | 14° 1 | 21°37 | 8°19 | 20°14 | 19°48 | 25°16 | 25°D28 | 26°56 | 27°40 | 21° 2 | T 19 |
| W20 | 15 52 22 | 29°17'33 | 3 Ω 28 | 20° 2 | 11°21 | 14°45 | 21°41 | 8°16 | 20°15 | 19°47 | 25°17 | 25°28 | 26°53 | 27°47 | 21° 3 | W20 |
| T 21 | 15 56 18 | 0 Ⅲ 15′08 | 17°35 | 21°31 | 11°59 | 15°28 | 21°45 | 8°13 | 20°15 | 19°46 | 25°19 | 25°29 | 26°50 | 27°54 | 21° 3 | T 21 |
| F 22 | 16 0 15 | 1°12'43 | 1 M 44 | 22°57 | 12°36 | 16°12 | 21°49 | 8°10 | 20°15 | 19°45 | 25°20 | 25°R29 | 26°47 | 28° 0 | 21° 3 | F 22 |
| S 23 | 16 4 11 | 2°10'15 | 15°54 | 24°20 | 13°12 | 16°55 | 21°52 | 8° 7 | 20°15 | 19°44 | 25°21 | 25°28 | 26°44 | 28° 7 | 21° 4 | S 23 |
| S 24 | 16 8 8 | 3° 7'47 | 0 º 2 | 25°39 | 13°47 | 17°39 | 21°56 | 8° 4 | 20°15 | 19°43 | 25°23 | 25°25 | 26°41 | 28°14 | 21° 4 | S 24 |
| M25 | 16 12 4 | 4° 5'16 | 14° 7 | 26°55 | 14°21 | 18°22 | 21°59 | 8° 1 | 20°R15 | 19°42 | 25°24 | 25°21 | 26°37 | 28°20 | 21°R 4 | M25 |
| T 26 | 16 16 1 | 5° 2'45 | 28° 5 | 28° 8 | 14°53 | 19° 5 | 22° 2 | 7°58 | 20°15 | 19°41 | 25°26 | 25°14 | 26°34 | 28°27 | 21° 4 | T 26 |
| W27 | 16 19 57 | 6° 0'12 | 11 M .54 | 29°17 | 15°23 | 19°49 | 22° 4 | 7°54 | 20°15 | 19°40 | 25°27 | 25° 6 | 26°31 | 28°34 | 21° 4 | W27 |
| T 28 | 16 23 54 | 6°57'39 | 25°30 | 09523 | 15°52 | 20°32 | 22° 7 | 7°51 | 20°15 | 19°39 | 25°28 | 24°58 | 26°28 | 28°40 | 21° 3 | T 28 |
| F 29 S 30 | 16 27 51 16 31 47 | 7°55'04 8°52'28 | 8 ∡ 750 21°53 | 1°25 2°23 | 16°20 16°46 | 21°15 21°58 | 22°10 22°12 | 7°47 7°44 | 20°15 20°15 | 19°38 19°37 | 25°30 25°31 | 24°51 24°45 | 26°25 26°21 | 28°47 28°54 | 21° 3 21° 3 | F 29 S 30 |
| | | | | | | | | | | | | | _ | | _ | |
| S 31 | 16 35 44 | 9 Ⅱ 49'52 | 4 궁 38 | 39518 | 179510 | 22841 | 22≈14 | 7 云 40 | 20≈14 | 19 ට 36 | 25∏32 | 249541 | 269518 | 29≈ 0 | 21≈ 3 | S 31 |

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Greg. Calendar

JUNE 1665 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | δ | 4 | ħ |) / (| ¥ | Р | r | Ω | Ç | Š. | Day |
|--------------|----------------------|--------------------|------------------------|--------------|----------------|----------------|----------------|---------------|------------------|----------------|----------------|----------------|----------------|---------------|----------------|--------------|
| M 1 | 16 39 40 | 10 ∏ 47'15 | 17 ට 6 | 499 9 | 17933 | 23 8 24 | 22≈16 | 7°R37 | 20°R14 | 19°R35 | 25∏34 | 24°R39 | 269915 | 29≈ 7 | 21°R 2 | M 1 |
| T 2 | 16 43 37 | 11°44'37 | 29°18 | 4°56 | 17°53 | 24° 7 | 22°17 | 7 云 33 | 20≈14 | 19 る 34 | 25°35 | 24°D39 | 26°12 | 29°14 | 21≈ 2 | T 2 |
| W 3 | 16 47 33 | 12°41'58 | 11 ≈ 19 | 5°39 | 18°12 | 24°50 | 22°19 | 7°29 | 20°13 | 19°32 | 25°37 | 249540 | 26° 9 | 29°20 | 21° 1 | W 3 |
| T 4 | 16 51 30 | 13°39'18 | 23°12 | 6°17 | 18°30 | 25°33 | 22°20 | 7°25 | 20°13 | 19°31 | 25°38 | 24°42 | 26° 6 | 29°27 | 21° 1 | T 4 |
| F 5 | 16 55 26 | 14°36'39 | 5 ¥ 2 | 6°52 | 18°45 | 26°15 | 22°21 | 7°22 | 20°12 | 19°30 | 25°40 | 24°43 | 26° 2 | 29°34 | 21° 0 | F 5 |
| S 6 | 16 59 23 | 15°33'58 | 16°54 | 7°23 | 18°58 | 26°58 | 22°22 | 7°18 | 20°12 | 19°29 | 25°41 | 24°R43 | 25°59 | 29°40 | 20°59 | S 6 |
| S 7 | 17 3 20 | 16°31'17 | 28°53 | 7°49 | 19° 9 | 27°41 | 22°23 | 7°14 | 20°11 | 19°27 | 25°42 | 24°43 | 25°56 | 29°47 | 20°58 | S 7 |
| M 8 | 17 7 16 | 17°28'36 | 11 Υ 4 | 8°10 | 19°18 | 28°23 | 22°24 | 7°10 | 20°10 | 19°26 | 25°44 | 24°40 | 25°53 | 29°54 | 20°58 | M 8 |
| T 9 | 17 11 13 | 18°25'54 | 23°31 | 8°27 | 19°25 | 29° 6 | 22°24 | 7° 6 | 20°10 | 19°25 | 25°45 | 24°36 | 25°50 | 0 ∺ 0 | 20°57 | T 9 |
| W10 | 17 15 9 | 19°23'12 | 6 8 17 | 8°40 | 19°29 | 29°48 | 22°R24 | 7° 2 | 20° 9 | 19°23 | 25°47 | 24°31 | 25°47 | 0° 7 | 20°56 | W10 |
| T 11 | 17 19 6 | 20°20'29 | 19°24 | 8°48 | 19°32 | 0 Ⅲ 31 | 22°24 | 6°57 | 20° 8 | 19°22 | 25°48 | 24°26 | 25°43 | 0°14 | 20°55 | T 11 |
| F 12 | 17 23 2 | 21°17'47 | 2 ∏ 52 | 8°R52 | 19°R32 | 1°13 | 22°24 | 6°53 | 20° 7 | 19°21 | 25°50 | 24°21 | 25°40 | 0°20 | 20°54 | F 12 |
| S 13 | 17 26 59 | 22°15'03 | 16°40 | 8°51 | 19°30 | 1°56 | 22°24 | 6°49 | 20° 6 | 19°19 | 25°51 | 24°16 | 25°37 | 0°27 | 20°53 | S 13 |
| S 14 | 17 30 55 | 23°12'20 | 0 ୭ 45 | 8°45 | 19°25 | 2°38 | 22°23 | 6°45 | 20° 5 | 19°18 | 25°52 | 24°13 | 25°34 | 0°34 | 20°51 | S 14 |
| M15 | 17 34 52 | 24° 9'35 | 15° 2 | 8°35 | 19°18 | 3°20 | 22°22 | 6°41 | 20° 4 | 19°16 | 25°54 | 24°11 | 25°31 | 0°40 | 20°50 | M15 |
| T 16 | 17 38 49 | 25° 6'51 | 29°27 | 8°21 | 19° 8 | 4° 2 | 22°21 | 6°36 | 20° 3 | 19°15 | 25°55 | 24°D11 | 25°27 | 0°47 | 20°49 | T 16 |
| W17 | 17 42 45 | 26° 4'05 | 13 Q 55 | 8° 3 | 18°57 | 4°44 | 22°20 | 6°32 | 20° 2 | 19°14 | 25°57 | 24°12 | 25°24 | 0°54 | 20°47 | W17 |
| T 18 | 17 46 42 | 27° 1'19 | 28°20 | 7°41 | 18°42 | 5°26 | 22°19 | 6°28 | 20° 1 | 19°12 | 25°58 | 24°13 | 25°21 | 1° 0 | 20°46 | T 18 |
| F 19 | 17 50 38 | 27°58'32 | 12 m 40 | 7°16 | 18°26 | 6° 8 | 22°17 | 6°24 | 20° 0 | 19°11 19° 9 | 26° 0 | 24°15 | 25°18 | 1° 7 | 20°45 | F 19 |
| S 20 | 17 54 35 | 28°55'45 | 26°52 | 6°48 | 18° 7 | 6°50 | 22°15 | 6°19 | 19°59 | | 26° 1 | 24°R15 | 25°15 | 1°14 | 20°43 | S 20 |
| S 21 | 17 58 31 | 29°52'57 | 10 ≏ 54 | 6°17 | 17°46 | 7°32 | 22°13 | 6°15 | 19°58 | 19° 8 | 26° 3 | 24°15 | 25°12 | 1°20 | 20°41 | S 21 |
| M22 | 18 2 28 | 0950'08 | 24°44 | 5°44 | 17°22 | 8°14 | 22°11 | 6°10 | 19°56 | 19° 6 | 26° 4 | 24°14 | 25° 8 | 1°27 | 20°40 | M22 |
| T 23 | 18 6 24 | 1°47'19 | 8M22 | 5° 9 | 16°57 | 8°56 | 22° 9 | 6° 6 | 19°55 | 19° 5 | 26° 5 | 24°11 | 25° 5 | 1°34 | 20°38 | T 23 |
| W24 | 18 10 21 | 2°44'30 | 21°47 | 4°34 | 16°29 | 9°37 | 22° 6 | 6° 2 | 19°54 | 19° 3 | 26° 7 | 24° 8 | 25° 2 | 1°40 | 20°36 | W24 |
| T 25 | 18 14 18 | 3°41'40 | 4 ₹ 757 | 3°58 | 16° 0 | 10°19 | 22° 4 | 5°57 | 19°52 | 19° 2 | 26° 8 | 24° 5 | 24°59 | 1°47 | 20°35 | T 25 |
| F 26 S 27 | 18 18 14 18 22 11 | 4°38'50 5°36'00 | 17°54 0 ♂ 37 | 3°22 2°47 | 15°29 14°56 | 11° 1 11°42 | 22° 1 21°58 | 5°53 5°48 | 19°51 19°49 | 19° 0 18°58 | 26°10 26°11 | 24° 3 24° 0 | 24°56 24°53 | 1°54 2° 0 | 20°33 20°31 | F 26 S 27 |
| | | | | | | | | | | | | | | | | |
| S 28 | 18 26 7 | 6°33'10 | 13° 6 | 2°13 | 14°22 | 12°24 | 21°54 | 5°44 | 19°48 | 18°57 | 26°13 | 23°59 | 24°49 | 2° 7 | 20°29 | S 28 |
| M29 | 18 30 4 | 7°30'20 | 25°23 | 1°41 | 13°47 | 13° 5 | 21°51 | 5°40 | 19°46 | 18°55 | 26°14 | 23°D59 | 24°46 | 2°14 | 20°27 | M29 |
| T 30 | 18 34 0 | 8927'30 | 7≈28 | 19912 | 139911 | 13 Ⅱ 46 | 21≈47 | 5 七 35 | 19≈45 | 18 る 54 | 26 Ⅱ 15 | 239559 | 249543 | 2 ∺ 20 | 20≈25 | T 30 |

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|------|----------|-----------------|-----------------|--------|--------|-------|----------------|---------------|----------------|----------------|----------------|--------|--------|----------------|---------------|------|
| W 1 | 18 37 57 | 99524'40 | 19≈25 | 0°R46 | 12°R34 | 14∏28 | 21°R44 | 5°R31 | 19°R43 | 18°R52 | 26 I I7 | 2495 0 | 249540 | 2) 27 | 20°R23 | W 1 |
| T 2 | 18 41 53 | 10°21'50 | 1) 17 | 09୍ଦ24 | 11957 | 15° 9 | 21≈40 | 5 る 26 | 19≈42 | 18 궁 51 | 26°18 | 24° 2 | 24°37 | 2°34 | 20≈21 | T 2 |
| F 3 | 18 45 50 | 11°19'01 | 13° 7 | 0° 5 | 11°20 | 15°50 | 21°36 | 5°22 | 19°40 | 18°49 | 26°20 | 24° 3 | 24°33 | 2°41 | 20°18 | F 3 |
| S 4 | 18 49 47 | 12°16'12 | 24°59 | 29耳51 | 10°42 | 16°31 | 21°31 | 5°18 | 19°38 | 18°47 | 26°21 | 24° 4 | 24°30 | 2°47 | 20°16 | S 4 |
| S 5 | 18 53 43 | 13°13'23 | 6 Υ 58 | 29°42 | 10° 5 | 17°13 | 21°27 | 5°13 | 19°36 | 18°46 | 26°23 | 24° 4 | 24°27 | 2°54 | 20°14 | S 5 |
| M 6 | 18 57 40 | 14°10'35 | 19°8 | 29°D37 | 9°28 | 17°54 | 21°22 | 5° 9 | 19°35 | 18°44 | 26°24 | 24°R 4 | 24°24 | 3° 1 | 20°12 | M 6 |
| T 7 | 19 1 36 | 15° 7'47 | 1834 | 29°38 | 8°52 | 18°35 | 21°17 | 5° 5 | 19°33 | 18°43 | 26°25 | 24° 4 | 24°21 | 3° 7 | 20° 9 | T 7 |
| W 8 | 19 5 33 | 16° 5'00 | 14°19 | 29°43 | 8°17 | 19°16 | 21°12 | 5° 0 | 19°31 | 18°41 | 26°27 | 24° 3 | 24°18 | 3°14 | 20° 7 | W 8 |
| T 9 | 19 9 29 | 17° 2'13 | 27°28 | 29°54 | 7°43 | 19°56 | 21° 7 | 4°56 | 19°29 | 18°39 | 26°28 | 24° 2 | 24°14 | 3°21 | 20° 4 | T 9 |
| F 10 | 19 13 26 | 17°59'28 | 11 I 1 | 09511 | 7°10 | 20°37 | 21° 2 | 4°52 | 19°27 | 18°38 | 26°29 | 24° 2 | 24°11 | 3°27 | 20° 2 | F 10 |
| S 11 | 19 17 22 | 18°56'42 | 24°58 | 0°33 | 6°39 | 21°18 | 20°57 | 4°48 | 19°25 | 18°36 | 26°31 | 24° 1 | 24° 8 | 3°34 | 19°59 | S 11 |
| S 12 | 19 21 19 | 19°53'58 | 99317 | 1° 0 | 6° 9 | 21°59 | 20°51 | 4°43 | 19°23 | 18°34 | 26°32 | 24° 1 | 24° 5 | 3°41 | 19°57 | S 12 |
| M13 | 19 25 16 | 20°51'13 | 23°54 | 1°33 | 5°42 | 22°40 | 20°45 | 4°39 | 19°21 | 18°33 | 26°33 | 24°D 1 | 24° 2 | 3°47 | 19°54 | M13 |
| T 14 | 19 29 12 | 21°48'29 | 8 Ω 43 | 2°11 | 5°16 | 23°20 | 20°40 | 4°35 | 19°19 | 18°31 | 26°35 | 24° 1 | 23°59 | 3°54 | 19°52 | T 14 |
| W15 | 19 33 9 | 22°45'46 | 23°35 | 2°55 | 4°53 | 24° 1 | 20°34 | 4°31 | 19°17 | 18°30 | 26°36 | 24° 1 | 23°55 | 4° 1 | 19°49 | W15 |
| T 16 | 19 37 5 | 23°43'03 | 8 m 24 | 3°44 | 4°31 | 24°41 | 20°28 | 4°27 | 19°15 | 18°28 | 26°37 | 24°R 1 | 23°52 | 4° 7 | 19°46 | T 16 |
| F 17 | 19 41 2 | 24°40'20 | 23° 3 | 4°39 | 4°12 | 25°22 | 20°21 | 4°23 | 19°13 | 18°26 | 26°39 | 24° 1 | 23°49 | 4°14 | 19°44 | F 17 |
| S 18 | 19 44 58 | 25°37'37 | 7 ≏ 26 | 5°38 | 3°55 | 26° 2 | 20°15 | 4°19 | 19°11 | 18°25 | 26°40 | 24° 1 | 23°46 | 4°21 | 19°41 | S 18 |
| S 19 | 19 48 55 | 26°34'55 | 21°32 | 6°43 | 3°40 | 26°42 | 20° 8 | 4°15 | 19° 9 | 18°23 | 26°41 | 24°D 1 | 23°43 | 4°27 | 19°38 | S 19 |
| M20 | 19 52 51 | 27°32'13 | 5 M .18 | 7°53 | 3°28 | 27°23 | 20° 2 | 4°11 | 19° 7 | 18°21 | 26°43 | 24° 1 | 23°39 | 4°34 | 19°35 | M20 |
| T 21 | 19 56 48 | 28°29'32 | 18°44 | 9° 8 | 3°18 | 28° 3 | 19°55 | 4° 7 | 19° 5 | 18°20 | 26°44 | 24° 1 | 23°36 | 4°41 | 19°32 | T 21 |
| W22 | 20 0 45 | 29°26'51 | 1 √ 52 | 10°28 | 3°10 | 28°43 | 19°48 | 4° 4 | 19° 2 | 18°18 | 26°45 | 24° 1 | 23°33 | 4°47 | 19°29 | W22 |
| T 23 | 20 441 | $0\Omega 24'10$ | 14°44 | 11°52 | 3° 5 | 29°23 | 19°41 | 4° 0 | 19° 0 | 18°17 | 26°46 | 24° 2 | 23°30 | 4°54 | 19°27 | T 23 |
| F 24 | 20 8 38 | 1°21'30 | 27°20 | 13°21 | 3° 3 | 099 3 | 19°34 | 3°56 | 18°58 | 18°15 | 26°48 | 24° 3 | 23°27 | 5° 1 | 19°24 | F 24 |
| S 25 | 20 12 34 | 2°18'51 | 9 ⋜ 45 | 14°55 | 3°D 2 | 0°43 | 19°27 | 3°53 | 18°56 | 18°14 | 26°49 | 24° 3 | 23°24 | 5° 7 | 19°21 | S 25 |
| S 26 | 20 16 31 | 3°16'13 | 21°58 | 16°32 | 3° 4 | 1°23 | 19°20 | 3°49 | 18°53 | 18°12 | 26°50 | 24°R 3 | 23°20 | 5°14 | 19°18 | S 26 |
| M27 | 20 20 27 | 4°13'35 | 4≈ 3 | 18°14 | 3° 8 | 2° 3 | 19°13 | 3°46 | 18°51 | 18°10 | 26°51 | 24° 3 | 23°17 | 5°21 | 19°15 | M27 |
| T 28 | 20 24 24 | 5°10'58 | 16° 1 | 19°59 | 3°14 | 2°43 | 19° 6 | 3°42 | 18°49 | 18° 9 | 26°52 | 24° 3 | 23°14 | 5°27 | 19°12 | T 28 |
| W29 | 20 28 21 | 6° 8'22 | 27°54 | 21°48 | 3°23 | 3°23 | 18°58 | 3°39 | 18°47 | 18° 7 | 26°54 | 24° 1 | 23°11 | 5°34 | 19° 9 | W29 |
| T 30 | 20 32 17 | 7° 5'47 | 9) (44 | 23°39 | 3°34 | 4° 2 | 18°51 | 3°36 | 18°44 | 18° 6 | 26°55 | 24° 0 | 23° 8 | 5°41 | 19° 6 | T 30 |
| F 31 | 20 36 14 | 8 Ω 3'14 | 21) 34 | 25933 | 39546 | 49542 | 18 ≈ 43 | 3 る 32 | 18 ≈ 42 | 18 궁 4 | 26耳56 | 239558 | 2395 4 | 5) (48 | 19 ≈ 3 | F 31 |

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Greg. Calendar

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|------|----------|------------------|-----------------|---------------|----------------|--------|----------------|---------------|----------------|----------------|----------------|--------|--------|---------------|----------------|------|
| S 1 | 20 40 10 | 9Ω 0'41 | 3 Υ27 | 27930 | 4 9 6 1 | 5922 | 18°R36 | 3°R29 | 18°R40 | 18°R 3 | 26П57 | 23°R55 | 2399 1 | 5) 54 | 19°R 0 | S 1 |
| S 2 | 20 44 7 | 9°58'10 | 15°26 | 29°29 | 4°18 | 6° 1 | 18 ≈ 28 | 3 ප 26 | 18 ≈ 37 | 18ට 1 | 26°58 | 23954 | 22°58 | 6° 1 | 18 ≈ 57 | S 2 |
| M 3 | 20 48 3 | 10°55'40 | 27°35 | 1 Ω 29 | 4°36 | 6°41 | 18°20 | 3°23 | 18°35 | 18° 0 | 26°59 | 23°52 | 22°55 | 6° 8 | 18°53 | M 3 |
| T 4 | 20 52 0 | 11°53'11 | 9 8 58 | 3°30 | 4°57 | 7°20 | 18°12 | 3°20 | 18°33 | 17°59 | 27° 0 | 23°D52 | 22°52 | 6°14 | 18°50 | T 4 |
| W 5 | 20 55 56 | 12°50'44 | 22°40 | 5°33 | 5°19 | 8° 0 | 18° 5 | 3°17 | 18°30 | 17°57 | 27° 1 | 23°52 | 22°49 | 6°21 | 18°47 | W 5 |
| T 6 | 20 59 53 | 13°48'18 | 5∏44 | 7°35 | 5°43 | 8°39 | 17°57 | 3°14 | 18°28 | 17°56 | 27° 2 | 23°53 | 22°45 | 6°28 | 18°44 | T 6 |
| F 7 | 21 3 49 | 14°45'54 | 19°12 | 9°39 | 6° 9 | 9°18 | 17°49 | 3°11 | 18°25 | 17°54 | 27° 4 | 23°54 | 22°42 | 6°34 | 18°41 | F 7 |
| S 8 | 21 7 46 | 15°43'31 | 395 8 | 11°42 | 6°36 | 9°58 | 17°41 | 3° 9 | 18°23 | 17°53 | 27° 5 | 23°56 | 22°39 | 6°41 | 18°38 | S 8 |
| S 9 | 21 11 43 | 16°41'10 | 17°29 | 13°45 | 7° 5 | 10°37 | 17°33 | 3° 6 | 18°21 | 17°51 | 27° 6 | 23°R57 | 22°36 | 6°48 | 18°35 | S 9 |
| M10 | 21 15 39 | 17°38'50 | 2 Ω 14 | 15°47 | 7°35 | 11°16 | 17°26 | 3° 4 | 18°18 | 17°50 | 27° 7 | 23°56 | 22°33 | 6°54 | 18°32 | M10 |
| T 11 | 21 19 36 | 18°36'31 | 17°15 | 17°49 | 8° 7 | 11°55 | 17°18 | 3° 1 | 18°16 | 17°49 | 27° 8 | 23°55 | 22°30 | 7° 1 | 18°28 | T 11 |
| W12 | 21 23 32 | 19°34'14 | 2 Mp 25 | 19°50 | 8°40 | 12°34 | 17°10 | 2°59 | 18°13 | 17°47 | 27° 9 | 23°53 | 22°26 | 7° 8 | 18°25 | W12 |
| T 13 | 21 27 29 | 20°31'58 | 17°34 | 21°50 | 9°14 | 13°13 | 17° 2 | 2°57 | 18°11 | 17°46 | 27° 9 | 23°50 | 22°23 | 7°14 | 18°22 | T 13 |
| F 14 | 21 31 25 | 21°29'43 | 2 ≏ 32 | 23°49 | 9°49 | 13°52 | 16°54 | 2°54 | 18° 9 | 17°45 | 27°10 | 23°46 | 22°20 | 7°21 | 18°19 | F 14 |
| S 15 | 21 35 22 | 22°27'29 | 17°12 | 25°46 | 10°26 | 14°31 | 16°46 | 2°52 | 18° 6 | 17°44 | 27°11 | 23°42 | 22°17 | 7°28 | 18°16 | S 15 |
| S 16 | 21 39 18 | 23°25'17 | 1 M 29 | 27°43 | 11° 4 | 15°10 | 16°39 | 2°50 | 18° 4 | 17°42 | 27°12 | 23°40 | 22°14 | 7°34 | 18°13 | S 16 |
| M17 | 21 43 15 | 24°23'06 | 15°19 | 29°38 | 11°43 | 15°48 | 16°31 | 2°48 | 18° 2 | 17°41 | 27°13 | 23°38 | 22°10 | 7°41 | 18°10 | M17 |
| T 18 | 21 47 12 | 25°20'55 | 28°43 | 1 m 32 | 12°24 | 16°27 | 16°23 | 2°47 | 17°59 | 17°40 | 27°14 | 23°D38 | 22° 7 | 7°48 | 18° 7 | T 18 |
| W19 | 21 51 8 | 26°18'47 | 11 ~ 144 | 3°25 | 13° 5 | 17° 6 | 16°16 | 2°45 | 17°57 | 17°39 | 27°15 | 23°39 | 22° 4 | 7°54 | 18° 4 | W19 |
| T 20 | 21 55 5 | 27°16'39 | 24°25 | 5°17 | 13°47 | 17°44 | 16° 8 | 2°43 | 17°54 | 17°38 | 27°16 | 23°40 | 22° 1 | 8° 1 | 18° 1 | T 20 |
| F 21 | 21 59 1 | 28°14'32 | 6 조 49 | 7° 7 | 14°31 | 18°23 | 16° 0 | 2°42 | 17°52 | 17°36 | 27°16 | 23°42 | 21°58 | 8° 8 | 17°57 | F 21 |
| S 22 | 22 2 58 | 29°12'27 | 19° 0 | 8°56 | 15°15 | 19° 1 | 15°53 | 2°40 | 17°50 | 17°35 | 27°17 | 23°R43 | 21°55 | 8°15 | 17°54 | S 22 |
| S 23 | 22 6 54 | 0 Mp 10'24 | 1≈ 2 | 10°43 | 16° 0 | 19°40 | 15°46 | 2°39 | 17°47 | 17°34 | 27°18 | 23°42 | 21°51 | 8°21 | 17°51 | S 23 |
| M24 | 22 10 51 | 1° 8'22 | 12°58 | 12°29 | 16°46 | 20°18 | 15°38 | 2°37 | 17°45 | 17°33 | 27°19 | 23°41 | 21°48 | 8°28 | 17°48 | M24 |
| T 25 | 22 14 47 | 2° 6'21 | 24°50 | 14°14 | 17°33 | 20°56 | 15°31 | 2°36 | 17°43 | 17°32 | 27°19 | 23°37 | 21°45 | 8°35 | 17°45 | T 25 |
| W26 | 22 18 44 | 3° 4'22 | 6) (40 | 15°58 | 18°21 | 21°35 | 15°24 | 2°35 | 17°41 | 17°31 | 27°20 | 23°32 | 21°42 | 8°41 | 17°42 | W26 |
| T 27 | 22 22 41 | 4° 2'24 | 18°31 | 17°40 | 19° 9 | 22°13 | 15°17 | 2°34 | 17°38 | 17°30 | 27°21 | 23°25 | 21°39 | 8°48 | 17°39 | T 27 |
| F 28 | 22 26 37 | 5° 0'28 | 0 Υ 23 | 19°21 | 19°58 | 22°51 | 15°10 | 2°33 | 17°36 | 17°29 | 27°21 | 23°17 | 21°36 | 8°55 | 17°37 | F 28 |
| S 29 | 22 30 34 | 5°58'34 | 12°20 | 21° 1 | 20°48 | 23°29 | 15° 3 | 2°32 | 17°34 | 17°28 | 27°22 | 23° 9 | 21°32 | 9° 1 | 17°34 | S 29 |
| S 30 | 22 34 30 | 6°56'42 | 24°23 | 22°40 | 21°39 | 24° 7 | 14°56 | 2°32 | 17°32 | 17°27 | 27°23 | 23° 2 | 21°29 | 9° 8 | 17°31 | S 30 |
| M31 | 22 38 27 | 7 m 54'52 | 6 8 35 | 24 Mp 17 | 22931 | 249945 | 14≈50 | 2 ප 31 | 17 ≈ 29 | 17 る 26 | 27 Ⅱ 23 | 22956 | 219526 | 9 米 15 | 17 ≈ 28 | M31 |

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SEPTEMBER 1665 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | P | ð | 4 | ħ |)∤(| ¥ | Р | ß | v | ţ | ę, | Day |
|------|----------|------------------|-----------------|----------------|---------------|----------------|----------------|----------------|--------|----------------|-----------------|--------|--------|----------------|----------------|------|
| T 1 | 22 42 23 | 8 m 53'04 | 18 8 58 | 25 m 53 | 239523 | 25923 | 14°R43 | 2°R30 | 17°R27 | 17°R25 | 27Ⅱ24 | 22°R52 | 219523 | 9) (21 | 17°R25 | T 1 |
| W 2 | 22 46 20 | 9°51'18 | 1 Ⅲ 37 | 27°28 | 24°16 | 26° 1 | 14 ≈ 37 | 2 ප 30 | 17≈25 | 17 る 25 | 27°25 | 22950 | 21°20 | 9°28 | 17 ≈ 22 | W 2 |
| T 3 | 22 50 16 | 10°49'34 | 14°35 | 29° 2 | 25° 9 | 26°38 | 14°30 | 2°30 | 17°23 | 17°24 | 27°25 | 22°D50 | 21°16 | 9°35 | 17°19 | T 3 |
| F 4 | 22 54 13 | 11°47'52 | 27°56 | 0 ჲ 35 | 26° 3 | 27°16 | 14°24 | 2°29 | 17°21 | 17°23 | 27°26 | 22°51 | 21°13 | 9°41 | 17°17 | F 4 |
| S 5 | 22 58 10 | 12°46'12 | 119542 | 2° 7 | 26°58 | 27°54 | 14°18 | 2°29 | 17°19 | 17°22 | 27°26 | 22°52 | 21°10 | 9°48 | 17°14 | S 5 |
| S 6 | 23 2 6 | 13°44'35 | 25°54 | 3°37 | 27°53 | 28°31 | 14°12 | 2°D29 | 17°17 | 17°22 | 27°27 | 22°R52 | 21° 7 | 9°55 | 17°11 | S 6 |
| M 7 | 23 6 3 | 14°42'59 | 10 Ω 32 | 5° 6 | 28°49 | 29° 9 | 14° 6 | 2°29 | 17°15 | 17°21 | 27°27 | 22°51 | 21° 4 | 10° 2 | 17° 9 | M 7 |
| T 8 | 23 9 59 | 15°41'26 | 25°31 | 6°34 | 29°45 | 29°46 | 14° 1 | 2°29 | 17°13 | 17°20 | 27°27 | 22°47 | 21° 1 | 10° 8 | 17° 6 | T 8 |
| W 9 | 23 13 56 | 16°39'54 | 10 M 44 | 8° 1 | 0 Ω 42 | 0 Ω 24 | 13°55 | 2°30 | 17°11 | 17°20 | 27°28 | 22°42 | 20°57 | 10°15 | 17° 3 | W 9 |
| T 10 | 23 17 52 | 17°38'24 | 26° 1 | 9°27 | 1°39 | 1° 1 | 13°50 | 2°30 | 17° 9 | 17°19 | 27°28 | 22°34 | 20°54 | 10°22 | 17° 1 | T 10 |
| F 11 | 23 21 49 | 18°36'57 | 11 ≏ 11 | 10°52 | 2°37 | 1°38 | 13°45 | 2°30 | 17° 7 | 17°18 | 27°29 | 22°26 | 20°51 | 10°28 | 16°58 | F 11 |
| S 12 | 23 25 45 | 19°35'30 | 26° 3 | 12°15 | 3°35 | 2°16 | 13°40 | 2°31 | 17° 5 | 17°18 | 27°29 | 22°17 | 20°48 | 10°35 | 16°56 | S 12 |
| S 13 | 23 29 42 | 20°34'06 | 10 M 31 | 13°37 | 4°33 | 2°53 | 13°35 | 2°32 | 17° 3 | 17°17 | 27°29 | 22°10 | 20°45 | 10°42 | 16°53 | S 13 |
| M14 | 23 33 39 | 21°32'44 | 24°30 | 14°58 | 5°32 | 3°30 | 13°30 | 2°32 | 17° 1 | 17°17 | 27°30 | 22° 5 | 20°41 | 10°48 | 16°51 | M14 |
| T 15 | 23 37 35 | 22°31'23 | 7 .₹ 59 | 16°17 | 6°32 | 4° 7 | 13°26 | 2°33 | 16°59 | 17°16 | 27°30 | 22° 2 | 20°38 | 10°55 | 16°49 | T 15 |
| W16 | 23 41 32 | 23°30'04 | 21° 1 | 17°35 | 7°32 | 4°44 | 13°21 | 2°34 | 16°57 | 17°16 | 27°30 | 22°D 1 | 20°35 | 11° 2 | 16°46 | W16 |
| T 17 | 23 45 28 | 24°28'46 | 3 る 40 | 18°52 | 8°32 | 5°21 | 13°17 | 2°35 | 16°56 | 17°16 | 27°30 | 22° 1 | 20°32 | 11°8 | 16°44 | T 17 |
| F 18 | 23 49 25 | 25°27'31 | 15°59 | 20° 7 | 9°33 | 5°57 | 13°13 | 2°36 | 16°54 | 17°15 | 27°31 | 22°R 2 | 20°29 | 11°15 | 16°42 | F 18 |
| S 19 | 23 53 21 | 26°26'17 | 28° 4 | 21°20 | 10°34 | 6°34 | 13° 9 | 2°37 | 16°52 | 17°15 | 27°31 | 22° 2 | 20°26 | 11°22 | 16°40 | S 19 |
| S 20 | 23 57 18 | 27°25'04 | 10≈ 0 | 22°32 | 11°35 | 7°11 | 13° 6 | 2°39 | 16°51 | 17°15 | 27°31 | 22° 0 | 20°22 | 11°29 | 16°38 | S 20 |
| M21 | 0 1 14 | 28°23'54 | 21°51 | 23°42 | 12°37 | 7°48 | 13° 2 | 2°40 | 16°49 | 17°14 | 27°31 | 21°56 | 20°19 | 11°35 | 16°36 | M21 |
| T 22 | 0 5 11 | 29°22'45 | 3 ∺ 40 | 24°50 | 13°39 | 8°24 | 12°59 | 2°42 | 16°48 | 17°14 | 27°31 | 21°49 | 20°16 | 11°42 | 16°34 | T 22 |
| W23 | 0 9 7 | 0 ≏ 21'39 | 15°30 | 25°56 | 14°42 | 9° 1 | 12°56 | 2°43 | 16°46 | 17°14 | 27°31 | 21°40 | 20°13 | 11°49 | 16°32 | W23 |
| T 24 | 0 13 4 | 1°20'34 | 27°24 | 27° 0 | 15°44 | 9°37 | 12°53 | 2°45 | 16°45 | 17°14 | 27°31 | 21°28 | 20°10 | 11°55 | 16°30 | T 24 |
| F 25 | 0 17 1 | 2°19'31 | 9 Ƴ 23 | 28° 2 | 16°47 | 10°13 | 12°50 | 2°47 | 16°43 | 17°14 | 27°32 | 21°15 | 20° 7 | 12° 2 | 16°28 | F 25 |
| S 26 | 0 20 57 | 3°18'30 | 21°28 | 29° 1 | 17°51 | 10°50 | 12°48 | 2°49 | 16°42 | 17°13 | 27°32 | 21° 2 | 20° 3 | 12° 9 | 16°26 | S 26 |
| S 27 | 0 24 54 | 4°17'32 | 3 8 40 | 29°57 | 18°55 | 11°26 | 12°46 | 2°51 | 16°40 | 17°13 | 27°R32 | 20°50 | 20° 0 | 12°15 | 16°24 | S 27 |
| M28 | 0 28 50 | 5°16'35 | 16° 1 | 0 M .50 | 19°59 | 12° 2 | 12°43 | 2°53 | 16°39 | 17°13 | 27°32 | 20°39 | 19°57 | 12°22 | 16°23 | M28 |
| T 29 | 0 32 47 | 6°15'41 | 28°31 | 1°41 | 21° 3 | 12°38 | 12°42 | <u>2°55</u> | 16°38 | 17°D13 | 27°32 | 20°31 | 19°54 | 12°29 | 16°21 | T 29 |
| W30 | 0 36 43 | 7 ≙ 14'50 | 11 II 15 | 2 M 27 | 22 N 8 | 13 Ω 14 | 12≈40 | 2 ප් 57 | 16≈36 | 17 る 13 | 27 I I31 | 20926 | 19951 | 12) 35 | 16≈19 | W30 |

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Greg. Calendar

| OCTOBER 1665 GC | 00:00 UT |
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|------|---------|------------------|----------------|----------------|----------------|----------------|--------|---------------|------------|----------------|----------------|--------|----------------|----------------|--------|------|
| T 1 | 0 40 40 | 8 ₽ 14'00 | 24 Ⅱ 13 | 3M10 | 23 £ 13 | 13 £ 50 | 12°R38 | 3ठ 0 | 16°R35 | 17 ට 13 | 27°R31 | 20°R24 | 19 9 47 | 12) 42 | 16°R18 | T 1 |
| F 2 | 0 44 36 | 9°13'13 | 7929 | 3°49 | 24°18 | 14°26 | 12≈37 | 3° 2 | 16≈34 | 17°14 | 27 Ⅲ 31 | 20°D23 | 19°44 | 12°49 | 16≈16 | F 2 |
| S 3 | 0 48 33 | 10°12'28 | 21° 5 | 4°23 | 25°23 | 15° 2 | 12°36 | 3° 5 | 16°33 | 17°14 | 27°31 | 20°R23 | 19°41 | 12°56 | 16°15 | S 3 |
| S 4 | 0 52 30 | 11°11'46 | 5 N 5 | 4°53 | 26°29 | 15°37 | 12°35 | 3° 7 | 16°32 | 17°14 | 27°31 | 209523 | 19°38 | 13° 2 | 16°13 | S 4 |
| M 5 | 0 56 26 | 12°11'06 | 19°28 | 5°17 | 27°35 | 16°13 | 12°34 | 3°10 | 16°31 | 17°14 | 27°31 | 20°20 | 19°35 | 13° 9 | 16°12 | M 5 |
| T 6 | 1 0 23 | 13°10'28 | 4 Mp 1 1 | 5°35 | 28°41 | 16°48 | 12°34 | 3°13 | 16°30 | 17°14 | 27°31 | 20°15 | 19°32 | 13°16 | 16°11 | T 6 |
| W 7 | 1 4 19 | 14° 9'53 | 19°11 | 5°46 | 29°48 | 17°24 | 12°33 | 3°16 | 16°29 | 17°14 | 27°30 | 20° 8 | 19°28 | 13°22 | 16°10 | W 7 |
| T 8 | 1 8 16 | 15° 9'19 | 4 ₽ 18 | 5°R51 | 0 ₯ 54 | 17°59 | 12°D33 | 3°19 | 16°28 | 17°15 | 27°30 | 19°58 | 19°25 | 13°29 | 16° 9 | T 8 |
| F 9 | 1 12 12 | 16° 8'48 | 19°23 | 5°48 | 2° 1 | 18°35 | 12°33 | 3°22 | 16°27 | 17°15 | 27°30 | 19°46 | 19°22 | 13°36 | 16° 7 | F 9 |
| S 10 | 1 16 9 | 17° 8'19 | 4 M .16 | 5°38 | 3° 8 | 19°10 | 12°33 | 3°25 | 16°26 | 17°15 | 27°30 | 19°34 | 19°19 | 13°42 | 16° 6 | S 10 |
| S 11 | 1 20 5 | 18° 7'52 | 18°47 | 5°19 | 4°16 | 19°45 | 12°34 | 3°28 | 16°26 | 17°16 | 27°29 | 19°24 | 19°16 | 13°49 | 16° 5 | S 11 |
| M12 | 1 24 2 | 19° 7'27 | 2 ₹ 51 | 4°52 | 5°23 | 20°20 | 12°35 | 3°31 | 16°25 | 17°16 | 27°29 | 19°16 | 19°13 | 13°56 | 16° 5 | M12 |
| T 13 | 1 27 59 | 20° 7'03 | 16°26 | 4°16 | 6°31 | 20°55 | 12°35 | 3°35 | 16°24 | 17°17 | 27°29 | 19°11 | 19° 9 | 14° 2 | 16° 4 | T 13 |
| W14 | 1 31 55 | 21° 6'42 | 29°33 | 3°32 | 7°39 | 21°30 | 12°36 | 3°38 | 16°24 | 17°17 | 27°28 | 19°8 | 19° 6 | 14° 9 | 16° 3 | W14 |
| T 15 | 1 35 52 | 22° 6'22 | 12 る 14 | 2°39 | 8°47 | 22° 5 | 12°38 | 3°42 | 16°23 | 17°18 | 27°28 | 19° 7 | 19° 3 | 14°16 | 16° 2 | T 15 |
| F 16 | 1 39 48 | 23° 6'04 | 24°35 | 1°39 | 9°55 | 22°40 | 12°39 | 3°46 | 16°22 | 17°18 | 27°28 | 19° 7 | 19° 0 | 14°23 | 16° 2 | F 16 |
| S 17 | 1 43 45 | 24° 5'47 | 6≈40 | 0°33 | 11° 4 | 23°14 | 12°41 | 3°49 | 16°22 | 17°19 | 27°27 | 19° 7 | 18°57 | 14°29 | 16° 1 | S 17 |
| S 18 | 1 47 41 | 25° 5'33 | 18°35 | 29 ॒ 21 | 12°13 | 23°49 | 12°43 | 3°53 | 16°22 | 17°20 | 27°27 | 19° 5 | 18°53 | 14°36 | 16° 1 | S 18 |
| M19 | 1 51 38 | 26° 5'20 | 0 ∺ 25 | 28° 6 | 13°21 | 24°23 | 12°45 | 3°57 | 16°21 | 17°20 | 27°26 | 19° 1 | 18°50 | 14°43 | 16° 0 | M19 |
| T 20 | 1 55 34 | 27° 5'08 | 12°14 | 26°50 | 14°30 | 24°57 | 12°47 | 4° 1 | 16°21 | 17°21 | 27°26 | 18°54 | 18°47 | 14°49 | 16° 0 | T 20 |
| W21 | 1 59 31 | 28° 4'59 | 24° 7 | 25°35 | 15°40 | 25°32 | 12°50 | 4° 5 | 16°21 | 17°22 | 27°25 | 18°44 | 18°44 | 14°56 | 15°59 | W21 |
| T 22 | 2 3 28 | 29° 4'51 | 6 Y 6 | 24°24 | 16°49 | 26° 6 | 12°52 | 4° 9 | 16°20 | 17°22 | 27°25 | 18°32 | 18°41 | 15° 3 | 15°59 | T 22 |
| F 23 | 2 7 24 | OM 4'45 | 18°13 | 23°18 | 17°58 | 26°40 | 12°55 | 4°14 | 16°20 | 17°23 | 27°24 | 18°18 | 18°38 | 15° 9 | 15°59 | F 23 |
| S 24 | 2 11 21 | 1° 4'41 | 0829 | 22°20 | 19° 8 | 27°14 | 12°58 | 4°18 | 16°20 | 17°24 | 27°24 | 18° 4 | 18°34 | 15°16 | 15°59 | S 24 |
| S 25 | 2 15 17 | 2° 4'39 | 12°55 | 21°31 | 20°18 | 27°48 | 13° 1 | 4°22 | 16°20 | 17°25 | 27°23 | 17°51 | 18°31 | 15°23 | 15°59 | S 25 |
| M26 | 2 19 14 | 3° 4'39 | 25°31 | 20°52 | 21°28 | 28°22 | 13° 5 | 4°27 | 16°D20 | 17°26 | 27°22 | 17°40 | 18°28 | 15°30 | 15°D59 | M26 |
| T 27 | 2 23 10 | 4° 4'41 | 8 Ⅲ 18 | 20°25 | 22°38 | 28°55 | 13° 8 | 4°31 | 16°20 | 17°27 | 27°22 | 17°32 | 18°25 | 15°36 | 15°59 | T 27 |
| W28 | 2 27 7 | 5° 4'45 | 21°15 | 20° 9 | 23°48 | 29°29 | 13°12 | 4°36 | 16°20 | 17°28 | 27°21 | 17°26 | 18°22 | 15°43 | 15°59 | W28 |
| T 29 | 2 31 3 | 6° 4'51 | 49524 | 20°D 5 | 24°59 | 0Mp 2 | 13°16 | 4°41 | 16°20 | 17°29 | 27°20 | 17°23 | 18°18 | 15°50 | 15°59 | T 29 |
| F 30 | 2 35 0 | 7° 5'00 | 17°46 | 20°12 | 26° 9 | 0°36 | 13°20 | 4°45 | 16°20 | 17°30 | 27°20 | 17°D23 | 18°15 | 15°56 | 15°59 | F 30 |
| S 31 | 2 38 57 | 8M 5'10 | 1 Ω 22 | 20 ♀ 30 | 27 m 20 | 1 Mp 9 | 13≈25 | 4 ろ 50 | 16≈21 | 17 云 31 | 27 I 19 | 17°R23 | 189512 | 16 米 3 | 16≈ 0 | S 31 |

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NOVEMBER 1665 GC 00:00 UT

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|------|---------|-------------------|-----------------|----------------|----------------|-----------------|-------|---------------|----------------|----------------|----------------|--------|--------|----------------|----------------|------|
| S 1 | 2 42 53 | 9M 5'23 | 15 Ω 14 | 20 ≏ 57 | 28 m 31 | 1 Mp 42 | 13≈29 | 4 궁 55 | 16≈21 | 17 궁 32 | 27°R18 | 17°R23 | 1895 9 | 16) 10 | 16≈ 0 | S 1 |
| M 2 | 2 46 50 | 10° 5'37 | 29°23 | 21°34 | 29°42 | 2°15 | 13°34 | 5° 0 | 16°21 | 17°33 | 27 I 17 | 179522 | 18° 6 | 16°16 | 16° 1 | M 2 |
| T 3 | 2 50 46 | 11° 5'54 | 13 M p47 | 22°19 | 0 ჲ 53 | 2°48 | 13°39 | 5° 5 | 16°22 | 17°34 | 27°17 | 17°18 | 18° 3 | 16°23 | 16° 1 | T 3 |
| W 4 | 2 54 43 | 12° 6'12 | 28°24 | 23°11 | 2° 4 | 3°21 | 13°44 | 5°10 | 16°22 | 17°35 | 27°16 | 17°11 | 17°59 | 16°30 | 16° 2 | W 4 |
| T 5 | 2 58 39 | 13° 6'33 | 13 ♀ 7 | 24° 9 | 3°16 | 3°54 | 13°49 | 5°15 | 16°23 | 17°36 | 27°15 | 17° 3 | 17°56 | 16°37 | 16° 2 | T 5 |
| F 6 | 3 2 36 | 14° 6'55 | 27°51 | 25°13 | 4°27 | 4°26 | 13°55 | 5°21 | 16°23 | 17°38 | 27°14 | 16°53 | 17°53 | 16°43 | 16° 3 | F 6 |
| S 7 | 3 6 32 | 15° 7'20 | 12 M 27 | 26°22 | 5°39 | 4°59 | 14° 0 | 5°26 | 16°24 | 17°39 | 27°13 | 16°42 | 17°50 | 16°50 | 16° 4 | S 7 |
| S 8 | 3 10 29 | 16° 7'46 | 26°47 | 27°35 | 6°50 | 5°31 | 14° 6 | 5°31 | 16°24 | 17°40 | 27°13 | 16°33 | 17°47 | 16°57 | 16° 5 | S 8 |
| M 9 | 3 14 25 | 17° 8'13 | 10 ∡ 746 | 28°52 | 8° 2 | 6° 3 | 14°12 | 5°37 | 16°25 | 17°42 | 27°12 | 16°26 | 17°44 | 17° 3 | 16° 6 | M 9 |
| T 10 | 3 18 22 | 18° 8'43 | 2 <u>4</u> °20 | 0 M 12 | 9°14 | 6°35 | 14°18 | 5°42 | 16°26 | 17°43 | 27°11 | 16°21 | 17°40 | 17°10 | 16° 6 | T 10 |
| W11 | 3 22 19 | 19° 9'13 | 7 궁 28 | 1°34 | 10°26 | 7° 7 | 14°24 | 5°48 | 16°27 | 17°44 | 27°10 | 16°19 | 17°37 | 17°17 | 16° 8 | W11 |
| T 12 | 3 26 15 | 20° 9'45 | 20°13 | 2°58 | 11°38 | 7°39 | 14°31 | 5°53 | 16°27 | 17°46 | 27° 9 | 16°D19 | 17°34 | 17°24 | 16° 9 | T 12 |
| F 13 | 3 30 12 | 21°10'19 | 2≈36 | 4°25 | 12°50 | 8°11 | 14°37 | 5°59 | 16°28 | 17°47 | 27° 8 | 16°19 | 17°31 | 17°30 | 16°10 | F 13 |
| S 14 | 3 34 8 | 22°10'53 | 14°44 | 5°52 | 14° 3 | 8°43 | 14°44 | 6° 5 | 16°29 | 17°49 | 27° 7 | 16°20 | 17°28 | 17°37 | 16°11 | S 14 |
| S 15 | 3 38 5 | 23°11'29 | 26°41 | 7°21 | 15°15 | 9°14 | 14°51 | 6°10 | 16°30 | 17°50 | 27° 6 | 16°R21 | 17°24 | 17°44 | 16°12 | S 15 |
| M16 | 3 42 1 | 24°12'06 | 8 ∺ 32 | 8°51 | 16°27 | 9°45 | 14°58 | 6°16 | 16°31 | 17°52 | 27° 5 | 16°19 | 17°21 | 17°50 | 16°14 | M16 |
| T 17 | 3 45 58 | 25°12'44 | 20°23 | 10°22 | 17°40 | 10°16 | 15° 6 | 6°22 | 16°32 | 17°53 | 27° 4 | 16°16 | 17°18 | 17°57 | 16°15 | T 17 |
| W18 | 3 49 55 | 26°13'23 | 2 Υ 18 | 11°54 | 18°52 | 10°47 | 15°13 | 6°28 | 16°34 | 17°55 | 27° 3 | 16°10 | 17°15 | 18° 4 | 16°17 | W18 |
| T 19 | 3 53 51 | 27°14'04 | 14°21 | 13°26 | 20° 5 | 11°18 | 15°21 | 6°34 | 16°35 | 17°56 | 27° 2 | 16° 3 | 17°12 | 18°10 | 16°18 | T 19 |
| F 20 | 3 57 48 | 28°14'45 | 26°35 | 14°58 | 21°18 | 11°49 | 15°28 | 6°40 | 16°36 | 17°58 | 27° 1 | 15°54 | 17° 9 | 18°17 | 16°20 | F 20 |
| S 21 | 4 1 44 | 29°15'28 | 9 8 2 | 16°31 | 22°31 | 12°19 | 15°36 | 6°46 | 16°37 | 17°59 | 27° 0 | 15°45 | 17° 5 | 18°24 | 16°21 | S 21 |
| S 22 | 4 5 41 | 0 ₮ 16'12 | 21°43 | 18° 4 | 23°44 | 12°50 | 15°44 | 6°52 | 16°39 | 18° 1 | 26°59 | 15°36 | 17° 2 | 18°31 | 16°23 | S 22 |
| M23 | 4 9 3 7 | 1°16'58 | 4 Ⅲ 38 | 19°38 | 24°57 | 13°20 | 15°52 | 6°58 | 16°40 | 18° 3 | 26°58 | 15°29 | 16°59 | 18°37 | 16°25 | M23 |
| T 24 | 4 13 34 | 2°17'45 | 17°46 | 21°11 | 26°10 | 13°50 | 16° 1 | 7° 4 | 16°42 | 18° 4 | 26°57 | 15°24 | 16°56 | 18°44 | 16°27 | T 24 |
| W25 | 4 17 30 | 3°18'33 | 199 6 | 22°45 | 27°23 | 14°20 | 16° 9 | 7°11 | 16°43 | 18° 6 | 26°56 | 15°21 | 16°53 | 18°51 | 16°29 | W25 |
| T 26 | 4 21 27 | 4°19'22 | 14°36 | 24°18 | 28°36 | 14°50 | 16°18 | 7°17 | 16°45 | 18° 8 | 26°55 | 15°D20 | 16°50 | 18°57 | 16°31 | T 26 |
| F 27 | 4 25 24 | 5°20'13 | 28°17 | 25°52 | 29°49 | 15°19 | 16°26 | 7°23 | 16°46 | 18°10 | 26°54 | 15°20 | 16°46 | 19° 4 | 16°33 | F 27 |
| S 28 | 4 29 20 | 6°21'05 | 12 0 7 | 27°26 | 1 M 3 | 15°49 | 16°35 | 7°30 | 16°48 | 18°12 | 26°53 | 15°22 | 16°43 | 19°11 | 16°35 | S 28 |
| S 29 | 4 33 17 | 7°21'59 | 26° 4 | 28°59 | 2°16 | 16°18 | 16°44 | 7°36 | 16°49 | 18°13 | 26°52 | 15°23 | 16°40 | 19°18 | 16°37 | S 29 |
| M30 | 4 37 13 | 8 ∡ 122'53 | 10 M)10 | 0 ≯ 33 | 3M29 | 16 M)47 | 16≈54 | 7 る 42 | 16 ≈ 51 | 18 궁 15 | 26耳50 | 15°R23 | 16937 | 19 ∺ 24 | 16 ≈ 39 | M30 |

Delta T = 32.46 sec Greg. Calendar

DECEMBER 1665 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| ħ | В | v | v | Ç | ę, | Day |
|--------------|--------------------|------------------------------|---------------------------------|------------------------|--------------------------------------|--------------------------|-------------------------|-----------------------|-------------------------|-------------------------|--------------------------|-----------------|----------------|-------------------------|-------------------------|--------------|
| T 1 W 2 | 4 41 10 4 45 6 | 9 ~ 23'50 10°24'47 | 24 ™ 21 8 Ω 37 | 2 √ 7 3°41 | 4 M .43 5°57 | 17 M)16 17°45 | 17 ≈ 3 17°12 | 7 云 49 7°55 | 16 ≈ 53 16°55 | 18 る 17 18°19 | 26°R49 26 Ⅱ 48 | 15°R23 15©20 | 16©34 16°30 | 19 ¥ 31 19°38 | 16 ≈ 41 16°43 | T 1 W 2 |
| T 3 | 4 49 3 | 11°25'46 | 22°55 | 5°15 | 7°10 | 18°13 | 17°22 | 8° 2 | 16°57 | 18°21 | 26°47 | 15°16 | 16°27 | 19°44 | 16°46 | T 3 |
| F 4 | 4 52 59 | 12°26'46 | 7 M 9 | 6°49 | 8°24 | 18°42 | 17°31 | 8° 9 | 16°58 | 18°23 | 26°46 | 15°11 | 16°24 | 19°51 | 16°48 | F 4 |
| S 5 | 4 56 56 | 13°27'47 | 21°17 | 8°22 | 9°38 | 19°10 | 17°41 | 8°15 | 17° 0 | 18°25 | 26°45 | 15° 5 | 16°21 | 19°58 | 16°51 | S 5 |
| S 6 | 5 0 53 | 14°28'49 | 5 ₹ 12 | 9°56 | 10°51 | 19°38 | 17°51 | 8°22 | 17° 2 | 18°27 | 26°44 | 15° 1 | 16°18 | 20° 4 | 16°53 | S 6 |
| M 7 | 5 4 49 | 15°29'52 | 18°52 | 11°30 | 12° 5 | 20° 5 | 18° 1 | 8°29 | 17° 4 | 18°29 | 26°42 | 14°57 | 16°15 | 20°11 | 16°56 | M 7 |
| T 8 W 9 | 5 8 46 5 12 42 | 16°30'56 17°32'00 | 2 る 13 15°14 | 13° 4 14°39 | 13°19 14°33 | 20°33 21° 0 | 18°11 18°22 | 8°35 8°42 | 17° 7 17° 9 | 18°31 18°33 | 26°41 26°40 | 14°55 14°D54 | 16°11 16° 8 | 20°18 20°25 | 16°58 17° 1 | T 8 W 9 |
| T 10 | 5 12 42 5 16 39 | 1/°32'00 18°33'05 | 27°56 | 14°39 16°13 | 14°33 | 21°27 | 18°22 18°32 | 8°42 8°49 | 17° 9 | 18°35 | 26°40 26°39 | 14°55 | 16° 8 | 20°23 20°31 | 17° 1 | T 10 |
| F 11 | 5 20 35 | 19°34'11 | 10≈20 | 17°47 | 17° 1 | 21°54 | 18°43 | 8°56 | 17°13 | 18°37 | 26°38 | 14°56 | 16° 2 | 20°38 | 17° 7 | F 11 |
| S 12 | 5 24 32 | 20°35'17 | 22°30 | 19°22 | 18°15 | 22°20 | 18°53 | 9° 2 | 17°15 | 18°39 | 26°36 | 14°58 | 15°59 | 20°45 | 17° 9 | S 12 |
| S 13 | 5 28 28 | 21°36'23 | 4) €28 | 20°56 | 19°29 | 22°47 | 19° 4 | 9° 9 | 17°17 | 18°41 | 26°35 | 15° 0 | 15°56 | 20°51 | 17°12 | S 13 |
| M14 | 5 32 25 | 22°37'30 | 16°21 | 22°31 | 20°43 | 23°13 | 19°15 | 9°16 | 17°20 | 18°43 | 26°34 | 15° 1 | 15°52 | 20°58 | 17°15 | M14 |
| T 15 | 5 36 22 | 23°38'37 | 28°13 | 24° 6 | 21°58 | 23°39 | 19°26 | 9°23 | 17°22 | 18°45 | 26°33 | 15°R 1 | 15°49 | 21° 5 | 17°18 | T 15 |
| W16 | 5 40 18 | 24°39'44 | 10 ° 8 | 25°41 | 23°12 | 24° 4 | 19°37 | 9°30 | 17°25 | 18°47 | 26°32 | 15° 0 | 15°46 | 21°12 | 17°21 | W16 |
| T 17 F 18 | 5 44 15 5 48 11 | 25°40'51 26°41'59 | 22°12 4 8 28 | 27°16 28°52 | 24°26 25°40 | 24°30 24°55 | 19°48 19°59 | 9°37 9°44 | 17°27 17°29 | 18°49 18°51 | 26°30 26°29 | 14°58 14°56 | 15°43 15°40 | 21°18 21°25 | 17°24 17°27 | T 17 F 18 |
| S 19 | 5 52 8 | 26°41°39 27°43'06 | 4 O 28 | 28°32 0 중 28 | 26°54 | 24°33 25°20 | 20°11 | 9°44 9°51 | 17°29 17°32 | 18°53 | 26°29 26°28 | 14°53 | 15°36 | 21°32 | 17°27 17°30 | S 19 |
| S 20 | 5 56 4 | 28°44'14 | 29°50 | 2° 4 | 28° 9 | 25°44 | 20°22 | 9°58 | 17°34 | 18°56 | 26°27 | 14°50 | 15°33 | 21°38 | 17°34 | S 20 |
| M21 | 6 0 1 | 29°45'23 | 13 I 0 | 3°40 | 29°23 | 25° 44 26° 8 | 20°34 | 10° 5 | 17°37 | 18°58 | 26°26 | 14°48 | 15°30 | 21°45 | 17°37 | M21 |
| T 22 | 6 3 57 | 0 ප් 46'31 | 26°28 | 5°16 | 0 , ₹37 | 26°33 | 20°45 | 10°12 | 17°40 | 19° 0 | 26°24 | 14°47 | 15°27 | 21°52 | 17°40 | T 22 |
| W23 | 6 7 54 | 1°47'40 | 109512 | 6°53 | 1°52 | 26°56 | 20°57 | 10°19 | 17°42 | 19° 2 | 26°23 | 14°D46 | 15°24 | 21°59 | 17°43 | W23 |
| T 24 | 6 11 51 | 2°48'48 | 24°11 | 8°30 | 3° 6 | 27°20 | 21° 9 | 10°26 | 17°45 | 19° 4 | 26°22 | 14°46 | 15°21 | 22° 5 | 17°47 | T 24 |
| F 25 | 6 15 47 | 3°49'58 | 8 Ω 21 | 10° 7 | 4°21 | 27°43 | 21°21 | 10°33 | 17°48 | 19° 7 | 26°21 | 14°47 | 15°17 | 22°12 | 17°50 | F 25 |
| S 26 | 6 19 44 | 4°51'07 | 22°36 | 11°45 | 5°35 | 28° 6 | 21°33 | 10°40 | 17°50 | 19° 9 | 26°20 | 14°48 | 15°14 | 22°19 | 17°54 | S 26 |
| S 27 | 6 23 40 | 5°52'17 | 6 m 54 | 13°22 | 6°50 | 28°28 | 21°45 | 10°47 | 17°53 | 19°11 | 26°19 | 14°49 | 15°11 | 22°25 | 17°57 | S 27 |
| M28 | 6 27 37 | 6°53'27 | 21°11 | 15° 0 | 8° 4 | 28°50 | 21°57 | 10°54 | 17°56 | 19°13 | 26°17 | 14°49 | 15° 8 | 22°32 | 18° 1 | M28 |
| T 29 W30 | 6 31 33 6 35 30 | 7°54'37 8°55'48 | 5 ≙ 24 19°31 | 16°38 18°17 | 9°19 10°33 | 29°12 29°34 | 22° 9 22°22 | 11° 1 11° 8 | 17°59 18° 2 | 19°15 19°18 | 26°16 26°15 | 14°R49 14°49 | 15° 5 15° 2 | 22°39 22°46 | 18° 4 18° 8 | T 29 W30 |
| T 31 | 6 39 26 | 8 33 48 9 云 56'58 | 3 M 30 | 19 七 55 | 10 33 11 × ⁷ 48 | 29 34 29 m 55 | 22 22 22 ≈ 34 | 11 8 | 18 ≥ 5 | 19 18 19 る 20 | 26 II 14 | 14 49 | 14958 | 22 1 52 | 10 0 18 ≈ 11 | T 31 |

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| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)/(| ¥ | В | ß | Ω | Ç | ę, | Day |
|--------------|--------------------|----------------------|-------------------------|-----------------|------------------------|---------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|--------------|
| F 1 | 6 43 23 | 10 ට 58'09 | 17 M _19 | 21 る 34 | 13 ×7 2 | 0 ჲ 16 | 22≈46 | 11 る 22 | 18 ≈ 7 | 19 る 22 | 26°R13 | 14°R49 | 14955 | 22) 59 | 18 ≈ 15 | F 1 |
| S 2 | 6 47 20 | 11°59'21 | 0 ≯ 58 | 23°12 | 14°17 | 0°36 | 22°59 | 11°29 | 18°10 | 19°24 | 26 I I11 | 149548 | 14°52 | 23° 6 | 18°19 | S 2 |
| S 3 | 6 51 16 | 13° 0'32 | 14°25 | 24°51 | 15°32 | 0°56 | 23°12 | 11°36 | 18°13 | 19°27 | 26°10 | 14°48 | 14°49 | 23°12 | 18°22 | S 3 |
| M 4 | 6 55 13 6 59 9 | 14° 1'43 15° 2'54 | 27°38 10 ⋜ 38 | 26°29 28° 7 | 16°46 18° 1 | 1°16 | 23°24 | 11°44 11°51 | 18°16 | 19°29 19°31 | 26° 9 | 14°48 14°48 | 14°46 14°42 | 23°19 | 18°26 | M 4 T 5 |
| T 5 W 6 | 7 3 6 | 15° 2'54 16° 4'05 | 23°23 | 28° / 29°44 | 18° 1 | 1°36 1°54 | 23°37 23°50 | 11°51 11°58 | 18°19 18°22 | 19°31 19°34 | 26° 8 26° 7 | 14°48 14°48 | 14°42 14°39 | 23°26 23°33 | 18°30 18°34 | W 6 |
| T 7 | 7 7 2 | 17° 5'15 | 23°23 5 ≈ 55 | 1 ≈ 21 | 20°30 | 2°13 | 24° 3 | 12° 5 | 18°25 | 19°36 | 26° 6 | 14°48 | 14°36 | 23°39 | 18°38 | T 7 |
| F 8 | 7 10 59 | 18° 6'25 | 18°13 | 2°57 | 21°45 | 2°31 | 24°16 | 12°12 | 18°29 | 19°38 | 26° 5 | 14°47 | 14°33 | 23°46 | 18°41 | F 8 |
| S 9 | 7 14 56 | 19° 7'35 | 0 ∺ 20 | 4°32 | 23° 0 | 2°49 | 24°29 | 12°19 | 18°32 | 19°40 | 26° 4 | 14°47 | 14°30 | 23°53 | 18°45 | S 9 |
| S 10 | 7 18 52 | 20° 8'43 | 12°19 | 6° 5 | 24°15 | 3° 6 | 24°42 | 12°26 | 18°35 | 19°43 | 26° 3 | 14°46 | 14°27 | 23°59 | 18°49 | S 10 |
| M11 | 7 22 49 | 21° 9'51 | 24°12 | 7°37 | 25°29 | 3°23 | 24°56 | 12°33 | 18°38 | 19°45 | 26° 1 | 14°45 | 14°23 | 24° 6 | 18°53 | M11 |
| T 12 | 7 26 45 | 22°10'58 | 6 Υ 3 | 9° 7 | 26°44 | 3°39 | 25° 9 | 12°40 | 18°41 | 19°47 | 26° 0 | 14°45 | 14°20 | 24°13 | 18°57 | T 12 |
| W13 | 7 30 42 | 23°12'05 | 17°57 | 10°34 | 27°59 | 3°55 | 25°22 | 12°47 | 18°44 | 19°50 | 25°59 | 14°D44 | 14°17 | 24°20 | 19° 1 | W13 |
| T 14 F 15 | 7 34 38 7 38 35 | 24°13'10 25°14'15 | 29°58 12 8 12 | 11°58 13°19 | 29°14 0 ♂ 28 | 4°11 4°26 | 25°35 25°49 | 12°54 13° 1 | 18°48 18°51 | 19°52 19°54 | 25°58 25°57 | 14°44 14°45 | 14°14 14°11 | 24°26 24°33 | 19° 5 19° 9 | T 14 F 15 |
| S 16 | 7 42 31 | 26°15'19 | 24°42 | 14°35 | 1°43 | 4°40 | 25° 49 | 13° 8 | 18°54 | 19°56 | 25°56 | 14°46 | 14° 11 | 24°40 | 19°13 | S 16 |
| S 17 | 7 46 28 | 27°16'21 | 7 Ⅲ 33 | 15°46 | 2°58 | 4°55 | 26°16 | 13°15 | 18°57 | 19°59 | 25°55 | 14°47 | 14° 4 | 24°46 | 19°17 | S 17 |
| M18 | 7 50 25 | 28°17'23 | 20°46 | 16°52 | 4°13 | 5° 8 | 26°29 | 13°22 | 19° 1 | 20° 1 | 25°54 | 14°48 | 14° 1 | 24°53 | 19°21 | M18 |
| T 19 | 7 54 21 | 29°18'24 | 49524 | 17°51 | 5°27 | 5°21 | 26°43 | 13°29 | 19° 4 | 20° 3 | 25°53 | 14°49 | 13°58 | 25° 0 | 19°26 | T 19 |
| W20 | 7 58 18 | 0≈19'24 | 18°26 | 18°43 | 6°42 | 5°34 | 26°57 | 13°36 | 19° 7 | 20° 5 | 25°52 | 14°R49 | 13°55 | 25° 7 | 19°30 | W20 |
| T 21 | 8 2 14 | 1°20'23 | 2 Ω 48 | 19°26 | 7°57 | 5°46 | 27°11 | 13°42 | 19°11 | 20° 8 | 25°51 | 14°48 | 13°52 | 25°13 | 19°34 | T 21 |
| F 22 | 8 6 11 | 2°21'22 | 17°26 | 20° 1 | 9°12 | 5°57 | 27°24 | 13°49 | 19°14 | 20°10 | 25°50 | 14°47 | 13°48 | 25°20 | 19°38 | F 22 |
| S 23 | 8 10 7 | 3°22'19 | 2 Mp 12 | 20°25 | 10°26 | 6° 8 | 27°38 | 13°56 | 19°17 | 20°12 | 25°49 | 14°45 | 13°45 | 25°27 | 19°42 | S 23 |
| S 24 | 8 14 4 | 4°23'15 | 16°58 | 20°39 | 11°41 | 6°18 | 27°52 | 14° 3 | 19°21 | 20°14 | 25°49 | 14°42 | 13°42 | 25°33 | 19°46 | S 24 |
| M25 T 26 | 8 18 0 8 21 57 | 5°24'11 6°25'06 | 1 ≙ 39 16°8 | 20°R43 20°35 | 12°56 14°11 | 6°28 6°37 | 28° 6 28°20 | 14°10 14°16 | 19°24 19°28 | 20°17 20°19 | 25°48 25°47 | 14°39 14°37 | 13°39 13°36 | 25°40 25°47 | 19°51 19°55 | M25 T 26 |
| W27 | 8 25 54 | 7°26'00 | 0ML20 | 20°16 | 15°26 | 6°46 | 28°34 | 14°10 | 19 28 19°31 | 20°21 | 25°46 | 14°36 | 13°33 | 25°54 | 19°59 | W27 |
| T 28 | 8 29 50 | 8°26'53 | 14°15 | 19°45 | 16°41 | 6°54 | 28°48 | 14°30 | 19°34 | 20°23 | 25°45 | 14°D36 | 13°29 | 26° 0 | 20° 3 | T 28 |
| F 29 | 8 33 47 | 9°27'46 | 27°52 | 19° 5 | 17°55 | 7° 1 | 29° 2 | 14°37 | 19°38 | 20°25 | 25°44 | 14°37 | 13°26 | 26° 7 | 20° 8 | F 29 |
| S 30 | 8 37 43 | 10°28'38 | 11🗖11 | 18°15 | 19°10 | 7° 8 | 29°16 | 14°43 | 19°41 | 20°28 | 25°43 | 14°38 | 13°23 | 26°14 | 20°12 | S 30 |
| S 31 | 8 41 40 | 11≈29'29 | 24 × 15 | 17≈17 | 20 ට 25 | 7 ≙ 14 | 29≈30 | 14 궁 50 | 19 ≈ 45 | 20 궁 30 | 25 Ⅱ 43 | 149540 | 139520 | 26 ∺ 20 | 20≈16 | S 31 |

Delta T = 32.35 sec

Greg. Calendar

FEBRUARY 1666 GC 00:00 UT

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|------|----------|-------------------|-----------------|----------------|----------------|---------------|---------------|----------------|------------------|----------------|----------------|--------|--------|----------------|-------|------|
| M 1 | 8 45 36 | 12≈30'19 | 7 る 4 | 16°R13 | 21 궁 40 | 7 ≙ 19 | 29≈44 | 14 궁 56 | 19 ≈ 48 | 20중32 | 25°R42 | 149541 | 139917 | 26) 27 | 20≈21 | M 1 |
| T 2 | 8 49 33 | 13°31'08 | 19°42 | 15 ≈ 5 | 22°55 | 7°24 | 29°58 | 15° 3 | 19°52 | 20°34 | 25 Ⅱ 41 | 14°R41 | 13°14 | 26°34 | 20°25 | T 2 |
| W 3 | 8 53 29 | 14°31'55 | 2≈ 9 | 13°53 | 24°10 | 7°28 | 0 ∺ 13 | 15° 9 | 19°55 | 20°36 | 25°40 | 14°40 | 13°10 | 26°41 | 20°29 | W 3 |
| T 4 | 8 57 26 | 15°32'42 | 14°26 | 12°42 | 25°24 | 7°31 | 0°27 | 15°16 | 19°59 | 20°38 | 25°40 | 14°37 | 13° 7 | 26°47 | 20°33 | T 4 |
| F 5 | 9 1 23 | 16°33'27 | 26°34 | 11°32 | 26°39 | 7°33 | 0°41 | 15°22 | 20° 2 | 20°40 | 25°39 | 14°32 | 13° 4 | 26°54 | 20°38 | F 5 |
| S 6 | 9 5 19 | 17°34'11 | 8 ∺ 36 | 10°24 | 27°54 | 7°35 | 0°55 | 15°29 | 20° 5 | 20°42 | 25°38 | 14°27 | 13° 1 | 27° 1 | 20°42 | S 6 |
| S 7 | 9 9 16 | 18°34'53 | 20°32 | 9°22 | 29° 9 | 7°37 | 1°10 | 15°35 | 20° 9 | 20°44 | 25°37 | 14°20 | 12°58 | 27° 7 | 20°46 | S 7 |
| M 8 | 9 13 12 | 19°35'33 | 2 Υ 24 | 8°25 | 0≈24 | 7°R37 | 1°24 | 15°41 | 20°12 | 20°47 | 25°37 | 14°13 | 12°54 | 27°14 | 20°51 | M 8 |
| T 9 | 9 17 9 | 20°36'12 | 14°15 | 7°35 | 1°39 | 7°37 | 1°38 | 15°48 | 20°16 | 20°49 | 25°36 | 14° 8 | 12°51 | 27°21 | 20°55 | T 9 |
| W10 | 9 21 5 | 21°36'49 | 26° 8 | 6°53 | 2°53 | 7°36 | 1°53 | 15°54 | 20°19 | 20°51 | 25°36 | 14° 3 | 12°48 | 27°28 | 20°59 | W10 |
| T 11 | 9 25 2 | 22°37'25 | 8 8 7 | 6°18 | 4° 8 | 7°34 | 2° 7 | 16° 0 | 20°23 | 20°53 | 25°35 | 14° 0 | 12°45 | 27°34 | 21° 4 | T 11 |
| F 12 | 9 28 58 | 23°37'59 | 20°17 | 5°51 | 5°23 | 7°31 | 2°22 | 16° 6 | 20°26 | 20°55 | 25°34 | 13°D59 | 12°42 | 27°41 | 21° 8 | F 12 |
| S 13 | 9 32 55 | 24°38'31 | 2 Ⅱ 41 | 5°31 | 6°38 | 7°28 | 2°36 | 16°12 | 20°30 | 20°57 | 25°34 | 13°59 | 12°39 | 27°48 | 21°12 | S 13 |
| S 14 | 9 36 52 | 25°39'01 | 15°26 | 5°19 | 7°53 | 7°24 | 2°50 | 16°18 | 20°33 | 20°59 | 25°33 | 14° 0 | 12°35 | 27°55 | 21°17 | S 14 |
| M15 | 9 40 48 | 26°39'29 | 28°34 | 5°D15 | 9° 7 | 7°19 | 3° 5 | 16°24 | 20°37 | 21° 1 | 25°33 | 14° 2 | 12°32 | 28° 1 | 21°21 | M15 |
| T 16 | 9 44 45 | 27°39'56 | 129510 | 5°17 | 10°22 | 7°13 | 3°19 | 16°30 | 20°40 | 21° 2 | 25°32 | 14°R 2 | 12°29 | 28° 8 | 21°25 | T 16 |
| W17 | 9 48 41 | 28°40'20 | 26°14 | 5°26 | 11°37 | 7° 7 | 3°34 | 16°36 | 20°44 | 21° 4 | 25°32 | 14° 2 | 12°26 | 28°15 | 21°29 | W17 |
| T 18 | 9 52 38 | 29°40'43 | 10 Ω 45 | 5°41 | 12°52 | 7° 0 | 3°48 | 16°42 | 20°47 | 21° 6 | 25°31 | 13°59 | 12°23 | 28°21 | 21°34 | T 18 |
| F 19 | 9 56 34 | 0) (41′04 | 25°38 | 6° 1 | 14° 6 | 6°52 | 4° 3 | 16°47 | 20°50 | 21° 8 | 25°31 | 13°54 | 12°19 | 28°28 | 21°38 | F 19 |
| S 20 | 10 031 | 1°41'23 | 10 m /46 | 6°28 | 15°21 | 6°43 | 4°17 | 16°53 | 20°54 | 21°10 | 25°31 | 13°48 | 12°16 | 28°35 | 21°42 | S 20 |
| S 21 | 10 4 27 | 2°41'41 | 25°58 | 6°59 | 16°36 | 6°33 | 4°32 | 16°59 | 20°57 | 21°12 | 25°30 | 13°40 | 12°13 | 28°42 | 21°47 | S 21 |
| M22 | 10 8 24 | 3°41'56 | 11 ♀ 4 | 7°34 | 17°51 | 6°23 | 4°46 | 17° 4 | 21° 1 | 21°14 | 25°30 | 13°32 | 12°10 | 28°48 | 21°51 | M22 |
| T 23 | 10 12 20 | 4°42'10 | 25°54 | 8°14 | 19° 5 | 6°12 | 5° 1 | 17°10 | 21° 4 | 21°15 | 25°29 | 13°26 | 12° 7 | 28°55 | 21°55 | T 23 |
| W24 | 10 16 17 | 5°42'23 | 10 M 23 | 8°58 | 20°20 | 6° 0 | 5°15 | 17°15 | 21° 8 | 21°17 | 25°29 | 13°21 | 12° 4 | 29° 2 | 21°59 | W24 |
| T 25 | 10 20 14 | 6°42'34 | 24°26 | 9°46 | 21°35 | 5°48 | 5°30 | 17°21 | 21°11 | 21°19 | 25°29 | 13°18 | 12° 0 | 29° 8 | 22° 3 | T 25 |
| F 26 | 10 24 10 | 7°42'44 | 8 ∡ 3 | 10°37 | 22°49 | 5°34 | 5°44 | 17°26 | 21°14 | 21°21 | 25°29 | 13°D18 | 11°57 | 29°15 | 22° 8 | F 26 |
| S 27 | 10 28 7 | 8°42'52 | 21°17 | 11°31 | 24° 4 | 5°20 | 5°59 | 17°32 | 21°18 | 21°22 | 25°28 | 13°18 | 11°54 | 29°22 | 22°12 | S 27 |
| S 28 | 10 32 3 | 9 ¥ 42'59 | 4 ට 10 | 12 ≈ 29 | 25≈19 | 5 ≙ 5 | 6 ¥ 13 | 17 る 37 | 21≈21 | 21 궁 24 | 25Ⅲ28 | 139519 | 11951 | 29 米 29 | 22≈16 | S 28 |

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| M 1 | 10 36 0 | 10) (43'04 | 16 궁 46 | 13≈29 | 26≈34 | 4°R50 | 6 ∺ 28 | 17 る 42 | 21≈24 | 21 궁 26 | 25°R28 | 13°R19 | 119548 | 29) (35 | 22≈20 | M 1 |
| T 2 | 10 39 56 | 11°43'08 | 29° 8 | 14°31 | 27°48 | 4 ≏ 34 | 6°42 | 17°47 | 21°28 | 21°27 | 25耳28 | 139518 | 11°45 | 29°42 | 22°24 | T 2 |
| W 3 | 10 43 53 | 12°43'09 | 11≈20 | 15°36 | 29° 3 | 4°17 | 6°57 | 17°52 | 21°31 | 21°29 | 25°28 | 13°14 | 11°41 | 29°49 | 22°28 | W 3 |
| T 4 | 10 47 49 | 13°43'09 | 23°24 | 16°43 | 0) (18 | 3°59 | 7°11 | 17°57 | 21°34 | 21°30 | 25°27 | 13° 8 | 11°38 | 29°55 | 22°32 | T 4 |
| F 5 | 10 51 46 | 14°43'07 | 5) 23 | 17°53 | 1°32 | 3°41 | 7°25 | 18° 2 | 21°38 | 21°32 | 25°27 | 12°58 | 11°35 | oΥ 2 | 22°37 | F 5 |
| S 6 | 10 55 43 | 15°43'03 | 17°18 | 19° 4 | 2°47 | 3°22 | 7°40 | 18° 7 | 21°41 | 21°34 | 25°27 | 12°47 | 11°32 | 0° 9 | 22°41 | S 6 |
| S 7 | 10 59 39 | 16°42'57 | 29°11 | 20°18 | 4° 2 | 3° 3 | 7°54 | 18°12 | 21°44 | 21°35 | 25°27 | 12°35 | 11°29 | 0°16 | 22°45 | S 7 |
| M 8 | 11 3 36 | 17°42'49 | 11 ° 3 | 21°33 | 5°16 | 2°43 | 8° 9 | 18°16 | 21°47 | 21°37 | 25°27 | 12°22 | 11°25 | 0°22 | 22°49 | M 8 |
| T 9 | 11 7 32 | 18°42'39 | 22°55 | 22°50 | 6°31 | 2°23 | 8°23 | 18°21 | 21°50 | 21°38 | 25°D27 | 12°10 | 11°22 | 0°29 | 22°53 | T 9 |
| W10 | 11 11 29 | 19°42'27 | 4 8 50 | 24° 9 | 7°46 | 2° 2 | 8°37 | 18°26 | 21°54 | 21°39 | 25°27 | 12° 0 | 11°19 | 0°36 | 22°57 | W10 |
| T 11 | 11 15 25 | 20°42'13 | 16°50 | 25°29 | 9° 0 | 1°41 | 8°52 | 18°30 | 21°57 | 21°41 | 25°27 | 11°52 | 11°16 | 0°42 | 23° 1 | T 11 |
| F 12 | 11 19 22 | 21°41'56 | 28°59 | 26°51 | 10°15 | 1°19 | 9° 6 | 18°34 | 22° 0 | 21°42 | 25°27 | 11°47 | 11°13 | 0°49 | 23° 4 | F 12 |
| S 13 | 11 23 18 | 22°41'38 | 11 II 21 | 28°15 | 11°29 | 0°57 | 9°20 | 18°39 | 22° 3 | 21°43 | 25°27 | 11°45 | 11°10 | 0°56 | 23° 8 | S 13 |
| S 14 | 11 27 15 | 23°41'17 | 24° 0 | 29°40 | 12°44 | 0°35 | 9°35 | 18°43 | 22° 6 | 21°45 | 25°27 | 11°D44 | 11° 6 | 1° 3 | 23°12 | S 14 |
| M15 | 11 31 12 | 24°40'53 | 7 95 2 | 1 米 6 | 13°59 | 0°12 | 9°49 | 18°47 | 22° 9 | 21°46 | 25°27 | 11°R44 | 11° 3 | 1° 9 | 23°16 | M15 |
| T 16 | 11 35 8 | 25°40'28 | 20°29 | 2°34 | 15°13 | 29 Mp 49 | 10° 3 | 18°51 | 22°12 | 21°47 | 25°28 | 11°44 | 11° 0 | 1°16 | 23°20 | T 16 |
| W17 | 11 39 5 | 26°40'00 | 4Ω 24 | 4° 4 | 16°28 | 29°26 | 10°17 | 18°55 | 22°15 | 21°49 | 25°28 | 11°42 | 10°57 | 1°23 | 23°24 | W17 |
| T 18 | 11 43 1 | 27°39'29 | 18°49 | 5°34 | 17°42 | 29° 3 | 10°32 | 18°59 | 22°18 | 21°50 | 25°28 | 11°38 | 10°54 | 1°30 | 23°27 | T 18 |
| F 19 | 11 46 58 | 28°38'57 | 3 m 40 | 7° 7 | 18°57 | 28°40 | 10°46 | 19° 3 | 22°21 | 21°51 | 25°28 | 11°31 | 10°51 | 1°36 | 23°31 | F 19 |
| S 20 | 11 50 54 | 29°38'22 | 18°51 | 8°40 | 20°11 | 28°16 | 11° 0 | 19° 7 | 22°24 | 21°52 | 25°28 | 11°22 | 10°47 | 1°43 | 23°35 | S 20 |
| S 21 | 11 54 51 | 0 Ƴ 37'45 | 4 ₾ 13 | 10°15 | 21°26 | 27°53 | 11°14 | 19°11 | 22°27 | 21°53 | 25°29 | 11°11 | 10°44 | 1°50 | 23°38 | S 21 |
| M22 | 11 58 47 | 1°37'06 | 19°32 | 11°51 | 22°40 | 27°30 | 11°28 | 19°14 | 22°30 | 21°54 | 25°29 | 11° 0 | 10°41 | 1°56 | 23°42 | M22 |
| T 23 | 12 2 44 | 2°36'25 | 4 M J39 | 13°29 | 23°55 | 27° 7 | 11°42 | 19°18 | 22°33 | 21°55 | 25°29 | 10°51 | 10°38 | 2° 3 | 23°46 | T 23 |
| W24 | 12 641 | 3°35'42 | 19°23 | 15° 8 | 25° 9 | 26°43 | 11°56 | 19°21 | 22°36 | 21°56 | 25°30 | 10°43 | 10°35 | 2°10 | 23°49 | W24 |
| T 25 | 12 10 37 | 4°34'57 | 3 , ₹39 | 16°48 | 26°23 | 26°20 | 12°10 | 19°25 | 22°38 | 21°57 | 25°30 | 10°38 | 10°31 | 2°17 | 23°53 | T 25 |
| F 26 | 12 14 34 | 5°34'11 | 17°26 | 18°30 | 27°38 | 25°58 | 12°24 | 19°28 | 22°41 | 21°58 | 25°30 | 10°35 | 10°28 | 2°23 | 23°56 | F 26 |
| S 27 | 12 18 30 | 6°33'23 | 0 궁 44 | 20°13 | 28°52 | 25°35 | 12°38 | 19°31 | 22°44 | 21°59 | 25°31 | 10°34 | 10°25 | 2°30 | 24° 0 | S 27 |
| S 28 | 12 22 27 | 7°32'33 | 13°37 | 21°57 | 0 Υ 7 | 25°13 | 12°52 | 19°34 | 22°47 | 22° 0 | 25°31 | 10°34 | 10°22 | 2°37 | 24° 3 | S 28 |
| M29 | 12 26 23 | 8°31'42 | 26°10 | 23°43 | 1°21 | 24°51 | 13° 5 | 19°37 | 22°49 | 22° 1 | 25°32 | 10°34 | 10°19 | 2°43 | 24° 6 | M29 |
| T 30 | 12 30 20 | 9°30'48 | 8≈26 | 25°31 | 2°36 | 24°29 | 13°19 | 19°40 | 22°52 | 22° 2 | 25°32 | 10°31 | 10°16 | 2°50 | 24°10 | T 30 |
| W31 | 12 34 16 | 10 Y 29'53 | 20≈31 | 27 米 20 | 3Υ 50 | 24M) 8 | 13 ∺ 33 | 19 る 43 | 22≈55 | 22 る 3 | 25 Ⅱ 32 | 109527 | 109512 | 2 Ƴ 57 | 24≈13 | W31 |

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|------|----------|-------------------|-----------------|----------------|--------------|-----------------|------------------|----------------|-------|----------------|----------------|--------|---------------|---------------|-------|------|
| T 1 | 12 38 13 | 11 Y 28'55 | 2) 28 | 29 米 10 | 5 ℃ 4 | 23°R47 | 13) (46 | 19 る 46 | 22≈57 | 22중 3 | 25 Ⅲ 33 | 10°R19 | 1095 9 | 3 Υ 4 | 24≈16 | T 1 |
| F 2 | 12 42 10 | 12°27'56 | 14°21 | 1 Υ 1 | 6°19 | 23 m 27 | 14° 0 | 19°49 | 23° 0 | 22° 4 | 25°33 | 1095 9 | 10° 6 | 3°10 | 24°19 | F 2 |
| S 3 | 12 46 6 | 13°26'55 | 26°13 | 2°55 | 7°33 | 23° 7 | 14°14 | 19°51 | 23° 2 | 22° 5 | 25°34 | 9°56 | 10° 3 | 3°17 | 24°23 | S 3 |
| S 4 | 12 50 3 | 14°25'52 | 8 Υ 4 | 4°49 | 8°47 | 22°48 | 14°27 | 19°54 | 23° 5 | 22° 5 | 25°35 | 9°42 | 10° 0 | 3°24 | 24°26 | S 4 |
| M 5 | 12 53 59 | 15°24'47 | 19°58 | 6°45 | 10° 2 | 22°29 | 14°41 | 19°56 | 23° 7 | 22° 6 | 25°35 | 9°27 | 9°56 | 3°31 | 24°29 | M 5 |
| T 6 | 12 57 56 | 16°23'40 | 1 8 54 | 8°43 | 11°16 | 22°11 | 14°54 | 19°58 | 23°10 | 22° 7 | 25°36 | 9°14 | 9°53 | 3°37 | 24°32 | T 6 |
| W 7 | 13 1 52 | 17°22'31 | 13°55 | 10°41 | 12°30 | 21°54 | 15° 7 | 20° 1 | 23°12 | 22° 7 | 25°36 | 9° 2 | 9°50 | 3°44 | 24°35 | W 7 |
| T 8 | 13 5 49 | 18°21'19 | 26° 2 | 12°42 | 13°44 | 21°37 | 15°21 | 20° 3 | 23°14 | 22° 8 | 25°37 | 8°53 | 9°47 | 3°51 | 24°38 | T 8 |
| F 9 | 13 9 45 | 19°20'06 | 8 Ⅱ 17 | 14°43 | 14°59 | 21°21 | 15°34 | 20° 5 | 23°17 | 22° 8 | 25°38 | 8°47 | 9°44 | 3°57 | 24°41 | F 9 |
| S 10 | 13 13 42 | 20°18'51 | 20°43 | 16°46 | 16°13 | 21° 5 | 15°47 | 20° 7 | 23°19 | 22° 9 | 25°38 | 8°44 | 9°41 | 4° 4 | 24°43 | S 10 |
| S 11 | 13 17 38 | 21°17'33 | 39524 | 18°50 | 17°27 | 20°51 | 16° 0 | 20° 8 | 23°21 | 22° 9 | 25°39 | 8°D42 | 9°37 | 4°11 | 24°46 | S 11 |
| M12 | 13 21 35 | 22°16'13 | 16°23 | 20°55 | 18°41 | 20°37 | 16°13 | 20°10 | 23°23 | 22°10 | 25°40 | 8°R42 | 9°34 | 4°18 | 24°49 | M12 |
| T 13 | 13 25 32 | 23°14'51 | 29°44 | 23° 1 | 19°56 | 20°23 | 16°26 | 20°12 | 23°25 | 22°10 | 25°41 | 8°42 | 9°31 | 4°24 | 24°52 | T 13 |
| W14 | 13 29 28 | 24°13'26 | 13 £ 30 | 25° 8 | 21°10 | 20°11 | 16°39 | 20°13 | 23°27 | 22°10 | 25°41 | 8°41 | 9°28 | 4°31 | 24°54 | W14 |
| T 15 | 13 33 25 | 25°11'59 | 27°42 | 27°15 | 22°24 | 19°59 | 16°52 | 20°15 | 23°30 | 22°11 | 25°42 | 8°38 | 9°25 | 4°38 | 24°57 | T 15 |
| F 16 | 13 37 21 | 26°10'30 | 12 Mp 20 | 29°23 | 23°38 | 19°48 | 17° 5 | 20°16 | 23°32 | 22°11 | 25°43 | 8°32 | 9°22 | 4°44 | 25° 0 | F 16 |
| S 17 | 13 41 18 | 27° 8'59 | 27°18 | 1831 | 24°52 | 19°38 | 17°18 | 20°18 | 23°34 | 22°11 | 25°44 | 8°24 | 9°18 | 4°51 | 25° 2 | S 17 |
| S 18 | 13 45 14 | 28° 7'25 | 12 ≏ 30 | 3°38 | 26° 6 | 19°29 | 17°31 | 20°19 | 23°35 | 22°11 | 25°45 | 8°14 | 9°15 | 4°58 | 25° 5 | S 18 |
| M19 | 13 49 11 | 29° 5'50 | 27°44 | 5°46 | 27°20 | 19°21 | 17°43 | 20°20 | 23°37 | 22°12 | 25°45 | 8° 4 | 9°12 | 5° 5 | 25° 7 | M19 |
| T 20 | 13 53 7 | 0 8 4'13 | 12 M 51 | 7°52 | 28°35 | 19°13 | 17°56 | 20°21 | 23°39 | 22°12 | 25°46 | 7°54 | 9° 9 | 5°11 | 25° 9 | T 20 |
| W21 | 13 57 4 | 1° 2'34 | 27°39 | 9°58 | 29°49 | 19° 6 | 18° 8 | 20°22 | 23°41 | 22°12 | 25°47 | 7°47 | 9° 6 | 5°18 | 25°12 | W21 |
| T 22 | 14 1 1 | 2° 0'53 | 12 × 3 | 12° 2 | 18 3 | 19° 0 | 18°21 | 20°22 | 23°43 | 22°12 | 25°48 | 7°42 | 9° 2 | 5°25 | 25°14 | T 22 |
| F 23 | 14 4 57 | 2°59'11 | 25°57 | 14° 5 | 2°17 | 18°54 | 18°33 | 20°23 | 23°45 | 22°12 | 25°49 | 7°40 | 8°59 | 5°32 | 25°16 | F 23 |
| S 24 | 14 8 54 | 3°57'28 | 9 ට 23 | 16° 6 | 3°31 | 18°50 | 18°45 | 20°24 | 23°46 | 22°R12 | 25°50 | 7°D39 | 8°56 | 5°38 | 25°18 | S 24 |
| S 25 | 14 12 50 | 4°55'42 | 22°22 | 18° 5 | 4°45 | 18°46 | 18°57 | 20°24 | 23°48 | 22°12 | 25°51 | 7°40 | 8°53 | 5°45 | 25°20 | S 25 |
| M26 | 14 16 47 | 5°53'56 | 4≈58 | 20° 1 | 5°59 | 18°43 | 19° 9 | 20°25 | 23°49 | 22°12 | 25°52 | 7°R40 | 8°50 | 5°52 | 25°22 | M26 |
| T 27 | 14 20 43 | 6°52'07 | 17°16 | 21°54 | 7°13 | 18°41 | 19°22 | 20°25 | 23°51 | 22°12 | 25°53 | 7°40 | 8°47 | 5°58 | 25°24 | T 27 |
| W28 | 14 24 40 | 7°50'17 | 29°20 | 23°45 | 8°27 | 18°39 | 19°33 | 20°25 | 23°53 | 22°12 | 25°54 | 7°37 | 8°43 | 6° 5 | 25°26 | W28 |
| T 29 | 14 28 36 | 8°48'26 | 11) (16 | 25°32 | 9°41 | 18°D38 | 19°45 | 20°R25 | 23°54 | 22°12 | 25°55 | 7°32 | 8°40 | 6°12 | 25°28 | T 29 |
| F 30 | 14 32 33 | 9 8 46'33 | 23 米 8 | 27816 | 10855 | 18 TD 38 | 19 米 57 | 20 ට 25 | 23≈55 | 22 ਰ 11 | 25耳56 | 79925 | 8 9 37 | 6 Υ 19 | 25≈30 | F 30 |

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| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)ұ(| 卉 | Р | 'n | v | Ç | ę, | Day |
|------|----------|------------------|----------------|----------------|---------------|----------------|----------------|----------------|--------|----------------|----------------|--------------|------|---------------|--------|------|
| S 1 | 14 36 30 | 10844'39 | 4 Υ59 | 28 8 57 | 128 9 | 18 m 39 | 20 ∺ 9 | 20°R25 | 23≈57 | 22°R11 | 25 Ⅱ 57 | 7°R16 | 8934 | 6 Y 25 | 25≈32 | S 1 |
| S 2 | 14 40 26 | 11°42'43 | 16°52 | 0 Ⅱ 34 | 13°23 | 18°41 | 20°20 | 20 궁 25 | 23°58 | 22 ਰ 11 | 25°58 | 7 9 6 | 8°31 | 6°32 | 25°34 | S 2 |
| M 3 | 14 44 23 | 12°40'45 | 28°49 | 2° 8 | 14°37 | 18°43 | 20°32 | 20°25 | 23°59 | 22°11 | 25°59 | 6°56 | 8°28 | 6°39 | 25°35 | M 3 |
| T 4 | 14 48 19 | 13°38'46 | 10 8 52 | 3°38 | 15°51 | 18°46 | 20°43 | 20°24 | 24° 1 | 22°10 | 26° 0 | 6°46 | 8°24 | 6°46 | 25°37 | T 4 |
| W 5 | 14 52 16 | 14°36'46 | 23° 2 | 5° 3 | 17° 5 | 18°50 | 20°55 | 20°24 | 24° 2 | 22°10 | 26° 2 | 6°37 | 8°21 | 6°52 | 25°38 | W 5 |
| T 6 | 14 56 12 | 15°34'44 | 5 Ⅱ 21 | 6°26 | 18°19 | 18°54 | 21° 6 | 20°23 | 24° 3 | 22°10 | 26° 3 | 6°31 | 8°18 | 6°59 | 25°40 | T 6 |
| F 7 | 15 0 9 | 16°32'40 | 17°49 | 7°44 | 19°32 | 18°59 | 21°17 | 20°22 | 24° 4 | 22° 9 | 26° 4 | 6°27 | 8°15 | 7° 6 | 25°41 | F 7 |
| S 8 | 15 4 5 | 17°30'35 | 0ණ28 | 8°58 | 20°46 | 19° 5 | 21°28 | 20°22 | 24° 5 | 22° 9 | 26° 5 | 6°D25 | 8°12 | 7°12 | 25°43 | S 8 |
| S 9 | 15 8 2 | 18°28'28 | 13°20 | 10° 8 | 22° 0 | 19°11 | 21°39 | 20°21 | 24° 6 | 22° 8 | 26° 6 | 6°25 | 8° 8 | 7°19 | 25°44 | S 9 |
| M10 | 15 11 59 | 19°26'19 | 26°27 | 11°14 | 23°14 | 19°19 | 21°50 | 20°20 | 24° 7 | 22° 8 | 26° 7 | 6°26 | 8° 5 | 7°26 | 25°45 | M10 |
| T 11 | 15 15 55 | 20°24'08 | 9 Ω 51 | 12°16 | 24°28 | 19°27 | 22° 1 | 20°19 | 24° 8 | 22° 7 | 26° 9 | 6°27 | 8° 2 | 7°33 | 25°46 | T 11 |
| W12 | 15 19 52 | 21°21'56 | 23°34 | 13°13 | 25°42 | 19°35 | 22°11 | 20°18 | 24° 9 | 22° 7 | 26°10 | 6°R28 | 7°59 | 7°39 | 25°48 | W12 |
| T 13 | 15 23 48 | 22°19'41 | 7 m 37 | 14° 6 | 26°56 | 19°44 | 22°22 | 20°16 | 24°10 | 22° 6 | 26°11 | 6°27 | 7°56 | 7°46 | 25°49 | T 13 |
| F 14 | 15 27 45 | 23°17'26 | 22° 0 | 14°55 | 28° 9 | 19°54 | 22°32 | 20°15 | 24°10 | 22° 6 | 26°12 | 6°24 | 7°53 | 7°53 | 25°50 | F 14 |
| S 15 | 15 31 41 | 24°15'08 | 6 ₽ 39 | 15°39 | 29°23 | 20° 4 | 22°42 | 20°14 | 24°11 | 22° 5 | 26°13 | 6°19 | 7°49 | 7°59 | 25°51 | S 15 |
| S 16 | 15 35 38 | 25°12'49 | 21°29 | 16°19 | 0 П 37 | 20°15 | 22°53 | 20°12 | 24°12 | 22° 4 | 26°15 | 6°14 | 7°46 | 8° 6 | 25°51 | S 16 |
| M17 | 15 39 34 | 26°10'28 | 6ML23 | 16°54 | 1°51 | 20°27 | 23° 3 | 20°10 | 24°12 | 22° 4 | 26°16 | 6° 8 | 7°43 | 8°13 | 25°52 | M17 |
| T 18 | 15 43 31 | 27° 8'06 | 21°13 | 17°25 | 3° 4 | 20°39 | 23°13 | 20° 9 | 24°13 | 22° 3 | 26°17 | 6° 2 | 7°40 | 8°20 | 25°53 | T 18 |
| W19 | 15 47 28 | 28° 5'43 | 5 ₹ 50 | 17°51 | 4°18 | 20°52 | 23°23 | 20° 7 | 24°13 | 22° 2 | 26°19 | 5°58 | 7°37 | 8°26 | 25°54 | W19 |
| T 20 | 15 51 24 | 29° 3'18 | 2 <u>0°</u> 7 | 18°12 | 5°32 | 21° 5 | 23°32 | 20° 5 | 24°14 | 22° 1 | 26°20 | 5°55 | 7°33 | 8°33 | 25°54 | T 20 |
| F 21 | 15 55 21 | 0 Ⅱ 0'53 | 4 る 0 | 18°28 | 6°46 | 21°19 | 23°42 | 20° 3 | 24°14 | 22° 0 | 26°21 | 5°D54 | 7°30 | 8°40 | 25°55 | F 21 |
| S 22 | 15 59 17 | 0°58'26 | 17°28 | 18°40 | 7°59 | 21°33 | 23°52 | 20° 1 | 24°15 | 22° 0 | 26°23 | 5°55 | 7°27 | 8°47 | 25°56 | S 22 |
| S 23 | 16 3 14 | 1°55'59 | 0≈31 | 18°47 | 9°13 | 21°48 | 24° 1 | 19°59 | 24°15 | 21°59 | 26°24 | 5°56 | 7°24 | 8°53 | 25°56 | S 23 |
| M24 | 16 7 10 | 2°53'30 | 13°11 | 18°R49 | 10°27 | 22° 3 | 24°10 | 19°57 | 24°15 | 21°58 | 26°25 | 5°58 | 7°21 | 9° 0 | 25°56 | M24 |
| T 25 | 16 11 7 | 3°51'01 | 25°33 | 18°47 | 11°41 | 22°19 | 24°19 | 19°54 | 24°16 | 21°57 | 26°27 | 5°59 | 7°18 | 9° 7 | 25°57 | T 25 |
| W26 | 16 15 3 | 4°48'30 | 7) €40 | 18°40 | 12°54 | 22°35 | 24°28 | 19°52 | 24°16 | 21°56 | 26°28 | 5°R59 | 7°14 | 9°13 | 25°57 | W26 |
| T 27 | 16 19 0 | 5°45'59 | 19°38 | 18°29 | 14° 8 | 22°52 | 24°37 | 19°50 | 24°16 | 21°55 | 26°29 | 5°58 | 7°11 | 9°20 | 25°57 | T 27 |
| F 28 | 16 22 57 | 6°43'28 | 1 Y 31 | 18°14 | 15°22 | 23° 9 | 24°46 | 19°47 | 24°16 | 21°54 | 26°31 | 5°56 | 7° 8 | 9°27 | 25°57 | F 28 |
| S 29 | 16 26 53 | 7°40'55 | 13°23 | 17°56 | 16°35 | 23°27 | 24°55 | 19°44 | 24°R16 | 21°53 | 26°32 | 5°53 | 7° 5 | 9°34 | 25°57 | S 29 |
| S 30 | 16 30 50 | 8°38'21 | 25°19 | 17°33 | 17°49 | 23°45 | 25° 3 | 19°42 | 24°16 | 21°52 | 26°33 | 5°48 | 7° 2 | 9°40 | 25°R58 | S 30 |
| M31 | 16 34 46 | 9 Ⅱ 35'47 | 7 8 21 | 17耳 8 | 19耳 3 | 24M) 4 | 25 米 12 | 19 る 39 | 24≈16 | 21 궁 51 | 26耳35 | 59644 | 6959 | 9 Ƴ 47 | 25≈57 | M31 |

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|------|----------|-------------------|----------------|----------------|--------|---------------|-----------------|----------------|--------|----------------|----------------|-------|---------------|---------------|--------|------|
| T 1 | 16 38 43 | 10 Ⅲ 33'13 | 19832 | 16°R40 | 20∐16 | 24 Mp 23 | 25) (20 | 19°R36 | 24°R16 | 21°R50 | 26耳36 | 5°R40 | 6 9 55 | 9 Ƴ 54 | 25°R57 | T 1 |
| W 2 | 16 42 39 | 11°30'37 | 1 Ⅱ 53 | 16 Ⅱ 10 | 21°30 | 24°43 | 25°28 | 19 る 33 | 24≈16 | 21 궁 49 | 26°38 | 5936 | 6°52 | 10° 1 | 25≈57 | W 2 |
| T 3 | 16 46 36 | 12°28'01 | 14°26 | 15°38 | 22°43 | 25° 3 | 25°36 | 19°30 | 24°15 | 21°47 | 26°39 | 5°34 | 6°49 | 10° 7 | 25°57 | T 3 |
| F 4 | 16 50 32 | 13°25'23 | 27°12 | 15° 5 | 23°57 | 25°23 | 25°44 | 19°27 | 24°15 | 21°46 | 26°40 | 5°33 | 6°46 | 10°14 | 25°57 | F 4 |
| S 5 | 16 54 29 | 14°22'45 | 109911 | 14°32 | 25°11 | 25°44 | 25°51 | 19°24 | 24°15 | 21°45 | 26°42 | 5°D32 | 6°43 | 10°21 | 25°56 | S 5 |
| S 6 | 16 58 26 | 15°20'06 | 23°23 | 13°58 | 26°24 | 26° 5 | 25°59 | 19°21 | 24°14 | 21°44 | 26°43 | 5°33 | 6°39 | 10°27 | 25°56 | S 6 |
| M 7 | 17 2 22 | 16°17'27 | 6 Ω 48 | 13°25 | 27°38 | 26°27 | 26° 6 | 19°17 | 24°14 | 21°43 | 26°45 | 5°34 | 6°36 | 10°34 | 25°56 | M 7 |
| T 8 | 17 6 19 | 17°14'46 | 20°26 | 12°53 | 28°52 | 26°49 | 26°14 | 19°14 | 24°14 | 21°41 | 26°46 | 5°36 | 6°33 | 10°41 | 25°55 | T 8 |
| W 9 | 17 10 15 | 18°12'04 | 4 Mp 17 | 12°23 | 0ණ 5 | 27°11 | 26°21 | 19°11 | 24°13 | 21°40 | 26°48 | 5°37 | 6°30 | 10°48 | 25°54 | W 9 |
| T 10 | 17 14 12 | 19° 9'21 | 18°20 | 11°55 | 1°19 | 27°34 | 26°28 | 19° 7 | 24°12 | 21°39 | 26°49 | 5°R37 | 6°27 | 10°54 | 25°54 | T 10 |
| F 11 | 17 18 8 | 20° 6'38 | 2 ≏ 34 | 11°30 | 2°32 | 27°57 | 26°35 | 19° 4 | 24°12 | 21°38 | 26°50 | 5°37 | 6°24 | 11° 1 | 25°53 | F 11 |
| S 12 | 17 22 5 | 21° 3'53 | 16°56 | 11° 8 | 3°46 | 28°20 | 26°41 | 19° 0 | 24°11 | 21°36 | 26°52 | 5°36 | 6°20 | 11° 8 | 25°52 | S 12 |
| S 13 | 17 26 1 | 22° 1'08 | 1 M 23 | 10°49 | 4°59 | 28°44 | 26°48 | 18°56 | 24°11 | 21°35 | 26°53 | 5°34 | 6°17 | 11°14 | 25°52 | S 13 |
| M14 | 17 29 58 | 22°58'21 | 15°51 | 10°34 | 6°13 | 29° 8 | 26°54 | 18°53 | 24°10 | 21°34 | 26°55 | 5°33 | 6°14 | 11°21 | 25°51 | M14 |
| T 15 | 17 33 55 | 23°55'35 | 0 才 14 | 10°23 | 7°26 | 29°33 | 27° 0 | 18°49 | 24° 9 | 21°32 | 26°56 | 5°31 | 6°11 | 11°28 | 25°50 | T 15 |
| W16 | 17 37 51 | 24°52'47 | 14°27 | 10°16 | 8°40 | 29°57 | 27° 6 | 18°45 | 24° 8 | 21°31 | 26°58 | 5°30 | 6° 8 | 11°35 | 25°49 | W16 |
| T 17 | 17 41 48 | 25°50'00 | 28°26 | 10°D14 | 9°53 | 0 ₾ 23 | 27°12 | 18°41 | 24° 7 | 21°29 | 26°59 | 5°30 | 6° 5 | 11°41 | 25°48 | T 17 |
| F 18 | 17 45 44 | 26°47'12 | 12 る 6 | 10°17 | 11° 7 | 0°48 | 27°18 | 18°37 | 24° 6 | 21°28 | 27° 1 | 5°D30 | 6° 1 | 11°48 | 25°47 | F 18 |
| S 19 | 17 49 41 | 27°44'23 | 25°27 | 10°24 | 12°20 | 1°14 | 27°23 | 18°33 | 24° 5 | 21°27 | 27° 2 | 5°30 | 5°58 | 11°55 | 25°45 | S 19 |
| S 20 | 17 53 37 | 28°41'35 | 8 ≈ 27 | 10°36 | 13°34 | 1°40 | 27°29 | 18°30 | 24° 4 | 21°25 | 27° 4 | 5°31 | 5°55 | 12° 2 | 25°44 | S 20 |
| M21 | 17 57 34 | 29°38'46 | 21° 7 | 10°52 | 14°47 | 2° 6 | 27°34 | 18°25 | 24° 3 | 21°24 | 27° 5 | 5°32 | 5°52 | 12° 8 | 25°43 | M21 |
| T 22 | 18 131 | 0935'57 | 3 ∺ 30 | 11°14 | 16° 1 | 2°33 | 27°39 | 18°21 | 24° 2 | 21°22 | 27° 6 | 5°32 | 5°49 | 12°15 | 25°42 | T 22 |
| W23 | 18 5 27 | 1°33'08 | 15°40 | 11°40 | 17°14 | 3° 0 | 27°44 | 18°17 | 24° 1 | 21°21 | 27° 8 | 5°32 | 5°45 | 12°22 | 25°40 | W23 |
| T 24 | 18 9 24 | 2°30'20 | 27°40 | 12°11 | 18°28 | 3°27 | 27°48 | 18°13 | 24° 0 | 21°19 | 27° 9 | 5°R33 | 5°42 | 12°28 | 25°39 | T 24 |
| F 25 | 18 13 20 | 3°27'31 | 9 Υ 34 | 12°46 | 19°41 | 3°54 | 27°53 | 18° 9 | 23°59 | 21°18 | 27°11 | 5°33 | 5°39 | 12°35 | 25°37 | F 25 |
| S 26 | 18 17 17 | 4°24'42 | 21°28 | 13°26 | 20°54 | 4°22 | 27°57 | 18° 5 | 23°58 | 21°16 | 27°12 | 5°33 | 5°36 | 12°42 | 25°36 | S 26 |
| S 27 | 18 21 13 | 5°21'54 | 3 8 25 | 14°11 | 22° 8 | 4°50 | 28° 1 | 18° 1 | 23°56 | 21°15 | 27°14 | 5°D33 | 5°33 | 12°49 | 25°34 | S 27 |
| M28 | 18 25 10 | 6°19'06 | 15°30 | 15° 1 | 23°21 | 5°18 | 28° 5 | 17°56 | 23°55 | 21°13 | 27°15 | 5°33 | 5°30 | 12°55 | 25°33 | M28 |
| T 29 | 18 29 6 | 7°16'18 | 27°46 | 15°54 | 24°35 | 5°47 | 28° 9 | 17°52 | 23°54 | 21°11 | 27°17 | 5°33 | 5°26 | 13° 2 | 25°31 | T 29 |
| W30 | 18 33 3 | 8913'30 | 10 Ⅱ 17 | 16耳53 | 259648 | 6 ₽ 16 | 28 米 13 | 17 る 48 | 23≈52 | 21 궁 10 | 27 Ⅱ 18 | 5933 | 5923 | 13 Y 9 | 25≈29 | W30 |

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| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)f(| 并 | Р | ß | ದಿ | ţ | ę k | Day |
|------|----------|------------------|----------------|----------------|------------------|----------------|----------------|----------------|--------|--------|----------------|-------|-------|----------------|--------|------|
| T 1 | 18 37 0 | 99510'42 | 23耳 4 | 17 Ⅲ 55 | 2795 1 | 6 ₽ 45 | 28) 16 | 17°R43 | 23°R51 | 21°R 8 | 27 Ⅱ 19 | 5933 | 59520 | 13 Y 16 | 25°R27 | T 1 |
| F 2 | 18 40 56 | 10° 7'55 | 6 9 5 8 | 19° 2 | 28°15 | 7°14 | 28°20 | 17 云 39 | 23≈49 | 21중 7 | 27°21 | 5°R33 | 5°17 | 13°22 | 25≈25 | F 2 |
| S 3 | 18 44 53 | 11° 5'08 | 19°30 | 20°13 | 29°28 | 7°44 | 28°23 | 17°35 | 23°48 | 21° 5 | 27°22 | 5°33 | 5°14 | 13°29 | 25°24 | S 3 |
| S 4 | 18 48 49 | 12° 2'21 | 3 N 7 | 21°29 | 0Ω41 | 8°14 | 28°26 | 17°30 | 23°46 | 21° 4 | 27°24 | 5°33 | 5°11 | 13°36 | 25°22 | S 4 |
| M 5 | 18 52 46 | 12°59'34 | 16°57 | 22°48 | 1°55 | 8°44 | 28°28 | 17°26 | 23°45 | 21° 2 | 27°25 | 5°32 | 5° 7 | 13°42 | 25°20 | M 5 |
| T 6 | 18 56 42 | 13°56'46 | 0 m 59 | 24°12 | 3° 8 | 9°14 | 28°31 | 17°21 | 23°43 | 21° 0 | 27°26 | 5°31 | 5° 4 | 13°49 | 25°18 | T 6 |
| W 7 | 19 039 | 14°53'59 | 15° 8 | 25°39 | 4°21 | 9°45 | 28°33 | 17°17 | 23°41 | 20°59 | 27°28 | 5°30 | 5° 1 | 13°56 | 25°16 | W 7 |
| T 8 | 19 4 35 | 15°51'12 | 29°22 | 27°11 | 5°35 | 10°15 | 28°35 | 17°13 | 23°40 | 20°57 | 27°29 | 5°29 | 4°58 | 14° 3 | 25°13 | T 8 |
| F 9 | 19 8 32 | 16°48'25 | 13 ≏ 37 | 28°46 | 6°48 | 10°46 | 28°37 | 17° 8 | 23°38 | 20°56 | 27°31 | 5°D29 | 4°55 | 14° 9 | 25°11 | F 9 |
| S 10 | 19 12 29 | 17°45'37 | 27°51 | 0ණ25 | 8° 1 | 11°17 | 28°39 | 17° 4 | 23°36 | 20°54 | 27°32 | 5°29 | 4°51 | 14°16 | 25° 9 | S 10 |
| S 11 | 19 16 25 | 18°42'50 | 12 M 1 | 2° 7 | 9°15 | 11°49 | 28°40 | 16°59 | 23°34 | 20°52 | 27°33 | 5°30 | 4°48 | 14°23 | 25° 7 | S 11 |
| M12 | 19 20 22 | 19°40'03 | 26° 5 | 3°53 | 10°28 | 12°20 | 28°42 | 16°55 | 23°32 | 20°51 | 27°35 | 5°31 | 4°45 | 14°29 | 25° 4 | M12 |
| T 13 | 19 24 18 | 20°37'16 | 10 × 1 | 5°42 | 11°41 | 12°52 | 28°43 | 16°50 | 23°31 | 20°49 | 27°36 | 5°32 | 4°42 | 14°36 | 25° 2 | T 13 |
| W14 | 19 28 15 | 21°34'30 | 23°46 | 7°34 | 12°54 | 13°24 | 28°44 | 16°46 | 23°29 | 20°47 | 27°37 | 5°33 | 4°39 | 14°43 | 25° 0 | W14 |
| T 15 | 19 32 11 | 22°31'44 | 7 云 20 | 9°29 | 14° 7 | 13°57 | 28°45 | 16°42 | 23°27 | 20°46 | 27°39 | 5°R33 | 4°36 | 14°50 | 24°57 | T 15 |
| F 16 | 19 36 8 | 23°28'58 | 20°40 | 11°27 | 15°21 | 14°29 | 28°45 | 16°37 | 23°25 | 20°44 | 27°40 | 5°32 | 4°32 | 14°56 | 24°55 | F 16 |
| S 17 | 19 40 4 | 24°26'13 | 3≈45 | 13°27 | 16°34 | 15° 2 | 28°46 | 16°33 | 23°23 | 20°43 | 27°42 | 5°31 | 4°29 | 15° 3 | 24°52 | S 17 |
| S 18 | 19 44 1 | 25°23'29 | 16°34 | 15°28 | 17°47 | 15°34 | 28°R46 | 16°29 | 23°21 | 20°41 | 27°43 | 5°29 | 4°26 | 15°10 | 24°50 | S 18 |
| M19 | 19 47 58 | 26°20'45 | 29° 8 | 17°32 | 19° 0 | 16° 7 | 28°46 | 16°24 | 23°19 | 20°39 | 27°44 | 5°26 | 4°23 | 15°17 | 24°47 | M19 |
| T 20 | 19 51 54 | 27°18'02 | 11 米 28 | 19°36 | 20°13 | 16°40 | 28°46 | 16°20 | 23°17 | 20°38 | 27°45 | 5°22 | 4°20 | 15°23 | 24°45 | T 20 |
| W21 | 19 55 51 | 28°15'19 | 23°37 | 21°42 | 21°26 | 17°14 | 28°45 | 16°16 | 23°15 | 20°36 | 27°47 | 5°19 | 4°17 | 15°30 | 24°42 | W21 |
| T 22 | 19 59 47 | 29°12'38 | 5 Υ 36 | 23°48 | 22°39 | 17°47 | 28°45 | 16°11 | 23°13 | 20°34 | 27°48 | 5°16 | 4°13 | 15°37 | 24°39 | T 22 |
| F 23 | 20 3 44 | 0 ⋒ 9'57 | 17°30 | 25°54 | 23°53 | 18°21 | 28°44 | 16° 7 | 23°10 | 20°33 | 27°49 | 5°15 | 4°10 | 15°43 | 24°37 | F 23 |
| S 24 | 20 7 40 | 1° 7'18 | 29°23 | 28° 1 | 25° 6 | 18°55 | 28°43 | 16° 3 | 23° 8 | 20°31 | 27°50 | 5°D14 | 4° 7 | 15°50 | 24°34 | S 24 |
| S 25 | 20 11 37 | 2° 4'40 | 11820 | oΩ 7 | 26°19 | 19°29 | 28°42 | 15°59 | 23° 6 | 20°30 | 27°52 | 5°14 | 4° 4 | 15°57 | 24°31 | S 25 |
| M26 | 20 15 33 | 3° 2'03 | 23°25 | 2°13 | 27°32 | 20° 3 | 28°40 | 15°55 | 23° 4 | 20°28 | 27°53 | 5°15 | 4° 1 | 16° 4 | 24°28 | M26 |
| T 27 | 20 19 30 | 3°59'27 | 5 Ⅱ 43 | 4°18 | 28°45 | 20°38 | 28°39 | 15°51 | 23° 2 | 20°27 | 27°54 | 5°17 | 3°57 | 16°10 | 24°26 | T 27 |
| W28 | 20 23 27 | 4°56'52 | 18°18 | 6°23 | 29°58 | 21°12 | 28°37 | 15°47 | 23° 0 | 20°25 | 27°55 | 5°19 | 3°54 | 16°17 | 24°23 | W28 |
| T 29 | 20 27 23 | 5°54'18 | 19514 | 8°26 | 1 M p 1 1 | 21°47 | 28°35 | 15°42 | 22°57 | 20°23 | 27°57 | 5°R19 | 3°51 | 16°24 | 24°20 | T 29 |
| F 30 | 20 31 20 | 6°51'46 | 14°32 | 10°29 | 2°24 | 22°22 | 28°33 | 15°39 | 22°55 | 20°22 | 27°58 | 5°19 | 3°48 | 16°30 | 24°17 | F 30 |
| S 31 | 20 35 16 | 7 Ω 49'14 | 289512 | 12 Ω 30 | 3 m 37 | 22 ≙ 57 | 28 米 31 | 15 る 35 | 22≈53 | 20중20 | 27 Ⅱ 59 | 59917 | 39945 | 16 Ƴ 37 | 24≈14 | S 31 |

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Greg. Calendar

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| Day | Sid.t | 0 | D | Σ + | Q | ♂ | 4 | ħ | ᡟ | ¥ | Р | Ç | ී | Ç | ę, | Day |
|------|----------|------------------|----------------|----------------|---------------|-----------------|----------------|----------------|--------|----------------|----------------|-------|----------|----------------|--------|------|
| S 1 | 20 39 13 | 8 Ω 46'44 | 12 Ω 13 | 14 Ω 29 | 4 Mp 50 | 23 <u>~</u> 32 | 28°R28 | 15°R31 | 22°R51 | 20°R19 | 28耳 0 | 5°R14 | 39542 | 16 Y 44 | 24°R11 | S 1 |
| M 2 | 20 43 9 | 9°44'14 | 26°31 | 16°28 | 6° 2 | 24° 8 | 28) 25 | 15 云 27 | 22≈48 | 20 궁 17 | 28° 1 | 59910 | 3°38 | 16°51 | 24≈ 8 | M 2 |
| T 3 | 20 47 6 | 10°41'46 | 11 Mp 0 | 18°25 | 7°15 | 24°44 | 28°22 | 15°23 | 22°46 | 20°16 | 28° 2 | 5° 4 | 3°35 | 16°57 | 24° 5 | T 3 |
| W 4 | 20 51 2 | 11°39'18 | 25°35 | 20°20 | 8°28 | 25°19 | 28°19 | 15°19 | 22°44 | 20°14 | 28° 3 | 4°59 | 3°32 | 17° 4 | 24° 3 | W 4 |
| T 5 | 20 54 59 | 12°36'51 | 10 요 8 | 22°14 | 9°41 | 25°55 | 28°16 | 15°16 | 22°41 | 20°13 | 28° 5 | 4°55 | 3°29 | 17°11 | 24° 0 | T 5 |
| F 6 | 20 58 56 | 13°34'25 | 24°35 | 24° 7 | 10°54 | 26°31 | 28°12 | 15°12 | 22°39 | 20°11 | 28° 6 | 4°52 | 3°26 | 17°18 | 23°57 | F 6 |
| S 7 | 21 2 52 | 14°32'00 | 8 M .51 | 25°58 | 12° 7 | 27° 7 | 28° 9 | 15° 8 | 22°37 | 20°10 | 28° 7 | 4°D50 | 3°23 | 17°24 | 23°54 | S 7 |
| S 8 | 21 6 49 | 15°29'36 | 22°54 | 27°47 | 13°20 | 27°44 | 28° 5 | 15° 5 | 22°34 | 20° 9 | 28° 8 | 4°51 | 3°19 | 17°31 | 23°51 | S 8 |
| M 9 | 21 10 45 | 16°27'13 | 6 ₮ 43 | 29°35 | 14°32 | 28°20 | 28° 1 | 15° 1 | 22°32 | 20° 7 | 28° 9 | 4°52 | 3°16 | 17°38 | 23°47 | M 9 |
| T 10 | 21 14 42 | 17°24'51 | 20°18 | 1 m 22 | 15°45 | 28°57 | 27°57 | 14°58 | 22°29 | 20° 6 | 28°10 | 4°53 | 3°13 | 17°44 | 23°44 | T 10 |
| W11 | 21 18 38 | 18°22'30 | 3 る 40 | 3° 7 | 16°58 | 29°34 | 27°52 | 14°55 | 22°27 | 20° 4 | 28°11 | 4°R54 | 3°10 | 17°51 | 23°41 | W11 |
| T 12 | 21 22 35 | 19°20'10 | 16°49 | 4°50 | 18°10 | 0 M .11 | 27°48 | 14°52 | 22°25 | 20° 3 | 28°12 | 4°53 | 3° 7 | 17°58 | 23°38 | T 12 |
| F 13 | 21 26 31 | 20°17'51 | 29°47 | 6°32 | 19°23 | 0°48 | 27°43 | 14°48 | 22°22 | 20° 2 | 28°13 | 4°50 | 3° 3 | 18° 5 | 23°35 | F 13 |
| S 14 | 21 30 28 | 21°15'34 | 12≈33 | 8°13 | 20°36 | 1°25 | 27°38 | 14°45 | 22°20 | 20° 0 | 28°14 | 4°46 | 3° 0 | 18°11 | 23°32 | S 14 |
| S 15 | 21 34 25 | 22°13'18 | 25° 7 | 9°52 | 21°48 | 2° 2 | 27°33 | 14°42 | 22°17 | 19°59 | 28°15 | 4°39 | 2°57 | 18°18 | 23°29 | S 15 |
| M16 | 21 38 21 | 23°11'03 | 7 ∺ 31 | 11°30 | 23° 1 | 2°40 | 27°28 | 14°39 | 22°15 | 19°58 | 28°16 | 4°31 | 2°54 | 18°25 | 23°26 | M16 |
| T 17 | 21 42 18 | 24° 8'49 | 19°44 | 13° 7 | 24°14 | 3°18 | 27°22 | 14°36 | 22°13 | 19°56 | 28°17 | 4°21 | 2°51 | 18°31 | 23°23 | T 17 |
| W18 | 21 46 14 | 25° 6'37 | 1 Υ 47 | 14°42 | 25°26 | 3°55 | 27°17 | 14°33 | 22°10 | 19°55 | 28°17 | 4°12 | 2°48 | 18°38 | 23°20 | W18 |
| T 19 | 21 50 11 | 26° 4'27 | 13°44 | 16°15 | 26°39 | 4°33 | 27°11 | 14°31 | 22° 8 | 19°54 | 28°18 | 4° 4 | 2°44 | 18°45 | 23°17 | T 19 |
| F 20 | 21 54 7 | 27° 2'19 | 25°36 | 17°48 | 27°51 | 5°11 | 27° 5 | 14°28 | 22° 6 | 19°53 | 28°19 | 3°58 | 2°41 | 18°52 | 23°14 | F 20 |
| S 21 | 21 58 4 | 28° 0'12 | 7 8 28 | 19°18 | 29° 3 | 5°49 | 26°59 | 14°25 | 22° 3 | 19°51 | 28°20 | 3°53 | 2°38 | 18°58 | 23°11 | S 21 |
| S 22 | 22 2 0 | 28°58'07 | 19°22 | 20°48 | 0 ჲ 16 | 6°28 | 26°53 | 14°23 | 22° 1 | 19°50 | 28°21 | 3°51 | 2°35 | 19° 5 | 23° 8 | S 22 |
| M23 | 22 5 57 | 29°56'04 | 1 Ⅱ 25 | 22°16 | 1°28 | 7° 6 | 26°47 | 14°20 | 21°58 | 19°49 | 28°22 | 3°D50 | 2°32 | 19°12 | 23° 5 | M23 |
| T 24 | 22 9 54 | 0 m 54'03 | 13°41 | 23°43 | 2°41 | 7°45 | 26°41 | 14°18 | 21°56 | 19°48 | 28°22 | 3°51 | 2°29 | 19°18 | 23° 2 | T 24 |
| W25 | 22 13 50 | 1°52'04 | 26°14 | 25° 8 | 3°53 | 8°23 | 26°34 | 14°16 | 21°54 | 19°47 | 28°23 | 3°52 | 2°25 | 19°25 | 22°59 | W25 |
| T 26 | 22 17 47 | 2°50'06 | 9 9 11 | 26°32 | 5° 5 | 9° 2 | 26°28 | 14°14 | 21°51 | 19°46 | 28°24 | 3°R52 | 2°22 | 19°32 | 22°56 | T 26 |
| F 27 | 22 21 43 | 3°48'11 | 22°34 | 27°54 | 6°18 | 9°41 | 26°21 | 14°12 | 21°49 | 19°45 | 28°25 | 3°50 | 2°19 | 19°39 | 22°53 | F 27 |
| S 28 | 22 25 40 | 4°46'17 | 6 Ω 24 | 29°15 | 7°30 | 10°20 | 26°14 | 14°10 | 21°47 | 19°44 | 28°25 | 3°46 | 2°16 | 19°45 | 22°50 | S 28 |
| S 29 | 22 29 36 | 5°44'26 | 20°40 | 0 ჲ 34 | 8°42 | 10°59 | 26° 7 | 14° 8 | 21°44 | 19°43 | 28°26 | 3°40 | 2°13 | 19°52 | 22°47 | S 29 |
| M30 | 22 33 33 | 6°42'36 | 5 m 19 | 1°52 | 9°54 | 11°38 | 26° 0 | 14° 6 | 21°42 | 19°42 | 28°27 | 3°32 | 2° 9 | 19°59 | 22°44 | M30 |
| T 31 | 22 37 29 | 7 m 40'47 | 20 Mp 12 | 3 ₾ 8 | 11 º 6 | 12 M .18 | 25 米 53 | 14궁 4 | 21≈40 | 19 る 41 | 28 Ⅲ 27 | 39522 | 299 6 | 20 Y 5 | 22≈41 | T 31 |

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SEPTEMBER 1666 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q. | δ | 4 | ħ |)f(| 并 | Р | ß | ß | Ç | ę k | Day |
|--------------|----------------------|----------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|----------------|----------------|-------------|
| W 1 | 22 41 26 | 8 m 39'01 | 5 ₽ 12 | 4 ≏ 22 | 12 ≏ 19 | 12 M 57 | 25°R46 | 14°R 2 | 21°R38 | 19°R40 | 28Ⅲ28 | 3°R13 | 299 3 | 20 Υ 12 | 22°R38 | W 1 |
| T 2 | 22 45 23 | 9°37'16 | 20° 9 | 5°35 | 13°31 | 13°37 | 25 米 38 | 14궁 1 | 21≈35 | 19 る 39 | 28°28 | 399 4 | 2° 0 | 20°19 | 22≈35 | T 2 |
| F 3 | 22 49 19 | 10°35'32 | 4M.54 | 6°45 | 14°43 | 14°17 | 25°31 | 13°59 | 21°33 | 19°38 | 28°29 | 2°58 | 1°57 | 20°26 | 22°32 | F 3 |
| S 4 | 22 53 16 | 11°33'50 | 19°22 | 7°54 | 15°55 | 14°57 | 25°23 | 13°58 | 21°31 | 19°37 | 28°30 | 2°53 | 1°54 | 20°32 | 22°29 | S 4 |
| S 5 | 22 57 12 | 12°32'10 | 3 ₹ 29 | 9° 1 | 17° 7 | 15°37 | 25°16 | 13°57 | 21°29 | 19°36 | 28°30 | 2°52 | 1°50 | 20°39 | 22°27 | S 5 |
| M 6 | 23 1 9 | 13°30'31 | 1 <u>7</u> °14 | 10° 5 | 18°19 | 16°17 | 25° 8 | 13°55 | 21°27 | 19°36 | 28°31 | 2°D51 | 1°47 | 20°46 | 22°24 | M 6 |
| T 7 | 23 5 5 | 14°28'54 | 0 궁 39 | 11° 8 | 19°31 | 16°57 | 25° 0 | 13°54 | 21°24 | 19°35 | 28°31 | 2°R52 | 1°44 | 20°52 | 22°21 | T 7 |
| W 8 | 23 9 2 | 15°27'18 | 13°47 | 12° 7 | 20°42 | 17°37 | 24°52 | 13°53 | 21°22 | 19°34 | 28°32 | 2°51 | 1°41 | 20°59 | 22°18 | W 8 |
| T 9 | 23 12 58 | 16°25'44 | 26°39 | 13° 4 | 21°54 23° 6 | 18°18 | 24°45 | 13°52 | 21°20 | 19°33 | 28°32 | 2°49 | 1°38 | 21° 6 | 22°16 | T 9 F 10 |
| F 10 S 11 | 23 16 55 23 20 52 | 17°24'12 18°22'41 | 9 ≈ 18 21°47 | 13°59 14°50 | 23° 6 24°18 | 18°58 19°39 | 24°37 24°29 | 13°52 13°51 | 21°18 21°16 | 19°33 19°32 | 28°32 28°33 | 2°44 2°37 | 1°34 1°31 | 21°13 21°19 | 22°13 22°10 | S 11 |
| | | | | | _ | | | | | | | | | - | _ | |
| S 12 | 23 24 48 | 19°21'13 | 4) € 6 | 15°38 | 25°30 | 20°20 | 24°21 | 13°50 | 21°14 | 19°31 | 28°33 | 2°26 | 1°28 | 21°26 | 22° 8 | S 12 |
| M13 | 23 28 45 | 20°19'45 | 16°18 | 16°23 | 26°41 | 21° 1 | 24°13 | 13°50 | 21°12 | 19°31 | 28°34 | 2°14 | 1°25 | 21°33 | 22° 5 | M13 |
| T 14 W15 | 23 32 41 23 36 38 | 21°18'20 22°16'57 | 28°22 10 Y 20 | 17° 4 17°40 | 27°53 29° 4 | 21°42 22°23 | 24° 5 23°57 | 13°49 13°49 | 21°10 21° 8 | 19°30 19°30 | 28°34 28°34 | 2° 0 1°46 | 1°22 1°19 | 21°39 21°46 | 22° 3 22° 0 | T 14 W15 |
| T 16 | 23 40 34 | 23°15'36 | 22°14 | 17°40 18°13 | 0 M -16 | 22°23 23° 4 | 23°49 | 13°49 13°49 | 21° 8 | 19°30 | 28°35 | 1°34 | 1°19 | 21°53 | 21°58 | T 16 |
| F 17 | 23 44 31 | 24°14'17 | 48 4 | 18°41 | 1°27 | 23°45 | 23°41 | 13°49 | 21° 4 | 19°29 | 28°35 | 1°23 | 1°12 | 21° 33 | 21°55 | F 17 |
| S 18 | 23 48 27 | 25°13'00 | 15°55 | 19° 4 | 2°39 | 24°27 | 23°33 | 13°D49 | 21° 3 | 19°28 | 28°35 | 1°15 | 1° 9 | 22° 6 | 21°53 | S 18 |
| S 19 | 23 52 24 | 26°11'45 | 27°48 | 19°21 | 3°50 | 25° 8 | 23°25 | 13°49 | 21° 1 | 19°28 | 28°35 | 1°10 | 1° 6 | 22°13 | 21°50 | S 19 |
| M20 | 23 52 24 23 56 20 | 26°11'43 27°10'33 | 27°48 9 ∏ 49 | 19°21 | 5° 2 | 25° 50 | 23°23 23°17 | 13°49 13°49 | 20°59 | 19°28 | 28°36 | 1° 10 | 1° 3 | 22°13 | 21°48 | M20 |
| T 21 | 0 0 17 | 28° 9'23 | 22° 1 | 19°R38 | 6°13 | 26°31 | 23° 9 | 13°49 | 20°57 | 19°27 | 28°36 | 1° 7 | 1° 0 | 22°26 | 21°46 | T 21 |
| W22 | 0 4 14 | 29° 8'15 | 4931 | 19°37 | 7°24 | 27°13 | 23° 1 | 13°49 | 20°55 | 19°27 | 28°36 | 1° 7 | 0°56 | 22°33 | 21°44 | W22 |
| T 23 | 0 8 10 | 0요 7'10 | 17°23 | 19°29 | 8°35 | 27°55 | 22°53 | 13°50 | 20°54 | 19°27 | 28°36 | 1° 6 | 0°53 | 22°40 | 21°41 | T 23 |
| F 24 | 0 12 7 | 1° 6'07 | 0 Ω 42 | 19°13 | 9°46 | 28°37 | 22°45 | 13°50 | 20°52 | 19°26 | 28°36 | 1° 4 | 0°50 | 22°47 | 21°39 | F 24 |
| S 25 | 0 16 3 | 2° 5'06 | 14°30 | 18°50 | 10°58 | 29°19 | 22°37 | 13°51 | 20°50 | 19°26 | 28°36 | 1° 0 | 0°47 | 22°53 | 21°37 | S 25 |
| S 26 | 0 20 0 | 3° 4'07 | 28°48 | 18°20 | 12° 9 | 0 √ 1 | 22°30 | 13°52 | 20°49 | 19°26 | 28°36 | 0°53 | 0°44 | 23° 0 | 21°35 | S 26 |
| M27 | 0 23 56 | 4° 3'11 | 13 m 33 | 17°42 | 13°20 | 0°43 | 22°22 | 13°53 | 20°47 | 19°26 | 28°36 | 0°43 | 0°40 | 23° 7 | 21°33 | M27 |
| T 28 | 0 27 53 | 5° 2'17 | 28°38 | 16°56 | 14°31 | 1°26 | 22°14 | 13°54 | 20°46 | 19°26 | 28°R36 | 0°32 | 0°37 | 23°13 | 21°31 | T 28 |
| W29 | 0 31 49 | 6° 1'24 | 13 ≏ 54 | 16° 3 | 15°42 | 2° 8 | 22° 7 | 13°55 | 20°44 | 19°26 | 28°36 | 0°21 | 0°34 | 23°20 | 21°29 | W29 |
| T 30 | 0 35 46 | 7 ♀ 0'34 | 29 ₽ 10 | 15 ♀ 5 | 16ML52 | 2 × 751 | 21 米 59 | 13 る 56 | 20≈43 | 19 る 25 | 28耳36 | 0910 | 0931 | 23 Y 27 | 21≈27 | T 30 |

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Greg. Calendar

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| Day | Sid.t | \odot | D | φ | φ | o ⁷ | 4 | ħ |)∦(| ¥ | P . | ß | Ω | ţ | g | Day |
|------|---------|------------------|-----------------|----------------|-----------------|----------------|----------------|----------------|--------|----------------|--------|--------|-----------------|----------------|--------|------|
| F 1 | 0 39 43 | 7 ≏ 59'46 | 14 M .13 | 14°R 1 | 18 M 3 | 3 , ₹33 | 21°R52 | 13 る 57 | 20°R42 | 19°D25 | 28°R36 | 0°R 2 | 0928 | 23Υ34 | 21°R26 | F 1 |
| S 2 | 0 43 39 | 8°59'00 | 28°57 | 12 ≏ 53 | 19°14 | 4°16 | 21) 44 | 13°58 | 20≈40 | 19 る 25 | 28∏36 | 29∏57 | 0°25 | 23°40 | 21≈24 | S 2 |
| S 3 | 0 47 36 | 9°58'15 | 13 × 16 | 11°42 | 20°25 | 4°59 | 21°37 | 14° 0 | 20°39 | 19°25 | 28°36 | 29°54 | 0°21 | 23°47 | 21°22 | S 3 |
| M 4 | 0 51 32 | 10°57'33 | 27° 8 | 10°31 | 21°35 | 5°42 | 21°30 | 14° 1 | 20°38 | 19°26 | 28°36 | 29°D53 | 0°18 | 23°54 | 21°20 | M 4 |
| T 5 | 0 55 29 | 11°56'52 | 10 ට 35 | 9°22 | 22°46 | 6°25 | 21°23 | 14° 3 | 20°36 | 19°26 | 28°36 | 29°R54 | 0°15 | 24° 0 | 21°19 | T 5 |
| W 6 | 0 59 25 | 12°56'13 | 23°38 | 8°16 | 23°56 | 7° 8 | 21°16 | 14° 5 | 20°35 | 19°26 | 28°36 | 29°53 | 0°12 | 24° 7 | 21°17 | W 6 |
| T 7 | 1 3 22 | 13°55'35 | 6≈23 | 7°15 | 25° 7 | 7°51 | 21° 9 | 14° 7 | 20°34 | 19°26 | 28°36 | 29°51 | 0° 9 | 24°14 | 21°16 | T 7 |
| F 8 | 1 7 18 | 14°55'00 | 18°52 | 6°21 | 26°17 | 8°34 | 21° 2 | 14° 9 | 20°33 | 19°26 | 28°35 | 29°47 | 0° 6 | 24°21 | 21°14 | F 8 |
| S 9 | 1 11 15 | 15°54'26 | 1 ∺ 9 | 5°36 | 27°27 | 9°18 | 20°56 | 14°11 | 20°32 | 19°26 | 28°35 | 29°40 | 0° 2 | 24°27 | 21°13 | S 9 |
| S 10 | 1 15 12 | 16°53'54 | 13°17 | 5° 0 | 28°38 | 10° 1 | 20°49 | 14°13 | 20°31 | 19°27 | 28°35 | 29°30 | 29П59 | 24°34 | 21°12 | S 10 |
| M11 | 1 19 8 | 17°53'24 | 25°19 | 4°35 | 29°48 | 10°45 | 20°43 | 14°15 | 20°30 | 19°27 | 28°35 | 29°18 | 29°56 | 24°41 | 21°10 | M11 |
| T 12 | 1 23 5 | 18°52'55 | 7 Υ 16 | 4°21 | 0 ∡ 758 | 11°28 | 20°37 | 14°17 | 20°29 | 19°27 | 28°34 | 29° 4 | 29°53 | 24°47 | 21° 9 | T 12 |
| W13 | 1 27 1 | 19°52'29 | 19° 9 | 4°D18 | 2° 8 | 12°12 | 20°31 | 14°20 | 20°28 | 19°28 | 28°34 | 28°51 | 29°50 | 24°54 | 21° 8 | W13 |
| T 14 | 1 30 58 | 20°52'05 | 18 1 | 4°26 | 3°18 | 12°55 | 20°25 | 14°22 | 20°27 | 19°28 | 28°34 | 28°39 | 29°46 | 25° 1 | 21° 7 | T 14 |
| F 15 | 1 34 54 | 21°51'43 | 12°52 | 4°45 | 4°27 | 13°39 | 20°19 | 14°25 | 20°27 | 19°29 | 28°33 | 28°28 | 29°43 | 25° 8 | 21° 6 | F 15 |
| S 16 | 1 38 51 | 22°51'23 | 24°45 | 5°14 | 5°37 | 14°23 | 20°14 | 14°27 | 20°26 | 19°29 | 28°33 | 28°21 | 29°40 | 25°14 | 21° 5 | S 16 |
| S 17 | 1 42 47 | 23°51'05 | 6 Ⅱ 41 | 5°52 | 6°47 | 15° 7 | 20° 8 | 14°30 | 20°25 | 19°30 | 28°32 | 28°16 | 29°37 | 25°21 | 21° 4 | S 17 |
| M18 | 1 46 44 | 24°50'50 | 18°45 | 6°39 | 7°56 | 15°51 | 20° 3 | 14°33 | 20°25 | 19°30 | 28°32 | 28°13 | 29°34 | 25°28 | 21° 3 | M18 |
| T 19 | 1 50 41 | 25°50'36 | ०७५८ | 7°33 | 9° 6 | 16°35 | 19°58 | 14°36 | 20°24 | 19°31 | 28°32 | 28°D13 | 29°31 | 25°34 | 21° 2 | T 19 |
| W20 | 1 54 37 | 26°50'25 | 13°27 | 8°34 | 10°15 | 17°19 | 19°53 | 14°39 | 20°23 | 19°31 | 28°31 | 28°14 | 29°27 | 25°41 | 21° 2 | W20 |
| T 21 | 1 58 34 | 27°50'16 | 26°15 | 9°42 | 11°24 | 18° 4 | 19°48 | 14°42 | 20°23 | 19°32 | 28°31 | 28°R14 | 29°24 | 25°48 | 21° 1 | T 21 |
| F 22 | 2 2 30 | 28°50'10 | 9 Ω 27 | 10°54 | 12°33 | 18°48 | 19°44 | 14°45 | 20°22 | 19°33 | 28°30 | 28°14 | 29°21 | 25°54 | 21° 0 | F 22 |
| S 23 | 2 6 27 | 29°50'05 | 23° 6 | 12°11 | 13°43 | 19°32 | 19°39 | 14°49 | 20°22 | 19°33 | 28°30 | 28°11 | 29°18 | 26° 1 | 21° 0 | S 23 |
| S 24 | 2 10 23 | 0ML50'03 | 7 m) 14 | 13°32 | 14°52 | 20°17 | 19°35 | 14°52 | 20°22 | 19°34 | 28°29 | 28° 6 | 29°15 | 26° 8 | 20°59 | S 24 |
| M25 | 2 14 20 | 1°50'03 | 21°50 | 14°57 | 16° 0 | 21° 1 | 19°31 | 14°56 | 20°21 | 19°35 | 28°29 | 28° 0 | 29°11 | 26°15 | 20°59 | M25 |
| T 26 | 2 18 16 | 2°50'05 | 6 ₽ 49 | 16°24 | 17° 9 | 21°46 | 19°27 | 14°59 | 20°21 | 19°36 | 28°28 | 27°51 | 29° 8 | 26°21 | 20°59 | T 26 |
| W27 | 2 22 13 | 3°50'09 | 22° 4 | 17°53 | 18°18 | 22°31 | 19°23 | 15° 3 | 20°21 | 19°37 | 28°27 | 27°43 | 29° 5 | 26°28 | 20°58 | W27 |
| T 28 | 2 26 9 | 4°50'15 | 7 M 22 | 19°24 | 19°26 | 23°16 | 19°20 | 15° 6 | 20°21 | 19°38 | 28°27 | 27°35 | 29° 2 | 26°35 | 20°58 | T 28 |
| F 29 | 2 30 6 | 5°50'23 | 22°34 | 20°57 | 20°35 | 24° 0 | 19°17 | 15°10 | 20°21 | 19°38 | 28°26 | 27°29 | 28°59 | 26°41 | 20°58 | F 29 |
| S 30 | 2 34 3 | 6°50'33 | 7 ∡ 30 | 22°31 | 21°43 | 24°45 | 19°14 | 15°14 | 20°D21 | 19°39 | 28°25 | 27°25 | 28°56 | 26°48 | 20°58 | S 30 |
| S 31 | 2 37 59 | 7 M 50'44 | 22 ×7 1 | 24 ♀ 6 | 22 × 751 | 25 × 30 | 19 米 11 | 15 ට 18 | 20≈21 | 19 る 40 | 28∏25 | 27°D23 | 28 II 52 | 26 Y 55 | 20°D58 | S 31 |

Delta T = 31.85 sec

NOVEMBER 1666 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | Ŷ | ð | 4 | ħ |)∤(| ¥ | Р | ß | v | ţ | ę, | Day |
|------|---------|-----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|-------|----------------|-----------------|--------|----------------|---------------|-------|------|
| M 1 | 2 41 56 | 8ML50'57 | 6 වි | 25 ₽ 41 | 23 × 759 | 26 × 15 | 19°R 8 | 15 る 22 | 20≈21 | 19 る 41 | 28°R24 | 27Ⅲ23 | 28∏49 | 27 Y 2 | 20≈58 | M 1 |
| T 2 | 2 45 52 | 9°51'12 | 19°40 | 27°18 | 25° 7 | 27° 0 | 19 米 5 | 15°26 | 20°21 | 19°42 | 28Ⅲ23 | 27°24 | 28°46 | 27° 8 | 20°58 | T 2 |
| W 3 | 2 49 49 | 10°51'28 | 2≈49 | 28°54 | 26°15 | 27°46 | 19° 3 | 15°31 | 20°21 | 19°43 | 28°22 | 27°25 | 28°43 | 27°15 | 20°58 | W 3 |
| T 4 | 2 53 45 | 11°51'46 | 15°35 | 0 M .31 | 27°22 | 28°31 | 19° 1 | 15°35 | 20°21 | 19°45 | 28°22 | 27°R26 | 28°40 | 27°22 | 20°58 | T 4 |
| F 5 | 2 57 42 | 12°52'05 | 28° 3 | 2° 8 | 28°30 | 29°16 | 18°59 | 15°39 | 20°22 | 19°46 | 28°21 | 27°24 | 28°37 | 27°28 | 20°59 | F 5 |
| S 6 | 3 1 39 | 13°52'25 | 10 米 16 | 3°45 | 29°37 | 0중 1 | 18°57 | 15°44 | 20°22 | 19°47 | 28°20 | 27°21 | 28°33 | 27°35 | 20°59 | S 6 |
| S 7 | 3 5 35 | 14°52'47 | 22°18 | 5°22 | 0 궁 44 | 0°47 | 18°56 | 15°48 | 20°22 | 19°48 | 28°19 | 27°16 | 28°30 | 27°42 | 20°59 | S 7 |
| M 8 | 3 9 32 | 15°53'10 | 4Υ 15 | 6°59 | 1°51 | 1°32 | 18°55 | 15°53 | 20°23 | 19°49 | 28°19 | 27° 9 | 28°27 | 27°48 | 21° 0 | M 8 |
| T 9 | 3 13 28 | 16°53'34 | 16° 7 | 8°36 | 2°58 | 2°18 | 18°54 | 15°57 | 20°23 | 19°50 | 28°18 | 27° 1 | 28°24 | 27°55 | 21° 0 | T 9 |
| W10 | 3 17 25 | 17°54'01 | 27°58 | 10°13 | 4° 4 | 3° 3 | 18°53 | 16° 2 | 20°24 | 19°52 | 28°17 | 26°53 | 28°21 | 28° 2 | 21° 1 | W10 |
| T 11 | 3 21 21 | 18°54'28 | 9851 | 11°49 | 5°10 | 3°49 | 18°52 | 16° 7 | 20°24 | 19°53 | 28°16 | 26°46 | 28°17 | 28° 9 | 21° 2 | T 11 |
| F 12 | 3 25 18 | 19°54'58 | 21°46 | 13°26 | 6°16 | 4°35 | 18°52 | 16°12 | 20°25 | 19°54 | 28°15 | 26°40 | 28°14 | 28°15 | 21° 2 | F 12 |
| S 13 | 3 29 14 | 20°55'29 | 3 Ⅱ 45 | 15° 2 | 7°22 | 5°20 | 18°51 | 16°17 | 20°26 | 19°56 | 28°14 | 26°36 | 28°11 | 28°22 | 21° 3 | S 13 |
| S 14 | 3 33 11 | 21°56'01 | 15°50 | 16°38 | 8°28 | 6° 6 | 18°D51 | 16°22 | 20°26 | 19°57 | 28°13 | 26°33 | 28° 8 | 28°29 | 21° 4 | S 14 |
| M15 | 3 37 7 | 22°56'35 | 28° 3 | 18°14 | 9°34 | 6°52 | 18°51 | 16°27 | 20°27 | 19°59 | 28°12 | 26°D33 | 28° 5 | 28°35 | 21° 5 | M15 |
| T 16 | 3 41 4 | 23°57'11 | 109527 | 19°50 | 10°39 | 7°38 | 18°52 | 16°32 | 20°28 | 20° 0 | 28°11 | 26°34 | 28° 2 | 28°42 | 21° 6 | T 16 |
| W17 | 3 45 1 | 24°57'49 | 23° 3 | 21°25 | 11°44 | 8°24 | 18°52 | 16°37 | 20°29 | 20° 1 | 28°10 | 26°35 | 27°58 | 28°49 | 21° 7 | W17 |
| T 18 | 3 48 57 | 25°58'28 | 5€55 | 23° 0 | 12°49 | 9°10 | 18°53 | 16°43 | 20°30 | 20° 3 | 28° 9 | 26°37 | 27°55 | 28°56 | 21° 8 | T 18 |
| F 19 | 3 52 54 | 26°59'09 | 19° 6 | 24°35 | 13°53 | 9°56 | 18°54 | 16°48 | 20°31 | 20° 4 | 28° 8 | 26°38 | 27°52 | 29° 2 | 21° 9 | F 19 |
| S 20 | 3 56 50 | 27°59'51 | 2 Mp 39 | 26°10 | 14°57 | 10°42 | 18°55 | 16°53 | 20°32 | 20° 6 | 28° 7 | 26°R38 | 27°49 | 29° 9 | 21°10 | S 20 |
| S 21 | 4 0 47 | 29° 0'35 | 16°34 | 27°45 | 16° 1 | 11°28 | 18°57 | 16°59 | 20°33 | 20° 8 | 28° 6 | 26°37 | 27°46 | 29°16 | 21°12 | S 21 |
| M22 | 4 4 43 | 0 才 1'21 | 0 ჲ 53 | 29°20 | 17° 5 | 12°14 | 18°58 | 17° 4 | 20°34 | 20° 9 | 28° 5 | 26°35 | 27°43 | 29°22 | 21°13 | M22 |
| T 23 | 4 8 40 | 1° 2'08 | 15°33 | 0 才 54 | 18° 9 | 13° 0 | 19° 0 | 17°10 | 20°35 | 20°11 | 28° 4 | 26°32 | 27°39 | 29°29 | 21°14 | T 23 |
| W24 | 4 12 36 | 2° 2'57 | 0 M 28 | 2°29 | 19°12 | 13°47 | 19° 2 | 17°15 | 20°36 | 20°12 | 28° 3 | 26°28 | 27°36 | 29°36 | 21°16 | W24 |
| T 25 | 4 16 33 | 3° 3'47 | 15°31 | 4° 3 | 20°15 | 14°33 | 19° 4 | 17°21 | 20°38 | 20°14 | 28° 2 | 26°25 | 27°33 | 29°42 | 21°17 | T 25 |
| F 26 | 4 20 30 | 4° 4'39 | 0 ∡ 32 | 5°37 | 21°17 | 15°19 | 19° 7 | 17°27 | 20°39 | 20°16 | 28° 1 | 26°22 | 27°30 | 29°49 | 21°19 | F 26 |
| S 27 | 4 24 26 | 5° 5'31 | 15°24 | 7°11 | 22°19 | 16° 6 | 19° 9 | 17°33 | 20°40 | 20°18 | 28° 0 | 26°21 | 27°27 | 29°56 | 21°20 | S 27 |
| S 28 | 4 28 23 | 6° 6'25 | 29°58 | 8°45 | 23°21 | 16°52 | 19°12 | 17°39 | 20°42 | 20°19 | 27°59 | 26°D20 | 27°23 | 0 ප 3 | 21°22 | S 28 |
| M29 | 4 32 19 | 7° 7'20 | 14중 8 | 10°19 | 24°23 | 17°39 | 19°15 | 17°45 | 20°43 | 20°21 | 27°58 | 26°21 | 27°20 | 0° 9 | 21°24 | M29 |
| T 30 | 4 36 16 | 8 才 8'16 | 27 る 52 | 11 × 753 | 25 る 24 | 18 る 25 | 19 米 18 | 17 る 51 | 20≈45 | 20 궁 23 | 27 II 57 | 26耳22 | 27 I 17 | 0816 | 21≈26 | T 30 |

Delta T = 31.80 sec

Greg. Calendar

| DECEMBER 1666 GC | 00:00 UT |
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| DECEMBER 1000 GC | 00:00 UI |

| Day | Sid.t | 0 | D | ğ | · | ♂ [™] | 4 | ħ | Ж | 并 | В | ß | ಬ | Ç | ķ | Day |
|------|---------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|-----------------|--------|----------------|---------------|-------|------|
| W 1 | 4 40 12 | 9 .7 9'13 | 11≈10 | 13 × 27 | 26 ප 25 | 19 ට 12 | 19 ∺ 22 | 17 る 57 | 20≈46 | 20 궁 25 | 27°R56 | 26Ⅲ24 | 27 Ⅲ 14 | 0 8 23 | 21≈28 | W 1 |
| T 2 | 4 44 9 | 10°10'10 | 24° 3 | 15° 2 | 27°25 | 19°58 | 19°25 | 18° 3 | 20°48 | 20°26 | 27 I I54 | 26°25 | 27°11 | 0°29 | 21°30 | T 2 |
| F 3 | 4 48 6 | 11°11'08 | 6) €35 | 16°36 | 28°25 | 20°45 | 19°29 | 18° 9 | 20°50 | 20°28 | 27°53 | 26°R26 | 27° 8 | 0°36 | 21°31 | F 3 |
| S 4 | 4 52 2 | 12°12'06 | 18°50 | 18°10 | 29°25 | 21°32 | 19°33 | 18°15 | 20°51 | 20°30 | 27°52 | 26°26 | 27° 4 | 0°43 | 21°34 | S 4 |
| S 5 | 4 55 59 | 13°13'05 | 0 Υ 52 | 19°44 | 0≈24 | 22°18 | 19°37 | 18°21 | 20°53 | 20°32 | 27°51 | 26°25 | 27° 1 | 0°49 | 21°36 | S 5 |
| M 6 | 4 59 55 | 14°14'05 | 12°47 | 21°18 | 1°22 | 23° 5 | 19°42 | 18°27 | 20°55 | 20°34 | 27°50 | 26°24 | 26°58 | 0°56 | 21°38 | M 6 |
| T 7 | 5 3 52 | 15°15'06 | 24°37 | 22°52 | 2°20 | 23°52 | 19°46 | 18°34 | 20°57 | 20°36 | 27°49 | 26°22 | 26°55 | 1° 3 | 21°40 | T 7 |
| W 8 | 5 7 48 | 16°16'07 | 6 8 28 | 24°26 | 3°18 | 24°39 | 19°51 | 18°40 | 20°59 | 20°38 | 27°47 | 26°20 | 26°52 | 1°10 | 21°42 | W 8 |
| T 9 | 5 11 45 | 17°17'08 | 18°23 | 26° 1 | 4°15 | 25°25 | 19°56 | 18°46 | 21° 1 | 20°40 | 27°46 | 26°19 | 26°49 | 1°16 | 21°45 | T 9 |
| F 10 | 5 15 41 | 18°18'10 | 0 Ⅱ 24 | 27°35 | 5°11 | 26°12 | 20° 1 | 18°53 | 21° 3 | 20°42 | 27°45 | 26°18 | 26°45 | 1°23 | 21°47 | F 10 |
| S 11 | 5 19 38 | 19°19'13 | 12°32 | 29° 9 | 6° 7 | 26°59 | 20° 6 | 18°59 | 21° 5 | 20°44 | 27°44 | 26°17 | 26°42 | 1°30 | 21°49 | S 11 |
| S 12 | 5 23 35 | 20°20'17 | 24°51 | 0 궁 44 | 7° 3 | 27°46 | 20°12 | 19° 6 | 21° 7 | 20°46 | 27°43 | 26°D17 | 26°39 | 1°36 | 21°52 | S 12 |
| M13 | 5 27 31 | 21°21'21 | 79520 | 2°18 | 7°57 | 28°33 | 20°18 | 19°12 | 21° 9 | 20°48 | 27°41 | 26°17 | 26°36 | 1°43 | 21°54 | M13 |
| T 14 | 5 31 28 | 22°22'26 | 20° 2 | 3°52 | 8°51 | 29°20 | 20°23 | 19°19 | 21°11 | 20°50 | 27°40 | 26°17 | 26°33 | 1°50 | 21°57 | T 14 |
| W15 | 5 35 24 | 23°23'32 | 2Ω 56 | 5°27 | 9°45 | 0≈ 7 | 20°29 | 19°25 | 21°13 | 20°52 | 27°39 | 26°18 | 26°29 | 1°56 | 21°59 | W15 |
| T 16 | 5 39 21 | 24°24'38 | 16° 4 | 7° 1 | 10°37 | 0°54 | 20°36 | 19°32 | 21°15 | 20°54 | 27°38 | 26°18 | 26°26 | 2° 3 | 22° 2 | T 16 |
| F 17 | 5 43 17 | 25°25'45 | 29°26 | 8°35 | 11°29 | 1°41 | 20°42 | 19°39 | 21°18 | 20°56 | 27°37 | 26°18 | 26°23 | 2°10 | 22° 5 | F 17 |
| S 18 | 5 47 14 | 26°26'53 | 13 m 3 | 10° 8 | 12°21 | 2°28 | 20°48 | 19°45 | 21°20 | 20°58 | 27°35 | 26°R18 | 26°20 | 2°17 | 22° 8 | S 18 |
| S 19 | 5 51 10 | 27°28'01 | 26°55 | 11°42 | 13°11 | 3°15 | 20°55 | 19°52 | 21°22 | 21° 0 | 27°34 | 26°D18 | 26°17 | 2°23 | 22°10 | S 19 |
| M20 | 5 55 7 | 28°29'10 | 11 º 1 | 13°15 | 14° 1 | 4° 2 | 21° 2 | 19°59 | 21°25 | 21° 2 | 27°33 | 26°18 | 26°14 | 2°30 | 22°13 | M20 |
| T 21 | 5 59 4 | 29°30'19 | 25°20 | 14°47 | 14°50 | 4°49 | 21° 9 | 20° 6 | 21°27 | 21° 5 | 27°32 | 26°18 | 26°10 | 2°37 | 22°16 | T 21 |
| W22 | 6 3 0 | 0 궁 31'29 | 9 M 49 | 16°18 | 15°38 | 5°36 | 21°16 | 20°13 | 21°29 | 21° 7 | 27°31 | 26°19 | 26° 7 | 2°43 | 22°19 | W22 |
| T 23 | 6 6 5 7 | 1°32'40 | 24°24 | 17°49 | 16°25 | 6°23 | 21°24 | 20°19 | 21°32 | 21° 9 | 27°29 | 26°19 | 26° 4 | 2°50 | 22°22 | T 23 |
| F 24 | 6 10 53 | 2°33'51 | 9 才 0 | 19°19 | 17°11 | 7°10 | 21°31 | 20°26 | 21°34 | 21°11 | 27°28 | 26°20 | 26° 1 | 2°57 | 22°25 | F 24 |
| S 25 | 6 14 50 | 3°35'03 | 23°31 | 20°47 | 17°56 | 7°57 | 21°39 | 20°33 | 21°37 | 21°13 | 27°27 | 26°R20 | 25°58 | 3° 3 | 22°28 | S 25 |
| S 26 | 6 18 46 | 4°36'15 | 7 궁 51 | 22°14 | 18°40 | 8°45 | 21°47 | 20°40 | 21°40 | 21°16 | 27°26 | 26°20 | 25°55 | 3°10 | 22°31 | S 26 |
| M27 | 6 22 43 | 5°37'27 | 21°54 | 23°38 | 19°23 | 9°32 | 21°54 | 20°47 | 21°42 | 21°18 | 27°25 | 26°19 | 25°51 | 3°17 | 22°34 | M27 |
| T 28 | 6 26 40 | 6°38'38 | 5≈36 | 25° 0 | 20° 5 | 10°19 | 22° 3 | 20°54 | 21°45 | 21°20 | 27°23 | 26°18 | 25°48 | 3°24 | 22°38 | T 28 |
| W29 | 6 30 36 | 7°39'50 | 18°57 | 26°20 | 20°46 | 11° 6 | 22°11 | 21° 1 | 21°48 | 21°22 | 27°22 | 26°16 | 25°45 | 3°30 | 22°41 | W29 |
| T 30 | 6 34 33 | 8°41'01 | 1) (54 | 27°36 | 21°25 | 11°53 | 22°19 | 21° 8 | 21°50 | 21°24 | 27°21 | 26°15 | 25°42 | 3°37 | 22°44 | T 30 |
| F 31 | 6 38 29 | 9 ට 42'12 | 14) (31 | 28 궁 48 | 22≈ 4 | 12≈41 | 22 米 28 | 21 る 15 | 21≈53 | 21 る 27 | 27 Ⅱ 20 | 26耳13 | 25 Ⅱ 39 | 3 8 44 | 22≈48 | F 31 |

Delta T = 31.74 sec

JANUARY 1667 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | Р | n | v | ţ | ę, | Day |
|------|---------|-------------------|----------------|----------------|--------|----------------|----------------|----------------|-------|----------------|----------------|-----------------|----------------|---------------|-------|------|
| S 1 | 6 42 26 | 10 ට 43'23 | 26 ∺ 50 | 29 궁 55 | 22≈41 | 13 ≈ 28 | 22) 37 | 21 る 22 | 21≈56 | 21 る 29 | 27°R19 | 26°R12 | 25 Ⅱ 35 | 3 8 50 | 22≈51 | S 1 |
| S 2 | 6 46 22 | 11°44'33 | 8 Ƴ 55 | 0≈57 | 23°16 | 14°15 | 22°45 | 21°29 | 21°59 | 21°31 | 27 Ⅱ 18 | 26°D11 | 25°32 | 3°57 | 22°54 | S 2 |
| M 3 | 6 50 19 | 12°45'43 | 20°50 | 1°53 | 23°50 | 15° 2 | 22°54 | 21°36 | 22° 1 | 21°33 | 27°16 | 26 I I12 | 25°29 | 4° 4 | 22°58 | M 3 |
| T 4 | 6 54 15 | 13°46'52 | 2841 | 2°42 | 24°23 | 15°49 | 23° 3 | 21°43 | 22° 4 | 21°36 | 27°15 | 26°12 | 25°26 | 4°10 | 23° 1 | T 4 |
| W 5 | 6 58 12 | 14°48'01 | 14°32 | 3°24 | 24°54 | 16°37 | 23°13 | 21°50 | 22° 7 | 21°38 | 27°14 | 26°14 | 25°23 | 4°17 | 23° 5 | W 5 |
| T 6 | 7 2 8 | 15°49'10 | 26°28 | 3°56 | 25°24 | 17°24 | 23°22 | 21°57 | 22°10 | 21°40 | 27°13 | 26°16 | 25°20 | 4°24 | 23° 8 | T 6 |
| F 7 | 7 6 5 | 16°50'18 | 8 Ⅲ 33 | 4°19 | 25°52 | 18°11 | 23°32 | 22° 4 | 22°13 | 21°42 | 27°12 | 26°17 | 25°16 | 4°30 | 23°12 | F 7 |
| S 8 | 7 10 2 | 17°51'25 | 20°50 | 4°32 | 26°18 | 18°58 | 23°41 | 22°11 | 22°16 | 21°45 | 27°11 | 26°R18 | 25°13 | 4°37 | 23°15 | S 8 |
| S 9 | 7 13 58 | 18°52'32 | 39521 | 4°R33 | 26°42 | 19°46 | 23°51 | 22°18 | 22°19 | 21°47 | 27°10 | 26°18 | 25°10 | 4°44 | 23°19 | S 9 |
| M10 | 7 17 55 | 19°53'38 | 16° 9 | 4°23 | 27° 5 | 20°33 | 24° 1 | 22°26 | 22°22 | 21°49 | 27° 9 | 26°17 | 25° 7 | 4°51 | 23°23 | M10 |
| T 11 | 7 21 51 | 20°54'44 | 29°13 | 4° 1 | 27°25 | 21°20 | 24°11 | 22°33 | 22°25 | 21°52 | 27° 7 | 26°14 | 25° 4 | 4°57 | 23°26 | T 11 |
| W12 | 7 25 48 | 21°55'49 | 12 Ω 33 | 3°27 | 27°44 | 22° 7 | 24°21 | 22°40 | 22°28 | 21°54 | 27° 6 | 26°11 | 25° 1 | 5° 4 | 23°30 | W12 |
| T 13 | 7 29 44 | 22°56'54 | 26° 7 | 2°43 | 28° 0 | 22°54 | 24°31 | 22°47 | 22°31 | 21°56 | 27° 5 | 26° 6 | 24°57 | 5°11 | 23°34 | T 13 |
| F 14 | 7 33 41 | 23°57'59 | 9 m 52 | 1°48 | 28°15 | 23°42 | 24°42 | 22°54 | 22°35 | 21°58 | 27° 4 | 26° 2 | 24°54 | 5°17 | 23°38 | F 14 |
| S 15 | 7 37 38 | 24°59'03 | 23°47 | 0°45 | 28°27 | 24°29 | 24°52 | 23° 1 | 22°38 | 22° 1 | 27° 3 | 25°58 | 24°51 | 5°24 | 23°41 | S 15 |
| S 16 | 7 41 34 | 26° 0'06 | 7 ≏ 49 | 29 궁 35 | 28°37 | 25°16 | 25° 3 | 23° 8 | 22°41 | 22° 3 | 27° 2 | 25°56 | 24°48 | 5°31 | 23°45 | S 16 |
| M17 | 7 45 31 | 27° 1'09 | 21°55 | 28°20 | 28°45 | 26° 3 | 25°13 | 23°15 | 22°44 | 22° 5 | 27° 1 | 25°D54 | 24°45 | 5°37 | 23°49 | M17 |
| T 18 | 7 49 27 | 28° 2'12 | 6M 4 | 27° 3 | 28°50 | 26°50 | 25°24 | 23°22 | 22°47 | 22° 7 | 27° 0 | 25°54 | 24°41 | 5°44 | 23°53 | T 18 |
| W19 | 7 53 24 | 29° 3'15 | 20°14 | 25°47 | 28°53 | 27°38 | 25°35 | 23°29 | 22°51 | 22°10 | 26°59 | 25°56 | 24°38 | 5°51 | 23°57 | W19 |
| T 20 | 7 57 20 | 0≈ 4'17 | 4 ₹ 24 | 24°32 | 28°R54 | 28°25 | 25°46 | 23°37 | 22°54 | 22°12 | 26°58 | 25°57 | 24°35 | 5°57 | 24° 1 | T 20 |
| F 21 | 8 1 17 | 1° 5'18 | 18°30 | 23°22 | 28°52 | 29°12 | 25°57 | 23°44 | 22°57 | 22°14 | 26°57 | 25°58 | 24°32 | 6° 4 | 24° 5 | F 21 |
| S 22 | 8 5 13 | 2° 6'19 | 2 ප 32 | 22°18 | 28°48 | 29°59 | 26° 9 | 23°51 | 23° 0 | 22°17 | 26°56 | 25°R58 | 24°29 | 6°11 | 24° 9 | S 22 |
| S 23 | 8 9 10 | 3° 7'19 | 16°26 | 21°21 | 28°41 | 0) 46 | 26°20 | 23°58 | 23° 4 | 22°19 | 26°55 | 25°57 | 24°26 | 6°18 | 24°12 | S 23 |
| M24 | 8 13 7 | 4° 8'18 | 0≈ 8 | 20°32 | 28°31 | 1°33 | 26°31 | 24° 5 | 23° 7 | 22°21 | 26°54 | 25°53 | 24°22 | 6°24 | 24°16 | M24 |
| T 25 | 8 17 3 | 5° 9'16 | 13°36 | 19°52 | 28°19 | 2°20 | 26°43 | 24°12 | 23°10 | 22°23 | 26°53 | 25°47 | 24°19 | 6°31 | 24°21 | T 25 |
| W26 | 8 21 0 | 6°10'13 | 26°47 | 19°20 | 28° 5 | 3° 8 | 26°55 | 24°19 | 23°14 | 22°25 | 26°52 | 25°40 | 24°16 | 6°38 | 24°25 | W26 |
| T 27 | 8 24 56 | 7°11'09 | 9) (41 | 18°57 | 27°48 | 3°55 | 27° 6 | 24°26 | 23°17 | 22°28 | 26°52 | 25°33 | 24°13 | 6°44 | 24°29 | T 27 |
| F 28 | 8 28 53 | 8°12'04 | 22°17 | 18°43 | 27°29 | 4°42 | 27°18 | 24°33 | 23°20 | 22°30 | 26°51 | 25°25 | 24°10 | 6°51 | 24°33 | F 28 |
| S 29 | 8 32 49 | 9°12'57 | 4Υ 36 | 18°D36 | 27° 7 | 5°29 | 27°30 | 24°40 | 23°24 | 22°32 | 26°50 | 25°19 | 24° 7 | 6°58 | 24°37 | S 29 |
| S 30 | 8 36 46 | 10°13'49 | 16°42 | 18°38 | 26°43 | 6°16 | 27°42 | 24°47 | 23°27 | 22°34 | 26°49 | 25°14 | 24° 3 | 7° 4 | 24°41 | S 30 |
| M31 | 8 40 42 | 11≈14'40 | 28 Y 37 | 18 ਰ 47 | 26≈17 | 7) 3 | 27) 54 | 24 궁 54 | 23≈31 | 22 る 37 | 26∏48 | 25 I I11 | 24Ⅱ 0 | 7 8 11 | 24≈45 | M31 |

Delta T = 31.69 sec

Greg. Calendar

FEBRUARY 1667 GC 00:00 UT

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|------|----------|------------------|----------------|----------------|--------|------------------|---------------|----------------|-------|----------------|----------------|-----------------|-----------------|---------------|-------|------|
| T 1 | 8 44 39 | 12≈15'29 | 10828 | 19る 2 | 25°R49 | 7 ∺ 50 | 28 米 6 | 25 ට 1 | 23≈34 | 22 궁 39 | 26°R47 | 25°D 9 | 23 II 57 | 7 8 18 | 24≈49 | T 1 |
| W 2 | 8 48 36 | 13°16'16 | 22°18 | 19°24 | 25≈19 | 8°37 | 28°19 | 25° 8 | 23°37 | 22°41 | 26 Ⅱ 47 | 25 Ⅱ 10 | 23°54 | 7°24 | 24°53 | W 2 |
| T 3 | 8 52 32 | 14°17'03 | 4 Ⅱ 14 | 19°51 | 24°48 | 9°24 | 28°31 | 25°14 | 23°41 | 22°43 | 26°46 | 25°11 | 23°51 | 7°31 | 24°57 | T 3 |
| F 4 | 8 56 29 | 15°17'47 | 16°19 | 20°24 | 24°14 | 10°11 | 28°43 | 25°21 | 23°44 | 22°45 | 26°45 | 25°12 | 23°47 | 7°38 | 25° 1 | F 4 |
| S 5 | 9 0 25 | 16°18'30 | 28°40 | 21° 1 | 23°40 | 10°58 | 28°56 | 25°28 | 23°48 | 22°47 | 26°44 | 25°R13 | 23°44 | 7°44 | 25° 6 | S 5 |
| S 6 | 9 4 22 | 17°19'12 | 119519 | 21°43 | 23° 4 | 11°44 | 29° 8 | 25°35 | 23°51 | 22°49 | 26°44 | 25°11 | 23°41 | 7°51 | 25°10 | S 6 |
| M 7 | 9 8 18 | 18°19'52 | 24°20 | 22°29 | 22°28 | 12°31 | 29°21 | 25°42 | 23°55 | 22°52 | 26°43 | 25° 8 | 23°38 | 7°58 | 25°14 | M 7 |
| T 8 | 9 12 15 | 19°20'30 | 7 Ω 43 | 23°19 | 21°51 | 13°18 | 29°34 | 25°48 | 23°58 | 22°54 | 26°42 | 25° 2 | 23°35 | 8° 5 | 25°18 | T 8 |
| W 9 | 9 16 11 | 20°21'07 | 21°27 | 24°12 | 21°13 | 14° 5 | 29°47 | 25°55 | 24° 1 | 22°56 | 26°42 | 24°53 | 23°32 | 8°11 | 25°22 | W 9 |
| T 10 | 9 20 8 | 21°21'43 | 5 m 29 | 25° 8 | 20°36 | 14°52 | 29°59 | 26° 2 | 24° 5 | 22°58 | 26°41 | 24°44 | 23°28 | 8°18 | 25°26 | T 10 |
| F 11 | 9 24 5 | 22°22'17 | 19°44 | 26° 7 | 19°58 | 15°38 | 0 Υ 12 | 26° 8 | 24° 8 | 23° 0 | 26°40 | 24°34 | 23°25 | 8°25 | 25°31 | F 11 |
| S 12 | 9 28 1 | 23°22'49 | 4 요 7 | 27° 9 | 19°21 | 16°25 | 0°25 | 26°15 | 24°12 | 23° 2 | 26°40 | 24°25 | 23°22 | 8°31 | 25°35 | S 12 |
| S 13 | 9 31 58 | 24°23'21 | 18°31 | 28°13 | 18°45 | 17°12 | 0°38 | 26°22 | 24°15 | 23° 4 | 26°39 | 24°18 | 23°19 | 8°38 | 25°39 | S 13 |
| M14 | 9 35 54 | 25°23'51 | 2 M 51 | 29°20 | 18°10 | 17°58 | 0°51 | 26°28 | 24°19 | 23° 6 | 26°39 | 24°14 | 23°16 | 8°45 | 25°43 | M14 |
| T 15 | 9 39 51 | 26°24'19 | 17° 5 | 0≈28 | 17°36 | 18°45 | 1° 5 | 26°35 | 24°22 | 23° 8 | 26°38 | 24°12 | 23°13 | 8°51 | 25°47 | T 15 |
| W16 | 9 43 47 | 27°24'47 | 1 才 10 | 1°39 | 17° 3 | 19°32 | 1°18 | 26°41 | 24°26 | 23°10 | 26°37 | 24°D11 | 23° 9 | 8°58 | 25°51 | W16 |
| T 17 | 9 47 44 | 28°25'13 | 15° 6 | 2°52 | 16°32 | 20°18 | 1°31 | 26°47 | 24°29 | 23°12 | 26°37 | 24°12 | 23° 6 | 9° 5 | 25°56 | T 17 |
| F 18 | 9 51 40 | 29°25'38 | 2 <u>8</u> °52 | 4° 6 | 16° 3 | 21° 5 | 1°45 | 26°54 | 24°33 | 23°14 | 26°36 | 24°R12 | 23° 3 | 9°11 | 26° 0 | F 18 |
| S 19 | 9 55 37 | 0 ∺ 26'02 | 12 る 29 | 5°22 | 15°35 | 21°51 | 1°58 | 27° 0 | 24°36 | 23°16 | 26°36 | 24°11 | 23° 0 | 9°18 | 26° 4 | S 19 |
| S 20 | 9 59 34 | 1°26'24 | 25°56 | 6°40 | 15°10 | 22°38 | 2°11 | 27° 6 | 24°40 | 23°18 | 26°36 | 24° 7 | 22°57 | 9°25 | 26° 8 | S 20 |
| M21 | 10 3 30 | 2°26'44 | 9≈13 | 7°59 | 14°47 | 23°24 | 2°25 | 27°13 | 24°43 | 23°19 | 26°35 | 24° 0 | 22°53 | 9°31 | 26°12 | M21 |
| T 22 | 10 7 27 | 3°27'03 | 22°19 | 9°19 | 14°26 | 24°11 | 2°39 | 27°19 | 24°46 | 23°21 | 26°35 | 23°50 | 22°50 | 9°38 | 26°17 | T 22 |
| W23 | 10 11 23 | 4°27'20 | 5) 12 | 10°41 | 14° 7 | 24°57 | 2°52 | 27°25 | 24°50 | 23°23 | 26°34 | 23°38 | 22°47 | 9°45 | 26°21 | W23 |
| T 24 | 10 15 20 | 5°27'35 | 17°53 | 12° 5 | 13°51 | 25°43 | 3° 6 | 27°31 | 24°53 | 23°25 | 26°34 | 23°25 | 22°44 | 9°51 | 26°25 | T 24 |
| F 25 | 10 19 16 | 6°27'49 | 0 Υ 20 | 13°29 | 13°37 | 26°30 | 3°20 | 27°37 | 24°57 | 23°27 | 26°34 | 23°12 | 22°41 | 9°58 | 26°29 | F 25 |
| S 26 | 10 23 13 | 7°28'00 | 12°34 | 14°55 | 13°26 | 27°16 | 3°33 | 27°43 | 25° 0 | 23°29 | 26°33 | 23° 0 | 22°38 | 10° 5 | 26°33 | S 26 |
| S 27 | 10 27 9 | 8°28'10 | 24°37 | 16°22 | 13°17 | 28° 2 | 3°47 | 27°49 | 25° 4 | 23°30 | 26°33 | 22°50 | 22°34 | 10°11 | 26°37 | S 27 |
| M28 | 10 31 6 | 9 ∺ 28'17 | 6 8 31 | 17 ≈ 51 | 13≈10 | 28) (48 | 4Υ 1 | 27 る 55 | 25≈ 7 | 23 る 32 | 26耳33 | 22 II 43 | 22 II 31 | 10818 | 26≈41 | M28 |

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| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| ħ | В | ₽. | v | Ç | , k | Day |
|------|----------|-------------------|-----------------|----------------|---------------|----------------|----------------|---------------|-------|----------------|--------|-----------------|-------|----------------|----------------|------|
| T 1 | 10 35 3 | 10 ¥ 28′22 | 18821 | 19 ≈ 20 | 13°R 6 | 29) 34 | 4 Υ15 | 28 ට 1 | 25≈10 | 23 ~ 34 | 26°R33 | 22°R39 | 22Ⅲ28 | 10825 | 26≈45 | T 1 |
| W 2 | 10 38 59 | 11°28'26 | 0 Π 9 | 20°51 | 13°D 5 | 0 Υ 21 | 4°29 | 28° 7 | 25°14 | 23°35 | 26耳32 | 22 II 37 | 22°25 | 10°32 | 26°49 | W 2 |
| T 3 | 10 42 56 | 12°28'27 | 12° 3 | 22°23 | 13 ≈ 6 | 1° 7 | 4°43 | 28°13 | 25°17 | 23°37 | 26°32 | 22°D36 | 22°22 | 10°38 | 26°54 | T 3 |
| F 4 | 10 46 52 | 13°28'26 | 24° 6 | 23°56 | 13° 9 | 1°53 | 4°57 | 28°18 | 25°20 | 23°39 | 26°32 | 22°R36 | 22°18 | 10°45 | 26°58 | F 4 |
| S 5 | 10 50 49 | 14°28'23 | 6926 | 25°30 | 13°14 | 2°39 | 5°11 | 28°24 | 25°24 | 23°40 | 26°32 | 22°36 | 22°15 | 10°52 | 27° 2 | S 5 |
| S 6 | 10 54 45 | 15°28'18 | 19° 6 | 27° 6 | 13°22 | 3°25 | 5°25 | 28°30 | 25°27 | 23°42 | 26°32 | 22°33 | 22°12 | 10°58 | 27° 6 | S 6 |
| M 7 | 10 58 42 | 16°28'10 | 2 Ω 10 | 28°42 | 13°32 | 4°11 | 5°39 | 28°35 | 25°30 | 23°43 | 26°32 | 22°29 | 22° 9 | 11° 5 | 27°10 | M 7 |
| T 8 | 11 238 | 17°28'01 | 15°42 | 0 ∺ 20 | 13°44 | 4°56 | 5°53 | 28°41 | 25°34 | 23°45 | 26°32 | 22°21 | 22° 6 | 11°12 | 27°14 | T 8 |
| W 9 | 11 635 | 18°27'49 | 29°40 | 1°59 | 13°59 | 5°42 | 6° 7 | 28°46 | 25°37 | 23°47 | 26°32 | 22°11 | 22° 3 | 11°18 | 27°18 | W 9 |
| T 10 | 11 10 32 | 19°27'35 | 14Mp 2 | 3°39 | 14°15 | 6°28 | 6°21 | 28°52 | 25°40 | 23°48 | 26°32 | 22° 0 | 21°59 | 11°25 | 27°22 | T 10 |
| F 11 | 11 14 28 | 20°27'19 | 28°42 | 5°20 | 14°33 | 7°14 | 6°36 | 28°57 | 25°43 | 23°49 | 26°D32 | 21°48 | 21°56 | 11°32 | 27°25 | F 11 |
| S 12 | 11 18 25 | 21°27'01 | 13 ≏ 32 | 7° 3 | 14°54 | 8° 0 | 6°50 | 29° 2 | 25°47 | 23°51 | 26°32 | 21°37 | 21°53 | 11°38 | 27°29 | S 12 |
| S 13 | 11 22 21 | 22°26'41 | 28°22 | 8°47 | 15°16 | 8°45 | 7° 4 | 29° 7 | 25°50 | 23°52 | 26°32 | 21°28 | 21°50 | 11°45 | 27°33 | S 13 |
| M14 | 11 26 18 | 23°26'19 | 13 M 6 | 10°31 | 15°39 | 9°31 | 7°18 | 29°12 | 25°53 | 23°54 | 26°32 | 21°21 | 21°47 | 11°52 | 27°37 | M14 |
| T 15 | 11 30 14 | 24°25'56 | 27°37 | 12°18 | 16° 5 | 10°16 | 7°33 | 29°17 | 25°56 | 23°55 | 26°32 | 21°18 | 21°44 | 11°58 | 27°41 | T 15 |
| W16 | 11 34 11 | 25°25'31 | 11 ~ 51 | 14° 5 | 16°32 | 11° 2 | 7°47 | 29°22 | 25°59 | 23°56 | 26°32 | 21°17 | 21°40 | 12° 5 | 27°45 | W16 |
| T 17 | 11 38 7 | 26°25'04 | 25°48 | 15°54 | 17° 1 | 11°47 | 8° 1 | 29°27 | 26° 2 | 23°58 | 26°32 | 21°17 | 21°37 | 12°12 | 27°49 | T 17 |
| F 18 | 11 42 4 | 27°24'35 | 9 ට 27 | 17°44 | 17°32 | 12°33 | 8°16 | 29°32 | 26° 5 | 23°59 | 26°32 | 21°16 | 21°34 | 12°18 | 27°52 | F 18 |
| S 19 | 11 46 0 | 28°24'05 | 22°51 | 19°35 | 18° 4 | 13°18 | 8°30 | 29°37 | 26° 8 | 24° 0 | 26°32 | 21°14 | 21°31 | 12°25 | 27°56 | S 19 |
| S 20 | 11 49 57 | 29°23'33 | 6≈ 0 | 21°28 | 18°37 | 14° 4 | 8°45 | 29°42 | 26°11 | 24° 1 | 26°33 | 21°10 | 21°28 | 12°32 | 28° 0 | S 20 |
| M21 | 11 53 54 | 0 Υ 22'59 | 18°57 | 23°22 | 19°11 | 14°49 | 8°59 | 29°46 | 26°14 | 24° 3 | 26°33 | 21° 3 | 21°24 | 12°38 | 28° 3 | M21 |
| T 22 | 11 57 50 | 1°22'24 | 1) (42 | 25°17 | 19°47 | 15°34 | 9°14 | 29°51 | 26°17 | 24° 4 | 26°33 | 20°53 | 21°21 | 12°45 | 28° 7 | T 22 |
| W23 | 12 1 47 | 2°21'46 | 14°16 | 27°13 | 20°25 | 16°19 | 9°28 | 29°55 | 26°20 | 24° 5 | 26°33 | 20°41 | 21°18 | 12°52 | 28°11 | W23 |
| T 24 | 12 5 43 | 3°21'06 | 26°40 | 29°11 | 21° 3 | 17° 5 | 9°42 | 29°59 | 26°23 | 24° 6 | 26°34 | 20°27 | 21°15 | 12°58 | 28°14 | T 24 |
| F 25 | 12 9 40 | 4°20'24 | 8 Y 55 | 1 Υ 9 | 21°43 | 17°50 | 9°57 | 0≈ 4 | 26°26 | 24° 7 | 26°34 | 20°14 | 21°12 | 13° 5 | 28°18 | F 25 |
| S 26 | 12 13 36 | 5°19'41 | 21° 0 | 3° 9 | 22°23 | 18°35 | 10°11 | 0° 8 | 26°29 | 24° 8 | 26°34 | 20° 1 | 21° 9 | 13°12 | 28°21 | S 26 |
| S 27 | 12 17 33 | 6°18'55 | 2 8 57 | 5°10 | 23° 5 | 19°20 | 10°26 | 0°13 | 26°32 | 24° 9 | 26°35 | 19°51 | 21° 5 | 13°18 | 28°25 | S 27 |
| M28 | 12 21 29 | 7°18'06 | 14°48 | 7°12 | 23°48 | 20° 5 | 10°40 | 0°17 | 26°35 | 24°10 | 26°35 | 19°43 | 21° 2 | 13°25 | 28°28 | M28 |
| T 29 | 12 25 26 | 8°17'16 | 26°35 | 9°15 | 24°31 | 20°50 | 10°55 | 0°21 | 26°38 | 24°11 | 26°35 | 19°38 | 20°59 | 13°32 | 28°32 | T 29 |
| W30 | 12 29 23 | 9°16'24 | 8Д23 | 11°19 | 25°16 | 21°35 | 11° 9 | 0°25 | 26°40 | 24°12 | 26°36 | 19°35 | 20°56 | 13°38 | 28°35 | W30 |
| T 31 | 12 33 19 | 10 Y 15'29 | 20耳15 | 13 Y 23 | 26≈ 2 | 22 Y 20 | 11 Y 24 | 0≈29 | 26≈43 | 24 궁 13 | 26耳36 | 19°D35 | 20耳53 | 13 8 45 | 28≈39 | T 31 |
| T 31 | 12 33 19 | 10 Υ 15'29 | 20 Ⅱ 15 | 13 Y 23 | 26≈ 2 | 22 Υ 20 | 11 Υ 24 | 0≈29 | 26≈43 | 24 3 13 | 26耳36 | 19°D35 | 20耳53 | 13 8 45 | 28 ≈ 39 | |

Delta T = 31.58 sec

Greg. Calendar

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | Р | r | Ω | Ç | Š. | Day |
|------|----------|-------------------|----------------|----------------|-------------------|---------------|----------------|------|-------|----------------|-------|----------------|-----------------|----------------|--------------|------|
| F 1 | 12 37 16 | 11 ° 14'32 | 29917 | 15 Y 28 | 26≈48 | 23 Y 4 | 11 Y 38 | 0≈32 | 26≈46 | 24중14 | 26耳37 | 19 Ⅱ 35 | 20耳50 | 13 8 52 | 28≈42 | F 1 |
| S 2 | 12 41 12 | 12°13'33 | 14°34 | 17°32 | 27°35 | 23°49 | 11°53 | 0°36 | 26°49 | 24°14 | 26°37 | 19°R35 | 20°46 | 13°58 | 28°45 | S 2 |
| S 3 | 12 45 9 | 13°12'31 | 27°11 | 19°37 | 28°23 | 24°34 | 12° 7 | 0°40 | 26°51 | 24°15 | 26°38 | 19°34 | 20°43 | 14° 5 | 28°48 | S 3 |
| M 4 | 12 49 5 | 14°11'27 | 10Ω13 | 21°41 | 29°12 | 25°18 | 12°22 | 0°43 | 26°54 | 24°16 | 26°38 | 19°31 | 20°40 | 14°12 | 28°52 | M 4 |
| T 5 | 12 53 2 | 15°10'21 | 23°43 | 23°45 | 0)(2 | 26° 3 | 12°36 | 0°47 | 26°56 | 24°17 | 26°39 | 19°26 | 20°37 | 14°18 | 28°55 | T 5 |
| W 6 | 12 56 58 | 16° 9'12 | 7 mp 42 | 25°48 | 0°52 | 26°48 | 12°51 | 0°50 | 26°59 | 24°17 | 26°40 | 19°19 | 20°34 | 14°25 | 28°58 | W 6 |
| T 7 | 13 0 55 | 17° 8'01 | 22°10 | 27°49 | 1°43 | 27°32 | 13° 5 | 0°53 | 27° 2 | 24°18 | 26°40 | 19°10 | 20°30 | 14°32 | 29° 1 | T 7 |
| F 8 | 13 4 52 | 18° 6'48 | 7요 0 | 29°49 | 2°35 | 28°16 | 13°20 | 0°57 | 27° 4 | 24°19 | 26°41 | 19° 0 | 20°27 | 14°39 | 29° 4 | F 8 |
| S 9 | 13 8 48 | 19° 5'33 | 22° 5 | 1847 | 3°27 | 29° 1 | 13°34 | 1° 0 | 27° 6 | 24°19 | 26°41 | 18°51 | 20°24 | 14°45 | 29° 7 | S 9 |
| S 10 | 13 12 45 | 20° 4'16 | 7 M ∟15 | 3°42 | 4°20 | 29°45 | 13°48 | 1° 3 | 27° 9 | 24°20 | 26°42 | 18°44 | 20°21 | 14°52 | 29°10 | S 10 |
| M11 | 13 16 41 | 21° 2'57 | 22°20 | 5°35 | 5°13 | 0829 | 14° 3 | 1° 6 | 27°11 | 24°20 | 26°43 | 18°39 | 20°18 | 14°59 | 29°13 | M11 |
| T 12 | 13 20 38 | 22° 1'37 | 7 .7 11 | 7°25 | 6° 8 | 1°14 | 14°17 | 1° 9 | 27°14 | 24°21 | 26°43 | 18°37 | 20°15 | 15° 5 | 29°16 | T 12 |
| W13 | 13 24 34 | 23° 0'14 | 21°42 | 9°11 | 7° 2 | 1°58 | 14°32 | 1°11 | 27°16 | 24°21 | 26°44 | 18°D36 | 20°11 | 15°12 | 29°19 | W13 |
| T 14 | 13 28 31 | 23°58'50 | 5 궁 51 | 10°54 | 7°57 | 2°42 | 14°46 | 1°14 | 27°18 | 24°22 | 26°45 | 18°37 | 20° 8 | 15°19 | 29°22 | T 14 |
| F 15 | 13 32 27 | 24°57'25 | 19°36 | 12°34 | 8°53 | 3°26 | 15° 0 | 1°17 | 27°20 | 24°22 | 26°46 | 18°R38 | 20° 5 | 15°25 | 29°24 | F 15 |
| S 16 | 13 36 24 | 25°55'58 | 2≈58 | 14° 9 | 9°49 | 4°10 | 15°15 | 1°19 | 27°23 | 24°22 | 26°46 | 18°38 | 20° 2 | 15°32 | 29°27 | S 16 |
| S 17 | 13 40 21 | 26°54'29 | 16° 1 | 15°40 | 10°46 | 4°54 | 15°29 | 1°22 | 27°25 | 24°23 | 26°47 | 18°36 | 19°59 | 15°39 | 29°30 | S 17 |
| M18 | 13 44 17 | 27°52'58 | 28°47 | 17° 6 | 11°43 | 5°38 | 15°43 | 1°24 | 27°27 | 24°23 | 26°48 | 18°32 | 19°55 | 15°45 | 29°32 | M18 |
| T 19 | 13 48 14 | 28°51'26 | 11 米 19 | 18°28 | 12°41 | 6°22 | 15°58 | 1°26 | 27°29 | 24°23 | 26°49 | 18°26 | 19°52 | 15°52 | 29°35 | T 19 |
| W20 | 13 52 10 | 29°49'52 | 23°39 | 19°46 | 13°38 | 7° 6 | 16°12 | 1°28 | 27°31 | 24°24 | 26°50 | 18°18 | 19°49 | 15°59 | 29°38 | W20 |
| T 21 | 13 56 7 | 0 8 48'16 | 5 Ƴ 49 | 20°58 | 14°37 | 7°50 | 16°26 | 1°30 | 27°33 | 24°24 | 26°51 | 18° 9 | 19°46 | 16° 5 | 29°40 | T 21 |
| F 22 | 14 0 3 | 1°46'39 | 17°52 | 22° 6 | 15°36 | 8°33 | 16°41 | 1°32 | 27°35 | 24°24 | 26°52 | 18° 0 | 19°43 | 16°12 | 29°42 | F 22 |
| S 23 | 14 4 0 | 2°45'00 | 29°48 | 23° 9 | 16°35 | 9°17 | 16°55 | 1°34 | 27°37 | 24°24 | 26°52 | 17°52 | 19°40 | 16°19 | 29°45 | S 23 |
| S 24 | 14 7 56 | 3°43'19 | 11839 | 24° 7 | 17°34 | 10° 1 | 17° 9 | 1°36 | 27°39 | 24°24 | 26°53 | 17°45 | 19°36 | 16°25 | 29°47 | S 24 |
| M25 | 14 11 53 | 4°41'36 | 23°28 | 25° 0 | 18°34 | 10°44 | 17°23 | 1°37 | 27°40 | 24°24 | 26°54 | 17°40 | 19°33 | 16°32 | 29°49 | M25 |
| T 26 | 14 15 49 | 5°39'51 | 5 Ⅱ 15 | 25°47 | 19°34 | 11°28 | 17°37 | 1°39 | 27°42 | 24°R24 | 26°55 | 17°37 | 19°30 | 16°39 | 29°52 | T 26 |
| W27 | 14 19 46 | 6°38'05 | 17° 5 | 26°30 | 20°35 | 12°11 | 17°51 | 1°40 | 27°44 | 24°24 | 26°56 | 17°D36 | 19°27 | 16°45 | 29°54 | W27 |
| T 28 | 14 23 43 | 7°36'16 | 28°59 | 27° 7 | 21°36 | 12°55 | 18° 5 | 1°42 | 27°46 | 24°24 | 26°57 | 17°37 | 19°24 | 16°52 | 29°56 | T 28 |
| F 29 | 14 27 39 | 8°34'26 | 1195 3 | 27°39 | 22°37 | 13°38 | 18°19 | 1°43 | 27°47 | 24°24 | 26°58 | 17°38 | 19°21 | 16°59 | 29°58 | F 29 |
| S 30 | 14 31 36 | 9 8 32'34 | 239521 | 28 8 5 | 23) 38 | 14821 | 18 Y 33 | 1≈44 | 27≈49 | 24 궁 24 | 26耳59 | 17 Ⅱ 40 | 19 I I17 | 17 8 5 | 0 ∺ 0 | S 30 |

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| M 2 14 2 T 3 14 4 W 4 14 4 T 5 14 2 F 6 14 2 | 1 35 32 1 39 29 1 43 25 1 47 22 1 51 18 1 55 15 1 59 12 | 10 8 30'40 11°28'43 12°26'45 13°24'45 14°22'43 15°20'39 | 5 Ω 56 18°54 2 m 18 16°10 0 Ω 30 | 28 8 26 28°42 28°53 28°58 | 24) 40 25°42 26°44 27°47 | 15 8 5 15°48 16°31 | 18 Υ 47 19° 1 | 1≈45 | 27≈51 | 24°R24 | 27 I 0 | 17°R41 | 19 Ⅱ 14 | 17812 | 0 ∺ 2 | S 1 |
|--|---|---|---|---|-----------------------------------|---------------------------------|-------------------------|-------|----------------|----------------|----------------|----------------|----------------|-------|---------------|------|
| T 3 14 4 W 4 14 4 T 5 14 5 F 6 14 5 | 4 43 25 4 47 22 4 51 18 4 55 15 | 12°26'45 13°24'45 14°22'43 15°20'39 | 2 m 18 16°10 0 Ω 30 | 28°53 28°58 | 26°44 | | 19° 1 | 1046 | | | | | | | | |
| W 4 14 4 T 5 14 1 F 6 14 | 4 47 22 4 51 18 4 55 15 | 13°24'45 14°22'43 15°20'39 | 16°10 0 ≙ 30 | 28°58 | | 16°31 | | 1°46 | 27°52 | 24 중 24 | 27° 1 | 17 Ⅱ 41 | 19°11 | 17°19 | 0° 4 | M 2 |
| T 5 14 1 F 6 14 | 1 51 18 1 55 15 | 14°22'43 15°20'39 | 0 ჲ 30 | | 27047 | | 19°15 | 1°47 | 27°54 | 24°23 | 27° 2 | 17°39 | 19° 8 | 17°25 | 0° 6 | T 3 |
| F 6 14 | 1 55 15 | 15°20'39 | | | 2/-4/ | 17°14 | 19°29 | 1°48 | 27°55 | 24°23 | 27° 4 | 17°36 | 19° 5 | 17°32 | 0°8 | W 4 |
| | | | | 28°R58 | 28°49 | 17°57 | 19°43 | 1°49 | 27°56 | 24°23 | 27° 5 | 17°32 | 19° 1 | 17°39 | 0° 9 | T 5 |
| S 7 14 | 1 59 12 | 1 (01010 1 | 15°15 | 28°54 | 29°52 | 18°40 | 19°56 | 1°49 | 27°58 | 24°23 | 27° 6 | 17°27 | 18°58 | 17°45 | 0°11 | F 6 |
| , , , , , , , | | 16°18'34 | 0 M .19 | 28°44 | 0 Υ 56 | 19°23 | 20°10 | 1°50 | 27°59 | 24°22 | 27° 7 | 17°23 | 18°55 | 17°52 | 0°13 | S 7 |
| S 8 15 | | 17°16'26 | 15°33 | 28°30 | 1°59 | 20° 6 | 20°24 | 1°50 | 28° 0 | 24°22 | 27° 8 | 17°20 | 18°52 | 17°59 | 0°14 | S 8 |
| M 9 15 | 7 5 | 18°14'18 | 0 ∡ 147 | 28°12 | 3° 3 | 20°49 | 20°37 | 1°51 | 28° 1 | 24°22 | 27° 9 | 17°17 | 18°49 | 18° 5 | 0°16 | M 9 |
| T 10 15 | 5 11 1 | 19°12'08 | 15°51 | 27°50 | 4° 7 | 21°32 | 20°51 | 1°51 | 28° 3 | 24°21 | 27°10 | 17°D17 | 18°46 | 18°12 | 0°17 | T 10 |
| | 5 14 58 | 20° 9'56 | 0 ප 37 | 27°25 | 5°11 | 22°15 | 21° 4 | 1°51 | 28° 4 | 24°21 | 27°12 | 17°17 | 18°42 | 18°19 | 0°19 | W11 |
| | 5 18 54 | 21° 7'44 | 14°59 | 26°57 | 6°15 | 22°57 | 21°18 | 1°R51 | 28° 5 | 24°20 | 27°13 | 17°18 | 18°39 | 18°25 | 0°20 | T 12 |
| F 13 15 | 5 22 51 | 22° 5'30 | 28°55 | 26°26 | 7°20 | 23°40 | 21°31 | 1°51 | 28° 6 | 24°20 | 27°14 | 17°20 | 18°36 | 18°32 | 0°22 | F 13 |
| S 14 15 | 5 26 48 | 23° 3'15 | 12≈25 | 25°53 | 8°24 | 24°23 | 21°45 | 1°51 | 28° 7 | 24°19 | 27°15 | 17°21 | 18°33 | 18°39 | 0°23 | S 14 |
| S 15 15 | 30 44 | 24° 0'59 | 25°31 | 25°20 | 9°29 | 25° 5 | 21°58 | 1°50 | 28° 8 | 24°19 | 27°17 | 17°R21 | 18°30 | 18°45 | 0°24 | S 15 |
| M16 15 | 34 41 | 24°58'42 | 8 米 15 | 24°45 | 10°34 | 25°48 | 22°11 | 1°50 | 28° 9 | 24°18 | 27°18 | 17°21 | 18°27 | 18°52 | 0°25 | M16 |
| T 17 15 | 38 37 | 25°56'24 | 20°42 | 24°11 | 11°40 | 26°30 | 22°25 | 1°49 | 28° 9 | 24°17 | 27°19 | 17°19 | 18°23 | 18°59 | 0°26 | T 17 |
| W18 15 | 5 42 34 | 26°54'04 | 2 Υ 55 | 23°36 | 12°45 | 27°13 | 22°38 | 1°49 | 28°10 | 24°17 | 27°20 | 17°17 | 18°20 | 19° 5 | 0°27 | W18 |
| | 5 46 30 | 27°51'44 | 14°57 | 23° 3 | 13°51 | 27°55 | 22°51 | 1°48 | 28°11 | 24°16 | 27°22 | 17°14 | 18°17 | 19°12 | 0°28 | T 19 |
| | 5 50 27 | 28°49'22 | 26°52 | 22°32 | 14°57 | 28°37 | 23° 4 | 1°47 | 28°12 | 24°15 | 27°23 | 17°11 | 18°14 | 19°19 | 0°29 | F 20 |
| S 21 15 | 5 54 23 | 29°47'00 | 8 8 42 | 22° 3 | 16° 3 | 29°20 | 23°17 | 1°47 | 28°12 | 24°15 | 27°24 | 17° 8 | 18°11 | 19°25 | 0°30 | S 21 |
| S 22 15 | 5 58 20 | 0∏44'36 | 20°30 | 21°36 | 17° 9 | 0耳 2 | 23°30 | 1°46 | 28°13 | 24°14 | 27°26 | 17° 6 | 18° 7 | 19°32 | 0°31 | S 22 |
| | 5 2 16 | 1°42'11 | 2 I I19 | 21°13 | 18°15 | 0°44 | 23°43 | 1°45 | 28°13 | 24°13 | 27°27 | 17° 4 | 18° 4 | 19°39 | 0°32 | M23 |
| | 6 13 | 2°39'45 | 14° 9 | 20°53 | 19°21 | 1°26 | 23°56 | 1°43 | 28°14 | 24°12 | 27°28 | 17°D 4 | 18° 1 | 19°45 | 0°32 | T 24 |
| | 5 10 10 | 3°37'18 | 26° 5 | 20°36 | 20°28 | 2° 8 | 24° 8 | 1°42 | 28°14 | 24°11 | 27°30 | 17° 4 | 17°58 | 19°52 | 0°33 | W25 |
| | 5 14 6 | 4°34'50 | 8 95 7 | 20°24 | 21°35 | 2°50 | 24°21 | 1°41 | 28°15 | 24°10 | 27°31 | 17° 5 | 17°55 | 19°59 | 0°33 | T 26 |
| | 5 18 3 | 5°32'21 | 20°19 | 20°16 | 22°41 | 3°32 | 24°34 | 1°39 | 28°15 | 24°10 | 27°32 | 17° 6 | 17°52 | 20° 5 | 0°34 | F 27 |
| S 28 16 | 5 21 59 | 6°29'50 | 2 Ω 43 | 20°D12 | 23°48 | 4°14 | 24°46 | 1°38 | 28°15 | 24° 9 | 27°34 | 17° 7 | 17°48 | 20°12 | 0°34 | S 28 |
| | 5 25 56 | 7°27'18 | 15°24 | 20°12 | 24°55 | 4°56 | 24°58 | 1°36 | 28°15 | 24° 8 | 27°35 | 17° 8 | 17°45 | 20°19 | 0°35 | S 29 |
| | 5 29 52 | 8°24'45 | 28°23 | 20°17 | 26° 2 | 5°38 | 25°11 | 1°35 | 28°16 | 2 <u>4°</u> 7 | 27°36 | 17° 8 | 17°42 | 20°25 | 0°35 | M30 |
| T 31 16 | 33 49 | 9 Ⅱ 22'10 | 11 M 43 | 20827 | 27 Υ 10 | 6 Ⅱ 20 | 25 Y 23 | 1≈33 | 28 ≈ 16 | 24궁 6 | 27 Ⅱ 38 | 17°R 8 | 17 Ⅱ 39 | 20832 | 0 ∺ 35 | T 31 |

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| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)f(| ¥ | В | v | v | Ç | ę, | Day |
|------|----------|-------------------|-----------------|----------------|----------------|--------------|----------------|-------|--------|----------------|----------------|----------------|-----------------|----------------|----------------|------|
| W 1 | 16 37 46 | 10 Ⅱ 19'35 | 25 m 27 | 20840 | 28 Y 17 | 7 Ⅱ 1 | 25 Y 35 | 1°R31 | 28≈16 | 24°R 5 | 27 Ⅲ 39 | 17°R 8 | 17 Ⅲ 36 | 20 8 38 | 0) €35 | W 1 |
| T 2 | 16 41 42 | 11°16'58 | 9 ॒ 35 | 20°59 | 29°25 | 7°43 | 25°48 | 1≈29 | 28°R16 | 24중 4 | 27°41 | 17 II 8 | 17°33 | 20°45 | 0°36 | T 2 |
| F 3 | 16 45 39 | 12°14'20 | 24° 6 | 21°22 | 0 8 32 | 8°25 | 26° 0 | 1°27 | 28°16 | 24° 2 | 27°42 | 17° 7 | 17°29 | 20°52 | 0°36 | F 3 |
| S 4 | 16 49 35 | 13°11'41 | 8 M .55 | 21°49 | 1°40 | 9° 6 | 26°12 | 1°25 | 28°16 | 24° 1 | 27°43 | 17° 7 | 17°26 | 20°58 | 0°R36 | S 4 |
| S 5 | 16 53 32 | 14° 9'01 | 23°57 | 22°20 | 2°48 | 9°48 | 26°24 | 1°23 | 28°16 | 24° 0 | 27°45 | 17° 6 | 17°23 | 21° 5 | 0°36 | S 5 |
| M 6 | 16 57 28 | 15° 6'20 | 9 , ₹ 4 | 22°56 | 3°56 | 10°29 | 26°35 | 1°20 | 28°16 | 23°59 | 27°46 | 17° 6 | 17°20 | 21°12 | 0°35 | M 6 |
| T 7 | 17 1 25 | 16° 3'38 | 24° 6 | 23°35 | 5° 4 | 11°11 | 26°47 | 1°18 | 28°15 | 23°58 | 27°48 | 17°D 6 | 17°17 | 21°18 | 0°35 | T 7 |
| W 8 | 17 5 21 | 17° 0'56 | 8 궁 55 | 24°19 | 6°12 | 11°52 | 26°59 | 1°16 | 28°15 | 23°57 | 27°49 | 17°R 6 | 17°13 | 21°25 | 0°35 | W 8 |
| T 9 | 17 9 18 | 17°58'13 | 23°24 | 25° 7 | 7°20 | 12°33 | 27°10 | 1°13 | 28°15 | 23°56 | 27°51 | 17° 6 | 17°10 | 21°32 | 0°35 | T 9 |
| F 10 | 17 13 15 | 18°55'30 | 7≈28 | 25°59 | 8°29 | 13°15 | 27°22 | 1°10 | 28°15 | 23°54 | 27°52 | 17° 6 | 17° 7 | 21°38 | 0°34 | F 10 |
| S 11 | 17 17 11 | 19°52'46 | 21° 7 | 26°54 | 9°37 | 13°56 | 27°33 | 1° 8 | 28°14 | 23°53 | 27°53 | 17° 6 | 17° 4 | 21°45 | 0°34 | S 11 |
| S 12 | 17 21 8 | 20°50'02 | 4) (19 | 27°54 | 10°46 | 14°37 | 27°45 | 1° 5 | 28°14 | 23°52 | 27°55 | 17° 5 | 17° 1 | 21°52 | 0°34 | S 12 |
| M13 | 17 25 4 | 21°47'17 | 17° 7 | 28°57 | 11°54 | 15°18 | 27°56 | 1° 2 | 28°13 | 23°50 | 27°56 | 17°D 5 | 16°58 | 21°58 | 0°33 | M13 |
| T 14 | 17 29 1 | 22°44'33 | 29°34 | 0 I I 3 | 13° 3 | 15°59 | 28° 7 | 0°59 | 28°13 | 23°49 | 27°58 | 17° 5 | 16°54 | 22° 5 | 0°33 | T 14 |
| W15 | 17 32 57 | 23°41'48 | 11 Y 46 | 1°13 | 14°12 | 16°40 | 28°18 | 0°56 | 28°12 | 23°48 | 27°59 | 17° 6 | 16°51 | 22°12 | 0°32 | W15 |
| T 16 | 17 36 54 | 24°39'02 | 23°45 | 2°27 | 15°21 | 17°21 | 28°29 | 0°53 | 28°11 | 23°46 | 28° 1 | 17° 6 | 16°48 | 22°18 | 0°31 | T 16 |
| F 17 | 17 40 50 | 25°36'17 | 5 8 37 | 3°44 | 16°30 | 18° 2 | 28°40 | 0°50 | 28°11 | 23°45 | 28° 2 | 17° 7 | 16°45 | 22°25 | 0°30 | F 17 |
| S 18 | 17 44 47 | 26°33'32 | 17°25 | 5° 5 | 17°39 | 18°43 | 28°51 | 0°47 | 28°10 | 23°44 | 28° 4 | 17° 8 | 16°42 | 22°32 | 0°30 | S 18 |
| S 19 | 17 48 44 | 27°30'46 | 29°13 | 6°28 | 18°48 | 19°24 | 29° 1 | 0°43 | 28° 9 | 23°42 | 28° 5 | 17° 9 | 16°39 | 22°38 | 0°29 | S 19 |
| M20 | 17 52 40 | 28°28'00 | 11 I I 4 | 7°56 | 19°57 | 20° 5 | 29°12 | 0°40 | 28° 9 | 23°41 | 28° 6 | 17° 9 | 16°35 | 22°45 | 0°28 | M20 |
| T 21 | 17 56 37 | 29°25'14 | 23° 1 | 9°26 | 21° 7 | 20°46 | 29°22 | 0°37 | 28° 8 | 23°39 | 28° 8 | 17°R 9 | 16°32 | 22°52 | 0°27 | T 21 |
| W22 | 18 0 33 | 09522'28 | 5 95 6 | 11° 0 | 22°16 | 21°27 | 29°33 | 0°33 | 28° 7 | 23°38 | 28° 9 | 17° 9 | 16°29 | 22°58 | 0°26 | W22 |
| T 23 | 18 4 30 | 1°19'41 | 17°22 | 12°37 | 23°25 | 22° 7 | 29°43 | 0°30 | 28° 6 | 23°37 | 28°11 | 17° 7 | 16°26 | 23° 5 | 0°25 | T 23 |
| F 24 | 18 8 26 | 2°16'54 | 29°48 | 14°18 | 24°35 | 22°48 | 29°53 | 0°26 | 28° 5 | 23°35 | 28°12 | 17° 5 | 16°23 | 23°12 | 0°24 | F 24 |
| S 25 | 18 12 23 | 3°14'07 | 12 \O 27 | 16° 1 | 25°45 | 23°29 | 0 8 3 | 0°22 | 28° 4 | 23°34 | 28°14 | 17° 3 | 16°19 | 23°18 | 0°22 | S 25 |
| S 26 | 18 16 19 | 4°11'20 | 25°21 | 17°48 | 26°54 | 24° 9 | 0°13 | 0°19 | 28° 3 | 23°32 | 28°15 | 17° 1 | 16°16 | 23°25 | 0°21 | S 26 |
| M27 | 18 20 16 | 5° 8'32 | 8 m 29 | 19°37 | 28° 4 | 24°50 | 0°22 | 0°15 | 28° 2 | 23°31 | 28°17 | 16°59 | 16°13 | 23°32 | 0°20 | M27 |
| T 28 | 18 24 13 | 6° 5'43 | 21°54 | 21°30 | 29°14 | 25°30 | 0°32 | 0°11 | 28° 0 | 23°29 | 28°18 | 16°58 | 16°10 | 23°38 | 0°18 | T 28 |
| W29 | 18 28 9 | 7° 2'55 | 5 ₾ 36 | 23°24 | 0 П 24 | 26°11 | 0°42 | 0° 7 | 27°59 | 23°28 | 28°20 | 16°D57 | 16° 7 | 23°45 | 0°17 | W29 |
| T 30 | 18 32 6 | 89 0'06 | 19 ≏ 35 | 25 Ⅲ 22 | 1 Ⅲ 34 | 26耳51 | 0 8 51 | 0≈ 3 | 27≈58 | 23 궁 26 | 28Ⅲ21 | 16耳57 | 16 I I 4 | 23852 | 0) 16 | T 30 |

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|------|----------|--------------------|-----------------|----------------|---------------|-----------------|---------------|----------------|----------------|----------------|-------|--------|---------------|----------------|---------------|------|
| F 1 | 18 36 2 | 8957'17 | 3 M 50 | 27 Ⅲ 22 | 2 Ⅱ 44 | 27 I I31 | 1 8 0 | 29°R59 | 27°R57 | 23°R24 | 28Ⅲ22 | 16耳58 | 16 I 0 | 23 8 58 | 0°R14 | F 1 |
| S 2 | 18 39 59 | 9°54'27 | 18°20 | 29°24 | 3°54 | 28°12 | 1°10 | 29 궁 55 | 27 ≈ 55 | 23 중 23 | 28°24 | 17° 0 | 15°57 | 24° 5 | 0) 12 | S 2 |
| S 3 | 18 43 55 | 10°51'38 | 3 ×7 1 | 19528 | 5° 4 | 28°52 | 1°19 | 29°51 | 27°54 | 23°21 | 28°25 | 17° 1 | 15°54 | 24°12 | 0°11 | S 3 |
| M 4 | 18 47 52 | 11°48'48 | 17°47 | 3°33 | 6°14 | 29°32 | 1°28 | 29°47 | 27°53 | 23°20 | 28°27 | 17°R 1 | 15°51 | 24°18 | 0° 9 | M 4 |
| T 5 | 18 51 48 | 12°45'59 | 2 る 33 | 5°40 | 7°25 | 0ණ12 | 1°36 | 29°43 | 27°51 | 23°18 | 28°28 | 17° 1 | 15°48 | 24°25 | 0° 7 | T 5 |
| W 6 | 18 55 45 | 13°43'10 | 17°10 | 7°48 | 8°35 | 0°53 | 1°45 | 29°39 | 27°50 | 23°17 | 28°30 | 16°59 | 15°45 | 24°32 | 0° 6 | W 6 |
| T 7 | 18 59 42 | 14°40'21 | 1≈34 | 9°57 | 9°46 | 1°33 | 1°54 | 29°35 | 27°48 | 23°15 | 28°31 | 16°56 | 15°41 | 24°38 | 0° 4 | T 7 |
| F 8 | 19 3 38 | 15°37'32 | 15°37 | 12° 6 | 10°56 | 2°13 | 2° 2 | 29°31 | 27°47 | 23°13 | 28°32 | 16°52 | 15°38 | 24°45 | 0° 2 | F 8 |
| S 9 | 19 7 35 | 16°34'43 | 29°18 | 14°15 | 12° 7 | 2°53 | 2°10 | 29°26 | 27°45 | 23°12 | 28°34 | 16°47 | 15°35 | 24°52 | 0° 0 | S 9 |
| S 10 | 19 11 31 | 17°31'55 | 12) 33 | 16°24 | 13°17 | 3°33 | 2°18 | 29°22 | 27°44 | 23°10 | 28°35 | 16°43 | 15°32 | 24°58 | 29≈58 | S 10 |
| M11 | 19 15 28 | 18°29'08 | 25°24 | 18°33 | 14°28 | 4°13 | 2°26 | 29°18 | 27°42 | 23° 9 | 28°37 | 16°40 | 15°29 | 25° 5 | 29°56 | M11 |
| T 12 | 19 19 24 | 19°26'21 | 7 Ƴ 54 | 20°41 | 15°39 | 4°53 | 2°34 | 29°13 | 27°40 | 23° 7 | 28°38 | 16°38 | 15°25 | 25°11 | 29°54 | T 12 |
| W13 | 19 23 21 | 20°23'35 | 20° 7 | 22°48 | 16°50 | 5°32 | 2°42 | 29° 9 | 27°38 | 23° 5 | 28°39 | 16°D37 | 15°22 | 25°18 | 29°52 | W13 |
| T 14 | 19 27 18 | 21°20'50 | 2 8 6 | 24°54 | 18° 1 | 6°12 | 2°49 | 29° 5 | 27°37 | 23° 4 | 28°41 | 16°38 | 15°19 | 25°25 | 29°50 | T 14 |
| F 15 | 19 31 14 | 22°18'05 | 13°57 | 26°59 | 19°12 | 6°52 | 2°57 | 29° 0 | 27°35 | 23° 2 | 28°42 | 16°39 | 15°16 | 25°31 | 29°48 | F 15 |
| S 16 | 19 35 11 | 23°15'21 | 25°46 | 29° 3 | 20°23 | 7°32 | 3° 4 | 28°56 | 27°33 | 23° 0 | 28°43 | 16°41 | 15°13 | 25°38 | 29°46 | S 16 |
| S 17 | 19 39 7 | 24°12'38 | 7 Ⅱ 35 | 1 0 6 | 21°34 | 8°11 | 3°11 | 28°51 | 27°31 | 22°59 | 28°45 | 16°42 | 15°10 | 25°45 | 29°43 | S 17 |
| M18 | 19 43 4 | 25° 9'56 | 19°31 | 3° 7 | 22°45 | 8°51 | 3°18 | 28°47 | 27°29 | 22°57 | 28°46 | 16°R43 | 15° 6 | 25°51 | 29°41 | M18 |
| T 19 | 19 47 0 | 26° 7'14 | 19936 | 5° 6 | 23°56 | 9°31 | 3°25 | 28°43 | 27°27 | 22°56 | 28°47 | 16°41 | 15° 3 | 25°58 | 29°39 | T 19 |
| W20 | 19 50 57 | 27° 4'34 | 13°53 | 7° 4 | 25° 8 | 10°10 | 3°32 | 28°38 | 27°26 | 22°54 | 28°49 | 16°38 | 15° 0 | 26° 5 | 29°36 | W20 |
| T 21 | 19 54 53 | 28° 1'54 | 26°24 | 9° 0 | 26°19 | 10°50 | 3°38 | 28°34 | 27°24 | 22°52 | 28°50 | 16°34 | 14°57 | 26°11 | 29°34 | T 21 |
| F 22 | 19 58 50 | 28°59'14 | 9€ 9 | 10°54 | 27°30 | 11°29 | 3°45 | 28°29 | 27°22 | 22°51 | 28°51 | 16°27 | 14°54 | 26°18 | 29°31 | F 22 |
| S 23 | 20 2 47 | 29°56'36 | 22° 9 | 12°47 | 28°42 | 12° 9 | 3°51 | 28°25 | 27°20 | 22°49 | 28°53 | 16°20 | 14°51 | 26°25 | 29°29 | S 23 |
| S 24 | 20 6 43 | 0 Ω 53'58 | 5 m 24 | 14°38 | 29°53 | 12°48 | 3°57 | 28°20 | 27°18 | 22°47 | 28°54 | 16°13 | 14°47 | 26°31 | 29°26 | S 24 |
| M25 | 20 10 40 | 1°51'20 | 18°51 | 16°28 | 199 5 | 13°28 | 4° 3 | 28°16 | 27°15 | 22°46 | 28°55 | 16° 6 | 14°44 | 26°38 | 29°24 | M25 |
| T 26 | 20 14 36 | 2°48'43 | 2 ≙ 29 | 18°16 | 2°16 | 14° 7 | 4° 8 | 28°11 | 27°13 | 22°44 | 28°56 | 16° 1 | 14°41 | 26°45 | 29°21 | T 26 |
| W27 | 20 18 33 | 3°46'07 | 16°18 | 20° 2 | 3°28 | 14°46 | 4°14 | 28° 7 | 27°11 | 22°43 | 28°58 | 15°57 | 14°38 | 26°51 | 29°19 | W27 |
| T 28 | 20 22 29 | 4°43'31 | 0 M 17 | 21°46 | 4°40 | 15°26 | 4°19 | 28° 3 | 27° 9 | 22°41 | 28°59 | 15°D56 | 14°35 | 26°58 | 29°16 | T 28 |
| F 29 | 20 26 26 | 5°40'56 | 14°23 | 23°29 | 5°52 | 16° 5 | 4°25 | 27°58 | 27° 7 | 22°39 | 29° 0 | 15°56 | 14°31 | 27° 5 | 29°13 | F 29 |
| S 30 | 20 30 22 | 6°38'21 | 28°37 | 25°10 | 7° 4 | 16°44 | 4°30 | 27°54 | 27° 5 | 22°38 | 29° 1 | 15°57 | 14°28 | 27°11 | 29°11 | S 30 |
| S 31 | 20 34 19 | 7 Ω 35'48 | 12 × 756 | 26 Ω 50 | 8915 | 17923 | 4 8 35 | 27 る 50 | 27 ≈ 3 | 22 る 36 | 29耳 3 | 15°R58 | 14∏25 | 27 8 18 | 29≈ 8 | S 31 |

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|------|----------|------------------|-----------------|----------------|----------------|---------------|---------------|----------------|--------|----------------|-------|----------------|-----------------|----------------|--------|------|
| M 1 | 20 38 16 | 8 Ω 33'15 | 27 × 18 | 28 Ω 27 | 9927 | 1895 2 | 4 8 39 | 27°R45 | 27°R 0 | 22°R35 | 29耳 4 | 15°R58 | 14∏22 | 27 8 25 | 29°R 5 | M 1 |
| T 2 | 20 42 12 | 9°30'43 | 11 る 39 | 0Mp 4 | 10°39 | 18°41 | 4°44 | 27 る 41 | 26≈58 | 22 云 33 | 29° 5 | 15 Ⅱ 55 | 14°19 | 27°31 | 29≈ 2 | T 2 |
| W 3 | 20 46 9 | 10°28'11 | 25°55 | 1°38 | 11°52 | 19°20 | 4°48 | 27°37 | 26°56 | 22°32 | 29° 6 | 15°50 | 14°16 | 27°38 | 29° 0 | W 3 |
| T 4 | 20 50 5 | 11°25'41 | 10≈ 1 | 3°11 | 13° 4 | 19°59 | 4°52 | 27°32 | 26°54 | 22°30 | 29° 7 | 15°43 | 14°12 | 27°44 | 28°57 | T 4 |
| F 5 | 20 54 2 | 12°23'12 | 23°52 | 4°43 | 14°16 | 20°38 | 4°56 | 27°28 | 26°51 | 22°29 | 29° 8 | 15°35 | 14° 9 | 27°51 | 28°54 | F 5 |
| S 6 | 20 57 58 | 13°20'44 | 7 ∺ 24 | 6°12 | 15°28 | 21°17 | 5° 0 | 27°24 | 26°49 | 22°27 | 29° 9 | 15°25 | 14° 6 | 27°58 | 28°51 | S 6 |
| S 7 | 21 155 | 14°18'17 | 20°35 | 7°40 | 16°40 | 21°56 | 5° 4 | 27°20 | 26°47 | 22°26 | 29°11 | 15°16 | 14° 3 | 28° 4 | 28°48 | S 7 |
| M 8 | 21 5 51 | 15°15'52 | 3 ℃ 25 | 9° 7 | 17°53 | 22°35 | 5° 7 | 27°16 | 26°44 | 22°24 | 29°12 | 15° 8 | 14° 0 | 28°11 | 28°45 | M 8 |
| T 9 | 21 9 48 | 16°13'27 | 15°54 | 10°32 | 19° 5 | 23°14 | 5°10 | 27°12 | 26°42 | 22°23 | 29°13 | 15° 1 | 13°56 | 28°18 | 28°42 | T 9 |
| W10 | 21 13 45 | 17°11'05 | 28° 7 | 11°55 | 20°18 | 23°53 | 5°14 | 27° 8 | 26°40 | 22°21 | 29°14 | 14°57 | 13°53 | 28°24 | 28°40 | W10 |
| T 11 | 21 17 41 | 18° 8'44 | 108 6 | 13°16 | 21°30 | 24°32 | 5°16 | 27° 4 | 26°37 | 22°20 | 29°15 | 14°55 | 13°50 | 28°31 | 28°37 | T 11 |
| F 12 | 21 21 38 | 19° 6'24 | 21°57 | 14°35 | 22°43 | 25°10 | 5°19 | 27° 0 | 26°35 | 22°19 | 29°16 | 14°D55 | 13°47 | 28°38 | 28°34 | F 12 |
| S 13 | 21 25 34 | 20° 4'06 | 3 Ⅱ 46 | 15°53 | 23°55 | 25°49 | 5°22 | 26°56 | 26°33 | 22°17 | 29°17 | 14°55 | 13°44 | 28°44 | 28°31 | S 13 |
| S 14 | 21 29 31 | 21° 1'50 | 15°37 | 17° 9 | 25° 8 | 26°28 | 5°24 | 26°52 | 26°30 | 22°16 | 29°18 | 14°R56 | 13°41 | 28°51 | 28°28 | S 14 |
| M15 | 21 33 27 | 21°59'36 | 27°36 | 18°23 | 26°21 | 27° 6 | 5°26 | 26°48 | 26°28 | 22°14 | 29°19 | 14°55 | 13°37 | 28°58 | 28°25 | M15 |
| T 16 | 21 37 24 | 22°57'23 | 9 95 47 | 19°35 | 27°34 | 27°45 | 5°28 | 26°44 | 26°26 | 22°13 | 29°20 | 14°52 | 13°34 | 29° 4 | 28°22 | T 16 |
| W17 | 21 41 20 | 23°55'11 | 22°14 | 20°45 | 28°47 | 28°23 | 5°30 | 26°41 | 26°23 | 22°12 | 29°21 | 14°47 | 13°31 | 29°11 | 28°19 | W17 |
| T 18 | 21 45 17 | 24°53'02 | 4 Ω 59 | 21°52 | 29°59 | 29° 2 | 5°31 | 26°37 | 26°21 | 22°10 | 29°22 | 14°39 | 13°28 | 29°18 | 28°16 | T 18 |
| F 19 | 21 49 14 | 25°50'53 | 18° 4 | 22°58 | 1 Ω 12 | 29°40 | 5°33 | 26°33 | 26°18 | 22° 9 | 29°22 | 14°29 | 13°25 | 29°24 | 28°13 | F 19 |
| S 20 | 21 53 10 | 26°48'47 | 1 Mp 26 | 24° 1 | 2°25 | 0 Ω 19 | 5°34 | 26°30 | 26°16 | 22° 8 | 29°23 | 14°18 | 13°22 | 29°31 | 28°10 | S 20 |
| S 21 | 21 57 7 | 27°46'41 | 15° 6 | 25° 1 | 3°39 | 0°57 | 5°35 | 26°26 | 26°14 | 22° 7 | 29°24 | 14° 6 | 13°18 | 29°38 | 28° 7 | S 21 |
| M22 | 22 1 3 | 28°44'37 | 28°58 | 25°59 | 4°52 | 1°36 | 5°35 | 26°23 | 26°11 | 22° 5 | 29°25 | 13°56 | 13°15 | 29°44 | 28° 4 | M22 |
| T 23 | 22 5 0 | 29°42'35 | 12 ≏ 59 | 26°54 | 6° 5 | 2°14 | 5°36 | 26°19 | 26° 9 | 22° 4 | 29°26 | 13°47 | 13°12 | 29°51 | 28° 1 | T 23 |
| W24 | 22 8 56 | 0 Mp 40'34 | 27° 5 | 27°47 | 7°18 | 2°52 | 5°36 | 26°16 | 26° 6 | 22° 3 | 29°27 | 13°41 | 13° 9 | 29°57 | 27°58 | W24 |
| T 25 | 22 12 53 | 1°38'34 | 11 M .14 | 28°36 | 8°31 | 3°31 | 5°R36 | 26°13 | 26° 4 | 22° 2 | 29°27 | 13°38 | 13° 6 | 0 Π 4 | 27°55 | T 25 |
| F 26 | 22 16 49 | 2°36'36 | 25°23 | 29°22 | 9°45 | 4° 9 | 5°36 | 26°10 | 26° 2 | 22° 1 | 29°28 | 13°36 | 13° 2 | 0°11 | 27°52 | F 26 |
| S 27 | 22 20 46 | 3°34'39 | 9 ∡ 30 | 0요 4 | 10°58 | 4°47 | 5°36 | 26° 7 | 25°59 | 22° 0 | 29°29 | 13°36 | 12°59 | 0°17 | 27°49 | S 27 |
| S 28 | 22 24 43 | 4°32'43 | 23°35 | 0°43 | 12°11 | 5°25 | 5°36 | 26° 4 | 25°57 | 21°58 | 29°30 | 13°36 | 12°56 | 0°24 | 27°46 | S 28 |
| M29 | 22 28 39 | 5°30'49 | 7 궁 36 | 1°17 | 13°25 | 6° 3 | 5°35 | 26° 1 | 25°55 | 21°57 | 29°30 | 13°35 | 12°53 | 0°31 | 27°43 | M29 |
| T 30 | 22 32 36 | 6°28'56 | 21°33 | 1°47 | 14°38 | 6°41 | 5°34 | 2 <u>5</u> °58 | 25°52 | 2 <u>1°</u> 56 | 29°31 | 13°31 | 12°50 | 0°37 | 27°40 | T 30 |
| W31 | 22 36 32 | 7 m 27'05 | 5≈23 | 2 ≏ 13 | 15 Ω 52 | 7 Ω 19 | 5 8 33 | 25 る 55 | 25≈50 | 21 る 55 | 29∏32 | 13 Ⅱ 24 | 12 II 47 | 0 Ⅱ 44 | 27≈37 | W31 |

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SEPTEMBER 1667 GC 00:00 UT

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|------|----------|------------------|-----------------|----------------|----------------|---------------|---------------|----------------|--------|----------------|--------|----------------|-----------------|--------------|--------|------|
| T 1 | 22 40 29 | 8 Mg 25'15 | 19 ≈ 5 | 2 ≏ 34 | 17 Ω 5 | 7 Ω 57 | 5°R32 | 25°R53 | 25°R48 | 21°R54 | 29耳32 | 13°R14 | 12 Ⅱ 43 | 0耳51 | 27°R34 | T 1 |
| F 2 | 22 44 25 | 9°23'27 | 2) (34 | 2°50 | 18°19 | 8°35 | 5 8 30 | 25 る 50 | 25≈45 | 21 궁 53 | 29°33 | 13 II 3 | 12°40 | 0°57 | 27≈31 | F 2 |
| S 3 | 22 48 22 | 10°21'41 | 15°49 | 3° 0 | 19°33 | 9°13 | 5°29 | 25°47 | 25°43 | 21°52 | 29°34 | 12°50 | 12°37 | 1° 4 | 27°28 | S 3 |
| S 4 | 22 52 18 | 11°19'56 | 28°47 | 3°R 5 | 20°46 | 9°51 | 5°27 | 25°45 | 25°41 | 21°51 | 29°34 | 12°37 | 12°34 | 1°11 | 27°25 | S 4 |
| M 5 | 22 56 15 | 12°18'13 | 11 Y 28 | 3° 3 | 22° 0 | 10°29 | 5°25 | 25°43 | 25°38 | 21°51 | 29°35 | 12°26 | 12°31 | 1°17 | 27°22 | M 5 |
| T 6 | 23 0 11 | 13°16'33 | 23°53 | 2°55 | 23°14 | 11° 7 | 5°23 | 25°40 | 25°36 | 21°50 | 29°35 | 12°17 | 12°28 | 1°24 | 27°20 | T 6 |
| W 7 | 23 4 8 | 14°14'54 | 6 8 2 | 2°41 | 24°28 | 11°45 | 5°20 | 25°38 | 25°34 | 21°49 | 29°36 | 12°10 | 12°24 | 1°31 | 27°17 | W 7 |
| T 8 | 23 8 5 | 15°13'17 | 18° 0 | 2°20 | 25°42 | 12°22 | 5°18 | 25°36 | 25°32 | 21°48 | 29°36 | 12° 6 | 12°21 | 1°37 | 27°14 | T 8 |
| F 9 | 23 12 1 | 16°11'43 | 29°50 | 1°52 | 26°56 | 13° 0 | 5°15 | 25°34 | 25°30 | 21°47 | 29°37 | 12° 5 | 12°18 | 1°44 | 27°11 | F 9 |
| S 10 | 23 15 58 | 17°10'10 | 11 II 38 | 1°17 | 28°10 | 13°38 | 5°12 | 25°32 | 25°27 | 21°46 | 29°37 | 12° 4 | 12°15 | 1°50 | 27° 8 | S 10 |
| S 11 | 23 19 54 | 18° 8'40 | 23°29 | 0°36 | 29°24 | 14°16 | 5° 9 | 25°30 | 25°25 | 21°46 | 29°38 | 12° 4 | 12°12 | 1°57 | 27° 6 | S 11 |
| M12 | 23 23 51 | 19° 7'12 | 59528 | 29 m 49 | 0 m p38 | 14°53 | 5° 5 | 25°28 | 25°23 | 21°45 | 29°38 | 12° 3 | 12° 8 | 2° 4 | 27° 3 | M12 |
| T 13 | 23 27 47 | 20° 5'47 | 17°41 | 28°57 | 1°52 | 15°31 | 5° 2 | 25°27 | 25°21 | 21°44 | 29°39 | 12° 1 | 12° 5 | 2°10 | 27° 0 | T 13 |
| W14 | 23 31 44 | 21° 4'23 | 0Ω 13 | 27°59 | 3° 6 | 16° 8 | 4°58 | 25°25 | 25°19 | 21°44 | 29°39 | 11°56 | 12° 2 | 2°17 | 26°58 | W14 |
| T 15 | 23 35 40 | 22° 3'02 | 13° 6 | 26°58 | 4°20 | 16°46 | 4°54 | 25°24 | 25°17 | 21°43 | 29°39 | 11°48 | 11°59 | 2°24 | 26°55 | T 15 |
| F 16 | 23 39 37 | 23° 1'42 | 26°23 | 25°54 | 5°34 | 17°24 | 4°50 | 25°22 | 25°15 | 21°43 | 29°40 | 11°38 | 11°56 | 2°30 | 26°52 | F 16 |
| S 17 | 23 43 34 | 24° 0'25 | 10 Mg 4 | 24°49 | 6°49 | 18° 1 | 4°45 | 25°21 | 25°13 | 21°42 | 29°40 | 11°27 | 11°53 | 2°37 | 26°50 | S 17 |
| S 18 | 23 47 30 | 24°59'10 | 24° 5 | 23°45 | 8° 3 | 18°38 | 4°41 | 25°20 | 25°11 | 21°41 | 29°40 | 11°15 | 11°49 | 2°44 | 26°47 | S 18 |
| M19 | 23 51 27 | 25°57'56 | 8 ₾ 23 | 22°42 | 9°17 | 19°16 | 4°36 | 25°19 | 25° 9 | 21°41 | 29°40 | 11° 4 | 11°46 | 2°50 | 26°45 | M19 |
| T 20 | 23 55 23 | 26°56'45 | 22°50 | 21°44 | 10°32 | 19°53 | 4°31 | 25°18 | 25° 7 | 21°41 | 29°41 | 10°55 | 11°43 | 2°57 | 26°42 | T 20 |
| W21 | 23 59 20 | 27°55'36 | 7 M L21 | 20°50 | 11°46 | 20°31 | 4°26 | 25°17 | 25° 5 | 21°40 | 29°41 | 10°49 | 11°40 | 3° 4 | 26°40 | W21 |
| T 22 | 0 3 16 | 28°54'28 | 21°50 | 20° 3 | 13° 1 | 21° 8 | 4°21 | 25°16 | 25° 3 | 21°40 | 29°41 | 10°45 | 11°37 | 3°10 | 26°37 | T 22 |
| F 23 | 0 7 13 | 29°53'22 | 6 ₹ 13 | 19°24 | 14°15 | 21°45 | 4°16 | 25°15 | 25° 1 | 21°39 | 29°41 | 10°D44 | 11°33 | 3°17 | 26°35 | F 23 |
| S 24 | 0 11 9 | 0 ჲ 52'18 | 20°25 | 18°54 | 15°30 | 22°22 | 4°10 | 25°15 | 24°59 | 21°39 | 29°41 | 10°44 | 11°30 | 3°24 | 26°33 | S 24 |
| S 25 | 0 15 6 | 1°51'16 | 4 る 28 | 18°33 | 16°44 | 22°59 | 4° 4 | 25°14 | 24°58 | 21°39 | 29°42 | 10°R44 | 11°27 | 3°30 | 26°30 | S 25 |
| M26 | 0 19 3 | 2°50'16 | 18°19 | 18°D23 | 17°59 | 23°37 | 3°59 | 25°14 | 24°56 | 21°38 | 29°42 | 10°43 | 11°24 | 3°37 | 26°28 | M26 |
| T 27 | 0 22 59 | 3°49'17 | 1≈59 | 18°23 | 19°13 | 24°14 | 3°53 | 25°14 | 24°54 | 21°38 | 29°42 | 10°40 | 11°21 | 3°43 | 26°26 | T 27 |
| W28 | 0 26 56 | 4°48'20 | 15°27 | 18°34 | 20°28 | 24°51 | 3°46 | 25°13 | 24°53 | 21°38 | 29°42 | 10°34 | 11°18 | 3°50 | 26°24 | W28 |
| T 29 | 0 30 52 | 5°47'25 | 28°45 | 18°54 | 21°43 | 25°28 | 3°40 | 25°13 | 24°51 | 21°38 | 29°42 | 10°26 | 11°14 | 3°57 | 26°22 | T 29 |
| F 30 | 0 34 49 | 6 ₽ 46'31 | 11 米 51 | 19 m 24 | 22 M 57 | 26Ω 5 | 3 8 34 | 25°D13 | 24≈49 | 21 궁 38 | 29°R42 | 10 Ⅱ 16 | 11 I I11 | 4 Ⅱ 3 | 26≈20 | F 30 |

Delta T = 31.25 sec

Greg. Calendar

OCTOBER 1667 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | В | r | Ω | Ç | ď | Day |
|------|---------|------------------|----------------|----------------|---------------|----------------|----------------|----------------|--------|----------------|--------|---------------|---------------|--------------|--------|------|
| S 1 | 0 38 45 | 7 ≏ 45'39 | 24) 45 | 20 Mg 4 | 24 Mp 12 | 26 Ω 42 | 3°R27 | 25 ප 13 | 24°R48 | 21°R38 | 29°R42 | 10°R 5 | 11 I 8 | 4Ⅱ 10 | 26°R18 | S 1 |
| S 2 | 0 42 42 | 8°44'50 | 7 Y 25 | 20°52 | 25°27 | 27°19 | 3 8 21 | 25°13 | 24≈46 | 21 궁 38 | 29∏42 | 9∏54 | 11° 5 | 4°17 | 26≈16 | S 2 |
| M 3 | 0 46 38 | 9°44'02 | 19°52 | 21°48 | 26°42 | 27°55 | 3°14 | 25°14 | 24°45 | 21°38 | 29°42 | 9°44 | 11° 2 | 4°23 | 26°14 | M 3 |
| T 4 | 0 50 35 | 10°43'17 | 2 8 7 | 22°52 | 27°56 | 28°32 | 3° 7 | 25°14 | 24°43 | 21°D38 | 29°42 | 9°35 | 10°59 | 4°30 | 26°12 | T 4 |
| W 5 | 0 54 32 | 11°42'34 | 14°10 | 24° 2 | 29°11 | 29° 9 | 3° 0 | 25°15 | 24°42 | 21°38 | 29°41 | 9°30 | 10°55 | 4°37 | 26°10 | W 5 |
| T 6 | 0 58 28 | 12°41'53 | 26° 4 | 25°17 | 0 ჲ 26 | 29°46 | 2°53 | 25°15 | 24°41 | 21°38 | 29°41 | 9°27 | 10°52 | 4°43 | 26° 8 | T 6 |
| F 7 | 1 2 25 | 13°41'14 | 7 Ⅱ 52 | 26°38 | 1°41 | 0 m 23 | 2°45 | 25°16 | 24°39 | 21°38 | 29°41 | 9°D25 | 10°49 | 4°50 | 26° 7 | F 7 |
| S 8 | 1 621 | 14°40'38 | 19°39 | 28° 2 | 2°56 | 0°59 | 2°38 | 25°17 | 24°38 | 21°38 | 29°41 | 9°26 | 10°46 | 4°57 | 26° 5 | S 8 |
| S 9 | 1 10 18 | 15°40'04 | 19528 | 29°31 | 4°11 | 1°36 | 2°31 | 25°18 | 24°37 | 21°38 | 29°41 | 9°27 | 10°43 | 5° 3 | 26° 3 | S 9 |
| M10 | 1 14 14 | 16°39'32 | 13°26 | 1 ♀ 2 | 5°26 | 2°13 | 2°23 | 25°18 | 24°36 | 21°38 | 29°41 | 9°R28 | 10°39 | 5°10 | 26° 2 | M10 |
| T 11 | 1 18 11 | 17°39'03 | 25°38 | 2°36 | 6°41 | 2°49 | 2°16 | 25°20 | 24°34 | 21°38 | 29°40 | 9°27 | 10°36 | 5°16 | 26° 0 | T 11 |
| W12 | 1 22 7 | 18°38'35 | 8 N 8 | 4°12 | 7°56 | 3°26 | 2° 8 | 25°21 | 24°33 | 21°39 | 29°40 | 9°25 | 10°33 | 5°23 | 25°59 | W12 |
| T 13 | 1 26 4 | 19°38'11 | 21° 1 | 5°50 | 9°11 | 4° 2 | 2° 0 | 25°22 | 24°32 | 21°39 | 29°40 | 9°21 | 10°30 | 5°30 | 25°57 | T 13 |
| F 14 | 1 30 1 | 20°37'48 | 4 Mp 21 | 7°29 | 10°26 | 4°39 | 1°52 | 25°23 | 24°31 | 21°39 | 29°40 | 9°15 | 10°27 | 5°36 | 25°56 | F 14 |
| S 15 | 1 33 57 | 21°37'28 | 18° 7 | 9° 8 | 11°41 | 5°15 | 1°44 | 25°25 | 24°30 | 21°40 | 29°39 | 9° 8 | 10°24 | 5°43 | 25°55 | S 15 |
| S 16 | 1 37 54 | 22°37'09 | 2 ≏ 20 | 10°49 | 12°56 | 5°51 | 1°36 | 25°26 | 24°29 | 21°40 | 29°39 | 9° 0 | 10°20 | 5°50 | 25°53 | S 16 |
| M17 | 1 41 50 | 23°36'53 | 16°54 | 12°30 | 14°11 | 6°28 | 1°28 | 25°28 | 24°28 | 21°41 | 29°38 | 8°53 | 10°17 | 5°56 | 25°52 | M17 |
| T 18 | 1 45 47 | 24°36'39 | 1 M .43 | 14°12 | 15°26 | 7° 4 | 1°20 | 25°30 | 24°28 | 21°41 | 29°38 | 8°47 | 10°14 | 6° 3 | 25°51 | T 18 |
| W19 | 1 49 43 | 25°36'27 | 16°38 | 15°53 | 16°41 | 7°40 | 1°12 | 25°32 | 24°27 | 21°42 | 29°38 | 8°43 | 10°11 | 6°10 | 25°50 | W19 |
| T 20 | 1 53 40 | 26°36'17 | 1 ₹ 32 | 17°35 | 17°57 | 8°16 | 1° 4 | 25°34 | 24°26 | 21°42 | 29°37 | 8°41 | 10° 8 | 6°16 | 25°49 | T 20 |
| F 21 | 1 57 36 | 27°36'09 | 16°16 | 19°16 | 19°12 | 8°52 | 0°56 | 25°36 | 24°25 | 21°43 | 29°37 | 8°D41 | 10° 5 | 6°23 | 25°48 | F 21 |
| S 22 | 2 1 33 | 28°36'02 | 0 궁 46 | 20°58 | 20°27 | 9°29 | 0°48 | 25°38 | 24°25 | 21°43 | 29°36 | 8°42 | 10° 1 | 6°30 | 25°47 | S 22 |
| S 23 | 2 5 30 | 29°35'57 | 14°58 | 22°39 | 21°42 | 10° 5 | 0°40 | 25°40 | 24°24 | 21°44 | 29°36 | 8°44 | 9°58 | 6°36 | 25°46 | S 23 |
| M24 | 2 9 26 | 0 M 35'54 | 28°51 | 24°19 | 22°57 | 10°41 | 0°32 | 25°43 | 24°24 | 21°45 | 29°35 | 8°R44 | 9°55 | 6°43 | 25°45 | M24 |
| T 25 | 2 13 23 | 1°35'52 | 12≈26 | 26° 0 | 24°13 | 11°17 | 0°24 | 25°45 | 24°23 | 21°45 | 29°35 | 8°44 | 9°52 | 6°50 | 25°45 | T 25 |
| W26 | 2 17 19 | 2°35'52 | 25°43 | 27°40 | 25°28 | 11°52 | 0°15 | 25°48 | 24°23 | 21°46 | 29°34 | 8°42 | 9°49 | 6°56 | 25°44 | W26 |
| T 27 | 2 21 16 | 3°35'53 | 8) (44 | 29°20 | 26°43 | 12°28 | 0° 7 | 25°50 | 24°22 | 21°47 | 29°34 | 8°38 | 9°45 | 7° 3 | 25°43 | T 27 |
| F 28 | 2 25 12 | 4°35'57 | 21°31 | 0M.59 | 27°58 | 13° 4 | 29 Y 59 | 25°53 | 24°22 | 21°48 | 29°33 | 8°33 | 9°42 | 7° 9 | 25°43 | F 28 |
| S 29 | 2 29 9 | 5°36'01 | 4Υ 5 | 2°38 | 29°14 | 13°40 | 29°51 | 25°56 | 24°22 | 21°48 | 29°32 | 8°27 | 9°39 | 7°16 | 25°42 | S 29 |
| S 30 | 2 33 5 | 6°36'08 | 16°27 | 4°16 | 0 M 29 | 14°16 | 29°43 | 25°59 | 24°21 | 21°49 | 29°32 | 8°21 | 9°36 | 7°23 | 25°42 | S 30 |
| M31 | 2 37 2 | 7 M 36'16 | 28 Y 40 | 5 M .54 | 1 M 44 | 14 M 51 | 29 Y 35 | 26중 2 | 24≈21 | 21 궁 50 | 29耳31 | 8 П 16 | 9Д33 | 7Ⅱ29 | 25≈41 | M31 |

Delta T = 31.20 sec

NOVEMBER 1667 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | φ | ď | 4 | ħ |)Å(| # | Р | Ŋ | v | ţ | o k | Day |
|------|---------|-------------------|----------------|-----------------|---------------|----------------|----------------|----------------|--------|----------------|--------|----------------|---------------|----------------|--------|------|
| T 1 | 2 40 58 | 8MJ36'26 | 10843 | 7 M 32 | 3 ™ 0 | 15 m 27 | 29°R27 | 26 ට 5 | 24°R21 | 21 る 51 | 29°R30 | 8°R12 | 9∏30 | 7 II 36 | 25°R41 | T 1 |
| W 2 | 2 44 55 | 9°36'38 | 22°38 | 9° 9 | 4°15 | 16° 2 | 29 Y 19 | 26° 8 | 24≈21 | 21°52 | 29耳30 | 8 I I 9 | 9°26 | 7°43 | 25≈41 | W 2 |
| T 3 | 2 48 52 | 10°36'51 | 4 Ⅱ 28 | 10°46 | 5°30 | 16°38 | 29°11 | 26°11 | 24°D21 | 21°53 | 29°29 | 8°D 8 | 9°23 | 7°49 | 25°41 | T 3 |
| F 4 | 2 52 48 | 11°37'07 | 16°15 | 12°22 | 6°46 | 17°13 | 29° 4 | 26°15 | 24°21 | 21°54 | 29°28 | 8° 8 | 9°20 | 7°56 | 25°41 | F 4 |
| S 5 | 2 56 45 | 12°37'25 | 28° 2 | 13°58 | 8° 1 | 17°49 | 28°56 | 26°18 | 24°21 | 21°55 | 29°27 | 8° 9 | 9°17 | 8° 3 | 25°D40 | S 5 |
| S 6 | 3 0 41 | 13°37'44 | 9952 | 15°34 | 9°16 | 18°24 | 28°48 | 26°22 | 24°21 | 21°56 | 29°27 | 8°11 | 9°14 | 8° 9 | 25°40 | S 6 |
| M 7 | 3 4 38 | 14°38'05 | 21°50 | 17°10 | 10°32 | 18°59 | 28°41 | 26°25 | 24°21 | 21°57 | 29°26 | 8°13 | 9°11 | 8°16 | 25°41 | M 7 |
| T 8 | 3 8 34 | 15°38'29 | 4 Ω 0 | 18°45 | 11°47 | 19°35 | 28°33 | 26°29 | 24°21 | 21°58 | 29°25 | 8°14 | 9° 7 | 8°23 | 25°41 | T 8 |
| W 9 | 3 12 31 | 16°38'54 | 16°27 | 20°19 | 13° 2 | 20°10 | 28°26 | 26°33 | 24°22 | 22° 0 | 29°24 | 8°R15 | 9° 4 | 8°29 | 25°41 | W 9 |
| T 10 | 3 16 28 | 17°39'21 | 29°15 | 21°54 | 14°18 | 20°45 | 28°19 | 26°37 | 24°22 | 22° 1 | 29°23 | 8°14 | 9° 1 | 8°36 | 25°41 | T 10 |
| F 11 | 3 20 24 | 18°39'50 | 12 m 28 | 23°28 | 15°33 | 21°20 | 28°11 | 26°41 | 24°22 | 22° 2 | 29°22 | 8°13 | 8°58 | 8°42 | 25°41 | F 11 |
| S 12 | 3 24 21 | 19°40'21 | 26° 9 | 25° 2 | 16°49 | 21°55 | 28° 4 | 26°45 | 24°23 | 22° 3 | 29°22 | 8°11 | 8°55 | 8°49 | 25°42 | S 12 |
| S 13 | 3 28 17 | 20°40'53 | 10 ≏ 17 | 26°36 | 18° 4 | 22°30 | 27°57 | 26°49 | 24°23 | 22° 5 | 29°21 | 8° 8 | 8°51 | 8°56 | 25°42 | S 13 |
| M14 | 3 32 14 | 21°41'28 | 24°52 | 28° 9 | 19°20 | 23° 5 | 27°51 | 26°53 | 24°24 | 22° 6 | 29°20 | 8° 6 | 8°48 | 9° 2 | 25°43 | M14 |
| T 15 | 3 36 10 | 22°42'04 | 9 M .46 | 29°43 | 20°35 | 23°40 | 27°44 | 26°57 | 24°24 | 22° 7 | 29°19 | 8° 4 | 8°45 | 9° 9 | 25°43 | T 15 |
| W16 | 3 40 7 | 23°42'41 | 24°54 | 1 ₹ 16 | 21°50 | 24°15 | 27°37 | 27° 1 | 24°25 | 22° 9 | 29°18 | 8° 3 | 8°42 | 9°16 | 25°44 | W16 |
| T 17 | 3 44 3 | 24°43'21 | 10 ∡ 6 | 2°49 | 23° 6 | 24°49 | 27°31 | 27° 6 | 24°25 | 22°10 | 29°17 | 8°D 3 | 8°39 | 9°22 | 25°45 | T 17 |
| F 18 | 3 48 0 | 25°44'01 | 2 <u>5</u> °11 | 4°21 | 24°21 | 25°24 | 27°25 | 27°10 | 24°26 | 22°11 | 29°16 | 8° 3 | 8°36 | 9°29 | 25°45 | F 18 |
| S 19 | 3 51 57 | 26°44'43 | 10중 2 | 5°54 | 25°37 | 25°59 | 27°18 | 27°15 | 24°27 | 22°13 | 29°15 | 8° 4 | 8°32 | 9°36 | 25°46 | S 19 |
| S 20 | 3 55 53 | 27°45'26 | 24°32 | 7°26 | 26°52 | 26°33 | 27°12 | 27°20 | 24°28 | 22°14 | 29°14 | 8° 5 | 8°29 | 9°42 | 25°47 | S 20 |
| M21 | 3 59 50 | 28°46'10 | 8 ≈ 38 | 8°59 | 28° 8 | 27° 8 | 27° 7 | 27°24 | 24°29 | 22°16 | 29°13 | 8° 6 | 8°26 | 9°49 | 25°48 | M21 |
| T 22 | 4 3 46 | 29°46'55 | 22°19 | 10°31 | 29°23 | 27°42 | 27° 1 | 27°29 | 24°30 | 22°17 | 29°12 | 8° 6 | 8°23 | 9°56 | 25°49 | T 22 |
| W23 | 4 7 43 | 0 ₮ 47'41 | 5) 36 | 12° 2 | 0 ∡ 39 | 28°16 | 26°55 | 27°34 | 24°31 | 22°19 | 29°11 | 8°R 6 | 8°20 | 10° 2 | 25°50 | W23 |
| T 24 | 4 11 39 | 1°48'28 | 18°32 | 13°34 | 1°54 | 28°50 | 26°50 | 27°39 | 24°32 | 22°21 | 29°10 | 8° 6 | 8°17 | 10° 9 | 25°51 | T 24 |
| F 25 | 4 15 36 | 2°49'16 | 1 Υ 8 | 15° 6 | 3°10 | 29°25 | 26°45 | 27°44 | 24°33 | 22°22 | 29° 9 | 8° 5 | 8°13 | 10°16 | 25°52 | F 25 |
| S 26 | 4 19 32 | 3°50'05 | 13°29 | 16°37 | 4°25 | 29°59 | 26°40 | 27°49 | 24°34 | 22°24 | 29° 8 | 8° 5 | 8°10 | 10°22 | 25°53 | S 26 |
| S 27 | 4 23 29 | 4°50'55 | 25°39 | 18° 8 | 5°41 | 0 亞 33 | 26°35 | 27°54 | 24°35 | 22°25 | 29° 7 | 8° 4 | 8° 7 | 10°29 | 25°55 | S 27 |
| M28 | 4 27 26 | 5°51'46 | 7 8 39 | 19°39 | 6°56 | 1° 7 | 26°30 | 27°59 | 24°36 | 22°27 | 29° 6 | 8° 4 | 8° 4 | 10°35 | 25°56 | M28 |
| T 29 | 4 31 22 | 6°52'38 | 19°32 | 21° 9 | 8°12 | 1°41 | 26°26 | 28° 5 | 24°37 | 22°29 | 29° 5 | 8° 4 | 8° 1 | 10°42 | 25°58 | T 29 |
| W30 | 4 35 19 | 7 ₹ 753'31 | 1 Ⅱ 22 | 22 × 740 | 9 ∡ 27 | 2 ≏ 14 | 26 Y 22 | 28 궁 10 | 24≈39 | 22 궁 31 | 29耳 3 | 8°D 4 | 7 Ⅱ 57 | 10 Ⅱ 49 | 25≈59 | W30 |

Delta T = 31.14 sec

Greg. Calendar

| DECEMBER 1667 GC | 00:00 UT |
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| DELEMBER 100/ GL | 00:00 01 |

| Day | Sid.t | 0 | D | ğ | · | S | 4 | ħ | ᡟ | 并 | Р | £ | ය | Ç | ę, | Day |
|------|---------|-------------------|-----------------|----------------|-----------------|----------------|----------------|----------------|-------|----------------|--------|----------------|---------------|----------------|-------|------|
| T 1 | 4 39 15 | 8 ₹ 154'24 | 13 II 10 | 24 ×7 9 | 10 ∡ 142 | 2 ≏ 48 | 26°R17 | 28 궁 16 | 24≈40 | 22 云 32 | 29°R 2 | 8°R 4 | 7 Ⅱ 54 | 10耳55 | 26≈ 1 | T 1 |
| F 2 | 4 43 12 | 9°55'19 | 24°58 | 25°39 | 11°58 | 3°22 | 26 Y 14 | 28°21 | 24°42 | 22°34 | 29Ⅱ 1 | 8 I I 4 | 7°51 | 11° 2 | 26° 2 | F 2 |
| S 3 | 4 47 8 | 10°56'16 | 6948 | 27° 8 | 13°13 | 3°55 | 26°10 | 28°27 | 24°43 | 22°36 | 29° 0 | 8° 3 | 7°48 | 11° 9 | 26° 4 | S 3 |
| S 4 | 4 51 5 | 11°57'13 | 18°44 | 28°36 | 14°29 | 4°29 | 26° 6 | 28°32 | 24°44 | 22°38 | 28°59 | 8° 3 | 7°45 | 11°15 | 26° 5 | S 4 |
| M 5 | 4 55 1 | 12°58'11 | 0 Ω 47 | 0중 3 | 15°44 | 5° 2 | 26° 3 | 28°38 | 24°46 | 22°40 | 28°58 | 8° 2 | 7°42 | 11°22 | 26° 7 | M 5 |
| T 6 | 4 58 58 | 13°59'10 | 13° 1 | 1°30 | 17° 0 | 5°35 | 26° 0 | 28°43 | 24°48 | 22°41 | 28°57 | 8° 2 | 7°38 | 11°29 | 26° 9 | T 6 |
| W 7 | 5 2 55 | 15° 0'11 | 25°28 | 2°56 | 18°15 | 6° 9 | 25°57 | 28°49 | 24°49 | 22°43 | 28°55 | 8° 1 | 7°35 | 11°35 | 26°11 | W 7 |
| T 8 | 5 6 5 1 | 16° 1'12 | 8 m 13 | 4°20 | 19°31 | 6°42 | 25°54 | 28°55 | 24°51 | 22°45 | 28°54 | 8° 1 | 7°32 | 11°42 | 26°13 | T 8 |
| F 9 | 5 10 48 | 17° 2'14 | 21°19 | 5°43 | 20°46 | 7°15 | 25°51 | 29° 1 | 24°53 | 22°47 | 28°53 | 8°D 0 | 7°29 | 11°49 | 26°15 | F 9 |
| S 10 | 5 14 44 | 18° 3'18 | 4 ≏ 48 | 7° 4 | 22° 2 | 7°48 | 25°49 | 29° 7 | 24°54 | 22°49 | 28°52 | 8° 1 | 7°26 | 11°55 | 26°17 | S 10 |
| S 11 | 5 18 41 | 19° 4'22 | 18°43 | 8°23 | 23°17 | 8°21 | 25°47 | 29°13 | 24°56 | 22°51 | 28°51 | 8° 2 | 7°22 | 12° 2 | 26°19 | S 11 |
| M12 | 5 22 37 | 20° 5'27 | 3 m 3 | 9°40 | 24°33 | 8°53 | 25°45 | 29°19 | 24°58 | 22°53 | 28°50 | 8° 3 | 7°19 | 12° 8 | 26°21 | M12 |
| T 13 | 5 26 34 | 21° 6'34 | 17°46 | 10°54 | 25°48 | 9°26 | 25°43 | 29°25 | 25° 0 | 22°55 | 28°48 | 8° 4 | 7°16 | 12°15 | 26°23 | T 13 |
| W14 | 5 30 30 | 22° 7'41 | 2 , 748 | 12° 5 | 27° 4 | 9°59 | 25°42 | 29°31 | 25° 2 | 22°57 | 28°47 | 8°R 4 | 7°13 | 12°22 | 26°25 | W14 |
| T 15 | 5 34 27 | 23° 8'49 | 17°59 | 13°13 | 28°19 | 10°31 | 25°40 | 29°37 | 25° 4 | 22°59 | 28°46 | 8° 4 | 7°10 | 12°28 | 26°28 | T 15 |
| F 16 | 5 38 24 | 24° 9'57 | 3 る 12 | 14°16 | 29°35 | 11° 4 | 25°39 | 29°43 | 25° 6 | 23° 1 | 28°45 | 8° 3 | 7° 7 | 12°35 | 26°30 | F 16 |
| S 17 | 5 42 20 | 25°11'06 | 18°15 | 15°14 | 0 궁 50 | 11°36 | 25°38 | 29°50 | 25° 8 | 23° 3 | 28°44 | 8° 1 | 7° 3 | 12°42 | 26°32 | S 17 |
| S 18 | 5 46 17 | 26°12'16 | 3≈ 0 | 16° 6 | 2° 6 | 12° 8 | 25°38 | 29°56 | 25°10 | 23° 5 | 28°42 | 7°59 | 7° 0 | 12°48 | 26°35 | S 18 |
| M19 | 5 50 13 | 27°13'25 | 17°22 | 16°52 | 3°21 | 12°40 | 25°37 | 0≈ 2 | 25°12 | 23° 7 | 28°41 | 7°56 | 6°57 | 12°55 | 26°37 | M19 |
| T 20 | 5 54 10 | 28°14'34 | 1) (15 | 17°31 | 4°36 | 13°12 | 25°37 | 0° 9 | 25°15 | 23° 9 | 28°40 | 7°54 | 6°54 | 13° 2 | 26°40 | T 20 |
| W21 | 5 58 6 | 29°15'44 | 14°41 | 18° 1 | 5°52 | 13°44 | 25°D37 | 0°15 | 25°17 | 23°12 | 28°39 | 7°52 | 6°51 | 13° 8 | 26°43 | W21 |
| T 22 | 6 2 3 | 0 궁 16'53 | 27°40 | 18°22 | 7° 7 | 14°15 | 25°37 | 0°22 | 25°19 | 23°14 | 28°38 | 7°D51 | 6°48 | 13°15 | 26°45 | T 22 |
| F 23 | 6 5 59 | 1°18'03 | 10 Y 16 | 18°33 | 8°23 | 14°47 | 25°37 | 0°28 | 25°22 | 23°16 | 28°36 | 7°52 | 6°44 | 13°22 | 26°48 | F 23 |
| S 24 | 6 9 56 | 2°19'12 | 22°33 | 18°R33 | 9°38 | 15°18 | 25°38 | 0°35 | 25°24 | 23°18 | 28°35 | 7°53 | 6°41 | 13°28 | 26°51 | S 24 |
| S 25 | 6 13 53 | 3°20'21 | 4 8 36 | 18°22 | 10°54 | 15°50 | 25°39 | 0°41 | 25°26 | 23°20 | 28°34 | 7°55 | 6°38 | 13°35 | 26°53 | S 25 |
| M26 | 6 17 49 | 4°21'31 | 16°30 | 17°59 | 12° 9 | 16°21 | 25°40 | 0°48 | 25°29 | 23°22 | 28°33 | 7°56 | 6°35 | 13°42 | 26°56 | M26 |
| T 27 | 6 21 46 | 5°22'40 | 28°18 | 17°25 | 13°24 | 16°52 | 25°41 | 0°55 | 25°31 | 23°24 | 28°31 | 7°58 | 6°32 | 13°48 | 26°59 | T 27 |
| W28 | 6 25 42 | 6°23'49 | 10耳 5 | 16°38 | 14°40 | 17°23 | 25°42 | 1° 1 | 25°34 | 23°27 | 28°30 | 7°R58 | 6°29 | 13°55 | 27° 2 | W28 |
| T 29 | 6 29 39 | 7°24'58 | 21°53 | 15°42 | 15°55 | 17°54 | 25°44 | 1° 8 | 25°36 | 23°29 | 28°29 | 7°57 | 6°25 | 14° 1 | 27° 5 | T 29 |
| F 30 | 6 33 35 | 8°26'07 | 39545 | 14°36 | 17°11 | 18°25 | 25°46 | 1°15 | 25°39 | 23°31 | 28°28 | 7°55 | 6°22 | 14° 8 | 27° 8 | F 30 |
| S 31 | 6 37 32 | 9 ප 27'16 | 159543 | 13 る 22 | 18 る 26 | 18 ≏ 55 | 25 Y 48 | 1≈22 | 25≈41 | 23 云 33 | 28Ⅱ27 | 7 耳 50 | 6耳19 | 14 Ⅱ 15 | 27≈11 | S 31 |

Delta T = 31.09 sec

JANUARY 1668 GC 00:00 UT

| Day Sidt C D D Q Q C A T D D Q Q C D D D D D D D D D | | | | | | | | | | | | | | | | | |
|--|------|---------|----------|---------------|----------------|-------|-------|----------------|------|-------|----------------|----------------|---------------|---------------|----------------|-------|------|
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Day | Sid.t | 0 | D | φ | · | ð | 4 | ħ |)ұ(| 卉 | В | S. | ಭ | Ç | Ŷ, | Day |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | - | | | - | | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | | | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | - | | | | | | | | | | | | | | | | - |
| F 6 7 1 11 1 5°3408 | | | | | | | | | - | | | _ | | | | | |
| \$\begin{array}{c c c c c c c c c c c c c c c c c c c | - | | | | | _ | - | - | | | _ | - | - | | - | | |
| \$\begin{array}{c c c c c c c c c c c c c c c c c c c | - | | | | | | | _ | _ | | | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | S 7 | 7 5 8 | 16°35'17 | 14°28 | 4°50 | 2/013 | 22°25 | 26° 7 | 2°10 | 26° 1 | 23°49 | 28°19 | 7°D18 | 5°57 | 15° 1 | 27°33 | S 7 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | S 8 | 7 9 4 | | | | | | - | | | | | 7°18 | 5°54 | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | - | | | | | 29°44 | - | | | | | | | | | | |
| T12 7 24 51 21°40′59 26°10 2°24 3°30 24°51 26°27 2°45 26°15 24° 0 28°13 7°20 5°41 15°35 27°50 T12 F 13 7 28 47 22°42′07 11ঊ10 2°D22 4°45 25°19 26°32 2°59 26°11 24° 3 28°12 7°16 5°38 15°41 27°54 F 13 S 14 7 32 44 23°43′14 26° 7 2°29 6° 1 25°47 26°36 2°59 26°21 24° 5 28°11 7°10 5°35 15°48 27°57 S 14 S 15 7 36 40 24°44′20 10≈53 2°43 7°16 26°64 26°46 3°13 26°27 24° 9 28° 9 6°55 5°31 15°54 28° 1 S 15 M16 7 40 37 25°45′26 25°20 3° 4 8°31 26°44 3°13 26°27 24° 9 28° 9 6°55 5°38 16° 1 28° 4 M16 T17 | | | | | | | | | _ | | | | - | | - | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | _ | - | | | | - | | | | - | | | |
| \$\begin{array}{c c c c c c c c c c c c c c c c c c c | | | | | | | _ | | | | | | | _ | | | |
| S 15 | - | | | | | - | | | - | | _ | _ | | | _ | | - |
| M16 | S 14 | 7 32 44 | 23°43'14 | 26° 7 | 2°29 | 6° 1 | 25°47 | 26°36 | 2°59 | 26°21 | 24° 5 | 28°11 | 7°10 | 5°35 | 15°48 | 27°57 | S 14 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | S 15 | 7 36 40 | 24°44'20 | 10≈53 | | 7°16 | 26°16 | 26°41 | 3° 6 | 26°24 | | 28°10 | 7° 3 | 5°31 | | | S 15 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | M16 | 7 40 37 | 25°45'26 | | | 8°31 | 26°44 | 26°46 | 3°13 | 26°27 | 24° 9 | 28° 9 | 6°55 | 5°28 | - | 28° 4 | M16 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | T 17 | 7 44 33 | 26°46'31 | | | | | 26°52 | _ | | | | 6°47 | | 16° 8 | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | - | | | | | | | | | - | - | - | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | - | | | | | | | | | | - | | | | | | |
| \$\begin{array}{c c c c c c c c c c c c c c c c c c c | | | | | | | | | - | | - | | | | | | - |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | S 21 | 8 0 20 | 0≈50'40 | 18 0 | 6°14 | 14°47 | 29° 1 | 27°15 | 3°49 | 26°43 | 24°21 | 28° 4 | 6°D32 | 5°12 | 16°34 | 28°23 | S 21 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | S 22 | 8 4 16 | 1°51'39 | 13° 4 | 7° 6 | 16° 2 | 29°27 | 27°21 | 3°56 | 26°46 | 24°23 | 28° 3 | 6°32 | 5° 9 | 16°41 | 28°26 | S 22 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | - | | | | - | -, -, | | | _ | | _ | - | | | | | - |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | - | | | | | | | | | _ | _ | | | | | 1 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | -, | | -, | _ | | | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | - | | | | _ | _ | | | - | | _ | | | | | - | - |
| S 29 8 31 52 8°58'04 6\$\textstyle{\Omega}45 14°28 24°48 2°28 28°8 4°46 27°9 24°39 27°56 6°5 4°47 17°28 28°53 S 29 18°58'54 19°16 15°40 26°3 2°53 28°16 4°53 27°13 24°41 27°55 5°54 4°44 17°34 28°57 M30 | | | | - | - | - | | | _ | | | | - | | | | |
| M30 8 35 49 9°58'54 19°16 15°40 26° 3 2°53 28°16 4°53 27°13 24°41 27°55 5°54 4°44 17°34 28°57 M30 | S 28 | 8 27 56 | 7°57'12 | 24°25 | 13°17 | 23°33 | 2° 3 | 28° 1 | 4°39 | 27° 6 | 24°37 | 27°57 | 6°16 | 4°50 | 17°21 | 28°49 | S 28 |
| | S 29 | 8 31 52 | 8°58'04 | 6 Ω 45 | 14°28 | 24°48 | 2°28 | 28° 8 | 4°46 | 27° 9 | 24°39 | 27°56 | 6° 5 | 4°47 | 17°28 | 28°53 | S 29 |
| T31 83945 10≈59'43 2mp 0 16♂54 27≈18 3m18 28Y23 5≈ 1 27≈16 24♂43 27∏54 5∏41 4∏41 17∏41 29≈ 1 T31 | | | | | | | | | 4°53 | | | | | | | | |
| | T 31 | 8 39 45 | 10≈59'43 | 2 Mg 0 | 16 ප 54 | 27≈18 | 3M18 | 28 Y 23 | 5≈ 1 | 27≈16 | 24 중 43 | 27 Ⅱ 54 | 5 Ⅱ 41 | 4 Ⅱ 41 | 17 ∏ 41 | 29≈ 1 | T 31 |

Delta T = 31.03 sec

Greg. Calendar

FEBRUARY 1668 GC 00:00 UT

| Day | Sid.t | 0 | D | φ. | φ | δ | 4 | ħ | ᡟ | ¥ | Р | S. | ය | Ç | 8 | Day |
|------|----------|-------------------|----------------|---------------|---------------|----------------|----------------|------|-------|----------------|----------------|---------------|---------------|----------------|---------------|------|
| W 1 | 8 43 42 | 12≈ 0'31 | 14 M 57 | 18 궁 9 | 28≈33 | 3 M .42 | 28 Y 31 | 5≈ 8 | 27≈19 | 24 궁 45 | 27°R54 | 5°R30 | 4 Ⅱ 37 | 17 Ⅱ 48 | 29≈ 5 | W 1 |
| T 2 | 8 47 38 | 13° 1'18 | 28° 4 | 19°26 | 29°48 | 4° 6 | 28°39 | 5°15 | 27°23 | 24°48 | 27 Ⅱ 53 | 5 Ⅱ 21 | 4°34 | 17°54 | 29° 9 | T 2 |
| F 3 | 8 51 35 | 14° 2'04 | 11 ≏ 23 | 20°44 | 1 米 2 | 4°30 | 28°47 | 5°22 | 27°26 | 24°50 | 27°52 | 5°14 | 4°31 | 18° 1 | 29°13 | F 3 |
| S 4 | 8 55 31 | 15° 2'48 | 24°53 | 22° 4 | 2°17 | 4°54 | 28°55 | 5°29 | 27°29 | 24°52 | 27°51 | 5° 9 | 4°28 | 18° 7 | 29°17 | S 4 |
| S 5 | 8 59 28 | 16° 3'32 | 8 M .35 | 23°25 | 3°32 | 5°17 | 29° 4 | 5°36 | 27°33 | 24°54 | 27°50 | 5° 8 | 4°25 | 18°14 | 29°21 | S 5 |
| M 6 | 9 3 25 | 17° 4'15 | 22°30 | 24°48 | 4°47 | 5°40 | 29°12 | 5°43 | 27°36 | 24°56 | 27°50 | 5°D 8 | 4°21 | 18°21 | 29°25 | M 6 |
| T 7 | 9 7 21 | 18° 4'57 | 6 ₮ 37 | 26°11 | 6° 2 | 6° 2 | 29°21 | 5°50 | 27°40 | 24°58 | 27°49 | 5°R 8 | 4°18 | 18°27 | 29°29 | T 7 |
| W 8 | 9 11 18 | 19° 5'38 | 20°55 | 27°35 | 7°17 | 6°25 | 29°29 | 5°57 | 27°43 | 25° 1 | 27°48 | 5° 7 | 4°15 | 18°34 | 29°33 | W 8 |
| T 9 | 9 15 14 | 20° 6'17 | 5 る 24 | 29° 1 | 8°31 | 6°47 | 29°38 | 6° 4 | 27°47 | 25° 3 | 27°48 | 5° 4 | 4°12 | 18°41 | 29°37 | T 9 |
| F 10 | 9 19 11 | 21° 6'56 | 19°59 | 0≈28 | 9°46 | 7° 8 | 29°47 | 6°11 | 27°50 | 25° 5 | 27°47 | 4°58 | 4° 9 | 18°47 | 29°41 | F 10 |
| S 11 | 9 23 7 | 22° 7'33 | 4≈33 | 1°55 | 11° 1 | 7°30 | 29°56 | 6°18 | 27°53 | 25° 7 | 27°46 | 4°49 | 4° 6 | 18°54 | 29°45 | S 11 |
| S 12 | 9 27 4 | 23° 8'09 | 19° 2 | 3°24 | 12°16 | 7°51 | 0 8 6 | 6°25 | 27°57 | 25° 9 | 27°46 | 4°38 | 4° 2 | 19° 1 | 29°49 | S 12 |
| M13 | 9 31 0 | 24° 8'43 | 3 ∺ 16 | 4°54 | 13°30 | 8°11 | 0°15 | 6°32 | 28° 0 | 25°11 | 27°45 | 4°26 | 3°59 | 19° 7 | 29°53 | M13 |
| T 14 | 9 34 57 | 25° 9'15 | 17°12 | 6°24 | 14°45 | 8°32 | 0°25 | 6°39 | 28° 4 | 25°13 | 27°44 | 4°14 | 3°56 | 19°14 | 29°57 | T 14 |
| W15 | 9 38 54 | 26° 9'46 | 0 Υ 44 | 7°56 | 16° 0 | 8°52 | 0°34 | 6°46 | 28° 7 | 25°15 | 27°44 | 4° 3 | 3°53 | 19°21 | 0 ∀ 1 | W15 |
| T 16 | 9 42 50 | 27°10'15 | 13°51 | 9°29 | 17°14 | 9°11 | 0°44 | 6°53 | 28°11 | 25°17 | 27°43 | 3°54 | 3°50 | 19°27 | 0° 5 | T 16 |
| F 17 | 9 46 47 | 28°10'42 | 26°34 | 11° 2 | 18°29 | 9°30 | 0°54 | 7° 0 | 28°14 | 25°19 | 27°43 | 3°48 | 3°46 | 19°34 | 0° 9 | F 17 |
| S 18 | 9 50 43 | 29°11'07 | 8 8 56 | 12°37 | 19°43 | 9°49 | 1° 4 | 7° 7 | 28°18 | 25°21 | 27°42 | 3°45 | 3°43 | 19°41 | 0°13 | S 18 |
| S 19 | 9 54 40 | 0) 11'31 | 21° 2 | 14°12 | 20°58 | 10° 8 | 1°14 | 7°13 | 28°21 | 25°23 | 27°42 | 3°44 | 3°40 | 19°47 | 0°17 | S 19 |
| M20 | 9 58 36 | 1°11'52 | 2耳56 | 15°49 | 22°12 | 10°26 | 1°24 | 7°20 | 28°24 | 25°25 | 27°41 | 3°44 | 3°37 | 19°54 | 0°22 | M20 |
| T 21 | 10 2 33 | 2°12'12 | 14°44 | 17°26 | 23°27 | 10°43 | 1°35 | 7°27 | 28°28 | 25°27 | 27°41 | 3°43 | 3°34 | 20° 0 | 0°26 | T 21 |
| W22 | 10 6 29 | 3°12'29 | 26°32 | 19° 5 | 24°41 | 11° 0 | 1°45 | 7°34 | 28°31 | 25°29 | 27°40 | 3°42 | 3°31 | 20° 7 | 0°30 | W22 |
| T 23 | 10 10 26 | 4°12'45 | 8925 | 20°44 | 25°56 | 11°17 | 1°56 | 7°40 | 28°35 | 25°31 | 27°40 | 3°38 | 3°27 | 20°14 | 0°34 | T 23 |
| F 24 | 10 14 23 | 5°12'58 | 20°27 | 22°24 | 27°10 | 11°33 | 2° 6 | 7°47 | 28°38 | 25°33 | 27°40 | 3°32 | 3°24 | 20°20 | 0°38 | F 24 |
| S 25 | 10 18 19 | 6°13'10 | 2 Ω 42 | 24° 6 | 28°24 | 11°49 | 2°17 | 7°53 | 28°42 | 25°34 | 27°39 | 3°23 | 3°21 | 20°27 | 0°42 | S 25 |
| S 26 | 10 22 16 | 7°13'19 | 15°13 | 25°48 | 29°38 | 12° 4 | 2°28 | 8° 0 | 28°45 | 25°36 | 27°39 | 3°12 | 3°18 | 20°34 | 0°46 | S 26 |
| M27 | 10 26 12 | 8°13'27 | 28° 1 | 27°32 | 0 Υ 53 | 12°19 | 2°39 | 8° 7 | 28°49 | 25°38 | 27°39 | 2°59 | 3°15 | 20°40 | 0°50 | M27 |
| T 28 | 10 30 9 | 9°13'33 | 11 Mp 5 | 29°17 | 2° 7 | 12°34 | 2°50 | 8°13 | 28°52 | 25°40 | 27°38 | 2°45 | 3°12 | 20°47 | 0°54 | T 28 |
| W29 | 10 34 5 | 10 ¥ 13'37 | 24 Mp 24 | 1 米 2 | 3 Υ 21 | 12 M 48 | 3 8 1 | 8≈19 | 28≈55 | 25 る 42 | 27 Ⅲ 38 | 2Ⅲ32 | 3 II 8 | 20 Ⅲ 54 | 0 ∺ 58 | W29 |

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MARCH 1668 GC 00:00 UT

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|------|----------|-------------------|------------------|----------------|---------------|----------------|---------------|-------|---------------|----------------|----------------|----------------|---------------|---------------|---------------|------|
| T 1 | 10 38 2 | 11 米 13'38 | 7 ≙ 56 | 2) (49 | 4 Υ35 | 13 M 1 | 3 8 13 | 8≈26 | 28≈59 | 25 る 43 | 27°R38 | 2°R22 | 3 I 5 | 21 I 0 | 1 米 2 | T 1 |
| F 2 | 10 41 58 | 12°13'39 | 21°38 | 4°37 | 5°49 | 13°14 | 3°24 | 8°32 | 29° 2 | 25°45 | 27 Ⅲ 38 | 2 Ⅱ 14 | 3° 2 | 21° 7 | 1° 6 | F 2 |
| S 3 | 10 45 55 | 13°13'37 | 5 M 27 | 6°26 | 7° 3 | 13°26 | 3°35 | 8°39 | 29° 6 | 25°47 | 27°37 | 2° 9 | 2°59 | 21°14 | 1°10 | S 3 |
| S 4 | 10 49 52 | 14°13'34 | 19°23 | 8°16 | 8°17 | 13°38 | 3°47 | 8°45 | 29° 9 | 25°48 | 27°37 | 2° 7 | 2°56 | 21°20 | 1°14 | S 4 |
| M 5 | 10 53 48 | 15°13'30 | 3 . ₹23 | 10° 7 | 9°31 | 13°50 | 3°59 | 8°51 | 29°12 | 25°50 | 27°37 | 2°D 6 | 2°52 | 21°27 | 1°18 | M 5 |
| T 6 | 10 57 45 | 16°13'23 | 17°27 | 12° 0 | 10°45 | 14° 0 | 4°10 | 8°57 | 29°16 | 25°52 | 27°37 | 2°R 6 | 2°49 | 21°34 | 1°22 | T 6 |
| W 7 | 11 141 | 17°13'16 | 1 る 35 | 13°53 | 11°59 | 14°11 | 4°22 | 9° 3 | 29°19 | 25°53 | 27°37 | 2° 6 | 2°46 | 21°40 | 1°26 | W 7 |
| T 8 | 11 5 38 | 18°13'06 | 15°44 | 15°48 | 13°13 | 14°20 | 4°34 | 9°10 | 29°22 | 25°55 | 27°37 | 2° 3 | 2°43 | 21°47 | 1°30 | T 8 |
| F 9 | 11 9 34 | 19°12'55 | 29°54 | 17°43 | 14°26 | 14°29 | 4°46 | 9°16 | 29°26 | 25°56 | 27°37 | 1°58 | 2°40 | 21°54 | 1°34 | F 9 |
| S 10 | 11 13 31 | 20°12'42 | 14≈ 2 | 19°40 | 15°40 | 14°38 | 4°58 | 9°22 | 29°29 | 25°58 | 27°37 | 1°50 | 2°37 | 22° 0 | 1°38 | S 10 |
| S 11 | 11 17 27 | 21°12'27 | 28° 3 | 21°38 | 16°54 | 14°45 | 5°10 | 9°28 | 29°32 | 25°59 | 27°D37 | 1°40 | 2°33 | 22° 7 | 1°42 | S 11 |
| M12 | 11 21 24 | 22°12'11 | 11) (53 | 23°36 | 18° 7 | 14°53 | 5°22 | 9°33 | 29°35 | 26° 1 | 27°37 | 1°28 | 2°30 | 22°14 | 1°45 | M12 |
| T 13 | 11 25 21 | 23°11'52 | 25°28 | 25°35 | 19°21 | 14°59 | 5°35 | 9°39 | 29°39 | 26° 2 | 27°37 | 1°17 | 2°27 | 22°20 | 1°49 | T 13 |
| W14 | 11 29 17 | 24°11'31 | 8 Ƴ 46 | 27°35 | 20°35 | 15° 5 | 5°47 | 9°45 | 29°42 | 26° 4 | 27°37 | 1° 6 | 2°24 | 22°27 | 1°53 | W14 |
| T 15 | 11 33 14 | 25°11'08 | 21°44 | 29°36 | 21°48 | 15°10 | 6° 0 | 9°51 | 29°45 | 26° 5 | 27°37 | 0°58 | 2°21 | 22°33 | 1°57 | T 15 |
| F 16 | 11 37 10 | 26°10'43 | 4822 | 1 Y 36 | 23° 2 | 15°15 | 6°12 | 9°57 | 29°48 | 26° 7 | 27°37 | 0°52 | 2°18 | 22°40 | 2° 1 | F 16 |
| S 17 | 11 41 7 | 27°10'16 | 16°42 | 3°37 | 24°15 | 15°18 | 6°25 | 10° 2 | 29°52 | 26° 8 | 27°37 | 0°49 | 2°14 | 22°47 | 2° 5 | S 17 |
| S 18 | 11 45 3 | 28° 9'46 | 28°48 | 5°38 | 25°28 | 15°22 | 6°37 | 10°8 | 29°55 | 26° 9 | 27°37 | 0°D48 | 2°11 | 22°53 | 2° 8 | S 18 |
| M19 | 11 49 0 | 29° 9'15 | 10 Ⅱ 43 | 7°39 | 26°42 | 15°24 | 6°50 | 10°13 | 29°58 | 26°10 | 27°37 | 0°48 | 2° 8 | 23° 0 | 2°12 | M19 |
| T 20 | 11 52 56 | 0 Υ 8'41 | 22°32 | 9°38 | 27°55 | 15°26 | 7° 3 | 10°19 | 0 ∺ 1 | 26°12 | 27°38 | 0°49 | 2° 5 | 23° 7 | 2°16 | T 20 |
| W21 | 11 56 53 | 1° 8'05 | 49521 | 11°37 | 29° 8 | 15°27 | 7°16 | 10°24 | 0° 4 | 26°13 | 27°38 | 0°R49 | 2° 2 | 23°13 | 2°19 | W21 |
| T 22 | 12 0 50 | 2° 7'26 | 16°15 | 13°35 | 0 8 21 | 15°R27 | 7°28 | 10°29 | 0° 7 | 26°14 | 27°38 | 0°48 | 1°58 | 23°20 | 2°23 | T 22 |
| F 23 | 12 4 46 | 3° 6'45 | 28°20 | 15°31 | 1°34 | 15°27 | 7°41 | 10°35 | 0°10 | 26°15 | 27°38 | 0°44 | 1°55 | 23°27 | 2°27 | F 23 |
| S 24 | 12 8 43 | 4° 6'02 | 10 Ω 39 | 17°25 | 2°47 | 15°26 | 7°54 | 10°40 | 0°13 | 26°16 | 27°39 | 0°39 | 1°52 | 23°33 | 2°30 | S 24 |
| S 25 | 12 12 39 | 5° 5'17 | 23°16 | 19°16 | 4° 0 | 15°24 | 8° 7 | 10°45 | 0°16 | 26°18 | 27°39 | 0°31 | 1°49 | 23°40 | 2°34 | S 25 |
| M26 | 12 16 36 | 6° 4'29 | 6 m)14 | 21° 4 | 5°13 | 15°21 | 8°21 | 10°50 | 0°19 | 26°19 | 27°39 | 0°22 | 1°46 | 23°47 | 2°37 | M26 |
| T 27 | 12 20 32 | 7° 3'39 | 19°33 | 22°50 | 6°26 | 15°18 | 8°34 | 10°55 | 0°22 | 26°20 | 27°40 | 0°13 | 1°43 | 23°53 | 2°41 | T 27 |
| W28 | 12 24 29 | 8° 2'47 | 3 ₾ 11 | 24°31 | 7°39 | 15°13 | 8°47 | 11° 0 | 0°25 | 26°21 | 27°40 | 0° 4 | 1°39 | 24° 0 | 2°44 | W28 |
| T 29 | 12 28 25 | 9° 1'52 | 17° 7 | 26° 8 | 8°52 | 15° 9 | 9° 0 | 11° 5 | 0°28 | 26°22 | 27°40 | 29 8 57 | 1°36 | 24° 7 | 2°48 | T 29 |
| F 30 | 12 32 22 | 10° 0'56 | 1 M .15 | 27°41 | 10° 5 | 15° 3 | 9°13 | 11°10 | 0°31 | 26°23 | 27°41 | 29°51 | 1°33 | 24°13 | 2°51 | F 30 |
| S 31 | 12 36 18 | 10 Y 59'58 | 15 M 31 | 29 Υ 10 | 11817 | 14 M 56 | 9 8 27 | 11≈15 | 0 ∺ 34 | 26 궁 24 | 27 Ⅱ 41 | 29 8 48 | 1 Ⅱ 30 | 24Ⅱ20 | 2 ∺ 55 | S 31 |

Delta T = 30.93 sec

Greg. Calendar

APRIL 1668 GC 00:00 UT

| Day | Sid.t | \odot | 2) | φ | Ŷ | δ | 4 | η | ₩. | 4 | E | 8.19 | 83 | \$ | δ | Day |
|------|----------|-------------------|------------------|---------------|---------------|-----------------|----------------|-------|----------------|----------------|-----------------|----------------|----------------|----------------|---------------|------|
| S 1 | 12 40 15 | 11 Y 58'58 | 29 M 50 | 0 8 33 | 12830 | 14°R49 | 9 8 40 | 11≈19 | 0) €36 | 26 궁 24 | 27 II 42 | 29°D48 | 1 Ⅲ 27 | 24 Ⅲ 27 | 2) 58 | S 1 |
| M 2 | 12 44 12 | 12°57'57 | 14 × 9 | 1°51 | 13°42 | 14 M .41 | 9°54 | 11°24 | 0°39 | 26°25 | 27°42 | 29 8 48 | 1°23 | 24°33 | 3° 1 | M 2 |
| T 3 | 12 48 8 | 13°56'53 | 28°24 | 3° 4 | 14°55 | 14°32 | 10° 7 | 11°28 | 0°42 | 26°26 | 27°43 | 29°49 | 1°20 | 24°40 | 3° 5 | T 3 |
| W 4 | 12 52 5 | 14°55'48 | 12 る 34 | 4°11 | 16° 7 | 14°23 | 10°21 | 11°33 | 0°45 | 26°27 | 27°43 | 29°R50 | 1°17 | 24°47 | 3°8 | W 4 |
| T 5 | 12 56 1 | 15°54'41 | 26°38 | 5°12 | 17°19 | 14°13 | 10°34 | 11°37 | 0°47 | 26°28 | 27°44 | 29°50 | 1°14 | 24°53 | 3°11 | T 5 |
| F 6 | 12 59 58 | 16°53'33 | 10≈33 | 6° 7 | 18°32 | 14° 2 | 10°48 | 11°41 | 0°50 | 26°28 | 27°44 | 29°47 | 1°11 | 25° 0 | 3°14 | F 6 |
| S 7 | 13 3 54 | 17°52'22 | 24°19 | 6°56 | 19°44 | 13°50 | 11° 2 | 11°46 | 0°53 | 26°29 | 27°45 | 29°43 | 1° 8 | 25° 7 | 3°18 | S 7 |
| S 8 | 13 7 51 | 18°51'10 | 7) €54 | 7°39 | 20°56 | 13°37 | 11°15 | 11°50 | 0°55 | 26°30 | 27°46 | 29°38 | 1° 4 | 25°13 | 3°21 | S 8 |
| M 9 | 13 11 47 | 19°49'56 | 21°18 | 8°16 | 22° 8 | 13°24 | 11°29 | 11°54 | 0°58 | 26°30 | 27°46 | 29°31 | 1° 1 | 25°20 | 3°24 | M 9 |
| T 10 | 13 15 44 | 20°48'40 | 4 Υ28 | 8°46 | 23°20 | 13°10 | 11°43 | 11°58 | 1° 0 | 26°31 | 27°47 | 29°24 | 0°58 | 25°27 | 3°27 | T 10 |
| W11 | 13 19 41 | 21°47'23 | 17°24 | 9°11 | 24°32 | 12°55 | 11°57 | 12° 2 | 1° 3 | 26°32 | 27°48 | 29°18 | 0°55 | 25°33 | 3°30 | W11 |
| T 12 | 13 23 37 | 22°46'03 | 0 ප 5 | 9°29 | 25°44 | 12°40 | 12°10 | 12° 6 | 1° 5 | 26°32 | 27°48 | 29°13 | 0°52 | 25°40 | 3°33 | T 12 |
| F 13 | 13 27 34 | 23°44'41 | 12°31 | 9°40 | 26°56 | 12°24 | 12°24 | 12° 9 | 1°8 | 26°33 | 27°49 | 29°10 | 0°49 | 25°47 | 3°36 | F 13 |
| S 14 | 13 31 30 | 24°43'18 | 24°44 | 9°R46 | 28° 8 | 12° 7 | 12°38 | 12°13 | 1°10 | 26°33 | 27°50 | 29°D 9 | 0°45 | 25°53 | 3°39 | S 14 |
| S 15 | 13 35 27 | 25°41'52 | 6 Ⅱ 45 | 9°45 | 29°19 | 11°50 | 12°52 | 12°17 | 1°12 | 26°34 | 27°51 | 29° 9 | 0°42 | 26° 0 | 3°41 | S 15 |
| M16 | 13 39 23 | 26°40'24 | 18°39 | 9°39 | 0 Ⅲ 31 | 11°32 | 13° 6 | 12°20 | 1°15 | 26°34 | 27°51 | 29°10 | 0°39 | 26° 6 | 3°44 | M16 |
| T 17 | 13 43 20 | 27°38'55 | 0ණ28 | 9°28 | 1°43 | 11°14 | 13°20 | 12°23 | 1°17 | 26°34 | 27°52 | 29°12 | 0°36 | 26°13 | 3°47 | T 17 |
| W18 | 13 47 16 | 28°37'23 | 12°17 | 9°11 | 2°54 | 10°55 | 13°34 | 12°27 | 1°19 | 26°35 | 27°53 | 29°14 | 0°33 | 26°20 | 3°50 | W18 |
| T 19 | 13 51 13 | 29°35'49 | 24°11 | 8°49 | 4° 5 | 10°36 | 13°48 | 12°30 | 1°21 | 26°35 | 27°54 | 29°R15 | 0°29 | 26°26 | 3°52 | T 19 |
| F 20 | 13 55 10 | 0 8 34'12 | 6 Ω 15 | 8°23 | 5°17 | 10°16 | 14° 2 | 12°33 | 1°23 | 26°35 | 27°55 | 29°15 | 0°26 | 26°33 | 3°55 | F 20 |
| S 21 | 13 59 6 | 1°32'34 | 18°34 | 7°54 | 6°28 | 9°56 | 14°16 | 12°36 | 1°26 | 26°36 | 27°56 | 29°13 | 0°23 | 26°40 | 3°58 | S 21 |
| S 22 | 14 3 3 | 2°30'54 | 1 m p 1 1 | 7°21 | 7°39 | 9°35 | 14°30 | 12°39 | 1°28 | 26°36 | 27°56 | 29°11 | 0°20 | 26°46 | 4° 0 | S 22 |
| M23 | 14 6 59 | 3°29'11 | 14°11 | 6°46 | 8°50 | 9°15 | 14°44 | 12°42 | 1°30 | 26°36 | 27°57 | 29° 8 | 0°17 | 26°53 | 4° 3 | M23 |
| T 24 | 14 10 56 | 4°27'26 | 27°35 | 6° 8 | 10° 1 | 8°53 | 14°58 | 12°45 | 1°32 | 26°36 | 27°58 | 29° 4 | 0°14 | 27° 0 | 4° 5 | T 24 |
| W25 | 14 14 52 | 5°25'40 | 11 ≏ 24 | 5°30 | 11°12 | 8°32 | 15°12 | 12°48 | 1°34 | 26°36 | 27°59 | 29° 1 | 0°10 | 27° 6 | 4° 7 | W25 |
| T 26 | 14 18 49 | 6°23'51 | 25°34 | 4°51 | 12°23 | 8°10 | 15°26 | 12°50 | 1°36 | 26°36 | 28° 0 | 28°58 | 0° 7 | 27°13 | 4°10 | T 26 |
| F 27 | 14 22 45 | 7°22'01 | 10 M 3 | 4°12 | 13°33 | 7°48 | 15°41 | 12°53 | 1°37 | 26°36 | 28° 1 | 28°56 | 0° 4 | 27°20 | 4°12 | F 27 |
| S 28 | 14 26 42 | 8°20'09 | 24°43 | 3°34 | 14°44 | 7°27 | 15°55 | 12°55 | 1°39 | 26°R36 | 28° 2 | 28°D55 | 0° 1 | 27°26 | 4°14 | S 28 |
| S 29 | 14 30 39 | 9°18'15 | 9 ₹ 29 | 2°58 | 15°55 | 7° 5 | 16° 9 | 12°58 | 1°41 | 26°36 | 28° 3 | 28°55 | 29 8 58 | 27°33 | 4°17 | S 29 |
| M30 | 14 34 35 | 10816'21 | 24 × 12 | 2 8 24 | 17 I 5 | 6M42 | 16 8 23 | 13≈ 0 | 1) €43 | 26 궁 36 | 28耳 4 | 28 8 56 | 29 8 55 | 27 Ⅱ 40 | 4 米 19 | M30 |

Delta T = 30.87 sec

MAY 1668 GC 00:00 UT

| T 1 | | | | | | | - | ħ |)f(| # | Р | v | Ω | ţ | ę, | Day |
|------|----------|--------------------|----------------|----------------|-----------------|----------------|----------------|--------|---------------|----------------|----------------|----------------|----------------|----------------|-----------------|------|
| | 14 38 32 | 11 8 14'24 | 8 궁 49 | 1°R52 | 18 II 15 | 6°R20 | 16 8 37 | 13≈ 2 | 1) 45 | 26°R36 | 28耳 5 | 28 8 57 | 29 8 51 | 27 Ⅱ 46 | 4 ∺ 21 | T 1 |
| | 14 42 28 | 12°12'26 | 23°13 | 1824 | 19°26 | 5 M .58 | 16°51 | 13° 4 | 1°46 | 26 궁 36 | 28° 6 | 28°58 | 29°48 | 27°53 | 4°23 | W 2 |
| | 14 46 25 | 13°10'27 | 7≈22 | 0°59 | 20°36 | 5°36 | 17° 6 | 13° 6 | 1°48 | 26°36 | 28° 7 | 28°R59 | 29°45 | 28° 0 | 4°25 | T 3 |
| | 14 50 21 | 14° 8'27 | 21°15 | 0°38 | 21°46 | 5°15 | 17°20 | 13° 8 | 1°49 | 26°36 | 28° 8 | 28°59 | 29°42 | 28° 6 | 4°27 | F 4 |
| S 5 | 14 54 18 | 15° 6'25 | 4 ∺ 50 | 0°22 | 22°56 | 4°53 | 17°34 | 13°10 | 1°51 | 26°36 | 28°10 | 28°58 | 29°39 | 28°13 | 4°29 | S 5 |
| | 14 58 14 | 16° 4'22 | 18° 9 | 0° 9 | 24° 6 | 4°32 | 17°48 | 13°11 | 1°52 | 26°35 | 28°11 | 28°57 | 29°35 | 28°20 | 4°31 | S 6 |
| | 15 2 11 | 17° 2'17 | 1 Υ 11 | 0° 1 | 25°16 | 4°10 | 18° 2 | 13°13 | 1°54 | 26°35 | 28°12 | 28°56 | 29°32 | 28°26 | 4°32 | M 7 |
| _ | 15 6 8 | 18° 0'11 | 14° 0 | 29°D58 | 26°25 | 3°50 | 18°17 | 13°15 | 1°55 | 26°35 | 28°13 | 28°54 | 29°29 | 28°33 | 4°34 | T 8 |
| | 15 10 4 | 18°58'04 | 26°34 | 29 Y 59 | 27°35 | 3°29 | 18°31 | 13°16 | 1°57 | 26°34 | 28°14 | 28°53 | 29°26 | 28°40 | 4°36 | W 9 |
| | 15 14 1 | 19°55'55 | 8 8 57 | 0 8 5 | 28°44 | 3° 9 | 18°45 | 13°17 | 1°58 | 26°34 | 28°15 | 28°52 | 29°23 | 28°46 | 4°38 | T 10 |
| | 15 17 57 | 20°53'45 | 21° 9 | 0°16 | 29°54 | 2°49 | 18°59 | 13°18 | 1°59 | 26°34 | 28°17 | 28°51 | 29°20 | 28°53 | 4°39 | F 11 |
| S 12 | 15 21 54 | 21°51'34 | 3 Ⅱ 11 | 0°31 | 199 3 | 2°30 | 19°13 | 13°20 | 2° 0 | 26°33 | 28°18 | 28°D51 | 29°16 | 29° 0 | 4°41 | S 12 |
| S 13 | 15 25 50 | 22°49'21 | 15° 7 | 0°50 | 2°12 | 2°12 | 19°27 | 13°21 | 2° 2 | 26°33 | 28°19 | 28°51 | 29°13 | 29° 6 | 4°42 | S 13 |
| M14 | 15 29 47 | 23°47'07 | 26°57 | 1°14 | 3°21 | 1°54 | 19°42 | 13°22 | 2° 3 | 26°32 | 28°20 | 28°52 | 29°10 | 29°13 | 4°44 | M14 |
| T 15 | 15 33 43 | 24°44'51 | 8 9 346 | 1°42 | 4°30 | 1°36 | 19°56 | 13°22 | 2° 4 | 26°32 | 28°21 | 28°52 | 29° 7 | 29°20 | 4°45 | T 15 |
| W16 | 15 37 40 | 25°42'34 | 20°35 | 2°14 | 5°39 | 1°19 | 20°10 | 13°23 | 2° 5 | 26°31 | 28°23 | 28°53 | 29° 4 | 29°26 | 4°46 | W16 |
| T 17 | 15 41 37 | 26°40'15 | 2Ω 30 | 2°51 | 6°47 | 1° 3 | 20°24 | 13°24 | 2° 6 | 26°31 | 28°24 | 28°53 | 29° 1 | 29°33 | 4°47 | T 17 |
| F 18 | 15 45 33 | 27°37'55 | 14°33 | 3°31 | 7°56 | 0°48 | 20°38 | 13°24 | 2° 7 | 26°30 | 28°25 | 28°53 | 28°57 | 29°40 | 4°49 | F 18 |
| S 19 | 15 49 30 | 28°35'33 | 26°50 | 4°15 | 9° 4 | 0°33 | 20°52 | 13°25 | 2° 8 | 26°29 | 28°27 | 28°53 | 28°54 | 29°46 | 4°50 | S 19 |
| S 20 | 15 53 26 | 29°33'09 | 9 m 25 | 5° 2 | 10°13 | 0°18 | 21° 6 | 13°25 | 2° 8 | 26°29 | 28°28 | 28°53 | 28°51 | 29°53 | 4°51 | S 20 |
| M21 | 15 57 23 | 0 Ⅲ 30'44 | 22°21 | 5°53 | 11°21 | 0° 5 | 21°21 | 13°25 | 2° 9 | 26°28 | 28°29 | 28°53 | 28°48 | 29°59 | 4°52 | M21 |
| | 16 1 19 | 1°28'18 | 5 ≏ 42 | 6°48 | 12°29 | 29 ≏ 52 | 21°35 | 13°25 | 2°10 | 26°27 | 28°30 | 28°54 | 28°45 | 0 ෙ 6 | 4°53 | T 22 |
| | 16 5 16 | 2°25'50 | 19°29 | 7°46 | 13°37 | 29°40 | 21°49 | 13°R25 | 2°11 | 26°26 | 28°32 | 28°54 | 28°41 | 0°13 | 4°54 | W23 |
| | 16 9 12 | 3°23'21 | 3 M .42 | 8°47 | 14°44 | 29°29 | 22° 3 | 13°25 | 2°11 | 26°26 | 28°33 | 28°54 | 28°38 | 0°20 | 4°55 | T 24 |
| _ | 16 13 9 | 4°20'50 | 18°19 | 9°51 | 15°52 | 29°19 | 22°17 | 13°25 | 2°12 | 26°25 | 28°34 | 28°54 | 28°35 | 0°26 | 4°55 | F 25 |
| S 26 | 16 17 6 | 5°18'19 | 3 × 13 | 10°59 | 16°59 | 29° 9 | 22°31 | 13°25 | 2°12 | 26°24 | 28°36 | 28°R55 | 28°32 | 0°33 | 4°56 | S 26 |
| S 27 | 16 21 2 | 6°15'46 | 18°17 | 12° 9 | 18° 7 | 29° 1 | 22°45 | 13°25 | 2°13 | 26°23 | 28°37 | 28°54 | 28°29 | 0°40 | 4°57 | S 27 |
| _ | 16 24 59 | 7°13'13 | 3 る 23 | 13°23 | 19°14 | 28°53 | 22°59 | 13°24 | 2°13 | 26°22 | 28°39 | 28°54 | 28°26 | 0°46 | 4°58 | M28 |
| T 29 | 16 28 55 | 8°10'39 | 18°21 | 14°39 | 20°21 | 28°46 | 23°13 | 13°24 | 2°14 | 26°21 | 28°40 | 28°53 | 28°22 | 0°53 | 4°58 | T 29 |
| | 16 32 52 | 9° 8'04 | 3≈ 4 | 15°58 | 21°27 | 28°39 | 23°26 | 13°23 | 2°14 | 26°20 | 28°41 | 28°52 | 28°19 | 1° 0 | 4°59 | W30 |
| T 31 | 16 36 48 | 10 I I 5'28 | 17≈27 | 17820 | 22934 | 28 ≏ 34 | 23840 | 13≈22 | 2) 14 | 26 궁 19 | 28 Ⅱ 43 | 28 8 51 | 28 8 16 | 199 6 | 4) (59 | T 31 |

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Greg. Calendar

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| JUNE 1000 GC | 00.00 01 |

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | P | v | Ω | Ç | ç | Day |
|-------------|----------------------|----------------------|-----------------|----------------|------------------------|-----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|---------------|-------------|
| F 1 | 16 40 45 | 11 II 2'52 | 1 米 26 | 18 8 46 | 23940 | 28°R29 | 23 8 54 | 13°R21 | 2) 15 | 26°R18 | 28∏44 | 28°R50 | 28813 | 19913 | 5 ∺ 0 | F 1 |
| S 2 | 16 44 41 | 12° 0'15 | 15° 1 | 20°13 | 24°47 | 28 ≏ 25 | 24° 8 | 13≈21 | 2°15 | 26 궁 17 | 28°45 | 28°D50 | 28°10 | 1°20 | 5° 0 | S 2 |
| S 3 | 16 48 38 | 12°57'37 | 28°13 | 21°44 | 25°53 | 28°22 | 24°22 | 13°19 | 2°15 | 26°16 | 28°47 | 28 8 50 | 28° 7 | 1°26 | 5° 0 | S 3 |
| M 4 | 16 52 35 | 13°54'59 | 11 ° 5 | 23°17 | 26°59 | 28°20 | 24°35 | 13°18 | 2°15 | 26°15 | 28°48 | 28°51 | 28° 3 | 1°33 | 5° 0 | M 4 |
| T 5 | 16 56 31 | 14°52'20 | 23°39 | 24°54 | 28° 4 | 28°18 | 24°49 | 13°17 | 2°15 | 26°14 | 28°50 | 28°52 | 28° 0 | 1°40 | 5° 1 | T 5 |
| W 6 T 7 | 17 0 28 17 4 24 | 15°49'41 16°47'01 | 5 8 58 | 26°32 28°14 | 29°10 0 Ω 15 | 28°D18 28°18 | 25° 3 25°17 | 13°16 13°14 | 2°R15 2°15 | 26°13 26°12 | 28°51 28°53 | 28°54 28°55 | 27°57 27°54 | 1°46 1°53 | 5° 1 5°R 1 | W 6 T 7 |
| F 8 | 17 4 24 | 16°47'01 17°44'21 | 0 Ⅱ 6 | 28°14 29°58 | 1°20 | 28°18 28°19 | 25°17 25°30 | 13°14 13°13 | 2°15 | 26°12 26°11 | 28°54 | 28°R55 | 27°54 27°51 | 2° 0 | 5° K 1 | F 8 |
| S 9 | 17 12 17 | 18°41'40 | 12° 0 | 1 II 45 | 2°25 | 28°21 | 25°44 | 13°11 | 2°15 | 26°10 | 28°55 | 28°54 | 27°47 | 2° 6 | 5° 1 | S 9 |
| S 10 | 17 16 14 | 19°38'59 | 23°50 | 3°35 | 3°30 | 28°23 | 25°57 | 13°10 | 2°15 | 26° 8 | 28°57 | 28°53 | 27°44 | 2°13 | 5° 0 | S 10 |
| M11 | 17 10 14 | 20°36'17 | 5939 | 5°27 | 4°35 | 28°27 | 26°11 | 13° 8 | 2°15 | 26° 7 | 28°58 | 28°50 | 27°41 | 2°20 | 5° 0 | M11 |
| T 12 | 17 24 7 | 21°33'35 | 17°28 | 7°21 | 5°39 | 28°31 | 26°24 | 13° 6 | 2°14 | 26° 6 | 29° 0 | 28°47 | 27°38 | 2°26 | 5° 0 | T 12 |
| W13 | 17 28 4 | 22°30'51 | 29°20 | 9°18 | 6°43 | 28°36 | 26°38 | 13° 4 | 2°14 | 26° 5 | 29° 1 | 28°43 | 27°35 | 2°33 | 5° 0 | W13 |
| T 14 | 17 32 0 | 23°28'07 | 11 Ω 18 | 11°18 | 7°47 | 28°41 | 26°51 | 13° 2 | 2°14 | 26° 3 | 29° 3 | 28°39 | 27°32 | 2°40 | 4°59 | T 14 |
| F 15 | 17 35 57 | 24°25'23 | 23°24 | 13°19 | 8°50 | 28°48 | 27° 4 | 13° 0 | 2°13 | 26° 2 | 29° 4 | 28°36 | 27°28 | 2°46 | 4°59 | F 15 |
| S 16 | 17 39 53 | 25°22'37 | 5 m /41 | 15°22 | 9°54 | 28°55 | 27°18 | 12°58 | 2°13 | 26° 1 | 29° 6 | 28°33 | 27°25 | 2°53 | 4°58 | S 16 |
| S 17 | 17 43 50 | 26°19'51 | 18°14 | 17°28 | 10°57 | 29° 3 | 27°31 | 12°56 | 2°12 | 25°59 | 29° 7 | 28°32 | 27°22 | 3° 0 | 4°58 | S 17 |
| M18 | 17 47 46 | 27°17'05 | 1 º 6 | 19°34 | 12° 0 | 29°11 | 27°44 | 12°53 | 2°12 | 25°58 | 29° 9 | 28°D32 | 27°19 | 3° 6 | 4°57 | M18 |
| T 19 | 17 51 43 | 28°14'17 | 14°20 | 21°43 | 13° 2 | 29°21 | 27°57 | 12°51 | 2°11 | 25°57 | 29°10 | 28°32 | 27°16 | 3°13 | 4°57 | T 19 |
| W20 T 21 | 17 55 40 17 59 36 | 29°11'29 | 27°59 | 23°52 26° 2 | 14° 4 15° 6 | 29°31 29°41 | 28°10 28°23 | 12°48 12°46 | 2°10 2°10 | 25°55 25°54 | 29°12 29°13 | 28°34 28°35 | 27°12 27° 9 | 3°20 3°26 | 4°56 4°55 | W20 T 21 |
| F 22 | 18 3 33 | 09 8'41 1° 5'52 | 12M 5 26°36 | 28°13 | 16° 8 | 29°53 | 28°36 | 12°43 | 2° 9 | 25°52 | 29°14 | 28°R36 | 27° 6 | 3°33 | 4°54 | F 22 |
| S 23 | 18 7 29 | 2° 3'03 | 11 × 730 | 09524 | 17° 9 | om 5 | 28°49 | 12°40 | 2° 8 | 25°51 | 29°16 | 28°35 | 27° 3 | 3°40 | 4°54 | S 23 |
| S 24 | 18 11 26 | 3° 0'14 | 26°38 | 2°35 | 18°10 | 0°17 | 29° 2 | 12°37 | 2° 7 | 25°49 | 29°17 | 28°33 | 27° 0 | 3°46 | 4°53 | S 24 |
| M25 | 18 15 22 | 3°57'24 | 11 云 54 | 4°46 | 18 10 19°11 | 0°17 0°31 | 29°15 | 12°34 | 2° 6 | 25°48 | 29°17 | 28°30 | 26°57 | 3°53 | 4°52 | M25 |
| T 26 | 18 19 19 | 4°54'34 | 27° 6 | 6°56 | 20°11 | 0°44 | 29°28 | 12°31 | 2° 6 | 25°46 | 29°20 | 28°25 | 26°53 | 4° 0 | 4°51 | T 26 |
| W27 | 18 23 15 | 5°51'45 | 12≈ 3 | 9° 5 | 21°11 | 0°59 | 29°40 | 12°28 | 2° 5 | 25°45 | 29°22 | 28°20 | 26°50 | 4° 6 | 4°49 | W27 |
| T 28 | 18 27 12 | 6°48'55 | 26°40 | 11°14 | 22°11 | 1°14 | 29°53 | 12°25 | 2° 4 | 25°43 | 29°23 | 28°15 | 26°47 | 4°13 | 4°48 | T 28 |
| F 29 | 18 31 9 | 7°46'06 | 10) (49 | 13°21 | 23°10 | 1°30 | 0耳 6 | 12°22 | 2° 3 | 2 <u>5</u> °42 | 29°25 | 28°10 | 26°44 | 4°20 | 4°47 | F 29 |
| S 30 | 18 35 5 | 89643'16 | 24) (30 | 15927 | 24 N 9 | 1 M .46 | 0 П 18 | 12≈19 | 2) 1 | 25 る 40 | 29∏26 | 288 8 | 26841 | 49527 | 4 ∺ 46 | S 30 |

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|------|----------|------------------|----------------|---------------|----------------|-------|--------------|--------|---------------|----------------|-------|---------------|----------------|------|-----------------|------|
| S 1 | 18 39 2 | 99540'28 | 7 Υ 44 | 17931 | 25 Ω 8 | 2M 3 | 0Д31 | 12°R15 | 2°R 0 | 25°R39 | 29∏28 | 28°D 7 | 26 8 38 | 4933 | 4°R45 | S 1 |
| M 2 | 18 42 58 | 10°37'39 | 20°33 | 19°34 | 26° 6 | 2°20 | 0°43 | 12≈12 | 1 米 59 | 25 云 37 | 29°29 | 28 8 7 | 26°34 | 4°40 | 4) (43 | M 2 |
| T 3 | 18 46 55 | 11°34'51 | 3 8 1 | 21°35 | 27° 4 | 2°38 | 0°55 | 12° 8 | 1°58 | 25°36 | 29°30 | 28° 9 | 26°31 | 4°47 | 4°42 | T 3 |
| W 4 | 18 50 51 | 12°32'03 | 15°13 | 23°35 | 28° 1 | 2°56 | 1° 7 | 12° 5 | 1°57 | 25°34 | 29°32 | 28°10 | 26°28 | 4°53 | 4°40 | W 4 |
| T 5 | 18 54 48 | 13°29'16 | 27°13 | 25°33 | 28°58 | 3°15 | 1°20 | 12° 1 | 1°55 | 25°33 | 29°33 | 28°R11 | 26°25 | 5° 0 | 4°39 | T 5 |
| F 6 | 18 58 44 | 14°26'29 | 9 I I 6 | 27°29 | 29°54 | 3°35 | 1°32 | 11°58 | 1°54 | 25°31 | 29°35 | 28°10 | 26°22 | 5° 7 | 4°37 | F 6 |
| S 7 | 19 241 | 15°23'43 | 20°54 | 29°23 | 0 m 50 | 3°55 | 1°44 | 11°54 | 1°53 | 25°29 | 29°36 | 28° 7 | 26°19 | 5°13 | 4°36 | S 7 |
| S 8 | 19 638 | 16°20'57 | 2 95 42 | 1 Ω 15 | 1°46 | 4°15 | 1°56 | 11°50 | 1°51 | 25°28 | 29°38 | 28° 3 | 26°15 | 5°20 | 4°34 | S 8 |
| M 9 | 19 10 34 | 17°18'11 | 14°32 | 3° 5 | 2°40 | 4°36 | 2° 8 | 11°46 | 1°50 | 25°26 | 29°39 | 27°56 | 26°12 | 5°27 | 4°32 | M 9 |
| T 10 | 19 14 31 | 18°15'26 | 26°25 | 4°54 | 3°35 | 4°58 | 2°19 | 11°43 | 1°48 | 25°25 | 29°40 | 27°47 | 26° 9 | 5°33 | 4°31 | T 10 |
| W11 | 19 18 27 | 19°12'41 | $8\Omega 23$ | 6°40 | 4°29 | 5°20 | 2°31 | 11°39 | 1°47 | 25°23 | 29°42 | 27°38 | 26° 6 | 5°40 | 4°29 | W11 |
| T 12 | 19 22 24 | 20° 9'56 | 20°28 | 8°25 | 5°22 | 5°42 | 2°43 | 11°35 | 1°45 | 25°21 | 29°43 | 27°28 | 26° 3 | 5°47 | 4°27 | T 12 |
| F 13 | 19 26 20 | 21° 7'12 | 2 Mp 42 | 10° 8 | 6°15 | 6° 5 | 2°54 | 11°31 | 1°43 | 25°20 | 29°45 | 27°19 | 25°59 | 5°53 | 4°25 | F 13 |
| S 14 | 19 30 17 | 22° 4'27 | 15° 5 | 11°49 | 7° 7 | 6°29 | 3° 6 | 11°27 | 1°42 | 25°18 | 29°46 | 27°12 | 25°56 | 6° 0 | 4°23 | S 14 |
| S 15 | 19 34 13 | 23° 1'43 | 27°42 | 13°28 | 7°59 | 6°52 | 3°17 | 11°22 | 1°40 | 25°17 | 29°47 | 27° 7 | 25°53 | 6° 7 | 4°21 | S 15 |
| M16 | 19 38 10 | 23°59'00 | 10 ≏ 34 | 15° 5 | 8°50 | 7°16 | 3°29 | 11°18 | 1°38 | 25°15 | 29°49 | 27° 4 | 25°50 | 6°13 | 4°19 | M16 |
| T 17 | 19 42 7 | 24°56'16 | 23°44 | 16°41 | 9°40 | 7°41 | 3°40 | 11°14 | 1°37 | 25°13 | 29°50 | 27°D 3 | 25°47 | 6°20 | 4°17 | T 17 |
| W18 | 19 46 3 | 25°53'33 | 7 M .16 | 18°14 | 10°29 | 8° 6 | 3°51 | 11°10 | 1°35 | 25°12 | 29°51 | 27° 3 | 25°44 | 6°27 | 4°15 | W18 |
| T 19 | 19 50 0 | 26°50'50 | 21°10 | 19°46 | 11°18 | 8°32 | 4° 2 | 11° 6 | 1°33 | 25°10 | 29°53 | 27°R 4 | 25°40 | 6°33 | 4°13 | T 19 |
| F 20 | 19 53 56 | 27°48'08 | 5 ₹ 29 | 21°15 | 12° 6 | 8°57 | 4°13 | 11° 1 | 1°31 | 25° 8 | 29°54 | 27° 4 | 25°37 | 6°40 | 4°11 | F 20 |
| S 21 | 19 57 53 | 28°45'26 | 20°10 | 22°43 | 12°53 | 9°24 | 4°24 | 10°57 | 1°29 | 25° 7 | 29°55 | 27° 2 | 25°34 | 6°47 | 4° 8 | S 21 |
| S 22 | 20 1 49 | 29°42'45 | 5 る 9 | 24° 9 | 13°40 | 9°50 | 4°35 | 10°53 | 1°28 | 25° 5 | 29°57 | 26°58 | 25°31 | 6°53 | 4° 6 | S 22 |
| M23 | 20 5 46 | 0 Ω 40'04 | 20°18 | 25°33 | 14°26 | 10°17 | 4°45 | 10°48 | 1°26 | 25° 4 | 29°58 | 26°51 | 25°28 | 7° 0 | 4° 4 | M23 |
| T 24 | 20 9 43 | 1°37'25 | 5≈28 | 26°55 | 15°10 | 10°45 | 4°56 | 10°44 | 1°24 | 25° 2 | 29°59 | 26°43 | 25°25 | 7° 7 | 4° 1 | T 24 |
| W25 | 20 13 39 | 2°34'45 | 20°29 | 28°15 | 15°54 | 11°12 | 5° 6 | 10°40 | 1°22 | 25° 0 | 0ණ 1 | 26°33 | 25°21 | 7°13 | 3°59 | W25 |
| T 26 | 20 17 36 | 3°32'07 | 5 ₩ 11 | 29°32 | 16°37 | 11°40 | 5°17 | 10°35 | 1°20 | 24°59 | 0° 2 | 26°24 | 25°18 | 7°20 | 3°57 | T 26 |
| F 27 | 20 21 32 | 4°29'30 | 19°27 | 0 ₯ 48 | 17°19 | 12° 9 | 5°27 | 10°31 | 1°18 | 24°57 | 0° 3 | 26°15 | 25°15 | 7°27 | 3°54 | F 27 |
| S 28 | 20 25 29 | 5°26'53 | 3 Υ 14 | 2° 2 | 18° 0 | 12°37 | 5°37 | 10°26 | 1°16 | 24°56 | 0° 4 | 26° 9 | 25°12 | 7°34 | 3°52 | S 28 |
| S 29 | 20 29 25 | 6°24'18 | 16°32 | 3°13 | 18°40 | 13° 6 | 5°47 | 10°22 | 1°13 | 24°54 | 0° 6 | 26° 6 | 25° 9 | 7°40 | 3°49 | S 29 |
| M30 | 20 33 22 | 7°21'44 | 29°23 | 4°22 | 19°18 | 13°36 | 5°57 | 10°17 | 1°11 | 2 <u>4</u> °52 | 0° 7 | 26° 4 | 25° 5 | 7°47 | 3°47 | M30 |
| T 31 | 20 37 18 | 8 Ω 19'12 | 11 8 51 | 5 m 28 | 19 m 56 | 14M 5 | 6 I 7 | 10≈13 | 1 ∺ 9 | 24 궁 51 | 0න 8 | 26°D 4 | 258 2 | 7954 | 3){ 44 | T 31 |

Delta T = 30.71 sec

Greg. Calendar

| AUGUST 1668 GC | 00:00 UT |
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| | |

| Day | Sid.t | 0 | D | ğ | · | S | 4 | ħ | ፟ | ¥ | Р | ß | S | Ç | Ŷ, | Day |
|------|----------|------------------|-----------------|---------------|----------------|----------------|---------------|--------------|--------------|----------------|-------|--------|----------------|--------------|---------------|------|
| W 1 | 20 41 15 | 9Ω16'40 | 248 1 | 6 m 33 | 20 m 33 | 14ML35 | 6 Ⅱ 17 | 10°R 8 | 1°R 7 | 24°R49 | 099 9 | 26°R 4 | 24 8 59 | 8 © 0 | 3°R42 | W 1 |
| T 2 | 20 45 11 | 10°14'11 | 5 Ⅱ 59 | 7°34 | 21° 8 | 15° 6 | 6°26 | 10≈ 4 | 1 米 5 | 24 중 48 | 0°10 | 268 4 | 24°56 | 8° 7 | 3 ∺ 39 | T 2 |
| F 3 | 20 49 8 | 11°11'42 | 17°50 | 8°33 | 21°42 | 15°36 | 6°36 | 10° 0 | 1° 3 | 24°46 | 0°11 | 26° 2 | 24°53 | 8°14 | 3°36 | F 3 |
| S 4 | 20 53 5 | 12° 9'15 | 29°38 | 9°29 | 22°15 | 16° 7 | 6°45 | 9°55 | 1° 1 | 24°45 | 0°13 | 25°57 | 24°50 | 8°20 | 3°34 | S 4 |
| S 5 | 20 57 1 | 13° 6'49 | 119527 | 10°22 | 22°46 | 16°38 | 6°54 | 9°51 | 0°58 | 24°43 | 0°14 | 25°50 | 24°46 | 8°27 | 3°31 | S 5 |
| M 6 | 21 0 58 | 14° 4'24 | 23°20 | 11°12 | 23°16 | 17°10 | 7° 3 | 9°46 | 0°56 | 24°42 | 0°15 | 25°41 | 24°43 | 8°34 | 3°28 | M 6 |
| T 7 | 21 4 54 | 15° 2'01 | 5 Ω 20 | 11°58 | 23°44 | 17°41 | 7°12 | 9°42 | 0°54 | 24°40 | 0°16 | 25°29 | 24°40 | 8°40 | 3°25 | T 7 |
| W 8 | 21 8 51 | 15°59'38 | 17°27 | 12°41 | 24°11 | 18°14 | 7°21 | 9°37 | 0°51 | 24°39 | 0°17 | 25°15 | 24°37 | 8°47 | 3°23 | W 8 |
| T 9 | 21 12 47 | 16°57'17 | 29°44 | 13°21 | 24°37 | 18°46 | 7°30 | 9°33 | 0°49 | 24°37 | 0°18 | 25° 2 | 24°34 | 8°54 | 3°20 | T 9 |
| F 10 | 21 16 44 | 17°54'58 | 12 M p11 | 13°57 | 25° 0 | 19°18 | 7°39 | 9°28 | 0°47 | 24°36 | 0°19 | 24°49 | 24°30 | 9° 0 | 3°17 | F 10 |
| S 11 | 21 20 41 | 18°52'39 | 24°48 | 14°28 | 25°22 | 19°51 | 7°47 | 9°24 | 0°45 | 24°34 | 0°20 | 24°39 | 24°27 | 9° 7 | 3°14 | S 11 |
| S 12 | 21 24 37 | 19°50'21 | 7 ≏ 36 | 14°56 | 25°43 | 20°24 | 7°56 | 9°20 | 0°42 | 24°33 | 0°21 | 24°31 | 24°24 | 9°14 | 3°11 | S 12 |
| M13 | 21 28 34 | 20°48'05 | 20°36 | 15°18 | 26° 1 | 20°58 | 8° 4 | 9°15 | 0°40 | 24°31 | 0°22 | 24°26 | 24°21 | 9°20 | 3° 8 | M13 |
| T 14 | 21 32 30 | 21°45'49 | 3 M .51 | 15°36 | 26°18 | 21°32 | 8°12 | 9°11 | 0°38 | 24°30 | 0°23 | 24°24 | 24°18 | 9°27 | 3° 6 | T 14 |
| W15 | 21 36 27 | 22°43'35 | 17°21 | 15°49 | 26°32 | 22° 5 | 8°20 | 9° 7 | 0°35 | 24°29 | 0°24 | 24°23 | 24°15 | 9°34 | 3° 3 | W15 |
| T 16 | 21 40 23 | 23°41'22 | 1 √ 9 | 15°57 | 26°45 | 22°40 | 8°28 | 9° 2 | 0°33 | 24°27 | 0°25 | 24°23 | 24°11 | 9°40 | 3° 0 | T 16 |
| F 17 | 21 44 20 | 24°39'10 | 15°15 | 16°R 0 | 26°55 | 23°14 | 8°35 | 8°58 | 0°30 | 24°26 | 0°26 | 24°22 | 24° 8 | 9°47 | 2°57 | F 17 |
| S 18 | 21 48 16 | 25°37'00 | 29°39 | 15°56 | 27° 4 | 23°49 | 8°43 | 8°54 | 0°28 | 24°24 | 0°27 | 24°20 | 24° 5 | 9°54 | 2°54 | S 18 |
| S 19 | 21 52 13 | 26°34'50 | 14 궁 19 | 15°47 | 27°10 | 24°23 | 8°50 | 8°50 | 0°26 | 24°23 | 0°28 | 24°15 | 24° 2 | 10° 1 | 2°51 | S 19 |
| M20 | 21 56 10 | 27°32'42 | 29°10 | 15°32 | 27°14 | 24°58 | 8°58 | 8°46 | 0°23 | 24°22 | 0°29 | 24° 7 | 23°59 | 10° 7 | 2°48 | M20 |
| T 21 | 22 0 6 | 28°30'36 | 14 ≈ 3 | 15°11 | 27°R16 | 25°34 | 9° 5 | 8°42 | 0°21 | 24°21 | 0°30 | 23°57 | 23°56 | 10°14 | 2°45 | T 21 |
| W22 | 22 4 3 | 29°28'30 | 28°51 | 14°44 | 27°15 | 26° 9 | 9°12 | 8°38 | 0°19 | 24°19 | 0°31 | 23°46 | 23°52 | 10°21 | 2°42 | W22 |
| T 23 | 22 7 59 | 0 m 26′26 | 13 ∺ 25 | 14°11 | 27°12 | 26°45 | 9°18 | 8°34 | 0°16 | 24°18 | 0°31 | 23°34 | 23°49 | 10°27 | 2°39 | T 23 |
| F 24 | 22 11 56 | 1°24'24 | 27°37 | 13°33 | 27° 7 | 27°21 | 9°25 | 8°30 | 0°14 | 24°17 | 0°32 | 23°25 | 23°46 | 10°34 | 2°36 | F 24 |
| S 25 | 22 15 52 | 2°22'23 | 11 Y 24 | 12°50 | 26°59 | 27°57 | 9°32 | 8°26 | 0°11 | 24°16 | 0°33 | 23°17 | 23°43 | 10°41 | 2°33 | S 25 |
| S 26 | 22 19 49 | 3°20'25 | 24°43 | 12° 2 | 26°49 | 28°33 | 9°38 | 8°22 | 0° 9 | 24°14 | 0°34 | 23°12 | 23°40 | 10°47 | 2°30 | S 26 |
| M27 | 22 23 45 | 4°18'28 | 7 8 36 | 11° 9 | 26°36 | 29°10 | 9°44 | 8°18 | 0° 7 | 24°13 | 0°35 | 23° 9 | 23°36 | 10°54 | 2°27 | M27 |
| T 28 | 22 27 42 | 5°16'33 | 20° 7 | 10°14 | 26°21 | 29°47 | 9°50 | 8°14 | 0° 4 | 24°12 | 0°35 | 23°D 8 | 23°33 | 11° 1 | 2°24 | T 28 |
| W29 | 22 31 38 | 6°14'40 | 2 Ⅱ 19 | 9°17 | 26° 4 | 0 ≯ 23 | 9°56 | 8°11 | 0° 2 | 24°11 | 0°36 | 23°R 8 | 23°30 | 11° 7 | 2°22 | W29 |
| T 30 | 22 35 35 | 7°12'49 | 14°18 | 8°19 | 25°45 | 1° 1 | 10° 2 | 8° 7 | 29≈59 | 2 <u>4</u> °10 | 0°37 | 23° 8 | 23°27 | 11°14 | 2°19 | T 30 |
| F 31 | 22 39 32 | 8 Mp 11'01 | 26耳10 | 7 Mg 21 | 25 Mp 23 | 1 , ₹38 | 10耳 7 | 8 ≈ 3 | 29≈57 | 24궁 9 | 0937 | 238 7 | 23824 | 119921 | 2 ∺ 16 | F 31 |

Delta T = 30.66 sec

SEPTEMBER 1668 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| 并 | Р | n | Ω | ţ | ķ | Day |
|------|----------|-------------------|----------------|----------------|----------------|----------------|-----------------|-------|--------|----------------|-------|--------|-------|--------|---------------|------|
| S 1 | 22 43 28 | 9 m) 9'14 | 7959 | 6°R24 | 24°R59 | 2 √ 15 | 10耳13 | 8°R 0 | 29°R55 | 24°R 8 | 0938 | 23°R 3 | 23821 | 119527 | 2°R13 | S 1 |
| S 2 | 22 47 25 | 10° 7'29 | 19°50 | 5 m p31 | 24 m 34 | 2°53 | 10°18 | 7≈56 | 29≈52 | 24궁 7 | 0°39 | 22857 | 23°17 | 11°34 | 2 ∺ 10 | S 2 |
| M 3 | 22 51 21 | 11° 5'46 | 1 Ω 48 | 4°41 | 24° 6 | 3°31 | 10°23 | 7°53 | 29°50 | 24° 6 | 0°39 | 22°49 | 23°14 | 11°41 | 2° 7 | M 3 |
| T 4 | 22 55 18 | 12° 4'06 | 13°55 | 3°57 | 23°37 | 4° 9 | 10°28 | 7°50 | 29°48 | 24° 5 | 0°40 | 22°38 | 23°11 | 11°48 | 2° 4 | T 4 |
| W 5 | 22 59 14 | 13° 2'27 | 26°13 | 3°20 | 23° 5 | 4°47 | 10°33 | 7°46 | 29°45 | 24° 4 | 0°41 | 22°26 | 23° 8 | 11°54 | 2° 1 | W 5 |
| T 6 | 23 3 11 | 14° 0'49 | 8 Mp 44 | 2°49 | 22°33 | 5°25 | 10°37 | 7°43 | 29°43 | 24° 3 | 0°41 | 22°14 | 23° 5 | 12° 1 | 1°58 | T 6 |
| F 7 | 23 7 7 | 14°59'14 | 21°28 | 2°27 | 21°59 | 6° 4 | 10°42 | 7°40 | 29°41 | 24° 2 | 0°42 | 22° 2 | 23° 2 | 12° 8 | 1°55 | F 7 |
| S 8 | 23 11 4 | 15°57'41 | 4 ≏ 24 | 2°14 | 21°24 | 6°43 | 10°46 | 7°37 | 29°39 | 24° 1 | 0°42 | 21°52 | 22°58 | 12°14 | 1°53 | S 8 |
| S 9 | 23 15 1 | 16°56'09 | 17°31 | 2°D10 | 20°48 | 7°22 | 10°50 | 7°34 | 29°36 | 24° 0 | 0°43 | 21°45 | 22°55 | 12°21 | 1°50 | S 9 |
| M10 | 23 18 57 | 17°54'39 | 0 M .49 | 2°15 | 20°12 | 8° 1 | 10°54 | 7°31 | 29°34 | 24° 0 | 0°43 | 21°41 | 22°52 | 12°28 | 1°47 | M10 |
| T 11 | 23 22 54 | 18°53'11 | 14°19 | 2°29 | 19°35 | 8°40 | 10°57 | 7°29 | 29°32 | 23°59 | 0°44 | 21°39 | 22°49 | 12°34 | 1°44 | T 11 |
| W12 | 23 26 50 | 19°51'45 | 27°58 | 2°53 | 18°58 | 9°19 | 11° 1 | 7°26 | 29°30 | 23°58 | 0°44 | 21°D39 | 22°46 | 12°41 | 1°41 | W12 |
| T 13 | 23 30 47 | 20°50'20 | 11 ~ 49 | 3°26 | 18°21 | 9°59 | 11° 4 | 7°23 | 29°27 | 23°57 | 0°44 | 21°40 | 22°42 | 12°48 | 1°39 | T 13 |
| F 14 | 23 34 43 | 21°48'57 | 25°51 | 4° 8 | 17°45 | 10°39 | 11° 7 | 7°21 | 29°25 | 23°57 | 0°45 | 21°R40 | 22°39 | 12°54 | 1°36 | F 14 |
| S 15 | 23 38 40 | 22°47'36 | 10중 3 | 4°58 | 17° 9 | 11°18 | 11°10 | 7°18 | 29°23 | 23°56 | 0°45 | 21°39 | 22°36 | 13° 1 | 1°33 | S 15 |
| S 16 | 23 42 36 | 23°46'16 | 24°24 | 5°56 | 16°33 | 11°58 | 11°13 | 7°16 | 29°21 | 23°56 | 0°45 | 21°35 | 22°33 | 13° 8 | 1°31 | S 16 |
| M17 | 23 46 33 | 24°44'58 | 8≈51 | 7° 1 | 15°59 | 12°39 | 11°15 | 7°13 | 29°19 | 23°55 | 0°46 | 21°29 | 22°30 | 13°15 | 1°28 | M17 |
| T 18 | 23 50 30 | 25°43'42 | 23°19 | 8°13 | 15°26 | 13°19 | 11°17 | 7°11 | 29°17 | 23°54 | 0°46 | 21°22 | 22°27 | 13°21 | 1°25 | T 18 |
| W19 | 23 54 26 | 26°42'27 | 7) €42 | 9°31 | 14°54 | 13°59 | 11°19 | 7° 9 | 29°15 | 23°54 | 0°46 | 21°13 | 22°23 | 13°28 | 1°23 | W19 |
| T 20 | 23 58 23 | 27°41'15 | 21°54 | 10°54 | 14°24 | 14°40 | 11°21 | 7° 7 | 29°13 | 23°53 | 0°47 | 21° 4 | 22°20 | 13°35 | 1°20 | T 20 |
| F 21 | 0 2 19 | 28°40'04 | 5 Ƴ 50 | 12°21 | 13°56 | 15°20 | 11°23 | 7° 5 | 29°11 | 23°53 | 0°47 | 20°57 | 22°17 | 13°41 | 1°18 | F 21 |
| S 22 | 0 6 16 | 29°38'55 | 19°25 | 13°53 | 13°30 | 16° 1 | 11°25 | 7° 3 | 29° 9 | 23°52 | 0°47 | 20°51 | 22°14 | 13°48 | 1°15 | S 22 |
| S 23 | 0 10 12 | 0 ჲ 37'49 | 2 8 38 | 15°28 | 13° 5 | 16°42 | 11°26 | 7° 2 | 29° 7 | 23°52 | 0°47 | 20°47 | 22°11 | 13°55 | 1°13 | S 23 |
| M24 | 0 14 9 | 1°36'45 | 15°29 | 17° 6 | 12°43 | 17°23 | 11°27 | 7° 0 | 29° 5 | 23°52 | 0°47 | 20°D45 | 22° 7 | 14° 1 | 1°10 | M24 |
| T 25 | 0 18 5 | 2°35'43 | 28° 0 | 18°46 | 12°24 | 18° 4 | 11°28 | 6°58 | 29° 3 | 23°51 | 0°47 | 20°45 | 22° 4 | 14° 8 | 1° 8 | T 25 |
| W26 | 0 22 2 | 3°34'43 | 10 Ⅱ 13 | 20°29 | 12° 6 | 18°46 | 11°29 | 6°57 | 29° 1 | 23°51 | 0°48 | 20°46 | 22° 1 | 14°15 | 1° 5 | W26 |
| T 27 | 0 25 59 | 4°33'46 | 22°14 | 22°12 | 11°51 | 19°27 | 11°29 | 6°55 | 28°59 | 23°51 | 0°48 | 20°48 | 21°58 | 14°21 | 1° 3 | T 27 |
| F 28 | 0 29 55 | 5°32'51 | 499 7 | 23°57 | 11°38 | 20° 9 | 11°30 | 6°54 | 28°58 | 23°50 | 0°48 | 20°R48 | 21°55 | 14°28 | 1° 1 | F 28 |
| S 29 | 0 33 52 | 6°31'58 | 15°58 | 25°43 | 11°28 | 20°50 | 11°R30 | 6°53 | 28°56 | 23°50 | 0°48 | 20°48 | 21°52 | 14°35 | 0°59 | S 29 |
| S 30 | 0 37 48 | 7 ≙ 31'07 | 27951 | 27 m 29 | 11 m 20 | 21 × 32 | 11 II 30 | 6≈52 | 28≈54 | 23 궁 50 | 0°R48 | 20846 | 21848 | 149642 | 0 ¥ 56 | S 30 |

Delta T = 30.60 sec

Greg. Calendar

| OCTOBER 1668 GC | 00:00 l |
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| OCTOBER 1000 GC | 00.00 |

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | Р | r | Ω | Ç | Š | Day |
|------|---------|------------------|-----------------|----------------|----------|----------------|-----------------|--------------|----------------|----------------|-------|----------------|-------|--------|---------------|------|
| M 1 | 0 41 45 | 8 ₾ 30'19 | 9 Ω 51 | 29 m 15 | 11°R15 | 22 × 14 | 11°R30 | 6°R51 | 28°R52 | 23°R50 | 0°R48 | 20°R41 | 21845 | 149548 | 0°R54 | M 1 |
| T 2 | 0 45 41 | 9°29'33 | 22° 3 | 1 ♀ 2 | 11 Mp 12 | 22°56 | 11 II 29 | 6≈50 | 28≈51 | 23 궁 50 | 09548 | 20836 | 21°42 | 14°55 | 0 ∺ 52 | T 2 |
| W 3 | 0 49 38 | 10°28'50 | 4 m 29 | 2°49 | 11°D11 | 23°38 | 11°28 | 6°49 | 28°49 | 23°50 | 0°48 | 20°29 | 21°39 | 15° 2 | 0°50 | W 3 |
| T 4 | 0 53 34 | 11°28'08 | 17°11 | 4°35 | 11°13 | 24°21 | 11°28 | 6°48 | 28°48 | 23°50 | 0°48 | 20°22 | 21°36 | 15° 8 | 0°48 | T 4 |
| F 5 | 0 57 31 | 12°27'29 | 0 ჲ 10 | 6°21 | 11°17 | 25° 3 | 11°27 | 6°48 | 28°46 | 23°D50 | 0°48 | 20°15 | 21°33 | 15°15 | 0°46 | F 5 |
| S 6 | 1 1 28 | 13°26'52 | 13°26 | 8° 7 | 11°24 | 25°45 | 11°25 | 6°47 | 28°45 | 23°50 | 0°47 | 20°10 | 21°29 | 15°22 | 0°44 | S 6 |
| S 7 | 1 5 24 | 14°26'17 | 26°57 | 9°52 | 11°33 | 26°28 | 11°24 | 6°47 | 28°43 | 23°50 | 0°47 | 20° 6 | 21°26 | 15°28 | 0°42 | S 7 |
| M 8 | 1 9 21 | 15°25'44 | 10 M .40 | 11°36 | 11°44 | 27°11 | 11°22 | 6°46 | 28°42 | 23°50 | 0°47 | 20° 4 | 21°23 | 15°35 | 0°40 | M 8 |
| T 9 | 1 13 17 | 16°25'13 | 24°34 | 13°20 | 11°57 | 27°54 | 11°20 | 6°46 | 28°40 | 23°50 | 0°47 | 20°D 4 | 21°20 | 15°42 | 0°39 | T 9 |
| W10 | 1 17 14 | 17°24'44 | 8 . ₹35 | 15° 4 | 12°12 | 28°37 | 11°18 | 6°46 | 28°39 | 23°50 | 0°47 | 20° 5 | 21°17 | 15°48 | 0°37 | W10 |
| T 11 | 1 21 10 | 18°24'16 | 22°42 | 16°47 | 12°29 | 29°20 | 11°16 | 6°D46 | 28°38 | 23°50 | 0°46 | 20° 6 | 21°13 | 15°55 | 0°35 | T 11 |
| F 12 | 1 25 7 | 19°23'51 | 6 ප 51 | 18°29 | 12°48 | 0중 3 | 11°13 | 6°46 | 28°36 | 23°50 | 0°46 | 20° 7 | 21°10 | 16° 2 | 0°33 | F 12 |
| S 13 | 1 29 3 | 20°23'27 | 21° 2 | 20°11 | 13° 9 | 0°46 | 11°11 | 6°46 | 28°35 | 23°51 | 0°46 | 20°R 8 | 21° 7 | 16° 9 | 0°32 | S 13 |
| S 14 | 1 33 0 | 21°23'05 | 5≈12 | 21°52 | 13°32 | 1°29 | 11°8 | 6°47 | 28°34 | 23°51 | 0°46 | 20° 7 | 21° 4 | 16°15 | 0°30 | S 14 |
| M15 | 1 36 57 | 22°22'45 | 19°19 | 23°32 | 13°57 | 2°12 | 11° 5 | 6°47 | 28°33 | 23°51 | 0°45 | 20° 5 | 21° 1 | 16°22 | 0°29 | M15 |
| T 16 | 1 40 53 | 23°22'26 | 3 ∺ 22 | 25°12 | 14°23 | 2°56 | 11° 2 | 6°48 | 28°32 | 23°52 | 0°45 | 20° 2 | 20°58 | 16°29 | 0°27 | T 16 |
| W17 | 1 44 50 | 24°22'09 | 17°17 | 26°51 | 14°51 | 3°40 | 10°58 | 6°48 | 28°31 | 23°52 | 0°45 | 19°58 | 20°54 | 16°35 | 0°26 | W17 |
| T 18 | 1 48 46 | 25°21'53 | 1 Υ 1 | 28°30 | 15°20 | 4°23 | 10°55 | 6°49 | 28°30 | 23°52 | 0°44 | 19°54 | 20°51 | 16°42 | 0°25 | T 18 |
| F 19 | 1 52 43 | 26°21'40 | 14°31 | 0 M 8 | 15°52 | 5° 7 | 10°51 | 6°50 | 28°29 | 23°53 | 0°44 | 19°51 | 20°48 | 16°49 | 0°23 | F 19 |
| S 20 | 1 56 39 | 27°21'29 | 27°46 | 1°45 | 16°24 | 5°51 | 10°47 | 6°51 | 28°28 | 23°53 | 0°43 | 19°48 | 20°45 | 16°55 | 0°22 | S 20 |
| S 21 | 2 0 36 | 28°21'19 | 10844 | 3°22 | 16°58 | 6°35 | 10°43 | 6°52 | 28°27 | 23°54 | 0°43 | 19°47 | 20°42 | 17° 2 | 0°21 | S 21 |
| M22 | 2 4 32 | 29°21'12 | 23°26 | 4°58 | 17°34 | 7°18 | 10°38 | 6°53 | 28°26 | 23°54 | 0°42 | 19°D47 | 20°39 | 17° 9 | 0°20 | M22 |
| T 23 | 2 8 29 | 0 M 21'07 | 5 Ⅱ 51 | 6°34 | 18°11 | 8° 2 | 10°34 | 6°54 | 28°26 | 23°55 | 0°42 | 19°48 | 20°35 | 17°16 | 0°19 | T 23 |
| W24 | 2 12 25 | 1°21'03 | 18° 2 | 8° 9 | 18°49 | 8°47 | 10°29 | 6°55 | 28°25 | 23°56 | 0°41 | 19°49 | 20°32 | 17°22 | 0°18 | W24 |
| T 25 | 2 16 22 | 2°21'02 | 0 99 3 | 9°44 | 19°28 | 9°31 | 10°24 | 6°57 | 28°24 | 23°56 | 0°41 | 19°51 | 20°29 | 17°29 | 0°17 | T 25 |
| F 26 | 2 20 19 | 3°21'04 | 11°57 | 11°18 | 20° 9 | 10°15 | 10°19 | 6°58 | 28°24 | 23°57 | 0°40 | 19°52 | 20°26 | 17°36 | 0°16 | F 26 |
| S 27 | 2 24 15 | 4°21'07 | 23°48 | 12°52 | 20°51 | 10°59 | 10°14 | 7° 0 | 28°23 | 23°58 | 0°40 | 19°53 | 20°23 | 17°42 | 0°15 | S 27 |
| S 28 | 2 28 12 | 5°21'12 | 5 Ω 41 | 14°26 | 21°33 | 11°44 | 10° 8 | 7° 2 | 28°23 | 23°58 | 0°39 | 19°R53 | 20°19 | 17°49 | 0°14 | S 28 |
| M29 | 2 32 8 | 6°21'20 | 17°41 | 15°59 | 22°17 | 12°28 | 10° 3 | 7° 3 | 28°22 | 23°59 | 0°39 | 19°53 | 20°16 | 17°56 | 0°13 | M29 |
| T 30 | 2 36 5 | 7°21'29 | 29°53 | 17°31 | 23° 2 | 13°13 | 9°57 | 7° 5 | 28°22 | 24° 0 | 0°38 | 19°52 | 20°13 | 18° 2 | 0°13 | T 30 |
| W31 | 2 40 1 | 8ML21'41 | 12 M 20 | 19 M 4 | 23 Mp 48 | 13 る 57 | 9 Ⅱ 51 | 7 ≈ 7 | 28 ≈ 21 | 24궁 1 | 0ഇ37 | 19 8 51 | 20810 | 1895 9 | 0 ₩12 | W31 |

Delta T = 30.55 sec

NOVEMBER 1668 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)∤(| ¥ | Р | ß | v | ţ | o k | Day |
|------|---------|--------------------|-----------------|-----------------|---------------|----------------|--------------|--------------|--------|----------------|-------|----------------|----------------|--------|---------------|------|
| T 1 | 2 43 58 | 9 M 21'55 | 25 Mp 6 | 20 M 36 | 24 Mp 35 | 14 る 42 | 9°R45 | 7 ≈ 9 | 28°R21 | 24る 2 | 0°R37 | 19°R49 | 20 8 7 | 189516 | 0°R12 | T 1 |
| F 2 | 2 47 54 | 10°22'10 | 8 ≏ 14 | 22° 7 | 25°23 | 15°27 | 9П39 | 7°12 | 28≈21 | 24° 3 | 0936 | 19 8 48 | 20° 4 | 18°23 | 0 ∺ 11 | F 2 |
| S 3 | 2 51 51 | 11°22'28 | 21°43 | 23°38 | 26°12 | 16°11 | 9°33 | 7°14 | 28°21 | 24° 4 | 0°35 | 19°47 | 20° 0 | 18°29 | 0°11 | S 3 |
| S 4 | 2 55 48 | 12°22'47 | 5 M .33 | 25° 9 | 27° 1 | 16°56 | 9°26 | 7°16 | 28°20 | 24° 5 | 0°34 | 19°46 | 19°57 | 18°36 | 0°10 | S 4 |
| M 5 | 2 59 44 | 13°23'09 | 19°41 | 26°39 | 27°52 | 17°41 | 9°20 | 7°19 | 28°20 | 24° 6 | 0°34 | 19°D46 | 19°54 | 18°43 | 0°10 | M 5 |
| T 6 | 3 3 41 | 14°23'32 | 4 ₹ 3 | 28° 9 | 28°43 | 18°26 | 9°13 | 7°21 | 28°20 | 24° 7 | 0°33 | 19°46 | 19°51 | 18°49 | 0°10 | T 6 |
| W 7 | 3 7 37 | 15°23'56 | 18°33 | 29°39 | 29°35 | 19°11 | 9° 6 | 7°24 | 28°D20 | 24° 8 | 0°32 | 19°46 | 19°48 | 18°56 | 0°10 | W 7 |
| T 8 | 3 11 34 | 16°24'23 | 3 ප 5 | 1 才 8 | 0 ჲ 28 | 19°56 | 8°59 | 7°27 | 28°20 | 24° 9 | 0°31 | 19°47 | 19°45 | 19° 3 | 0° 9 | T 8 |
| F 9 | 3 15 30 | 17°24'50 | 17°35 | 2°37 | 1°21 | 20°41 | 8°52 | 7°30 | 28°20 | 24°10 | 0°30 | 19°47 | 19°41 | 19° 9 | 0°D 9 | F 9 |
| S 10 | 3 19 27 | 18°25'19 | 1≈58 | 4° 5 | 2°15 | 21°27 | 8°45 | 7°33 | 28°20 | 24°11 | 0°30 | 19°47 | 19°38 | 19°16 | 0° 9 | S 10 |
| S 11 | 3 23 24 | 19°25'49 | 16°10 | 5°33 | 3°10 | 22°12 | 8°38 | 7°36 | 28°21 | 24°12 | 0°29 | 19°47 | 19°35 | 19°23 | 0° 9 | S 11 |
| M12 | 3 27 20 | 20°26'21 | 0) (10 | 7° 0 | 4° 5 | 22°57 | 8°30 | 7°39 | 28°21 | 24°13 | 0°28 | 19°47 | 19°32 | 19°30 | 0°10 | M12 |
| T 13 | 3 31 17 | 21°26'53 | 13°56 | 8°27 | 5° 1 | 23°43 | 8°23 | 7°42 | 28°21 | 24°15 | 0°27 | 19°47 | 19°29 | 19°36 | 0°10 | T 13 |
| W14 | 3 35 13 | 22°27'27 | 27°28 | 9°53 | 5°57 | 24°28 | 8°15 | 7°45 | 28°21 | 24°16 | 0°26 | 19°47 | 19°25 | 19°43 | 0°10 | W14 |
| T 15 | 3 39 10 | 23°28'02 | 10 Υ 46 | 11°19 | 6°54 | 25°13 | 8° 7 | 7°49 | 28°22 | 24°17 | 0°25 | 19°48 | 19°22 | 19°50 | 0°10 | T 15 |
| F 16 | 3 43 6 | 24°28'39 | 23°50 | 12°44 | 7°52 | 25°59 | 8° 0 | 7°52 | 28°22 | 24°19 | 0°24 | 19°48 | 19°19 | 19°56 | 0°11 | F 16 |
| S 17 | 3 47 3 | 25°29'16 | 6841 | 14° 7 | 8°50 | 26°44 | 7°52 | 7°56 | 28°23 | 24°20 | 0°23 | 19°49 | 19°16 | 20° 3 | 0°11 | S 17 |
| S 18 | 3 50 59 | 26°29'56 | 19°20 | 15°30 | 9°49 | 27°30 | 7°44 | 8° 0 | 28°23 | 24°21 | 0°22 | 19°R49 | 19°13 | 20°10 | 0°12 | S 18 |
| M19 | 3 54 56 | 27°30'36 | 1∏46 | 16°52 | 10°48 | 28°15 | 7°36 | 8° 3 | 28°24 | 24°23 | 0°21 | 19°49 | 19°10 | 20°17 | 0°12 | M19 |
| T 20 | 3 58 52 | 28°31'18 | 14° 2 | 18°13 | 11°47 | 29° 1 | 7°28 | 8° 7 | 28°25 | 24°24 | 0°20 | 19°48 | 19° 6 | 20°23 | 0°13 | T 20 |
| W21 | 4 2 49 | 29°32'01 | 26° 8 | 19°33 | 12°48 | 29°47 | 7°20 | 8°11 | 28°25 | 24°26 | 0°19 | 19°47 | 19° 3 | 20°30 | 0°13 | W21 |
| T 22 | 4 6 46 | 0 ₮ 32'46 | 8 9 5 6 | 20°50 | 13°48 | 0≈32 | 7°12 | 8°15 | 28°26 | 24°27 | 0°18 | 19°45 | 19° 0 | 20°37 | 0°14 | T 22 |
| F 23 | 4 10 42 | 1°33'32 | 19°59 | 22° 6 | 14°49 | 1°18 | 7° 4 | 8°19 | 28°27 | 24°29 | 0°17 | 19°44 | 18°57 | 20°43 | 0°15 | F 23 |
| S 24 | 4 14 39 | 2°34'20 | 1 Ω 49 | 23°20 | 15°51 | 2° 4 | 6°56 | 8°23 | 28°28 | 24°30 | 0°16 | 19°42 | 18°54 | 20°50 | 0°16 | S 24 |
| S 25 | 4 18 35 | 3°35'09 | 13°42 | 24°32 | 16°52 | 2°50 | 6°48 | 8°28 | 28°29 | 24°32 | 0°15 | 19°40 | 18°51 | 20°57 | 0°17 | S 25 |
| M26 | 4 22 32 | 4°36'00 | 25°40 | 25°41 | 17°55 | 3°35 | 6°40 | 8°32 | 28°30 | 24°34 | 0°14 | 19°39 | 18°47 | 21° 3 | 0°18 | M26 |
| T 27 | 4 26 28 | 5°36'52 | 7 ₯ 48 | 26°47 | 18°57 | 4°21 | 6°31 | 8°37 | 28°31 | 24°35 | 0°13 | 19°D39 | 18°44 | 21°10 | 0°19 | T 27 |
| W28 | 4 30 25 | 6°37'45 | 20°11 | 27°49 | 20° 0 | 5° 7 | 6°23 | 8°41 | 28°32 | 24°37 | 0°12 | 19°40 | 18°41 | 21°17 | 0°20 | W28 |
| T 29 | 4 34 22 | 7°38'39 | 2 ≙ 53 | 28°47 | 21° 4 | 5°53 | 6°15 | 8°46 | 28°33 | 2 <u>4</u> °38 | 0°11 | 19°41 | 18°38 | 21°24 | 0°21 | T 29 |
| F 30 | 4 38 18 | 8 .₹ 139'35 | 15 ≏ 58 | 29 ,7 40 | 22 º 7 | 6≈39 | 6 I 7 | 8≈50 | 28≈34 | 24 궁 40 | 0910 | 19 8 42 | 18 8 35 | 219930 | 0 ∺ 22 | F 30 |

Delta T = 30.49 sec

Greg. Calendar

DECEMBER 1668 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)∤(| ¥ | Р | r | Ω | Ç | Š | Day |
|--------------|--------------------|--------------------|------------------------|-----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------|
| S 1 | 4 42 15 | 9 ∡ 740'33 | 29 £ 29 | 0 궁 28 | 23 ₽ 11 | 7≈25 | 5°R59 | 8 ≈ 55 | 28≈35 | 24 궁 42 | 0°R 9 | 19844 | 18 8 31 | 21937 | 0 ∺ 23 | S 1 |
| S 2 | 4 46 11 | 10°41'31 | 13 M 26 | 1°10 | 24°16 | 8°11 | 5 Ⅱ 50 | 9° 0 | 28°36 | 24°44 | 0න 8 | 19°R44 | 18°28 | 21°44 | 0°25 | S 2 |
| M 3 | 4 50 8 | 11°42'31 | 27°48 | 1°45 | 25°20 | 8°57 | 5°42 | 9° 5 | 28°38 | 24°45 | 0° 6 | 19°44 | 18°25 | 21°50 | 0°26 | M 3 |
| T 4 | 4 54 4 | 12°43'31 | 12 7 31 | 2°13 | 26°25 | 9°43 | 5°34 | 9°10 | 28°39 | 24°47 | 0° 5 | 19°43 | 18°22 | 21°57 | 0°28 | T 4 |
| W 5 | 4 58 1 | 13°44'33 | 27°26 | 2°32 | 27°30 | 10°29 | 5°26 | 9°15 | 28°40 | 24°49 | 0° 4 | 19°41 | 18°19 | 22° 4 | 0°29 | W 5 |
| T 6 | 5 1 57 | 14°45'36 | 12 る 27 | 2°R41 | 28°36 | 11°15 | 5°18 | 9°20 | 28°42 | 24°51 | 0° 3 | 19°37 | 18°16 | 22°11 | 0°31 | T 6 |
| F 7 | 5 5 54 | 15°46'39 | 27°24 | 2°40 | 29°42 | 12° 1 | 5°10 | 9°25 | 28°43 | 24°53 | 0° 2 | 19°34 | 18°12 | 22°17 | 0°32 | F 7 |
| S 8 | 5 9 51 | 16°47'43 | 12 ≈ 9 | 2°29 | 0 M .48 | 12°47 | 5° 2 | 9°30 | 28°45 | 24°55 | 0° 1 | 19°30 | 18° 9 | 22°24 | 0°34 | S 8 |
| S 9 | 5 13 47 | 17°48'47 | 26°36 | 2° 6 | 1°54 | 13°33 | 4°55 | 9°35 | 28°47 | 24°56 | 29耳59 | 19°27 | 18° 6 | 22°31 | 0°36 | S 9 |
| M10 | 5 17 44 | 18°49'51 | 10 米 41 | 1°31 | 3° 1 | 14°19 | 4°47 | 9°41 | 28°48 | 24°58 | 29°58 | 19°26 | 18° 3 | 22°37 | 0°37 | M10 |
| T 11 | 5 21 40 | 19°50'56 | 24°24 | 0°45 | 4° 7 | 15° 5 | 4°39 | 9°46 | 28°50 | 25° 0 | 29°57 | 19°D26 | 18° 0 | 22°44 | 0°39 | T 11 |
| W12 | 5 25 37 | 20°52'01 | 7 Ƴ 45 | 29 .7 48 | 5°14 | 15°51 | 4°32 | 9°52 | 28°52 | 25° 2 | 29°56 | 19°27 | 17°57 | 22°51 | 0°41 | W12 |
| T 13 | 5 29 33 | 21°53'06 | 20°47 | 28°41 | 6°21 | 16°38 | 4°24 | 9°57 | 28°53 | 25° 4 | 29°55 | 19°28 | 17°53 | 22°58 | 0°43 | T 13 |
| F 14 | 5 33 30 | 22°54'12 | 3 8 33 | 27°27 26° 8 | 7°29 | 17°24 | 4°17 | 10° 3 | 28°55 | 25° 6 | 29°53 | 19°30 | 17°50 | 23° 4 | 0°45 | F 14 |
| S 15 | 5 37 26 | 23°55'18 | 16° 4 | 26° 8 | 8°36 | 18°10 | 4°10 | 10° 8 | 28°57 | 25° 8 | 29°52 | 19°R31 | 17°47 | 23°11 | 0°47 | S 15 |
| S 16 | 5 41 23 | 24°56'25 | 28°25 | 24°45 | 9°44 | 18°56 | 4° 2 | 10°14 | 28°59 | 25°10 | 29°51 | 19°30 | 17°44 | 23°18 | 0°49 | S 16 |
| M17 | 5 45 20 | 25°57'32 | 10 Ⅲ 36 | 23°23 | 10°52 | 19°42 | 3°55 | 10°20 | 29° 1 | 25°12 | 29°50 | 19°28 | 17°41 | 23°24 | 0°51 | M17 |
| T 18 | 5 49 16 | 26°58'39 | 22°40 | 22° 3 | 12° 0 | 20°28 | 3°48 | 10°26 | 29° 3 | 25°14 | 29°49 | 19°24 | 17°37 | 23°31 | 0°53 | T 18 |
| W19 | 5 53 13 | 27°59'46 | 4939 | 20°49 | 13° 9 | 21°15 | 3°42 | 10°32 | 29° 5 | 25°16 | 29°47 | 19°18 | 17°34 | 23°38 | 0°56 | W19 |
| T 20 | 5 57 9 | 29° 0'54 | 16°33 | 19°41 | 14°17 | 22° 1 | 3°35 | 10°38 | 29° 7 | 25°18 | 29°46 | 19°11 | 17°31 | 23°45 | 0°58 | T 20 |
| F 21 S 22 | 6 1 6 6 5 2 | 0る 2'03 1° 3'11 | 28°25 | 18°43 17°54 | 15°26 16°35 | 22°47 23°33 | 3°28 3°22 | 10°44 10°50 | 29° 9 29°11 | 25°21 25°23 | 29°45 29°44 | 19° 3 18°54 | 17°28 17°25 | 23°51 23°58 | 1° 0 1° 3 | F 21 S 22 |
| | | | 10 Ω 16 | | | | | | - | | - | | | | | |
| S 23 | 6 8 59 | 2° 4'21 | 22° 9 | 17°16 | 17°44 | 24°19 | 3°16 | 10°56 | 29°13 | 25°25 | 29°43 | 18°47 | 17°22 | 24° 5 | 1° 5 | S 23 |
| M24 | 6 12 56 | 3° 5'30 | 4 Mp 7 | 16°49 | 18°53 | 25° 5 | 3° 9 | 11° 2 | 29°16 | 25°27 | 29°41 | 18°41 | 17°18 | 24°11 | 1° 8 | M24 |
| T 25 | 6 16 52 | 4° 6'40 | 16°13 | 16°31 | 20° 3 | 25°52 | 3° 3 | 11° 8 | 29°18 | 25°29 | 29°40 | 18°37 | 17°15 | 24°18 | 1°10 | T 25 |
| W26 | 6 20 49 | 5° 7'50 | 28°32 | 16°D24 | 21°12 | 26°38 | 2°58 | 11°14 | 29°20 | 25°31 | 29°39 | 18°35 | 17°12 | 24°25 | 1°13 | W26 |
| T 27 | 6 24 45 | 6° 9'00 | 11 ♀ 7 | 16°26 | 22°22 | 27°24 | 2°52 | 11°21 | 29°23 | 25°33 | 29°38 | 18°D35 | 17° 9 | 24°32 | 1°15 | T 27 F 28 |
| F 28 S 29 | 6 28 42 6 32 38 | 7°10'11 | 24° 4 7 M 27 | 16°37 16°56 | 23°32 24°42 | 28°10 28°56 | 2°46 2°41 | 11°27 11°33 | 29°25 29°27 | 25°36 25°38 | 29°37 29°35 | 18°36 18°37 | 17° 6 17° 3 | 24°38 24°45 | 1°18 1°21 | F 28 S 29 |
| | | 8°11'22 | | | | | | | | | | | | | | |
| S 30 | 6 36 35 | 9°12'34 | 21°17 | 17°22 | 25°52 | 29°42 | 2°36 | 11°40 | 29°30 | 25°40 | 29°34 | 18°R38 | 16°59 | 24°52 | 1°23 | S 30 |
| M31 | 6 40 31 | 10ਰ13'46 | 5 ,₹ 37 | 17 ₹ 55 | 27 m 2 | 0 ∺ 28 | 2 Ⅱ 31 | 11≈46 | 29≈32 | 25 る 42 | 29∏33 | 18 8 36 | 16856 | 24958 | 1 ∺ 26 | M31 |

Delta T = 30.44 sec

JANUARY 1669 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)∤(| 卉 | Р | ß | v | Ç | ç | Day |
|-------------|-------------------|----------------------|-----------------------------|-----------------|-------------------|----------------|----------------|-------------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------------|-------------|
| T 1 | 6 44 28 | 11 궁 14'57 | 20 х ² 23 | 18 ∡ ³34 | 28 M .13 | 1 ∺ 14 | 2°R26 | 11 ≈ 53 | 29 ≈ 35 | 25 ~ 44 | 29°R32 | 18°R33 | 16 8 53 | 25© 5 | 1 ∺ 29 | T 1 |
| W 2 | 6 48 25 | 12°16'09 | 5 ♂ 29 | 19°18 | 29°23 | 2° 1 | 2 Ⅲ 21 | 11°59 | 29°37 | 25°47 | 29 Ⅲ 31 | 18 8 27 | 16°50 | 25°12 | 1°32 | W 2 |
| T 3 | 6 52 21 | 13°17'21 | 20°47 | 20° 6 | 0 ∡ 34 | 2°47 | 2°17 | 12° 6 | 29°40 | 25°49 | 29°29 | 18°19 | 16°47 | 25°19 | 1°35 | T 3 |
| F 4 | 6 56 18 | 14°18'32 | 6≈ 4 | 20°59 | 1°44 | 3°33 | 2°12 | 12°12 | 29°43 | 25°51 | 29°28 | 18°10 | 16°43 | 25°25 | 1°38 | F 4 |
| S 5 | 7 0 14 | 15°19'43 | 21°11 | 21°55 | 2°55 | 4°19 | 2° 8 | 12°19 | 29°45 | 25°53 | 29°27 | 18° 1 | 16°40 | 25°32 | 1°41 | S 5 |
| S 6 M 7 | 7 4 11 7 8 7 | 16°20'54 17°22'03 | 5 \(\frac{1}{5}\)7 | 22°55 23°58 | 4° 6 5°17 | 5° 5 5°51 | 2° 4 2° 0 | 12°26 12°33 | 29°48 29°51 | 25°56 25°58 | 29°26 29°25 | 17°53 17°48 | 16°37 16°34 | 25°39 25°45 | 1°44 1°44 1°47 | S 6 M 7 |
| T 8 | 7 12 4 | 18°23'12 | 4 Υ 9 | 25° 4 | 6°28 | 6°37 | 1°57 | 12°39 | 29°54 | 26° 0 | 29°24 | 17°45 | 16°31 | 25°52 | 1°50 | T 8 |
| W 9 | 7 16 0 | 19°24'21 | 17°32 | 26°12 | 7°39 | 7°23 | 1°53 | 12°46 | 29°56 | 26° 2 | 29°22 | 17°D44 | 16°28 | 25°59 | 1°53 | W 9 |
| T 10 | 7 19 57 | 20°25'28 | 0 8 31 | 27°22 | 8°50 | 8° 9 | 1°50 | 12°53 | 29°59 | 26° 5 | 29°21 | 17°44 | 16°24 | 26° 6 | 1°57 | T 10 |
| F 11 | 7 23 54 | 21°26'35 | 13° 9 | 28°34 | 10° 2 | 8°55 | 1°47 | 13° 0 | 0₩ 2 | 26° 7 | 29°20 | 17°R45 | 16°21 | 26°12 | 2° 0 | F 11 |
| S 12 | 7 27 50 | 22°27'41 | 25°30 | 29°48 | 11°13 | 9°41 | 1°44 | 13° 7 | 0° 5 | 26° 9 | 29°19 | 17°44 | 16°18 | 26°19 | 2° 3 | S 12 |
| S 13 | 7 31 47 | 23°28'46 | 7 ∏ 39 | 1 る 4 | 12°25 | 10°27 | 1°42 | 13°14 | 0° 8 | 26°11 | 29°18 | 17°42 | 16°15 | 26°26 | 2° 6 | S 13 |
| M14 | 7 35 43 | 24°29'51 | 19°40 | 2°21 | 13°36 | 11°13 | 1°39 | 13°21 | 0°11 | 26°14 | 29°17 | 17°38 | 16°12 | 26°32 | 2°10 | M14 |
| T 15 | 7 39 40 | 25°30'54 | 1935 | 3°39 | 14°48 | 11°59 | 1°37 | 13°28 | 0°14 | 26°16 | 29°16 | 17°30 | 16° 9 | 26°39 | 2°13 | T 15 |
| W16 | 7 43 36 | 26°31'57 | 13°28 | 4°59 | 16° 0 | 12°45 | 1°35 | 13°35 | 0°17 | 26°18 | 29°15 | 17°20 | 16° 5 | 26°46 | 2°16 | W16 |
| T 17 | 7 47 33 | 27°32'59 | 25°20 | 6°20 | 17°11 | 13°31 | 1°33 | 13°42 | 0°20 | 26°21 | 29°14 | 17° 7 | 16° 2 | 26°53 | 2°20 | T 17 |
| F 18 | 7 51 29 | 28°34'01 | 7 Ω 12 | 7°42 | 18°23 | 14°16 | 1°32 | 13°49 | 0°23 | 26°23 | 29°13 | 16°53 | 15°59 | 26°59 | 2°23 | F 18 |
| S 19 | 7 55 26 | 29°35'01 | 19° 7 | 9° 5 | 19°35 | 15° 2 | 1°31 | 13°56 | 0°26 | 26°25 | 29°12 | 16°39 | 15°56 | 27° 6 | 2°27 | S 19 |
| S 20 | 7 59 23 | 0≈36'01 | 1 m 4 13° 7 | 10°29 | 20°47 | 15°48 | 1°29 | 14° 3 | 0°29 | 26°27 | 29°11 | 16°26 | 15°53 | 27°13 | 2°30 | S 20 |
| M21 | 8 3 19 | 1°37'00 | | 11°54 | 21°59 | 16°34 | 1°28 | 14°10 | 0°32 | 26°30 | 29°10 | 16°15 | 15°49 | 27°19 | 2°34 | M21 |
| T 22 W23 | 8 7 16 8 11 12 | 2°37'58 3°38'56 | 25°16 7 Ω 36 | 13°19 14°46 | 23°11 24°23 | 17°19 18° 5 | 1°28 1°27 | 14°17 14°17 14°24 | 0°35 0°38 | 26°32 26°34 | 29° 9 29° 8 | 16° 7 16° 1 | 15°46 15°43 | 27°26 27°33 | 2°37 2°41 | T 22 W23 |
| T 24 | 8 15 9 | 4°39'53 | 20°10 | 16°14 | 25°36 | 18°51 | 1°27 | 14°31 | 0°42 | 26°36 | 29° 7 | 15°59 | 15°40 | 27°40 | 2°45 | T 24 |
| F 25 | 8 19 5 | 5°40'49 | 3M 2 | 17°42 | 26°48 | 19°36 | 1°D27 | 14°38 | 0°45 | 26°39 | 29° 6 | 15°D58 | 15°37 | 27°46 | 2°48 | F 25 |
| S 26 | 8 23 2 | 6°41'44 | 16°15 | 19°11 | 28° 0 | 20°22 | 1°27 | 14°45 | 0°48 | 26°41 | 29° 5 | 15°R58 | 15°34 | 27°53 | 2°52 | S 26 |
| S 27 | 8 26 58 | 7°42'39 | 29°54 | 20°41 | 29°13 | 21° 8 | 1°27 | 14°53 | 0°51 | 26°43 | 29° 4 | 15°57 | 15°30 | 28° 0 | 2°55 | S 27 |
| M28 | 8 30 55 | 8°43'33 | 14 ズ 0 | 22°12 | 0 る 25 | 21°53 | 1°27 | 15° 0 | 0°54 | 26°45 | 29° 3 | 15°55 | 15°27 | 28° 6 | 2°59 | M28 |
| T 29 | 8 34 52 | 9°44'26 | 28°34 | 23°43 | 1°38 | 22°39 | 1°28 | 15° 7 | 0°58 | 26°48 | 29° 2 | 15°50 | 15°24 | 28°13 | 3° 3 | T 29 |
| W30 | 8 38 48 | 10°45'19 | 13 石 31 | 25°15 | 2°50 | 23°24 | 1°29 | 15°14 | 1° 1 | 26°50 | 29° 1 | 15°43 | 15°21 | 28°20 | 3° 7 | W30 |
| T 31 | 8 42 45 | 11≈46'10 | 28 3 45 | 26 ප් 48 | 4 ට් 3 | 24) 10 | 1 I I30 | 15 ≈ 21 | 1) 4 | 26 궁 52 | 29 I 0 | 15832 | 15818 | 28927 | 3 ∺ 10 | T 31 |

Delta T = 30.38 sec

Greg. Calendar

FEBRUARY 1669 GC 00:00 UT

| Day | Sid.t | 0 | 9 | φ | Q ₊ | ď | 4 | ħ |)ұ(| ¥ | 2 | ß | Ω | ţ | κ _O | Day |
|------|----------|------------------|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|--------|---------------|----------------|---------------|----------------|------|
| F 1 | 8 46 41 | 12≈47'00 | 14≈ 5 | 28 궁 22 | 5 る 16 | 24 米 55 | 1 I I31 | 15≈29 | 1) 8 | 26 궁 54 | 29°R 0 | 15°R21 | 15 8 15 | 28933 | 3) 14 | F 1 |
| S 2 | 8 50 38 | 13°47'49 | 29°19 | 29°57 | 6°28 | 25°40 | 1°33 | 15°36 | 1°11 | 26°57 | 28耳59 | 15 8 9 | 15°11 | 28°40 | 3°18 | S 2 |
| S 3 | 8 54 34 | 14°48'36 | 14 米 17 | 1≈32 | 7°41 | 26°26 | 1°34 | 15°43 | 1°14 | 26°59 | 28°58 | 14°58 | 15° 8 | 28°47 | 3°22 | S 3 |
| M 4 | 8 58 31 | 15°49'22 | 28°49 | 3° 8 | 8°54 | 27°11 | 1°36 | 15°50 | 1°18 | 27° 1 | 28°57 | 14°50 | 15° 5 | 28°53 | 3°26 | M 4 |
| T 5 | 9 2 27 | 16°50'06 | 12 Y 52 | 4°45 | 10° 7 | 27°57 | 1°38 | 15°57 | 1°21 | 27° 3 | 28°56 | 14°45 | 15° 2 | 29° 0 | 3°29 | T 5 |
| W 6 | 9 6 24 | 17°50'49 | 26°25 | 6°23 | 11°19 | 28°42 | 1°41 | 16° 5 | 1°24 | 27° 5 | 28°56 | 14°42 | 14°59 | 29° 7 | 3°33 | W 6 |
| T 7 | 9 10 21 | 18°51'30 | 9 8 30 | 8° 1 | 12°32 | 29°27 | 1°43 | 16°12 | 1°28 | 27° 7 | 28°55 | 14°42 | 14°55 | 29°14 | 3°37 | T 7 |
| F 8 | 9 14 17 | 19°52'09 | 22°10 | 9°41 | 13°45 | o Υ 12 | 1°46 | 16°19 | 1°31 | 27°10 | 28°54 | 14°42 | 14°52 | 29°20 | 3°41 | F 8 |
| S 9 | 9 18 14 | 20°52'46 | 4 Ⅱ 30 | 11°21 | 14°58 | 0°57 | 1°49 | 16°26 | 1°34 | 27°12 | 28°53 | 14°41 | 14°49 | 29°27 | 3°45 | S 9 |
| S 10 | 9 22 10 | 21°53'22 | 16°37 | 13° 2 | 16°11 | 1°43 | 1°52 | 16°33 | 1°38 | 27°14 | 28°53 | 14°39 | 14°46 | 29°34 | 3°49 | S 10 |
| M11 | 9 26 7 | 22°53'56 | 28°33 | 14°44 | 17°24 | 2°28 | 1°55 | 16°41 | 1°41 | 27°16 | 28°52 | 14°34 | 14°43 | 29°40 | 3°53 | M11 |
| T 12 | 9 30 3 | 23°54'29 | 10925 | 16°27 | 18°37 | 3°13 | 1°58 | 16°48 | 1°45 | 27°18 | 28°52 | 14°27 | 14°40 | 29°47 | 3°57 | T 12 |
| W13 | 9 34 0 | 24°55'00 | 22°16 | 18°10 | 19°50 | 3°58 | 2° 2 | 16°55 | 1°48 | 27°20 | 28°51 | 14°16 | 14°36 | 29°54 | 4° 1 | W13 |
| T 14 | 9 37 56 | 25°55'28 | 4 Ω 7 | 19°55 | 21° 3 | 4°43 | 2° 6 | 17° 2 | 1°52 | 27°22 | 28°50 | 14° 4 | 14°33 | 0 Ω 1 | 4° 5 | T 14 |
| F 15 | 9 41 53 | 26°55'56 | 16° 2 | 21°40 | 22°16 | 5°28 | 2°10 | 17° 9 | 1°55 | 27°24 | 28°50 | 13°50 | 14°30 | 0° 7 | 4° 9 | F 15 |
| S 16 | 9 45 50 | 27°56'21 | 28° 2 | 23°27 | 23°29 | 6°12 | 2°14 | 17°16 | 1°59 | 27°26 | 28°49 | 13°35 | 14°27 | 0°14 | 4°13 | S 16 |
| S 17 | 9 49 46 | 28°56'45 | 10 m) 8 | 25°14 | 24°42 | 6°57 | 2°18 | 17°23 | 2° 2 | 27°28 | 28°49 | 13°22 | 14°24 | 0°21 | 4°17 | S 17 |
| M18 | 9 53 43 | 29°57'07 | 22°21 | 27° 3 | 25°55 | 7°42 | 2°23 | 17°31 | 2° 5 | 27°30 | 28°48 | 13°11 | 14°20 | 0°28 | 4°20 | M18 |
| T 19 | 9 57 39 | 0 ¥ 57'28 | 4 ≏ 42 | 28°52 | 27° 9 | 8°27 | 2°27 | 17°38 | 2° 9 | 27°32 | 28°48 | 13° 2 | 14°17 | 0°34 | 4°24 | T 19 |
| W20 | 10 1 36 | 1°57'47 | 17°12 | 0 ∺ 42 | 28°22 | 9°12 | 2°32 | 17°45 | 2°12 | 27°34 | 28°47 | 12°56 | 14°14 | 0°41 | 4°28 | W20 |
| T 21 | 10 5 32 | 2°58'04 | 29°54 | 2°34 | 29°35 | 9°56 | 2°37 | 17°52 | 2°16 | 27°36 | 28°47 | 12°54 | 14°11 | 0°48 | 4°32 | T 21 |
| F 22 | 10 9 29 | 3°58'20 | 12 M 49 | 4°26 | 0≈48 | 10°41 | 2°43 | 17°59 | 2°19 | 27°38 | 28°46 | 12°D53 | 14° 8 | 0°54 | 4°36 | F 22 |
| S 23 | 10 13 25 | 4°58'35 | 26° 2 | 6°19 | 2° 1 | 11°26 | 2°48 | 18° 6 | 2°23 | 27°40 | 28°46 | 12°53 | 14° 5 | 1° 1 | 4°40 | S 23 |
| S 24 | 10 17 22 | 5°58'48 | 9 ∡ 35 | 8°12 | 3°15 | 12°10 | 2°54 | 18°13 | 2°26 | 27°42 | 28°45 | 12°R53 | 14° 1 | 1° 8 | 4°44 | S 24 |
| M25 | 10 21 19 | 6°58'59 | 23°30 | 10° 7 | 4°28 | 12°55 | 2°59 | 18°20 | 2°30 | 27°44 | 28°45 | 12°52 | 13°58 | 1°15 | 4°48 | M25 |
| T 26 | 10 25 15 | 7°59'10 | 7 궁 47 | 12° 2 | 5°41 | 13°39 | 3° 5 | 18°27 | 2°33 | 27°46 | 28°45 | 12°49 | 13°55 | 1°21 | 4°52 | T 26 |
| W27 | 10 29 12 | 8°59'18 | 22°26 | 13°58 | 6°55 | 14°24 | 3°11 | 18°34 | 2°36 | 27°48 | 28°44 | 12°43 | 13°52 | 1°28 | 4°56 | W27 |
| T 28 | 10 33 8 | 9 米 59'25 | 7≈20 | 15 米 54 | 8≈8 | 15 Y 8 | 3 Ⅱ 18 | 18 ≈ 41 | 2) 40 | 27 궁 49 | 28∏44 | 12835 | 13 8 49 | 1 Ω 35 | 5 米 0 | T 28 |

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| Day | Sid.t | 0 | D | ğ | Q. | ď | 4 | ħ |)Å(| ¥ | В | u | v | Ç | ę, | Day |
|------|----------|-------------------|-----------------|----------------|---------------|----------------|---------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|------|
| F 1 | 10 37 5 | 10 ¥ 59'30 | 22≈22 | 17) 50 | 9≈21 | 15 Υ 52 | 3 Ⅱ 24 | 18≈47 | 2) (43 | 27 궁 51 | 28°R44 | 12°R26 | 13 8 46 | 1 .0 41 | 5) 4 | F 1 |
| S 2 | 10 41 1 | 11°59'34 | 7 ∺ 24 | 19°47 | 10°35 | 16°37 | 3°30 | 18°54 | 2°47 | 27°53 | 28 Ⅱ 44 | 12816 | 13°42 | 1°48 | 5° 8 | S 2 |
| S 3 | 10 44 58 | 12°59'35 | 22°14 | 21°43 | 11°48 | 17°21 | 3°37 | 19° 1 | 2°50 | 27°55 | 28°43 | 12° 7 | 13°39 | 1°55 | 5°12 | S 3 |
| M 4 | 10 48 54 | 13°59'34 | 6 Υ 46 | 23°39 | 13° 2 | 18° 5 | 3°44 | 19°8 | 2°54 | 27°56 | 28°43 | 12° 0 | 13°36 | 2° 2 | 5°16 | M 4 |
| T 5 | 10 52 51 | 14°59'32 | 20°52 | 25°34 | 14°15 | 18°49 | 3°51 | 19°15 | 2°57 | 27°58 | 28°43 | 11°56 | 13°33 | 2° 8 | 5°20 | T 5 |
| W 6 | 10 56 48 | 15°59'27 | 4 8 31 | 27°28 | 15°29 | 19°34 | 3°58 | 19°21 | 3° 0 | 28° 0 | 28°43 | 11°54 | 13°30 | 2°15 | 5°24 | W 6 |
| T 7 | 11 0 44 | 16°59'20 | 17°42 | 29°21 | 16°42 | 20°18 | 4° 5 | 19°28 | 3° 4 | 28° 1 | 28°43 | 11°D54 | 13°26 | 2°22 | 5°28 | T 7 |
| F 8 | 11 441 | 17°59'11 | 0Д28 | 1 Υ 12 | 17°55 | 21° 2 | 4°13 | 19°35 | 3° 7 | 28° 3 | 28°43 | 11°55 | 13°23 | 2°28 | 5°32 | F 8 |
| S 9 | 11 8 37 | 18°59'00 | 12°53 | 3° 1 | 19° 9 | 21°46 | 4°21 | 19°41 | 3°10 | 28° 5 | 28°43 | 11°56 | 13°20 | 2°35 | 5°36 | S 9 |
| S 10 | 11 12 34 | 19°58'47 | 25° 2 | 4°47 | 20°22 | 22°30 | 4°28 | 19°48 | 3°14 | 28° 6 | 28°42 | 11°R56 | 13°17 | 2°42 | 5°39 | S 10 |
| M11 | 11 16 30 | 20°58'31 | 7 95 1 | 6°31 | 21°36 | 23°14 | 4°36 | 19°54 | 3°17 | 28° 8 | 28°42 | 11°54 | 13°14 | 2°49 | 5°43 | M11 |
| T 12 | 11 20 27 | 21°58'13 | 18°53 | 8°10 | 22°49 | 23°57 | 4°44 | 20° 1 | 3°20 | 28° 9 | 28°D42 | 11°50 | 13°11 | 2°55 | 5°47 | T 12 |
| W13 | 11 24 23 | 22°57'52 | 0 Ω 44 | 9°46 | 24° 3 | 24°41 | 4°52 | 20° 7 | 3°24 | 28°11 | 28°42 | 11°45 | 13° 7 | 3° 2 | 5°51 | W13 |
| T 14 | 11 28 20 | 23°57'30 | 12°37 | 11°16 | 25°16 | 25°25 | 5° 1 | 20°14 | 3°27 | 28°12 | 28°42 | 11°37 | 13° 4 | 3° 9 | 5°55 | T 14 |
| F 15 | 11 32 17 | 24°57'05 | 24°36 | 12°42 | 26°30 | 26° 9 | 5° 9 | 20°20 | 3°30 | 28°14 | 28°43 | 11°28 | 13° 1 | 3°16 | 5°59 | F 15 |
| S 16 | 11 36 13 | 25°56'38 | 6 m 43 | 14° 3 | 27°43 | 26°53 | 5°18 | 20°27 | 3°34 | 28°15 | 28°43 | 11°19 | 12°58 | 3°22 | 6° 2 | S 16 |
| S 17 | 11 40 10 | 26°56'09 | 18°58 | 15°17 | 28°57 | 27°36 | 5°26 | 20°33 | 3°37 | 28°17 | 28°43 | 11°11 | 12°55 | 3°29 | 6° 6 | S 17 |
| M18 | 11 44 6 | 27°55'38 | 1 ≏ 25 | 16°26 | 0 ∺ 10 | 28°20 | 5°35 | 20°39 | 3°40 | 28°18 | 28°43 | 11° 4 | 12°52 | 3°36 | 6°10 | M18 |
| T 19 | 11 48 3 | 28°55'04 | 14° 1 | 17°28 | 1°24 | 29° 3 | 5°44 | 20°45 | 3°43 | 28°19 | 28°43 | 10°59 | 12°48 | 3°42 | 6°14 | T 19 |
| W20 | 11 51 59 | 29°54'29 | 26°50 | 18°23 | 2°37 | 29°47 | 5°53 | 20°51 | 3°46 | 28°21 | 28°43 | 10°56 | 12°45 | 3°49 | 6°17 | W20 |
| T 21 | 11 55 56 | 0 ℃ 53'52 | 9 M .49 | 19°11 | 3°51 | 0 8 30 | 6° 2 | 20°58 | 3°50 | 28°22 | 28°43 | 10°D55 | 12°42 | 3°56 | 6°21 | T 21 |
| F 22 | 11 59 52 | 1°53'13 | 23° 2 | 19°52 | 5° 4 | 1°14 | 6°12 | 21° 4 | 3°53 | 28°23 | 28°44 | 10°56 | 12°39 | 4° 3 | 6°25 | F 22 |
| S 23 | 12 3 49 | 2°52'32 | 6 ₹ 27 | 20°25 | 6°18 | 1°57 | 6°21 | 21°10 | 3°56 | 28°25 | 28°44 | 10°57 | 12°36 | 4° 9 | 6°28 | S 23 |
| S 24 | 12 7 46 | 3°51'50 | 20° 6 | 20°51 | 7°31 | 2°40 | 6°30 | 21°16 | 3°59 | 28°26 | 28°44 | 10°58 | 12°32 | 4°16 | 6°32 | S 24 |
| M25 | 12 11 42 | 4°51'06 | 4る 0 | 21° 9 | 8°45 | 3°24 | 6°40 | 21°22 | 4° 2 | 28°27 | 28°44 | 10°R59 | 12°29 | 4°23 | 6°36 | M25 |
| T 26 | 12 15 39 | 5°50'20 | 18° 8 | 21°20 | 9°58 | 4° 7 | 6°50 | 21°27 | 4° 5 | 28°28 | 28°45 | 10°58 | 12°26 | 4°29 | 6°39 | T 26 |
| W27 | 12 19 35 | 6°49'32 | 2≈29 | 21°R24 | 11°12 | 4°50 | 7° 0 | 21°33 | 4° 8 | 28°29 | 28°45 | 10°56 | 12°23 | 4°36 | 6°43 | W27 |
| T 28 | 12 23 32 | 7°48'43 | 17° 0 | 21°21 | 12°25 | 5°33 | 7°10 | 21°39 | 4°11 | 28°30 | 28°45 | 10°53 | 12°20 | 4°43 | 6°46 | T 28 |
| F 29 | 12 27 28 | 8°47'51 | 1 ∺ 36 | 21°11 | 13°39 | 6°16 | 7°20 | 21°45 | 4°14 | 28°31 | 28°46 | 10°48 | 12°17 | 4°50 | 6°50 | F 29 |
| S 30 | 12 31 25 | 9°46'58 | 16°11 | 20°54 | 14°53 | 6°59 | 7°30 | 21°50 | 4°17 | 28°32 | 28°46 | 10°43 | 12°13 | 4°56 | 6°53 | S 30 |
| S 31 | 12 35 21 | 10 Y 46'03 | 0 Υ 39 | 20 Y 31 | 16 ∺ 6 | 7 8 42 | 7 Ⅱ 40 | 21≈56 | 4) €20 | 28 궁 33 | 28∏46 | 10 8 39 | 12810 | 5 Ω 3 | 6 ¥ 57 | S 31 |

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Greg. Calendar

APRIL 1669 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)f(| ¥ | Р | v | v | Ç | ę, | Day |
|------|----------|-------------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------|--------|----------------|---------------|-----------------|------|
| M 1 | 12 39 18 | 11 ° 45'05 | 14 Y 53 | 20°R 3 | 17) 20 | 8 8 25 | 7 Ⅱ 51 | 22≈ 1 | 4) €23 | 28 궁 34 | 28 Ⅱ 47 | 10°R36 | 12 8 7 | 5 Ω 10 | 7) € 0 | M 1 |
| T 2 | 12 43 15 | 12°44'06 | 28°48 | 19 Y 30 | 18°33 | 9° 8 | 8° 1 | 22° 7 | 4°26 | 28°35 | 28°47 | 10834 | 12° 4 | 5°17 | 7° 4 | T 2 |
| W 3 | 12 47 11 | 13°43'04 | 12821 | 18°53 | 19°47 | 9°51 | 8°12 | 22°12 | 4°29 | 28°36 | 28°48 | 10°D34 | 12° 1 | 5°23 | 7° 7 | W 3 |
| T 4 | 12 51 8 | 14°42'01 | 25°31 | 18°13 | 21° 0 | 10°34 | 8°22 | 22°17 | 4°32 | 28°37 | 28°48 | 10°34 | 11°57 | 5°30 | 7°10 | T 4 |
| F 5 | 12 55 4 | 15°40'55 | 8 Ⅱ 19 | 17°30 | 22°14 | 11°17 | 8°33 | 22°23 | 4°34 | 28°38 | 28°49 | 10°36 | 11°54 | 5°37 | 7°14 | F 5 |
| S 6 | 12 59 1 | 16°39'47 | 20°48 | 16°45 | 23°28 | 11°59 | 8°44 | 22°28 | 4°37 | 28°39 | 28°49 | 10°37 | 11°51 | 5°43 | 7°17 | S 6 |
| S 7 | 13 2 57 | 17°38'37 | 3 9 1 | 16° 0 | 24°41 | 12°42 | 8°55 | 22°33 | 4°40 | 28°40 | 28°50 | 10°39 | 11°48 | 5°50 | 7°20 | S 7 |
| M 8 | 13 6 54 | 18°37'25 | 15° 2 | 15°14 | 25°55 | 13°25 | 9° 6 | 22°38 | 4°43 | 28°40 | 28°51 | 10°R40 | 11°45 | 5°57 | 7°23 | M 8 |
| T 9 | 13 10 50 | 19°36'10 | 26°57 | 14°30 | 27° 8 | 14° 7 | 9°17 | 22°43 | 4°45 | 28°41 | 28°51 | 10°39 | 11°42 | 6° 4 | 7°26 | T 9 |
| W10 | 13 14 47 | 20°34'53 | 8 Ω 49 | 13°47 | 28°22 | 14°50 | 9°28 | 22°48 | 4°48 | 28°42 | 28°52 | 10°38 | 11°38 | 6°10 | 7°30 | W10 |
| T 11 | 13 18 44 | 21°33'34 | 20°45 | 13° 7 | 29°35 | 15°32 | 9°40 | 22°53 | 4°51 | 28°42 | 28°53 | 10°36 | 11°35 | 6°17 | 7°33 | T 11 |
| F 12 | 13 22 40 | 22°32'12 | 2 Mp 46 | 12°30 | 0 Υ 49 | 16°15 | 9°51 | 22°58 | 4°53 | 28°43 | 28°53 | 10°34 | 11°32 | 6°24 | 7°36 | F 12 |
| S 13 | 13 26 37 | 23°30'49 | 14°58 | 11°56 | 2° 2 | 16°57 | 10° 2 | 23° 2 | 4°56 | 28°44 | 28°54 | 10°31 | 11°29 | 6°30 | 7°39 | S 13 |
| S 14 | 13 30 33 | 24°29'23 | 27°22 | 11°26 | 3°16 | 17°39 | 10°14 | 23° 7 | 4°58 | 28°44 | 28°55 | 10°29 | 11°26 | 6°37 | 7°42 | S 14 |
| M15 | 13 34 30 | 25°27'55 | 10 ♀ 1 | 11° 1 | 4°29 | 18°22 | 10°26 | 23°12 | 5° 1 | 28°45 | 28°55 | 10°27 | 11°23 | 6°44 | 7°45 | M15 |
| T 16 | 13 38 26 | 26°26'25 | 22°54 | 10°41 | 5°43 | 19° 4 | 10°37 | 23°16 | 5° 3 | 28°45 | 28°56 | 10°25 | 11°19 | 6°51 | 7°48 | T 16 |
| W17 | 13 42 23 | 27°24'53 | 6 M 4 | 10°25 | 6°57 | 19°46 | 10°49 | 23°21 | 5° 6 | 28°46 | 28°57 | 10°D25 | 11°16 | 6°57 | 7°50 | W17 |
| T 18 | 13 46 19 | 28°23'20 | 19°27 | 10°14 | 8°10 | 20°28 | 11° 1 | 23°25 | 5° 8 | 28°46 | 28°58 | 10°25 | 11°13 | 7° 4 | 7°53 | T 18 |
| F 19 | 13 50 16 | 29°21'44 | 3 √ 4 | 10° 9 | 9°24 | 21°10 | 11°13 | 23°29 | 5°10 | 28°46 | 28°58 | 10°25 | 11°10 | 7°11 | 7°56 | F 19 |
| S 20 | 13 54 12 | 0820'07 | 16°52 | 10°D 8 | 10°37 | 21°53 | 11°25 | 23°33 | 5°13 | 28°47 | 28°59 | 10°26 | 11° 7 | 7°18 | 7°59 | S 20 |
| S 21 | 13 58 9 | 1°18'29 | 0 궁 50 | 10°12 | 11°51 | 22°35 | 11°37 | 23°38 | 5°15 | 28°47 | 29° 0 | 10°27 | 11° 3 | 7°24 | 8° 2 | S 21 |
| M22 | 14 2 6 | 2°16'49 | 14°56 | 10°22 | 13° 4 | 23°17 | 11°49 | 23°42 | 5°17 | 28°47 | 29° 1 | 10°28 | 11° 0 | 7°31 | 8° 4 | M22 |
| T 23 | 14 6 2 | 3°15'07 | 29° 7 | 10°35 | 14°18 | 23°59 | 12° 1 | 23°46 | 5°20 | 28°48 | 29° 2 | 10°R28 | 10°57 | 7°38 | 8° 7 | T 23 |
| W24 | 14 9 59 | 4°13'24 | 13 ≈ 21 | 10°54 | 15°31 | 24°40 | 12°13 | 23°49 | 5°22 | 28°48 | 29° 3 | 10°28 | 10°54 | 7°44 | 8° 9 | W24 |
| T 25 | 14 13 55 | 5°11'39 | 27°36 | 11°17 | 16°45 | 25°22 | 12°26 | 23°53 | 5°24 | 28°48 | 29° 4 | 10°28 | 10°51 | 7°51 | 8°12 | T 25 |
| F 26 | 14 17 52 | 6° 9'53 | 11) 48 | 11°45 | 17°58 | 26° 4 | 12°38 | 23°57 | 5°26 | 28°48 | 29° 5 | 10°27 | 10°48 | 7°58 | 8°15 | F 26 |
| S 27 | 14 21 48 | 7° 8'05 | 25°55 | 12°16 | 19°12 | 26°46 | 12°50 | 24° 1 | 5°28 | 28°48 | 29° 6 | 10°27 | 10°44 | 8° 5 | 8°17 | S 27 |
| S 28 | 14 25 45 | 8° 6'16 | 9 Ƴ 54 | 12°52 | 20°25 | 27°28 | 13° 3 | 24° 4 | 5°30 | 28°48 | 29° 7 | 10°26 | 10°41 | 8°11 | 8°19 | S 28 |
| M29 | 14 29 41 | 9° 4'25 | 23°41 | 13°32 | 21°39 | 28° 9 | 13°16 | 24° 8 | 5°32 | 28°48 | 29° 8 | 10°26 | 10°38 | 8°18 | 8°22 | M29 |
| T 30 | 14 33 38 | 108 2'32 | 7 8 14 | 14 Y 15 | 22 Y 53 | 28 8 51 | 13 Ⅲ 28 | 24≈11 | 5) 34 | 28°R48 | 29Ⅱ 9 | 10826 | 10 8 35 | $8\Omega 25$ | 8) (24 | T 30 |

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|------|----------|------------------|-----------------|---------------|---------------|----------------|----------------|-------|----------------|----------------|----------------|--------|----------------|----------------|---------------|------|
| W 1 | 14 37 35 | 118 0'38 | 20 8 31 | 15 ° 2 | 24 Y 6 | 29 8 33 | 13 Ⅱ 41 | 24≈14 | 5) €36 | 28°R48 | 29∏10 | 10°R26 | 10 8 32 | 8 N 31 | 8 ∺ 26 | W 1 |
| T 2 | 14 41 31 | 11°58'42 | 3耳30 | 15°52 | 25°20 | 0 Ⅱ 14 | 13°53 | 24°18 | 5°38 | 28 중 48 | 29°11 | 10826 | 10°29 | 8°38 | 8°29 | T 2 |
| F 3 | 14 45 28 | 12°56'45 | 16°13 | 16°45 | 26°33 | 0°56 | 14° 6 | 24°21 | 5°39 | 28°48 | 29°12 | 10°26 | 10°25 | 8°45 | 8°31 | F 3 |
| S 4 | 14 49 24 | 13°54'46 | 28°39 | 17°42 | 27°47 | 1°37 | 14°19 | 24°24 | 5°41 | 28°48 | 29°13 | 10°26 | 10°22 | 8°52 | 8°33 | S 4 |
| S 5 | 14 53 21 | 14°52'44 | 10952 | 18°42 | 29° 0 | 2°18 | 14°32 | 24°27 | 5°43 | 28°48 | 29°14 | 10°25 | 10°19 | 8°58 | 8°35 | S 5 |
| M 6 | 14 57 17 | 15°50'42 | 22°55 | 19°45 | 0814 | 3° 0 | 14°45 | 24°30 | 5°45 | 28°48 | 29°15 | 10°25 | 10°16 | 9° 5 | 8°37 | M 6 |
| T 7 | 15 1 14 | 16°48'37 | 4 Ω 50 | 20°50 | 1°27 | 3°41 | 14°58 | 24°32 | 5°46 | 28°48 | 29°16 | 10°24 | 10°13 | 9°12 | 8°39 | T 7 |
| W 8 | 15 5 10 | 17°46'30 | 16°43 | 21°59 | 2°41 | 4°23 | 15°11 | 24°35 | 5°48 | 28°48 | 29°17 | 10°D24 | 10° 9 | 9°19 | 8°41 | W 8 |
| T 9 | 15 9 7 | 18°44'22 | 28°39 | 23°10 | 3°54 | 5° 4 | 15°24 | 24°38 | 5°49 | 28°47 | 29°18 | 10°24 | 10° 6 | 9°25 | 8°43 | T 9 |
| F 10 | 15 13 4 | 19°42'12 | 10 m p41 | 24°23 | 5° 8 | 5°45 | 15°37 | 24°40 | 5°51 | 28°47 | 29°20 | 10°25 | 10° 3 | 9°32 | 8°45 | F 10 |
| S 11 | 15 17 0 | 20°40'00 | 22°54 | 25°40 | 6°21 | 6°26 | 15°50 | 24°43 | 5°52 | 28°47 | 29°21 | 10°26 | 10° 0 | 9°39 | 8°46 | S 11 |
| S 12 | 15 20 57 | 21°37'46 | 5 Ω 22 | 26°58 | 7°35 | 7° 7 | 16° 3 | 24°45 | 5°54 | 28°46 | 29°22 | 10°27 | 9°57 | 9°45 | 8°48 | S 12 |
| M13 | 15 24 53 | 22°35'31 | 18° 9 | 28°20 | 8°48 | 7°48 | 16°16 | 24°47 | 5°55 | 28°46 | 29°23 | 10°28 | 9°54 | 9°52 | 8°50 | M13 |
| T 14 | 15 28 50 | 23°33'15 | 1 M .15 | 29°43 | 10° 2 | 8°29 | 16°29 | 24°49 | 5°56 | 28°46 | 29°24 | 10°28 | 9°50 | 9°59 | 8°51 | T 14 |
| W15 | 15 32 46 | 24°30'56 | 14°42 | 1 8 9 | 11°15 | 9°10 | 16°43 | 24°51 | 5°58 | 28°45 | 29°26 | 10°R28 | 9°47 | 10° 6 | 8°53 | W15 |
| T 16 | 15 36 43 | 25°28'37 | 28°29 | 2°38 | 12°29 | 9°51 | 16°56 | 24°53 | 5°59 | 28°45 | 29°27 | 10°28 | 9°44 | 10°12 | 8°55 | T 16 |
| F 17 | 15 40 39 | 26°26'16 | 12 ~ 32 | 4° 9 | 13°42 | 10°32 | 17° 9 | 24°55 | 6° 0 | 28°44 | 29°28 | 10°26 | 9°41 | 10°19 | 8°56 | F 17 |
| S 18 | 15 44 36 | 27°23'54 | 26°49 | 5°42 | 14°56 | 11°13 | 17°23 | 24°57 | 6° 1 | 28°44 | 29°29 | 10°24 | 9°38 | 10°26 | 8°57 | S 18 |
| S 19 | 15 48 33 | 28°21'31 | 11 궁 14 | 7°17 | 16° 9 | 11°54 | 17°36 | 24°58 | 6° 2 | 28°43 | 29°31 | 10°22 | 9°35 | 10°33 | 8°59 | S 19 |
| M20 | 15 52 29 | 29°19'07 | 25°41 | 8°55 | 17°23 | 12°35 | 17°49 | 25° 0 | 6° 3 | 28°42 | 29°32 | 10°20 | 9°31 | 10°39 | 9° 0 | M20 |
| T 21 | 15 56 26 | 0 Ⅱ 16'42 | 10≈ 6 | 10°35 | 18°36 | 13°15 | 18° 3 | 25° 2 | 6° 4 | 28°42 | 29°33 | 10°18 | 9°28 | 10°46 | 9° 1 | T 21 |
| W22 | 16 0 22 | 1°14'16 | 24°24 | 12°17 | 19°50 | 13°56 | 18°16 | 25° 3 | 6° 5 | 28°41 | 29°35 | 10°17 | 9°25 | 10°53 | 9° 3 | W22 |
| T 23 | 16 4 19 | 2°11'50 | 8) (34 | 14° 2 | 21° 3 | 14°37 | 18°30 | 25° 4 | 6° 6 | 28°40 | 29°36 | 10°D17 | 9°22 | 10°59 | 9° 4 | T 23 |
| F 24 | 16 8 15 | 3° 9'22 | 22°32 | 15°49 | 22°17 | 15°18 | 18°43 | 25° 5 | 6° 7 | 28°40 | 29°37 | 10°18 | 9°19 | 11° 6 | 9° 5 | F 24 |
| S 25 | 16 12 12 | 4° 6'53 | 6 Ƴ 19 | 17°38 | 23°30 | 15°58 | 18°57 | 25° 6 | 6° 8 | 28°39 | 29°39 | 10°19 | 9°15 | 11°13 | 9° 6 | S 25 |
| S 26 | 16 16 9 | 5° 4'24 | 19°52 | 19°30 | 24°44 | 16°39 | 19°10 | 25° 7 | 6° 9 | 28°38 | 29°40 | 10°21 | 9°12 | 11°20 | 9° 7 | S 26 |
| M27 | 16 20 5 | 6° 1'54 | 3 8 13 | 21°24 | 25°57 | 17°19 | 19°24 | 25° 8 | 6° 9 | 28°37 | 29°41 | 10°22 | 9° 9 | 11°26 | 9°8 | M27 |
| T 28 | 16 24 2 | 6°59'23 | 16°22 | 23°19 | 27°11 | 18° 0 | 19°38 | 25° 9 | 6°10 | 28°37 | 29°43 | 10°R22 | 9° 6 | 11°33 | 9° 9 | T 28 |
| W29 | 16 27 58 | 7°56'51 | 29°17 | 25°18 | 28°25 | 18°40 | 19°51 | 25°10 | 6°11 | 28°36 | 29°44 | 10°21 | 9° 3 | 11°40 | 9° 9 | W29 |
| T 30 | 16 31 55 | 8°54'18 | 12 II 0 | 27°18 | 29°38 | 19°21 | 20° 5 | 25°10 | 6°11 | 28°35 | 29°45 | 10°18 | 9° 0 | 11°47 | 9°10 | T 30 |
| F 31 | 16 35 51 | 9∏51'44 | 24Ⅲ31 | 29820 | 0Д52 | 20耳 1 | 20 Ⅱ 19 | 25≈11 | 6 ¥ 12 | 28 궁 34 | 29 Ⅱ 47 | 10814 | 8 8 56 | 11 £ 53 | 9 米 11 | F 31 |

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Greg. Calendar

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| Day | Sid.t | 0 | D | φ | φ | ď | 4 | ħ |)Å(| 卉 | В | U | ಬ | Ç | ę, | Day |
|------|----------|-------------------|----------------|--------|----------------|----------------|----------------|--------|---------------|----------------|-------|---------------|---------------|----------------|---------------|------|
| S 1 | 16 39 48 | 10 Ⅱ 49'10 | 6949 | 1∏24 | 2 II 5 | 20 Ⅱ 41 | 20 Ⅲ 32 | 25≈11 | 6 ∺ 12 | 28°R33 | 29∏48 | 10°R 9 | 8 8 53 | 12 0 0 | 9 米 12 | S 1 |
| S 2 | 16 43 44 | 11°46'34 | 18°58 | 3°29 | 3°19 | 21°22 | 20°46 | 25°12 | 6°12 | 28중32 | 29°50 | 108 4 | 8°50 | 12° 7 | 9°12 | S 2 |
| M 3 | 16 47 41 | 12°43'58 | 0 Ω 58 | 5°37 | 4°32 | 22° 2 | 21° 0 | 25°12 | 6°13 | 28°31 | 29°51 | 9°58 | 8°47 | 12°13 | 9°13 | M 3 |
| T 4 | 16 51 38 | 13°41'20 | 12°52 | 7°45 | 5°46 | 22°42 | 21°13 | 25°R12 | 6°13 | 28°30 | 29°52 | 9°54 | 8°44 | 12°20 | 9°13 | T 4 |
| W 5 | 16 55 34 | 14°38'41 | 24°44 | 9°55 | 6°59 | 23°22 | 21°27 | 25°12 | 6°13 | 28°29 | 29°54 | 9°51 | 8°41 | 12°27 | 9°14 | W 5 |
| T 6 | 16 59 31 | 15°36'01 | 6 m 38 | 12° 6 | 8°13 | 24° 3 | 21°41 | 25°12 | 6°14 | 28°28 | 29°55 | 9°49 | 8°37 | 12°34 | 9°14 | T 6 |
| F 7 | 17 3 27 | 16°33'20 | 18°39 | 14°17 | 9°27 | 24°43 | 21°55 | 25°12 | 6°14 | 28°27 | 29°57 | 9°D48 | 8°34 | 12°40 | 9°14 | F 7 |
| S 8 | 17 7 24 | 17°30'39 | 0 ჲ 50 | 16°29 | 10°40 | 25°23 | 22° 8 | 25°11 | 6°14 | 28°26 | 29°58 | 9°49 | 8°31 | 12°47 | 9°14 | S 8 |
| S 9 | 17 11 20 | 18°27'56 | 13°18 | 18°41 | 11°54 | 26° 3 | 22°22 | 25°11 | 6°14 | 28°25 | 29°59 | 9°50 | 8°28 | 12°54 | 9°15 | S 9 |
| M10 | 17 15 17 | 19°25'12 | 26° 5 | 20°53 | 13° 7 | 26°43 | 22°36 | 25°10 | 6°R14 | 28°23 | 0ରେ 1 | 9°52 | 8°25 | 13° 0 | 9°15 | M10 |
| T 11 | 17 19 13 | 20°22'28 | 9 ™ 17 | 23° 4 | 14°21 | 27°23 | 22°49 | 25°10 | 6°14 | 28°22 | 0° 2 | 9°R53 | 8°21 | 13° 7 | 9°15 | T 11 |
| W12 | 17 23 10 | 21°19'43 | 22°53 | 25°15 | 15°35 | 28° 3 | 23° 3 | 25° 9 | 6°14 | 28°21 | 0° 4 | 9°52 | 8°18 | 13°14 | 9°R15 | W12 |
| T 13 | 17 27 7 | 22°16'57 | 6 ₹ 55 | 27°25 | 16°48 | 28°43 | 23°17 | 25° 8 | 6°14 | 28°20 | 0° 5 | 9°49 | 8°15 | 13°21 | 9°15 | T 13 |
| F 14 | 17 31 3 | 23°14'11 | 2 <u>1</u> °20 | 29°34 | 18° 2 | 29°23 | 23°31 | 25° 7 | 6°14 | 28°19 | 0° 7 | 9°45 | 8°12 | 13°27 | 9°15 | F 14 |
| S 15 | 17 35 0 | 24°11'24 | 6 ප 2 | 19541 | 19°15 | 099 3 | 23°44 | 25° 6 | 6°13 | 28°17 | 0° 8 | 9°39 | 8° 9 | 13°34 | 9°14 | S 15 |
| S 16 | 17 38 56 | 25° 8'37 | 20°53 | 3°47 | 20°29 | 0°42 | 23°58 | 25° 5 | 6°13 | 28°16 | 0°10 | 9°32 | 8° 6 | 13°41 | 9°14 | S 16 |
| M17 | 17 42 53 | 26° 5'50 | 5≈46 | 5°51 | 21°43 | 1°22 | 24°12 | 25° 4 | 6°13 | 28°15 | 0°11 | 9°26 | 8° 2 | 13°48 | 9°14 | M17 |
| T 18 | 17 46 49 | 27° 3'02 | 20°31 | 7°53 | 22°56 | 2° 2 | 24°26 | 25° 3 | 6°13 | 28°13 | 0°13 | 9°20 | 7°59 | 13°54 | 9°14 | T 18 |
| W19 | 17 50 46 | 28° 0'14 | 5) 4 | 9°54 | 24°10 | 2°42 | 24°39 | 25° 2 | 6°12 | 28°12 | 0°14 | 9°16 | 7°56 | 14° 1 | 9°13 | W19 |
| T 20 | 17 54 42 | 28°57'27 | 19°19 | 11°53 | 25°24 | 3°21 | 24°53 | 25° 0 | 6°12 | 28°11 | 0°16 | 9°14 | 7°53 | 14° 8 | 9°13 | T 20 |
| F 21 | 17 58 39 | 29°54'39 | 3 Υ 14 | 13°49 | 26°37 | 4° 1 | 25° 7 | 24°59 | 6°11 | 28° 9 | 0°17 | 9°D14 | 7°50 | 14°14 | 9°12 | F 21 |
| S 22 | 18 2 36 | 0951'51 | 16°50 | 15°44 | 27°51 | 4°41 | 25°21 | 24°57 | 6°11 | 28° 8 | 0°19 | 9°15 | 7°47 | 14°21 | 9°12 | S 22 |
| S 23 | 18 6 32 | 1°49'03 | 8 B 0 | 17°37 | 29° 5 | 5°20 | 25°34 | 24°55 | 6°10 | 28° 7 | 0°20 | 9°15 | 7°43 | 14°28 | 9°11 | S 23 |
| M24 | 18 10 29 | 2°46'15 | 13°10 | 19°27 | 09518 | 6° 0 | 25°48 | 24°53 | 6° 9 | 28° 5 | 0°22 | 9°R16 | 7°40 | 14°35 | 9°10 | M24 |
| T 25 | 18 14 25 | 3°43'28 | 25°58 | 21°15 | 1°32 | 6°39 | 26° 2 | 24°52 | 6° 9 | 28° 4 | 0°23 | 9°14 | 7°37 | 14°41 | 9°10 | T 25 |
| W26 | 18 18 22 | 4°40'41 | 8 Ⅱ 34 | 23° 2 | 2°46 | 7°19 | 26°15 | 24°50 | 6° 8 | 28° 2 | 0°25 | 9°11 | 7°34 | 14°48 | 9° 9 | W26 |
| T 27 | 18 22 18 | 5°37'53 | 21° 0 | 24°46 | 3°59 | 7°58 | 26°29 | 24°48 | 6° 7 | 28° 1 | 0°26 | 9° 5 | 7°31 | 14°55 | 9°8 | T 27 |
| F 28 | 18 26 15 | 6°35'06 | 39917 | 26°28 | 5°13 | 8°38 | 26°43 | 24°45 | 6° 6 | 27°59 | 0°27 | 8°56 | 7°27 | 15° 2 | 9° 7 | F 28 |
| S 29 | 18 30 11 | 7°32'19 | 15°26 | 28° 7 | 6°27 | 9°17 | 26°56 | 24°43 | 6° 6 | 27°58 | 0°29 | 8°46 | 7°24 | 15° 8 | 9° 6 | S 29 |
| S 30 | 18 34 8 | 8929'31 | 279528 | 299545 | 7 9 641 | 9957 | 27 Ⅱ 10 | 24≈41 | 6 米 5 | 27 る 56 | 0930 | 8 8 35 | 7 8 21 | 15 Ω 15 | 9 米 5 | S 30 |

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JULY 1669 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)f(| ¥ | Р | ß | ß | Ç | ç | Day |
|------|----------|--------------------|----------------|----------------|----------------|--------------|-------|--------|---------------|----------------|-------|---------------|---------------|----------------|---------------|------|
| M 1 | 18 38 5 | 99526'44 | 9 Ω 24 | 1 N 2 1 | 8954 | 10936 | 27Ⅲ23 | 24°R38 | 6°R 4 | 27°R55 | 0932 | 8°R24 | 7 8 18 | 15 Ω 22 | 9°R 4 | M 1 |
| T 2 | 18 42 1 | 10°23'56 | 21°16 | 2°54 | 10° 8 | 11°15 | 27°37 | 24≈36 | 6 ∺ 3 | 27 云 53 | 0°33 | 8 8 14 | 7°15 | 15°28 | 9 ∺ 3 | T 2 |
| W 3 | 18 45 58 | 11°21'09 | 3 m) 7 | 4°25 | 11°22 | 11°55 | 27°50 | 24°33 | 6° 2 | 27°52 | 0°35 | 8° 6 | 7°12 | 15°35 | 9° 2 | W 3 |
| T 4 | 18 49 54 | 12°18'21 | 14°59 | 5°54 | 12°36 | 12°34 | 28° 4 | 24°31 | 6° 1 | 27°50 | 0°36 | 8° 0 | 7° 8 | 15°42 | 9° 1 | T 4 |
| F 5 | 18 53 51 | 13°15'33 | 26°58 | 7°21 | 13°50 | 13°13 | 28°17 | 24°28 | 5°59 | 27°49 | 0°38 | 7°57 | 7° 5 | 15°49 | 9° 0 | F 5 |
| S 6 | 18 57 47 | 14°12'45 | 9 ≙ 7 | 8°46 | 15° 3 | 13°53 | 28°31 | 24°25 | 5°58 | 27°47 | 0°39 | 7°D55 | 7° 2 | 15°55 | 8°58 | S 6 |
| S 7 | 19 1 44 | 15° 9'57 | 21°31 | 10° 8 | 16°17 | 14°32 | 28°44 | 24°22 | 5°57 | 27°46 | 0°41 | 7°55 | 6°59 | 16° 2 | 8°57 | S 7 |
| M 8 | 19 5 40 | 16° 7'09 | 4 M .15 | 11°28 | 17°31 | 15°11 | 28°58 | 24°19 | 5°56 | 27°44 | 0°42 | 7°R56 | 6°56 | 16° 9 | 8°55 | M 8 |
| T 9 | 19 9 37 | 17° 4'21 | 17°24 | 12°46 | 18°45 | 15°50 | 29°11 | 24°16 | 5°55 | 27°42 | 0°43 | 7°55 | 6°53 | 16°15 | 8°54 | T 9 |
| W10 | 19 13 34 | 18° 1'34 | 1 🗷 1 | 14° 1 | 19°59 | 16°29 | 29°24 | 24°13 | 5°53 | 27°41 | 0°45 | 7°53 | 6°49 | 16°22 | 8°52 | W10 |
| T 11 | 19 17 30 | 18°58'46 | 15° 7 | 15°14 | 21°12 | 17° 8 | 29°38 | 24°10 | 5°52 | 27°39 | 0°46 | 7°49 | 6°46 | 16°29 | 8°51 | T 11 |
| F 12 | 19 21 27 | 19°55'59 | 29°41 | 16°24 | 22°26 | 17°47 | 29°51 | 24° 6 | 5°50 | 27°38 | 0°48 | 7°42 | 6°43 | 16°36 | 8°49 | F 12 |
| S 13 | 19 25 23 | 20°53'12 | 14 궁 37 | 17°32 | 23°40 | 18°26 | 095 4 | 24° 3 | 5°49 | 27°36 | 0°49 | 7°34 | 6°40 | 16°42 | 8°48 | S 13 |
| S 14 | 19 29 20 | 21°50'26 | 29°46 | 18°37 | 24°54 | 19° 5 | 0°17 | 24° 0 | 5°47 | 27°34 | 0°50 | 7°24 | 6°37 | 16°49 | 8°46 | S 14 |
| M15 | 19 33 16 | 22°47'40 | 14≈59 | 19°40 | 26° 8 | 19°44 | 0°31 | 23°56 | 5°46 | 27°33 | 0°52 | 7°13 | 6°33 | 16°56 | 8°44 | M15 |
| T 16 | 19 37 13 | 23°44'54 | 0 米 5 | 20°39 | 27°22 | 20°23 | 0°44 | 23°53 | 5°44 | 27°31 | 0°53 | 7° 5 | 6°30 | 17° 3 | 8°42 | T 16 |
| W17 | 19 41 10 | 24°42'09 | 14°55 | 21°36 | 28°36 | 21° 2 | 0°57 | 23°49 | 5°43 | 27°30 | 0°55 | 6°58 | 6°27 | 17° 9 | 8°41 | W17 |
| T 18 | 19 45 6 | 25°39'25 | 29°21 | 22°29 | 29°50 | 21°41 | 1°10 | 23°46 | 5°41 | 27°28 | 0°56 | 6°53 | 6°24 | 17°16 | 8°39 | T 18 |
| F 19 | 19 49 3 | 26°36'42 | 13 Y 23 | 23°19 | 1Ω 3 | 22°20 | 1°23 | 23°42 | 5°40 | 27°26 | 0°57 | 6°51 | 6°21 | 17°23 | 8°37 | F 19 |
| S 20 | 19 52 59 | 27°34'00 | 26°59 | 24° 6 | 2°17 | 22°59 | 1°36 | 23°38 | 5°38 | 27°25 | 0°59 | 6°D51 | 6°18 | 17°29 | 8°35 | S 20 |
| S 21 | 19 56 56 | 28°31'19 | 10 8 11 | 24°49 | 3°31 | 23°38 | 1°49 | 23°34 | 5°36 | 27°23 | 1° 0 | 6°R51 | 6°14 | 17°36 | 8°33 | S 21 |
| M22 | 20 0 52 | 29°28'39 | 23° 4 | 25°29 | 4°45 | 24°17 | 2° 2 | 23°30 | 5°34 | 27°21 | 1° 1 | 6°50 | 6°11 | 17°43 | 8°31 | M22 |
| T 23 | 20 4 49 | 0 Ω 26'00 | 5 Ⅱ 40 | 26° 5 | 5°59 | 24°56 | 2°15 | 23°26 | 5°33 | 27°20 | 1° 3 | 6°48 | 6° 8 | 17°50 | 8°29 | T 23 |
| W24 | 20 8 45 | 1°23'22 | 18° 4 | 26°36 | 7°13 | 25°34 | 2°27 | 23°22 | 5°31 | 27°18 | 1° 4 | 6°43 | 6° 5 | 17°56 | 8°26 | W24 |
| T 25 | 20 12 42 | 2°20'45 | 09্ড17 | 27° 4 | 8°27 | 26°13 | 2°40 | 23°18 | 5°29 | 27°17 | 1° 5 | 6°35 | 6° 2 | 18° 3 | 8°24 | T 25 |
| F 26 | 20 16 39 | 3°18'09 | 12°22 | 27°27 | 9°41 | 26°52 | 2°53 | 23°14 | 5°27 | 27°15 | 1° 6 | 6°24 | 5°59 | 18°10 | 8°22 | F 26 |
| S 27 | 20 20 35 | 4°15'34 | 24°22 | 27°46 | 10°55 | 27°31 | 3° 6 | 23°10 | 5°25 | 27°13 | 1° 8 | 6°11 | 5°55 | 18°16 | 8°20 | S 27 |
| S 28 | 20 24 32 | 5°13'00 | 6 Ω 18 | 28° 0 | 12° 9 | 28° 9 | 3°18 | 23° 6 | 5°23 | 27°12 | 1° 9 | 5°57 | 5°52 | 18°23 | 8°18 | S 28 |
| M29 | 20 28 28 | 6°10'26 | 18°10 | 28° 9 | 13°23 | 28°48 | 3°31 | 23° 2 | 5°21 | 27°10 | 1°10 | 5°43 | 5°49 | 18°30 | 8°15 | M29 |
| T 30 | 20 32 25 | 7° 7'54 | 0Mg 2 | 28°R13 | 14°37 | 29°27 | 3°43 | 22°58 | 5°19 | 27° 8 | 1°11 | 5°30 | 5°46 | 18°37 | 8°13 | T 30 |
| W31 | 20 36 21 | 8 Ω 5'22 | 11 M 53 | 28 Ω 12 | 15 Ω 51 | 0 Ω 5 | 3956 | 22≈53 | 5) 17 | 27중 7 | 19913 | 5 8 20 | 5 8 43 | 18 Ω 43 | 8 ∺ 10 | W31 |

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Greg. Calendar

| AUGUST 1669 GC | 00:00 UT |
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| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)∤(| ¥ | Р | V | Ω | Ç | ę, | Day |
|------|----------|--------------------|------------------|----------------|----------------|----------------|-------|--------|---------------|-----------------|-------|--------------|---------------|----------------|---------------|------|
| T 1 | 20 40 18 | 9⋒ 2'52 | 23 m) 47 | 28°R 6 | 17 Ω 5 | 0Ω44 | 499 8 | 22°R49 | 5°R15 | 27°R 5 | 19914 | 5°R12 | 5 8 39 | 18 Ω 50 | 8°R 8 | T 1 |
| F 2 | 20 44 14 | 10° 0'22 | 5 <u>م</u> 46 | 27 Ω 54 | 18°19 | 1°22 | 4°20 | 22≈45 | 5) 13 | 27る 4 | 1°15 | 5 8 6 | 5°36 | 18°57 | 8 米 6 | F 2 |
| S 3 | 20 48 11 | 10°57'53 | 17°55 | 27°37 | 19°33 | 2° 1 | 4°33 | 22°40 | 5°11 | 27° 2 | 1°16 | 5° 4 | 5°33 | 19° 4 | 8° 3 | S 3 |
| S 4 | 20 52 8 | 11°55'24 | 0 M .18 | 27°15 | 20°47 | 2°40 | 4°45 | 22°36 | 5° 9 | 27° 1 | 1°17 | 5° 3 | 5°30 | 19°10 | 8° 1 | S 4 |
| M 5 | 20 56 4 | 12°52'57 | 12°59 | 26°47 | 22° 1 | 3°18 | 4°57 | 22°32 | 5° 7 | 26°59 | 1°19 | 5° 3 | 5°27 | 19°17 | 7°58 | M 5 |
| T 6 | 21 0 1 | 13°50'31 | 26° 3 | 26°15 | 23°16 | 3°57 | 5° 9 | 22°27 | 5° 4 | 26°57 | 1°20 | 5° 3 | 5°24 | 19°24 | 7°55 | T 6 |
| W 7 | 21 3 57 | 14°48'05 | 9 ∡ ³34 | 25°38 | 24°30 | 4°35 | 5°21 | 22°23 | 5° 2 | 26°56 | 1°21 | 5° 1 | 5°20 | 19°30 | 7°53 | W 7 |
| T 8 | 21 7 54 | 15°45'41 | 23°34 | 24°57 | 25°44 | 5°14 | 5°33 | 22°18 | 5° 0 | 26°54 | 1°22 | 4°57 | 5°17 | 19°37 | 7°50 | T 8 |
| F 9 | 21 11 50 | 16°43'17 | 8중 4 | 24°12 | 26°58 | 5°52 | 5°45 | 22°14 | 4°58 | 26°53 | 1°23 | 4°50 | 5°14 | 19°44 | 7°48 | F 9 |
| S 10 | 21 15 47 | 17°40'55 | 22°59 | 23°25 | 28°12 | 6°31 | 5°57 | 22° 9 | 4°56 | 26°51 | 1°24 | 4°41 | 5°11 | 19°51 | 7°45 | S 10 |
| S 11 | 21 19 43 | 18°38'33 | 8≈11 | 22°35 | 29°26 | 7° 9 | 6° 8 | 22° 5 | 4°53 | 26°50 | 1°25 | 4°31 | 5° 8 | 19°57 | 7°42 | S 11 |
| M12 | 21 23 40 | 19°36'13 | 23°32 | 21°44 | 0 m /40 | 7°47 | 6°20 | 22° 0 | 4°51 | 26°48 | 1°26 | 4°21 | 5° 5 | 20° 4 | 7°39 | M12 |
| T 13 | 21 27 37 | 20°33'54 | 8) (48 | 20°52 | 1°54 | 8°26 | 6°32 | 21°56 | 4°49 | 26°47 | 1°27 | 4°12 | 5° 1 | 20°11 | 7°37 | T 13 |
| W14 | 21 31 33 | 21°31'37 | 23°50 | 20° 2 | 3° 8 | 9° 4 | 6°43 | 21°51 | 4°46 | 26°46 | 1°28 | 4° 5 | 4°58 | 20°17 | 7°34 | W14 |
| T 15 | 21 35 30 | 22°29'21 | 8 Ƴ 29 | 19°13 | 4°22 | 9°42 | 6°55 | 21°47 | 4°44 | 26°44 | 1°29 | 4° 0 | 4°55 | 20°24 | 7°31 | T 15 |
| F 16 | 21 39 26 | 23°27'07 | 22°40 | 18°27 | 5°36 | 10°21 | 7° 6 | 21°42 | 4°42 | 26°43 | 1°30 | 3°58 | 4°52 | 20°31 | 7°28 | F 16 |
| S 17 | 21 43 23 | 24°24'54 | 6 8 23 | 17°44 | 6°50 | 10°59 | 7°17 | 21°38 | 4°39 | 26°41 | 1°31 | 3°D57 | 4°49 | 20°38 | 7°26 | S 17 |
| S 18 | 21 47 19 | 25°22'43 | 19°39 | 17° 6 | 8° 5 | 11°37 | 7°28 | 21°33 | 4°37 | 26°40 | 1°32 | 3°R58 | 4°45 | 20°44 | 7°23 | S 18 |
| M19 | 21 51 16 | 26°20'34 | 2 Ⅲ 32 | 16°34 | 9°19 | 12°16 | 7°40 | 21°29 | 4°35 | 26°39 | 1°33 | 3°58 | 4°42 | 20°51 | 7°20 | M19 |
| T 20 | 21 55 12 | 27°18'27 | 15° 4 | 16° 8 | 10°33 | 12°54 | 7°51 | 21°24 | 4°32 | 26°37 | 1°34 | 3°56 | 4°39 | 20°58 | 7°17 | T 20 |
| W21 | 21 59 9 | 28°16'22 | 27°22 | 15°49 | 11°47 | 13°32 | 8° 2 | 21°20 | 4°30 | 26°36 | 1°35 | 3°53 | 4°36 | 21° 4 | 7°14 | W21 |
| T 22 | 22 3 6 | 29°14'18 | 99529 | 15°37 | 13° 1 | 14°10 | 8°12 | 21°15 | 4°28 | 26°35 | 1°36 | 3°46 | 4°33 | 21°11 | 7°11 | T 22 |
| F 23 | 22 7 2 | 0 m y 12'17 | 21°28 | 15°D33 | 14°15 | 14°49 | 8°23 | 21°11 | 4°25 | 26°33 | 1°37 | 3°38 | 4°30 | 21°18 | 7° 8 | F 23 |
| S 24 | 22 10 59 | 1°10'17 | 3 Ω 22 | 15°37 | 15°29 | 15°27 | 8°34 | 21° 6 | 4°23 | 26°32 | 1°38 | 3°27 | 4°26 | 21°25 | 7° 6 | S 24 |
| S 25 | 22 14 55 | 2° 8'18 | 15°14 | 15°50 | 16°43 | 16° 5 | 8°44 | 21° 2 | 4°20 | 26°31 | 1°39 | 3°15 | 4°23 | 21°31 | 7° 3 | S 25 |
| M26 | 22 18 52 | 3° 6'21 | 27° 6 | 16°11 | 17°58 | 16°43 | 8°55 | 20°58 | 4°18 | 26°30 | 1°39 | 3° 4 | 4°20 | 21°38 | 7° 0 | M26 |
| T 27 | 22 22 48 | 4° 4'26 | 8 m 58 | 16°40 | 19°12 | 17°21 | 9° 5 | 20°53 | 4°16 | 26°28 | 1°40 | 2°53 | 4°17 | 21°45 | 6°57 | T 27 |
| W28 | 22 26 45 | 5° 2'33 | 20°54 | 17°17 | 20°26 | 17°59 | 9°16 | 20°49 | 4°13 | 26°27 | 1°41 | 2°44 | 4°14 | 21°51 | 6°54 | W28 |
| T 29 | 22 30 41 | 6° 0'41 | 2 ₾ 53 | 18° 2 | 21°40 | 18°38 | 9°26 | 20°45 | 4°11 | 26°26 | 1°42 | 2°38 | 4°10 | 21°58 | 6°51 | T 29 |
| F 30 | 22 34 38 | 6°58'51 | 14°59 | 18°55 | 22°54 | 19°16 | 9°36 | 20°40 | 4° 8 | 26°25 | 1°42 | 2°34 | 4° 7 | 22° 5 | 6°48 | F 30 |
| S 31 | 22 38 35 | 7 m 57'02 | 27 ≗ 14 | 19 Ω 55 | 24M) 8 | 19 Ω 54 | 99546 | 20≈36 | 4 光 6 | 26 පි 24 | 19543 | 2°D32 | 4 8 4 | 22 Ω 12 | 6 ∺ 45 | S 31 |

Delta T = 30.01 sec

SEPTEMBER 1669 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)Å(| ¥ | В | V | v | Ç | Q K | Day |
|------|----------|--------------------|-----------------|-----------------|---------------|----------------|--------|----------------|--------------|----------------|-------|---------------|---------------|----------------|---------------|------|
| S 1 | 22 42 31 | 8 m) 55'15 | 9 M .42 | 21 Q 3 | 25 Mp 22 | 20€32 | 9956 | 20°R32 | 4°R 4 | 26°R23 | 19544 | 2 8 32 | 4 8 1 | 22 Ω 18 | 6°R42 | S 1 |
| M 2 | 22 46 28 | 9°53'30 | 22°25 | 22°16 | 26°36 | 21°10 | 10° 5 | 20≈28 | 4) 1 | 26 궁 21 | 1°44 | 2°33 | 3°58 | 22°25 | 6 ∺ 39 | M 2 |
| T 3 | 22 50 24 | 10°51'46 | 5 ₹ 28 | 23°36 | 27°51 | 21°48 | 10°15 | 20°24 | 3°59 | 26°20 | 1°45 | 2°R34 | 3°55 | 22°32 | 6°36 | T 3 |
| W 4 | 22 54 21 | 11°50'03 | 18°53 | 25° 1 | 29° 5 | 22°26 | 10°25 | 20°20 | 3°57 | 26°19 | 1°46 | 2°34 | 3°51 | 22°38 | 6°34 | W 4 |
| T 5 | 22 58 17 | 12°48'23 | 2 る 44 | 26°30 | 0 ჲ 19 | 23° 4 | 10°34 | 20°16 | 3°54 | 26°18 | 1°46 | 2°32 | 3°48 | 22°45 | 6°31 | T 5 |
| F 6 | 23 2 14 | 13°46'43 | 17° 2 | 28° 5 | 1°33 | 23°42 | 10°44 | 20°12 | 3°52 | 26°17 | 1°47 | 2°28 | 3°45 | 22°52 | 6°28 | F 6 |
| S 7 | 23 6 10 | 14°45'06 | 1≈43 | 29°43 | 2°47 | 24°20 | 10°53 | 20° 8 | 3°49 | 26°16 | 1°48 | 2°23 | 3°42 | 22°59 | 6°25 | S 7 |
| S 8 | 23 10 7 | 15°43'30 | 16°43 | 1 m) 24 | 4° 1 | 24°58 | 11° 2 | 20° 4 | 3°47 | 26°16 | 1°48 | 2°16 | 3°39 | 23° 5 | 6°22 | S 8 |
| M 9 | 23 14 4 | 16°41'55 | 1 米 53 | 3° 8 | 5°15 | 25°36 | 11°11 | 20° 0 | 3°45 | 26°15 | 1°49 | 2° 9 | 3°36 | 23°12 | 6°19 | M 9 |
| T 10 | 23 18 0 | 17°40'22 | 17° 4 | 4°54 | 6°29 | 26°14 | 11°20 | 19°56 | 3°43 | 26°14 | 1°49 | 2° 3 | 3°32 | 23°19 | 6°16 | T 10 |
| W11 | 23 21 57 | 18°38'51 | 2 Υ 6 | 6°42 | 7°43 | 26°52 | 11°28 | 19°53 | 3°40 | 26°13 | 1°50 | 1°58 | 3°29 | 23°25 | 6°14 | W11 |
| T 12 | 23 25 53 | 19°37'23 | 16°48 | 8°31 | 8°57 | 27°30 | 11°37 | 19°49 | 3°38 | 26°12 | 1°50 | 1°55 | 3°26 | 23°32 | 6°11 | T 12 |
| F 13 | 23 29 50 | 20°35'56 | 18 7 | 10°22 | 10°11 | 28° 8 | 11°46 | 19°46 | 3°36 | 26°11 | 1°50 | 1°D54 | 3°23 | 23°39 | 6° 8 | F 13 |
| S 14 | 23 33 46 | 21°34'31 | 14°57 | 12°13 | 11°26 | 28°46 | 11°54 | 19°42 | 3°33 | 26°11 | 1°51 | 1°55 | 3°20 | 23°46 | 6° 5 | S 14 |
| S 15 | 23 37 43 | 22°33'09 | 28°20 | 14° 4 | 12°40 | 29°23 | 12° 2 | 19°39 | 3°31 | 26°10 | 1°51 | 1°56 | 3°16 | 23°52 | 6° 2 | S 15 |
| M16 | 23 41 39 | 23°31'49 | 11 II 18 | 15°56 | 13°54 | 0 m) 1 | 12°10 | 19°35 | 3°29 | 26° 9 | 1°52 | 1°58 | 3°13 | 23°59 | 6° 0 | M16 |
| T 17 | 23 45 36 | 24°30'31 | 23°54 | 17°47 | 15° 8 | 0°39 | 12°18 | 19°32 | 3°27 | 26° 8 | 1°52 | 1°R58 | 3°10 | 24° 6 | 5°57 | T 17 |
| W18 | 23 49 33 | 25°29'16 | 69512 | 19°39 | 16°22 | 1°17 | 12°26 | 19°29 | 3°25 | 26° 8 | 1°52 | 1°58 | 3° 7 | 24°12 | 5°54 | W18 |
| T 19 | 23 53 29 | 26°28'02 | 18°17 | 21°30 | 17°36 | 1°55 | 12°34 | 19°26 | 3°22 | 26° 7 | 1°53 | 1°56 | 3° 4 | 24°19 | 5°52 | T 19 |
| F 20 | 23 57 26 | 27°26'51 | 0Ω14 | 23°20 | 18°50 | 2°33 | 12°41 | 19°23 | 3°20 | 26° 7 | 1°53 | 1°52 | 3° 1 | 24°26 | 5°49 | F 20 |
| S 21 | 0 1 22 | 28°25'42 | 12° 6 | 25°10 | 20° 4 | 3°11 | 12°49 | 19°20 | 3°18 | 26° 6 | 1°53 | 1°47 | 2°57 | 24°33 | 5°46 | S 21 |
| S 22 | 0 5 19 | 29°24'36 | 23°57 | 26°59 | 21°18 | 3°48 | 12°56 | 19°17 | 3°16 | 26° 6 | 1°53 | 1°41 | 2°54 | 24°39 | 5°44 | S 22 |
| M23 | 0 9 15 | 0 ჲ 23'31 | 5 m 50 | 28°48 | 22°32 | 4°26 | 13° 3 | 19°14 | 3°14 | 26° 5 | 1°54 | 1°35 | 2°51 | 24°46 | 5°41 | M23 |
| T 24 | 0 13 12 | 1°22'29 | 17°47 | 0 ჲ 36 | 23°46 | 5° 4 | 13°10 | 19°11 | 3°12 | 26° 5 | 1°54 | 1°30 | 2°48 | 24°53 | 5°39 | T 24 |
| W25 | 0 17 8 | 2°21'28 | 29°50 | 2°23 | 25° 0 | 5°42 | 13°17 | 19° 8 | 3°10 | 26° 4 | 1°54 | 1°26 | 2°45 | 24°59 | 5°36 | W25 |
| T 26 | 0 21 5 | 3°20'30 | 12 ♀ 0 | 4° 9 | 26°14 | 6°19 | 13°24 | 19° 6 | 3° 8 | 26° 4 | 1°54 | 1°23 | 2°42 | 25° 6 | 5°34 | T 26 |
| F 27 | 0 25 1 | 4°19'34 | 24°19 | 5°54 | 27°28 | 6°57 | 13°30 | 19° 3 | 3° 6 | 26° 3 | 1°54 | 1°21 | 2°38 | 25°13 | 5°31 | F 27 |
| S 28 | 0 28 58 | 5°18'40 | 6 M .48 | 7°39 | 28°42 | 7°35 | 13°37 | 19° 1 | 3° 4 | 26° 3 | 1°54 | 1°D21 | 2°35 | 25°20 | 5°29 | S 28 |
| S 29 | 0 32 55 | 6°17'47 | 19°29 | 9°22 | 29°56 | 8°13 | 13°43 | 18°58 | 3° 2 | 26° 3 | 1°54 | 1°22 | 2°32 | 25°26 | 5°26 | S 29 |
| M30 | 0 36 51 | 7 ≏ 16'57 | 2 ₹ 24 | 11 ♀ 5 | 1 M 10 | 8 m 50 | 139549 | 18 ≈ 56 | 3 ∺ 0 | 26 궁 3 | 1954 | 1823 | 2 8 29 | 25 Ω 33 | 5 ₩ 24 | M30 |

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Greg. Calendar

OCTOBER 1669 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)Å(| ¥ | Б | U | Ω | Ç | ę, | Day |
|--------------|--------------------|----------------------|-------------------------------------|-------------------------|------------------------|------------------------|----------------|-------------------------|-----------------------|-------------------------|---------------|---------------|-----------------------|------------------------|---------------------------------------|--------------|
| T 1 | 0 40 48 | 8 ₾ 16'08 | 15 × 734 | 12 Ω 47 14°29 | 2M24 | 9 m y28 10°6 | 13955 | 18°R54 | 2°R59 | 26°R 2 | 1954 | 1825 | 2826 | 25 Ω 40 | 5°R22 | T 1 |
| W 2 T 3 | 0 44 44 0 48 41 | 9°15'22 10°14'37 | 29° 2 12 ~3 48 | 14°29 16° 9 | 3°38 4°52 | 10° 6 | 14° 1 14° 6 | 18 ≈ 52 18°50 | 2 ∺ 57 2°55 | 26 る 2 26° 2 | 1°R54 1°54 | 1°26 1°R26 | 2°22 2°19 | 25°46 25°53 | 5 光 19 5°17 | W 2 T 3 |
| F 4 | 0 52 37 | 11°13'54 | 26°54 | 17°49 | 6° 6 | 11°21 | 14°12 | 18°48 | 2°53 | 26° 2 | 1°54 | 1°26 | 2°16 | 26° 0 | 5°15 | F 4 |
| S 5 | 0 56 34 | 12°13'12 | 11≈17 | 19°27 | 7°20 | 11°59 | 14°17 | 18°46 | 2°52 | 26° 2 | 1°54 | 1°24 | 2°13 | 26° 7 | 5°13 | S 5 |
| S 6 | 1 0 30 | 13°12'32 | 25°55 | 21° 6 | 8°34 | 12°36 | 14°22 | 18°45 | 2°50 | 26° 2 | 1°54 | 1°22 | 2°10 | 26°13 | 5°11 | S 6 |
| M 7 | 1 4 27 | 14°11'54 | 10) (43 | 22°43 | 9°48 | 13°14 | 14°27 | 18°43 | 2°48 | 26° 2 | 1°54 | 1°20 | 2° 7 | 26°20 | 5° 9 | M 7 |
| T 8 | 1 8 24 | 15°11'18 | 25°33 | 24°20 | 11° 2 | 13°52 | 14°32 | 18°41 | 2°47 | 26°D 2 | 1°54 | 1°18 | 2° 3 | 26°27 | 5° 7 | T 8 |
| W 9 | 1 12 20 | 16°10'44 | 10 Υ 18 | 25°56 | 12°15 | 14°29 | 14°36 | 18°40 | 2°45 | 26° 2 | 1°54 | 1°16 | 2° 0 | 26°33 | 5° 5 | W 9 |
| T 10 F 11 | 1 16 17 1 20 13 | 17°10'12 18° 9'42 | 24°50 9 と 4 | 27°31 29° 5 | 13°29 14°43 | 15° 7 15°44 | 14°41 14°45 | 18°39 18°37 | 2°44 2°42 | 26° 2 26° 2 | 1°54 1°53 | 1°D15 1°15 | 1°57 1°54 | 26°40 26°47 | 5° 3 5° 1 | T 10 F 11 |
| S 12 | 1 20 13 | 18 942 19° 9'14 | 22°55 | 0 111. 39 | 14 43 15°57 | 16°22 | 14°49 | 18°36 | 2°41 | 26° 2 | 1°53 | 1°16 | 1°51 | 26°54 | 3 1 4°59 | S 12 |
| S 13 | 1 28 6 | 20° 8'48 | 6 Ⅱ 22 | 2°13 | 17°11 | 16°59 | 14°53 | 18°35 | 2°39 | 26° 2 | 1°53 | 1°17 | 1°47 | 27° 0 | 4°57 | S 13 |
| M14 | 1 32 3 | 21° 8'25 | 19°24 | 3°45 | 18°25 | 17°37 | 14°57 | 18°34 | 2°38 | 26° 2 | 1°53 | 1°18 | 1°44 | 27° 7 | 4°55 | M14 |
| T 15 | 1 35 59 | 22° 8'04 | 299 5 | 5°18 | 19°39 | 18°14 | 15° 0 | 18°34 | 2°37 | 26° 3 | 1°52 | 1°19 | 1°41 | 27°14 | 4°54 | T 15 |
| W16 | 1 39 56 | 23° 7'45 | 14°27 | 6°49 | 20°52 | 18°52 | 15° 4 | 18°33 | 2°36 | 26° 3 | 1°52 | 1°19 | 1°38 | 27°20 | 4°52 | W16 |
| T 17 | 1 43 53 | 24° 7'28 | 26°34 | 8°20 | 22° 6 | 19°29 | 15° 7 | 18°32 | 2°34 | 26° 3 | 1°52 | 1°R20 | 1°35 | 27°27 | 4°50 | T 17 |
| F 18 | 1 47 49 | 25° 7'14 | 8 Ω 32 | 9°50 | 23°20 | 20° 7 | 15°10 | 18°32 | 2°33 | 26° 3 | 1°51 | 1°19 | 1°32 | 27°34 | 4°49 | F 18 |
| S 19 | 1 51 46 | 26° 7'02 | 20°24 | 11°20 | 24°34 | 20°44 | 15°13 | 18°31 | 2°32 | 26° 4 | 1°51 | 1°19 | 1°28 | 27°41 | 4°47 | S 19 |
| S 20 | 1 55 42 | 27° 6'52 | 2Mp16 | 12°49 | 25°48 | 21°22 | 15°15 | 18°31 | 2°31 | 26° 4 | 1°51 | 1°18 | 1°25 | 27°47 | 4°46 | S 20 |
| M21 | 1 59 39 | 28° 6'45 | 14°10 | 14°18 | 27° 1 | 21°59 | 15°18 | 18°31 | 2°30 | 26° 5 | 1°50 | 1°18 | 1°22 | 27°54 | 4°44 | M21 |
| T 22 | 2 3 35 | 29° 6'39 | 26°12 | 15°46 | 28°15 | 22°37 | 15°20 | 18°31 | 2°29 | 26° 5 | 1°50 | 1°17 | 1°19 | 28° 1 | 4°43 | T 22 |
| W23 | 2 7 32 | 0M 6'35 | 8 ₾ 23 | 17°13 | 29°29 | 23°14 | 15°22 | 18°D31 | 2°28 | 26° 6 | 1°49 | 1°17 | 1°16 | 28° 7 | 4°42 | W23 |
| T 24 | 2 11 28 | 1° 6'34 2° 6'34 | 20°45 | 18°40 20° 6 | 0 ∡ 743 1°56 | 23°52 | 15°24 | 18°31 | 2°27 2°26 | 26° 6 26° 7 | 1°49 | 1°D17 | 1°13 1° 9 | 28°14 | 4°40 | T 24 F 25 |
| F 25 S 26 | 2 15 25 2 19 22 | 2° 6'34 3° 6'37 | 3ML20 16°10 | 20° 6 21°31 | 3°10 | 24°29 25° 6 | 15°25 15°27 | 18°31 18°31 | 2°25 | 26° 7 | 1°48 1°48 | 1°R17 1°17 | 1° 6 | 28°21 28°27 | 4°39 4°38 | S 26 |
| | | | | | | | | | | | | | | | | |
| S 27 | 2 23 18 | 4° 6'41 | 29°13 | 22°56 | 4°24 | 25°44 | 15°28 | 18°32 | 2°25 | 26° 8 | 1°47 | 1°17 | 1° 3 | 28°34 | 4°37 | S 27 |
| M28 | 2 27 15 | 5° 6'48 | 12×29 | 24°19 | 5°37 | 26°21 | 15°29 | 18°32 | 2°24 | 26° 9 | 1°47 | 1°17 | 1° 0 | 28°41 | 4°36 | M28 |
| T 29 W30 | 2 31 11 2 35 8 | 6° 6'55 7° 7'05 | 25°59 9 ⋜ 41 | 25°42 27° 4 | 6°51 8° 5 | 26°59 27°36 | 15°30 15°31 | 18°33 18°34 | 2°23 2°23 | 26° 9 26°10 | 1°46 1°45 | 1°16 1°15 | 0°57 0°53 | 28°48 28°54 | 4°35 4°34 | T 29 W30 |
| T 31 | 2 3 8 8 2 3 9 4 | 8ML 7'16 | 9 0 41 23 る 33 | 28M26 | 9 7 18 | 28 m 13 | 15931 | 18 ≈ 34 | 2+23 2 H 22 | 26·10 26 중 11 | 19645 | 1 8 15 | 0°53 0 8 50 | 28°34 29 Ω 1 | 4 1 3 4 4 1 3 3 | T 31 |
| 1 51 | 237 4 | 011 6 / 10 | 23 033 | 2011020 | J ^ 10 | 20 IV 13 | 1001 | 10~34 | 21(22 | 20011 | 1-3-73 | 1013 | 0000 | 270¢ 1 | 7/(33 | 1 21 |

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NOVEMBER 1669 GC 00:00 UT

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|-------------|--------------------|----------------------|--------------------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|----------------|-------------------------|----------------|-------------|
| F 1 | 2 43 1 | 9 M 7'29 | 7≈36 | 29 M .46 | 10 ∡ 32 | 28Mp50 | 15931 | 18 ≈ 35 | 2°R21 | 26 궁 12 | 1°R44 | 1°D15 | 0 8 47 | 29⋒8 | 4°R32 | F 1 |
| S 2 | 2 46 57 | 10° 7'43 | 21°48 | 1 √ 5 | 11°46 | 29°28 | 15°R31 | 18°36 | 2) (21 | 26°13 | 19543 | 1815 | 0°44 | 29°14 | 4) €31 | S 2 |
| S 3 | 2 50 54 | 11° 7'58 | 6 ¥ 5 | 2°22 | 12°59 | 0 ₽ 5 | 15°31 | 18°37 | 2°20 | 26°13 | 1°43 | 1°15 | 0°41 | 29°21 | 4°31 | S 3 |
| M 4 | 2 54 51 | 12° 8'15 | 20°26 | 3°39 | 14°13 | 0°42 | 15°31 | 18°39 | 2°20 | 26°14 | 1°42 | 1°16 | 0°38 | 29°28 | 4°30 | M 4 |
| T 5 | 2 58 47 | 13° 8'33 | 4 Υ 48 | 4°53 | 15°26 | 1°19 | 15°30 | 18°40 | 2°20 | 26°15 | 1°41 | 1°17 | 0°34 | 29°35 | 4°29 | T 5 |
| W 6 | 3 2 44 | 14° 8'53 | 19° 5 | 6° 6 | 16°40 | 1°57 | 15°30 | 18°41 | 2°20 | 26°16 | 1°41 | 1°18 | 0°31 | 29°41 | 4°29 | W 6 |
| T 7 | 3 6 40 | 15° 9'15 | 3 8 13 | 7°17 | 17°53 | 2°34 | 15°29 | 18°43 | 2°19 | 26°17 | 1°40 | 1°R18 | 0°28 | 29°48 | 4°28 | T 7 |
| F 8 S 9 | 3 10 37 | 16° 9'38 17°10'03 | 17°9 0 ∏ 49 | 8°26 9°32 | 19° 7 20°20 | 3°11 3°48 | 15°28 15°26 | 18°45 18°46 | 2°19 2°19 | 26°18 26°19 | 1°39 1°38 | 1°18 1°16 | 0°25 0°22 | 29°55 0 m) 1 | 4°28 4°28 | F 8 S 9 |
| | 3 14 33 | | | | | | | | | | | _ | - | ٦. | | |
| S 10 | 3 18 30 | 18°10'29 | 14°10 | 10°36 | 21°33 | 4°25 | 15°25 | 18°48 | 2°19 | 26°20 | 1°37 | 1°14 | 0°19 | 0° 8 | 4°27 | S 10 |
| M11 | 3 22 26 | 19°10'58 | 27°11 | 11°36 | 22°47 | 5° 3 | 15°23 | 18°50 | 2°D19 | 26°21 | 1°37 | 1°12 | 0°15 | 0°15 | 4°27 | M11 |
| T 12 | 3 26 23 | 20°11'28 | 9953 | 12°33 | 24° 0 | 5°40 | 15°21 | 18°52 | 2°19 | 26°23 | 1°36 | 1° 9 | 0°12 | 0°21 | 4°27 | T 12 |
| W13 T 14 | 3 30 20 3 34 16 | 21°12'00 22°12'33 | 22°17 4 Ω 27 | 13°26 14°14 | 25°14 26°27 | 6°17 6°54 | 15°19 15°17 | 18°54 18°57 | 2°19 2°19 | 26°24 26°25 | 1°35 1°34 | 1° 6 1° 4 | 0° 9 0° 6 | 0°28 0°35 | 4°27 4°D27 | W13 T 14 |
| F 15 | 3 34 10 | 22 12 33 23°13'09 | 16°26 | 14 14 14°57 | 20°27 27°40 | 7°31 | 15°14 | 18°59 | 2°19 | 26°26 | 1°33 | 1° 3 | 0° 3 | 0°42 | 4 D27 4°27 | F 15 |
| S 16 | 3 42 9 | 24°13'46 | 28°18 | 15°35 | 28°53 | 8° 8 | 15°11 | 19° 1 | 2°19 | 26°27 | 1°32 | 1°D 3 | 29Υ59 | 0°48 | 4°27 | S 16 |
| S 17 | | 25°14'24 | | 16° 6 | 0중 7 | 8°45 | 15° 9 | 19° 4 | 2°20 | 26°29 | 1°31 | 1° 4 | 29°56 | 0°55 | 4°27 | S 17 |
| M18 | 3 46 6 3 50 2 | 26°15'05 | 10 m)10 22° 5 | 16° 6 | 1°20 | 9°22 | 15° 5 | 19° 4 | 2°20 | 26°29 26°30 | 1°30 | 1° 4 | 29°53 | 1° 2 | 4°27 | M18 |
| T 19 | 3 53 59 | 20 15 05 27°15'47 | 4 <u>₽</u> 8 | 16°45 | 2°33 | 9°59 | 15° 2 | 19° 9 | 2°20 | 26°31 | 1°29 | 1° 7 | 29°50 | 1° 8 | 4°28 | T 19 |
| W20 | 3 57 55 | 28°16'30 | 16°23 | 16°R52 | 3°46 | 10°36 | 14°59 | 19°12 | 2°21 | 26°33 | 1°28 | 1° 9 | 29°47 | 1°15 | 4°28 | W20 |
| T 21 | 4 1 52 | 29°17'16 | 28°55 | 16°50 | 4°59 | 11°13 | 14°55 | 19°15 | 2°21 | 26°34 | 1°27 | 1°R 9 | 29°44 | 1°22 | 4°28 | T 21 |
| F 22 | 4 5 49 | 0 ₮ 18'02 | 11 M .45 | 16°37 | 6°12 | 11°50 | 14°51 | 19°18 | 2°22 | 26°36 | 1°26 | 1° 9 | 29°40 | 1°29 | 4°29 | F 22 |
| S 23 | 4 9 45 | 1°18'51 | 24°54 | 16°13 | 7°26 | 12°27 | 14°47 | 19°21 | 2°23 | 26°37 | 1°25 | 1° 7 | 29°37 | 1°35 | 4°29 | S 23 |
| S 24 | 4 13 42 | 2°19'40 | 8 ₹ 22 | 15°39 | 8°39 | 13° 4 | 14°43 | 19°24 | 2°23 | 26°39 | 1°24 | 1° 3 | 29°34 | 1°42 | 4°30 | S 24 |
| M25 | 4 17 38 | 3°20'31 | 22° 6 | 14°53 | 9°52 | 13°41 | 14°38 | 19°28 | 2°24 | 26°40 | 1°23 | 0°59 | 29°31 | 1°49 | 4°30 | M25 |
| T 26 | 4 21 35 | 4°21'23 | 6 ප 4 | 13°58 | 11° 5 | 14°18 | 14°34 | 19°31 | 2°25 | 26°42 | 1°22 | 0°53 | 29°28 | 1°55 | 4°31 | T 26 |
| W27 | 4 25 31 | 5°22'16 | 20°11 | 12°52 | 12°17 | 14°55 | 14°29 | 19°34 | 2°25 | 26°43 | 1°21 | 0°48 | 29°25 | 2° 2 | 4°32 | W27 |
| T 28 | 4 29 28 | 6°23'09 | 4≈24 | 11°39 | 13°30 | 15°31 | 14°24 | 19°38 | 2°26 | 26°45 | 1°20 | 0°43 | 29°21 | 2° 9 | 4°32 | T 28 |
| F 29 | 4 33 25 | 7°24'04 | 18°37 | 10°20 | 14°43 | 16° 8 | 14°19 | 19°42 | 2°27 | 26°46 | 1°19 | 0°40 | 29°18 | 2°15 | 4°33 | F 29 |
| S 30 | 4 37 21 | 8 .7 24'59 | 2 ∺ 50 | 8 ₹ 58 | 15 る 56 | 16 ≏ 45 | 149514 | 19 ≈ 45 | 2 ∺ 28 | 26 중 48 | 19518 | 0°D39 | 29 Y 15 | 2 m 22 | 4) (34 | S 30 |

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Greg. Calendar

| DECEMBER 1669 GC | 00:00 UT |
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| DECEMBER 1009 OC | 00:00 UI |

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)Å(| ¥ | Р | ₽. | ಬ | Ç | ę, | Day |
|------|---------|------------------|----------------|----------------|---------------|----------------|--------|----------------|---------------|----------------|-------|----------------|----------------|---------------|----------------|------|
| S 1 | 4 41 18 | 9 ₹ 25'55 | 16 米 58 | 7°R35 | 17 る 9 | 17 ≏ 22 | 14°R 8 | 19 ≈ 49 | 2) 29 | 26 궁 50 | 1°R17 | 0 8 39 | 29 Υ 12 | 2 Mp 29 | 4) €35 | S 1 |
| M 2 | 4 45 14 | 10°26'52 | 1 ℃ 0 | 6 ₹ 15 | 18°21 | 17°59 | 1499 3 | 19°53 | 2°30 | 26°51 | 19916 | 0°40 | 29° 9 | 2°36 | 4°36 | M 2 |
| T 3 | 4 49 11 | 11°27'49 | 14°57 | 4°59 | 19°34 | 18°35 | 13°57 | 19°57 | 2°31 | 26°53 | 1°14 | 0°41 | 29° 5 | 2°42 | 4°37 | T 3 |
| W 4 | 4 53 7 | 12°28'47 | 28°45 | 3°51 | 20°47 | 19°12 | 13°51 | 20° 1 | 2°32 | 26°55 | 1°13 | 0°R42 | 29° 2 | 2°49 | 4°38 | W 4 |
| T 5 | 4 57 4 | 13°29'46 | 12826 | 2°51 | 21°59 | 19°49 | 13°45 | 20° 5 | 2°34 | 26°57 | 1°12 | 0°41 | 28°59 | 2°56 | 4°40 | T 5 |
| F 6 | 5 1 0 | 14°30'45 | 25°56 | 2° 2 | 23°12 | 20°25 | 13°39 | 20° 9 | 2°35 | 26°58 | 1°11 | 0°39 | 28°56 | 3° 2 | 4°41 | F 6 |
| S 7 | 5 4 57 | 15°31'46 | 9 Ⅱ 14 | 1°24 | 24°24 | 21° 2 | 13°33 | 20°14 | 2°36 | 27° 0 | 1°10 | 0°34 | 28°53 | 3° 9 | 4°42 | S 7 |
| S 8 | 5 8 54 | 16°32'47 | 22°20 | 0°57 | 25°37 | 21°38 | 13°26 | 20°18 | 2°37 | 27° 2 | 1° 9 | 0°27 | 28°50 | 3°16 | 4°44 | S 8 |
| M 9 | 5 12 50 | 17°33'49 | 5 9 311 | 0°41 | 26°49 | 22°15 | 13°20 | 20°23 | 2°39 | 27° 4 | 1° 8 | 0°18 | 28°46 | 3°22 | 4°45 | M 9 |
| T 10 | 5 16 47 | 18°34'51 | 17°46 | 0°D36 | 28° 1 | 22°52 | 13°13 | 20°27 | 2°40 | 27° 6 | 1° 6 | 0° 9 | 28°43 | 3°29 | 4°46 | T 10 |
| W11 | 5 20 43 | 19°35'55 | 0Ω 8 | 0°41 | 29°13 | 23°28 | 13° 6 | 20°32 | 2°42 | 27° 8 | 1° 5 | 29 Y 59 | 28°40 | 3°36 | 4°48 | W11 |
| T 12 | 5 24 40 | 20°36'59 | 12°16 | 0°55 | 0≈25 | 24° 5 | 12°59 | 20°37 | 2°43 | 27°10 | 1° 4 | 29°52 | 28°37 | 3°43 | 4°50 | T 12 |
| F 13 | 5 28 36 | 21°38'04 | 24°14 | 1°18 | 1°37 | 24°41 | 12°52 | 20°41 | 2°45 | 27°12 | 1° 3 | 29°46 | 28°34 | 3°49 | 4°51 | F 13 |
| S 14 | 5 32 33 | 22°39'10 | 6MD 6 | 1°48 | 2°49 | 25°17 | 12°45 | 20°46 | 2°46 | 27°13 | 1° 2 | 29°42 | 28°31 | 3°56 | 4°53 | S 14 |
| S 15 | 5 36 29 | 23°40'17 | 17°56 | 2°26 | 4° 1 | 25°54 | 12°38 | 20°51 | 2°48 | 27°15 | 1° 0 | 29°40 | 28°27 | 4° 3 | 4°55 | S 15 |
| M16 | 5 40 26 | 24°41'24 | 29°49 | 3° 9 | 5°13 | 26°30 | 12°30 | 20°56 | 2°50 | 27°17 | 0°59 | 29°D40 | 28°24 | 4° 9 | 4°56 | M16 |
| T 17 | 5 44 23 | 25°42'32 | 11 ≏ 51 | 3°58 | 6°25 | 27° 7 | 12°23 | 21° 1 | 2°52 | 27°19 | 0°58 | 29°41 | 28°21 | 4°16 | 4°58 | T 17 |
| W18 | 5 48 19 | 26°43'41 | 24° 6 | 4°51 | 7°37 | 27°43 | 12°15 | 21° 6 | 2°53 | 27°21 | 0°57 | 29°R42 | 28°18 | 4°23 | 5° 0 | W18 |
| T 19 | 5 52 16 | 27°44'51 | 6 M .39 | 5°49 | 8°48 | 28°19 | 12° 8 | 21°12 | 2°55 | 27°23 | 0°56 | 29°41 | 28°15 | 4°29 | 5° 2 | T 19 |
| F 20 | 5 56 12 | 28°46'01 | 19°36 | 6°50 | 10° 0 | 28°56 | 12° 0 | 21°17 | 2°57 | 27°25 | 0°54 | 29°39 | 28°11 | 4°36 | 5° 4 | F 20 |
| S 21 | 6 0 9 | 29°47'11 | 2 , ₹56 | 7°55 | 11°11 | 29°32 | 11°52 | 21°22 | 2°59 | 27°28 | 0°53 | 29°35 | 28° 8 | 4°43 | 5° 6 | S 21 |
| S 22 | 6 4 5 | 0 궁 48'23 | 16°42 | 9° 3 | 12°22 | 0 M 8 | 11°45 | 21°28 | 3° 1 | 27°30 | 0°52 | 29°28 | 28° 5 | 4°50 | 5° 8 | S 22 |
| M23 | 6 8 2 | 1°49'34 | 0 궁 51 | 10°13 | 13°34 | 0°44 | 11°37 | 21°33 | 3° 3 | 27°32 | 0°51 | 29°19 | 28° 2 | 4°56 | 5°11 | M23 |
| T 24 | 6 11 58 | 2°50'46 | 15°17 | 11°26 | 14°45 | 1°20 | 11°29 | 21°39 | 3° 5 | 27°34 | 0°49 | 29° 8 | 27°59 | 5° 3 | 5°13 | T 24 |
| W25 | 6 15 55 | 3°51'58 | 29°54 | 12°40 | 15°56 | 1°56 | 11°21 | 21°44 | 3° 7 | 27°36 | 0°48 | 28°58 | 27°56 | 5°10 | 5°15 | W25 |
| T 26 | 6 19 52 | 4°53'10 | 14≈35 | 13°56 | 17° 7 | 2°32 | 11°13 | 21°50 | 3° 9 | 27°38 | 0°47 | 28°48 | 27°52 | 5°16 | 5°17 | T 26 |
| F 27 | 6 23 48 | 5°54'21 | 29°11 | 15°14 | 18°18 | 3° 8 | 11° 5 | 21°56 | 3°12 | 27°40 | 0°46 | 28°41 | 27°49 | 5°23 | 5°20 | F 27 |
| S 28 | 6 27 45 | 6°55'33 | 13) 38 | 16°33 | 19°29 | 3°44 | 10°57 | 22° 2 | 3°14 | 27°42 | 0°45 | 28°36 | 27°46 | 5°30 | 5°22 | S 28 |
| S 29 | 6 31 41 | 7°56'44 | 27°52 | 17°54 | 20°39 | 4°20 | 10°49 | 22° 7 | 3°16 | 27°45 | 0°43 | 28°34 | 27°43 | 5°36 | 5°25 | S 29 |
| M30 | 6 35 38 | 8°57'54 | 11 Y 50 | 19°16 | 21°50 | 4°56 | 10°40 | 22°13 | 3°18 | 27°47 | 0°42 | 28°D34 | 27°40 | 5°43 | 5°27 | M30 |
| T 31 | 6 39 34 | 9 ප 59'05 | 25 Y 34 | 20 ₮ 38 | 23≈ 0 | 5 M 32 | 10532 | 22 ≈ 19 | 3 ∺ 21 | 27 る 49 | 09341 | 28°R34 | 27 Y 37 | 5 m 50 | 5 ₩ 30 | T 31 |

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JANUARY 1670 GC 00:00 UT

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|------|---------|----------|----------------|---------------|----------------|----------------|--------|-------|-----------------|----------------|-------|----------------|----------------|---------------|----------------|------|
| W 1 | 6 43 31 | 11궁 0'14 | 9 8 5 | 22 × 2 | 24≈10 | 6 M 8 | 10°R24 | 22≈25 | 3 ∺ 23 | 27 ට 51 | 0°R40 | 28°R34 | 27 Y 33 | 5 m 56 | 5) €32 | W 1 |
| T 2 | 6 47 27 | 12° 1'24 | 22°22 | 23°26 | 25°21 | 6°44 | 109516 | 22°31 | 3°25 | 27°53 | 0ഇ39 | 28 Y 31 | 27°30 | 6° 3 | 5°35 | T 2 |
| F 3 | 6 51 24 | 13° 2'33 | 5 Ⅱ 28 | 24°52 | 26°31 | 7°19 | 10° 8 | 22°37 | 3°28 | 27°55 | 0°37 | 28°26 | 27°27 | 6°10 | 5°38 | F 3 |
| S 4 | 6 55 21 | 14° 3'42 | 18°24 | 26°18 | 27°40 | 7°55 | 10° 0 | 22°44 | 3°30 | 27°58 | 0°36 | 28°18 | 27°24 | 6°17 | 5°40 | S 4 |
| S 5 | 6 59 17 | 15° 4'51 | 195 9 | 27°44 | 28°50 | 8°31 | 9°52 | 22°50 | 3°33 | 28° 0 | 0°35 | 28° 7 | 27°21 | 6°23 | 5°43 | S 5 |
| M 6 | 7 3 14 | 16° 5'59 | 13°43 | 29°12 | 29°59 | 9° 6 | 9°44 | 22°56 | 3°36 | 28° 2 | 0°34 | 27°54 | 27°17 | 6°30 | 5°46 | M 6 |
| T 7 | 7 7 10 | 17° 7'06 | 26° 7 | 0540 | 1) 9 | 9°42 | 9°36 | 23° 2 | 3°38 | 28° 4 | 0°33 | 27°40 | 27°14 | 6°37 | 5°49 | T 7 |
| W 8 | 7 11 7 | 18° 8'14 | $8\Omega 20$ | 2° 9 | 2°18 | 10°17 | 9°28 | 23° 9 | 3°41 | 28° 7 | 0°32 | 27°26 | 27°11 | 6°43 | 5°52 | W 8 |
| T 9 | 7 15 3 | 19° 9'21 | 20°24 | 3°38 | 3°28 | 10°53 | 9°20 | 23°15 | 3°43 | 28° 9 | 0°30 | 27°13 | 27° 8 | 6°50 | 5°54 | T 9 |
| F 10 | 7 19 0 | 20°10'28 | 2 Mp 19 | 5° 8 | 4°37 | 11°28 | 9°12 | 23°22 | 3°46 | 28°11 | 0°29 | 27° 2 | 27° 5 | 6°57 | 5°57 | F 10 |
| S 11 | 7 22 57 | 21°11'34 | 14° 9 | 6°38 | 5°45 | 12° 4 | 9° 4 | 23°28 | 3°49 | 28°13 | 0°28 | 26°54 | 27° 2 | 7° 3 | 6° 0 | S 11 |
| S 12 | 7 26 53 | 22°12'40 | 25°57 | 8° 9 | 6°54 | 12°39 | 8°57 | 23°35 | 3°52 | 28°16 | 0°27 | 26°50 | 26°58 | 7°10 | 6° 3 | S 12 |
| M13 | 7 30 50 | 23°13'45 | 7 ≏ 48 | 9°41 | 8° 2 | 13°14 | 8°49 | 23°41 | 3°54 | 28°18 | 0°26 | 26°47 | 26°55 | 7°17 | 6° 7 | M13 |
| T 14 | 7 34 46 | 24°14'51 | 19°47 | 11°13 | 9°11 | 13°49 | 8°41 | 23°48 | 3°57 | 28°20 | 0°25 | 26°47 | 26°52 | 7°23 | 6°10 | T 14 |
| W15 | 7 38 43 | 25°15'56 | 1 M 58 | 12°45 | 10°19 | 14°25 | 8°34 | 23°55 | 4° 0 | 28°23 | 0°24 | 26°47 | 26°49 | 7°30 | 6°13 | W15 |
| T 16 | 7 42 39 | 26°17'00 | 14°28 | 14°19 | 11°27 | 15° 0 | 8°27 | 24° 1 | 4° 3 | 28°25 | 0°23 | 26°46 | 26°46 | 7°37 | 6°16 | T 16 |
| F 17 | 7 46 36 | 27°18'05 | 27°22 | 15°53 | 12°34 | 15°35 | 8°19 | 24° 8 | 4° 6 | 28°27 | 0°22 | 26°43 | 26°43 | 7°44 | 6°19 | F 17 |
| S 18 | 7 50 32 | 28°19'09 | 10 ∡ 43 | 17°27 | 13°42 | 16°10 | 8°12 | 24°15 | 4° 9 | 28°29 | 0°20 | 26°39 | 26°39 | 7°50 | 6°22 | S 18 |
| S 19 | 7 54 29 | 29°20'12 | 24°33 | 19° 2 | 14°49 | 16°45 | 8° 5 | 24°22 | 4°12 | 28°32 | 0°19 | 26°31 | 26°36 | 7°57 | 6°26 | S 19 |
| M20 | 7 58 26 | 0≈21'15 | 8 云 52 | 20°38 | 15°56 | 17°20 | 7°58 | 24°28 | 4°15 | 28°34 | 0°18 | 26°21 | 26°33 | 8° 4 | 6°29 | M20 |
| T 21 | 8 2 22 | 1°22'17 | 23°35 | 22°14 | 17° 3 | 17°55 | 7°51 | 24°35 | 4°18 | 28°36 | 0°17 | 26° 9 | 26°30 | 8°10 | 6°32 | T 21 |
| W22 | 8 6 19 | 2°23'18 | 8≈34 | 23°51 | 18° 9 | 18°29 | 7°44 | 24°42 | 4°21 | 28°38 | 0°16 | 25°57 | 26°27 | 8°17 | 6°36 | W22 |
| T 23 | 8 10 15 | 3°24'18 | 23°39 | 25°28 | 19°16 | 19° 4 | 7°38 | 24°49 | 4°24 | 28°41 | 0°15 | 25°46 | 26°23 | 8°24 | 6°39 | T 23 |
| F 24 | 8 14 12 | 4°25'17 | 8) (41 | 27° 6 | 20°22 | 19°39 | 7°31 | 24°56 | 4°27 | 28°43 | 0°14 | 25°37 | 26°20 | 8°30 | 6°42 | F 24 |
| S 25 | 8 18 8 | 5°26'14 | 23°31 | 28°45 | 21°28 | 20°13 | 7°25 | 25° 3 | 4°30 | 28°45 | 0°13 | 25°31 | 26°17 | 8°37 | 6°46 | S 25 |
| S 26 | 8 22 5 | 6°27'11 | 8 Υ 2 | 0≈25 | 22°33 | 20°48 | 7°18 | 25°10 | 4°33 | 28°48 | 0°12 | 25°28 | 26°14 | 8°44 | 6°49 | S 26 |
| M27 | 8 26 1 | 7°28'06 | 22°11 | 2° 5 | 23°39 | 21°22 | 7°12 | 25°17 | 4°36 | 28°50 | 0°11 | 25°D27 | 26°11 | 8°50 | 6°53 | M27 |
| T 28 | 8 29 58 | 8°29'00 | 5 8 57 | 3°46 | 24°44 | 21°57 | 7° 6 | 25°24 | 4°39 | 28°52 | 0°11 | 25°R27 | 26° 8 | 8°57 | 6°56 | T 28 |
| W29 | 8 33 55 | 9°29'52 | 19°23 | 5°27 | 25°49 | 22°31 | 7° 0 | 25°31 | 4°43 | 28°54 | 0°10 | 25°27 | 26° 4 | 9° 4 | 7° 0 | W29 |
| T 30 | 8 37 51 | 10°30'43 | 2 Ⅲ 31 | 7°10 | 26°53 | 23° 5 | 6°55 | 25°38 | 4°46 | 28°57 | 0° 9 | 25°25 | 26° 1 | 9°11 | 7° 4 | T 30 |
| F 31 | 8 41 48 | 11≈31'33 | 15 Ⅱ 22 | 8≈53 | 27) 57 | 23 M 39 | 69549 | 25≈45 | 4) (49 | 28 궁 59 | 09 8 | 25 Y 21 | 25 Y 58 | 9 m 17 | 7 ∺ 7 | F 31 |

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Greg. Calendar

FEBRUARY 1670 GC 00:00 UT

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|------|----------|--------------------|-----------------|----------------|----------------|---------------|--------------|-------|----------------|----------------|-----------------|---------------|----------------|-----------------|---------------|------|
| S 1 | 8 45 44 | 12≈32'21 | 28耳 1 | 10≈37 | 29 ∺ 1 | 24M14 | 6°R44 | 25≈53 | 4) €52 | 29ට 1 | 0°R 7 | 25°R13 | 25 Y 55 | 9 m /24 | 7 ∺ 11 | S 1 |
| S 2 | 8 49 41 | 13°33'07 | 109529 | 12°21 | 0 Υ 5 | 24°48 | 6939 | 26° 0 | 4°55 | 29° 3 | 0ණ 6 | 25 Y 3 | 25°52 | 9°31 | 7°14 | S 2 |
| M 3 | 8 53 37 | 14°33'53 | 22°47 | 14° 7 | 1° 8 | 25°21 | 6°34 | 26° 7 | 4°59 | 29° 5 | 0° 5 | 24°51 | 25°49 | 9°37 | 7°18 | M 3 |
| T 4 | 8 57 34 | 15°34'36 | 4Ω57 | 15°53 | 2°10 | 25°55 | 6°29 | 26°14 | 5° 2 | 29° 8 | 0° 5 | 24°38 | 25°45 | 9°44 | 7°22 | T 4 |
| W 5 | 9 1 30 | 16°35'19 | 17° 0 | 17°40 | 3°13 | 26°29 | 6°24 | 26°21 | 5° 5 | 29°10 | 0° 4 | 24°24 | 25°42 | 9°51 | 7°25 | W 5 |
| T 6 | 9 5 27 | 17°36'00 | 28°57 | 19°27 | 4°15 | 27° 3 | 6°20 | 26°29 | 5° 9 | 29°12 | 0° 3 | 24°12 | 25°39 | 9°57 | 7°29 | T 6 |
| F 7 | 9 9 24 | 18°36'39 | 10 m /49 | 21°16 | 5°17 | 27°36 | 6°15 | 26°36 | 5°12 | 29°14 | 0° 2 | 24° 2 | 25°36 | 10° 4 | 7°33 | F 7 |
| S 8 | 9 13 20 | 19°37'18 | 22°38 | 23° 5 | 6°18 | 28°10 | 6°11 | 26°43 | 5°15 | 29°16 | 0° 1 | 23°55 | 25°33 | 10°11 | 7°37 | S 8 |
| S 9 | 9 17 17 | 20°37'55 | 4 º 26 | 24°54 | 7°19 | 28°43 | 6° 7 | 26°50 | 5°19 | 29°19 | 0° 1 | 23°50 | 25°29 | 10°17 | 7°40 | S 9 |
| M10 | 9 21 13 | 21°38'30 | 16°17 | 26°44 | 8°19 | 29°17 | 6° 3 | 26°57 | 5°22 | 29°21 | 0° 0 | 23°48 | 25°26 | 10°24 | 7°44 | M10 |
| T 11 | 9 25 10 | 22°39'05 | 28°16 | 28°35 | 9°19 | 29°50 | 6° 0 | 27° 5 | 5°25 | 29°23 | 29 II 59 | 23°D48 | 25°23 | 10°31 | 7°48 | T 11 |
| W12 | 9 29 6 | 23°39'38 | 10M26 | 0 ∺ 26 | 10°19 | 0 ∡ 23 | 5°56 | 27°12 | 5°29 | 29°25 | 29°59 | 23°49 | 25°20 | 10°37 | 7°52 | W12 |
| T 13 | 9 33 3 | 24°40'10 | 22°52 | 2°18 | 11°18 | 0°56 | 5°53 | 27°19 | 5°32 | 29°27 | 29°58 | 23°R49 | 25°17 | 10°44 | 7°56 | T 13 |
| F 14 | 9 36 59 | 25°40'40 | 5 √ 41 | 4° 9 | 12°16 | 1°30 | 5°50 | 27°27 | 5°36 | 29°29 | 29°57 | 23°49 | 25°14 | 10°51 | 7°59 | F 14 |
| S 15 | 9 40 56 | 26°41'10 | 18°55 | 6° 0 | 13°14 | 2° 2 | 5°47 | 27°34 | 5°39 | 29°31 | 29°57 | 23°46 | 25°10 | 10°57 | 8° 3 | S 15 |
| S 16 | 9 44 53 | 27°41'38 | 2 云 39 | 7°52 | 14°12 | 2°35 | 5°44 | 27°41 | 5°42 | 29°33 | 29°56 | 23°42 | 25° 7 | 11° 4 | 8° 7 | S 16 |
| M17 | 9 48 49 | 28°42'05 | 16°52 | 9°42 | 15° 9 | 3° 8 | 5°42 | 27°48 | 5°46 | 29°35 | 29°56 | 23°35 | 25° 4 | 11°11 | 8°11 | M17 |
| T 18 | 9 52 46 | 29°42'30 | 1≈34 | 11°32 | 16° 6 | 3°41 | 5°40 | 27°56 | 5°49 | 29°37 | 29°55 | 23°27 | 25° 1 | 11°18 | 8°15 | T 18 |
| W19 | 9 56 42 | 0) (42′54 | 16°36 | 13°21 | 17° 2 | 4°13 | 5°37 | 28° 3 | 5°53 | 29°40 | 29°55 | 23°18 | 24°58 | 11°24 | 8°19 | W19 |
| T 20 | 10 0 39 | 1°43'16 | 1) 51 | 15° 9 | 17°57 | 4°45 | 5°36 | 28°10 | 5°56 | 29°42 | 29°54 | 23°10 | 24°55 | 11°31 | 8°22 | T 20 |
| F 21 | 10 4 35 | 2°43'36 | 17° 8 | 16°54 | 18°52 | 5°18 | 5°34 | 28°17 | 6° 0 | 29°44 | 29°54 | 23° 4 | 24°51 | 11°38 | 8°26 | F 21 |
| S 22 | 10 8 32 | 3°43'54 | 2 Υ 15 | 18°37 | 19°46 | 5°50 | 5°32 | 28°25 | 6° 3 | 29°45 | 29°53 | 23° 0 | 24°48 | 11°44 | 8°30 | S 22 |
| S 23 | 10 12 28 | 4°44'11 | 17° 4 | 20°18 | 20°39 | 6°22 | 5°31 | 28°32 | 6° 7 | 29°47 | 29°53 | 22°D58 | 24°45 | 11°51 | 8°34 | S 23 |
| M24 | 10 16 25 | 5°44'25 | 1830 | 21°55 | 21°32 | 6°54 | 5°30 | 28°39 | 6°10 | 29°49 | 29°52 | 22°58 | 24°42 | 11°58 | 8°38 | M24 |
| T 25 | 10 20 22 | 6°44'37 | 15°29 | 23°28 | 22°24 | 7°26 | 5°29 | 28°46 | 6°13 | 29°51 | 29°52 | 22°59 | 24°39 | 12° 4 | 8°42 | T 25 |
| W26 | 10 24 18 | 7°44'48 | 29° 3 | 24°56 | 23°15 | 7°57 | 5°28 | 28°54 | 6°17 | 29°53 | 29°52 | 23° 1 | 24°35 | 12°11 | 8°46 | W26 |
| T 27 | 10 28 15 | 8°44'56 | 12 I I13 | 26°20 | 24° 6 | 8°29 | 5°28 | 29° 1 | 6°20 | 2 <u>9</u> °55 | 29°51 | 23°R 1 | 24°32 | 12°18 | 8°50 | T 27 |
| F 28 | 10 32 11 | 9 米 45'02 | 25 I 1 | 27 米 38 | 24 Y 56 | 9 才 0 | 59 28 | 29≈ 8 | 6 ∺ 24 | 29 궁 57 | 29 Ⅱ 51 | 23 Y 0 | 24 Y 29 | 12 M p24 | 8 ∺ 54 | F 28 |

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| S 1 | 10 36 8 | 10 ¥ 45′06 | 7933 | 28) 49 | 25 Ƴ 45 | 9 % 31 | 5°D27 | 29≈15 | 6 ∺ 27 | 29 궁 59 | 29°R51 | 22°R56 | 24 Y 26 | 12 m 31 | 8 ∺ 57 | S 1 |
| S 2 | 10 40 4 | 11°45'08 | 19°51 | 29°54 | 26°33 | 10° 3 | 5928 | 29°23 | 6°31 | 0≈ 1 | 29∏50 | 22 Y 51 | 24°23 | 12°38 | 9° 1 | S 2 |
| M 3 | 10 44 1 | 12°45'08 | 1 Ω 59 | 0 Υ 52 | 27°20 | 10°34 | 5°28 | 29°30 | 6°34 | 0° 2 | 29°50 | 22°45 | 24°20 | 12°44 | 9° 5 | M 3 |
| T 4 | 10 47 57 | 13°45'05 | 13°59 | 1°42 | 28° 6 | 11° 5 | 5°28 | 29°37 | 6°37 | 0° 4 | 29°50 | 22°37 | 24°16 | 12°51 | 9° 9 | T 4 |
| W 5 | 10 51 54 | 14°45'00 | 25°54 | 2°24 | 28°51 | 11°35 | 5°29 | 29°44 | 6°41 | 0° 6 | 29°50 | 22°30 | 24°13 | 12°58 | 9°13 | W 5 |
| T 6 | 10 55 51 | 15°44'54 | 7 m) 45 | 2°58 | 29°35 | 12° 6 | 5°30 | 29°51 | 6°44 | 0° 8 | 29°49 | 22°23 | 24°10 | 13° 4 | 9°17 | T 6 |
| F 7 | 10 59 47 | 16°44'45 | 19°35 | 3°23 | 0819 | 12°36 | 5°31 | 29°58 | 6°48 | 0° 9 | 29°49 | 22°18 | 24° 7 | 13°11 | 9°21 | F 7 |
| S 8 | 11 3 44 | 17°44'35 | 1 ≏ 25 | 3°39 | 1° 1 | 13° 7 | 5°32 | 0 米 5 | 6°51 | 0°11 | 29°49 | 22°14 | 24° 4 | 13°18 | 9°25 | S 8 |
| S 9 | 11 7 40 | 18°44'22 | 13°17 | 3°R47 | 1°42 | 13°37 | 5°34 | 0°12 | 6°55 | 0°13 | 29°49 | 22°12 | 24° 0 | 13°24 | 9°28 | S 9 |
| M10 | 11 11 37 | 19°44'08 | 25°14 | 3°46 | 2°21 | 14° 7 | 5°35 | 0°19 | 6°58 | 0°14 | 29°49 | 22°D11 | 23°57 | 13°31 | 9°32 | M10 |
| T 11 | 11 15 33 | 20°43'51 | 7 M J18 | 3°37 | 3° 0 | 14°36 | 5°37 | 0°26 | 7° 1 | 0°16 | 29°49 | 22°12 | 23°54 | 13°38 | 9°36 | T 11 |
| W12 | 11 19 30 | 21°43'33 | 19°33 | 3°20 | 3°37 | 15° 6 | 5°39 | 0°33 | 7° 5 | 0°18 | 29°49 | 22°14 | 23°51 | 13°44 | 9°40 | W12 |
| T 13 | 11 23 26 | 22°43'14 | 2 √ 2 | 2°55 | 4°13 | 15°36 | 5°41 | 0°40 | 7° 8 | 0°19 | 29°49 | 22°16 | 23°48 | 13°51 | 9°44 | T 13 |
| F 14 | 11 27 23 | 23°42'52 | 14°50 | 2°23 | 4°48 | 16° 5 | 5°44 | 0°47 | 7°11 | 0°21 | 29°D49 | 22°17 | 23°45 | 13°58 | 9°48 | F 14 |
| S 15 | 11 31 20 | 24°42'29 | 28° 0 | 1°46 | 5°22 | 16°34 | 5°46 | 0°54 | 7°15 | 0°22 | 29°49 | 22°R17 | 23°41 | 14° 5 | 9°51 | S 15 |
| S 16 | 11 35 16 | 25°42'04 | 11 る 35 | 1° 3 | 5°53 | 17° 3 | 5°49 | 1° 1 | 7°18 | 0°24 | 29°49 | 22°16 | 23°38 | 14°11 | 9°55 | S 16 |
| M17 | 11 39 13 | 26°41'38 | 25°36 | 0°16 | 6°24 | 17°32 | 5°52 | 1° 8 | 7°21 | 0°25 | 29°49 | 22°14 | 23°35 | 14°18 | 9°59 | M17 |
| T 18 | 11 43 9 | 27°41'09 | 10≈ 4 | 29 米 25 | 6°52 | 18° 0 | 5°55 | 1°14 | 7°25 | 0°27 | 29°49 | 22°11 | 23°32 | 14°25 | 10° 3 | T 18 |
| W19 | 11 47 6 | 28°40'39 | 24°53 | 28°33 | 7°20 | 18°29 | 5°58 | 1°21 | 7°28 | 0°28 | 29°49 | 22° 8 | 23°29 | 14°31 | 10° 6 | W19 |
| T 20 | 11 51 2 | 29°40'07 | 9 ∺ 58 | 27°40 | 7°45 | 18°57 | 6° 2 | 1°28 | 7°31 | 0°30 | 29°49 | 22° 5 | 23°26 | 14°38 | 10°10 | T 20 |
| F 21 | 11 54 59 | 0 Ƴ 39'33 | 25°10 | 26°47 | 8° 9 | 19°25 | 6° 5 | 1°35 | 7°34 | 0°31 | 29°49 | 22° 2 | 23°22 | 14°45 | 10°14 | F 21 |
| S 22 | 11 58 55 | 1°38'56 | 10 Y 20 | 25°56 | 8°31 | 19°52 | 6° 9 | 1°41 | 7°38 | 0°32 | 29°50 | 22° 1 | 23°19 | 14°51 | 10°18 | S 22 |
| S 23 | 12 2 52 | 2°38'18 | 25°16 | 25° 6 | 8°51 | 20°20 | 6°13 | 1°48 | 7°41 | 0°34 | 29°50 | 22°D 1 | 23°16 | 14°58 | 10°21 | S 23 |
| M24 | 12 6 49 | 3°37'38 | 9 8 53 | 24°20 | 9° 9 | 20°47 | 6°18 | 1°54 | 7°44 | 0°35 | 29°50 | 22° 1 | 23°13 | 15° 5 | 10°25 | M24 |
| T 25 | 12 10 45 | 4°36'55 | 24° 4 | 23°38 | 9°25 | 21°14 | 6°22 | 2° 1 | 7°47 | 0°36 | 29°50 | 22° 2 | 23°10 | 15°11 | 10°28 | T 25 |
| W26 | 12 14 42 | 5°36'10 | 7∏49 | 23° 0 | 9°39 | 21°41 | 6°26 | 2° 8 | 7°50 | 0°37 | 29°50 | 22° 4 | 23° 6 | 15°18 | 10°32 | W26 |
| T 27 | 12 18 38 | 6°35'23 | 21° 7 | 22°26 | 9°51 | 22° 7 | 6°31 | 2°14 | 7°53 | 0°38 | 29°51 | 22° 5 | 23° 3 | 15°25 | 10°36 | T 27 |
| F 28 | 12 22 35 | 7°34'33 | 499 1 | 21°58 | 10° 1 | 22°34 | 6°36 | 2°20 | 7°57 | 0°40 | 29°51 | 22°R 5 | 23° 0 | 15°31 | 10°39 | F 28 |
| S 29 | 12 26 31 | 8°33'41 | 16°35 | 21°36 | 10° 9 | 23° 0 | 6°41 | 2°27 | 8° 0 | 0°41 | 29°51 | 22° 5 | 22°57 | 15°38 | 10°43 | S 29 |
| S 30 | 12 30 28 | 9°32'47 | 28°51 | 21°18 | 10°14 | 23°26 | 6°46 | 2°33 | 8° 3 | 0°42 | 29°52 | 22° 4 | 22°54 | 15°45 | 10°46 | S 30 |
| M31 | 12 34 24 | 10 ° 31'50 | 10 Ω 55 | 21 米 7 | 10817 | 23 × 751 | 6952 | 2 ∺ 39 | 8 ℋ 6 | 0≈43 | 29∏52 | 22 ° 3 | 22 Y 51 | 15 m 51 | 10 ∺ 50 | M31 |

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Greg. Calendar

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| T 1 | 12 38 21 | 11 ° 30'51 | 22 Ω 50 | 21°R 1 | 10°R17 | 24 × 16 | 6957 | 2) (46 | 8 米 9 | 0≈44 | 29耳53 | 22°R 2 | 22 Y 47 | 15 m 58 | 10 米 53 | T 1 |
| W 2 | 12 42 18 | 12°29'50 | | 21°D 1 | 10815 | 24°41 | 7° 3 | 2°52 | 8°12 | 0°45 | 29°53 | 22 ° 0 | 22°44 | 16° 5 | 10°57 | W 2 |
| T 3 | 12 46 14 | 13°28'47 | 16°30 | 21 米 6 | 10°11 | 25° 6 | 7° 9 | 2°58 | 8°15 | 0°46 | 29°54 | 21°59 | 22°41 | 16°11 | 11° 0 | T 3 |
| F 4 | 12 50 11 | 14°27'41 | 28°20 | 21°16 | 10° 4 | 25°31 | 7°15 | 3° 4 | 8°18 | 0°47 | 29°54 | 21°58 | 22°38 | 16°18 | 11° 4 | F 4 |
| S 5 | 12 54 7 | 15°26'33 | 10 ≏ 14 | 21°31 | 9°55 | 25°55 | 7°21 | 3°10 | 8°21 | 0°48 | 29°55 | 21°57 | 22°35 | 16°25 | 11° 7 | S 5 |
| S 6 | 12 58 4 | 16°25'24 | 22°13 | 21°51 | 9°43 | 26°19 | 7°27 | 3°16 | 8°24 | 0°49 | 29°55 | 21°D57 | 22°32 | 16°31 | 11°10 | S 6 |
| M 7 | 13 2 0 | 17°24'12 | 4 M L20 | 22°16 | 9°28 | 26°42 | 7°34 | 3°22 | 8°26 | 0°50 | 29°56 | 21°57 | 22°28 | 16°38 | 11°14 | M 7 |
| T 8 | 13 5 57 | 18°22'58 | 16°37 | 22°45 | 9°12 | 27° 6 | 7°40 | 3°28 | 8°29 | 0°50 | 29°56 | 21°58 | 22°25 | 16°45 | 11°17 | T 8 |
| W 9 | 13 9 53 | 19°21'43 | 29° 5 | 23°18 | 8°53 | 27°28 | 7°47 | 3°34 | 8°32 | 0°51 | 29°57 | 21°58 | 22°22 | 16°51 | 11°20 | W 9 |
| T 10 | 13 13 50 | 20°20'26 | 11 ~ 146 | 23°56 | 8°31 | 27°51 | 7°54 | 3°39 | 8°35 | 0°52 | 29°57 | 21°58 | 22°19 | 16°58 | 11°23 | T 10 |
| F 11 | 13 17 46 | 21°19'07 | 24°43 | 24°37 | 8° 7 | 28°13 | 8° 1 | 3°45 | 8°38 | 0°53 | 29°58 | 21°58 | 22°16 | 17° 5 | 11°26 | F 11 |
| S 12 | 13 21 43 | 22°17'46 | 7 궁 57 | 25°22 | 7°42 | 28°35 | 8° 8 | 3°51 | 8°40 | 0°53 | 29°59 | 21°R58 | 22°12 | 17°11 | 11°30 | S 12 |
| S 13 | 13 25 40 | 23°16'24 | 21°29 | 26°10 | 7°14 | 28°57 | 8°15 | 3°56 | 8°43 | 0°54 | 29°59 | 21°D58 | 22° 9 | 17°18 | 11°33 | S 13 |
| M14 | 13 29 36 | 24°15'00 | 5≈22 | 27° 2 | 6°44 | 29°18 | 8°23 | 4° 2 | 8°46 | 0°55 | 29°59 | 21°58 | 22° 6 | 17°25 | 11°36 | M14 |
| T 15 | 13 33 33 | 25°13'34 | 19°34 | 27°57 | 6°13 | 29°39 | 8°30 | 4° 7 | 8°48 | 0°55 | 0න 1 | 21°59 | 22° 3 | 17°31 | 11°39 | T 15 |
| W16 | 13 37 29 | 26°12'07 | 4) | 28°55 | 5°40 | 29°59 | 8°38 | 4°13 | 8°51 | 0°56 | 0° 1 | 21°59 | 22° 0 | 17°38 | 11°42 | W16 |
| T 17 | 13 41 26 | 27°10'38 | 18°48 | 29°55 | 5° 5 | 0 궁 19 | 8°46 | 4°18 | 8°53 | 0°56 | 0° 2 | 21°59 | 21°57 | 17°45 | 11°45 | T 17 |
| F 18 | 13 45 22 | 28° 9'07 | 3 Υ 41 | 0 Υ 59 | 4°30 | 0°39 | 8°54 | 4°23 | 8°56 | 0°57 | 0° 3 | 22° 0 | 21°53 | 17°51 | 11°48 | F 18 |
| S 19 | 13 49 19 | 29° 7'34 | 18°34 | 2° 5 | 3°53 | 0°58 | 9° 2 | 4°29 | 8°58 | 0°57 | 0° 4 | 22°R 0 | 21°50 | 17°58 | 11°51 | S 19 |
| S 20 | 13 53 15 | 0 8 6'00 | 3 8 21 | 3°14 | 3°16 | 1°17 | 9°10 | 4°34 | 9° 1 | 0°58 | 0° 5 | 22° 0 | 21°47 | 18° 5 | 11°54 | S 20 |
| M21 | 13 57 12 | 1° 4'24 | 17°54 | 4°25 | 2°39 | 1°35 | 9°18 | 4°39 | 9° 3 | 0°58 | 0° 5 | 21°59 | 21°44 | 18°11 | 11°56 | M21 |
| T 22 | 14 1 9 | 2° 2'46 | 2 I I 8 | 5°38 | 2° 1 | 1°53 | 9°27 | 4°44 | 9° 6 | 0°59 | 0° 6 | 21°58 | 21°41 | 18°18 | 11°59 | T 22 |
| W23 | 14 5 5 | 3° 1'06 | 15°57 | 6°54 | 1°23 | 2°11 | 9°35 | 4°49 | 9° 8 | 0°59 | 0° 7 | 21°57 | 21°38 | 18°25 | 12° 2 | W23 |
| T 24 | 14 9 2 | 3°59'24 | 29°22 | 8°12 | 0°46 | 2°28 | 9°44 | 4°54 | 9°10 | 0°59 | 0° 8 | 21°56 | 21°34 | 18°31 | 12° 5 | T 24 |
| F 25 | 14 12 58 | 4°57'40 | 129522 | 9°33 | 0° 9 | 2°44 | 9°53 | 4°59 | 9°13 | 1° 0 | 0° 9 | 21°54 | 21°31 | 18°38 | 12° 7 | F 25 |
| S 26 | 14 16 55 | 5°55'54 | 24°59 | 10°55 | 29 Y 33 | 3° 0 | 10° 2 | 5° 3 | 9°15 | 1° 0 | 0°10 | 21°53 | 21°28 | 18°45 | 12°10 | S 26 |
| S 27 | 14 20 51 | 6°54'06 | 7 Ω 18 | 12°20 | 28°57 | 3°16 | 10°11 | 5° 8 | 9°17 | 1° 0 | 0°11 | 21°D53 | 21°25 | 18°51 | 12°13 | S 27 |
| M28 | 14 24 48 | 7°52'16 | 19°23 | 13°46 | 28°23 | 3°31 | 10°20 | 5°13 | 9°19 | 1° 0 | 0°12 | 21°53 | 21°22 | 18°58 | 12°15 | M28 |
| T 29 | 14 28 44 | 8°50'24 | 1 m p 17 | 15°15 | 27°50 | 3°45 | 10°29 | 5°17 | 9°22 | 1° 0 | 0°13 | 21°54 | 21°18 | 19° 5 | 12°18 | T 29 |
| W30 | 14 32 41 | 9 8 48'30 | 13 m 7 | 16 Ƴ 46 | 27 Υ 19 | 3 る 59 | 10939 | 5 ∺ 22 | 9 ∺ 24 | 1≈ 1 | 09୍ତ14 | 21 Y 56 | 21 Υ 15 | 19 m y11 | 12 米 20 | W30 |

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MAY 1670 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | δ | 4 | ħ |)∤(| ¥ | В | ₽. | ಬ | Ç | , к | Day |
|------|----------|----------|---------------|----------------|----------------|---------------|--------|---------------|---------------|-------|-------|----------------|----------------|-----------------|----------------|------|
| T 1 | 14 36 38 | 10846'34 | 24 Mp 56 | 18 Y 18 | 26°R50 | 4 ට 13 | 109548 | 5 ∺ 26 | 9 ∺ 26 | 1≈ 1 | 09915 | 21 Y 57 | 21 Υ 12 | 19 m)18 | 12) 23 | T 1 |
| F 2 | 14 40 34 | 11°44'36 | 6 ₽ 49 | 19°53 | 26 Y 22 | 4°26 | 10°58 | 5°30 | 9°28 | 1° 1 | 0°16 | 21°59 | 21° 9 | 19°25 | 12°25 | F 2 |
| S 3 | 14 44 31 | 12°42'36 | 18°48 | 21°30 | 25°57 | 4°38 | 11°8 | 5°34 | 9°30 | 1°R 1 | 0°17 | 21°R59 | 21° 6 | 19°31 | 12°27 | S 3 |
| S 4 | 14 48 27 | 13°40'34 | 0 M 57 | 23° 8 | 25°34 | 4°50 | 11°17 | 5°39 | 9°32 | 1° 1 | 0°18 | 21°59 | 21° 3 | 19°38 | 12°30 | S 4 |
| M 5 | 14 52 24 | 14°38'31 | 13°17 | 24°49 | 25°13 | 5° 1 | 11°27 | 5°43 | 9°33 | 1° 1 | 0°19 | 21°58 | 20°59 | 19°45 | 12°32 | M 5 |
| T 6 | 14 56 20 | 15°36'27 | 25°51 | 26°32 | 24°54 | 5°12 | 11°37 | 5°47 | 9°35 | 1° 0 | 0°20 | 21°55 | 20°56 | 19°51 | 12°34 | T 6 |
| W 7 | 15 0 17 | 16°34'21 | 8 ₹ 38 | 28°16 | 24°37 | 5°22 | 11°47 | 5°50 | 9°37 | 1° 0 | 0°21 | 21°52 | 20°53 | 19°58 | 12°36 | W 7 |
| T 8 | 15 4 13 | 17°32'13 | 21°39 | 0 ප 3 | 24°23 | 5°31 | 11°57 | 5°54 | 9°39 | 1° 0 | 0°22 | 21°48 | 20°50 | 20° 5 | 12°38 | T 8 |
| F 9 | 15 8 10 | 18°30'04 | 4 궁 54 | 1°51 | 24°12 | 5°40 | 12° 8 | 5°58 | 9°41 | 1° 0 | 0°23 | 21°44 | 20°47 | 20°11 | 12°40 | F 9 |
| S 10 | 15 12 7 | 19°27'54 | 18°22 | 3°42 | 24° 3 | 5°48 | 12°18 | 6° 2 | 9°42 | 1° 0 | 0°25 | 21°41 | 20°43 | 20°18 | 12°42 | S 10 |
| S 11 | 15 16 3 | 20°25'43 | 2≈ 4 | 5°34 | 23°56 | 5°56 | 12°29 | 6° 5 | 9°44 | 1° 0 | 0°26 | 21°38 | 20°40 | 20°25 | 12°44 | S 11 |
| M12 | 15 20 0 | 21°23'31 | 15°57 | 7°29 | 23°52 | 6° 3 | 12°39 | 6° 9 | 9°46 | 0°59 | 0°27 | 21°D37 | 20°37 | 20°31 | 12°46 | M12 |
| T 13 | 15 23 56 | 22°21'17 | 0 ∀ 2 | 9°25 | 23°D50 | 6° 9 | 12°50 | 6°12 | 9°47 | 0°59 | 0°28 | 21°37 | 20°34 | 20°38 | 12°48 | T 13 |
| W14 | 15 27 53 | 23°19'02 | 14°16 | 11°23 | 23°50 | 6°14 | 13° 0 | 6°15 | 9°49 | 0°59 | 0°29 | 21°38 | 20°31 | 20°45 | 12°50 | W14 |
| T 15 | 15 31 49 | 24°16'46 | 28°39 | 13°24 | 23°53 | 6°19 | 13°11 | 6°19 | 9°50 | 0°58 | 0°30 | 21°40 | 20°28 | 20°51 | 12°52 | T 15 |
| F 16 | 15 35 46 | 25°14'29 | 13 ° 6 | 15°26 | 23°58 | 6°23 | 13°22 | 6°22 | 9°52 | 0°58 | 0°32 | 21°41 | 20°24 | 20°58 | 12°53 | F 16 |
| S 17 | 15 39 42 | 26°12'11 | 27°35 | 17°29 | 24° 6 | 6°27 | 13°33 | 6°25 | 9°53 | 0°57 | 0°33 | 21°R41 | 20°21 | 21° 5 | 12°55 | S 17 |
| S 18 | 15 43 39 | 27° 9'52 | 128 0 | 19°35 | 24°15 | 6°29 | 13°44 | 6°28 | 9°54 | 0°57 | 0°34 | 21°39 | 20°18 | 21°11 | 12°57 | S 18 |
| M19 | 15 47 36 | 28° 7'32 | 26°15 | 21°42 | 24°27 | 6°31 | 13°55 | 6°31 | 9°56 | 0°56 | 0°35 | 21°36 | 20°15 | 21°18 | 12°58 | M19 |
| T 20 | 15 51 32 | 29° 5'10 | 10耳17 | 23°50 | 24°41 | 6°32 | 14° 6 | 6°33 | 9°57 | 0°56 | 0°37 | 21°31 | 20°12 | 21°25 | 13° 0 | T 20 |
| W21 | 15 55 29 | 0耳 2'48 | 24° 0 | 25°59 | 24°56 | 6°R33 | 14°18 | 6°36 | 9°58 | 0°55 | 0°38 | 21°26 | 20° 9 | 21°31 | 13° 1 | W21 |
| T 22 | 15 59 25 | 1° 0'24 | 79522 | 28°10 | 25°14 | 6°33 | 14°29 | 6°39 | 9°59 | 0°55 | 0°39 | 21°19 | 20° 5 | 21°38 | 13° 3 | T 22 |
| F 23 | 16 3 22 | 1°57'58 | 20°22 | 0Д21 | 25°33 | 6°32 | 14°40 | 6°41 | 10° 0 | 0°54 | 0°41 | 21°13 | 20° 2 | 21°45 | 13° 4 | F 23 |
| S 24 | 16 7 18 | 2°55'31 | 3 Ω 1 | 2°33 | 25°54 | 6°30 | 14°52 | 6°44 | 10° 1 | 0°54 | 0°42 | 21° 8 | 19°59 | 21°51 | 13° 5 | S 24 |
| S 25 | 16 11 15 | 3°53'03 | 15°21 | 4°45 | 26°17 | 6°27 | 15° 3 | 6°46 | 10° 2 | 0°53 | 0°43 | 21° 4 | 19°56 | 21°58 | 13° 6 | S 25 |
| M26 | 16 15 12 | 4°50'34 | 27°26 | 6°56 | 26°42 | 6°24 | 15°15 | 6°48 | 10° 3 | 0°52 | 0°45 | 21° 3 | 19°53 | 22° 5 | 13° 8 | M26 |
| T 27 | 16 19 8 | 5°48'03 | 9 m 22 | 9° 8 | 27° 8 | 6°20 | 15°27 | 6°50 | 10° 4 | 0°51 | 0°46 | 21°D 2 | 19°49 | 22°11 | 13° 9 | T 27 |
| W28 | 16 23 5 | 6°45'31 | 21°12 | 11°19 | 27°36 | 6°15 | 15°38 | 6°52 | 10° 5 | 0°51 | 0°47 | 21° 3 | 19°46 | 22°18 | 13°10 | W28 |
| T 29 | 16 27 1 | 7°42'57 | 3 ₾ 1 | 13°30 | 28° 5 | 6°10 | 15°50 | 6°54 | 10° 6 | 0°50 | 0°49 | 21° 5 | 19°43 | 22°25 | 13°11 | T 29 |
| F 30 | 16 30 58 | 8°40'23 | 14°56 | 15°39 | 28°36 | 6° 3 | 16° 2 | 6°56 | 10° 7 | 0°49 | 0°50 | 21°R 6 | 19°40 | 22°31 | 13°12 | F 30 |
| S 31 | 16 34 54 | 9∏37'47 | 27 <u>♀</u> 0 | 17 Ⅱ 47 | 29 Y 8 | 5 る 56 | 169914 | 6 ∺ 58 | 10 ∺ 7 | 0≈48 | 0951 | 21 ° 6 | 19 Y 37 | 22 m 38 | 13 米 13 | S 31 |
| | | | | | | - | | | - • | | | | | | | |

Delta T = 29.53 sec

Greg. Calendar

| JUNE 1670 GC | 00:00 UT |
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| Day | Sid.t | \odot | D | φ | · | ď | 4 | ħ |)∤(| ¥ | 2 | ß | Ω | ţ | Š | Day |
|------|----------|-------------------|----------------|----------------|----------------|-----------------|--------|--------------|---------------|-------|------|----------------|----------------|----------------|------------------|------|
| S 1 | 16 38 51 | 10 耳 35′10 | 9 M .18 | 19 Ⅱ 53 | 29 Y 41 | 5°R49 | 169526 | 7 ∺ 0 | 10 ∀ 8 | 0°R47 | 0953 | 21°R 4 | 19 ° 34 | 22 Mp 45 | 13) (14 | S 1 |
| M 2 | 16 42 47 | 11°32'32 | 21°51 | 21°58 | 0816 | 5 る 40 | 16°38 | 7° 1 | 10° 9 | 0≈46 | 0°54 | 21 ° 0 | 19°30 | 22°51 | 13°14 | M 2 |
| T 3 | 16 46 44 | 12°29'53 | 4 ₹ 42 | 24° 0 | 0°52 | 5°31 | 16°50 | 7° 3 | 10° 9 | 0°46 | 0°56 | 20°54 | 19°27 | 22°58 | 13°15 | T 3 |
| W 4 | 16 50 41 | 13°27'14 | 17°51 | 26° 1 | 1°29 | 5°21 | 17° 2 | 7° 4 | 10°10 | 0°45 | 0°57 | 20°47 | 19°24 | 23° 5 | 13°16 | W 4 |
| T 5 | 16 54 37 | 14°24'34 | 1 궁 16 | 28° 0 | 2° 8 | 5°11 | 17°15 | 7° 5 | 10°10 | 0°44 | 0°59 | 20°38 | 19°21 | 23°11 | 13°17 | T 5 |
| F 6 | 16 58 34 | 15°21'53 | 14°56 | 29°57 | 2°47 | 4°59 | 17°27 | 7° 6 | 10°11 | 0°43 | 1° 0 | 20°29 | 19°18 | 23°18 | 13°17 | F 6 |
| S 7 | 17 2 30 | 16°19'11 | 28°47 | 1951 | 3°28 | 4°48 | 17°39 | 7° 8 | 10°11 | 0°42 | 1° 1 | 20°21 | 19°15 | 23°25 | 13°18 | S 7 |
| S 8 | 17 6 27 | 17°16'29 | 12≈47 | 3°43 | 4° 9 | 4°35 | 17°51 | 7° 9 | 10°11 | 0°41 | 1° 3 | 20°15 | 19°11 | 23°31 | 13°18 | S 8 |
| M 9 | 17 10 23 | 18°13'47 | 26°52 | 5°32 | 4°52 | 4°22 | 18° 4 | 7° 9 | 10°12 | 0°40 | 1° 4 | 20°11 | 19°8 | 23°38 | 13°19 | M 9 |
| T 10 | 17 14 20 | 19°11'04 | 11 米 0 | 7°20 | 5°35 | 4° 8 | 18°16 | 7°10 | 10°12 | 0°38 | 1° 6 | 20° 9 | 19° 5 | 23°45 | 13°19 | T 10 |
| W11 | 17 18 16 | 20° 8'21 | 25° 9 | 9° 4 | 6°20 | 3°54 | 18°29 | 7°11 | 10°12 | 0°37 | 1° 7 | 20°D 9 | 19° 2 | 23°51 | 13°19 | W11 |
| T 12 | 17 22 13 | 21° 5'37 | 9 Υ 17 | 10°47 | 7° 5 | 3°39 | 18°41 | 7°11 | 10°12 | 0°36 | 1° 9 | 20° 9 | 18°59 | 23°58 | 13°20 | T 12 |
| F 13 | 17 26 10 | 22° 2'53 | 23°25 | 12°27 | 7°51 | 3°24 | 18°54 | 7°12 | 10°12 | 0°35 | 1°10 | 20°R 9 | 18°55 | 24° 5 | 13°20 | F 13 |
| S 14 | 17 30 6 | 23° 0'09 | 7 8 29 | 14° 4 | 8°38 | 3° 8 | 19° 7 | 7°12 | 10°R12 | 0°34 | 1°12 | 20° 8 | 18°52 | 24°11 | 13°20 | S 14 |
| S 15 | 17 34 3 | 23°57'25 | 21°28 | 15°39 | 9°26 | 2°52 | 19°19 | 7°13 | 10°12 | 0°33 | 1°13 | 20° 5 | 18°49 | 24°18 | 13°20 | S 15 |
| M16 | 17 37 59 | 24°54'41 | 5 Ⅱ 19 | 17°11 | 10°14 | 2°35 | 19°32 | 7°13 | 10°12 | 0°31 | 1°14 | 19°59 | 18°46 | 24°25 | 13°R20 | M16 |
| T 17 | 17 41 56 | 25°51'56 | 18°59 | 18°41 | 11° 4 | 2°18 | 19°45 | 7°R13 | 10°12 | 0°30 | 1°16 | 19°50 | 18°43 | 24°31 | 13°20 | T 17 |
| W18 | 17 45 52 | 26°49'11 | 29525 | 20° 9 | 11°53 | 2° 1 | 19°57 | 7°13 | 10°12 | 0°29 | 1°17 | 19°40 | 18°40 | 24°38 | 13°20 | W18 |
| T 19 | 17 49 49 | 27°46'26 | 15°35 | 21°34 | 12°44 | 1°43 | 20°10 | 7°13 | 10°12 | 0°28 | 1°19 | 19°29 | 18°36 | 24°45 | 13°20 | T 19 |
| F 20 | 17 53 45 | 28°43'40 | 28°27 | 22°56 | 13°35 | 1°25 | 20°23 | 7°13 | 10°12 | 0°26 | 1°20 | 19°18 | 18°33 | 24°51 | 13°20 | F 20 |
| S 21 | 17 57 42 | 29°40'54 | 11 0 0 | 24°16 | 14°27 | 1° 7 | 20°36 | 7°12 | 10°11 | 0°25 | 1°22 | 19° 8 | 18°30 | 24°58 | 13°19 | S 21 |
| S 22 | 18 139 | 0938'07 | 23°18 | 25°33 | 15°19 | 0°49 | 20°49 | 7°12 | 10°11 | 0°24 | 1°23 | 19° 0 | 18°27 | 25° 5 | 13°19 | S 22 |
| M23 | 18 5 35 | 1°35'20 | 5 Mp 22 | 26°47 | 16°12 | 0°31 | 21° 2 | 7°11 | 10°11 | 0°22 | 1°25 | 18°55 | 18°24 | 25°11 | 13°19 | M23 |
| T 24 | 18 9 32 | 2°32'32 | 17°16 | 27°59 | 17° 6 | 0°12 | 21°15 | 7°11 | 10°10 | 0°21 | 1°26 | 18°52 | 18°21 | 25°18 | 13°18 | T 24 |
| W25 | 18 13 28 | 3°29'44 | 29° 6 | 29° 7 | 18° 0 | 29 .7 54 | 21°28 | 7°10 | 10°10 | 0°19 | 1°28 | 18°D51 | 18°17 | 25°24 | 13°18 | W25 |
| T 26 | 18 17 25 | 4°26'56 | 10 ≏ 55 | 0Ω 13 | 18°54 | 29°35 | 21°41 | 7° 9 | 10° 9 | 0°18 | 1°29 | 18°51 | 18°14 | 25°31 | 13°17 | T 26 |
| F 27 | 18 21 21 | 5°24'07 | 22°51 | 1°16 | 19°49 | 29°17 | 21°54 | 7° 8 | 10° 9 | 0°17 | 1°31 | 18°R51 | 18°11 | 25°38 | 13°17 | F 27 |
| S 28 | 18 25 18 | 6°21'18 | 4 M 57 | 2°15 | 20°45 | 28°59 | 22° 7 | 7° 7 | 10° 8 | 0°15 | 1°32 | 18°50 | 18° 8 | 25°44 | 13°16 | S 28 |
| S 29 | 18 29 14 | 7°18'28 | 17°20 | 3°12 | 21°41 | 28°41 | 22°20 | 7° 6 | 10° 7 | 0°14 | 1°34 | 18°47 | 18° 5 | 25°51 | 13°15 | S 29 |
| M30 | 18 33 11 | 8915'39 | 0 ∡ 2 | 4 Ω 5 | 22 8 37 | 28 × 23 | 22933 | 7 ∺ 5 | 10 ∺ 7 | 0≈12 | 1935 | 18 Y 42 | 18 Ƴ 1 | 25 m 58 | 13 米 14 | M30 |

Delta T = 29.48 sec

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|------|----------|------------------|----------------|---------------|----------------|-----------------|--------|---------------|---------------|----------------|-------|----------------|----------------|----------------|-----------------|------|
| T 1 | 18 37 8 | 99512'49 | 13 ₹ 6 | 4 Ω 55 | 23 8 34 | 28°R 6 | 229546 | 7°R 4 | 10°R 6 | 0°R11 | 1937 | 18°R34 | 17 Y 58 | 26M) 4 | 13°R14 | T 1 |
| W 2 | 18 41 4 | 10°10'00 | 26°32 | 5°41 | 24°32 | 27 . ₹49 | 22°59 | 7 ∺ 2 | 10 米 5 | 0≈ 9 | 1°38 | 18 Y 24 | 17°55 | 26°11 | 13 米 13 | W 2 |
| T 3 | 18 45 1 | 11° 7'10 | 10 ට 20 | 6°24 | 25°29 | 27°32 | 23°13 | 7° 1 | 10° 4 | 0° 8 | 1°40 | 18°13 | 17°52 | 26°18 | 13°12 | T 3 |
| F 4 | 18 48 57 | 12° 4'21 | 24°25 | 7° 2 | 26°27 | 27°16 | 23°26 | 6°59 | 10° 3 | 0° 6 | 1°41 | 18° 1 | 17°49 | 26°24 | 13°11 | F 4 |
| S 5 | 18 52 54 | 13° 1'31 | 8≈42 | 7°37 | 27°26 | 27° 0 | 23°39 | 6°58 | 10° 2 | 0° 5 | 1°42 | 17°51 | 17°46 | 26°31 | 13°10 | S 5 |
| S 6 | 18 56 50 | 13°58'42 | 23° 7 | 8° 8 | 28°25 | 26°44 | 23°52 | 6°56 | 10° 1 | 0° 3 | 1°44 | 17°42 | 17°42 | 26°38 | 13° 9 | S 6 |
| M 7 | 19 0 47 | 14°55'54 | 7 ∺ 32 | 8°35 | 29°24 | 26°29 | 24° 6 | 6°54 | 10° 0 | 0° 2 | 1°45 | 17°36 | 17°39 | 26°44 | 13° 8 | M 7 |
| T 8 | 19 4 44 | 15°53'06 | 21°53 | 8°57 | 0∏24 | 26°15 | 24°19 | 6°52 | 9°59 | 0° 0 | 1°47 | 17°33 | 17°36 | 26°51 | 13° 7 | T 8 |
| W 9 | 19 8 40 | 16°50'18 | 6 Υ 8 | 9°15 | 1°24 | 26° 1 | 24°32 | 6°50 | 9°58 | 29 궁 59 | 1°48 | 17°32 | 17°33 | 26°58 | 13° 5 | W 9 |
| T 10 | 19 12 37 | 17°47'31 | 20°14 | 9°28 | 2°24 | 25°48 | 24°45 | 6°48 | 9°57 | 29°57 | 1°50 | 17°32 | 17°30 | 27° 4 | 13° 4 | T 10 |
| F 11 | 19 16 33 | 18°44'45 | 4 8 11 | 9°37 | 3°25 | 25°35 | 24°59 | 6°46 | 9°56 | 29°55 | 1°51 | 17°31 | 17°27 | 27°11 | 13° 3 | F 11 |
| S 12 | 19 20 30 | 19°41'59 | 17°58 | 9°R40 | 4°26 | 25°23 | 25°12 | 6°44 | 9°55 | 29°54 | 1°53 | 17°30 | 17°23 | 27°18 | 13° 1 | S 12 |
| S 13 | 19 24 26 | 20°39'15 | 1 Ⅲ 36 | 9°39 | 5°27 | 25°12 | 25°25 | 6°41 | 9°53 | 29°52 | 1°54 | 17°25 | 17°20 | 27°24 | 13° 0 | S 13 |
| M14 | 19 28 23 | 21°36'31 | 15° 4 | 9°33 | 6°29 | 25° 1 | 25°39 | 6°39 | 9°52 | 29°51 | 1°55 | 17°18 | 17°17 | 27°31 | 12°58 | M14 |
| T 15 | 19 32 19 | 22°33'47 | 28°20 | 9°23 | 7°31 | 24°51 | 25°52 | 6°36 | 9°51 | 29°49 | 1°57 | 17° 9 | 17°14 | 27°38 | 12°57 | T 15 |
| W16 | 19 36 16 | 23°31'05 | 119525 | 9° 7 | 8°33 | 24°42 | 26° 5 | 6°34 | 9°49 | 29°47 | 1°58 | 16°57 | 17°11 | 27°44 | 12°55 | W16 |
| T 17 | 19 40 13 | 24°28'22 | 24°16 | 8°47 | 9°35 | 24°33 | 26°19 | 6°31 | 9°48 | 29°46 | 2° 0 | 16°44 | 17° 7 | 27°51 | 12°54 | T 17 |
| F 18 | 19 44 9 | 25°25'41 | 6Ω 53 | 8°22 | 10°38 | 24°26 | 26°32 | 6°28 | 9°46 | 29°44 | 2° 1 | 16°31 | 17° 4 | 27°58 | 12°52 | F 18 |
| S 19 | 19 48 6 | 26°23'00 | 19°17 | 7°53 | 11°41 | 24°19 | 26°45 | 6°25 | 9°45 | 29°42 | 2° 2 | 16°20 | 17° 1 | 28° 4 | 12°50 | S 19 |
| S 20 | 19 52 2 | 27°20'19 | 1 m 27 | 7°20 | 12°44 | 24°13 | 26°59 | 6°22 | 9°43 | 29°41 | 2° 4 | 16°11 | 16°58 | 28°11 | 12°49 | S 20 |
| M21 | 19 55 59 | 28°17'39 | 13°27 | 6°44 | 13°47 | 24° 8 | 27°12 | 6°19 | 9°42 | 29°39 | 2° 5 | 16° 4 | 16°55 | 28°18 | 12°47 | M21 |
| T 22 | 19 59 55 | 29°15'00 | 25°18 | 6° 4 | 14°51 | 24° 4 | 27°25 | 6°16 | 9°40 | 29°38 | 2° 6 | 16° 0 | 16°52 | 28°24 | 12°45 | T 22 |
| W23 | 20 3 52 | 0 Ω 12'20 | 7 요 6 | 5°23 | 15°55 | 24° 0 | 27°39 | 6°13 | 9°38 | 29°36 | 2° 8 | 15°59 | 16°48 | 28°31 | 12°43 | W23 |
| T 24 | 20 7 48 | 1° 9'42 | 18°54 | 4°39 | 16°59 | 23°58 | 27°52 | 6°10 | 9°37 | 29°34 | 2° 9 | 15°D58 | 16°45 | 28°37 | 12°41 | T 24 |
| F 25 | 20 11 45 | 2° 7'04 | 0 M .49 | 3°55 | 18° 3 | 23°56 | 28° 5 | 6° 6 | 9°35 | 29°33 | 2°10 | 15°R58 | 16°42 | 28°44 | 12°39 | F 25 |
| S 26 | 20 15 42 | 3° 4'27 | 12°55 | 3°11 | 19° 8 | 23°55 | 28°19 | 6° 3 | 9°33 | 29°31 | 2°12 | 15°58 | 16°39 | 28°51 | 12°37 | S 26 |
| S 27 | 20 19 38 | 4° 1'50 | 25°17 | 2°27 | 20°12 | 23°D55 | 28°32 | 6° 0 | 9°31 | 29°29 | 2°13 | 15°56 | 16°36 | 28°57 | 12°35 | S 27 |
| M28 | 20 23 35 | 4°59'14 | 8 . ₹ 2 | 1°44 | 21°17 | 23°56 | 28°45 | 5°56 | 9°30 | 29°28 | 2°14 | 15°52 | 16°33 | 29° 4 | 12°33 | M28 |
| T 29 | 20 27 31 | 5°56'38 | 2 <u>1°</u> 11 | 1° 4 | 22°22 | 23°57 | 28°58 | 5°52 | 9°28 | 29°26 | 2°15 | 15°46 | 16°29 | 29°11 | 12°31 | T 29 |
| W30 | 20 31 28 | 6°54'04 | 4 조 46 | 0°27 | 23°28 | 24° 0 | 29°12 | 5°49 | 9°26 | 29°25 | 2°17 | 15°37 | 16°26 | 29°17 | 12°29 | W30 |
| T 31 | 20 35 24 | 7 Ω 51'30 | 18 る 48 | 29953 | 24∏33 | 24 × 3 | 299525 | 5) 45 | 9 ∺ 24 | 29 궁 23 | 29518 | 15 Ƴ 27 | 16 ℃ 23 | 29 m 24 | 12) (26 | T 31 |

Delta T = 29.42 sec

Greg. Calendar

| AUGUST 1670 GC | 00:00 UT |
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| | ,J. ±0, | o ao | | | | | | | | | | | | | | |
|------|----------|------------------|----------------|---------------|--------|---------------|--------------|----------------|---------------|----------------|-------|----------------|----------------|----------------|----------------|------|
| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)ұ(| ¥ | Р | u | v | Ç | ę, | Day |
| F 1 | 20 39 21 | 8 Ω 48'57 | 3≈11 | 29°R24 | 25耳39 | 24 √ 7 | 29938 | 5°R41 | 9°R22 | 29°R21 | 29519 | 15°R17 | 16 Y 20 | 29 m 31 | 12°R24 | F 1 |
| S 2 | 20 43 17 | 9°46'25 | 17°51 | 2999 0 | 26°45 | 24°12 | 29°51 | 5) €37 | 9 ∺ 20 | 29 궁 20 | 2°20 | 15 Y 8 | 16°17 | 29°37 | 12 ∺ 22 | S 2 |
| S 3 | 20 47 14 | 10°43'54 | 2) (40 | 28°42 | 27°51 | 24°18 | oΩ 5 | 5°34 | 9°18 | 29°18 | 2°22 | 15° 0 | 16°13 | 29°44 | 12°20 | S 3 |
| M 4 | 20 51 11 | 11°41'24 | 17°28 | 28°29 | 28°57 | 24°24 | 0°18 | 5°30 | 9°16 | 29°17 | 2°23 | 14°55 | 16°10 | 29°51 | 12°17 | M 4 |
| T 5 | 20 55 7 | 12°38'56 | 2 Υ 10 | 28°D23 | 0 | 24°32 | 0°31 | 5°26 | 9°14 | 29°15 | 2°24 | 14°53 | 16° 7 | 29°57 | 12°15 | T 5 |
| W 6 | 20 59 4 | 13°36'29 | 16°40 | 28°24 | 1°10 | 24°40 | 0°44 | 5°22 | 9°12 | 29°13 | 2°25 | 14°D52 | 16° 4 | 0요 4 | 12°12 | W 6 |
| T 7 | 21 3 0 | 14°34'03 | 0 8 55 | 28°32 | 2°17 | 24°49 | 0°57 | 5°18 | 9°10 | 29°12 | 2°26 | 14°53 | 16° 1 | 0°11 | 12°10 | T 7 |
| F 8 | 21 6 57 | 15°31'39 | 14°52 | 28°46 | 3°24 | 24°58 | 1°10 | 5°13 | 9°8 | 29°10 | 2°28 | 14°R53 | 15°58 | 0°17 | 12° 8 | F 8 |
| S 9 | 21 10 53 | 16°29'17 | 28°34 | 29° 8 | 4°31 | 25° 9 | 1°23 | 5° 9 | 9° 6 | 29° 9 | 2°29 | 14°52 | 15°54 | 0°24 | 12° 5 | S 9 |
| S 10 | 21 14 50 | 17°26'56 | 11 Ⅱ 59 | 29°37 | 5°39 | 25°20 | 1°36 | 5° 5 | 9° 3 | 29° 7 | 2°30 | 14°50 | 15°51 | 0°31 | 12° 3 | S 10 |
| M11 | 21 18 46 | 18°24'36 | 25°10 | 0 Ω 13 | 6°46 | 25°32 | 1°49 | 5° 1 | 9° 1 | 29° 6 | 2°31 | 14°45 | 15°48 | 0°37 | 12° 0 | M11 |
| T 12 | 21 22 43 | 19°22'19 | 8 9 5 7 | 0°57 | 7°54 | 25°44 | 2° 2 | 4°57 | 8°59 | 29° 4 | 2°32 | 14°38 | 15°45 | 0°44 | 11°57 | T 12 |
| W13 | 21 26 40 | 20°20'02 | 20°51 | 1°47 | 9° 1 | 25°57 | 2°15 | 4°52 | 8°57 | 29° 3 | 2°33 | 14°29 | 15°42 | 0°51 | 11°55 | W13 |
| T 14 | 21 30 36 | 21°17'47 | 3 Ω 24 | 2°44 | 10° 9 | 26°11 | 2°28 | 4°48 | 8°55 | 29° 1 | 2°34 | 14°19 | 15°39 | 0°57 | 11°52 | T 14 |
| F 15 | 21 34 33 | 22°15'34 | 15°45 | 3°47 | 11°17 | 26°26 | 2°41 | 4°43 | 8°52 | 29° 0 | 2°35 | 14°10 | 15°35 | 1° 4 | 11°49 | F 15 |
| S 16 | 21 38 29 | 23°13'22 | 27°56 | 4°57 | 12°26 | 26°41 | 2°54 | 4°39 | 8°50 | 28°58 | 2°36 | 14° 1 | 15°32 | 1°10 | 11°47 | S 16 |
| S 17 | 21 42 26 | 24°11'11 | 9 m 57 | 6°12 | 13°34 | 26°58 | 3° 7 | 4°35 | 8°48 | 28°57 | 2°37 | 13°54 | 15°29 | 1°17 | 11°44 | S 17 |
| M18 | 21 46 22 | 25° 9'02 | 21°51 | 7°34 | 14°42 | 27°14 | 3°20 | 4°30 | 8°45 | 28°55 | 2°38 | 13°50 | 15°26 | 1°24 | 11°41 | M18 |
| T 19 | 21 50 19 | 26° 6'54 | 3 ॒ 39 | 9° 0 | 15°51 | 27°32 | 3°33 | 4°26 | 8°43 | 28°54 | 2°39 | 13°47 | 15°23 | 1°30 | 11°39 | T 19 |
| W20 | 21 54 15 | 27° 4'47 | 15°25 | 10°32 | 17° 0 | 27°50 | 3°45 | 4°21 | 8°41 | 28°53 | 2°40 | 13°D46 | 15°19 | 1°37 | 11°36 | W20 |
| T 21 | 21 58 12 | 28° 2'42 | 27°13 | 12° 8 | 18° 9 | 28° 8 | 3°58 | 4°17 | 8°38 | 28°51 | 2°41 | 13°47 | 15°16 | 1°44 | 11°33 | T 21 |
| F 22 | 22 2 9 | 29° 0'38 | 9 ™ 7 | 13°48 | 19°18 | 28°27 | 4°11 | 4°12 | 8°36 | 28°50 | 2°42 | 13°49 | 15°13 | 1°50 | 11°30 | F 22 |
| S 23 | 22 6 5 | 29°58'35 | 21°11 | 15°32 | 20°27 | 28°47 | 4°23 | 4° 8 | 8°34 | 28°49 | 2°43 | 13°50 | 15°10 | 1°57 | 11°28 | S 23 |
| S 24 | 22 10 2 | 0 m/ 56'34 | 3 ₹ 32 | 17°18 | 21°36 | 29° 8 | 4°36 | 4° 3 | 8°31 | 28°47 | 2°44 | 13°R50 | 15° 7 | 2° 4 | 11°25 | S 24 |
| M25 | 22 13 58 | 1°54'34 | 16°14 | 19° 7 | 22°45 | 29°29 | 4°49 | 3°58 | 8°29 | 28°46 | 2°44 | 13°49 | 15° 4 | 2°10 | 11°22 | M25 |
| T 26 | 22 17 55 | 2°52'36 | 29°20 | 20°59 | 23°55 | 29°50 | 5° 1 | 3°54 | 8°27 | 28°45 | 2°45 | 13°46 | 15° 0 | 2°17 | 11°19 | T 26 |
| W27 | 22 21 51 | 3°50'39 | 12 る 55 | 22°52 | 25° 4 | 0 궁 12 | 5°13 | 3°49 | 8°24 | 28°43 | 2°46 | 13°42 | 14°57 | 2°24 | 11°16 | W27 |
| T 28 | 22 25 48 | 4°48'43 | 26°58 | 24°46 | 26°14 | 0°35 | 5°26 | 3°45 | 8°22 | 28°42 | 2°47 | 13°37 | 14°54 | 2°30 | 11°13 | T 28 |
| F 29 | 22 29 44 | 5°46'49 | 11≈27 | 26°42 | 27°24 | 0°58 | 5°38 | 3°40 | 8°19 | 28°41 | 2°48 | 13°31 | 14°51 | 2°37 | 11°11 | F 29 |
| S 30 | 22 33 41 | 6°44'56 | 26°17 | 28°38 | 28°34 | 1°22 | 5°51 | 3°36 | 8°17 | 28°40 | 2°49 | 13°25 | 14°48 | 2°44 | 11° 8 | S 30 |
| S 31 | 22 37 38 | 7 m 43'05 | 11 米 20 | 0 m 34 | 299544 | 1 石 46 | 6 N 3 | 3 ∺ 31 | 8 ¥ 15 | 28 궁 39 | 29549 | 13 Y 21 | 14 Y 45 | 2 ₽ 50 | 11 ∺ 5 | S 31 |

Delta T = 29.37 sec

SEPTEMBER 1670 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | φ | δ | 4 | ħ |)Å(| ¥ | В | ₽. | ಬ | Ç | k ₀ | Day |
|------|----------|-------------------|----------------|----------------|---------------|-----------------|----------------|---------------|---------------|----------------|-------|----------------|----------------|---------------|----------------|------|
| M 1 | 22 41 34 | 8 m /41'16 | 26) 28 | 2 Mp 31 | 0 Ω 54 | 2 ට 10 | 6 Ω 15 | 3°R27 | 8°R12 | 28°R37 | 2950 | 13°R19 | 14 Y 41 | 2 ≏ 57 | 11°R 2 | M 1 |
| T 2 | 22 45 31 | 9°39'28 | 11 Y 30 | 4°27 | 2° 4 | 2°35 | 6°27 | 3 ∺ 22 | 8) 10 | 28 궁 36 | 2°51 | 13°D18 | 14°38 | 3° 3 | 10 米 59 | T 2 |
| W 3 | 22 49 27 | 10°37'42 | 26°19 | 6°23 | 3°15 | 3° 1 | 6°39 | 3°17 | 8° 7 | 28°35 | 2°51 | 13 Y 18 | 14°35 | 3°10 | 10°56 | W 3 |
| T 4 | 22 53 24 | 11°35'59 | 10850 | 8°18 | 4°25 | 3°27 | 6°51 | 3°13 | 8° 5 | 28°34 | 2°52 | 13°19 | 14°32 | 3°17 | 10°53 | T 4 |
| F 5 | 22 57 20 | 12°34'18 | 24°58 | 10°13 | 5°36 | 3°53 | 7° 3 | 3° 8 | 8° 3 | 28°33 | 2°53 | 13°21 | 14°29 | 3°23 | 10°50 | F 5 |
| S 6 | 23 1 17 | 13°32'38 | 8 Ⅱ 43 | 12° 7 | 6°47 | 4°20 | 7°15 | 3° 4 | 8° 0 | 28°32 | 2°53 | 13°R22 | 14°25 | 3°30 | 10°48 | S 6 |
| S 7 | 23 5 13 | 14°31'01 | 22° 7 | 14° 1 | 7°58 | 4°47 | 7°27 | 3° 0 | 7°58 | 28°31 | 2°54 | 13°22 | 14°22 | 3°37 | 10°45 | S 7 |
| M 8 | 23 9 10 | 15°29'27 | 59910 | 15°53 | 9° 9 | 5°15 | 7°39 | 2°55 | 7°56 | 28°30 | 2°54 | 13°20 | 14°19 | 3°43 | 10°42 | M 8 |
| T 9 | 23 13 7 | 16°27'54 | 17°55 | 17°45 | 10°20 | 5°43 | 7°50 | 2°51 | 7°53 | 28°29 | 2°55 | 13°18 | 14°16 | 3°50 | 10°39 | T 9 |
| W10 | 23 17 3 | 17°26'23 | 0 Ω 26 | 19°35 | 11°31 | 6°12 | 8° 2 | 2°46 | 7°51 | 28°28 | 2°56 | 13°14 | 14°13 | 3°57 | 10°36 | W10 |
| T 11 | 23 21 0 | 18°24'55 | 12°44 | 21°25 | 12°42 | 6°41 | 8°14 | 2°42 | 7°48 | 28°27 | 2°56 | 13°10 | 14°10 | 4° 3 | 10°33 | T 11 |
| F 12 | 23 24 56 | 19°23'28 | 24°51 | 23°13 | 13°53 | 7°10 | 8°25 | 2°38 | 7°46 | 28°26 | 2°57 | 13° 6 | 14° 6 | 4°10 | 10°30 | F 12 |
| S 13 | 23 28 53 | 20°22'04 | 6 m 51 | 25° 0 | 15° 5 | 7°40 | 8°37 | 2°34 | 7°44 | 28°25 | 2°57 | 13° 2 | 14° 3 | 4°17 | 10°28 | S 13 |
| S 14 | 23 32 49 | 21°20'41 | 18°44 | 26°47 | 16°16 | 8°10 | 8°48 | 2°29 | 7°41 | 28°25 | 2°57 | 12°59 | 14° 0 | 4°23 | 10°25 | S 14 |
| M15 | 23 36 46 | 22°19'20 | 0 亞 33 | 28°32 | 17°28 | 8°40 | 8°59 | 2°25 | 7°39 | 28°24 | 2°58 | 12°58 | 13°57 | 4°30 | 10°22 | M15 |
| T 16 | 23 40 42 | 23°18'02 | 12°19 | 0 ჲ 16 | 18°40 | 9°11 | 9°11 | 2°21 | 7°37 | 28°23 | 2°58 | 12°D57 | 13°54 | 4°37 | 10°19 | T 16 |
| W17 | 23 44 39 | 24°16'45 | 24° 6 | 2° 0 | 19°52 | 9°42 | 9°22 | 2°17 | 7°35 | 28°22 | 2°59 | 12°58 | 13°51 | 4°43 | 10°16 | W17 |
| T 18 | 23 48 36 | 25°15'30 | 5 ™ 57 | 3°42 | 21° 3 | 10°13 | 9°33 | 2°13 | 7°32 | 28°22 | 2°59 | 12°59 | 13°47 | 4°50 | 10°14 | T 18 |
| F 19 | 23 52 32 | 26°14'17 | 17°53 | 5°23 | 22°15 | 10°45 | 9°44 | 2° 9 | 7°30 | 28°21 | 2°59 | 13° 0 | 13°44 | 4°56 | 10°11 | F 19 |
| S 20 | 23 56 29 | 27°13'05 | 29°59 | 7° 4 | 23°27 | 11°17 | 9°55 | 2° 5 | 7°28 | 28°20 | 3° 0 | 13° 1 | 13°41 | 5° 3 | 10° 8 | S 20 |
| S 21 | 0 0 25 | 28°11'56 | 12 × 20 | 8°43 | 24°40 | 11°50 | 10° 6 | 2° 1 | 7°26 | 28°20 | 3° 0 | 13° 3 | 13°38 | 5°10 | 10° 5 | S 21 |
| M22 | 0 4 22 | 29°10'48 | 24°59 | 10°22 | 25°52 | 12°22 | 10°16 | 1°57 | 7°24 | 28°19 | 3° 0 | 13°R 3 | 13°35 | 5°16 | 10° 3 | M22 |
| T 23 | 0 8 18 | 0 요 9'42 | 8ට 1 | 11°59 | 27° 4 | 12°55 | 10°27 | 1°54 | 7°21 | 28°18 | 3° 0 | 13° 3 | 13°31 | 5°23 | 10° 0 | T 23 |
| W24 | 0 12 15 | 1° 8'38 | 21°27 | 13°36 | 28°17 | 13°29 | 10°38 | 1°50 | 7°19 | 28°18 | 3° 1 | 13° 2 | 13°28 | 5°30 | 9°57 | W24 |
| T 25 | 0 16 11 | 2° 7'36 | 5≈21 | 15°12 | 29°29 | 14° 2 | 10°48 | 1°46 | 7°17 | 28°17 | 3° 1 | 13° 1 | 13°25 | 5°36 | 9°55 | T 25 |
| F 26 | 0 20 8 | 3° 6'35 | 19°42 | 16°47 | 0 m 42 | 14°36 | 10°58 | 1°43 | 7°15 | 28°17 | 3° 1 | 13° 0 | 13°22 | 5°43 | 9°52 | F 26 |
| S 27 | 0 24 5 | 4° 5'36 | 4) €26 | 18°21 | 1°54 | 15°10 | 11° 9 | 1°39 | 7°13 | 28°16 | 3° 1 | 12°59 | 13°19 | 5°50 | 9°50 | S 27 |
| S 28 | 0 28 1 | 5° 4'39 | 19°29 | 19°54 | 3° 7 | 15°45 | 11°19 | 1°36 | 7°11 | 28°16 | 3° 1 | 12°58 | 13°16 | 5°56 | 9°47 | S 28 |
| M29 | 0 31 58 | 6° 3'43 | 4 Υ 42 | 21°27 | 4°20 | 16°19 | 11°29 | 1°32 | 7° 9 | 28°16 | 3° 1 | 12°58 | 13°12 | 6° 3 | 9°45 | M29 |
| T 30 | 0 35 54 | 7 ♀ 2'50 | 19 Ƴ 54 | 22 ≏ 58 | 5 m 33 | 16 පි 54 | 11 Ω 39 | 1 ∺ 29 | 7 ∺ 7 | 28 ට 15 | 395 2 | 12°D58 | 13 Y 9 | 6 ₽ 10 | 9) €42 | T 30 |

Delta T = 29.32 sec

Greg. Calendar

OCTOBER 1670 GC 00:00 UT

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|------|---------|------------------|----------------|----------------|----------------|----------------|-----------------|---------------|---------------|----------------|--------------|----------------|----------------|---------------|-----------------|------|
| W 1 | 0 39 51 | 8 ₾ 1'59 | 4 8 58 | 24 ≏ 29 | 6 m 45 | 17 る 29 | 11 .0 49 | 1°R26 | 7°R 5 | 28°R15 | 3 9 2 | 12 Y 58 | 13 ° 6 | 6 ₽ 16 | 9°R40 | W 1 |
| T 2 | 0 43 47 | 9° 1'10 | 19°44 | 25°59 | 7°58 | 18° 4 | 11°59 | 1 ∺ 23 | 7 ∺ 3 | 28 궁 15 | 3° 2 | 12°58 | 13° 3 | 6°23 | 9 米 37 | T 2 |
| F 3 | 0 47 44 | 10° 0'24 | 4 II 7 | 27°28 | 9°12 | 18°40 | 12° 9 | 1°20 | 7° 1 | 28°15 | 3°R 2 | 12°59 | 13° 0 | 6°30 | 9°35 | F 3 |
| S 4 | 0 51 40 | 10°59'40 | 18° 4 | 28°57 | 10°25 | 19°16 | 12°18 | 1°17 | 6°59 | 28°14 | 3° 2 | 12°59 | 12°56 | 6°36 | 9°33 | S 4 |
| S 5 | 0 55 37 | 11°58'58 | 19534 | 0 M 24 | 11°38 | 19°52 | 12°28 | 1°14 | 6°57 | 28°14 | 3° 2 | 12°59 | 12°53 | 6°43 | 9°30 | S 5 |
| M 6 | 0 59 34 | 12°58'19 | 14°38 | 1°51 | 12°51 | 20°28 | 12°37 | 1°11 | 6°56 | 28°14 | 3° 2 | 12°59 | 12°50 | 6°49 | 9°28 | M 6 |
| T 7 | 1 3 30 | 13°57'42 | 27°21 | 3°17 | 14° 5 | 21° 4 | 12°46 | 1°8 | 6°54 | 28°14 | 3° 2 | 12°59 | 12°47 | 6°56 | 9°26 | T 7 |
| W 8 | 1 7 27 | 14°57'07 | 9 Ω 45 | 4°42 | 15°18 | 21°41 | 12°55 | 1° 6 | 6°52 | 28°14 | 3° 1 | 12°59 | 12°44 | 7° 3 | 9°24 | W 8 |
| T 9 | 1 11 23 | 15°56'35 | 21°55 | 6° 6 | 16°32 | 22°18 | 13° 5 | 1° 3 | 6°50 | 28°14 | 3° 1 | 12°59 | 12°41 | 7° 9 | 9°21 | T 9 |
| F 10 | 1 15 20 | 16°56'04 | 3 m 54 | 7°29 | 17°45 | 22°55 | 13°13 | 1° 1 | 6°49 | 28°D14 | 3° 1 | 13° 0 | 12°37 | 7°16 | 9°19 | F 10 |
| S 11 | 1 19 16 | 17°55'36 | 15°46 | 8°52 | 18°59 | 23°32 | 13°22 | 0°58 | 6°47 | 28°14 | 3° 1 | 13° 0 | 12°34 | 7°23 | 9°17 | S 11 |
| S 12 | 1 23 13 | 18°55'10 | 27°34 | 10°13 | 20°12 | 24° 9 | 13°31 | 0°56 | 6°45 | 28°14 | 3° 1 | 13° 1 | 12°31 | 7°29 | 9°15 | S 12 |
| M13 | 1 27 9 | 19°54'46 | 9 ≏ 21 | 11°33 | 21°26 | 24°47 | 13°40 | 0°54 | 6°44 | 28°14 | 3° 1 | 13°R 1 | 12°28 | 7°36 | 9°13 | M13 |
| T 14 | 131 6 | 20°54'24 | 21° 9 | 12°52 | 22°40 | 25°25 | 13°48 | 0°51 | 6°42 | 28°14 | 3° 0 | 13° 1 | 12°25 | 7°43 | 9°11 | T 14 |
| W15 | 1 35 2 | 21°54'05 | 3 M 1 | 14°10 | 23°54 | 26° 3 | 13°56 | 0°49 | 6°41 | 28°14 | 3° 0 | 13° 0 | 12°22 | 7°49 | 9° 9 | W15 |
| T 16 | 1 38 59 | 22°53'47 | 14°58 | 15°27 | 25° 8 | 26°41 | 14° 5 | 0°48 | 6°39 | 28°14 | 3° 0 | 12°59 | 12°18 | 7°56 | 9°8 | T 16 |
| F 17 | 1 42 56 | 23°53'31 | 27° 3 | 16°42 | 26°22 | 27°19 | 14°13 | 0°46 | 6°38 | 28°14 | 2°59 | 12°58 | 12°15 | 8° 3 | 9° 6 | F 17 |
| S 18 | 1 46 52 | 24°53'17 | 9 ∡ 18 | 17°56 | 27°36 | 27°58 | 14°21 | 0°44 | 6°37 | 28°15 | 2°59 | 12°56 | 12°12 | 8° 9 | 9° 4 | S 18 |
| S 19 | 1 50 49 | 25°53'05 | 21°46 | 19°8 | 28°50 | 28°36 | 14°29 | 0°42 | 6°35 | 28°15 | 2°59 | 12°55 | 12° 9 | 8°16 | 9° 2 | S 19 |
| M20 | 1 54 45 | 26°52'55 | 4 る 28 | 20°18 | 0요 4 | 29°15 | 14°36 | 0°41 | 6°34 | 28°15 | 2°58 | 12°53 | 12° 6 | 8°22 | 9° 1 | M20 |
| T 21 | 1 58 42 | 27°52'47 | 17°28 | 21°26 | 1°18 | 29°54 | 14°44 | 0°39 | 6°33 | 28°16 | 2°58 | 12°52 | 12° 2 | 8°29 | 8°59 | T 21 |
| W22 | 2 2 38 | 28°52'40 | 0≈48 | 22°32 | 2°32 | 0≈33 | 14°51 | 0°38 | 6°32 | 28°16 | 2°58 | 12°D52 | 11°59 | 8°36 | 8°57 | W22 |
| T 23 | 2 6 3 5 | 29°52'34 | 14°30 | 23°36 | 3°46 | 1°12 | 14°58 | 0°37 | 6°31 | 28°17 | 2°57 | 12°52 | 11°56 | 8°42 | 8°56 | T 23 |
| F 24 | 2 10 31 | 0M52'31 | 28°36 | 24°38 | 5° 1 | 1°52 | 15° 6 | 0°35 | 6°29 | 28°17 | 2°57 | 12°53 | 11°53 | 8°49 | 8°54 | F 24 |
| S 25 | 2 14 28 | 1°52'29 | 13 米 3 | 25°36 | 6°15 | 2°31 | 15°13 | 0°34 | 6°28 | 28°17 | 2°56 | 12°55 | 11°50 | 8°56 | 8°53 | S 25 |
| S 26 | 2 18 25 | 2°52'28 | 27°49 | 26°31 | 7°29 | 3°11 | 15°19 | 0°33 | 6°27 | 28°18 | 2°56 | 12°56 | 11°47 | 9° 2 | 8°51 | S 26 |
| M27 | 2 22 21 | 3°52'29 | 12 Y 49 | 27°22 | 8°44 | 3°50 | 15°26 | 0°33 | 6°26 | 28°19 | 2°55 | 12°R56 | 11°43 | 9° 9 | 8°50 | M27 |
| T 28 | 2 26 18 | 4°52'32 | 27°56 | 28°10 | 9°58 | 4°30 | 15°33 | 0°32 | 6°25 | 28°19 | 2°55 | 12°56 | 11°40 | 9°16 | 8°49 | T 28 |
| W29 | 2 30 14 | 5°52'37 | 12 8 59 | 28°52 | 11°13 | 5°10 | 15°39 | 0°31 | 6°25 | 28°20 | 2°54 | 12°54 | 11°37 | 9°22 | 8°48 | W29 |
| T 30 | 2 34 11 | 6°52'44 | 27°51 | 29°30 | 12°27 | 5°50 | 15°45 | 0°31 | 6°24 | 28°20 | 2°53 | 12°51 | 11°34 | 9°29 | 8°46 | T 30 |
| F 31 | 2 38 7 | 7 M 52'53 | 12 Ⅱ 22 | 0 ∡ 3 | 13 ≏ 42 | 6≈30 | 15 Ω 51 | 0 ∺ 30 | 6 ∺ 23 | 28 중 21 | 2953 | 12 Y 48 | 11 Y 31 | 9 ჲ 36 | 8) (45 | F 31 |

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NOVEMBER 1670 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| ¥ | Р | ₽. | v | Ç | ķ | Day |
|------|---------|-------------------|-----------------|----------------|----------------|-------|----------------|---------------|---------------|----------------|-------|----------------|----------------|----------------|----------------|------|
| S 1 | 2 42 4 | 8 M .53'03 | 26Ⅱ29 | 0 才 29 | 14 ≏ 56 | 7≈11 | 15 Ω 57 | 0°R30 | 6°R22 | 28 중 22 | 2°R52 | 12°R44 | 11 Y 28 | 9 ≙ 42 | 8°R44 | S 1 |
| S 2 | 2 46 0 | 9°53'16 | 1095 8 | 0°48 | 16°11 | 7°51 | 16° 3 | 0 ∺ 30 | 6 ¥ 22 | 28°23 | 2952 | 12 Y 40 | 11°24 | 9°49 | 8) (43 | S 2 |
| M 3 | 2 49 57 | 10°53'31 | 23°20 | 1° 0 | 17°26 | 8°31 | 16° 9 | 0°30 | 6°21 | 28°23 | 2°51 | 12°38 | 11°21 | 9°56 | 8°42 | M 3 |
| T 4 | 2 53 54 | 11°53'48 | 6 N 6 | 1°R 3 | 18°40 | 9°12 | 16°14 | 0°D30 | 6°20 | 28°24 | 2°50 | 12°37 | 11°18 | 10° 2 | 8°41 | T 4 |
| W 5 | 2 57 50 | 12°54'07 | 18°31 | 0°58 | 19°55 | 9°53 | 16°20 | 0°30 | 6°20 | 28°25 | 2°49 | 12°D37 | 11°15 | 10° 9 | 8°41 | W 5 |
| T 6 | 3 1 47 | 13°54'28 | 0 m y39 | 0°43 | 21°10 | 10°33 | 16°25 | 0°30 | 6°19 | 28°26 | 2°49 | 12°38 | 11°12 | 10°15 | 8°40 | T 6 |
| F 7 | 3 5 43 | 14°54'50 | 12°34 | 0°19 | 22°25 | 11°14 | 16°30 | 0°30 | 6°19 | 28°27 | 2°48 | 12°39 | 11° 8 | 10°22 | 8°39 | F 7 |
| S 8 | 3 9 40 | 15°55'15 | 24°23 | 29 M 44 | 23°40 | 11°55 | 16°35 | 0°30 | 6°18 | 28°28 | 2°47 | 12°41 | 11° 5 | 10°29 | 8°38 | S 8 |
| S 9 | 3 13 36 | 16°55'41 | 6 ₽ 9 | 28°59 | 24°54 | 12°36 | 16°39 | 0°31 | 6°18 | 28°29 | 2°46 | 12°42 | 11° 2 | 10°35 | 8°38 | S 9 |
| M10 | 3 17 33 | 17°56'10 | 17°57 | 28° 4 | 26° 9 | 13°17 | 16°44 | 0°32 | 6°18 | 28°30 | 2°46 | 12°R43 | 10°59 | 10°42 | 8°37 | M10 |
| T 11 | 3 21 29 | 18°56'40 | 29°50 | 27° 1 | 27°24 | 13°58 | 16°48 | 0°32 | 6°18 | 28°31 | 2°45 | 12°41 | 10°56 | 10°49 | 8°37 | T 11 |
| W12 | 3 25 26 | 19°57'11 | 11 M .49 | 25°50 | 28°39 | 14°40 | 16°52 | 0°33 | 6°17 | 28°32 | 2°44 | 12°37 | 10°53 | 10°55 | 8°36 | W12 |
| T 13 | 3 29 23 | 20°57'45 | 23°58 | 24°33 | 29°54 | 15°21 | 16°56 | 0°34 | 6°17 | 28°33 | 2°43 | 12°32 | 10°49 | 11° 2 | 8°36 | T 13 |
| F 14 | 3 33 19 | 21°58'20 | 6 ₹ 18 | 23°12 | 1 m 9 | 16° 3 | 17° 0 | 0°35 | 6°17 | 28°34 | 2°42 | 12°25 | 10°46 | 11° 9 | 8°36 | F 14 |
| S 15 | 3 37 16 | 22°58'56 | 18°49 | 21°51 | 2°24 | 16°44 | 17° 3 | 0°36 | 6°D17 | 28°35 | 2°41 | 12°18 | 10°43 | 11°15 | 8°35 | S 15 |
| S 16 | 3 41 12 | 23°59'34 | 1 る 32 | 20°31 | 3°39 | 17°26 | 17° 7 | 0°37 | 6°17 | 28°37 | 2°41 | 12°10 | 10°40 | 11°22 | 8°35 | S 16 |
| M17 | 3 45 9 | 25° 0'13 | 14°28 | 19°16 | 4°55 | 18° 7 | 17°10 | 0°39 | 6°17 | 28°38 | 2°40 | 12° 3 | 10°37 | 11°29 | 8°35 | M17 |
| T 18 | 3 49 5 | 26° 0'53 | 27°36 | 18° 8 | 6°10 | 18°49 | 17°13 | 0°40 | 6°17 | 28°39 | 2°39 | 11°58 | 10°34 | 11°35 | 8°35 | T 18 |
| W19 | 3 53 2 | 27° 1'35 | 10≈59 | 17° 8 | 7°25 | 19°31 | 17°16 | 0°42 | 6°17 | 28°40 | 2°38 | 11°55 | 10°30 | 11°42 | 8°D35 | W19 |
| T 20 | 3 56 59 | 28° 2'17 | 24°37 | 16°19 | 8°40 | 20°13 | 17°19 | 0°43 | 6°18 | 28°42 | 2°37 | 11°D53 | 10°27 | 11°48 | 8°35 | T 20 |
| F 21 | 4 0 55 | 29° 3'01 | 8 ∺ 30 | 15°40 | 9°55 | 20°55 | 17°21 | 0°45 | 6°18 | 28°43 | 2°36 | 11°54 | 10°24 | 11°55 | 8°35 | F 21 |
| S 22 | 4 4 52 | 0 ≯ 3'45 | 22°39 | 15°14 | 11°10 | 21°37 | 17°23 | 0°47 | 6°18 | 28°44 | 2°35 | 11°55 | 10°21 | 12° 2 | 8°35 | S 22 |
| S 23 | 4 8 48 | 1° 4'31 | 7 ℃ 3 | 14°58 | 12°25 | 22°19 | 17°25 | 0°49 | 6°19 | 28°46 | 2°34 | 11°R56 | 10°18 | 12° 8 | 8°35 | S 23 |
| M24 | 4 12 45 | 2° 5'17 | 21°39 | 14°D54 | 13°41 | 23° 1 | 17°27 | 0°51 | 6°19 | 28°47 | 2°33 | 11°55 | 10°14 | 12°15 | 8°36 | M24 |
| T 25 | 4 16 41 | 3° 6'05 | 6 8 23 | 15° 1 | 14°56 | 23°43 | 17°29 | 0°53 | 6°20 | 28°49 | 2°32 | 11°53 | 10°11 | 12°22 | 8°36 | T 25 |
| W26 | 4 20 38 | 4° 6'53 | 21° 9 | 15°18 | 16°11 | 24°25 | 17°31 | 0°55 | 6°20 | 28°50 | 2°31 | 11°48 | 10° 8 | 12°28 | 8°36 | W26 |
| T 27 | 4 24 34 | 5° 7'43 | 5∏49 | 15°43 | 17°26 | 25° 7 | 17°32 | 0°58 | 6°21 | 28°52 | 2°30 | 11°41 | 10° 5 | 12°35 | 8°37 | T 27 |
| F 28 | 4 28 31 | 6° 8'34 | 20°16 | 16°17 | 18°42 | 25°49 | 17°33 | 1° 0 | 6°21 | 28°53 | 2°29 | 11°32 | 10° 2 | 12°42 | 8°37 | F 28 |
| S 29 | 4 32 28 | 7° 9'26 | 49922 | 16°58 | 19°57 | 26°32 | 17°34 | 1° 3 | 6°22 | 28°55 | 2°27 | 11°23 | 9°59 | 12°48 | 8°38 | S 29 |
| S 30 | 4 36 24 | 8 ∡ 10′20 | 1895 4 | 17 M 46 | 21 M 12 | 27≈14 | 17 Ω 35 | 1 ∺ 6 | 6 ∺ 23 | 28 궁 56 | 29526 | 11 Y 14 | 9 Y 55 | 12 ≏ 55 | 8 ∺ 39 | S 30 |

Delta T = 29.21 sec

Greg. Calendar

| DECEMBER 1670 GC | 00:00 UT |
|------------------|----------|
| DECEMBER 10/0 ac | 00.00 UI |

| Day | Sid.t | 0 |) | Σ + | Q | ♂ | 4 | ħ |)f(| ¥ | Р | R | ී | Ç | ۰, | Day |
|--------------|--------------------|----------------------|-------------------------|------------------------|-------------------------|-----------------------|-----------------|---------------|---------------|----------------|--------------|-----------------|---------------|----------------|---------------|--------------|
| M 1 | 4 40 21 | 9 ,7 11'14 | 1 \$\Omega 20\$ | 18 M .39 | 22 M 27 | 27≈56 | 17 Ω 36 | 1 ∺ 8 | 6 ¥ 23 | 28 궁 58 | 2°R25 | 11°R 6 | 9 Υ 52 | 13 <u>₽</u> 2 | 8 ∺ 39 | M 1 |
| T 2 | 4 44 17 | 10°12'10 | 14°11 | 19°37 | 23°43 | 28°39 | 17°36 | 1°11 | 6°24 | 28°59 | 29524 | 11 ° 0 | 9°49 | 13° 8 | 8°40 | T 2 |
| W 3 T 4 | 4 48 14 4 52 10 | 11°13'07 12°14'05 | 26°39 8 m 49 | 20°39 21°46 | 24°58 26°13 | 29°21 0 ₩ 3 | 17°R36 17°36 | 1°14 1°17 | 6°25 6°26 | 29° 1 29° 3 | 2°23 2°22 | 10°57 10°D55 | 9°46 9°43 | 13°15 13°22 | 8°41 8°42 | W 3 T 4 |
| F 5 | 4 56 7 | 12 14 03 13°15'04 | 20°45 | 21°46 22°55 | 20°13 | 0°46 | 17°36 | 1°20 | 6°27 | 29° 5 | 2°21 | 10°56 | 9°40 | 13°28 | 8°43 | F 5 |
| S 6 | 5 0 3 | 14°16'05 | 2 △ 34 | 24° 8 | 28°44 | 1°28 | 17°35 | 1°23 | 6°28 | 29° 6 | 2°20 | 10°56 | 9°36 | 13°35 | 8°43 | S 6 |
| S 7 | 5 4 0 | 15°17'06 | 14°21 | 25°23 | 29°59 | 2°11 | 17°35 | 1°27 | 6°29 | 29° 8 | 2°19 | 10°R56 | 9°33 | 13°41 | 8°45 | S 7 |
| M 8 | 5 7 57 | 16°18'09 | 26°10 | 26°40 | 1 才 15 | 2°54 | 17°34 | 1°30 | 6°30 | 29°10 | 2°17 | 10°55 | 9°30 | 13°48 | 8°46 | M 8 |
| T 9 | 5 11 53 | 17°19'12 | 8 M 7 | 27°59 | 2°30 | 3°36 | 17°33 | 1°34 | 6°31 | 29°12 | 2°16 | 10°51 | 9°27 | 13°55 | 8°47 | T 9 |
| W10 | 5 15 50 | 18°20'17 | 20°15 | 29°19 | 3°46 5° 1 | 4°19 | 17°32 | 1°37 | 6°33 | 29°13 29°15 | 2°15 | 10°45 | 9°24 | 14° 1 | 8°48 | W10 |
| T 11 F 12 | 5 19 46 5 23 43 | 19°21'22 20°22'29 | 2 ₹ 36 15°12 | 0 ∡ 741 2° 4 | 6°17 | 5° 1 5°44 | 17°30 17°29 | 1°41 1°45 | 6°34 6°35 | 29°15 29°17 | 2°14 2°13 | 10°36 10°25 | 9°20 9°17 | 14° 8 14°15 | 8°49 8°51 | T 11 F 12 |
| S 13 | 5 27 39 | 20°22'29 21°23'36 | 28° 3 | 3°29 | 7°32 | 6°27 | 17°27 | 1°49 | 6°37 | 29°17 | 2°11 | 10°23 | 9°17 | 14°13 | 8°52 | S 13 |
| S 14 | 5 31 36 | 22°24'43 | 11 ට 8 | 4°54 | 8°47 | 7° 9 | 17°25 | 1°53 | 6°38 | 29°21 | 2°10 | 9°59 | 9°11 | 14°28 | 8°53 | S 14 |
| M15 | 5 35 32 | 23°25'51 | 24°26 | 6°20 | 10° 3 | 7°52 | 17°23 | 1°53 | 6°40 | 29°21 29°23 | 2° 10 | 9°39 9°47 | 9°11 | 14°28 14°35 | 8°55 | M15 |
| T 16 | 5 39 29 | 24°26'59 | 24° 20 7 ≈ 55 | 7°47 | 11°18 | 8°35 | 17°21 | 2° 1 | 6°41 | 29°25 | 2° 8 | 9°37 | 9° 5 | 14°41 | 8°56 | T 16 |
| W17 | 5 43 26 | 25°28'08 | 21°33 | 9°14 | 12°34 | 9°18 | 17°18 | 2° 5 | 6°43 | 29°27 | 2° 7 | 9°30 | 9° 1 | 14°48 | 8°58 | W17 |
| T 18 | 5 47 22 | 26°29'16 | 5 19 | 10°42 | 13°49 | 10° 1 | 17°15 | 2° 9 | 6°44 | 29°29 | 2° 5 | 9°26 | 8°58 | 14°55 | 9° 0 | T 18 |
| F 19 | 5 51 19 | 27°30'25 | 19°13 | 12°11 | 15° 5 | 10°43 | 17°12 | 2°14 | 6°46 | 29°31 | 2° 4 | 9°25 | 8°55 | 15° 1 | 9° 1 | F 19 |
| S 20 | 5 55 15 | 28°31'34 | 3 Υ 14 | 13°40 | 16°20 | 11°26 | 17° 9 | 2°18 | 6°48 | 29°33 | 2° 3 | 9°25 | 8°52 | 15° 8 | 9° 3 | S 20 |
| S 21 | 5 59 12 | 29°32'42 | 17°21 | 15° 9 | 17°35 | 12° 9 | 17° 6 | 2°23 | 6°49 | 29°35 | 2° 2 | 9°25 | 8°49 | 15°15 | 9° 5 | S 21 |
| M22 | 6 3 8 | 0 ට 33'51 | 1835 | 16°39 | 18°51 | 12°52 | 17° 2 | 2°27 | 6°51 | 29°37 | 2° 1 | 9°23 | 8°46 | 15°21 | 9° 7 | M22 |
| T 23 | 6 7 5 | 1°35'00 | 15°53 | 18° 9 | 20° 6 | 13°35 | 16°59 | 2°32 | 6°53 | 29°39 | 1°59 | 9°19 | 8°42 | 15°28 | 9° 9 | T 23 |
| W24 | 6 11 1 | 2°36'09 | 0 Ⅱ 11 | 19°40 | 21°22 | 14°17 | 16°55 | 2°37 | 6°55 | 29°41 | 1°58 | 9°12 | 8°39 | 15°34 | 9°11 | W24 |
| T 25 F 26 | 6 14 58 6 18 55 | 3°37'17 4°38'26 | 14°26 28°32 | 21°11 22°42 | 22°37 23°53 | 15° 0 15°43 | 16°51 16°46 | 2°41 2°46 | 6°57 6°59 | 29°43 29°45 | 1°57 1°56 | 9° 3 8°51 | 8°36 8°33 | 15°41 15°48 | 9°13 9°15 | T 25 F 26 |
| S 27 | 6 22 51 | 5°39'35 | 12923 | 24°14 | 25° 8 | 16°26 | 16°46 16°42 | 2°51 | 7° 1 | 29°43 29°47 | 1°54 | 8°38 | 8°30 | 15°54 | 9°13 | S 27 |
| | | | | | | | | | , - | | | | | | | |
| S 28 M29 | 6 26 48 6 30 44 | 6°40'44 7°41'54 | 25°55 9 Ω 7 | 25°46 27°18 | 26°24 27°39 | 17° 9 17°52 | 16°38 16°33 | 2°56 3° 2 | 7° 3 7° 5 | 29°49 29°51 | 1°53 1°52 | 8°25 8°13 | 8°26 8°23 | 16° 1 16° 8 | 9°19 9°21 | S 28 M29 |
| T 30 | 6 34 41 | 8°43'03 | 21°56 | 27 18 28°51 | 27 39 28°54 | 17 32 18°34 | 16°28 | 3° 7 | 7° 7 | 29°54 | 1°51 | 8° 4 | 8°20 | 16°14 | 9°23 | T 30 |
| W31 | 6 38 37 | 9 ろ 44'12 | 4 Mp 24 | 28 31 0 중 24 | 28 34 0 පි 10 | 19) 17 | $16\Omega^{23}$ | 3 ∺ 12 | 7 ∺ 9 | 29 궁 56 | 1950 | 7 Υ 58 | 8 Υ 17 | 16 º 21 | 9 ¥ 26 | W31 |

Delta T = 29.16 sec

JANUARY 1671 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)f(| ħ | В | ß | Ω | Ç | ٥٨ | Day |
|------|---------|-------------------|-----------------|---------------|---------------|----------------|----------------|----------------|---------------|----------------|-------|---------------|---------------|----------------|----------------|------|
| T 1 | 6 42 34 | 10 ට 45'21 | 16 M)36 | 1 る 57 | 1 る 25 | 20 米 0 | 16°R18 | 3) (17 | 7 ∺ 11 | 29 궁 58 | 1°R48 | 7°R55 | 8 Υ 14 | 16 ≏ 28 | 9 米 28 | T 1 |
| F 2 | 6 46 31 | 11°46'31 | 28°33 | 3°31 | 2°41 | 20°43 | 16 Ω 12 | 3°23 | 7°14 | 0≈ 0 | 19547 | 7 ⋎ 53 | 8°11 | 16°34 | 9°30 | F 2 |
| S 3 | 6 50 27 | 12°47'41 | 10 ≏ 23 | 5° 6 | 3°56 | 21°26 | 16° 7 | 3°28 | 7°16 | 0° 2 | 1°46 | 7°53 | 8° 7 | 16°41 | 9°33 | S 3 |
| S 4 | 6 54 24 | 13°48'50 | 22°11 | 6°40 | 5°12 | 22° 9 | 16° 1 | 3°34 | 7°18 | 0° 4 | 1°45 | 7°53 | 8° 4 | 16°48 | 9°35 | S 4 |
| M 5 | 6 58 20 | 14°50'00 | 4 M 1 | 8°15 | 6°27 | 22°51 | 15°55 | 3°39 | 7°21 | 0° 7 | 1°44 | 7°52 | 8° 1 | 16°54 | 9°38 | M 5 |
| T 6 | 7 2 17 | 15°51'10 | 16° 0 | 9°51 | 7°43 | 23°34 | 15°49 | 3°45 | 7°23 | 0° 9 | 1°42 | 7°48 | 7°58 | 17° 1 | 9°40 | T 6 |
| W 7 | 7 6 13 | 16°52'19 | 28°12 | 11°27 | 8°58 | 24°17 | 15°43 | 3°51 | 7°26 | 0°11 | 1°41 | 7°42 | 7°55 | 17° 8 | 9°43 | W 7 |
| T 8 | 7 10 10 | 17°53'29 | 10 ∡ 141 | 13° 3 | 10°13 | 25° 0 | 15°37 | 3°57 | 7°28 | 0°13 | 1°40 | 7°33 | 7°52 | 17°14 | 9°46 | T 8 |
| F 9 | 7 14 6 | 18°54'38 | 23°30 | 14°40 | 11°29 | 25°43 | 15°31 | 4° 2 | 7°31 | 0°16 | 1°39 | 7°22 | 7°48 | 17°21 | 9°48 | F 9 |
| S 10 | 7 18 3 | 19°55'47 | 6 ප 38 | 16°17 | 12°44 | 26°25 | 15°24 | 4° 8 | 7°33 | 0°18 | 1°38 | 7° 9 | 7°45 | 17°27 | 9°51 | S 10 |
| S 11 | 7 22 0 | 20°56'56 | 20° 5 | 17°55 | 14° 0 | 27° 8 | 15°17 | 4°14 | 7°36 | 0°20 | 1°37 | 6°56 | 7°42 | 17°34 | 9°54 | S 11 |
| M12 | 7 25 56 | 21°58'04 | 3≈48 | 19°34 | 15°15 | 27°51 | 15°11 | 4°20 | 7°38 | 0°22 | 1°35 | 6°44 | 7°39 | 17°41 | 9°57 | M12 |
| T 13 | 7 29 53 | 22°59'12 | 17°44 | 21°13 | 16°31 | 28°34 | 15° 4 | 4°26 | 7°41 | 0°25 | 1°34 | 6°34 | 7°36 | 17°47 | 9°59 | T 13 |
| W14 | 7 33 49 | 24° 0'18 | 1) (48 | 22°52 | 17°46 | 29°16 | 14°57 | 4°33 | 7°44 | 0°27 | 1°33 | 6°27 | 7°32 | 17°54 | 10° 2 | W14 |
| T 15 | 7 37 46 | 25° 1'24 | 15°56 | 24°32 | 19° 1 | 29°59 | 14°50 | 4°39 | 7°46 | 0°29 | 1°32 | 6°23 | 7°29 | 18° 1 | 10° 5 | T 15 |
| F 16 | 7 41 42 | 26° 2'29 | 0 Υ 5 | 26°13 | 20°17 | 0 Υ 42 | 14°43 | 4°45 | 7°49 | 0°31 | 1°31 | 6°D21 | 7°26 | 18° 7 | 10° 8 | F 16 |
| S 17 | 7 45 39 | 27° 3'33 | 14°13 | 27°54 | 21°32 | 1°25 | 14°35 | 4°51 | 7°52 | 0°34 | 1°30 | 6°21 | 7°23 | 18°14 | 10°11 | S 17 |
| S 18 | 7 49 35 | 28° 4'36 | 28°19 | 29°36 | 22°48 | 2° 7 | 14°28 | 4°58 | 7°55 | 0°36 | 1°29 | 6°R22 | 7°20 | 18°21 | 10°14 | S 18 |
| M19 | 7 53 32 | 29° 5'38 | 12821 | 1≈18 | 24° 3 | 2°50 | 14°21 | 5° 4 | 7°58 | 0°38 | 1°28 | 6°21 | 7°17 | 18°27 | 10°17 | M19 |
| T 20 | 7 57 29 | 0≈ 6'39 | 26°20 | 3° 1 | 25°18 | 3°33 | 14°13 | 5°11 | 8° 0 | 0°40 | 1°27 | 6°18 | 7°13 | 18°34 | 10°20 | T 20 |
| W21 | 8 1 25 | 1° 7'39 | 10 Ⅱ 14 | 4°44 | 26°34 | 4°15 | 14° 5 | 5°17 | 8° 3 | 0°43 | 1°26 | 6°13 | 7°10 | 18°41 | 10°24 | W21 |
| T 22 | 8 5 22 | 2° 8'37 | 24° 1 | 6°28 | 27°49 | 4°58 | 13°58 | 5°24 | 8° 6 | 0°45 | 1°25 | 6° 4 | 7° 7 | 18°47 | 10°27 | T 22 |
| F 23 | 8 9 18 | 3° 9'35 | 7 9 39 | 8°13 | 29° 4 | 5°40 | 13°50 | 5°30 | 8° 9 | 0°47 | 1°24 | 5°54 | 7° 4 | 18°54 | 10°30 | F 23 |
| S 24 | 8 13 15 | 4°10'31 | 21° 5 | 9°58 | 0≈20 | 6°23 | 13°42 | 5°37 | 8°12 | 0°50 | 1°23 | 5°43 | 7° 1 | 19° 1 | 10°33 | S 24 |
| S 25 | 8 17 11 | 5°11'27 | 4 Ω 17 | 11°43 | 1°35 | 7° 6 | 13°35 | 5°43 | 8°15 | 0°52 | 1°22 | 5°32 | 6°58 | 19° 7 | 10°37 | S 25 |
| M26 | 8 21 8 | 6°12'21 | 17°12 | 13°29 | 2°50 | 7°48 | 13°27 | 5°50 | 8°18 | 0°54 | 1°21 | 5°22 | 6°54 | 19°14 | 10°40 | M26 |
| T 27 | 8 25 5 | 7°13'15 | 29°51 | 15°15 | 4° 6 | 8°31 | 13°19 | 5°57 | 8°21 | 0°56 | 1°20 | 5°15 | 6°51 | 19°20 | 10°43 | T 27 |
| W28 | 8 29 1 | 8°14'07 | 12 m 14 | 17° 1 | 5°21 | 9°13 | 13°11 | 6° 4 | 8°24 | 0°59 | 1°19 | 5° 9 | 6°48 | 19°27 | 10°46 | W28 |
| T 29 | 8 32 58 | 9°14'58 | 24°23 | 18°47 | 6°36 | 9°55 | 13° 3 | 6°10 | 8°27 | 1° 1 | 1°18 | 5° 6 | 6°45 | 19°34 | 10°50 | T 29 |
| F 30 | 8 36 54 | 10°15'49 | 6 ≏ 20 | 20°34 | 7°52 | 10°38 | 12°55 | 6°17 | 8°31 | 1° 3 | 1°17 | 5°D 6 | 6°42 | 19°40 | 10°53 | F 30 |
| S 31 | 8 40 51 | 11≈16'38 | 18 ≏ 10 | 22≈20 | 9≈ 7 | 11 Y 20 | 12 Ω 47 | 6 ∺ 24 | 8 ∺ 34 | 1≈ 5 | 19516 | 5 ℃ 7 | 6 Ƴ 38 | 19 ≙ 47 | 10 ∺ 57 | S 31 |

Delta T = 29.10 sec

Greg. Calendar

FEBRUARY 1671 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | φ | δ | 4 | ħ |)ţ | 卉 | Р | S. | ය | Ç | к 0 | Day |
|------|----------|-------------------|-----------------|----------------|----------------|---------------|----------------|----------------|---------------|------|-------|---------------|---------------|----------------|------------------|------|
| S 1 | 8 44 47 | 12≈17'27 | 29 ≙ 57 | 24≈ 5 | 10≈22 | 12 ° 3 | 12°R39 | 6 ∺ 31 | 8 ∺ 37 | 1≈ 8 | 1°R15 | 5 Υ 8 | 6 Υ 35 | 19 ≙ 54 | 11 米 0 | S 1 |
| M 2 | 8 48 44 | 13°18'14 | 11 M .48 | 25°50 | 11°37 | 12°45 | 12 N 31 | 6°38 | 8°40 | 1°10 | 19914 | 5°R 8 | 6°32 | 20° 0 | 11° 4 | M 2 |
| T 3 | 8 52 40 | 14°19'01 | 23°47 | 27°34 | 12°53 | 13°27 | 12°23 | 6°45 | 8°43 | 1°12 | 1°13 | 5° 8 | 6°29 | 20° 7 | 11° 7 | T 3 |
| W 4 | 8 56 37 | 15°19'46 | 5 ₹ 759 | 29°17 | 14° 8 | 14°10 | 12°15 | 6°52 | 8°46 | 1°14 | 1°12 | 5° 5 | 6°26 | 20°14 | 11°11 | W 4 |
| T 5 | 9 0 33 | 16°20'31 | 18°29 | 0 ∺ 58 | 15°23 | 14°52 | 12° 7 | 6°59 | 8°50 | 1°17 | 1°12 | 5° 1 | 6°23 | 20°20 | 11°14 | T 5 |
| F 6 | 9 4 30 | 17°21'15 | 1る22 | 2°37 | 16°38 | 15°34 | 11°59 | 7° 6 | 8°53 | 1°19 | 1°11 | 4°55 | 6°19 | 20°27 | 11°18 | F 6 |
| S 7 | 9 8 27 | 18°21'57 | 14°37 | 4°14 | 17°54 | 16°17 | 11°51 | 7°13 | 8°56 | 1°21 | 1°10 | 4°47 | 6°16 | 20°34 | 11°21 | S 7 |
| S 8 | 9 12 23 | 19°22'38 | 28°17 | 5°48 | 19° 9 | 16°59 | 11°44 | 7°20 | 8°59 | 1°23 | 1° 9 | 4°39 | 6°13 | 20°40 | 11°25 | S 8 |
| M 9 | 9 16 20 | 20°23'18 | 12≈18 | 7°18 | 20°24 | 17°41 | 11°36 | 7°27 | 9° 3 | 1°25 | 1° 9 | 4°31 | 6°10 | 20°47 | 11°29 | M 9 |
| T 10 | 9 20 16 | 21°23'56 | 26°37 | 8°44 | 21°39 | 18°23 | 11°28 | 7°34 | 9° 6 | 1°28 | 1°8 | 4°25 | 6° 7 | 20°54 | 11°32 | T 10 |
| W11 | 9 24 13 | 22°24'33 | 11 米 8 | 10° 5 | 22°54 | 19° 5 | 11°20 | 7°42 | 9° 9 | 1°30 | 1° 7 | 4°21 | 6° 4 | 21° 0 | 11°36 | W11 |
| T 12 | 9 28 9 | 23°25'08 | 25°43 | 11°20 | 24°10 | 19°48 | 11°13 | 7°49 | 9°13 | 1°32 | 1° 6 | 4°19 | 6° 0 | 21° 7 | 11°40 | T 12 |
| F 13 | 9 32 6 | 24°25'41 | 10 Υ 18 | 12°29 | 25°25 | 20°30 | 11° 5 | 7°56 | 9°16 | 1°34 | 1° 6 | 4°D19 | 5°57 | 21°14 | 11°43 | F 13 |
| S 14 | 9 36 2 | 25°26'13 | 24°47 | 13°32 | 26°40 | 21°12 | 10°57 | 8° 3 | 9°19 | 1°36 | 1° 5 | 4°20 | 5°54 | 21°20 | 11°47 | S 14 |
| S 15 | 9 39 59 | 26°26'43 | 9 8 6 | 14°26 | 27°55 | 21°54 | 10°50 | 8°10 | 9°23 | 1°38 | 1° 4 | 4°21 | 5°51 | 21°27 | 11°51 | S 15 |
| M16 | 9 43 56 | 27°27'10 | 23°13 | 15°13 | 29°10 | 22°36 | 10°43 | 8°18 | 9°26 | 1°40 | 1° 4 | 4°R22 | 5°48 | 21°33 | 11°54 | M16 |
| T 17 | 9 47 52 | 28°27'36 | 7 I I 7 | 15°50 | 0) €25 | 23°18 | 10°35 | 8°25 | 9°30 | 1°43 | 1° 3 | 4°22 | 5°44 | 21°40 | 11°58 | T 17 |
| W18 | 9 51 49 | 29°28'01 | 20°48 | 16°19 | 1°40 | 24° 0 | 10°28 | 8°32 | 9°33 | 1°45 | 1° 3 | 4°20 | 5°41 | 21°47 | 12° 2 | W18 |
| T 19 | 9 55 45 | 0) €28'23 | 49915 | 16°37 | 2°55 | 24°42 | 10°21 | 8°40 | 9°36 | 1°47 | 1° 2 | 4°16 | 5°38 | 21°53 | 12° 6 | T 19 |
| F 20 | 9 59 42 | 1°28'43 | 17°30 | 16°R46 | 4°10 | 25°24 | 10°14 | 8°47 | 9°40 | 1°49 | 1° 2 | 4°12 | 5°35 | 22° 0 | 12° 9 | F 20 |
| S 21 | 10 3 38 | 2°29'01 | 0 Ω 31 | 16°45 | 5°25 | 26° 6 | 10° 7 | 8°54 | 9°43 | 1°51 | 1° 1 | 4° 6 | 5°32 | 22° 7 | 12°13 | S 21 |
| S 22 | 10 735 | 3°29'17 | 13°19 | 16°35 | 6°40 | 26°47 | 10° 0 | 9° 2 | 9°47 | 1°53 | 1° 1 | 4° 1 | 5°29 | 22°13 | 12°17 | S 22 |
| M23 | 10 11 32 | 4°29'32 | 25°54 | 16°15 | 7°55 | 27°29 | 9°54 | 9° 9 | 9°50 | 1°55 | 1° 0 | 3°56 | 5°25 | 22°20 | 12°21 | M23 |
| T 24 | 10 15 28 | 5°29'44 | 8 m)17 | 15°46 | 9°10 | 28°11 | 9°47 | 9°16 | 9°53 | 1°57 | 1° 0 | 3°52 | 5°22 | 22°27 | 12°25 | T 24 |
| W25 | 10 19 25 | 6°29'55 | 20°29 | 15° 9 | 10°25 | 28°53 | 9°41 | 9°24 | 9°57 | 1°59 | 0°59 | 3°50 | 5°19 | 22°33 | 12°28 | W25 |
| T 26 | 10 23 21 | 7°30'04 | 2 ≏ 31 | 14°24 | 11°40 | 29°34 | 9°34 | 9°31 | 10° 0 | 2° 1 | 0°59 | 3°D49 | 5°16 | 22°40 | 12°32 | T 26 |
| F 27 | 10 27 18 | 8°30'11 | 14°25 | 13°34 | 12°55 | 0816 | 9°28 | 9°38 | 10° 4 | 2° 3 | 0°58 | 3°50 | 5°13 | 22°47 | 12°36 | F 27 |
| S 28 | 10 31 14 | 9 米 30'16 | 26 ≏ 14 | 12) 39 | 14 米 10 | 0 8 58 | 9Ω 22 | 9) (46 | 10 米 7 | 2≈ 5 | 0ഇ58 | 3 Υ 51 | 5 Υ 9 | 22 ≏ 53 | 12) (40 | S 28 |

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|------|----------|-------------------|----------------|------------------|----------------|-------|---------------|----------------|----------------|--------------|-------|---------------------------------------|---------------|----------------|------------------|------|
| S 1 | 10 35 11 | 10 ¥ 30′20 | 8 M 1 | 11°R40 | 15 ¥ 25 | 1839 | 9°R16 | 9 米 53 | 10 ∺ 11 | 2≈ 6 | 0°R58 | 3 Υ 53 | 5 Υ 6 | 23 <u>₽</u> 0 | 12) (44 | S 1 |
| M 2 | 10 39 7 | 11°30'23 | 19°52 | 10) (40 | 16°40 | 2°21 | 9 Ω 10 | 10° 0 | 10°14 | 2° 8 | 0ഇ57 | 3°55 | 5° 3 | 23° 7 | 12°47 | M 2 |
| T 3 | 10 43 4 | 12°30'23 | 1 ~ 50 | 9°39 | 17°55 | 3° 2 | 9° 5 | 10° 8 | 10°18 | 2°10 | 0°57 | 3°56 | 5° 0 | 23°13 | 12°51 | T 3 |
| W 4 | 10 47 0 | 13°30'22 | 14° 1 | 8°39 | 19° 9 | 3°44 | 8°59 | 10°15 | 10°21 | 2°12 | 0°57 | 3°R56 | 4°57 | 23°20 | 12°55 | W 4 |
| T 5 | 10 50 57 | 14°30'20 | 26°28 | 7°41 | 20°24 | 4°25 | 8°54 | 10°22 | 10°24 | 2°14 | 0°57 | 3°56 | 4°54 | 23°27 | 12°59 | T 5 |
| F 6 | 10 54 54 | 15°30'16 | 9 ට 17 | 6°46 | 21°39 | 5° 7 | 8°48 | 10°30 | 10°28 | 2°16 | 0°56 | 3°54 | 4°50 | 23°33 | 13° 3 | F 6 |
| S 7 | 10 58 50 | 16°30'10 | 22°31 | 5°56 | 22°54 | 5°48 | 8°43 | 10°37 | 10°31 | 2°17 | 0°56 | 3°52 | 4°47 | 23°40 | 13° 7 | S 7 |
| S 8 | 11 2 47 | 17°30'02 | 6≈11 | 5°11 | 24° 9 | 6°30 | 8°39 | 10°44 | 10°35 | 2°19 | 0°56 | 3°50 | 4°44 | 23°46 | 13°10 | S 8 |
| M 9 | 11 6 43 | 18°29'52 | 20°17 | 4°31 | 25°23 | 7°11 | 8°34 | 10°52 | 10°38 | 2°21 | 0°56 | 3°48 | 4°41 | 23°53 | 13°14 | M 9 |
| T 10 | 11 10 40 | 19°29'41 | 4) (46 | 3°57 | 26°38 | 7°53 | 8°29 | 10°59 | 10°42 | 2°23 | 0°56 | 3°46 | 4°38 | 24° 0 | 13°18 | T 10 |
| W11 | 11 14 36 | 20°29'28 | 19°32 | 3°29 | 27°53 | 8°34 | 8°25 | 11° 6 | 10°45 | 2°24 | 0°56 | 3°45 | 4°35 | 24° 6 | 13°22 | W11 |
| T 12 | 11 18 33 | 21°29'12 | 4 Υ30 | 3° 8 | 29° 7 | 9°15 | 8°21 | 11°14 | 10°48 | 2°26 | 0°56 | 3°D45 | 4°31 | 24°13 | 13°26 | T 12 |
| F 13 | 11 22 29 | 22°28'55 | 19°29 | 2°53 | 0 Υ 22 | 9°56 | 8°17 | 11°21 | 10°52 | 2°27 | 0°56 | 3°45 | 4°28 | 24°20 | 13°29 | F 13 |
| S 14 | 11 26 26 | 23°28'36 | 4 8 23 | 2°44 | 1°37 | 10°38 | 8°13 | 11°28 | 10°55 | 2°29 | 0°56 | 3°46 | 4°25 | 24°26 | 13°33 | S 14 |
| S 15 | 11 30 23 | 24°28'14 | 19° 4 | 2°D41 | 2°51 | 11°19 | 8° 9 | 11°35 | 10°58 | 2°31 | 0°D56 | 3°47 | 4°22 | 24°33 | 13°37 | S 15 |
| M16 | 11 34 19 | 25°27'50 | 3 Ⅱ 27 | 2°45 | 4° 6 | 12° 0 | 8° 6 | 11°43 | 11° 2 | 2°32 | 0°56 | 3°47 | 4°19 | 24°40 | 13°41 | M16 |
| T 17 | 11 38 16 | 26°27'24 | 17°29 | 2°54 | 5°20 | 12°41 | 8° 2 | 11°50 | 11° 5 | 2°34 | 0°56 | 3°48 | 4°15 | 24°46 | 13°44 | T 17 |
| W18 | 11 42 12 | 27°26'55 | 19910 | 3° 8 | 6°35 | 13°22 | 7°59 | 11°57 | 11° 9 | 2°35 | 0°56 | 3°R48 | 4°12 | 24°53 | 13°48 | W18 |
| T 19 | 11 46 9 | 28°26'24 | 14°30 | 3°28 | 7°49 | 14° 3 | 7°56 | 12° 4 | 11°12 | 2°37 | 0°56 | 3°48 | 4° 9 | 25° 0 | 13°52 | T 19 |
| F 20 | 11 50 5 | 29°25'51 | 27°31 | 3°52 | 9° 4 | 14°44 | 7°53 | 12°11 | 11°15 | 2°38 | 0°56 | 3°47 | 4° 6 | 25° 6 | 13°56 | F 20 |
| S 21 | 11 54 2 | 0 Υ 25'15 | 10 Ω 16 | 4°21 | 10°18 | 15°25 | 7°51 | 12°19 | 11°19 | 2°40 | 0°56 | 3°47 | 4° 3 | 25°13 | 13°59 | S 21 |
| S 22 | 11 57 58 | 1°24'37 | 22°45 | 4°55 | 11°33 | 16° 6 | 7°48 | 12°26 | 11°22 | 2°41 | 0°56 | 3°46 | 4° 0 | 25°20 | 14° 3 | S 22 |
| M23 | 12 1 55 | 2°23'57 | 5 Mg 3 | 5°33 | 12°47 | 16°47 | 7°46 | 12°33 | 11°25 | 2°42 | 0°56 | 3°46 | 3°56 | 25°26 | 14° 7 | M23 |
| T 24 | 12 5 52 | 3°23'15 | 17°11 | 6°14 | 14° 2 | 17°28 | 7°44 | 12°40 | 11°28 | 2°44 | 0°56 | 3°D46 | 3°53 | 25°33 | 14°10 | T 24 |
| W25 | 12 9 48 | 4°22'30 | 29°11 | 6°59 | 15°16 | 18° 9 | 7°42 | 12°47 | 11°32 | 2°45 | 0°57 | 3°R46 | 3°50 | 25°40 | 14°14 | W25 |
| T 26 | 12 13 45 | 5°21'43 | 11 ♀ 5 | 7°48 | 16°30 | 18°50 | 7°41 | 12°54 | 11°35 | 2°46 | 0°57 | 3°46 | 3°47 | 25°46 | 14°18 | T 26 |
| F 27 | 12 17 41 | 6°20'55 | 22°55 | 8°40 | 17°45 | 19°31 | 7°39 | 13° 1 | 11°38 | 2°48 | 0°57 | 3°46 | 3°44 | 25°53 | 14°21 | F 27 |
| S 28 | 12 21 38 | 7°20'04 | 4 M .43 | 9°35 | 18°59 | 20°11 | 7°38 | 13° 8 | 11°41 | 2°49 | 0°57 | 3°46 | 3°41 | 26° 0 | 14°25 | S 28 |
| S 29 | 12 25 34 | 8°19'11 | 16°33 | 10°33 | 20°13 | 20°52 | 7°37 | 13°15 | 11°44 | 2°50 | 0°58 | 3°45 | 3°37 | 26° 6 | 14°28 | S 29 |
| M30 | 12 29 31 | 9°18'17 | 28°26 | 11°34 | 21°27 | 21°33 | 7°36 | 13°22 | 11°48 | 2°51 | 0°58 | 3°45 | 3°34 | 26°13 | 14°32 | M30 |
| T 31 | 12 33 27 | 10 Y 17'21 | 10 渘 26 | 12) (37 | 22 Y 42 | 22813 | 7 Ω 35 | 13 ∺ 28 | 11 米 51 | 2≈52 | 0959 | 3 Υ 44 | 3 Υ 31 | 26 ₽ 20 | 14) (36 | T 31 |
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| W 1 | 12 37 24 | 11 Υ 16'23 | 22 √ 37 | 13) (43 | 23 Y 56 | 22 8 54 | 7°R35 | 13) 35 | 11 米 54 | 2≈54 | 0959 | 3°R43 | 3 Υ28 | 26 <u>₽</u> 26 | 14) (39 | W 1 |
| T 2 | 12 41 21 | 12°15'23 | 5 る 3 | 14°52 | 25°10 | 23°35 | 7Ω 34 | 13°42 | 11°57 | 2°55 | 0°59 | 3 Υ43 | 3°25 | 26°33 | 14°43 | T 2 |
| F 3 | 12 45 17 | 13°14'21 | 17°47 | 16° 2 | 26°24 | 24°15 | 7°D34 | 13°49 | 12° 0 | 2°56 | 1° 0 | 3°D43 | 3°21 | 26°40 | 14°46 | F 3 |
| S 4 | 12 49 14 | 14°13'18 | 0≈54 | 17°15 | 27°38 | 24°56 | 7°34 | 13°55 | 12° 3 | 2°57 | 1° 0 | 3°43 | 3°18 | 26°46 | 14°49 | S 4 |
| S 5 | 12 53 10 | 15°12'13 | 14°26 | 18°30 | 28°52 | 25°36 | 7°34 | 14° 2 | 12° 6 | 2°58 | 1° 1 | 3°44 | 3°15 | 26°53 | 14°53 | S 5 |
| M 6 | 12 57 7 | 16°11'06 | 28°24 | 19°47 | 0 8 6 | 26°17 | 7°35 | 14° 9 | 12° 9 | 2°59 | 1° 1 | 3°45 | 3°12 | 26°59 | 14°56 | M 6 |
| T 7 | 13 1 3 | 17° 9'57 | 12) (49 | 21° 7 | 1°21 | 26°57 | 7°35 | 14°15 | 12°12 | 3° 0 | 1° 2 | 3°46 | 3° 9 | 27° 6 | 15° 0 | T 7 |
| W 8 | 13 5 0 | 18° 8'47 | 27°36 | 22°28 | 2°35 | 27°38 | 7°36 | 14°22 | 12°15 | 3° 1 | 1° 2 | 3°R46 | 3° 6 | 27°13 | 15° 3 | W 8 |
| T 9 | 13 8 56 | 19° 7'34 | 12 Y 40 | 23°51 | 3°49 | 28°18 | 7°37 | 14°28 | 12°18 | 3° 1 | 1° 3 | 3°46 | 3° 2 | 27°19 | 15° 6 | T 9 |
| F 10 | 13 12 53 | 20° 6'20 | 27°52 | 25°15 | 5° 3 | 28°58 | 7°38 | 14°35 | 12°21 | 3° 2 | 1° 3 | 3°45 | 2°59 | 27°26 | 15°10 | F 10 |
| S 11 | 13 16 50 | 21° 5'04 | 138 3 | 26°42 | 6°16 | 29°39 | 7°40 | 14°41 | 12°24 | 3° 3 | 1° 4 | 3°44 | 2°56 | 27°33 | 15°13 | S 11 |
| S 12 | 13 20 46 | 22° 3'45 | 28° 2 | 28°10 | 7°30 | 0 Ц 19 | 7°41 | 14°48 | 12°26 | 3° 4 | 1° 5 | 3°41 | 2°53 | 27°39 | 15°16 | S 12 |
| M13 | 13 24 43 | 23° 2'25 | 12 Ⅱ 43 | 29°41 | 8°44 | 0°59 | 7°43 | 14°54 | 12°29 | 3° 5 | 1° 5 | 3°39 | 2°50 | 27°46 | 15°19 | M13 |
| T 14 | 13 28 39 | 24° 1'02 | 27° 0 | 1 Y 13 | 9°58 | 1°39 | 7°45 | 15° 0 | 12°32 | 3° 5 | 1° 6 | 3°37 | 2°47 | 27°53 | 15°22 | T 14 |
| W15 | 13 32 36 | 24°59'37 | 109549 | 2°46 | 11°12 | 2°20 | 7°47 | 15° 7 | 12°35 | 3° 6 | 1° 7 | 3°35 | 2°43 | 27°59 | 15°26 | W15 |
| T 16 | 13 36 32 | 25°58'10 | 24°12 | 4°21 | 12°26 | 3° 0 | 7°49 | 15°13 | 12°38 | 3° 7 | 1° 7 | 3°D35 | 2°40 | 28° 6 | 15°29 | T 16 |
| F 17 | 13 40 29 | 26°56'41 | 7 Ω 11 | 5°59 | 13°40 | 3°40 | 7°52 | 15°19 | 12°40 | 3° 7 | 1°8 | 3°35 | 2°37 | 28°13 | 15°32 | F 17 |
| S 18 | 13 44 25 | 27°55'09 | 19°48 | 7°37 | 14°53 | 4°20 | 7°54 | 15°25 | 12°43 | 3° 8 | 1° 9 | 3°36 | 2°34 | 28°19 | 15°35 | S 18 |
| S 19 | 13 48 22 | 28°53'35 | 2Mp 8 | 9°18 | 16° 7 | 5° 0 | 7°57 | 15°31 | 12°46 | 3° 8 | 1°10 | 3°38 | 2°31 | 28°26 | 15°38 | S 19 |
| M20 | 13 52 19 | 29°51'59 | 14°15 | 11° 0 | 17°21 | 5°40 | 8° 0 | 15°37 | 12°48 | 3° 9 | 1°10 | 3°39 | 2°27 | 28°33 | 15°41 | M20 |
| T 21 | 13 56 15 | 0 8 50'21 | 26°13 | 12°44 | 18°34 | 6°20 | 8° 3 | 15°43 | 12°51 | 3° 9 | 1°11 | 3°40 | 2°24 | 28°39 | 15°44 | T 21 |
| W22 | 14 0 12 | 1°48'41 | 8 ₾ 5 | 14°29 | 19°48 | 7° 0 | 8° 6 | 15°49 | 12°53 | 3°10 | 1°12 | 3°R41 | 2°21 | 28°46 | 15°47 | W22 |
| T 23 | 14 4 8 | 2°46'59 | 19°53 | 16°17 | 21° 1 | 7°40 | 8°10 | 15°55 | 12°56 | 3°10 | 1°13 | 3°39 | 2°18 | 28°53 | 15°50 | T 23 |
| F 24 | 14 8 5 | 3°45'15 | 1 M .42 | 18° 6 | 22°15 | 8°20 | 8°14 | 16° 0 | 12°58 | 3°11 | 1°14 | 3°37 | 2°15 | 28°59 | 15°52 | F 24 |
| S 25 | 14 12 1 | 4°43'30 | 13°32 | 19°57 | 23°29 | 9° 0 | 8°17 | 16° 6 | 13° 1 | 3°11 | 1°15 | 3°33 | 2°12 | 29° 6 | 15°55 | S 25 |
| S 26 | 14 15 58 | 5°41'42 | 25°26 | 21°49 | 24°42 | 9°40 | 8°21 | 16°12 | 13° 3 | 3°11 | 1°15 | 3°27 | 2° 8 | 29°13 | 15°58 | S 26 |
| M27 | 14 19 54 | 6°39'54 | 7 .₹ 25 | 23°44 | 25°56 | 10°20 | 8°26 | 16°17 | 13° 5 | 3°12 | 1°16 | 3°22 | 2° 5 | 29°19 | 16° 1 | M27 |
| T 28 | 14 23 51 | 7°38'03 | 1 <u>9</u> °32 | 25°40 | 27° 9 | 10°59 | 8°30 | 16°23 | 13° 8 | 3°12 | 1°17 | 3°16 | 2° 2 | 29°26 | 16° 3 | T 28 |
| W29 | 14 27 48 | 8°36'11 | 1 조 49 | 27°37 | 28°22 | 11°39 | 8°34 | 16°28 | 13°10 | 3°12 | 1°18 | 3°10 | 1°59 | 29°33 | 16° 6 | W29 |
| T 30 | 14 31 44 | 9 8 34'18 | 14 궁 18 | 29 Y 37 | 29 8 36 | 12 Ⅱ 19 | 8 N 39 | 16 ∺ 34 | 13 ∺ 12 | 3≈12 | 19519 | 3 Υ 6 | 1 Υ 56 | 29 ≙ 39 | 16 ∺ 9 | T 30 |

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| F 1 | 14 35 41 | 10832'23 | 27중 3 | 1838 | 0 Ⅱ 49 | 12 II 59 | 8 Ω 44 | 16 ∺ 39 | 13 米 15 | 3≈13 | 19520 | 3°R 4 | 1 Y 52 | 29 ≏ 46 | 16 米 11 | F 1 |
| S 2 | 14 39 37 | 11°30'26 | 10≈ 6 | 3°41 | 2° 2 | 13°38 | 8°49 | 16°44 | 13°17 | 3°13 | 1°21 | 3°D 3 | 1°49 | 29°53 | 16°14 | S 2 |
| S 3 | 14 43 34 | 12°28'28 | 23°30 | 5°45 | 3°16 | 14°18 | 8°54 | 16°50 | 13°19 | 3°13 | 1°22 | 3 Υ 3 | 1°46 | 29°59 | 16°16 | S 3 |
| M 4 | 14 47 30 | 13°26'29 | 7 ∺ 18 | 7°51 | 4°29 | 14°58 | 8°59 | 16°55 | 13°21 | 3°13 | 1°23 | 3° 5 | 1°43 | OM 6 | 16°19 | M 4 |
| T 5 W 6 | 14 51 27 14 55 23 | 14°24'29 15°22'27 | 21°30 6 ° 5 | 9°58 12° 6 | 5°42 6°55 | 15°37 16°17 | 9° 5 9°10 | 17° 0 17° 5 | 13°23 13°25 | 3°R13 3°13 | 1°24 1°25 | 3° 6 3°R 6 | 1°40 1°37 | 0°13 0°19 | 16°21 16°23 | T 5 W 6 |
| T 7 | 14 55 23 | 16°20'23 | 21° 0 | 14°15 | 8° 9 | 16°17 | 9°16 | 17° 3 | 13°25 13°27 | 3°13 | 1°23 | 3° K 6 | 1°37 | 0°19 0°26 | 16°23 | W 6 |
| F 8 | 15 3 17 | 10 20 23 17°18'19 | 6 8 7 | 16°25 | 9°22 | 17°36 | 9°22 | 17°15 | 13°29 | 3°13 | 1°28 | 3° 2 | 1°30 | 0°33 | 16°28 | F 8 |
| S 9 | 15 7 13 | 18°16'13 | 21°19 | 18°36 | 10°35 | 18°16 | 9°28 | 17°19 | 13°31 | 3°13 | 1°29 | 2°57 | 1°27 | 0°39 | 16°30 | S 9 |
| S 10 | 15 11 10 | 19°14'06 | 6 Ⅱ 24 | 20°47 | 11°48 | 18°55 | 9°34 | 17°24 | 13°33 | 3°13 | 1°30 | 2°50 | 1°24 | 0°46 | 16°32 | S 10 |
| M11 | 15 15 6 | 20°11'57 | 21°14 | 22°58 | 13° 1 | 19°35 | 9°40 | 17°29 | 13°35 | 3°12 | 1°31 | 2°43 | 1°21 | 0°53 | 16°34 | M11 |
| T 12 | 15 19 3 | 21° 9'46 | 5७ 41 | 25° 9 | 14°14 | 20°14 | 9°47 | 17°33 | 13°36 | 3°12 | 1°32 | 2°36 | 1°18 | 0°59 | 16°36 | T 12 |
| W13 | 15 22 59 | 22° 7'34 | 19°39 | 27°19 | 15°27 | 20°53 | 9°53 | 17°38 | 13°38 | 3°12 | 1°33 | 2°30 | 1°14 | 1° 6 | 16°39 | W13 |
| T 14 | 15 26 56 | 23° 5'20 | 3 0 9 | 29°29 | 16°40 | 21°33 | 10° 0 | 17°42 | 13°40 | 3°12 | 1°35 | 2°27 | 1°11 | 1°13 | 16°41 | T 14 |
| F 15 S 16 | 15 30 52 15 34 49 | 24° 3'04 25° 0'47 | 16°11 28°48 | 1 ∏ 38 3°45 | 17°53 19°6 | 22°12 22°51 | 10° 7 10°14 | 17°47 17°51 | 13°41 13°43 | 3°11 3°11 | 1°36 1°37 | 2°25 2°D24 | 1° 8 1° 5 | 1°19 1°26 | 16°42 16°44 | F 15 S 16 |
| | | | | | | | | | | | | | _ | | | |
| S 17 | 15 38 46 | 25°58'28 | 11 Mp 6 | 5°51 | 20°19 | 23°31 | 10°21 | 17°55 | 13°45 | 3°11 | 1°38 | 2°25 | 1° 2 | 1°33 | 16°46 | S 17 |
| M18 T 19 | 15 42 42 15 46 39 | 26°56'07 27°53'45 | 23°10 5 <u>0</u> 3 | 7°55 9°58 | 21°31 22°44 | 24°10 24°49 | 10°28 10°36 | 17°59 18° 3 | 13°46 13°48 | 3°10 3°10 | 1°39 1°41 | 2°26 2°R27 | 0°58 0°55 | 1°39 1°46 | 16°48 16°50 | M18 T 19 |
| W20 | 15 50 35 | 28°51'22 | 16°52 | 11°58 | 23°57 | 25°29 | 10°30 | 18° 7 | 13°49 | 3° 9 | 1°42 | 2°25 | 0°52 | 1°53 | 16°51 | W20 |
| T 21 | 15 54 32 | 29°48'57 | 28°39 | 13°56 | 25°10 | 26° 8 | 10°51 | 18°11 | 13°50 | 3° 9 | 1°43 | 2°22 | 0°49 | 1°59 | 16°53 | T 21 |
| F 22 | 15 58 28 | 0Д46'31 | 10M29 | 15°51 | 26°22 | 26°47 | 10°59 | 18°15 | 13°52 | 3° 8 | 1°45 | 2°16 | 0°46 | 2° 6 | 16°55 | F 22 |
| S 23 | 16 2 25 | 1°44'03 | 22°23 | 17°44 | 27°35 | 27°26 | 11° 7 | 18°18 | 13°53 | 3° 8 | 1°46 | 2° 8 | 0°43 | 2°13 | 16°56 | S 23 |
| S 24 | 16 621 | 2°41'35 | 4 ₹ 25 | 19°34 | 28°48 | 28° 5 | 11°15 | 18°22 | 13°54 | 3° 7 | 1°47 | 1°58 | 0°39 | 2°19 | 16°58 | S 24 |
| M25 | 16 10 18 | 3°39'05 | 16°34 | 21°22 | 0න 0 | 28°44 | 11°23 | 18°26 | 13°56 | 3° 7 | 1°49 | 1°47 | 0°36 | 2°26 | 16°59 | M25 |
| T 26 | 16 14 15 | 4°36'34 | 28°53 | 23° 7 | 1°13 | 29°23 | 11°31 | 18°29 | 13°57 | 3° 6 | 1°50 | 1°36 | 0°33 | 2°33 | 17° 1 | T 26 |
| W27 | 16 18 11 | 5°34'03 | 11 궁 22 | 24°49 | 2°25 | 099 3 | 11°40 | 18°32 | 13°58 | 3° 5 | 1°51 | 1°26 | 0°30 | 2°39 | 17° 2 | W27 |
| T 28 F 29 | 16 22 8 16 26 4 | 6°31'30 7°28'57 | 24° 3 6 ≈ 55 | 26°28 28° 4 | 3°38 4°50 | 0°42 1°21 | 11°48 11°57 | 18°36 18°39 | 13°59 14° 0 | 3° 5 3° 4 | 1°53 1°54 | 1°17 1°11 | 0°27 0°24 | 2°46 2°53 | 17° 3 17° 4 | T 28 F 29 |
| S 30 | 16 26 4 | 8°26'23 | 0≈33 20° 2 | 28° 4 29°38 | 6° 2 | 2° 0 | 11°57 12° 5 | 18°39 | 14° 0 | 3° 4 | 1°55 | 1° 11 | 0°24 0°20 | 2°59 | 17° 4 | S 30 |
| S 31 | 16 33 57 | 9 ∏ 23'48 | 3 ∺ 26 | 199 8 | 7 © 15 | 2939 | 12 Ω 14 | 18) 45 | 14) 2 | 3≈ 3 | 1957 | 1 Υ 6 | 0 Υ 17 | 3M 6 | 17) 7 | S 31 |

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| M 1 | 16 37 54 | 10 Ⅲ 21'13 | 17) 7 | 2936 | 89527 | 39518 | 12 Ω 23 | 18) 48 | 14) 3 | 3°R 2 | 1958 | 1°D 6 | 0 Υ 14 | 3 M 13 | 17) 8 | M 1 |
| T 2 | 16 41 50 | 11°18'36 | 1 ℃ 7 | 4° 0 | 9°39 | 3°56 | 12°32 | 18°51 | 14° 4 | 3≈ 1 | 1°59 | 1°R 6 | 0°11 | 3°19 | 17° 9 | T 2 |
| W 3 | 16 45 47 | 12°16'00 | 15°27 | 5°22 | 10°51 | 4°35 | 12°41 | 18°53 | 14° 4 | 3° 0 | 2° 1 | 1 Υ 5 | 0° 8 | 3°26 | 17°10 | W 3 |
| T 4 | 16 49 44 | 13°13'23 | 08 4 | 6°40 | 12° 4 | 5°14 | 12°51 | 18°56 | 14° 5 | 2°59 | 2° 2 | 1° 3 | 0° 4 | 3°33 | 17°11 | T 4 |
| F 5 | 16 53 40 | 14°10'45 | 14°55 | 7°56 | 13°16 | 5°53 | 13° 0 | 18°59 | 14° 6 | 2°58 | 2° 4 | 0°58 | 0° 1 | 3°39 | 17°12 | F 5 |
| S 6 | 16 57 37 | 15° 8'07 | 29°52 | 9° 8 | 14°28 | 6°32 | 13° 9 | 19° 1 | 14° 6 | 2°57 | 2° 5 | 0°50 | 29 米 58 | 3°46 | 17°12 | S 6 |
| S 7 | 17 1 33 | 16° 5'28 | 14 Ⅱ 47 | 10°17 | 15°40 | 7°11 | 13°19 | 19° 3 | 14° 7 | 2°56 | 2° 7 | 0°40 | 29°55 | 3°53 | 17°13 | S 7 |
| M 8 | 17 5 30 | 17° 2'49 | 29°31 | 11°23 | 16°52 | 7°50 | 13°29 | 19° 6 | 14° 8 | 2°55 | 2° 8 | 0°29 | 29°52 | 3°59 | 17°14 | M 8 |
| T 9 | 17 9 26 | 18° 0'08 | 139556 | 12°26 | 18° 4 | 8°29 | 13°38 | 19° 8 | 14° 8 | 2°54 | 2° 9 | 0°19 | 29°49 | 4° 6 | 17°15 | T 9 |
| W10 | 17 13 23 | 18°57'27 | 27°56 | 13°25 | 19°16 | 9° 7 | 13°48 | 19°10 | 14° 9 | 2°53 | 2°11 | 0°10 | 29°45 | 4°13 | 17°15 | W10 |
| T 11 F 12 | 17 17 20 | 19°54'46 | 11 \O28 | 14°21 | 20°28 | 9°46 | 13°58 | 19°12 | 14° 9 14° 9 | 2°52 | 2°12 | 0° 3 29 ∺ 58 | 29°42 | 4°19 4°26 | 17°16 17°16 | T 11 F 12 |
| S 13 | 17 21 16 17 25 13 | 20°52'03 21°49'19 | 24°33 | 15°13 16° 1 | 21°40 22°52 | 10°25 11° 4 | 14° 8 14°18 | 19°14 19°16 | 14° 9 | 2°51 2°50 | 2°14 2°15 | 29 X 38 | 29°39 29°36 | 4°26 4°33 | 17°16 | S 13 |
| | | | 7 m) 13 | - | | | _ | | | | | | | | | |
| S 14 | 17 29 9 | 22°46'35 | 19°32 | 16°46 | 24° 3 | 11°42 | 14°28 | 19°17 | 14°10 | 2°49 | 2°17 | 29°55 | 29°33 | 4°39 | 17°17 | S 14 |
| M15 | 17 33 6 | 23°43'50 | 1 2 36 | 17°26 | 25°15 | 12°21 | 14°39 | 19°19 | 14°10 | 2°48 | 2°18 | 29°55 | 29°30 | 4°46 | 17°17 | M15 |
| T 16 | 17 37 2 | 24°41'04 | 13°30 | 18° 3 | 26°27 | 13° 0 | 14°49 | 19°20 | 14°10 | 2°47 | 2°20 | 29°55 | 29°26 | 4°53 | 17°17 | T 16 |
| W17 | 17 40 59 | 25°38'17 | 25°19 | 18°36 19°4 | 27°38 | 13°39 | 14°59 | 19°22 | 14°10 | 2°45 | 2°21 | 29°53 | 29°23 | 4°59 | 17°18 | W17 |
| T 18 F 19 | 17 44 55 17 48 52 | 26°35'30 27°32'42 | 7 M 8 19°1 | 19° 4 | 28°50 0 Ω 1 | 14°17 14°56 | 15°10 15°21 | 19°23 19°24 | 14°10 14°R10 | 2°44 2°43 | 2°23 2°24 | 29°49 29°42 | 29°20 29°17 | 5° 6 5°13 | 17°18 17°18 | T 18 F 19 |
| S 20 | 17 52 48 | 28°29'54 | 19 1 | 19°48 | 1°13 | 15°34 | 15°31 | 19°25 | 14°10 | 2°42 | 2°26 | 29°32 | 29°17 | 5°19 | 17°R18 | S 20 |
| | | | • | | | | | | - | | | | - | | | |
| S 21 | 17 56 45 | 29°27'06 | 13°12 | 20° 3 | 2°24 | 16°13 | 15°42 | 19°26 | 14°10 | 2°40 | 2°27 | 29°21 | 29°10 | 5°26 | 17°18 | S 21 |
| M22 | 18 0 42 | 09524'17 | 25°34 | 20°14 | 3°36 | 16°52 | 15°53 | 19°27 | 14°10 | 2°39 | 2°29 | 29° 8 | 29° 7 | 5°33 | 17°18 | M22 |
| T 23 W24 | 18 4 38 18 8 35 | 1°21'28 2°18'39 | 8 궁 8 20°55 | 20°20 20°R21 | 4°47 5°58 | 17°30 18° 9 | 16° 4 16°15 | 19°28 19°29 | 14°10 14°10 | 2°38 2°36 | 2°30 2°31 | 28°55 28°42 | 29° 4 29° 1 | 5°39 5°46 | 17°18 17°18 | T 23 W24 |
| T 25 | 18 12 31 | 3°15'49 | 20°53 3 ≈ 53 | 20°18 | 7° 9 | 18°47 | 16°26 | 19°29 | 14° 10 | 2°35 | 2°33 | 28°32 | 28°58 | 5°53 | 17°17 | T 25 |
| F 26 | 18 16 28 | 4°13'00 | 17° 2 | 20°10 | 8°20 | 19°26 | 16°20 | 19°29 | 14° 9 | 2°34 | 2°34 | 28°25 | 28°55 | 5°59 | 17°17 | F 26 |
| S 27 | 18 20 24 | 5°10'11 | 0) €23 | 19°58 | 9°31 | 20° 4 | 16°48 | 19°30 | 14° 9 | 2°32 | 2°36 | 28°20 | 28°51 | 6° 6 | 17°17 | S 27 |
| | | | | | | | | | - | | | | | | | |
| S 28 | 18 24 21 | 6° 7'22 7° 4'33 | 13°55 27°39 | 19°41 19°21 | 10°42 | 20°43 21°21 | 16°59 | 19°31 19°31 | 14° 8 | 2°31 | 2°37 | 28°18 | 28°48 | 6°13 | 17°16 | S 28 |
| M29 T 30 | 18 28 18 18 32 14 | 7° 4'33 8 © 1'44 | 11 Y 36 | 18956 | 11°53 13 Ω 4 | 21°21 | 17°11 17 Ω 22 | 19°31 19 ¥ 31 | 14° 8 14 ¥ 7 | 2°30 2 ≈ 28 | 2°39 2 © 40 | 28°D18 28°R18 | 28°45 28) 42 | 6°19 6 M -26 | 17°16 17) (15 | M29 T 30 |
| 1 30 | 10 34 14 | 0 20 1 44 | 11 1 30 | 10-20-00 | 1306 4 | 0 فخ∠∠ | 1/0622 | 17/(31 | 14八 / | ∠ ~ ~∠8 | ∪∓وخ∠ | 20 K10 | 20 八 42 | 011620 | 1//(13 | 1 30 |

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|------|----------|------------------|-------------------|----------------|-----------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|----------------|----------------|----------------|------|
| W 1 | 18 36 11 | 8958'56 | 25 Y 45 | 18°R28 | 14Ω15 | 22938 | 17 Ω 34 | 19°R31 | 14°R 7 | 2°R27 | 29542 | 28°R17 | 28 米 39 | 6M33 | 17°R15 | W 1 |
| T 2 | 18 40 7 | 9°56'08 | 10 8 6 | 179557 | 15°26 | 23°17 | 17°45 | 19 米 31 | 14 ∺ 6 | 2≈25 | 2°43 | 28) 14 | 28°36 | 6°39 | 17) 14 | T 2 |
| F 3 | 18 44 4 | 10°53'20 | 24°36 | 17°24 | 16°37 | 23°55 | 17°57 | 19°31 | 14° 5 | 2°24 | 2°45 | 28° 9 | 28°32 | 6°46 | 17°13 | F 3 |
| S 4 | 18 48 0 | 11°50'33 | 9 Ⅱ 10 | 16°48 | 17°47 | 24°34 | 18° 8 | 19°30 | 14° 5 | 2°22 | 2°46 | 28° 1 | 28°29 | 6°53 | 17°13 | S 4 |
| S 5 | 18 51 57 | 12°47'46 | 23°43 | 16°10 | 18°58 | 25°12 | 18°20 | 19°30 | 14° 4 | 2°21 | 2°48 | 27°52 | 28°26 | 6°59 | 17°12 | S 5 |
| M 6 | 18 55 53 | 13°45'00 | 8 95 7 | 15°32 | 20° 8 | 25°50 | 18°32 | 19°30 | 14° 3 | 2°19 | 2°49 | 27°41 | 28°23 | 7° 6 | 17°11 | M 6 |
| T 7 | 18 59 50 | 14°42'14 | 22°17 | 14°54 | 21°19 | 26°29 | 18°44 | 19°29 | 14° 2 | 2°18 | 2°51 | 27°30 | 28°20 | 7°13 | 17°10 | T 7 |
| W 8 | 19 3 47 | 15°39'28 | 6Ω 6 | 14°15 | 22°29 | 27° 7 | 18°56 | 19°28 | 14° 2 | 2°16 | 2°52 | 27°21 | 28°16 | 7°20 | 17° 9 | W 8 |
| T 9 | 19 7 43 | 16°36'42 | 19°33 | 13°38 | 23°40 | 27°46 | 19°8 | 19°27 | 14° 1 | 2°15 | 2°54 | 27°13 | 28°13 | 7°26 | 17° 8 | T 9 |
| F 10 | 19 11 40 | 17°33'56 | 2 Mp 35 | 13° 3 | 24°50 | 28°24 | 19°20 | 19°27 | 14° 0 | 2°13 | 2°55 | 27° 8 | 28°10 | 7°33 | 17° 7 | F 10 |
| S 11 | 19 15 36 | 18°31'11 | 15°14 | 12°29 | 26° 0 | 29° 2 | 19°32 | 19°26 | 13°59 | 2°12 | 2°57 | 27° 6 | 28° 7 | 7°40 | 17° 6 | S 11 |
| S 12 | 19 19 33 | 19°28'25 | 27°34 | 11°59 | 27°10 | 29°41 | 19°44 | 19°24 | 13°58 | 2°10 | 2°58 | 27°D 5 | 28° 4 | 7°46 | 17° 5 | S 12 |
| M13 | 19 23 29 | 20°25'40 | 9 ॒ 39 | 11°32 | 28°20 | 0Ω19 | 19°56 | 19°23 | 13°56 | 2° 8 | 2°59 | 27° 6 | 28° 1 | 7°53 | 17° 4 | M13 |
| T 14 | 19 27 26 | 21°22'55 | 21°34 | 11° 9 | 29°30 | 0°57 | 20° 8 | 19°22 | 13°55 | 2° 7 | 3° 1 | 27°R 6 | 27°57 | 8° 0 | 17° 2 | T 14 |
| W15 | 19 31 22 | 22°20'10 | 3M25 | 10°51 | 0 m) 40 | 1°36 | 20°20 | 19°21 | 13°54 | 2° 5 | 3° 2 | 27° 5 | 27°54 | 8° 6 | 17° 1 | W15 |
| T 16 | 19 35 19 | 23°17'25 | 15°16 | 10°37 | 1°50 | 2°14 | 20°32 | 19°19 | 13°53 | 2° 4 | 3° 4 | 27° 3 | 27°51 | 8°13 | 17° 0 | T 16 |
| F 17 | 19 39 16 | 24°14'41 | 27°12 | 10°29 | 2°59 | 2°52 | 20°45 | 19°18 | 13°52 | 2° 2 | 3° 5 | 26°58 | 27°48 | 8°20 | 16°58 | F 17 |
| S 18 | 19 43 12 | 25°11'57 | 9 ∡ 18 | 10°D26 | 4° 9 | 3°31 | 20°57 | 19°16 | 13°50 | 2° 0 | 3° 6 | 26°51 | 27°45 | 8°26 | 16°57 | S 18 |
| S 19 | 19 47 9 | 26° 9'14 | 21°36 | 10°29 | 5°19 | 4° 9 | 21° 9 | 19°14 | 13°49 | 1°59 | 3° 8 | 26°43 | 27°42 | 8°33 | 16°55 | S 19 |
| M20 | 19 51 5 | 27° 6'31 | 4 ට 10 | 10°37 | 6°28 | 4°47 | 21°22 | 19°12 | 13°48 | 1°57 | 3° 9 | 26°33 | 27°38 | 8°40 | 16°54 | M20 |
| T 21 | 19 55 2 | 28° 3'49 | 16°59 | 10°52 | 7°37 | 5°25 | 21°34 | 19°10 | 13°46 | 1°56 | 3°11 | 26°22 | 27°35 | 8°46 | 16°52 | T 21 |
| W22 | 19 58 58 | 29° 1'07 | 0≈ 4 | 11°12 | 8°47 | 6° 4 | 21°47 | 19°8 | 13°45 | 1°54 | 3°12 | 26°13 | 27°32 | 8°53 | 16°51 | W22 |
| T 23 | 20 2 55 | 29°58'26 | 13°24 | 11°39 | 9°56 | 6°42 | 21°59 | 19° 6 | 13°43 | 1°52 | 3°13 | 26° 5 | 27°29 | 9° 0 | 16°49 | T 23 |
| F 24 | 20 6 52 | 0 Ω 55'45 | 26°56 | 12°11 | 11° 5 | 7°20 | 22°12 | 19° 4 | 13°42 | 1°51 | 3°15 | 26° 0 | 27°26 | 9° 6 | 16°47 | F 24 |
| S 25 | 20 10 48 | 1°53'06 | 10 ∺ 38 | 12°50 | 12°14 | 7°58 | 22°25 | 19° 2 | 13°40 | 1°49 | 3°16 | 25°56 | 27°22 | 9°13 | 16°46 | S 25 |
| S 26 | 20 14 45 | 2°50'28 | 24°30 | 13°34 | 13°23 | 8°37 | 22°37 | 18°59 | 13°39 | 1°47 | 3°17 | 25°D55 | 27°19 | 9°20 | 16°44 | S 26 |
| M27 | 20 18 41 | 3°47'50 | 8 Υ 28 | 14°25 | 14°31 | 9°15 | 22°50 | 18°57 | 13°37 | 1°46 | 3°19 | 25°56 | 27°16 | 9°26 | 16°42 | M27 |
| T 28 | 20 22 38 | 4°45'14 | 22°32 | 15°21 | 15°40 | 9°53 | 23° 3 | 18°54 | 13°35 | 1°44 | 3°20 | 25°57 | 27°13 | 9°33 | 16°40 | T 28 |
| W29 | 20 26 34 | 5°42'39 | 6 8 40 | 16°23 | 16°49 | 10°31 | 23°15 | 18°52 | 13°33 | 1°42 | 3°21 | 25°R57 | 27°10 | 9°40 | 16°38 | W29 |
| T 30 | 20 30 31 | 6°40'05 | 20°52 | 17°31 | 17°57 | 11°10 | 23°28 | 18°49 | 13°32 | 1°41 | 3°22 | 25°56 | 27° 7 | 9°46 | 16°36 | T 30 |
| F 31 | 20 34 27 | 7 Ω 37'33 | 5 II 5 | 18 9 44 | 19 m) 5 | 11 Ω 48 | 23 Ω 41 | 18) 46 | 13 ∺ 30 | 1 ≈ 39 | 3 9 24 | 25) 54 | 27 米 3 | 9 M .53 | 16 ∺ 34 | F 31 |

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|------|----------|------------------|-----------------|----------------|----------------|-----------------|----------------|------------------|----------------|-------|---------------|------------------|----------------|----------------|----------------|------|
| S 1 | 20 38 24 | 8 N 35'02 | 19 I I16 | 209 3 | 20 m 14 | 12 N 26 | 23 N 54 | 18°R43 | 13°R28 | 1°R38 | 3925 | 25°R49 | 27 米 0 | 10 M 0 | 16°R32 | S 1 |
| S 2 | 20 42 21 | 9°32'32 | 39523 | 21°26 | 21°22 | 13° 4 | 24° 6 | 18)(40 | 13 ∺ 26 | 1≈36 | 3°26 | 25) 42 | 26°57 | 10° 6 | 16 ¥ 30 | S 2 |
| M 3 | 20 46 17 | 10°30'04 | 17°21 | 22°55 | 22°30 | 13°43 | 24°19 | 18°37 | 13°24 | 1°34 | 3°28 | 25°35 | 26°54 | 10°13 | 16°28 | M 3 |
| T 4 | 20 50 14 | 11°27'37 | 1 Ω 6 | 24°28 | 23°38 | 14°21 | 24°32 | 18°34 | 13°23 | 1°33 | 3°29 | 25°28 | 26°51 | 10°20 | 16°26 | T 4 |
| W 5 | 20 54 10 | 12°25'10 | 14°35 | 26° 5 | 24°46 | 14°59 | 24°45 | 18°31 | 13°21 | 1°31 | 3°30 | 25°22 | 26°48 | 10°27 | 16°23 | W 5 |
| T 6 | 20 58 7 | 13°22'45 | 27°46 | 27°46 | 25°53 | 15°37 | 24°58 | 18°28 | 13°19 | 1°30 | 3°31 | 25°17 | 26°44 | 10°33 | 16°21 | T 6 |
| F 7 | 21 2 3 | 14°20'21 | 10 m 38 | 29°31 | 27° 1 | 16°15 | 25°11 | 18°24 | 13°17 | 1°28 | 3°32 | 25°14 | 26°41 | 10°40 | 16°19 | F 7 |
| S 8 | 21 6 0 | 15°17'58 | 23°12 | 1 Ω 20 | 28° 8 | 16°54 | 25°24 | 18°21 | 13°15 | 1°26 | 3°33 | 25°D13 | 26°38 | 10°47 | 16°16 | S 8 |
| S 9 | 21 9 56 | 16°15'36 | 5 ≙ 29 | 3°11 | 29°15 | 17°32 | 25°37 | 18°17 | 13°13 | 1°25 | 3°35 | 25°13 | 26°35 | 10°53 | 16°14 | S 9 |
| M10 | 21 13 53 | 17°13'15 | 17°33 | 5° 5 | 0 ჲ 23 | 18°10 | 25°50 | 18°14 | 13°11 | 1°23 | 3°36 | 25°15 | 26°32 | 11° 0 | 16°12 | M10 |
| T 11 | 21 17 50 | 18°10'55 | 29°28 | 7° 0 | 1°30 | 18°48 | 26° 3 | 18°10 | 13° 8 | 1°22 | 3°37 | 25°16 | 26°28 | 11° 7 | 16° 9 | T 11 |
| W12 | 21 21 46 | 19° 8'36 | 11 M .19 | 8°58 | 2°36 | 19°26 | 26°16 | 18° 6 | 13° 6 | 1°20 | 3°38 | 25°18 | 26°25 | 11°13 | 16° 7 | W12 |
| T 13 | 21 25 43 | 20° 6'19 | 23°11 | 10°57 | 3°43 | 20° 5 | 26°29 | 18° 3 | 13° 4 | 1°19 | 3°39 | 25°R18 | 26°22 | 11°20 | 16° 4 | T 13 |
| F 14 | 21 29 39 | 21° 4'02 | 5 ₹ 8 | 12°57 | 4°50 | 20°43 | 26°42 | 17°59 | 13° 2 | 1°17 | 3°40 | 25°17 | 26°19 | 11°27 | 16° 2 | F 14 |
| S 15 | 21 33 36 | 22° 1'47 | 17°16 | 14°57 | 5°56 | 21°21 | 26°55 | 17°55 | 13° 0 | 1°16 | 3°41 | 25°14 | 26°16 | 11°33 | 15°59 | S 15 |
| S 16 | 21 37 32 | 22°59'32 | 29°38 | 16°58 | 7° 2 | 21°59 | 27° 8 | 17°51 | 12°58 | 1°14 | 3°42 | 25°11 | 26°13 | 11°40 | 15°57 | S 16 |
| M17 | 21 41 29 | 23°57'19 | 12 る 18 | 18°59 | 8° 9 | 22°37 | 27°21 | 17°47 | 12°55 | 1°13 | 3°43 | 25° 6 | 26° 9 | 11°47 | 15°54 | M17 |
| T 18 | 21 45 25 | 24°55'07 | 25°17 | 21° 0 | 9°14 | 23°15 | 27°34 | 17°43 | 12°53 | 1°11 | 3°44 | 25° 1 | 26° 6 | 11°53 | 15°52 | T 18 |
| W19 | 21 49 22 | 25°52'57 | 8 ≈ 37 | 23° 0 | 10°20 | 23°54 | 27°47 | 17°39 | 12°51 | 1°10 | 3°45 | 24°57 | 26° 3 | 12° 0 | 15°49 | W19 |
| T 20 | 21 53 19 | 26°50'48 | 22°16 | 25° 0 | 11°26 | 24°32 | 28° 0 | 17°35 | 12°49 | 1° 8 | 3°46 | 24°53 | 26° 0 | 12° 7 | 15°46 | T 20 |
| F 21 | 21 57 15 | 27°48'40 | 6) €11 | 26°59 | 12°31 | 25°10 | 28°13 | 17°31 | 12°46 | 1° 7 | 3°47 | 24°50 | 25°57 | 12°13 | 15°44 | F 21 |
| S 22 | 22 1 12 | 28°46'34 | 20°20 | 28°57 | 13°36 | 25°48 | 28°26 | 17°26 | 12°44 | 1° 6 | 3°48 | 24°D49 | 25°54 | 12°20 | 15°41 | S 22 |
| S 23 | 22 5 8 | 29°44'29 | 4 Ƴ 37 | 0 m 54 | 14°41 | 26°26 | 28°39 | 17°22 | 12°42 | 1° 4 | 3°49 | 24°50 | 25°50 | 12°27 | 15°38 | S 23 |
| M24 | 22 9 5 | 0 Mp 42'26 | 18°59 | 2°50 | 15°46 | 27° 4 | 28°52 | 17°18 | 12°39 | 1° 3 | 3°50 | 24°51 | 25°47 | 12°34 | 15°36 | M24 |
| T 25 | 22 13 1 | 1°40'25 | 3 8 21 | 4°45 | 16°51 | 27°43 | 29° 5 | 17°14 | 12°37 | 1° 1 | 3°51 | 24°52 | 25°44 | 12°40 | 15°33 | T 25 |
| W26 | 22 16 58 | 2°38'26 | 17°40 | 6°39 | 17°55 | 28°21 | 29°18 | 17° 9 | 12°35 | 1° 0 | 3°52 | 24°53 | 25°41 | 12°47 | 15°30 | W26 |
| T 27 | 22 20 54 | 3°36'29 | 1 Ⅱ 53 | 8°32 | 18°59 | 28°59 | 29°32 | 17° 5 | 12°32 | 0°59 | 3°53 | 24°R54 | 25°38 | 12°54 | 15°27 | T 27 |
| F 28 | 22 24 51 | 4°34'35 | 15°59 | 10°23 | 20° 3 | 29°37 | 29°45 | 17° 0 | 12°30 | 0°58 | 3°53 | 24°53 | 25°34 | 13° 0 | 15°25 | F 28 |
| S 29 | 22 28 48 | 5°32'42 | 29°54 | 12°13 | 21° 7 | 0 m) 15 | 29°58 | 16°56 | 12°28 | 0°56 | 3°54 | 24°52 | 25°31 | 13° 7 | 15°22 | S 29 |
| S 30 | 22 32 44 | 6°30'51 | 13939 | 14° 2 | 22°11 | 0°54 | 0 m)11 | 16°51 | 12°25 | 0°55 | 3°55 | 24°50 | 25°28 | 13°14 | 15°19 | S 30 |
| M31 | 22 36 41 | 7 m 29'02 | 279911 | 15 m 50 | 23 ≏ 14 | 1 m 32 | 0 m 24 | 16) (47 | 12 米 23 | 0≈54 | 3 9 56 | 24) (48 | 25 米 25 | 13 M 20 | 15 米 16 | M31 |

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|------|----------|--------------------|----------------|-----------------|----------------|-----------------|---------------|-----------------|------------------|-------|-------|-----------------|----------------|----------------|----------------|------|
| T 1 | 22 40 37 | 8 m) 27'15 | 10 Q 30 | 17 m)37 | 24 ♀ 17 | 2 Mp 10 | 0 m 37 | 16°R42 | 12°R21 | 0°R53 | 3957 | 24°R45 | 25) 22 | 13 M 27 | 15°R13 | T 1 |
| W 2 | 22 44 34 | 9°25'29 | 23°35 | 19°22 | 25°20 | 2°48 | 0°50 | 16) €38 | 12) 18 | 0≈51 | 3°57 | 24) (43 | 25°19 | 13°34 | 15 米 11 | W 2 |
| T 3 | 22 48 30 | 10°23'46 | 6Mp25 | 21° 7 | 26°22 | 3°27 | 1° 3 | 16°33 | 12°16 | 0°50 | 3°58 | 24°42 | 25°15 | 13°40 | 15° 8 | T 3 |
| F 4 | 22 52 27 | 11°22'04 | 19° 2 | 22°50 | 27°25 | 4° 5 | 1°16 | 16°29 | 12°13 | 0°49 | 3°59 | 24°D41 | 25°12 | 13°47 | 15° 5 | F 4 |
| S 5 | 22 56 23 | 12°20'24 | 1 ≏ 24 | 24°32 | 28°27 | 4°43 | 1°29 | 16°24 | 12°11 | 0°48 | 3°59 | 24°41 | 25° 9 | 13°54 | 15° 2 | S 5 |
| S 6 | 23 0 20 | 13°18'46 | 13°34 | 26°12 | 29°28 | 5°21 | 1°41 | 16°19 | 12° 9 | 0°47 | 4° 0 | 24°42 | 25° 6 | 14° 0 | 14°59 | S 6 |
| M 7 | 23 4 16 | 14°17'09 | 25°35 | 27°52 | 0 M .30 | 5°59 | 1°54 | 16°15 | 12° 6 | 0°46 | 4° 1 | 24°43 | 25° 3 | 14° 7 | 14°56 | M 7 |
| T 8 | 23 8 13 | 15°15'34 | 7 M 29 | 29°31 | 1°31 | 6°38 | 2° 7 | 16°10 | 12° 4 | 0°45 | 4° 1 | 24°44 | 25° 0 | 14°14 | 14°53 | T 8 |
| W 9 | 23 12 10 | 16°14'01 | 19°19 | 1₾ 8 | 2°32 | 7°16 | 2°20 | 16° 5 | 12° 1 | 0°44 | 4° 2 | 24°45 | 24°56 | 14°21 | 14°51 | W 9 |
| T 10 | 23 16 6 | 17°12'30 | 1 才 10 | 2°45 | 3°33 | 7°54 | 2°33 | 16° 1 | 11°59 | 0°43 | 4° 2 | 24°45 | 24°53 | 14°27 | 14°48 | T 10 |
| F 11 | 23 20 3 | 18°11'00 | 13° 6 | 4°20 | 4°33 | 8°32 | 2°46 | 15°56 | 11°57 | 0°42 | 4° 3 | 24°R46 | 24°50 | 14°34 | 14°45 | F 11 |
| S 12 | 23 23 59 | 19° 9'32 | 25°12 | 5°54 | 5°33 | 9°11 | 2°59 | 15°52 | 11°54 | 0°41 | 4° 4 | 24°46 | 24°47 | 14°41 | 14°42 | S 12 |
| S 13 | 23 27 56 | 20° 8'06 | 7 云 33 | 7°27 | 6°32 | 9°49 | 3°11 | 15°47 | 11°52 | 0°40 | 4° 4 | 24°45 | 24°44 | 14°47 | 14°39 | S 13 |
| M14 | 23 31 52 | 21° 6'41 | 20°12 | 8°59 | 7°31 | 10°27 | 3°24 | 15°42 | 11°49 | 0°39 | 4° 5 | 24°45 | 24°40 | 14°54 | 14°36 | M14 |
| T 15 | 23 35 49 | 22° 5'18 | 3≈13 | 10°31 | 8°30 | 11° 6 | 3°37 | 15°38 | 11°47 | 0°38 | 4° 5 | 24°45 | 24°37 | 15° 1 | 14°34 | T 15 |
| W16 | 23 39 45 | 23° 3'57 | 16°38 | 12° 1 | 9°28 | 11°44 | 3°50 | 15°33 | 11°45 | 0°37 | 4° 5 | 24°45 | 24°34 | 15° 7 | 14°31 | W16 |
| T 17 | 23 43 42 | 24° 2'37 | 0 ∺ 28 | 13°30 | 10°26 | 12°22 | 4° 2 | 15°29 | 11°42 | 0°36 | 4° 6 | 24°44 | 24°31 | 15°14 | 14°28 | T 17 |
| F 18 | 23 47 39 | 25° 1'19 | 14°39 | 14°58 | 11°24 | 13° 0 | 4°15 | 15°24 | 11°40 | 0°36 | 4° 6 | 24°D44 | 24°28 | 15°21 | 14°25 | F 18 |
| S 19 | 23 51 35 | 26° 0'03 | 29°10 | 16°25 | 12°21 | 13°39 | 4°27 | 15°20 | 11°38 | 0°35 | 4° 7 | 24°R44 | 24°25 | 15°27 | 14°22 | S 19 |
| S 20 | 23 55 32 | 26°58'49 | 13 Y 53 | 17°51 | 13°18 | 14°17 | 4°40 | 15°15 | 11°35 | 0°34 | 4° 7 | 24°44 | 24°21 | 15°34 | 14°20 | S 20 |
| M21 | 23 59 28 | 27°57'37 | 28°42 | 19°15 | 14°14 | 14°55 | 4°52 | 15°11 | 11°33 | 0°33 | 4° 7 | 24°44 | 24°18 | 15°41 | 14°17 | M21 |
| T 22 | 0 3 25 | 28°56'28 | 13830 | 20°39 | 15° 9 | 15°34 | 5° 5 | 15° 6 | 11°31 | 0°33 | 4° 8 | 24°44 | 24°15 | 15°48 | 14°14 | T 22 |
| W23 | 0 7 21 | 29°55'21 | 28° 9 | 22° 2 | 16° 5 | 16°12 | 5°17 | 15° 2 | 11°29 | 0°32 | 4° 8 | 24°43 | 24°12 | 15°54 | 14°11 | W23 |
| T 24 | 0 11 18 | 0 ჲ 54'16 | 12 Ⅱ 35 | 23°23 | 16°59 | 16°50 | 5°30 | 14°57 | 11°26 | 0°31 | 4° 8 | 24°43 | 24° 9 | 16° 1 | 14° 9 | T 24 |
| F 25 | 0 15 14 | 1°53'13 | 26°44 | 24°43 | 17°53 | 17°29 | 5°42 | 14°53 | 11°24 | 0°31 | 4° 8 | 24°D42 | 24° 5 | 16° 8 | 14° 6 | F 25 |
| S 26 | 0 19 11 | 2°52'13 | 10934 | 26° 2 | 18°47 | 18° 7 | 5°54 | 14°49 | 11°22 | 0°30 | 4° 9 | 24°42 | 24° 2 | 16°14 | 14° 3 | S 26 |
| S 27 | 0 23 8 | 3°51'15 | 24° 6 | 27°20 | 19°40 | 18°45 | 6° 7 | 14°45 | 11°20 | 0°30 | 4° 9 | 24°43 | 23°59 | 16°21 | 14° 1 | S 27 |
| M28 | 0 27 4 | 4°50'19 | $7\Omega_{20}$ | 28°37 | 20°32 | 19°24 | 6°19 | 14°40 | 11°18 | 0°29 | 4° 9 | 24°44 | 23°56 | 16°28 | 13°58 | M28 |
| T 29 | 0 31 1 | 5°49'26 | 20°18 | 29°51 | 21°24 | 20° 2 | 6°31 | 14°36 | 11°16 | 0°29 | 4° 9 | 24°45 | 23°53 | 16°34 | 13°56 | T 29 |
| W30 | 0 34 57 | 6 ₽ 48'35 | 3 Mg 1 | 1M 5 | 22 M 15 | 20 m /41 | 6 M 43 | 14) (32 | 11) (14 | 0≈28 | 499 9 | 24) (46 | 23 米 50 | 16 M 41 | 13 ∺ 53 | W30 |

Delta T = 28.68 sec

Greg. Calendar

OCTOBER 1671 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Ŷ | ď | 4 | ħ |)/(| ¥ | Р | ₽. | S | Ç | ٨٥ | Day |
|------|---------|------------------|-----------------|----------------|----------------|----------------|----------------|------------------|----------------|-------|-------|-----------------|----------------|-----------------|------------------|------|
| T 1 | 0 38 54 | 7 ₽ 47'46 | 15 M p31 | 2 M 16 | 23M 5 | 21 m 19 | 6 m 55 | 14°R28 | 11°R11 | 0°R28 | 499 9 | 24) (46 | 23) 46 | 16 M .48 | 13°R50 | T 1 |
| F 2 | 0 42 50 | 8°46'59 | 27°50 | 3°26 | 23°55 | 21°57 | 7° 7 | 14) (24 | 11 米 9 | 0≈28 | 4° 9 | 24°R47 | 23°43 | 16°54 | 13) (48 | F 2 |
| S 3 | 0 46 47 | 9°46'14 | 10☎ 0 | 4°35 | 24°44 | 22°36 | 7°19 | 14°20 | 11° 7 | 0°27 | 4° 9 | 24°46 | 23°40 | 17° 1 | 13°45 | S 3 |
| S 4 | 0 50 43 | 10°45'31 | 22° 2 | 5°41 | 25°32 | 23°14 | 7°31 | 14°16 | 11° 5 | 0°27 | 4°R 9 | 24°45 | 23°37 | 17° 8 | 13°43 | S 4 |
| M 5 | 0 54 40 | 11°44'51 | 3 M .58 | 6°45 | 26°20 | 23°53 | 7°43 | 14°12 | 11° 3 | 0°27 | 4° 9 | 24°42 | 23°34 | 17°15 | 13°40 | M 5 |
| T 6 | 0 58 37 | 12°44'12 | 15°49 | 7°46 | 27° 7 | 24°31 | 7°55 | 14° 8 | 11° 1 | 0°27 | 4° 9 | 24°40 | 23°31 | 17°21 | 13°38 | T 6 |
| W 7 | 1 2 33 | 13°43'35 | 27°39 | 8°45 | 27°52 | 25°10 | 8° 7 | 14° 5 | 11° 0 | 0°26 | 4° 9 | 24°36 | 23°27 | 17°28 | 13°36 | W 7 |
| T 8 | 1 6 30 | 14°43'01 | 9 ₮ 30 | 9°41 | 28°37 | 25°48 | 8°18 | 14° 1 | 10°58 | 0°26 | 4° 9 | 24°33 | 23°24 | 17°35 | 13°33 | T 8 |
| F 9 | 1 10 26 | 15°42'28 | 21°25 | 10°34 | 29°21 | 26°26 | 8°30 | 13°58 | 10°56 | 0°26 | 4° 9 | 24°31 | 23°21 | 17°41 | 13°31 | F 9 |
| S 10 | 1 14 23 | 16°41'57 | 3 る 29 | 11°24 | 0 ≯ 4 | 27° 5 | 8°42 | 13°54 | 10°54 | 0°26 | 4° 9 | 24°29 | 23°18 | 17°48 | 13°29 | S 10 |
| S 11 | 1 18 19 | 17°41'27 | 15°46 | 12°10 | 0°46 | 27°43 | 8°53 | 13°51 | 10°52 | 0°26 | 4° 9 | 24°D28 | 23°15 | 17°55 | 13°27 | S 11 |
| M12 | 1 22 16 | 18°41'00 | 28°19 | 12°51 | 1°27 | 28°22 | 9° 5 | 13°47 | 10°50 | 0°D26 | 4° 9 | 24°29 | 23°11 | 18° 1 | 13°24 | M12 |
| T 13 | 1 26 12 | 19°40'34 | 11≈15 | 13°28 | 2° 7 | 29° 0 | 9°16 | 13°44 | 10°49 | 0°26 | 4° 9 | 24°30 | 23° 8 | 18° 8 | 13°22 | T 13 |
| W14 | 1 30 9 | 20°40'10 | 24°35 | 14° 1 | 2°46 | 29°39 | 9°27 | 13°41 | 10°47 | 0°26 | 4° 8 | 24°31 | 23° 5 | 18°15 | 13°20 | W14 |
| T 15 | 1 34 6 | 21°39'47 | 8 ∺ 22 | 14°27 | 3°23 | 0 ₽ 17 | 9°38 | 13°38 | 10°45 | 0°26 | 4° 8 | 24°33 | 23° 2 | 18°22 | 13°18 | T 15 |
| F 16 | 1 38 2 | 22°39'26 | 22°37 | 14°48 | 3°59 | 0°56 | 9°50 | 13°34 | 10°44 | 0°26 | 4° 8 | 24°R34 | 22°59 | 18°28 | 13°16 | F 16 |
| S 17 | 1 41 59 | 23°39'07 | 7 Υ 16 | 15° 2 | 4°34 | 1°35 | 10° 1 | 13°31 | 10°42 | 0°26 | 4° 8 | 24°33 | 22°56 | 18°35 | 13°14 | S 17 |
| S 18 | 1 45 55 | 24°38'51 | 22°15 | 15°R 9 | 5° 8 | 2°13 | 10°12 | 13°29 | 10°41 | 0°26 | 4° 7 | 24°31 | 22°52 | 18°42 | 13°12 | S 18 |
| M19 | 1 49 52 | 25°38'36 | 7 8 25 | 15° 8 | 5°40 | 2°52 | 10°23 | 13°26 | 10°39 | 0°27 | 4° 7 | 24°28 | 22°49 | 18°48 | 13°10 | M19 |
| T 20 | 1 53 48 | 26°38'23 | 22°36 | 14°59 | 6°11 | 3°30 | 10°33 | 13°23 | 10°38 | 0°27 | 4° 7 | 24°23 | 22°46 | 18°55 | 13° 8 | T 20 |
| W21 | 1 57 45 | 27°38'12 | 7耳38 | 14°42 | 6°40 | 4° 9 | 10°44 | 13°20 | 10°36 | 0°27 | 4° 6 | 24°18 | 22°43 | 19° 2 | 13° 7 | W21 |
| T 22 | 2 1 41 | 28°38'04 | 22°24 | 14°15 | 7° 7 | 4°47 | 10°55 | 13°18 | 10°35 | 0°27 | 4° 6 | 24°14 | 22°40 | 19°8 | 13° 5 | T 22 |
| F 23 | 2 5 38 | 29°37'58 | 69346 | 13°39 | 7°33 | 5°26 | 11° 5 | 13°15 | 10°34 | 0°28 | 4° 5 | 24°10 | 22°37 | 19°15 | 13° 3 | F 23 |
| S 24 | 2 9 35 | 0 M 37'54 | 20°42 | 12°54 | 7°58 | 6° 5 | 11°16 | 13°13 | 10°32 | 0°28 | 4° 5 | 24° 8 | 22°33 | 19°22 | 13° 1 | S 24 |
| S 25 | 2 13 31 | 1°37'52 | 4 Ω 13 | 12° 1 | 8°20 | 6°43 | 11°26 | 13°11 | 10°31 | 0°29 | 4° 5 | 24°D 8 | 22°30 | 19°29 | 13° 0 | S 25 |
| M26 | 2 17 28 | 2°37'52 | 17°20 | 10°59 | 8°41 | 7°22 | 11°37 | 13° 8 | 10°30 | 0°29 | 4° 4 | 24° 9 | 22°27 | 19°35 | 12°58 | M26 |
| T 27 | 2 21 24 | 3°37'55 | 0 m) 5 | 9°50 | 9° 0 | 8° 1 | 11°47 | 13° 6 | 10°29 | 0°29 | 4° 4 | 24°10 | 22°24 | 19°42 | 12°57 | T 27 |
| W28 | 2 25 21 | 4°37'59 | 12°34 | 8°36 | 9°17 | 8°39 | 11°57 | 13° 4 | 10°28 | 0°30 | 4° 3 | 24°12 | 22°21 | 19°49 | 12°55 | W28 |
| T 29 | 2 29 17 | 5°38'06 | 24°50 | 7°19 | 9°32 | 9°18 | 12° 7 | 13° 2 | 10°27 | 0°30 | 4° 3 | 24°R12 | 22°17 | 19°55 | 12°54 | T 29 |
| F 30 | 2 33 14 | 6°38'14 | 6₽56 | 6° 1 | 9°45 | 9°57 | 12°17 | 13° 1 | 10°26 | 0°31 | 4° 2 | 24°12 | 22°14 | 20° 2 | 12°52 | F 30 |
| S 31 | 2 37 10 | 7 M 38'25 | 18 ≏ 55 | 4 M .44 | 9 ∡ 156 | 10 ≏ 35 | 12 M 27 | 12 米 59 | 10 ∺ 25 | 0≈32 | 499 1 | 24 米 9 | 22) 11 | 20 M 9 | 12 米 51 | S 31 |

Delta T = 28.63 sec

NOVEMBER 1671 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)∤(| Ť. | Р | P | Ω | Ç | ę k | Day |
|------|---------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|---------------|----------------|----------------|----------------|------------------|------|
| S 1 | 2 41 7 | 8 M .38'37 | 0 M .49 | 3°R31 | 10 才 4 | 11 ≏ 14 | 12 m 37 | 12°R57 | 10°R24 | 0≈32 | 4°R 1 | 24°R 3 | 22) 8 | 20M15 | 12°R50 | S 1 |
| M 2 | 2 45 4 | 9°38'52 | 12°41 | 2M24 | 10°11 | 11°53 | 12°46 | 12) 56 | 10 ∺ 23 | 0°33 | 495 0 | 23 米 56 | 22° 5 | 20°22 | 12) (48 | M 2 |
| T 3 | 2 49 0 | 10°39'08 | 24°31 | 1°25 | 10°15 | 12°32 | 12°56 | 12°54 | 10°22 | 0°34 | 4° 0 | 23°47 | 22° 2 | 20°29 | 12°47 | T 3 |
| W 4 | 2 52 57 | 11°39'26 | 6 ₹ 22 | 0°36 | 10°R17 | 13°10 | 13° 5 | 12°53 | 10°21 | 0°34 | 3°59 | 23°37 | 21°58 | 20°36 | 12°46 | W 4 |
| T 5 | 2 56 53 | 12°39'46 | 18°16 | 29 Ω 58 | 10°16 | 13°49 | 13°15 | 12°52 | 10°20 | 0°35 | 3°58 | 23°28 | 21°55 | 20°42 | 12°45 | T 5 |
| F 6 | 3 0 50 | 13°40'07 | 0 궁 14 | 29°32 | 10°13 | 14°28 | 13°24 | 12°51 | 10°20 | 0°36 | 3°57 | 23°19 | 21°52 | 20°49 | 12°44 | F 6 |
| S 7 | 3 4 46 | 14°40'30 | 12°19 | 29°17 | 10° 8 | 15° 7 | 13°33 | 12°50 | 10°19 | 0°37 | 3°57 | 23°12 | 21°49 | 20°56 | 12°43 | S 7 |
| S 8 | 3 8 43 | 15°40'54 | 24°34 | 29°D14 | 10° 0 | 15°46 | 13°42 | 12°49 | 10°18 | 0°38 | 3°56 | 23° 7 | 21°46 | 21° 2 | 12°42 | S 8 |
| M 9 | 3 12 39 | 16°41'19 | 7≈ 4 | 29°21 | 9°49 | 16°24 | 13°51 | 12°48 | 10°18 | 0°39 | 3°55 | 23° 5 | 21°43 | 21° 9 | 12°41 | M 9 |
| T 10 | 3 16 36 | 17°41'46 | 19°52 | 29°40 | 9°36 | 17° 3 | 14° 0 | 12°47 | 10°17 | 0°40 | 3°54 | 23°D 4 | 21°39 | 21°16 | 12°40 | T 10 |
| W11 | 3 20 33 | 18°42'14 | 3 ∺ 3 | 0 M 7 | 9°21 | 17°42 | 14° 9 | 12°47 | 10°17 | 0°41 | 3°54 | 23° 5 | 21°36 | 21°22 | 12°40 | W11 |
| T 12 | 3 24 29 | 19°42'44 | 16°39 | 0°44 | 9° 4 | 18°21 | 14°17 | 12°46 | 10°16 | 0°42 | 3°53 | 23°R 6 | 21°33 | 21°29 | 12°39 | T 12 |
| F 13 | 3 28 26 | 20°43'14 | 0 Υ 44 | 1°28 | 8°44 | 19° 0 | 14°25 | 12°46 | 10°16 | 0°43 | 3°52 | 23° 6 | 21°30 | 21°36 | 12°38 | F 13 |
| S 14 | 3 32 22 | 21°43'46 | 15°16 | 2°19 | 8°21 | 19°39 | 14°34 | 12°46 | 10°16 | 0°44 | 3°51 | 23° 4 | 21°27 | 21°43 | 12°38 | S 14 |
| S 15 | 3 36 19 | 22°44'20 | 0 8 13 | 3°16 | 7°57 | 20°17 | 14°42 | 12°45 | 10°16 | 0°45 | 3°50 | 22°59 | 21°23 | 21°49 | 12°37 | S 15 |
| M16 | 3 40 15 | 23°44'54 | 15°26 | 4°18 | 7°30 | 20°56 | 14°50 | 12°D45 | 10°15 | 0°46 | 3°49 | 22°52 | 21°20 | 21°56 | 12°37 | M16 |
| T 17 | 3 44 12 | 24°45'31 | 0∏48 | 5°25 | 7° 2 | 21°35 | 14°58 | 12°45 | 10°15 | 0°47 | 3°49 | 22°44 | 21°17 | 22° 3 | 12°36 | T 17 |
| W18 | 3 48 8 | 25°46'08 | 16° 5 | 6°36 | 6°32 | 22°14 | 15° 6 | 12°45 | 10°15 | 0°48 | 3°48 | 22°34 | 21°14 | 22° 9 | 12°36 | W18 |
| T 19 | 3 52 5 | 26°46'48 | 195 6 | 7°51 | 6° 0 | 22°53 | 15°13 | 12°46 | 10°D15 | 0°49 | 3°47 | 22°24 | 21°11 | 22°16 | 12°36 | T 19 |
| F 20 | 3 56 2 | 27°47'29 | 15°44 | 9° 8 | 5°27 | 23°32 | 15°21 | 12°46 | 10°15 | 0°51 | 3°46 | 22°16 | 21° 8 | 22°23 | 12°36 | F 20 |
| S 21 | 3 59 58 | 28°48'11 | 29°53 | 10°28 | 4°53 | 24°11 | 15°28 | 12°47 | 10°15 | 0°52 | 3°45 | 22°10 | 21° 4 | 22°30 | 12°35 | S 21 |
| S 22 | 4 3 55 | 29°48'55 | 13€31 | 11°50 | 4°18 | 24°50 | 15°36 | 12°47 | 10°15 | 0°53 | 3°44 | 22° 7 | 21° 1 | 22°36 | 12°35 | S 22 |
| M23 | 4 7 51 | 0 ₮ 49'41 | 26°41 | 13°13 | 3°42 | 25°29 | 15°43 | 12°48 | 10°15 | 0°55 | 3°43 | 22°D 6 | 20°58 | 22°43 | 12°D35 | M23 |
| T 24 | 4 11 48 | 1°50'28 | 9 ₯ 26 | 14°38 | 3° 6 | 26° 8 | 15°50 | 12°49 | 10°16 | 0°56 | 3°42 | 22° 6 | 20°55 | 22°50 | 12°35 | T 24 |
| W25 | 4 15 44 | 2°51'16 | 21°50 | 16° 5 | 2°30 | 26°47 | 15°57 | 12°50 | 10°16 | 0°57 | 3°41 | 22°R 6 | 20°52 | 22°56 | 12°35 | W25 |
| T 26 | 4 19 41 | 3°52'06 | 4 ♀ 0 | 17°32 | 1°53 | 27°26 | 16° 3 | 12°51 | 10°16 | 0°59 | 3°40 | 22° 5 | 20°48 | 23° 3 | 12°35 | T 26 |
| F 27 | 4 23 37 | 4°52'58 | 15°58 | 19° 1 | 1°17 | 28° 5 | 16°10 | 12°52 | 10°16 | 1° 0 | 3°39 | 22° 3 | 20°45 | 23°10 | 12°36 | F 27 |
| S 28 | 4 27 34 | 5°53'50 | 27°51 | 20°30 | 0°42 | 28°44 | 16°16 | 12°53 | 10°17 | 1° 2 | 3°38 | 21°57 | 20°42 | 23°16 | 12°36 | S 28 |
| S 29 | 4 31 31 | 6°54'45 | 9 M .41 | 22° 0 | 0° 7 | 29°23 | 16°22 | 12°54 | 10°17 | 1° 3 | 3°37 | 21°49 | 20°39 | 23°23 | 12°36 | S 29 |
| M30 | 4 35 27 | 7 .7 55'40 | 21 M 31 | 23 M 30 | 29 M 33 | OM 2 | 16 M 28 | 12 米 56 | 10 ∺ 18 | 1≈ 5 | 3 9 36 | 21 米 38 | 20 米 36 | 23 M 30 | 12) 37 | M30 |

Delta T = 28.58 sec

Greg. Calendar

| DECEMBER 1671 GC | 00:00 UT |
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| DECEMBER 10/1 ac | 00.00 UI |

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| , | Р | v | v | Ç | ę, | Day |
|------|---------|-------------------|----------------|----------------|--------|----------------|-----------------|----------------|----------------|--------------|---------------|----------------|----------------|----------------|----------------|------|
| T 1 | 4 39 24 | 8 ∡ 756'36 | 3 ₹ 23 | 25 M 1 | 29°R 1 | 0 M .41 | 16 M)34 | 12 米 57 | 10 ∺ 18 | 1≈ 6 | 3°R34 | 21°R24 | 20) 33 | 23 M 37 | 12) 37 | T 1 |
| W 2 | 4 43 20 | 9°57'34 | 15°18 | 26°32 | 28M30 | 1°20 | 16°40 | 12°59 | 10°19 | 1° 8 | 3 9 33 | 21 米 9 | 20°29 | 23°43 | 12°37 | W 2 |
| T 3 | 4 47 17 | 10°58'33 | 27°18 | 28° 3 | 28° 1 | 1°59 | 16°46 | 13° 1 | 10°20 | 1° 9 | 3°32 | 20°55 | 20°26 | 23°50 | 12°38 | T 3 |
| F 4 | 4 51 13 | 11°59'32 | 9 궁 24 | 29°35 | 27°33 | 2°38 | 16°51 | 13° 2 | 10°20 | 1°11 | 3°31 | 20°41 | 20°23 | 23°57 | 12°39 | F 4 |
| S 5 | 4 55 10 | 13° 0'33 | 21°37 | 1 √ 7 | 27° 8 | 3°18 | 16°57 | 13° 4 | 10°21 | 1°13 | 3°30 | 20°30 | 20°20 | 24° 3 | 12°39 | S 5 |
| S 6 | 4 59 6 | 14° 1'33 | 3≈59 | 2°39 | 26°44 | 3°57 | 17° 2 | 13° 6 | 10°22 | 1°14 | 3°29 | 20°21 | 20°17 | 24°10 | 12°40 | S 6 |
| M 7 | 5 3 3 | 15° 2'35 | 16°33 | 4°11 | 26°23 | 4°36 | 17° 7 | 13° 9 | 10°23 | 1°16 | 3°28 | 20°16 | 20°14 | 24°17 | 12°41 | M 7 |
| T 8 | 5 7 0 | 16° 3'37 | 29°21 | 5°44 | 26° 4 | 5°15 | 17°12 | 13°11 | 10°24 | 1°18 | 3°27 | 20°14 | 20°10 | 24°24 | 12°42 | T 8 |
| W 9 | 5 10 56 | 17° 4'40 | 12 米 26 | 7°16 | 25°47 | 5°54 | 17°16 | 13°13 | 10°25 | 1°19 | 3°25 | 20°13 | 20° 7 | 24°30 | 12°42 | W 9 |
| T 10 | 5 14 53 | 18° 5'43 | 25°53 | 8°49 | 25°33 | 6°33 | 17°21 | 13°16 | 10°26 | 1°21 | 3°24 | 20°13 | 20° 4 | 24°37 | 12°43 | T 10 |
| F 11 | 5 18 49 | 19° 6'46 | 9 Υ 44 | 10°22 | 25°21 | 7°12 | 17°25 | 13°18 | 10°27 | 1°23 | 3°23 | 20°12 | 20° 1 | 24°44 | 12°44 | F 11 |
| S 12 | 5 22 46 | 20° 7'50 | 23°59 | 11°55 | 25°12 | 7°52 | 17°29 | 13°21 | 10°28 | 1°25 | 3°22 | 20° 9 | 19°58 | 24°50 | 12°45 | S 12 |
| S 13 | 5 26 42 | 21° 8'54 | 8 8 39 | 13°28 | 25° 5 | 8°31 | 17°33 | 13°24 | 10°29 | 1°27 | 3°21 | 20° 4 | 19°54 | 24°57 | 12°46 | S 13 |
| M14 | 5 30 39 | 22° 9'59 | 23°38 | 15° 1 | 25° 0 | 9°10 | 17°37 | 13°26 | 10°30 | 1°28 | 3°19 | 19°56 | 19°51 | 25° 4 | 12°48 | M14 |
| T 15 | 5 34 36 | 23°11'04 | 8Ⅱ49 | 16°35 | 24°D58 | 9°49 | 17°40 | 13°29 | 10°32 | 1°30 | 3°18 | 19°45 | 19°48 | 25°11 | 12°49 | T 15 |
| W16 | 5 38 32 | 24°12'09 | 24° 2 | 18° 8 | 24°59 | 10°29 | 17°44 | 13°33 | 10°33 | 1°32 | 3°17 | 19°34 | 19°45 | 25°17 | 12°50 | W16 |
| T 17 | 5 42 29 | 25°13'16 | 999 5 | 19°42 | 25° 2 | 11° 8 | 17°47 | 13°36 | 10°34 | 1°34 | 3°16 | 19°22 | 19°42 | 25°24 | 12°52 | T 17 |
| F 18 | 5 46 25 | 26°14'22 | 23°48 | 21°16 | 25° 7 | 11°47 | 17°50 | 13°39 | 10°36 | 1°36 | 3°15 | 19°12 | 19°39 | 25°31 | 12°53 | F 18 |
| S 19 | 5 50 22 | 27°15'29 | 8 Ω 5 | 22°50 | 25°15 | 12°26 | 17°53 | 13°42 | 10°37 | 1°38 | 3°13 | 19° 4 | 19°35 | 25°37 | 12°54 | S 19 |
| S 20 | 5 54 18 | 28°16'37 | 21°52 | 24°25 | 25°25 | 13° 6 | 17°56 | 13°46 | 10°39 | 1°40 | 3°12 | 18°59 | 19°32 | 25°44 | 12°56 | S 20 |
| M21 | 5 58 15 | 29°17'45 | 5 m)10 | 25°59 | 25°37 | 13°45 | 17°58 | 13°49 | 10°40 | 1°42 | 3°11 | 18°56 | 19°29 | 25°51 | 12°57 | M21 |
| T 22 | 6 2 11 | 0 궁 18'54 | 18° 1 | 27°34 | 25°52 | 14°24 | 18° 1 | 13°53 | 10°42 | 1°44 | 3°10 | 18°D56 | 19°26 | 25°58 | 12°59 | T 22 |
| W23 | 6 6 8 | 1°20'03 | 0 ჲ 29 | 29° 9 | 26° 8 | 15° 3 | 18° 3 | 13°57 | 10°44 | 1°46 | 3° 9 | 18°R56 | 19°23 | 26° 4 | 13° 1 | W23 |
| T 24 | 6 10 5 | 2°21'13 | 12°39 | 0 궁 45 | 26°27 | 15°43 | 18° 5 | 14° 0 | 10°45 | 1°48 | 3° 7 | 18°55 | 19°20 | 26°11 | 13° 2 | T 24 |
| F 25 | 6 14 1 | 3°22'23 | 24°37 | 2°20 | 26°47 | 16°22 | 18° 7 | 14° 4 | 10°47 | 1°50 | 3° 6 | 18°53 | 19°16 | 26°18 | 13° 4 | F 25 |
| S 26 | 6 17 58 | 4°23'34 | 6M29 | 3°56 | 27°10 | 17° 2 | 18° 8 | 14° 8 | 10°49 | 1°52 | 3° 5 | 18°49 | 19°13 | 26°24 | 13° 6 | S 26 |
| S 27 | 6 21 54 | 5°24'45 | 18°18 | 5°33 | 27°34 | 17°41 | 18°10 | 14°12 | 10°51 | 1°54 | 3° 4 | 18°42 | 19°10 | 26°31 | 13° 8 | S 27 |
| M28 | 6 25 51 | 6°25'56 | 0 才 9 | 7° 9 | 28° 0 | 18°20 | 18°11 | 14°16 | 10°52 | 1°56 | 3° 2 | 18°32 | 19° 7 | 26°38 | 13°10 | M28 |
| T 29 | 6 29 47 | 7°27'08 | 12° 4 | 8°46 | 28°28 | 19° 0 | 18°12 | 14°21 | 10°54 | 1°58 | 3° 1 | 18°19 | 19° 4 | 26°45 | 13°12 | T 29 |
| W30 | 6 33 44 | 8°28'20 | 2 <u>4</u> ° 5 | 1 <u>0</u> °24 | 28°58 | 19°39 | 18°13 | 14°25 | 10°56 | 2° 0 | 3° 0 | 18° 6 | 19° 1 | 26°51 | 13°14 | W30 |
| T 31 | 6 37 40 | 9 ට 29'31 | 6 ප 15 | 12 හි 1 | 29M29 | 20 M 18 | 18 M 13 | 14 米 29 | 10 ∺ 58 | 2≈ 3 | 2 9 59 | 17 ∺ 52 | 18 米 57 | 26M58 | 13 ∺ 16 | T 31 |

Delta T = 28.52 sec

JANUARY 1672 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q | ♂ | 4 | ħ |)Å(| ¥ | Р | ß | Ω | Ç | Q K | Day |
|--------------|-------------------|----------------------|-------------------------------------|----------------|----------------|-----------------|-----------------|----------------|----------------|--------------|--------------|-----------------|----------------|---------------------------|-----------------|--------------|
| F 1 | 6 41 37 | 10 る 30'43 | 18 る 33 | 13 る 40 | 0 才 1 | 20 M 58 | 18 M)14 | 14) 34 | 11) 0 | 2≈ 5 | 2°R58 | 17°R39 | 18 米 54 | 27 M 5 | 13 ∺ 18 | F 1 |
| S 2 | 6 45 34 | 11°31'54 | 1≈ 1 | 15°18 | 0°35 | 21°37 | 18°14 | 14°38 | 11° 2 | 2° 7 | 2956 | 17 米 29 | 18°51 | 27°11 | 13°20 | S 2 |
| S 3 | 6 49 30 | 12°33'06 | 13°38 | 16°57 | 1°11 | 22°17 | 18°R14 | 14°43 | 11° 5 | 2° 9 | 2°55 | 17°21 | 18°48 | 27°18 | 13°22 | S 3 |
| M 4 | 6 53 27 | 13°34'17 | 26°25 | 18°36 | 1°47 | 22°56 | 18°14 | 14°48 | 11° 7 | 2°11 | 2°54 | 17°16 | 18°45 | 27°25 | 13°24 | M 4 |
| T 5 | 6 57 23 | 14°35'27 | 9) €24 | 20°16 | 2°25 | 23°36 | 18°14 | 14°53 | 11° 9 | 2°13 | 2°53 | 17°14 | 18°41 | 27°32 | 13°27 | T 5 |
| W 6 | 7 1 20 7 5 16 | 15°36'37 | 22°37 6 ° 5 | 21°55 23°36 | 3° 5 3°45 | 24°15 | 18°13 18°12 | 14°57 15° 2 | 11°11 11°13 | 2°16 2°18 | 2°51 | 17°D14 17°15 | 18°38 18°35 | 27°38 | 13°29 13°31 | W 6 T 7 |
| T 7 F 8 | 7 5 16 7 9 13 | 16°37'46 17°38'55 | 19°49 | 25°16 | 4°27 | 24°54 25°34 | 18°12 18°11 | 15° 2 | 11°13 | 2°18 | 2°50 2°49 | 17°R15 | 18°33 | 27°45 27°52 | 13°34 | F 8 |
| S 9 | 7 13 9 | 17 38 33 18°40'03 | 3 8 52 | 25°16 26°57 | 5°10 | 25°34 26°13 | 18°10 | 15°13 | 11°18 | 2°22 | 2°48 | 17°14 | 18°29 | 27°58 | 13°36 | г о S 9 |
| | | | 18°13 | 28°38 | | | 18° 9 | | 11°21 | 2°25 | 2°47 | 17°11 | 18°26 | 28° 5 | 13°39 | S 10 |
| S 10 M11 | 7 17 6 7 21 3 | 19°41'10 20°42'16 | 18°13 2 ∏ 48 | 28°38 0≈19 | 5°53 6°38 | 26°53 27°32 | 18° 9 | 15°18 15°23 | 11°21 11°23 | 2°25 2°27 | 2°47 2°46 | 17°11 17° 5 | 18°26 18°22 | 28° 5 28°12 | 13°39 13°41 | M11 |
| T 12 | 7 24 59 | 20°42'10 21°43'22 | 17°35 | 2° 0 | 7°24 | 28°12 | 18° 6 | 15°28 | 11°25 | 2°29 | 2°44 | 16°57 | 18°19 | 28°19 | 13°44 | T 12 |
| W13 | 7 28 56 | 22°44'27 | 29524 | 3°42 | 8°11 | 28°51 | 18° 4 | 15°34 | 11°28 | 2°31 | 2°43 | 16°49 | 18°16 | 28°25 | 13°47 | W13 |
| T 14 | 7 32 52 | 23°45'32 | 17° 8 | 5°23 | 8°59 | 29°31 | 18° 2 | 15°39 | 11°31 | 2°34 | 2°42 | 16°40 | 18°13 | 28°32 | 13°49 | T 14 |
| F 15 | 7 36 49 | 24°46'36 | 1 Ω 40 | 7° 3 | 9°47 | 0 才 10 | 18° 0 | 15°45 | 11°33 | 2°36 | 2°41 | 16°32 | 18°10 | 28°39 | 13°52 | F 15 |
| S 16 | 7 40 45 | 25°47'39 | 15°51 | 8°44 | 10°37 | 0°50 | 17°57 | 15°50 | 11°36 | 2°38 | 2°40 | 16°26 | 18° 7 | 28°45 | 13°55 | S 16 |
| S 17 | 7 44 42 | 26°48'41 | 29°38 | 10°24 | 11°27 | 1°29 | 17°55 | 15°56 | 11°38 | 2°40 | 2°39 | 16°22 | 18° 3 | 28°52 | 13°58 | S 17 |
| M18 | 7 48 39 | 27°49'43 | 12 m 59 | 12° 2 | 12°18 | 2° 9 | 17°52 | 16° 2 | 11°41 | 2°43 | 2°38 | 16°D21 | 18° 0 | 28°59 | 14° 0 | M18 |
| T 19 | 7 52 35 | 28°50'45 | 25°54 | 13°40 | 13°10 | 2°48 | 17°49 | 16° 7 | 11°44 | 2°45 | 2°37 | 16°21 | 17°57 | 29° 6 | 14° 3 | T 19 |
| W20 | 7 56 32 | 29°51'46 | 8 ≏ 28 | 15°16 | 14° 2 | 3°28 | 17°46 | 16°13 | 11°46 | 2°47 | 2°36 | 16°23 | 17°54 | 29°12 | 14° 6 | W20 |
| T 21 | 8 0 28 | 0≈52'46 | 20°43 | 16°51 | 14°55 | 4° 7 | 17°42 | 16°19 | 11°49 | 2°49 | 2°34 | 16°24 | 17°51 | 29°19 | 14° 9 | T 21 |
| F 22 S 23 | 8 4 25 8 8 21 | 1°53'45 2°54'45 | 2M45 14°39 | 18°23 19°53 | 15°49 16°43 | 4°47 5°27 | 17°39 17°35 | 16°25 16°31 | 11°52 11°55 | 2°52 2°54 | 2°33 2°32 | 16°R24 16°24 | 17°47 17°44 | 29°26 29°32 | 14°12 14°15 | F 22 S 23 |
| | | | | | | | | | | | | | | | | |
| S 24 | 8 12 18 | 3°55'43 | 26°29 | 21°19 | 17°39 | 6° 6 | 17°31 | 16°37 | 11°58 | 2°56 | 2°31 | 16°21 | 17°41 | 29°39 | 14°18 | S 24 |
| M25 T 26 | 8 16 14 | 4°56'41 5°57'38 | 8 ∡ ⁷ 22 20°20 | 22°41 23°59 | 18°34 19°30 | 6°46 | 17°27 17°23 | 16°43 16°50 | 12° 1 12° 4 | 2°59 3° 1 | 2°30 | 16°16 16°10 | 17°38 17°35 | 29°46 29°53 | 14°21 14°24 | M25 T 26 |
| W27 | 8 20 11 8 24 8 | 6°58'34 | 20°20 2 ろ 27 | 25°12 | 20°27 | 7°25 8° 5 | 17°23 | 16°56 | 12° 4 | 3° 1 3° 3 | 2°29 2°28 | 16° 10 | 17°33 | 29°53 29°59 | 14°24 14°28 | W27 |
| T 28 | 8 28 4 | 7°59'29 | 14°45 | 26°18 | 20°27 | 8°45 | 17 18 17°14 | 10° 30° 17° 2 | 12° 9 | 3° 5 | 2°27 | 15°55 | 17°28 | 0 x ⁷ 6 | 14°28 | T 28 |
| F 29 | 8 32 1 | 9° 0'24 | 27°15 | 27°18 | 22°22 | 9°24 | 17° 9 | 17° 8 | 12°12 | 3° 8 | 2°26 | 15°48 | 17°25 | 0°13 | 14°34 | F 29 |
| S 30 | 8 35 57 | 10° 1'17 | 10≈ 0 | 28°10 | 23°21 | 10° 4 | 17° 4 | 17°15 | 12°15 | 3°10 | 2°25 | 15°43 | 17°22 | 0°19 | 14°37 | S 30 |
| S 31 | 8 39 54 | 11≈ 2'09 | 22≈57 | 28≈54 | 24 ~ 19 | 10 × 743 | 16 m 59 | 17) 21 | 12) 18 | 3≈12 | 2925 | 15 米 39 | 17 米 19 | 0 ∡ 726 | 14) (41 | S 31 |

Delta T = 28.47 sec

Greg. Calendar

FEBRUARY 1672 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | φ | ♂ | 4 | ħ |)ţ | 卉 | Р | ß | Ω | Ç | , k | Day |
|------|----------|--------------------|----------------|----------------|----------------|-----------------|-----------------|------------------|----------------|------|---------------|------------------|----------------|----------------|------------------|------|
| M 1 | 8 43 50 | 12≈ 3'00 | 6 ¥ 6 | 29≈29 | 25 × 19 | 11 × 23 | 16°R54 | 17 米 28 | 12) 22 | 3≈14 | 2°R24 | 15°R37 | 17 米 16 | 0 ≯ 33 | 14) (44 | M 1 |
| T 2 | 8 47 47 | 13° 3'49 | 19°28 | 29°54 | 26°18 | 12° 3 | 16 M p49 | 17°34 | 12°25 | 3°17 | 29523 | 15°D36 | 17°13 | 0°40 | 14°47 | T 2 |
| W 3 | 8 51 43 | 14° 4'37 | 3 ℃ 1 | 0 ∀ 8 | 27°18 | 12°42 | 16°43 | 17°41 | 12°28 | 3°19 | 2°22 | 15) (37 | 17° 9 | 0°46 | 14°50 | W 3 |
| T 4 | 8 55 40 | 15° 5'23 | 16°44 | 0°R12 | 28°19 | 13°22 | 16°37 | 17°48 | 12°31 | 3°21 | 2°21 | 15°39 | 17° 6 | 0°53 | 14°54 | T 4 |
| F 5 | 8 59 37 | 16° 6'08 | 0 8 37 | 0° 5 | 29°19 | 14° 2 | 16°32 | 17°54 | 12°34 | 3°23 | 2°20 | 15°40 | 17° 3 | 1° 0 | 14°57 | F 5 |
| S 6 | 9 3 33 | 17° 6'52 | 14°39 | 29≈48 | 0 궁 20 | 14°41 | 16°26 | 18° 1 | 12°37 | 3°26 | 2°19 | 15°R41 | 17° 0 | 1° 6 | 15° 1 | S 6 |
| S 7 | 9 7 30 | 18° 7'33 | 28°50 | 29°20 | 1°22 | 15°21 | 16°20 | 18° 8 | 12°40 | 3°28 | 2°18 | 15°41 | 16°57 | 1°13 | 15° 4 | S 7 |
| M 8 | 9 11 26 | 19° 8'13 | 13耳 7 | 28°42 | 2°24 | 16° 0 | 16°14 | 18°14 | 12°44 | 3°30 | 2°18 | 15°39 | 16°53 | 1°20 | 15° 8 | M 8 |
| T 9 | 9 15 23 | 20° 8'52 | 27°28 | 27°55 | 3°26 | 16°40 | 16° 7 | 18°21 | 12°47 | 3°32 | 2°17 | 15°36 | 16°50 | 1°27 | 15°11 | T 9 |
| W10 | 9 19 19 | 21° 9'28 | 119548 | 27° 1 | 4°28 | 17°20 | 16° 1 | 18°28 | 12°50 | 3°35 | 2°16 | 15°33 | 16°47 | 1°33 | 15°15 | W10 |
| T 11 | 9 23 16 | 22°10'03 | 26° 2 | 26° 1 | 5°31 | 17°59 | 15°54 | 18°35 | 12°53 | 3°37 | 2°15 | 15°29 | 16°44 | 1°40 | 15°18 | T 11 |
| F 12 | 9 27 12 | 23°10'36 | 10Ω 7 | 24°56 | 6°34 | 18°39 | 15°48 | 18°42 | 12°57 | 3°39 | 2°15 | 15°26 | 16°41 | 1°47 | 15°22 | F 12 |
| S 13 | 9 31 9 | 24°11'08 | 23°57 | 23°49 | 7°38 | 19°18 | 15°41 | 18°49 | 13° 0 | 3°41 | 2°14 | 15°24 | 16°38 | 1°54 | 15°25 | S 13 |
| S 14 | 9 35 6 | 25°11'38 | 7 m 30 | 22°41 | 8°42 | 19°58 | 15°34 | 18°56 | 13° 3 | 3°43 | 2°13 | 15°22 | 16°34 | 2° 0 | 15°29 | S 14 |
| M15 | 9 39 2 | 26°12'06 | 20°43 | 21°33 | 9°45 | 20°38 | 15°27 | 19° 3 | 13° 6 | 3°45 | 2°13 | 15°D22 | 16°31 | 2° 7 | 15°32 | M15 |
| T 16 | 9 42 59 | 27°12'33 | 3 ≏ 35 | 20°29 | 10°50 | 21°17 | 15°20 | 19°10 | 13°10 | 3°48 | 2°12 | 15°23 | 16°28 | 2°14 | 15°36 | T 16 |
| W17 | 9 46 55 | 28°12'58 | 16° 9 | 19°28 | 11°54 | 21°57 | 15°13 | 19°17 | 13°13 | 3°50 | 2°11 | 15°24 | 16°25 | 2°20 | 15°40 | W17 |
| T 18 | 9 50 52 | 29°13'22 | 28°27 | 18°32 | 12°59 | 22°37 | 15° 6 | 19°24 | 13°17 | 3°52 | 2°11 | 15°26 | 16°22 | 2°27 | 15°43 | T 18 |
| F 19 | 9 54 48 | 0) (13′45 | 10 M 32 | 17°42 | 14° 4 | 23°16 | 14°58 | 19°31 | 13°20 | 3°54 | 2°10 | 15°27 | 16°18 | 2°34 | 15°47 | F 19 |
| S 20 | 9 58 45 | 1°14'06 | 22°28 | 16°59 | 15° 9 | 23°56 | 14°51 | 19°39 | 13°23 | 3°56 | 2°10 | 15°28 | 16°15 | 2°41 | 15°51 | S 20 |
| S 21 | 10 241 | 2°14'26 | 4 ₹ 21 | 16°23 | 16°15 | 24°36 | 14°43 | 19°46 | 13°27 | 3°58 | 2° 9 | 15°R28 | 16°12 | 2°47 | 15°54 | S 21 |
| M22 | 10 638 | 3°14'45 | 16°15 | 15°54 | 17°20 | 25°15 | 14°36 | 19°53 | 13°30 | 4° 0 | 2° 9 | 15°28 | 16° 9 | 2°54 | 15°58 | M22 |
| T 23 | 10 10 35 | 4°15'01 | 28°14 | 15°32 | 18°26 | 25°55 | 14°28 | 20° 0 | 13°33 | 4° 2 | 2°8 | 15°27 | 16° 6 | 3° 1 | 16° 2 | T 23 |
| W24 | 10 14 31 | 5°15'17 | 10 궁 23 | 15°17 | 19°32 | 26°35 | 14°21 | 20° 8 | 13°37 | 4° 4 | 2°8 | 15°26 | 16° 3 | 3° 7 | 16° 5 | W24 |
| T 25 | 10 18 28 | 6°15'31 | 22°45 | 15°10 | 20°38 | 27°14 | 14°13 | 20°15 | 13°40 | 4° 6 | 2° 7 | 15°24 | 15°59 | 3°14 | 16° 9 | T 25 |
| F 26 | 10 22 24 | 7°15'43 | 5≈24 | 15°D 9 | 21°45 | 27°54 | 14° 5 | 20°22 | 13°44 | 4° 8 | 2° 7 | 15°23 | 15°56 | 3°21 | 16°13 | F 26 |
| S 27 | 10 26 21 | 8°15'53 | 18°21 | 15°14 | 22°51 | 28°33 | 13°58 | 20°30 | 13°47 | 4°10 | 2° 6 | 15°22 | 15°53 | 3°28 | 16°17 | S 27 |
| S 28 | 10 30 17 | 9°16'02 | 1 ∺ 36 | 15°26 | 23°58 | 29°13 | 13°50 | 20°37 | 13°51 | 4°12 | 2° 6 | 15°22 | 15°50 | 3°34 | 16°20 | S 28 |
| M29 | 10 34 14 | 10 米 16'09 | 15 米 8 | 15 ≈ 43 | 25 궁 5 | 29 × 753 | 13 M 42 | 20) (44 | 13 米 54 | 4≈14 | 2 95 6 | 15°D21 | 15) 47 | 3 ∡ 141 | 16) 24 | M29 |

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| T 1 | | | | | | | | ħ |)Å(| ¥ | Р | S. | C | Ç | ķ | Day |
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| | 10 38 10 | 11) 16'14 | 28 米 57 | 16≈ 5 | 26 ට 12 | 0 ප 32 | 13°R34 | 20 ∺ 52 | 13 ∺ 57 | 4≈16 | 2°R 5 | 15 ∺ 22 | 15) 44 | 3 ∡ 748 | 16 ∺ 28 | T 1 |
| | 10 42 7 | 12°16'16 | 12 Y 57 | 16°33 | 27°20 | 1°12 | 13 m 26 | 20°59 | 14° 1 | 4°18 | 295 5 | 15°22 | 15°40 | 3°54 | 16°32 | W 2 |
| _ | 10 46 4 | 13°16'17 | 27° 7 | 17° 5 | 28°27 | 1°51 | 13°19 | 21° 6 | 14° 4 | 4°20 | 2° 5 | 15°22 | 15°37 | 4° 1 | 16°35 | T 3 |
| | 10 50 0 | 14°16'16 | 11822 | 17°42 | 29°35 | 2°31 | 13°11 | 21°14 | 14° 8 | 4°22 | 2° 4 | 15°22 | 15°34 | 4° 8 | 16°39 | F 4 |
| S 5 | 10 53 57 | 15°16'13 | 25°39 | 18°23 | 0≈42 | 3°11 | 13° 3 | 21°21 | 14°11 | 4°23 | 2° 4 | 15°R22 | 15°31 | 4°15 | 16°43 | S 5 |
| | 10 57 53 | 16°16'07 | 9 Ⅱ 54 | 19° 7 | 1°50 | 3°50 | 12°55 | 21°29 | 14°15 | 4°25 | 2° 4 | 15°D22 | 15°28 | 4°21 | 16°47 | S 6 |
| | 11 1 50 | 17°15'59 | 24° 5 | 19°56 | 2°58 | 4°30 | 12°47 | 21°36 | 14°18 | 4°27 | 2° 4 | 15°22 | 15°24 | 4°28 | 16°51 | M 7 |
| - | 11 5 46 | 18°15'49 | 89910 | 20°47 | 4° 6 | 5° 9 | 12°39 | 21°43 | 14°21 | 4°29 | 2° 3 | 15°22 | 15°21 | 4°35 | 16°54 | T 8 |
| | 11 9 43 | 19°15'37 | 22° 6 | 21°42 | 5°14 | 5°49 | 12°32 | 21°51 | 14°25 | 4°31 | 2° 3 | 15°23 | 15°18 | 4°42 | 16°58 | W 9 |
| | 11 13 39 | 20°15'22 | 5 Ω 53 | 22°39 | 6°23 | 6°28 | 12°24 | 21°58 | 14°28 | 4°32 | 2° 3 | 15°23 | 15°15 | 4°48 | 17° 2 | T 10 |
| | 11 17 36 | 21°15'05 | 19°28 | 23°39 | 7°31 | 7° 8 | 12°16 | 22° 6 | 14°32 | 4°34 | 2° 3 | 15°24 | 15°12 | 4°55 | 17° 6 | F 11 |
| S 12 | 11 21 33 | 22°14'46 | 2 m 51 | 24°42 | 8°40 | 7°47 | 12° 9 | 22°13 | 14°35 | 4°36 | 2° 3 | 15°24 | 15° 9 | 5° 2 | 17° 9 | S 12 |
| S 13 | 11 25 29 | 23°14'25 | 16° 1 | 25°48 | 9°48 | 8°27 | 12° 1 | 22°21 | 14°39 | 4°37 | 2° 3 | 15°R24 | 15° 5 | 5° 8 | 17°13 | S 13 |
| M14 | 11 29 26 | 24°14'02 | 28°56 | 26°55 | 10°57 | 9° 6 | 11°54 | 22°28 | 14°42 | 4°39 | 2° 3 | 15°24 | 15° 2 | 5°15 | 17°17 | M14 |
| T 15 | 11 33 22 | 25°13'36 | 11 ≏ 37 | 28° 5 | 12° 6 | 9°46 | 11°46 | 22°35 | 14°45 | 4°41 | 2°D 3 | 15°23 | 14°59 | 5°22 | 17°21 | T 15 |
| | 11 37 19 | 26°13'09 | 24° 4 | 29°17 | 13°15 | 10°25 | 11°39 | 22°43 | 14°49 | 4°42 | 2° 3 | 15°22 | 14°56 | 5°29 | 17°24 | W16 |
| | 11 41 15 | 27°12'40 | 6 M .18 | 0 ∺ 31 | 14°24 | 11° 4 | 11°31 | 22°50 | 14°52 | 4°44 | 2° 3 | 15°20 | 14°53 | 5°35 | 17°28 | T 17 |
| _ | 11 45 12 | 28°12'09 | 18°23 | 1°47 | 15°33 | 11°44 | 11°24 | 22°58 | 14°56 | 4°45 | 2° 3 | 15°18 | 14°50 | 5°42 | 17°32 | F 18 |
| S 19 | 11 49 8 | 29°11'36 | 0 ₹ 20 | 3° 5 | 16°43 | 12°23 | 11°17 | 23° 5 | 14°59 | 4°47 | 2° 3 | 15°17 | 14°46 | 5°49 | 17°35 | S 19 |
| S 20 | 11 53 5 | 0 Υ 11'01 | 12°13 | 4°24 | 17°52 | 13° 3 | 11°10 | 23°13 | 15° 2 | 4°48 | 2° 3 | 15°15 | 14°43 | 5°55 | 17°39 | S 20 |
| | 11 57 1 | 1°10'25 | 24° 6 | 5°45 | 19° 2 | 13°42 | 11° 3 | 23°20 | 15° 6 | 4°50 | 2° 3 | 15°14 | 14°40 | 6° 2 | 17°43 | M21 |
| | 12 0 58 | 2° 9'47 | 6 ප 4 | 7° 8 | 20°11 | 14°21 | 10°56 | 23°27 | 15° 9 | 4°51 | 2° 3 | 15°D14 | 14°37 | 6° 9 | 17°47 | T 22 |
| | 12 4 55 | 3° 9'07 | 18°12 | 8°33 | 21°21 | 15° 1 | 10°49 | 23°35 | 15°12 | 4°53 | 2° 4 | 15°15 | 14°34 | 6°16 | 17°50 | W23 |
| | 12 8 51 | 4° 8'25 | 0≈34 | 9°59 | 22°31 | 15°40 | 10°42 | 23°42 | 15°16 | 4°54 | 2° 4 | 15°16 | 14°30 | 6°22 | 17°54 | T 24 |
| | 12 12 48 | 5° 7'41 | 13°14 | 11°27 | 23°40 | 16°19 | 10°36 | 23°49 | 15°19 | 4°55 | 2° 4 | 15°18 | 14°27 | 6°29 | 17°58 | F 25 |
| S 26 | 12 16 44 | 6° 6'56 | 26°15 | 12°56 | 24°50 | 16°59 | 10°29 | 23°57 | 15°22 | 4°57 | 2° 4 | 15°19 | 14°24 | 6°36 | 18° 1 | S 26 |
| S 27 | 12 20 41 | 7° 6'08 | 9) 40 | 14°27 | 26° 0 | 17°38 | 10°23 | 24° 4 | 15°25 | 4°58 | 2° 4 | 15°R20 | 14°21 | 6°43 | 18° 5 | S 27 |
| - | 12 24 37 | 8° 5'19 | 23°29 | 15°59 | 27°10 | 18°17 | 10°17 | 24°11 | 15°29 | 4°59 | 2° 5 | 15°20 | 14°18 | 6°49 | 18° 8 | M28 |
| | 12 28 34 | 9° 4'27 | 7 Υ 38 | 17°33 | 28°20 | 18°56 | 10°11 | 24°19 | 15°32 | 5° 1 | 2° 5 | 15°18 | 14°15 | 6°56 | 18°12 | T 29 |
| | 12 32 30 | 10° 3'34 | 22° 6 | 19° 8 | 29°31 | 1 <u>9</u> °36 | 10° 5 | 24°26 | 15°35 | 5° 2 | 2° 5 | 15°16 | 14°11 | 7° 3 | 18°16 | W30 |
| T 31 | 12 36 27 | 11 ° 2'38 | 6 8 45 | 20 ∺ 45 | 0 ∺ 41 | 20 ට 15 | 9 m 59 | 24 米 33 | 15 ∺ 38 | 5≈ 3 | 295 6 | 15 ∺ 13 | 14 ∺ 8 | 7 ,₹ 9 | 18 米 19 | T 31 |

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Greg. Calendar

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| Day | Sid.t | \odot | Ŋ | φ | Ϋ́ | ď | 4 | ħ |)∤(| ¥ | 2 | ß | Ω | £ | δ | Day |
|--------------|----------------------|------------------------------|---------------------------------|-------------------------|-----------------------|-----------------------|-----------------|-------------------------|------------------------|-----------------------|-----------------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------|
| F 1 | 12 40 24 | 12 ° 1'41 | 21828 | 22) (24 | 1) (51 | 20る54 | 9°R53 | 24) (41 | 15) (41 | 5≈ 4 | 295 6 | 15°R 9 | 14) 5 | 7 √ 16 | 18) 23 | F 1 |
| S 2 | 12 44 20 | 13° 0'41 | 6 I 8 | 24° 3 | 3° 2 | 21°33 | 9 m 47 | 24°48 | 15°45 | 5° 5 | 2° 6 | 15 ¥ 5 | 14° 2 | 7°23 | 18°26 | S 2 |
| S 3 | 12 48 17 | 13°59'39 | 20°39 | 25°45 | 4°12 | 22°12 | 9°42 | 24°55 | 15°48 | 5° 6 | 2° 7 | 15° 2 | 13°59 | 7°30 | 18°30 | S 3 |
| M 4 | 12 52 13 | 14°58'34 | 4957 | 27°27 | 5°22 | 22°51 | 9°37 | 25° 2 | 15°51 | 5° 8 | 2° 7 | 15° 1 | 13°55 | 7°36 | 18°33 | M 4 |
| T 5 | 12 56 10 | 15°57'28 | 18°59 | 29°12 | 6°33 | 23°30 | 9°31 | 25° 9 | 15°54 | 5° 9 | 2° 8 | 15°D 0 | 13°52 | 7°43 | 18°37 | T 5 |
| W 6 | 13 0 6 | 16°56'19 | 2 Ω 45 | 0 Υ 57 | 7°44 | 24° 9 | 9°26 | 25°16 | 15°57 | 5°10 | 2°8 | 15° 1 | 13°49 | 7°50 | 18°40 | W 6 |
| T 7 | 13 4 3 | 17°55'07 | 16°13 | 2°45 | 8°54 | 24°48 | 9°22 | 25°23 | 16° 0 | 5°11 | 2° 9 | 15° 3 | 13°46 | 7°56 | 18°43 | T 7 |
| F 8 | 13 7 59 | 18°53'53 | 29°27 | 4°33 | 10° 5 | 25°27 | 9°17 | 25°30 | 16° 3 | 5°11 | 2° 9 | 15° 4 | 13°43 | 8° 3 | 18°47 | F 8 |
| S 9 | 13 11 56 | 19°52'37 | 12 m 26 | 6°24 | 11°16 | 26° 5 | 9°12 | 25°38 | 16° 6 | 5°12 | 2°10 | 15°R 5 | 13°40 | 8°10 | 18°50 | S 9 |
| S 10 | 13 15 53 | 20°51'19 | 25°13 | 8°16 | 12°26 | 26°44 | 9° 8 | 25°45 | 16° 9 | 5°13 | 2°10 | 15° 5 | 13°36 | 8°17 | 18°53 | S 10 |
| M11 | 13 19 49 | 21°49'59 | 7 ≏ 48 | 10° 9 | 13°37 | 27°23 | 9° 4 | 25°51 | 16°12 | 5°14 | 2°11 | 15° 2 | 13°33 | 8°23 | 18°57 | M11 |
| T 12 | 13 23 46 | 22°48'36 | 20°13 | 12° 4 | 14°48 | 28° 2 | 9° 0 | 25°58 | 16°15 | 5°15 | 2°12 | 14°58 | 13°30 | 8°30 | 19° 0 | T 12 |
| W13 | 13 27 42 | 23°47'12 | 2M29 | 14° 1 | 15°59 | 28°40 | 8°56 | 26° 5 | 16°18 | 5°16 | 2°12 | 14°53 | 13°27 | 8°37 | 19° 3 | W13 |
| T 14 | 13 31 39 | 24°45'46 | 14°36 | 15°59 | 17°10 | 29°19 | 8°52 | 26°12 | 16°21 | 5°17 | 2°13 | 14°46 | 13°24 | 8°44 | 19° 6 | T 14 |
| F 15 | 13 35 35 | 25°44'18 | 26°37 | 17°58 | 18°21 | 29°58 | 8°49 | 26°19 | 16°23 | 5°17 | 2°14 | 14°38 | 13°21 | 8°50 | 19°10 | F 15 |
| S 16 | 13 39 32 | 26°42'48 | 8 ₹ 32 | 19°59 | 19°32 | 0≈36 | 8°45 | 26°26 | 16°26 | 5°18 | 2°14 | 14°31 | 13°17 | 8°57 | 19°13 | S 16 |
| S 17 | 13 43 28 | 27°41'17 | 20°24 | 22° 2 | 20°43 | 1°15 | 8°42 | 26°33 | 16°29 | 5°19 | 2°15 | 14°24 | 13°14 | 9° 4 | 19°16 | S 17 |
| M18 | 13 47 25 | 28°39'43 | 2 ට 17 | 24° 5 | 21°54 | 1°53 | 8°39 | 26°39 | 16°32 | 5°19 | 2°16 | 14°19 | 13°11 | 9°10 | 19°19 | M18 |
| T 19 | 13 51 22 | 29°38'09 | 14°14 | 26°10 | 23° 5 | 2°32 | 8°36 | 26°46 | 16°35 | 5°20 | 2°17 | 14°15 | 13° 8 | 9°17 | 19°22 | T 19 |
| W20 | 13 55 18 | 0836'32 | 26°19 | 28°17 | 24°17 | 3°10 | 8°34 | 26°53 | 16°37 | 5°20 | 2°17 | 14°D14 | 13° 5 | 9°24 | 19°25 | W20 |
| T 21 | 13 59 15 | 1°34'54 | 8 ≈ 38 | 0824 | 25°28 | 3°48 | 8°31 | 26°59 | 16°40 | 5°21 | 2°18 | 14°14 | 13° 1 | 9°31 | 19°28 | T 21 |
| F 22 | 14 3 11 | 2°33'14 | 21°14 | 2°32 | 26°39 | 4°27 | 8°29 | 27° 6 | 16°43 | 5°22 | 2°19 | 14°15 | 12°58 | 9°37 | 19°31 | F 22 S 23 |
| S 23 | 14 7 8 | 3°31'33 | 4 光 13 | 4°40 | 27°51 | 5° 5 | 8°27 | 27°12 | 16°45 | 5°22 | 2°20 | 14°16 | 12°55 | 9°44 | 19°34 | |
| S 24 | 14 11 4 | 4°29'50 | 17°38 | 6°49 | 29° 2 | 5°43 | 8°25 | 27°19 | 16°48 | 5°22 | 2°21 | 14°R17 | 12°52 | 9°51 | 19°37 | S 24 |
| M25 | 14 15 1 | 5°28'06 | 1 Y 31 | 8°59 | 0 Υ 13 | 6°21 | 8°23 | 27°25 | 16°50 | 5°23 | 2°22 | 14°15 | 12°49 | 9°57 | 19°40 | M25 |
| T 26 | 14 18 57 | 6°26'20 | 15°50 | 11° 8 | 1°25 | 6°59 | 8°21 | 27°31 | 16°53 | 5°23 | 2°23 | 14°12 | 12°46 | 10° 4 | 19°43 | T 26 |
| W27 | 14 22 54 | 7°24'32 | 0833 | 13°17 | 2°36 | 7°37 | 8°20 | 27°38 | 16°55 | 5°24 | 2°23 | 14° 6 | 12°42 | 10°11 | 19°45 | W27 |
| T 28 | 14 26 51 | 8°22'43 | 15°33 | 15°25 | 3°48 | 8°15 | 8°19 | 27°44 | 16°58 | 5°24 | 2°24 | 13°59 | 12°39 | 10°18 | 19°48 | T 28 |
| F 29 S 30 | 14 30 47 14 34 44 | 9°20'52 10 8 18'59 | 0 Ⅱ 40 15 Ⅱ 44 | 17°33 19 8 39 | 4°59 6 Υ 11 | 8°53 9 ≈ 31 | 8°18 | 27°50 27 ¥ 56 | 17° 0 17 ₩ 3 | 5°24 5 ≈ 24 | 2°25 2 © 26 | 13°50 13) (42 | 12°36 12 ¥ 33 | 10°24 10 × 31 | 19°51 19 ¥ 54 | F 29 S 30 |
| 3 30 | 14 34 44 | 1001839 | 13Д44 | 19039 | 0 1 11 | 9≈31 | 8 m) 17 | 2/30 | 1/75 3 | <i>>≈</i> 24 | 250 | 137(42 | 127733 | 10,8,21 | 197(34 | 3 30 |

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|--|--|---|---|--|---|
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 13°27 13°D27 13°27 13°R27 13°27 13°25 13°21 13°13 13° 4 12°52 | 12°23 12°20 12°17 12°14 12°11 12° 7 12° 4 12° 1 | 10°51 10°58 11° 5 11°11 11°18 11°25 11°32 | 20° 1 20° 4 20° 7 20° 9 20°11 20°14 20°16 | T 3 W 4 T 5 F 6 S 7 S 8 M 9 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 13°D27 13°27 13°R27 13°27 13°25 13°21 13°13 13° 4 12°52 | 12°20 12°17 12°14 12°11 12° 7 12° 4 12° 1 | 10°58 11° 5 11°11 11°18 11°25 11°32 | 20° 4 20° 7 20° 9 20°11 20°14 20°16 | W 4 T 5 F 6 S 7 S 8 M 9 |
| T 5 14 54 26 15° 9'07 26°27 29°41 12° 9 12°38 8°15 28°27 17°14 5°25 2°31 F 6 14 58 23 16° 7'03 9m29 1 II 34 13°21 13°15 8°16 28°32 17°16 5°25 2°32 S 7 15 2 20 17° 4'57 22°14 3°25 14°32 13°52 8°16 28°38 17°18 5°R25 2°34 S 8 15 6 16 18° 2'49 4£45 5°12 15°44 14°29 8°17 28°44 17°20 5°25 2°35 M 9 15 10 13 19° 0'39 17° 5 6°56 16°56 15° 6 8°18 28°50 17°22 5°25 2°36 T 10 15 14 9 19°58'28 29°17 8°37 18° 8 15°43 8°18 28°55 17°24 5°25 2°37 | 13°27 13°R27 13°27 13°25 13°21 13°13 13° 4 12°52 | 12°17 12°14 12°11 12° 7 12° 4 12° 1 | 11° 5 11°11 11°18 11°25 11°32 | 20° 7 20° 9 20°11 20°14 20°16 | T 5 F 6 S 7 S 8 M 9 |
| F 6 14 58 23 16° 7'03 9\(\pi\)29 1\(\mathbb{H}\)34 13°21 13°15 8°16 28°32 17°16 5°25 2°32 S 7 15 2 20 17° 4'57 22°14 3°25 14°32 13°52 8°16 28°38 17°18 5°R25 2°34 S 8 15 6 16 18° 2'49 4\(\Omega\)45 5°12 15°44 14°29 8°17 28°44 17°20 5°25 2°35 M 9 15 10 13 19° 0'39 17° 5 6°56 16°56 15° 6 8°18 28°50 17°22 5°25 2°36 T 10 15 14 9 19°58'28 29°17 8°37 18° 8 15°43 8°18 28°55 17°24 5°25 2°37 | 13°R27 13°27 13°25 13°21 13°13 13° 4 12°52 | 12°14 12°11 12° 7 12° 4 12° 1 | 11°11 11°18 11°25 11°32 | 20° 9 20°11 20°14 20°16 | F 6 S 7 S 8 M 9 |
| S 7 15 2 20 17° 4'57 22°14 3°25 14°32 13°52 8°16 28°38 17°18 5°R25 2°34 S 8 15 6 16 18° 2'49 4\(\Omega\)45 5°12 15°44 14°29 8°17 28°44 17°20 5°25 2°35 M 9 15 10 13 19° 0'39 17° 5 6°56 16°56 15° 6 8°18 28°50 17°22 5°25 2°36 T 10 15 14 9 19°58'28 29°17 8°37 18° 8 15°43 8°18 28°55 17°24 5°25 2°37 | 13°27 13°25 13°21 13°13 13° 4 12°52 | 12°11 12° 7 12° 4 12° 1 | 11°18 11°25 11°32 | 20°11 20°14 20°16 | S 7 S 8 M 9 |
| S 8 15 6 16 18° 2'49 4\(\Omega\$45\) 5°12 15°44 14°29 8°17 28°44 17°20 5°25 2°35 M 9 15 10 13 19° 0'39 17° 5 6°56 16°56 15° 6 8°18 28°50 17°22 5°25 2°36 T 10 15 14 9 19°58'28 29°17 8°37 18° 8 15°43 8°18 28°55 17°24 5°25 2°37 | 13°25 13°21 13°13 13° 4 12°52 | 12° 7 12° 4 12° 1 | 11°25 11°32 | 20°14 20°16 | S 8 M 9 |
| M 9 15 10 13 19° 0'39 17° 5 6°56 16°56 15° 6 8°18 28°50 17°22 5°25 2°36 T 10 15 14 9 19°58'28 29°17 8°37 18° 8 15°43 8°18 28°55 17°24 5°25 2°37 | 13°21 13°13 13° 4 12°52 | 12° 4 12° 1 | 11°32 | 20°16 | M 9 |
| T 10 15 14 9 19°58'28 29°17 8°37 18° 8 15°43 8°18 28°55 17°24 5°25 2°37 | 13°13 13° 4 12°52 | 12° 1 | _ | | |
| | 13° 4 12°52 | | 11°38 | | |
| W11 15 18 6 20°56'15 11M21 10°15 19°20 16°20 8°20 29° 1 17°26 5°25 2°38 | 12°52 | 11059 | | 20°18 | T 10 |
| | _ | | 11°45 | 20°21 | W11 |
| T 12 15 22 2 21°54'01 23°21 11°50 20°32 16°57 8°21 29° 6 17°28 5°25 2°39 | | 11°55 | 11°52 | 20°23 | T 12 |
| F 13 15 25 59 22°51'46 5\$\star\$16 13°21 21°43 17°33 8°23 29°12 17°30 5°25 2°40 | 12°39 | 11°52 | 11°59 | 20°25 | F 13 |
| S 14 15 29 55 23°49'29 17° 9 14°48 22°55 18°10 8°24 29°17 17°32 5°24 2°42 | 12°26 | 11°48 | 12° 5 | 20°27 | S 14 |
| S 15 15 33 52 24°47'11 29° 2 16°12 24° 7 18°46 8°26 29°22 17°34 5°24 2°43 | 12°15 | 11°45 | 12°12 | 20°29 | S 15 |
| M16 15 37 49 25°44'51 10 3 55 17°33 25°19 19°22 8°28 29°27 17°35 5°24 2°44 | 12° 5 | 11°42 | 12°19 | 20°31 | M16 |
| T 17 15 41 45 26°42'31 22°53 18°50 26°31 19°58 8°30 29°33 17°37 5°24 2°45 | 11°58 | 11°39 | 12°25 | 20°33 | T 17 |
| W18 15 45 42 27°40'09 4\infty58 20° 3 27°43 20°34 8°33 29°38 17°39 5°23 2°47 | 11°54 | 11°36 | 12°32 | 20°35 | W18 |
| T 19 15 49 38 28°37'47 17°15 21°13 28°55 21°10 8°35 29°43 17°40 5°23 2°48 | 11°52 | 11°33 | 12°39 | 20°37 | T 19 |
| F 20 15 53 35 29°35'23 29°48 22°18 08 7 21°46 8°38 29°48 17°42 5°22 2°49 | 11°D51 | 11°29 | 12°46 | 20°39 | F 20 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 11°R52 | 11°26 | 12°52 | 20°41 | S 21 |
| S 22 16 128 1°30'33 26° 2 24°18 2°31 22°57 8°44 29°57 17°45 5°22 2°52 | 11°51 | 11°23 | 12°59 | 20°42 | S 22 |
| M23 16 5 24 2°28'07 9\(nabla 50 25\)°13 3°44 23°32 8°47 0\(nabla 2 17\)°46 5°21 2°53 | 11°49 | 11°20 | 13° 6 | 20°44 | M23 |
| T 24 16 9 21 3°25'39 24° 7 26° 3 4°56 24° 7 8°51 0° 7 17°48 5°20 2°54 | 11°44 | 11°17 | 13°12 | 20°46 | T 24 |
| W25 16 13 18 4°23'11 8\(\overline{8} 52 \) 26°49 6° 8 24°42 8°54 0°11 17°49 5°20 2°56 | 11°37 | 11°13 | 13°19 | 20°47 | W25 |
| T 26 16 17 14 5°20'42 23°57 27°31 7°20 25°17 8°58 0°16 17°51 5°19 2°57 | 11°27 | 11°10 | 13°26 | 20°49 | T 26 |
| F 27 16 21 11 6°18'13 9 I 14 28° 8 8°32 25°52 9° 2 0°20 17°52 5°19 2°58 | 11°17 | 11° 7 | 13°33 | 20°50 | F 27 |
| S 28 16 25 7 7°15'42 24°32 28°41 9°45 26°27 9° 6 0°25 17°53 5°18 3° 0 | 11° 6 | 11° 4 | 13°39 | 20°52 | S 28 |
| S 29 16 29 4 8°13'10 9539 29°10 10°57 27° 1 9°10 0°29 17°54 5°17 3° 1 | 10°57 | 11° 1 | 13°46 | 20°53 | S 29 |
| M30 16 33 0 9°10'37 24°26 29°35 12° 9 27°35 9°15 0°33 17°55 5°17 3° 2 | | 10°58 | 13°53 | 20°54 | M30 |
| T31 16 36 57 10∏ 8′02 8Ω47 29∏54 13⊌21 28∞ 9 9∭19 0Y37 17₩56 5∞16 3© 4 | 10) (45 | 10) € 54 | 14 ₹ 0 | 20 米 56 | T 31 |

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| W 1 | 16 40 54 | 11 II 5'27 | 22 Ω 41 | 09510 | 14834 | 28≈43 | 9 m 24 | 0 Υ 41 | 17) (57 | 5°R15 | 3 9 5 | 10°R43 | 10 米 51 | 14 ₹ 6 | 20) 57 | W 1 |
| T 2 | 16 44 50 | 12° 2'50 | 6MD 6 | 0°20 | 15°46 | 29°16 | 9°29 | 0°45 | 17°58 | 5≈14 | 3° 7 | 10) 42 | 10°48 | 14°13 | 20°58 | T 2 |
| F 3 | 16 48 47 | 13° 0'12 | 19° 7 | 0°26 | 16°58 | 29°50 | 9°34 | 0°49 | 17°59 | 5°14 | 3° 8 | 10°42 | 10°45 | 14°20 | 20°59 | F 3 |
| S 4 | 16 52 43 | 13°57'33 | 1 ≏ 48 | 0°R28 | 18°11 | 0 ∺ 23 | 9°39 | 0°53 | 18° 0 | 5°13 | 3° 9 | 10°41 | 10°42 | 14°26 | 21° 0 | S 4 |
| S 5 | 16 56 40 | 14°54'53 | 14°12 | 0°25 | 19°23 | 0°56 | 9°44 | 0°56 | 18° 1 | 5°12 | 3°11 | 10°39 | 10°39 | 14°33 | 21° 1 | S 5 |
| M 6 | 17 0 36 | 15°52'12 | 26°23 | 0°17 | 20°35 | 1°29 | 9°50 | 1° 0 | 18° 2 | 5°11 | 3°12 | 10°34 | 10°35 | 14°40 | 21° 2 | M 6 |
| T 7 | 17 433 | 16°49'30 | 8M26 | 0° 6 | 21°48 | 2° 1 | 9°55 | 1° 4 | 18° 3 | 5°10 | 3°14 | 10°26 | 10°32 | 14°47 | 21° 3 | T 7 |
| W 8 | 17 8 29 | 17°46'47 | 20°24 | 29耳50 | 23° 0 | 2°34 | 10° 1 | 1° 7 | 18° 3 | 5° 9 | 3°15 | 10°16 | 10°29 | 14°53 | 21° 4 | W 8 |
| T 9 | 17 12 26 | 18°44'04 | 2 ₹ 18 | 29°30 | 24°13 | 3° 6 | 10° 7 | 1°10 | 18° 4 | 5° 8 | 3°17 | 10° 3 | 10°26 | 15° 0 | 21° 5 | T 9 |
| F 10 | 17 16 23 | 19°41'20 | 14°11 | 29° 7 | 25°25 | 3°38 | 10°13 | 1°14 | 18° 5 | 5° 7 | 3°18 | 9°50 | 10°23 | 15° 7 | 21° 6 | F 10 |
| S 11 | 17 20 19 | 20°38'35 | 26° 3 | 28°41 | 26°38 | 4° 9 | 10°19 | 1°17 | 18° 5 | 5° 6 | 3°19 | 9°36 | 10°19 | 15°14 | 21° 6 | S 11 |
| S 12 | 17 24 16 | 21°35'50 | 7 궁 58 | 28°12 | 27°50 | 4°41 | 10°26 | 1°20 | 18° 6 | 5° 5 | 3°21 | 9°24 | 10°16 | 15°20 | 21° 7 | S 12 |
| M13 | 17 28 12 | 22°33'04 | 19°55 | 27°41 | 29° 3 | 5°12 | 10°32 | 1°23 | 18° 6 | 5° 4 | 3°22 | 9°14 | 10°13 | 15°27 | 21° 7 | M13 |
| T 14 | 17 32 9 | 23°30'18 | 1≈58 | 27° 9 | 0 耳 15 | 5°43 | 10°39 | 1°26 | 18° 7 | 5° 3 | 3°24 | 9° 6 | 10°10 | 15°34 | 21° 8 | T 14 |
| W15 | 17 36 5 | 24°27'31 | 14° 8 | 26°35 | 1°28 | 6°14 | 10°45 | 1°29 | 18° 7 | 5° 2 | 3°25 | 9° 1 | 10° 7 | 15°40 | 21° 8 | W15 |
| T 16 | 17 40 2 | 25°24'45 | 26°28 | 26° 0 | 2°41 | 6°44 | 10°52 | 1°31 | 18° 7 | 5° 1 | 3°27 | 8°59 | 10° 4 | 15°47 | 21° 9 | T 16 |
| F 17 | 17 43 58 | 26°21'58 | 9 米 3 | 25°25 | 3°53 | 7°14 | 10°59 | 1°34 | 18° 8 | 5° 0 | 3°28 | 8°D58 | 10° 0 | 15°54 | 21° 9 | F 17 |
| S 18 | 17 47 55 | 27°19'11 | 21°57 | 24°51 | 5° 6 | 7°44 | 11° 6 | 1°37 | 18° 8 | 4°58 | 3°30 | 8°R58 | 9°57 | 16° 1 | 21°10 | S 18 |
| S 19 | 17 51 52 | 28°16'23 | 5 Υ 12 | 24°18 | 6°19 | 8°13 | 11°14 | 1°39 | 18° 8 | 4°57 | 3°31 | 8°58 | 9°54 | 16° 7 | 21°10 | S 19 |
| M20 | 17 55 48 | 29°13'36 | 18°53 | 23°47 | 7°31 | 8°43 | 11°21 | 1°41 | 18° 8 | 4°56 | 3°33 | 8°57 | 9°51 | 16°14 | 21°10 | M20 |
| T 21 | 17 59 45 | 09510'49 | 3 8 1 | 23°18 | 8°44 | 9°12 | 11°29 | 1°44 | 18° 8 | 4°55 | 3°34 | 8°53 | 9°48 | 16°21 | 21°10 | T 21 |
| W22 | 18 3 41 | 1° 8'02 | 17°36 | 22°52 | 9°57 | 9°40 | 11°36 | 1°46 | 18°R 8 | 4°53 | 3°36 | 8°47 | 9°45 | 16°27 | 21°10 | W22 |
| T 23 | 18 7 38 | 2° 5'15 | 2 ∏ 32 | 22°29 | 11°10 | 10° 8 | 11°44 | 1°48 | 18° 8 | 4°52 | 3°37 | 8°39 | 9°41 | 16°34 | 21°R10 | T 23 |
| F 24 | 18 11 34 | 3° 2'28 | 17°43 | 22°10 | 12°22 | 10°36 | 11°52 | 1°50 | 18° 8 | 4°51 | 3°39 | 8°30 | 9°38 | 16°41 | 21°10 | F 24 |
| S 25 | 18 15 31 | 3°59'41 | 2958 | 21°55 | 13°35 | 11° 4 | 12° 0 | 1°52 | 18° 8 | 4°50 | 3°40 | 8°21 | 9°35 | 16°48 | 21°10 | S 25 |
| S 26 | 18 19 27 | 4°56'54 | 18° 7 | 21°44 | 14°48 | 11°31 | 12° 8 | 1°53 | 18° 8 | 4°48 | 3°42 | 8°13 | 9°32 | 16°54 | 21°10 | S 26 |
| M27 | 18 23 24 | 5°54'07 | 2 Ω 59 | 21°37 | 16° 1 | 11°58 | 12°16 | 1°55 | 18° 8 | 4°47 | 3°43 | 8° 6 | 9°29 | 17° 1 | 21°10 | M27 |
| T 28 | 18 27 21 | 6°51'20 | 17°28 | 21°D35 | 17°14 | 12°24 | 12°24 | 1°57 | 18° 7 | 4°45 | 3°45 | 8° 2 | 9°25 | 17° 8 | 21°10 | T 28 |
| W29 | 18 31 17 | 7°48'32 | 1 m) 28 | 21°38 | 18°27 | 12°50 | 12°33 | 1°58 | 18° 7 | 4°44 | 3°46 | 8° 1 | 9°22 | 17°15 | 21° 9 | W29 |
| T 30 | 18 35 14 | 8945'44 | 15 m) 0 | 21 II 46 | 19 Ⅱ 40 | 13 米 15 | 12 Mp 42 | 1 Υ 59 | 18 米 7 | 4≈43 | 39548 | 8°D 1 | 9 米 19 | 17 ₹ 21 | 21 米 9 | T 30 |

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| F 1 | 18 39 10 | 99542'55 | 28Mp 6 | 21耳59 | 20耳53 | 13){ 40 | 12 m 50 | 2 Υ 1 | 18°R 6 | 4°R41 | 39549 | 8) 1 | 9) 16 | 17 ∡ 728 | 21°R 9 | F 1 |
| S 2 | 18 43 7 | 10°40'07 | 10 ≏ 48 | 22°17 | 22° 6 | 14° 5 | 12°59 | 2° 2 | 18 ∺ 6 | 4≈40 | 3°51 | 8°R 2 | 9°13 | 17°35 | 21 米 8 | S 2 |
| S 3 | 18 47 3 | 11°37'18 | 23°12 | 22°41 | 23°19 | 14°30 | 13° 8 | 2° 3 | 18° 5 | 4°38 | 3°52 | 8° 1 | 9°10 | 17°41 | 21° 8 | S 3 |
| M 4 | 18 51 0 | 12°34'29 | 5 M 22 | 23° 9 | 24°32 | 14°53 | 13°17 | 2° 4 | 18° 5 | 4°37 | 3°54 | 7°58 | 9° 6 | 17°48 | 21° 7 | M 4 |
| T 5 | 18 54 56 | 13°31'41 | 17°22 | 23°43 | 25°45 | 15°17 | 13°26 | 2° 5 | 18° 4 | 4°35 | 3°55 | 7°54 | 9° 3 | 17°55 | 21° 7 | T 5 |
| W 6 | 18 58 53 | 14°28'52 | 29°16 | 24°21 | 26°58 | 15°40 | 13°35 | 2° 6 | 18° 4 | 4°34 | 3°57 | 7°47 | 9° 0 | 18° 2 | 21° 6 | W 6 |
| T 7 | 19 2 50 | 15°26'03 | 11 ~ 8 | 25° 5 | 28°11 | 16° 2 | 13°44 | 2° 6 | 18° 3 | 4°32 | 3°58 | 7°38 | 8°57 | 18° 8 | 21° 5 | T 7 |
| F 8 | 19 6 46 | 16°23'15 | 23° 1 | 25°53 | 29°24 | 16°24 | 13°54 | 2° 7 | 18° 2 | 4°31 | 3°59 | 7°29 | 8°54 | 18°15 | 21° 4 | F 8 |
| S 9 | 19 10 43 | 17°20'26 | 4 궁 56 | 26°47 | 0937 | 16°46 | 14° 3 | 2° 7 | 18° 1 | 4°29 | 4° 1 | 7°19 | 8°51 | 18°22 | 21° 4 | S 9 |
| S 10 | 19 14 39 | 18°17'38 | 16°56 | 27°45 | 1°51 | 17° 7 | 14°13 | 2° 8 | 18° 1 | 4°28 | 4° 2 | 7°11 | 8°47 | 18°29 | 21° 3 | S 10 |
| M11 | 19 18 36 | 19°14'51 | 29° 1 | 28°49 | 3° 4 | 17°27 | 14°23 | 2° 8 | 18° 0 | 4°26 | 4° 4 | 7° 4 | 8°44 | 18°35 | 21° 2 | M11 |
| T 12 | 19 22 32 | 20°12'03 | 11≈14 | 29°57 | 4°17 | 17°47 | 14°32 | 2° 8 | 17°59 | 4°25 | 4° 5 | 6°59 | 8°41 | 18°42 | 21° 1 | T 12 |
| W13 | 19 26 29 | 21° 9'17 | 23°35 | 19510 | 5°30 | 18° 6 | 14°42 | 2°R 8 | 17°58 | 4°23 | 4° 7 | 6°56 | 8°38 | 18°49 | 21° 0 | W13 |
| T 14 | 19 30 26 | 22° 6'31 | 6 米 7 | 2°27 | 6°44 | 18°25 | 14°52 | 2° 8 | 17°57 | 4°22 | 4° 8 | 6°D55 | 8°35 | 18°55 | 20°59 | T 14 |
| F 15 | 19 34 22 | 23° 3'45 | 18°51 | 3°49 | 7°57 | 18°44 | 15° 2 | 2° 8 | 17°56 | 4°20 | 4°10 | 6°55 | 8°31 | 19° 2 | 20°58 | F 15 |
| S 16 | 19 38 19 | 24° 1'00 | 1 Y 51 | 5°15 | 9°10 | 19° 1 | 15°12 | 2° 8 | 17°55 | 4°18 | 4°11 | 6°57 | 8°28 | 19° 9 | 20°56 | S 16 |
| S 17 | 19 42 15 | 24°58'16 | 15°10 | 6°45 | 10°24 | 19°18 | 15°23 | 2° 7 | 17°54 | 4°17 | 4°12 | 6°58 | 8°25 | 19°16 | 20°55 | S 17 |
| M18 | 19 46 12 | 25°55'33 | 28°48 | 8°20 | 11°37 | 19°35 | 15°33 | 2° 7 | 17°52 | 4°15 | 4°14 | 6°R58 | 8°22 | 19°22 | 20°54 | M18 |
| T 19 | 19 50 8 | 26°52'51 | 12848 | 9°59 | 12°51 | 19°51 | 15°43 | 2° 6 | 17°51 | 4°14 | 4°15 | 6°57 | 8°19 | 19°29 | 20°53 | T 19 |
| W20 | 19 54 5 | 27°50'10 | 27° 9 | 11°41 | 14° 4 | 20° 6 | 15°54 | 2° 6 | 17°50 | 4°12 | 4°17 | 6°54 | 8°16 | 19°36 | 20°51 | W20 |
| T 21 | 19 58 1 | 28°47'30 | 11 II 48 | 13°27 | 15°18 | 20°20 | 16° 4 | 2° 5 | 17°49 | 4°10 | 4°18 | 6°50 | 8°12 | 19°42 | 20°50 | T 21 |
| F 22 S 23 | 20 1 58 20 5 55 | 29°44'51 0 Ω 42'13 | 26°40 11 9 38 | 15°16 17°8 | 16°31 17°45 | 20°34 20°47 | 16°15 16°26 | 2° 4 2° 3 | 17°47 17°46 | 4° 9 4° 7 | 4°19 4°21 | 6°45 6°40 | 8° 9 8° 6 | 19°49 19°56 | 20°48 20°47 | F 22 S 23 |
| | | | | | | | | | | | | | | | | |
| S 24 | 20 9 51 | 1°39'36 | 26°33 | 19° 3 | 18°58 | 21° 0 | 16°36 | 2° 2 | 17°45 | 4° 5 | 4°22 | 6°35 | 8° 3 | 20° 3 | 20°45 | S 24 |
| M25 | 20 13 48 | 2°36'59 | 11 Ω 16 | 21° 1 | 20°12 | 21°11 | 16°47 | 2° 1 | 17°43 | 4° 4 | 4°23 | 6°32 | 8° 0 | 20° 9 | 20°44 | M25 |
| T 26 | 20 17 44 | 3°34'24 | 25°40 | 23° 0 | 21°26 | 21°22 | 16°58 | 2° 0 | 17°42 | 4° 2 | 4°25 | 6°30 | 7°57 | 20°16 | 20°42 | T 26 |
| W27 | 20 21 41 | 4°31'49 | 9 m)41 | 25° 1 | 22°39 | 21°33 | 17° 9 | 1°58 | 17°40 | 4° 1 | 4°26 | 6°D29 | 7°53 | 20°23 | 20°40 | W27 |
| T 28 F 29 | 20 25 37 20 29 34 | 5°29'14 6°26'41 | 23°16 6 Ω 26 | 27° 4 29° 7 | 23°53 25° 7 | 21°42 21°51 | 17°20 17°31 | 1°57 1°55 | 17°38 17°37 | 3°59 3°57 | 4°27 4°29 | 6°30 6°32 | 7°50 7°47 | 20°30 20°36 | 20°38 20°37 | T 28 F 29 |
| S 30 | 20 29 34 20 33 30 | 7°24'08 | 19°12 | 1 Ω 12 | 25° / 26°20 | 21°51 21°59 | 17°31 17°43 | 1°55 1°54 | 17°37 17°35 | 3°56 | 4°29 4°30 | 6°32 6°33 | 7°47 7°44 | 20°36 20°43 | 20°37 20°35 | F 29 S 30 |
| | | | - | | | | | _ | | | | | | | | |
| S 31 | 20 37 27 | 8 Ω 21'36 | 1 M 39 | 3 Ω 16 | 27934 | 22 米 6 | 17 M 54 | 1 Υ 52 | 17) (34 | 3≈54 | 49931 | 6 ∺ 34 | 7) €41 | 20 × 750 | 20 ∺ 33 | S 31 |

Delta T = 28.16 sec

Greg. Calendar

AUGUST 1672 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)Å(| 卉 | Р | B | ಬ | Ç | ę, | Day |
|-------------|----------------------|----------------------|------------------------|----------------|----------------|-----------------|-----------------|---------------|----------------|--------------|--------------|---------------|----------------|----------------|----------------|-------------|
| M 1 | 20 41 24 | 9 Ω 19'04 | 13 M 51 | 5 Ω 21 | 28948 | 22) 12 | 18 M) 5 | 1°R50 | 17°R32 | 3°R52 | 4933 | 6°R34 | 7) €37 | 20 х 56 | 20°R31 | M 1 |
| T 2 | 20 45 20 | 10°16'34 | 25°51 | 7°26 | 0Ω 2 | 22°18 | 18°17 | 1 Υ 48 | 17 ∺ 30 | 3≈51 | 4°34 | 6 ∺ 33 | 7°34 | 21° 3 | 20 米 29 | T 2 |
| W 3 | 20 49 17 | 11°14'04 | 7 ₹ 46 | 9°30 | 1°16 | 22°23 | 18°28 | 1°46 | 17°28 | 3°49 | 4°35 | 6°31 | 7°31 | 21°10 | 20°27 | W 3 |
| T 4 F 5 | 20 53 13 20 57 10 | 12°11'35 13° 9'07 | 19°38 1 る 32 | 11°33 13°36 | 2°29 3°43 | 22°27 22°30 | 18°40 18°51 | 1°44 1°42 | 17°27 17°25 | 3°48 3°46 | 4°36 4°38 | 6°28 6°24 | 7°28 7°25 | 21°17 21°23 | 20°25 20°23 | T 4 F 5 |
| S 6 | 20 57 10 | 13° 907 14° 6'41 | 13°31 | 15°38 | 4°57 | 22°33 | 18°31 19° 3 | 1°42 1°39 | 17°23 | 3°44 | 4°38 4°39 | 6°24 6°21 | 7°23 | 21°30 | 20°23 20°21 | S 6 |
| | | | | | | | | | | _ | | | | | - | |
| S 7 | 21 5 3 | 15° 4'15 | 25°38 | 17°38 | 6°11 | 22°34 | 19°14 | 1°37 | 17°21 | 3°43 | 4°40 | 6°17 | 7°18 | 21°37 | 20°19 | S 7 |
| M 8 T 9 | 21 8 59 | 16° 1'50 | 7 ≈ 53 20°19 | 19°38 21°36 | 7°25 8°39 | 22°35 | 19°26 19°38 | 1°35 1°32 | 17°19 | 3°41 3°40 | 4°41 4°42 | 6°15 6°13 | 7°15 7°12 | 21°43 21°50 | 20°17 20°14 | M 8 T 9 |
| W10 | 21 12 56 21 16 53 | 16°59'26 17°57'04 | 20°19 2) 57 | 21°36 23°33 | 9°53 | 22°R35 22°35 | 19°50 | 1°32 1°29 | 17°17 17°15 | 3°38 | 4°42 4°43 | 6°D12 | 7° 12 | 21°57 | 20°14 20°12 | W10 |
| T 11 | 21 20 49 | 18°54'43 | 15°47 | 25°29 | 11° 7 | 22°33 | 20° 2 | 1°27 | 17°13 | 3°36 | 4°45 | 6°12 | 7° 6 | 22° 4 | 20°10 | T 11 |
| F 12 | 21 24 46 | 19°52'23 | 28°51 | 27°24 | 12°21 | 22°30 | 20°14 | 1°24 | 17°11 | 3°35 | 4°46 | 6°13 | 7° 3 | 22°10 | 20° 7 | F 12 |
| S 13 | 21 28 42 | 20°50'05 | 12 ° 8 | 29°17 | 13°35 | 22°27 | 20°26 | 1°21 | 17° 9 | 3°33 | 4°47 | 6°14 | 6°59 | 22°17 | 20° 5 | S 13 |
| S 14 | 21 32 39 | 21°47'49 | 25°38 | 1 Mp 8 | 14°49 | 22°23 | 20°38 | 1°18 | 17° 7 | 3°32 | 4°48 | 6°16 | 6°56 | 22°24 | 20° 3 | S 14 |
| M15 | 21 36 35 | 22°45'34 | 9 8 23 | 2°58 | 16° 4 | 22°18 | 20°50 | 1°15 | 17° 5 | 3°30 | 4°49 | 6°16 | 6°53 | 22°30 | 20° 0 | M15 |
| T 16 | 21 40 32 | 23°43'21 | 23°22 | 4°47 | 17°18 | 22°12 | 21° 2 | 1°12 | 17° 3 | 3°29 | 4°50 | 6°R17 | 6°50 | 22°37 | 19°58 | T 16 |
| W17 | 21 44 28 | 24°41'10 | 7 Ⅲ 33 | 6°35 | 18°32 | 22° 6 | 21°14 | 1° 9 | 17° 1 | 3°27 | 4°51 | 6°16 | 6°47 | 22°44 | 19°55 | W17 |
| T 18 | 21 48 25 | 25°39'00 | 21°56 | 8°21 | 19°46 | 21°59 | 21°27 | 1° 5 | 16°58 | 3°26 | 4°52 | 6°16 | 6°43 | 22°51 | 19°53 | T 18 |
| F 19 | 21 52 22 | 26°36'53 | 6925 | 10° 5 | 21° 0 | 21°51 | 21°39 | 1° 2 | 16°56 | 3°24 | 4°53 | 6°15 | 6°40 | 22°57 | 19°50 | F 19 |
| S 20 | 21 56 18 | 27°34'47 | 20°58 | 11°49 | 22°15 | 21°42 | 21°51 | 0°58 | 16°54 | 3°23 | 4°54 | 6°14 | 6°37 | 23° 4 | 19°48 | S 20 |
| S 21 | 22 0 15 | 28°32'43 | 5 Ω 27 | 13°31 | 23°29 | 21°32 | 22° 3 | 0°55 | 16°52 | 3°21 | 4°55 | 6°13 | 6°34 | 23°11 | 19°45 | S 21 |
| M22 | 22 4 11 | 29°30'40 | 19°49 | 15°11 | 24°43 | 21°22 | 22°16 | 0°51 | 16°50 | 3°20 | 4°56 | 6°12 | 6°31 | 23°17 | 19°43 | M22 |
| T 23 | 22 8 8 | 0 TD 28'39 | 3 m) 57 | 16°51 | 25°58 | 21°11 | 22°28 | 0°48 | 16°47 | 3°19 | 4°57 | 6°D12 | 6°28 | 23°24 | 19°40 | T 23 |
| W24 T 25 | 22 12 4 22 16 1 | 1°26'40 2°24'42 | 17°47 1 Ω 16 | 18°29 20° 6 | 27°12 28°26 | 20°59 20°47 | 22°41 22°53 | 0°44 0°40 | 16°45 16°43 | 3°17 3°16 | 4°58 4°59 | 6°12 6°12 | 6°24 6°21 | 23°31 23°38 | 19°37 19°35 | W24 T 25 |
| F 26 | 22 16 1 | 3°22'45 | 14°24 | 20° 6 21°41 | 28°26 29°41 | 20°47 20°34 | 22°53 23° 6 | 0°40 0°36 | 16°43 | 3°14 | 5° 0 | 6°12 | 6°18 | 23°44 | 19°33 | F 26 |
| S 27 | 22 23 54 | 4°20'50 | 27°12 | 23°15 | 0 m 55 | 20°21 | 23°18 | 0°32 | 16°38 | 3°13 | 5° 0 | 6°13 | 6°15 | 23°51 | 19°29 | S 27 |
| S 28 | 22 27 51 | 5°18'57 | 9 11 .40 | 24°48 | 2°10 | 20° 7 | 23°31 | 0°28 | 16°36 | 3°12 | 5° 1 | 6°13 | 6°12 | 23°58 | 19°27 | S 28 |
| M29 | 22 27 31 22 31 47 | 6°17'05 | 21°54 | 26°20 | 3°24 | 19°52 | 23°44 | 0°24 | 16°33 | 3°10 | 5° 2 | 6°R13 | 6° 8 | 23 38 24° 5 | 19°24 | M29 |
| T 30 | 22 35 44 | 7°15'14 | 3 7 56 | 20°20 27°51 | 4°39 | 19°38 | 23°56 | 0°20 | 16°31 | 3° 9 | 5° 3 | 6°D13 | 6° 5 | 24°11 | 19°21 | T 30 |
| W31 | 22 39 40 | 8 mp 13'25 | 15 % 51 | 29 m 20 | 5 m 53 | 19) | 24 m 9 | 0 Υ 16 | 16) 29 | 3≈ 8 | 599 4 | 6 ∺ 13 | 6 ¥ 2 | 24 × 18 | 19 X 18 | W31 |

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SEPTEMBER 1672 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Ŷ | ð | 4 | ħ |)Å(| ¥ | Р | ₽. | ß | ţ | Q K | Day |
|------|----------|-------------------------------|-----------------|---------------|----------------|----------------|---------------|----------------|----------------|-------|--------------|---------------|---------------|-----------------|----------------|------|
| T 1 | 22 43 37 | 9 m ₂ 11'38 | 27 .7 44 | 0 ჲ 48 | 7 m) 8 | 19°R 7 | 24 M 22 | 0°R12 | 16°R26 | 3°R 7 | 5 9 5 | 6 ∺ 13 | 5) 59 | 24 × 125 | 19°R16 | T 1 |
| F 2 | 22 47 33 | 10° 9'52 | 9 云 39 | 2°14 | 8°22 | 18 米 51 | 24°35 | oΥ 8 | 16 ∺ 24 | 3≈ 5 | 5° 5 | 6°14 | 5°56 | 24°31 | 19 米 13 | F 2 |
| S 3 | 22 51 30 | 11° 8'08 | 21°41 | 3°40 | 9°37 | 18°35 | 24°47 | 0° 4 | 16°21 | 3° 4 | 5° 6 | 6°14 | 5°53 | 24°38 | 19°10 | S 3 |
| S 4 | 22 55 26 | 12° 6'25 | 3≈52 | 5° 4 | 10°51 | 18°18 | 25° 0 | 29 ∺ 59 | 16°19 | 3° 3 | 5° 7 | 6°15 | 5°49 | 24°45 | 19° 7 | S 4 |
| M 5 | 22 59 23 | 13° 4'44 | 16°17 | 6°27 | 12° 6 | 18° 2 | 25°13 | 29°55 | 16°17 | 3° 2 | 5° 7 | 6°15 | 5°46 | 24°52 | 19° 4 | M 5 |
| T 6 | 23 3 20 | 14° 3'04 | 28°57 | 7°48 | 13°20 | 17°45 | 25°26 | 29°51 | 16°14 | 3° 1 | 5° 8 | 6°16 | 5°43 | 24°58 | 19° 2 | T 6 |
| W 7 | 23 7 16 | 15° 1'26 | 11 米 53 | 9° 8 | 14°35 | 17°29 | 25°39 | 29°46 | 16°12 | 3° 0 | 5° 9 | 6°R16 | 5°40 | 25° 5 | 18°59 | W 7 |
| T 8 | 23 11 13 | 15°59'50 | 25° 6 | 10°26 | 15°50 | 17°12 | 25°51 | 29°42 | 16° 9 | 2°59 | 5° 9 | 6°15 | 5°37 | 25°12 | 18°56 | T 8 |
| F 9 | 23 15 9 | 16°58'16 | 8 Υ 34 | 11°43 | 17° 4 | 16°55 | 26° 4 | 29°37 | 16° 7 | 2°58 | 5°10 | 6°14 | 5°34 | 25°18 | 18°53 | F 9 |
| S 10 | 23 19 6 | 17°56'44 | 22°16 | 12°59 | 18°19 | 16°38 | 26°17 | 29°33 | 16° 5 | 2°56 | 5°10 | 6°13 | 5°30 | 25°25 | 18°50 | S 10 |
| S 11 | 23 23 2 | 18°55'15 | 6810 | 14°12 | 19°34 | 16°22 | 26°30 | 29°28 | 16° 2 | 2°55 | 5°11 | 6°11 | 5°27 | 25°32 | 18°48 | S 11 |
| M12 | 23 26 59 | 19°53'47 | 20°12 | 15°24 | 20°48 | 16° 5 | 26°43 | 29°24 | 16° 0 | 2°54 | 5°12 | 6°10 | 5°24 | 25°39 | 18°45 | M12 |
| T 13 | 23 30 55 | 20°52'21 | 4 Ⅱ 20 | 16°35 | 22° 3 | 15°49 | 26°56 | 29°19 | 15°57 | 2°53 | 5°12 | 6° 9 | 5°21 | 25°45 | 18°42 | T 13 |
| W14 | 23 34 52 | 21°50'58 | 18°32 | 17°43 | 23°18 | 15°33 | 27° 9 | 29°14 | 15°55 | 2°53 | 5°13 | 6°D 8 | 5°18 | 25°52 | 18°39 | W14 |
| T 15 | 23 38 49 | 22°49'37 | 29945 | 18°49 | 24°32 | 15°17 | 27°22 | 29°10 | 15°53 | 2°52 | 5°13 | 6° 8 | 5°14 | 25°59 | 18°36 | T 15 |
| F 16 | 23 42 45 | 23°48'19 | 16°57 | 19°53 | 25°47 | 15° 2 | 27°35 | 29° 5 | 15°50 | 2°51 | 5°14 | 6° 9 | 5°11 | 26° 5 | 18°33 | F 16 |
| S 17 | 23 46 42 | 24°47'03 | 1 Ω 5 | 20°55 | 27° 2 | 14°47 | 27°48 | 29° 0 | 15°48 | 2°50 | 5°14 | 6°10 | 5° 8 | 26°12 | 18°31 | S 17 |
| S 18 | 23 50 38 | 25°45'48 | 15° 7 | 21°55 | 28°17 | 14°32 | 28° 1 | 28°56 | 15°46 | 2°49 | 5°14 | 6°12 | 5° 5 | 26°19 | 18°28 | S 18 |
| M19 | 23 54 35 | 26°44'36 | 29° 0 | 22°52 | 29°32 | 14°18 | 28°14 | 28°51 | 15°43 | 2°48 | 5°15 | 6°12 | 5° 2 | 26°26 | 18°25 | M19 |
| T 20 | 23 58 31 | 27°43'26 | 12 m /43 | 23°46 | 0 ჲ 46 | 14° 4 | 28°27 | 28°46 | 15°41 | 2°47 | 5°15 | 6°R12 | 4°59 | 26°32 | 18°22 | T 20 |
| W21 | 0 2 28 | 28°42'19 | 26°13 | 24°36 | 2° 1 | 13°51 | 28°40 | 28°42 | 15°39 | 2°47 | 5°15 | 6°11 | 4°55 | 26°39 | 18°19 | W21 |
| T 22 | 0 6 24 | 29°41'13 | 9 <u>₽</u> 28 | 25°24 | 3°16 | 13°38 | 28°53 | 28°37 | 15°36 | 2°46 | 5°16 | 6° 9 | 4°52 | 26°46 | 18°17 | T 22 |
| F 23 | 0 10 21 | 0 <u>₽</u> 40'09 | 22°27 | 26° 8 | 4°31 | 13°26 | 29° 6 | 28°32 | 15°34 | 2°45 | 5°16 | 6° 6 | 4°49 | 26°52 | 18°14 | F 23 |
| S 24 | 0 14 17 | 1°39'07 | 5 M 9 | 26°48 | 5°46 | 13°15 | 29°19 | 28°28 | 15°32 | 2°45 | 5°16 | 6° 2 | 4°46 | 26°59 | 18°11 | S 24 |
| S 25 | 0 18 14 | 2°38'07 | 17°35 | 27°24 | 7° 1 | 13° 4 | 29°32 | 28°23 | 15°29 | 2°44 | 5°17 | 5°57 | 4°43 | 27° 6 | 18° 8 | S 25 |
| M26 | 0 22 11 | 3°37'09 | 29°48 | 27°55 | 8°15 | 12°54 | 29°45 | 28°18 | 15°27 | 2°43 | 5°17 | 5°53 | 4°40 | 27°13 | 18° 6 | M26 |
| T 27 | 0 26 7 | 4°36'13 | 11 .7 49 | 28°21 | 9°30 | 12°45 | 29°58 | 28°14 | 15°25 | 2°43 | 5°17 | 5°50 | 4°36 | 27°19 | 18° 3 | T 27 |
| W28 | 0 30 4 | 5°35'19 | 23°44 | 28°41 | 10°45 | 12°36 | 0₽11 | 28° 9 | 15°23 | 2°42 | 5°17 | 5°48 | 4°33 | 27°26 | 18° 0 | W28 |
| T 29 | 0 34 0 | 6°34'26 | 5 중 36 | 28°56 | 12° 0 | 12°28 | 0°24 | 28° 4 | 15°20 | 2°42 | 5°17 | 5°D47 | 4°30 | 27°33 | 17°58 | T 29 |
| F 30 | 0 37 57 | 7 ≏ 33'35 | 17 云 30 | 29 ♀ 4 | 13 ≏ 15 | 12 米 21 | 0 ჲ 37 | 28 ∺ 0 | 15 ∺ 18 | 2≈41 | 59917 | 5 ∺ 48 | 4 ∺ 27 | 27 , ₹39 | 17 米 55 | F 30 |

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Greg. Calendar

OCTOBER 1672 GC 00:00 UT

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|------|---------|------------------|-----------------|---------------|----------------|---------------|---------------|----------------|-----------------|-------|-------|---------------|---------------|-----------------|----------------|------|
| S 1 | 0 41 53 | 8 ₾ 32'46 | 29 궁 31 | 29°R 6 | 14 ≏ 30 | 12°R15 | 0 ჲ 50 | 27°R55 | 15°R16 | 2°R41 | 5917 | 5) 49 | 4 ∺ 24 | 27 × 746 | 17°R53 | S 1 |
| S 2 | 0 45 50 | 9°31'59 | 11≈44 | 29 <u>₽</u> 0 | 15°45 | 12 米 9 | 1° 2 | 27) 51 | 15) 14 | 2≈41 | 5°18 | 5°51 | 4°20 | 27°53 | 17) 50 | S 2 |
| M 3 | 0 49 46 | 10°31'14 | 24°12 | 28°47 | 17° 0 | 12° 5 | 1°15 | 27°46 | 15°12 | 2°40 | 5°18 | 5°52 | 4°17 | 27°59 | 17°47 | M 3 |
| T 4 | 0 53 43 | 11°30'30 | 7) 1 | 28°25 | 18°15 | 12° 1 | 1°28 | 27°42 | 15°10 | 2°40 | 5°18 | 5°R53 | 4°14 | 28° 6 | 17°45 | T 4 |
| W 5 | 0 57 40 | 12°29'48 | 20°11 | 27°56 | 19°30 | 11°57 | 1°41 | 27°37 | 15° 8 | 2°40 | 5°R18 | 5°52 | 4°11 | 28°13 | 17°42 | W 5 |
| T 6 | 1 1 36 | 13°29'08 | 3 ℃ 43 | 27°18 | 20°44 | 11°55 | 1°54 | 27°33 | 15° 6 | 2°39 | 5°18 | 5°49 | 4° 8 | 28°20 | 17°40 | T 6 |
| F 7 | 1 5 33 | 14°28'30 | 17°36 | 26°32 | 21°59 | 11°53 | 2° 7 | 27°28 | 15° 4 | 2°39 | 5°18 | 5°45 | 4° 5 | 28°26 | 17°37 | F 7 |
| S 8 | 1 9 29 | 15°27'55 | 1847 | 25°39 | 23°14 | 11°52 | 2°20 | 27°24 | 15° 2 | 2°39 | 5°18 | 5°39 | 4° 1 | 28°33 | 17°35 | S 8 |
| S 9 | 1 13 26 | 16°27'21 | 16° 9 | 24°39 | 24°29 | 11°D52 | 2°33 | 27°20 | 15° 0 | 2°39 | 5°17 | 5°32 | 3°58 | 28°40 | 17°33 | S 9 |
| M10 | 1 17 22 | 17°26'50 | 0 Ⅲ 38 | 23°32 | 25°44 | 11°53 | 2°45 | 27°15 | 14°58 | 2°38 | 5°17 | 5°26 | 3°55 | 28°46 | 17°30 | M10 |
| T 11 | 1 21 19 | 18°26'21 | 15° 7 | 22°22 | 26°59 | 11°55 | 2°58 | 27°11 | 14°56 | 2°38 | 5°17 | 5°21 | 3°52 | 28°53 | 17°28 | T 11 |
| W12 | 1 25 15 | 19°25'54 | 29°31 | 21° 9 | 28°14 | 11°57 | 3°11 | 27° 7 | 14°54 | 2°38 | 5°17 | 5°17 | 3°49 | 29° 0 | 17°26 | W12 |
| T 13 | 1 29 12 | 20°25'30 | 13 95 47 | 19°55 | 29°29 | 12° 0 | 3°24 | 27° 3 | 14°52 | 2°38 | 5°17 | 5°16 | 3°46 | 29° 7 | 17°23 | T 13 |
| F 14 | 1 33 9 | 21°25'08 | 27°51 | 18°42 | 0 M .44 | 12° 4 | 3°36 | 26°59 | 14°50 | 2°D38 | 5°17 | 5°D15 | 3°42 | 29°13 | 17°21 | F 14 |
| S 15 | 1 37 5 | 22°24'48 | 11 \O 43 | 17°33 | 1°59 | 12° 9 | 3°49 | 26°55 | 14°49 | 2°38 | 5°16 | 5°16 | 3°39 | 29°20 | 17°19 | S 15 |
| S 16 | 1 41 2 | 23°24'31 | 25°24 | 16°30 | 3°14 | 12°14 | 4° 2 | 26°51 | 14°47 | 2°38 | 5°16 | 5°18 | 3°36 | 29°27 | 17°17 | S 16 |
| M17 | 1 44 58 | 24°24'16 | 8 m 53 | 15°34 | 4°29 | 12°20 | 4°14 | 26°47 | 14°45 | 2°38 | 5°16 | 5°R18 | 3°33 | 29°33 | 17°15 | M17 |
| T 18 | 1 48 55 | 25°24'03 | 22°10 | 14°48 | 5°44 | 12°27 | 4°27 | 26°43 | 14°44 | 2°38 | 5°16 | 5°17 | 3°30 | 29°40 | 17°13 | T 18 |
| W19 | 1 52 51 | 26°23'52 | 5 ≙ 16 | 14°12 | 6°59 | 12°35 | 4°39 | 26°39 | 14°42 | 2°39 | 5°15 | 5°13 | 3°26 | 29°47 | 17°11 | W19 |
| T 20 | 1 56 48 | 27°23'43 | 18°11 | 13°46 | 8°14 | 12°43 | 4°52 | 26°36 | 14°40 | 2°39 | 5°15 | 5° 7 | 3°23 | 29°54 | 17° 9 | T 20 |
| F 21 | 2 0 44 | 28°23'36 | 0M54 | 13°32 | 9°29 | 12°52 | 5° 4 | 26°32 | 14°39 | 2°39 | 5°15 | 4°58 | 3°20 | 0중 0 | 17° 7 | F 21 |
| S 22 | 2 4 41 | 29°23'31 | 13°25 | 13°D30 | 10°44 | 13° 2 | 5°17 | 26°29 | 14°37 | 2°39 | 5°14 | 4°48 | 3°17 | 0° 7 | 17° 5 | S 22 |
| S 23 | 2 8 38 | 0M23'29 | 25°44 | 13°39 | 11°59 | 13°12 | 5°29 | 26°25 | 14°36 | 2°40 | 5°14 | 4°37 | 3°14 | 0°14 | 17° 3 | S 23 |
| M24 | 2 12 34 | 1°23'28 | 7 ,₹ 52 | 13°58 | 13°14 | 13°23 | 5°41 | 26°22 | 14°34 | 2°40 | 5°13 | 4°27 | 3°11 | 0°20 | 17° 1 | M24 |
| T 25 | 2 16 31 | 2°23'28 | 1 <u>9</u> °51 | 14°27 | 14°29 | 13°35 | 5°54 | 26°18 | 14°33 | 2°40 | 5°13 | 4°17 | 3° 7 | 0°27 | 16°59 | T 25 |
| W26 | 2 20 27 | 3°23'31 | 1 る 43 | 15° 6 | 15°44 | 13°48 | 6° 6 | 26°15 | 14°32 | 2°41 | 5°13 | 4°10 | 3° 4 | 0°34 | 16°58 | W26 |
| T 27 | 2 24 24 | 4°23'35 | 13°33 | 15°52 | 16°59 | 14° 1 | 6°18 | 26°12 | 14°30 | 2°41 | 5°12 | 4° 5 | 3° 1 | 0°41 | 16°56 | T 27 |
| F 28 | 2 28 20 | 5°23'41 | 25°24 | 16°46 | 18°14 | 14°15 | 6°30 | 26° 9 | 14°29 | 2°42 | 5°12 | 4° 3 | 2°58 | 0°47 | 16°54 | F 28 |
| S 29 | 2 32 17 | 6°23'48 | 7 ≈ 22 | 17°46 | 19°29 | 14°29 | 6°42 | 26° 6 | 14°28 | 2°42 | 5°11 | 4°D 2 | 2°55 | 0°54 | 16°53 | S 29 |
| S 30 | 2 36 13 | 7°23'57 | 19°31 | 18°52 | 20°44 | 14°44 | 6°55 | 26° 3 | 14°27 | 2°43 | 5°10 | 4° 3 | 2°51 | 1° 1 | 16°51 | S 30 |
| M31 | 2 40 10 | 8 M 24'07 | 1 ∺ 58 | 20 ♀ 3 | 21 M 59 | 15 米 0 | 7 ♀ 7 | 26 米 0 | 14) (26 | 2≈43 | 59910 | 4°R 3 | 2) 48 | 1る 7 | 16 ∺ 50 | M31 |

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NOVEMBER 1672 GC 00:00 UT

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|------|---------|-------------------|------------------|----------------|-----------------|----------------|----------------|----------------|----------------|------|--------------|---------------|---------------|---------------|------------------|------|
| T 1 | 2 44 7 | 9 M 24'19 | 14) (47 | 21 ≏ 19 | 23 M .14 | 15) 16 | 7 ≙ 18 | 25°R57 | 14°R25 | 2≈44 | 5°R 9 | 4°R 3 | 2) 45 | 1 ට 14 | 16°R48 | T 1 |
| W 2 | 2 48 3 | 10°24'33 | 28° 1 | 22°38 | 24°29 | 15°33 | 7°30 | 25 米 55 | 14) 24 | 2°44 | 5 9 9 | 4 ∺ 0 | 2°42 | 1°21 | 16) (47 | W 2 |
| T 3 | 2 52 0 | 11°24'48 | 11 Y 42 | 24° 0 | 25°44 | 15°50 | 7°42 | 25°52 | 14°23 | 2°45 | 5° 8 | 3°55 | 2°39 | 1°27 | 16°45 | T 3 |
| F 4 | 2 55 56 | 12°25'04 | 25°51 | 25°24 | 26°59 | 16° 8 | 7°54 | 25°50 | 14°22 | 2°46 | 5° 7 | 3°48 | 2°36 | 1°34 | 16°44 | F 4 |
| S 5 | 2 59 53 | 13°25'22 | 10823 | 26°51 | 28°14 | 16°26 | 8° 6 | 25°47 | 14°21 | 2°46 | 5° 7 | 3°38 | 2°32 | 1°41 | 16°43 | S 5 |
| S 6 | 3 3 49 | 14°25'43 | 25°12 | 28°20 | 29°29 | 16°45 | 8°17 | 25°45 | 14°20 | 2°47 | 5° 6 | 3°27 | 2°29 | 1°48 | 16°42 | S 6 |
| M 7 | 3 7 46 | 15°26'04 | 10耳 8 | 29°50 | 0 ∡ 744 | 17° 4 | 8°29 | 25°43 | 14°19 | 2°48 | 5° 5 | 3°16 | 2°26 | 1°54 | 16°41 | M 7 |
| T 8 | 3 11 42 | 16°26'28 | 25° 4 | 1 M 21 | 1°59 | 17°24 | 8°41 | 25°41 | 14°18 | 2°49 | 5° 5 | 3° 7 | 2°23 | 2° 1 | 16°40 | T 8 |
| W 9 | 3 15 39 | 17°26'54 | 9 95 50 | 2°53 | 3°14 | 17°45 | 8°52 | 25°39 | 14°18 | 2°50 | 5° 4 | 3° 0 | 2°20 | 2° 8 | 16°39 | W 9 |
| T 10 | 3 19 36 | 18°27'21 | 24°20 | 4°26 | 4°29 | 18° 5 | 9° 4 | 25°37 | 14°17 | 2°51 | 5° 3 | 2°55 | 2°17 | 2°14 | 16°38 | T 10 |
| F 11 | 3 23 32 | 19°27'51 | 8 Ω 30 | 5°59 | 5°44 | 18°27 | 9°15 | 25°35 | 14°16 | 2°51 | 5° 2 | 2°53 | 2°13 | 2°21 | 16°37 | F 11 |
| S 12 | 3 27 29 | 20°28'22 | 22°21 | 7°33 | 6°59 | 18°48 | 9°26 | 25°33 | 14°16 | 2°52 | 5° 1 | 2°D53 | 2°10 | 2°28 | 16°36 | S 12 |
| S 13 | 3 31 25 | 21°28'55 | 5 m 52 | 9° 8 | 8°14 | 19°10 | 9°37 | 25°32 | 14°15 | 2°53 | 5° 1 | 2°R53 | 2° 7 | 2°35 | 16°35 | S 13 |
| M14 | 3 35 22 | 22°29'29 | 19° 5 | 10°42 | 9°29 | 19°33 | 9°49 | 25°30 | 14°15 | 2°54 | 5° 0 | 2°52 | 2° 4 | 2°41 | 16°34 | M14 |
| T 15 | 3 39 18 | 23°30'06 | 2 ≏ 4 | 12°17 | 10°43 | 19°56 | 10° 0 | 25°29 | 14°14 | 2°55 | 4°59 | 2°49 | 2° 1 | 2°48 | 16°33 | T 15 |
| W16 | 3 43 15 | 24°30'44 | 14°51 | 13°52 | 11°58 | 20°19 | 10°11 | 25°27 | 14°14 | 2°57 | 4°58 | 2°43 | 1°57 | 2°55 | 16°33 | W16 |
| T 17 | 3 47 11 | 25°31'24 | 27°26 | 15°27 | 13°13 | 20°43 | 10°22 | 25°26 | 14°14 | 2°58 | 4°57 | 2°35 | 1°54 | 3° 1 | 16°32 | T 17 |
| F 18 | 3 51 8 | 26°32'05 | 9 M 52 | 17° 2 | 14°28 | 21° 7 | 10°32 | 25°25 | 14°13 | 2°59 | 4°56 | 2°23 | 1°51 | 3° 8 | 16°32 | F 18 |
| S 19 | 3 55 5 | 27°32'48 | 22° 9 | 18°37 | 15°43 | 21°32 | 10°43 | 25°24 | 14°13 | 3° 0 | 4°55 | 2° 9 | 1°48 | 3°15 | 16°31 | S 19 |
| S 20 | 3 59 1 | 28°33'32 | 4 ₹ 18 | 20°11 | 16°58 | 21°57 | 10°54 | 25°23 | 14°13 | 3° 1 | 4°54 | 1°54 | 1°45 | 3°21 | 16°31 | S 20 |
| M21 | 4 2 58 | 29°34'18 | 16°19 | 21°46 | 18°13 | 22°22 | 11° 4 | 25°22 | 14°13 | 3° 2 | 4°53 | 1°39 | 1°42 | 3°28 | 16°30 | M21 |
| T 22 | 4 6 54 | 0 ₮ 35'05 | 28°14 | 23°21 | 19°28 | 22°48 | 11°15 | 25°22 | 14°13 | 3° 4 | 4°52 | 1°26 | 1°38 | 3°35 | 16°30 | T 22 |
| W23 | 4 10 51 | 1°35'53 | 10궁 4 | 24°56 | 20°43 | 23°14 | 11°25 | 25°21 | 14°D13 | 3° 5 | 4°51 | 1°15 | 1°35 | 3°42 | 16°30 | W23 |
| T 24 | 4 14 47 | 2°36'42 | 21°52 | 26°30 | 21°58 | 23°40 | 11°36 | 25°21 | 14°13 | 3° 6 | 4°50 | 1° 7 | 1°32 | 3°48 | 16°30 | T 24 |
| F 25 | 4 18 44 | 3°37'33 | 3≈42 | 28° 5 | 23°13 | 24° 7 | 11°46 | 25°20 | 14°13 | 3° 8 | 4°49 | 1° 2 | 1°29 | 3°55 | 16°30 | F 25 |
| S 26 | 4 22 40 | 4°38'24 | 15°37 | 29°39 | 24°28 | 24°34 | 11°56 | 25°20 | 14°13 | 3° 9 | 4°48 | 1° 0 | 1°26 | 4° 2 | 16°30 | S 26 |
| S 27 | 4 26 37 | 5°39'16 | 27°43 | 1 ∡ 14 | 25°43 | 25° 1 | 12° 6 | 25°20 | 14°13 | 3°10 | 4°47 | 0°59 | 1°23 | 4° 8 | 16°D30 | S 27 |
| M28 | 4 30 34 | 6°40'09 | 10 米 4 | 2°48 | 26°58 | 25°29 | 12°16 | 25°D20 | 14°14 | 3°12 | 4°46 | 0°59 | 1°19 | 4°15 | 16°30 | M28 |
| T 29 | 4 34 30 | 7°41'02 | 22°47 | 4°22 | 28°13 | 25°56 | 12°26 | 25°20 | 14°14 | 3°13 | 4°45 | 0°59 | 1°16 | 4°22 | 16°30 | T 29 |
| W30 | 4 38 27 | 8 . ₹41'56 | 5 Υ 56 | 5 ₹ 56 | 29 × 28 | 26 米 25 | 12 ≏ 36 | 25 米 20 | 14 米 14 | 3≈15 | 49544 | 0 ∺ 56 | 1) 13 | 4 る 28 | 16 ∺ 30 | W30 |

Delta T = 27.95 sec

Greg. Calendar

| DECEMBER 1672 GC | 00:00 UT |
|------------------|----------|
| DECEMBER 10/2 OC | 00,00 01 |

| Day | Sid.t | 0 | D | Ϋ́ | Q+ | ♂ | 4 | ħ |)γ(| ¥ | Р | ß | ಬ | Ç | ٧٥ | Day |
|------|---------|-------------------|-----------------|----------------|---------------|----------------|----------------|----------------|----------------|------|-------|----------------|---------------|---------------|----------------|------|
| T 1 | 4 42 23 | 9 ∡ 142'52 | 19 Y 34 | 7 ,₹ 31 | 0 ප 43 | 26 米 53 | 12 ≏ 45 | 25 ∺ 20 | 14) 15 | 3≈16 | 4°R43 | 0°R51 | 1 米 10 | 4 る 35 | 16 ∺ 30 | T 1 |
| F 2 | 4 46 20 | 10°43'48 | 3 8 43 | 9° 5 | 1°57 | 27°22 | 12°55 | 25°21 | 14°15 | 3°18 | 49542 | 0) €44 | 1° 7 | 4°42 | 16°30 | F 2 |
| S 3 | 4 50 16 | 11°44'44 | 18°21 | 10°39 | 3°12 | 27°51 | 13° 4 | 25°21 | 14°16 | 3°19 | 4°41 | 0°34 | 1° 3 | 4°49 | 16°31 | S 3 |
| S 4 | 4 54 13 | 12°45'42 | 3Ⅲ21 | 12°13 | 4°27 | 28°20 | 13°13 | 25°22 | 14°16 | 3°21 | 4°40 | 0°23 | 1° 0 | 4°55 | 16°31 | S 4 |
| M 5 | 4 58 10 | 13°46'40 | 18°35 | 13°48 | 5°42 | 28°49 | 13°23 | 25°23 | 14°17 | 3°23 | 4°39 | 0°11 | 0°57 | 5° 2 | 16°32 | M 5 |
| T 6 | 5 2 6 | 14°47'40 | 3951 | 15°22 | 6°57 | 29°19 | 13°32 | 25°24 | 14°17 | 3°24 | 4°37 | 0° 1 | 0°54 | 5° 9 | 16°32 | T 6 |
| W 7 | 5 6 3 | 15°48'40 | 18°59 | 16°56 | 8°12 | 29°49 | 13°41 | 25°25 | 14°18 | 3°26 | 4°36 | 29≈53 | 0°51 | 5°15 | 16°33 | W 7 |
| T 8 | 5 9 59 | 16°49'42 | 3 Ω 49 | 18°31 | 9°27 | 0 Υ 19 | 13°50 | 25°26 | 14°19 | 3°28 | 4°35 | 29°48 | 0°48 | 5°22 | 16°33 | T 8 |
| F 9 | 5 13 56 | 17°50'44 | 18°16 | 20° 5 | 10°41 | 0°49 | 13°58 | 25°27 | 14°20 | 3°29 | 4°34 | 29°46 | 0°44 | 5°29 | 16°34 | F 9 |
| S 10 | 5 17 52 | 18°51'47 | 2 m) 17 | 21°40 | 11°56 | 1°20 | 14° 7 | 25°28 | 14°20 | 3°31 | 4°33 | 29°D46 | 0°41 | 5°35 | 16°35 | S 10 |
| S 11 | 5 21 49 | 19°52'51 | 15°52 | 23°15 | 13°11 | 1°51 | 14°16 | 25°29 | 14°21 | 3°33 | 4°32 | 29°R46 | 0°38 | 5°42 | 16°36 | S 11 |
| M12 | 5 25 45 | 20°53'56 | 29° 4 | 24°50 | 14°26 | 2°22 | 14°24 | 25°31 | 14°22 | 3°34 | 4°30 | 29°46 | 0°35 | 5°49 | 16°36 | M12 |
| T 13 | 5 29 42 | 21°55'02 | 11 ≏ 56 | 26°25 | 15°40 | 2°53 | 14°32 | 25°33 | 14°23 | 3°36 | 4°29 | 29°44 | 0°32 | 5°56 | 16°37 | T 13 |
| W14 | 5 33 39 | 22°56'09 | 24°32 | 28° 0 | 16°55 | 3°24 | 14°40 | 25°34 | 14°24 | 3°38 | 4°28 | 29°39 | 0°29 | 6° 2 | 16°38 | W14 |
| T 15 | 5 37 35 | 23°57'16 | 6 M 54 | 29°36 | 18°10 | 3°56 | 14°49 | 25°36 | 14°26 | 3°40 | 4°27 | 29°32 | 0°25 | 6° 9 | 16°39 | T 15 |
| F 16 | 5 41 32 | 24°58'25 | 19° 7 | 1ਰ11 | 19°25 | 4°27 | 14°56 | 25°38 | 14°27 | 3°42 | 4°26 | 29°22 | 0°22 | 6°16 | 16°40 | F 16 |
| S 17 | 5 45 28 | 25°59'34 | 1 √ 12 | 2°47 | 20°39 | 4°59 | 15° 4 | 25°40 | 14°28 | 3°44 | 4°24 | 29°11 | 0°19 | 6°22 | 16°42 | S 17 |
| S 18 | 5 49 25 | 27° 0'43 | 13°11 | 4°23 | 21°54 | 5°31 | 15°12 | 25°42 | 14°29 | 3°46 | 4°23 | 28°58 | 0°16 | 6°29 | 16°43 | S 18 |
| M19 | 5 53 21 | 28° 1'53 | 25° 6 | 5°59 | 23° 9 | 6° 4 | 15°19 | 25°44 | 14°30 | 3°48 | 4°22 | 28°45 | 0°13 | 6°36 | 16°44 | M19 |
| T 20 | 5 57 18 | 29° 3'04 | 6 ප 57 | 7°36 | 24°24 | 6°36 | 15°27 | 25°47 | 14°32 | 3°49 | 4°21 | 28°34 | 0° 9 | 6°42 | 16°45 | T 20 |
| W21 | 6 1 14 | 0중 4'14 | 18°47 | 9°12 | 25°38 | 7° 9 | 15°34 | 25°49 | 14°33 | 3°51 | 4°19 | 28°25 | 0° 6 | 6°49 | 16°47 | W21 |
| T 22 | 6 5 1 1 | 1° 5'25 | 0≈36 | 10°48 | 26°53 | 7°41 | 15°41 | 25°52 | 14°35 | 3°53 | 4°18 | 28°18 | 0° 3 | 6°56 | 16°48 | T 22 |
| F 23 | 6 9 8 | 2° 6'36 | 12°28 | 12°25 | 28° 8 | 8°14 | 15°48 | 25°54 | 14°36 | 3°55 | 4°17 | 28°14 | 29≈59 | 7° 3 | 16°50 | F 23 |
| S 24 | 6 13 4 | 3° 7'47 | 24°26 | 14° 2 | 29°22 | 8°47 | 15°55 | 25°57 | 14°38 | 3°57 | 4°16 | 28°D12 | 29°57 | 7° 9 | 16°51 | S 24 |
| S 25 | 6 17 1 | 4° 8'58 | 6 ∺ 33 | 15°38 | 0≈37 | 9°21 | 16° 2 | 26° 0 | 14°39 | 3°59 | 4°15 | 28°13 | 29°54 | 7°16 | 16°53 | S 25 |
| M26 | 6 20 57 | 5°10'09 | 18°53 | 17°15 | 1°51 | 9°54 | 16° 8 | 26° 3 | 14°41 | 4° 1 | 4°13 | 28°14 | 29°50 | 7°23 | 16°54 | M26 |
| T 27 | 6 24 54 | 6°11'19 | 1 Y 32 | 18°51 | 3° 6 | 10°27 | 16°14 | 26° 6 | 14°43 | 4° 4 | 4°12 | 28°R15 | 29°47 | 7°29 | 16°56 | T 27 |
| W28 | 6 28 50 | 7°12'29 | 14°34 | 20°27 | 4°20 | 11° 1 | 16°21 | 26° 9 | 14°44 | 4° 6 | 4°11 | 28°14 | 29°44 | 7°36 | 16°58 | W28 |
| T 29 | 6 32 47 | 8°13'39 | 28° 2 | 22° 3 | 5°35 | 11°35 | 16°27 | 26°12 | 14°46 | 4° 8 | 4°10 | 28°12 | 29°41 | 7°43 | 16°59 | T 29 |
| F 30 | 6 36 43 | 9°14'49 | 128 0 | 23°38 | 6°49 | 12° 9 | 16°33 | 26°16 | 14°48 | 4°10 | 4° 8 | 28° 8 | 29°38 | 7°49 | 17° 1 | F 30 |
| S 31 | 6 40 40 | 10 ට 15'58 | 26 8 27 | 25 궁 12 | 8≈ 4 | 12 Y 43 | 16 ≏ 38 | 26 ∺ 19 | 14 米 50 | 4≈12 | 499 7 | 28≈ 2 | 29≈35 | 7 궁 56 | 17 米 3 | S 31 |

Delta T = 27.90 sec

JANUARY 1673 GC 00:00 UT

| ~ . | | | D | φ | Q- | δ | 4 | ħ |)Å(| ¥ | Р | ß | ಬ | Ç | ķ | Day |
|------|---------|-------------------|-----------------|----------------|----------------|----------------|----------------|------------------|----------------|------|-------|----------------|-------|----------------|----------------|------|
| S 1 | 6 44 37 | 11 る 17'07 | 11 I I19 | 26 궁 46 | 9≈18 | 13 Y 17 | 16 ♀ 44 | 26 米 23 | 14) 52 | 4≈14 | 4°R 6 | 27°R55 | 29≈31 | 8ට 3 | 17) 5 | S 1 |
| M 2 | 6 48 33 | 12°18'16 | 26°29 | 28°18 | 10°33 | 13°51 | 16°49 | 26°26 | 14°54 | 4°16 | 499 5 | 27 ≈ 48 | 29°28 | 8° 9 | 17° 7 | M 2 |
| T 3 | 6 52 30 | 13°19'25 | 119549 | 29°49 | 11°47 | 14°25 | 16°55 | 26°30 | 14°56 | 4°18 | 4° 4 | 27°41 | 29°25 | 8°16 | 17° 9 | T 3 |
| W 4 | 6 56 26 | 14°20'33 | 27° 6 | 1≈19 | 13° 1 | 15° 0 | 17° 0 | 26°34 | 14°58 | 4°21 | 4° 2 | 27°36 | 29°22 | 8°23 | 17°11 | W 4 |
| T 5 | 7 0 23 | 15°21'41 | 12 N 9 | 2°46 | 14°16 | 15°34 | 17° 5 | 26°38 | 15° 0 | 4°23 | 4° 1 | 27°33 | 29°19 | 8°30 | 17°13 | T 5 |
| F 6 | 7 4 19 | 16°22'49 | 26°52 | 4°11 | 15°30 | 16° 9 | 17°10 | 26°42 | 15° 2 | 4°25 | 4° 0 | 27°D32 | 29°15 | 8°36 | 17°15 | F 6 |
| S 7 | 7 8 16 | 17°23'57 | 11 m) 8 | 5°33 | 16°44 | 16°44 | 17°14 | 26°46 | 15° 4 | 4°27 | 3°59 | 27°33 | 29°12 | 8°43 | 17°18 | S 7 |
| S 8 | 7 12 13 | 18°25'04 | 24°55 | 6°51 | 17°58 | 17°18 | 17°19 | 26°50 | 15° 6 | 4°29 | 3°58 | 27°34 | 29° 9 | 8°50 | 17°20 | S 8 |
| M 9 | 7 16 9 | 19°26'11 | 8 ≏ 16 | 8° 5 | 19°12 | 17°53 | 17°23 | 26°54 | 15° 9 | 4°31 | 3°56 | 27°36 | 29° 6 | 8°56 | 17°22 | M 9 |
| T 10 | 7 20 6 | 20°27'19 | 21°12 | 9°14 | 20°27 | 18°28 | 17°27 | 26°58 | 15°11 | 4°34 | 3°55 | 27°R36 | 29° 3 | 9° 3 | 17°25 | T 10 |
| W11 | 7 24 2 | 21°28'26 | 3 M .48 | 10°17 | 21°41 | 19° 3 | 17°31 | 27° 3 | 15°13 | 4°36 | 3°54 | 27°35 | 29° 0 | 9°10 | 17°27 | W11 |
| T 12 | 7 27 59 | 22°29'33 | 16° 7 | 11°15 | 22°55 | 19°39 | 17°35 | 27° 7 | 15°15 | 4°38 | 3°53 | 27°33 | 28°56 | 9°16 | 17°29 | T 12 |
| F 13 | 7 31 55 | 23°30'39 | 28°14 | 12° 4 | 24° 9 | 20°14 | 17°38 | 27°12 | 15°18 | 4°40 | 3°52 | 27°29 | 28°53 | 9°23 | 17°32 | F 13 |
| S 14 | 7 35 52 | 24°31'45 | 10 × 12 | 12°46 | 25°23 | 20°49 | 17°42 | 27°16 | 15°20 | 4°43 | 3°51 | 27°23 | 28°50 | 9°30 | 17°34 | S 14 |
| S 15 | 7 39 48 | 25°32'51 | 22° 5 | 13°19 | 26°37 | 21°25 | 17°45 | 27°21 | 15°23 | 4°45 | 3°49 | 27°17 | 28°47 | 9°36 | 17°37 | S 15 |
| M16 | 7 43 45 | 26°33'56 | 3 ප 56 | 13°41 | 27°51 | 22° 0 | 17°48 | 27°26 | 15°25 | 4°47 | 3°48 | 27°11 | 28°44 | 9°43 | 17°40 | M16 |
| T 17 | 7 47 42 | 27°35'01 | 15°45 | 13°54 | 29° 4 | 22°36 | 17°51 | 27°31 | 15°28 | 4°49 | 3°47 | 27° 6 | 28°41 | 9°50 | 17°42 | T 17 |
| W18 | 7 51 38 | 28°36'05 | 27°37 | 13°R55 | 0 ∺ 18 | 23°11 | 17°54 | 27°36 | 15°30 | 4°52 | 3°46 | 27° 1 | 28°37 | 9°57 | 17°45 | W18 |
| T 19 | 7 55 35 | 29°37'08 | 9≈31 | 13°44 | 1°32 | 23°47 | 17°56 | 27°41 | 15°33 | 4°54 | 3°45 | 26°58 | 28°34 | 10° 3 | 17°48 | T 19 |
| F 20 | 7 59 31 | 0≈38'10 | 21°31 | 13°22 | 2°46 | 24°23 | 17°59 | 27°46 | 15°36 | 4°56 | 3°44 | 26°D57 | 28°31 | 10°10 | 17°50 | F 20 |
| S 21 | 8 3 28 | 1°39'11 | 3 ∺ 38 | 12°49 | 4° 0 | 24°59 | 18° 1 | 27°51 | 15°38 | 4°59 | 3°43 | 26°57 | 28°28 | 10°17 | 17°53 | S 21 |
| S 22 | 8 7 24 | 2°40'12 | 15°54 | 12° 5 | 5°13 | 25°35 | 18° 3 | 27°56 | 15°41 | 5° 1 | 3°42 | 26°58 | 28°25 | 10°23 | 17°56 | S 22 |
| M23 | 8 11 21 | 3°41'11 | 28°22 | 11°12 | 6°27 | 26°11 | 18° 5 | 28° 2 | 15°44 | 5° 3 | 3°41 | 27° 0 | 28°21 | 10°30 | 17°59 | M23 |
| T 24 | 8 15 17 | 4°42'09 | 11 Y 6 | 10°11 | 7°40 | 26°47 | 18° 6 | 28° 7 | 15°46 | 5° 5 | 3°40 | 27° 1 | 28°18 | 10°37 | 18° 2 | T 24 |
| W25 | 8 19 14 | 5°43'05 | 24° 8 | 9° 3 | 8°54 | 27°23 | 18° 8 | 28°13 | 15°49 | 5° 8 | 3°39 | 27° 3 | 28°15 | 10°43 | 18° 5 | W25 |
| T 26 | 8 23 11 | 6°44'00 | 7 8 31 | 7°52 | 10° 7 | 27°59 | 18° 9 | 28°18 | 15°52 | 5°10 | 3°38 | 27°R 3 | 28°12 | 10°50 | 18° 8 | T 26 |
| F 27 | 8 27 7 | 7°44'55 | 21°18 | 6°38 | 11°21 | 28°36 | 18°10 | 28°24 | 15°55 | 5°12 | 3°37 | 27° 3 | 28° 9 | 10°57 | 18°11 | F 27 |
| S 28 | 8 31 4 | 8°45'47 | 5 Ⅱ 28 | 5°24 | 12°34 | 29°12 | 18°11 | 28°30 | 15°58 | 5°14 | 3°36 | 27° 1 | 28° 6 | 11° 3 | 18°14 | S 28 |
| S 29 | 8 35 0 | 9°46'39 | 20° 0 | 4°12 | 13°47 | 29°48 | 18°11 | 28°35 | 16° 1 | 5°17 | 3°35 | 26°59 | 28° 2 | 11°10 | 18°17 | S 29 |
| M30 | 8 38 57 | 10°47'29 | 4951 | 3° 4 | 15° 0 | 0 8 25 | 18°12 | 28°41 | 16° 4 | 5°19 | 3°34 | 26°57 | 27°59 | 11°17 | 18°20 | M30 |
| T 31 | 8 42 53 | 11 ≈ 48'17 | 19953 | 2≈ 1 | 16 ∺ 14 | 18 1 | 18 ≏ 12 | 28) (47 | 16 ∺ 7 | 5≈21 | 3933 | 26≈55 | 27≈56 | 11 る 23 | 18) 23 | T 31 |

Delta T = 27.84 sec

Greg. Calendar

FEBRUARY 1673 GC 00:00 UT

| Day | Sid.t | 0 | 7 | φ | · | ð | 4 | ħ | 'n | ¥ | Р | ß | Ω | ţ | , K | Day |
|------|----------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|-------|--------|-------|----------------|----------------|------|
| W 1 | 8 46 50 | 12≈49'04 | 4 Ω 59 | 1°R 5 | 17) 27 | 1 8 38 | 18°R12 | 28 米 53 | 16 米 10 | 5≈24 | 3°R32 | 26°R53 | 27≈53 | 11 る 30 | 18 ∺ 26 | W 1 |
| T 2 | 8 50 46 | 13°49'50 | 19°58 | 0≈17 | 18°40 | 2°14 | 18 ≏ 12 | 28°59 | 16°13 | 5°26 | 3931 | 26°D53 | 27°50 | 11°37 | 18°29 | T 2 |
| F 3 | 8 54 43 | 14°50'35 | 4 Mp 42 | 29 궁 36 | 19°52 | 2°51 | 18°12 | 29° 5 | 16°16 | 5°28 | 3°30 | 26≈53 | 27°47 | 11°44 | 18°33 | F 3 |
| S 4 | 8 58 40 | 15°51'18 | 19° 6 | 29° 3 | 21° 5 | 3°27 | 18°11 | 29°11 | 16°19 | 5°30 | 3°29 | 26°53 | 27°43 | 11°50 | 18°36 | S 4 |
| S 5 | 9 2 36 | 16°52'00 | 3 ₾ 4 | 28°39 | 22°18 | 4° 4 | 18°11 | 29°17 | 16°22 | 5°33 | 3°28 | 26°54 | 27°40 | 11°57 | 18°39 | S 5 |
| M 6 | 9 633 | 17°52'41 | 16°35 | 28°22 | 23°31 | 4°41 | 18°10 | 29°24 | 16°25 | 5°35 | 3°27 | 26°55 | 27°37 | 12° 4 | 18°43 | M 6 |
| T 7 | 9 10 29 | 18°53'21 | 29°40 | 28°14 | 24°43 | 5°17 | 18° 9 | 29°30 | 16°28 | 5°37 | 3°27 | 26°56 | 27°34 | 12°10 | 18°46 | T 7 |
| W 8 | 9 14 26 | 19°54'00 | 12 M 22 | 28°D13 | 25°56 | 5°54 | 18° 8 | 29°36 | 16°31 | 5°39 | 3°26 | 26°56 | 27°31 | 12°17 | 18°49 | W 8 |
| T 9 | 9 18 22 | 20°54'38 | 24°45 | 28°19 | 27° 9 | 6°31 | 18° 6 | 29°43 | 16°34 | 5°41 | 3°25 | 26°R56 | 27°27 | 12°24 | 18°53 | T 9 |
| F 10 | 9 22 19 | 21°55'14 | 6 ₹ 52 | 28°31 | 28°21 | 7° 8 | 18° 5 | 29°49 | 16°37 | 5°44 | 3°24 | 26°56 | 27°24 | 12°30 | 18°56 | F 10 |
| S 11 | 9 26 15 | 22°55'49 | 18°49 | 28°50 | 29°33 | 7°44 | 18° 3 | 29°55 | 16°41 | 5°46 | 3°23 | 26°56 | 27°21 | 12°37 | 18°59 | S 11 |
| S 12 | 9 30 12 | 23°56'23 | 0중40 | 29°14 | 0 Υ 46 | 8°21 | 18° 1 | 0 Υ 2 | 16°44 | 5°48 | 3°23 | 26°55 | 27°18 | 12°44 | 19° 3 | S 12 |
| M13 | 9 34 9 | 24°56'56 | 12°29 | 29°44 | 1°58 | 8°58 | 17°59 | 0° 9 | 16°47 | 5°50 | 3°22 | 26°55 | 27°15 | 12°50 | 19° 6 | M13 |
| T 14 | 9 38 5 | 25°57'27 | 24°19 | 0≈18 | 3°10 | 9°35 | 17°56 | 0°15 | 16°50 | 5°52 | 3°21 | 26°55 | 27°12 | 12°57 | 19°10 | T 14 |
| W15 | 9 42 2 | 26°57'57 | 6≈14 | 0°57 | 4°22 | 10°12 | 17°54 | 0°22 | 16°54 | 5°55 | 3°21 | 26°D55 | 27° 8 | 13° 4 | 19°13 | W15 |
| T 16 | 9 45 58 | 27°58'25 | 18°16 | 1°41 | 5°34 | 10°49 | 17°51 | 0°29 | 16°57 | 5°57 | 3°20 | 26°55 | 27° 5 | 13°10 | 19°17 | T 16 |
| F 17 | 9 49 55 | 28°58'52 | 0 ∺ 27 | 2°27 | 6°46 | 11°26 | 17°48 | 0°35 | 17° 0 | 5°59 | 3°19 | 26°R55 | 27° 2 | 13°17 | 19°20 | F 17 |
| S 18 | 9 53 51 | 29°59'17 | 12°49 | 3°18 | 7°57 | 12° 3 | 17°45 | 0°42 | 17° 4 | 6° 1 | 3°19 | 26°55 | 26°59 | 13°24 | 19°24 | S 18 |
| S 19 | 9 57 48 | 0 ¥ 59'40 | 25°22 | 4°12 | 9° 9 | 12°41 | 17°42 | 0°49 | 17° 7 | 6° 3 | 3°18 | 26°54 | 26°56 | 13°30 | 19°28 | S 19 |
| M20 | 10 1 44 | 2° 0'01 | 8 Y 8 | 5° 8 | 10°20 | 13°18 | 17°38 | 0°56 | 17°10 | 6° 5 | 3°18 | 26°54 | 26°53 | 13°37 | 19°31 | M20 |
| T 21 | 10 5 41 | 3° 0'21 | 21° 8 | 6° 8 | 11°32 | 13°55 | 17°35 | 1° 3 | 17°14 | 6° 7 | 3°17 | 26°53 | 26°49 | 13°44 | 19°35 | T 21 |
| W22 | 10 9 38 | 4° 0'38 | 4822 | 7°10 | 12°43 | 14°32 | 17°31 | 1°10 | 17°17 | 6° 9 | 3°17 | 26°52 | 26°46 | 13°51 | 19°38 | W22 |
| T 23 | 10 13 34 | 5° 0'54 | 1 <u>7</u> °52 | 8°15 | 13°55 | 15° 9 | 17°27 | 1°17 | 17°20 | 6°12 | 3°16 | 26°52 | 26°43 | 13°57 | 19°42 | T 23 |
| F 24 | 10 17 31 | 6° 1'07 | 1 Ⅱ 36 | 9°21 | 15° 6 | 15°46 | 17°23 | 1°24 | 17°24 | 6°14 | 3°16 | 26°D51 | 26°40 | 14° 4 | 19°46 | F 24 |
| S 25 | 10 21 27 | 7° 1'19 | 15°37 | 10°30 | 16°17 | 16°24 | 17°18 | 1°31 | 17°27 | 6°16 | 3°15 | 26°51 | 26°37 | 14°11 | 19°49 | S 25 |
| S 26 | 10 25 24 | 8° 1'28 | 29°51 | 11°41 | 17°28 | 17° 1 | 17°14 | 1°38 | 17°30 | 6°18 | 3°15 | 26°52 | 26°33 | 14°17 | 19°53 | S 26 |
| M27 | 10 29 20 | 9° 1'35 | 149518 | 12°54 | 18°38 | 17°38 | 17° 9 | 1°45 | 17°34 | 6°20 | 3°14 | 26°53 | 26°30 | 14°24 | 19°57 | M27 |
| T 28 | 10 33 17 | 10 米 1'40 | 28954 | 14≈ 9 | 19 Ƴ 49 | 18 8 16 | 17 ♀ 5 | 1 Υ 52 | 17) 37 | 6≈22 | 39514 | 26≈54 | 26≈27 | 14 ට 31 | 20 米 0 | T 28 |

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| Day | Sid.t | \odot | D | Σ + | Ŷ | δ | 4 | ħ |)Å(| 卉 | Р | ß | Ω | Ç | ę, | Day |
|------|----------|-------------------|-----------------|---------------|---------------|----------------|----------------|---------------|------------------|------|----------------|--------|-------|----------------|----------------|------|
| W 1 | 10 37 13 | 11) 1'43 | 13 £ 34 | 15≈26 | 21 Y 0 | 18 8 53 | 17°R 0 | 1 Υ 59 | 17) (41 | 6≈24 | 3°R13 | 26≈55 | 26≈24 | 14 궁 37 | 20) 4 | W 1 |
| T 2 | 10 41 10 | 12° 1'44 | 28°11 | 16°44 | 22°10 | 19°30 | 16 ≏ 55 | 2° 7 | 17°44 | 6°26 | 3 9 513 | 26°R55 | 26°21 | 14°44 | 20° 8 | T 2 |
| F 3 | 10 45 7 | 13° 1'43 | 12 M)40 | 18° 3 | 23°20 | 20° 8 | 16°49 | 2°14 | 17°48 | 6°27 | 3°13 | 26°54 | 26°18 | 14°51 | 20°11 | F 3 |
| S 4 | 10 49 3 | 14° 1'39 | 26°55 | 19°25 | 24°30 | 20°45 | 16°44 | 2°21 | 17°51 | 6°29 | 3°12 | 26°53 | 26°14 | 14°57 | 20°15 | S 4 |
| S 5 | 10 53 0 | 15° 1'34 | 10 ♀ 50 | 20°47 | 25°41 | 21°22 | 16°38 | 2°28 | 17°54 | 6°31 | 3°12 | 26°51 | 26°11 | 15° 4 | 20°19 | S 5 |
| M 6 | 10 56 56 | 16° 1'28 | 24°24 | 22°12 | 26°50 | 22° 0 | 16°33 | 2°36 | 17°58 | 6°33 | 3°12 | 26°48 | 26° 8 | 15°11 | 20°22 | M 6 |
| T 7 | 11 053 | 17° 1'19 | 7 M .33 | 23°37 | 28° 0 | 22°37 | 16°27 | 2°43 | 18° 1 | 6°35 | 3°12 | 26°45 | 26° 5 | 15°17 | 20°26 | T 7 |
| W 8 | 11 449 | 18° 1'09 | 20°21 | 25° 4 | 29°10 | 23°14 | 16°21 | 2°50 | 18° 5 | 6°37 | 3°11 | 26°43 | 26° 2 | 15°24 | 20°30 | W 8 |
| T 9 | 11 8 46 | 19° 0'57 | 2 ₹ 48 | 26°32 | 0819 | 23°52 | 16°15 | 2°58 | 18° 8 | 6°39 | 3°11 | 26°41 | 25°59 | 15°31 | 20°34 | T 9 |
| F 10 | 11 12 42 | 20° 0'43 | 14°59 | 28° 2 | 1°29 | 24°29 | 16° 9 | 3° 5 | 18°12 | 6°40 | 3°11 | 26°D40 | 25°55 | 15°37 | 20°37 | F 10 |
| S 11 | 11 16 39 | 21° 0'28 | 26°57 | 29°33 | 2°38 | 25° 7 | 16° 3 | 3°13 | 18°15 | 6°42 | 3°11 | 26°40 | 25°52 | 15°44 | 20°41 | S 11 |
| S 12 | 11 20 36 | 22° 0'11 | 8 云 49 | 1) 5 | 3°47 | 25°44 | 15°56 | 3°20 | 18°18 | 6°44 | 3°11 | 26°41 | 25°49 | 15°51 | 20°45 | S 12 |
| M13 | 11 24 32 | 22°59'52 | 20°38 | 2°39 | 4°56 | 26°21 | 15°50 | 3°27 | 18°22 | 6°46 | 3°11 | 26°42 | 25°46 | 15°57 | 20°49 | M13 |
| T 14 | 11 28 29 | 23°59'31 | 2≈30 | 4°14 | 6° 5 | 26°59 | 15°43 | 3°35 | 18°25 | 6°47 | 3°11 | 26°44 | 25°43 | 16° 4 | 20°52 | T 14 |
| W15 | 11 32 25 | 24°59'09 | 14°28 | 5°50 | 7°13 | 27°36 | 15°36 | 3°42 | 18°29 | 6°49 | 3°11 | 26°46 | 25°39 | 16°11 | 20°56 | W15 |
| T 16 | 11 36 22 | 25°58'44 | 26°37 | 7°27 | 8°22 | 28°14 | 15°30 | 3°50 | 18°32 | 6°51 | 3°11 | 26°R46 | 25°36 | 16°17 | 21° 0 | T 16 |
| F 17 | 11 40 18 | 26°58'18 | 9 米 0 | 9° 6 | 9°30 | 28°51 | 15°23 | 3°57 | 18°36 | 6°52 | 3°D11 | 26°45 | 25°33 | 16°24 | 21° 3 | F 17 |
| S 18 | 11 44 15 | 27°57'50 | 21°38 | 10°46 | 10°38 | 29°29 | 15°16 | 4° 5 | 18°39 | 6°54 | 3°11 | 26°43 | 25°30 | 16°31 | 21° 7 | S 18 |
| S 19 | 11 48 11 | 28°57'19 | 4 Υ31 | 12°27 | 11°46 | 0耳 6 | 15° 9 | 4°12 | 18°42 | 6°55 | 3°11 | 26°39 | 25°27 | 16°37 | 21°11 | S 19 |
| M20 | 11 52 8 | 29°56'47 | 17°41 | 14° 9 | 12°54 | 0°44 | 15° 1 | 4°20 | 18°46 | 6°57 | 3°11 | 26°34 | 25°24 | 16°44 | 21°15 | M20 |
| T 21 | 11 56 4 | 0 Υ 56'12 | 1 8 5 | 15°53 | 14° 1 | 1°21 | 14°54 | 4°27 | 18°49 | 6°59 | 3°11 | 26°29 | 25°20 | 16°51 | 21°18 | T 21 |
| W22 | 12 0 1 | 1°55'35 | 14°42 | 17°38 | 15° 9 | 1°59 | 14°47 | 4°35 | 18°52 | 7° 0 | 3°11 | 26°23 | 25°17 | 16°58 | 21°22 | W22 |
| T 23 | 12 3 58 | 2°54'57 | 28°30 | 19°25 | 16°16 | 2°36 | 14°39 | 4°42 | 18°56 | 7° 2 | 3°11 | 26°18 | 25°14 | 17° 4 | 21°26 | T 23 |
| F 24 | 12 7 54 | 3°54'15 | 12∏26 | 21°13 | 17°23 | 3°14 | 14°32 | 4°50 | 18°59 | 7° 3 | 3°11 | 26°15 | 25°11 | 17°11 | 21°29 | F 24 |
| S 25 | 12 11 51 | 4°53'32 | 26°29 | 23° 2 | 18°30 | 3°52 | 14°25 | 4°57 | 19° 3 | 7° 4 | 3°11 | 26°13 | 25° 8 | 17°18 | 21°33 | S 25 |
| S 26 | 12 15 47 | 5°52'46 | 10937 | 24°53 | 19°36 | 4°29 | 14°17 | 5° 5 | 19° 6 | 7° 6 | 3°12 | 26°D13 | 25° 4 | 17°24 | 21°37 | S 26 |
| M27 | 12 19 44 | 6°51'58 | 24°48 | 26°45 | 20°42 | 5° 7 | 14° 9 | 5°13 | 19° 9 | 7° 7 | 3°12 | 26°14 | 25° 1 | 17°31 | 21°40 | M27 |
| T 28 | 12 23 40 | 7°51'07 | 9 N 1 | 28°38 | 21°49 | 5°44 | 14° 2 | 5°20 | 19°12 | 7° 9 | 3°12 | 26°15 | 24°58 | 17°38 | 21°44 | T 28 |
| W29 | 12 27 37 | 8°50'14 | 23°13 | 0 Υ 33 | 22°54 | 6°22 | 13°54 | 5°28 | 19°16 | 7°10 | 3°12 | 26°R16 | 24°55 | 17°44 | 21°47 | W29 |
| T 30 | 12 31 34 | 9°49'19 | 7 ⋒ 23 | 2°29 | 24° 0 | 6°59 | 13°47 | 5°35 | 19°19 | 7°11 | 3°13 | 26°15 | 24°52 | 17°51 | 21°51 | T 30 |
| F 31 | 12 35 30 | 10 Y 48'21 | 21 Mp 26 | 4Υ 26 | 25 8 6 | 7 Ⅲ 37 | 13 ≏ 39 | 5 Ƴ 43 | 19 ∺ 22 | 7≈12 | 3 9 513 | 26≈13 | 24≈49 | 17 る 58 | 21 米 55 | F 31 |

Delta T = 27.74 sec Greg.

Greg. Calendar

APRIL 1673 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)Å(| Ħ, | Р | U | ಬ | Ç | ę, | Day |
|------|----------|-------------------|----------------|---------------|-------|---------------|----------------|---------------|----------------|---------------|-------|--------|-------|----------------|----------------|------|
| S 1 | 12 39 27 | 11 ° 47'21 | 5 ₾ 19 | 6 Y 25 | 26811 | 8 Ⅱ 14 | 13°R31 | 5 ℃ 50 | 19 米 26 | 7≈14 | 39913 | 26°R 8 | 24≈45 | 18 ට 4 | 21 米 58 | S 1 |
| S 2 | 12 43 23 | 12°46'19 | 18°59 | 8°25 | 27°16 | 8°52 | 13 ≏ 23 | 5°58 | 19°29 | 7°15 | 3°14 | 26≈ 2 | 24°42 | 18°11 | 22° 2 | S 2 |
| M 3 | 12 47 20 | 13°45'15 | 2M21 | 10°26 | 28°20 | 9°29 | 13°16 | 6° 5 | 19°32 | 7°16 | 3°14 | 25°54 | 24°39 | 18°18 | 22° 5 | M 3 |
| T 4 | 12 51 16 | 14°44'10 | 15°26 | 12°28 | 29°25 | 10° 7 | 13° 8 | 6°13 | 19°35 | 7°17 | 3°15 | 25°45 | 24°36 | 18°24 | 22° 9 | T 4 |
| W 5 | 12 55 13 | 15°43'02 | 28°11 | 14°32 | 0П29 | 10°45 | 13° 0 | 6°20 | 19°38 | 7°18 | 3°15 | 25°37 | 24°33 | 18°31 | 22°12 | W 5 |
| T 6 | 12 59 9 | 16°41'53 | 10 ∡ 38 | 16°36 | 1°33 | 11°22 | 12°53 | 6°28 | 19°41 | 7°19 | 3°15 | 25°30 | 24°30 | 18°38 | 22°16 | T 6 |
| F 7 | 13 3 6 | 17°40'42 | 22°49 | 18°42 | 2°36 | 12° 0 | 12°45 | 6°35 | 19°45 | 7°20 | 3°16 | 25°25 | 24°26 | 18°44 | 22°19 | F 7 |
| S 8 | 13 7 2 | 18°39'29 | 4 る 49 | 20°47 | 3°40 | 12°37 | 12°37 | 6°42 | 19°48 | 7°22 | 3°16 | 25°21 | 24°23 | 18°51 | 22°23 | S 8 |
| S 9 | 13 10 59 | 19°38'14 | 16°41 | 22°54 | 4°43 | 13°15 | 12°30 | 6°50 | 19°51 | 7°23 | 3°17 | 25°D20 | 24°20 | 18°58 | 22°26 | S 9 |
| M10 | 13 14 56 | 20°36'58 | 28°31 | 25° 1 | 5°45 | 13°52 | 12°22 | 6°57 | 19°54 | 7°23 | 3°18 | 25°20 | 24°17 | 19° 4 | 22°29 | M10 |
| T 11 | 13 18 52 | 21°35'39 | 10≈23 | 27° 7 | 6°48 | 14°30 | 12°15 | 7° 5 | 19°57 | 7°24 | 3°18 | 25°21 | 24°14 | 19°11 | 22°33 | T 11 |
| W12 | 13 22 49 | 22°34'19 | 22°23 | 29°13 | 7°50 | 15° 7 | 12° 7 | 7°12 | 20° 0 | 7°25 | 3°19 | 25°R22 | 24°10 | 19°18 | 22°36 | W12 |
| T 13 | 13 26 45 | 23°32'58 | 4 ∺ 37 | 1 8 19 | 8°51 | 15°45 | 12° 0 | 7°19 | 20° 3 | 7°26 | 3°19 | 25°22 | 24° 7 | 19°24 | 22°39 | T 13 |
| F 14 | 13 30 42 | 24°31'34 | 17° 7 | 3°24 | 9°53 | 16°23 | 11°52 | 7°27 | 20° 6 | 7°27 | 3°20 | 25°19 | 24° 4 | 19°31 | 22°43 | F 14 |
| S 15 | 13 34 38 | 25°30'09 | 29°57 | 5°28 | 10°54 | 17° 0 | 11°45 | 7°34 | 20° 9 | 7°28 | 3°21 | 25°15 | 24° 1 | 19°38 | 22°46 | S 15 |
| S 16 | 13 38 35 | 26°28'42 | 13 Y 8 | 7°30 | 11°54 | 17°38 | 11°38 | 7°41 | 20°12 | 7°29 | 3°21 | 25° 8 | 23°58 | 19°44 | 22°49 | S 16 |
| M17 | 13 42 31 | 27°27'13 | 26°40 | 9°30 | 12°55 | 18°15 | 11°30 | 7°48 | 20°15 | 7°29 | 3°22 | 24°59 | 23°55 | 19°51 | 22°52 | M17 |
| T 18 | 13 46 28 | 28°25'42 | 10830 | 11°29 | 13°55 | 18°53 | 11°23 | 7°56 | 20°18 | 7°30 | 3°23 | 24°48 | 23°51 | 19°58 | 22°56 | T 18 |
| W19 | 13 50 25 | 29°24'10 | 24°34 | 13°24 | 14°54 | 19°30 | 11°16 | 8° 3 | 20°21 | 7°31 | 3°23 | 24°38 | 23°48 | 20° 4 | 22°59 | W19 |
| T 20 | 13 54 21 | 0 8 22'35 | 8∏48 | 15°17 | 15°53 | 20° 8 | 11° 9 | 8°10 | 20°23 | 7°31 | 3°24 | 24°29 | 23°45 | 20°11 | 23° 2 | T 20 |
| F 21 | 13 58 18 | 1°20'59 | 23° 6 | 17° 7 | 16°52 | 20°45 | 11° 2 | 8°17 | 20°26 | 7°32 | 3°25 | 24°21 | 23°42 | 20°18 | 23° 5 | F 21 |
| S 22 | 14 2 14 | 2°19'20 | 79524 | 18°54 | 17°50 | 21°23 | 10°55 | 8°24 | 20°29 | 7°33 | 3°26 | 24°17 | 23°39 | 20°24 | 23° 8 | S 22 |
| S 23 | 14 611 | 3°17'39 | 21°38 | 20°37 | 18°48 | 22° 1 | 10°49 | 8°31 | 20°32 | 7°33 | 3°27 | 24°15 | 23°36 | 20°31 | 23°11 | S 23 |
| M24 | 14 10 7 | 4°15'56 | 5 Ω 46 | 22°17 | 19°45 | 22°38 | 10°42 | 8°39 | 20°34 | 7°34 | 3°27 | 24°D14 | 23°32 | 20°38 | 23°14 | M24 |
| T 25 | 14 14 4 | 5°14'11 | 19°48 | 23°53 | 20°42 | 23°16 | 10°36 | 8°46 | 20°37 | 7°34 | 3°28 | 24°R14 | 23°29 | 20°44 | 23°17 | T 25 |
| W26 | 14 18 0 | 6°12'24 | 3 Mp 42 | 25°25 | 21°38 | 23°53 | 10°29 | 8°53 | 20°40 | 7°35 | 3°29 | 24°14 | 23°26 | 20°51 | 23°20 | W26 |
| T 27 | 14 21 57 | 7°10'34 | 17°28 | 26°53 | 22°34 | 24°31 | 10°23 | 9° 0 | 20°42 | 7°35 | 3°30 | 24°12 | 23°23 | 20°58 | 23°23 | T 27 |
| F 28 | 14 25 54 | 8° 8'43 | 1 º 5 | 28°17 | 23°29 | 25° 8 | 10°17 | 9° 6 | 20°45 | 7°35 | 3°31 | 24° 8 | 23°20 | 21° 4 | 23°26 | F 28 |
| S 29 | 14 29 50 | 9° 6'50 | 14°33 | 29°36 | 24°24 | 25°46 | 10°11 | 9°13 | 20°47 | 7°36 | 3°32 | 24° 1 | 23°16 | 21°11 | 23°29 | S 29 |
| S 30 | 14 33 47 | 108 4'55 | 27 ≙ 50 | 0耳52 | 25耳18 | 26Ⅲ23 | 10 ♀ 5 | 9 Υ 20 | 20 ∺ 50 | 7 ≈ 36 | 3933 | 23≈51 | 23≈13 | 21 궁 18 | 23 米 31 | S 30 |

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|------|----------|----------|-----------------|----------------|-----------------|---------------|---------------|----------------|----------------|-------|-------|--------|-------|----------------|----------------|------|
| M 1 | 14 37 43 | 118 2'58 | 10 M 54 | 2 I I 3 | 26 I I11 | 27 I 1 | 9°R59 | 9 Υ 27 | 20 米 52 | 7≈36 | 3934 | 23°R39 | 23≈10 | 21 る 24 | 23) 34 | M 1 |
| T 2 | 14 41 40 | 12° 1'00 | 23°44 | 3° 9 | 27° 4 | 27°38 | 9 ≙ 54 | 9°34 | 20°55 | 7°37 | 3°35 | 23≈26 | 23° 7 | 21°31 | 23°37 | T 2 |
| W 3 | 14 45 36 | 12°59'00 | 6 ₹ 19 | 4°11 | 27°56 | 28°16 | 9°48 | 9°41 | 20°57 | 7°37 | 3°36 | 23°14 | 23° 4 | 21°38 | 23°40 | W 3 |
| T 4 | 14 49 33 | 13°56'58 | 18°40 | 5° 9 | 28°48 | 28°53 | 9°43 | 9°47 | 21° 0 | 7°37 | 3°37 | 23° 3 | 23° 1 | 21°44 | 23°42 | T 4 |
| F 5 | 14 53 29 | 14°54'55 | 0 궁 47 | 6° 2 | 29°39 | 29°31 | 9°38 | 9°54 | 21° 2 | 7°37 | 3°38 | 22°54 | 22°57 | 21°51 | 23°45 | F 5 |
| S 6 | 14 57 26 | 15°52'51 | 12°45 | 6°50 | 0929 | 029 8 | 9°32 | 10° 0 | 21° 4 | 7°37 | 3°39 | 22°47 | 22°54 | 21°58 | 23°48 | S 6 |
| S 7 | 15 1 23 | 16°50'46 | 24°36 | 7°33 | 1°18 | 0°46 | 9°28 | 10° 7 | 21° 7 | 7°38 | 3°40 | 22°44 | 22°51 | 22° 4 | 23°50 | S 7 |
| M 8 | 15 5 19 | 17°48'39 | 6≈25 | 8°12 | 2° 7 | 1°24 | 9°23 | 10°14 | 21° 9 | 7°38 | 3°41 | 22°42 | 22°48 | 22°11 | 23°53 | M 8 |
| T 9 | 15 9 16 | 18°46'30 | 18°16 | 8°46 | 2°55 | 2° 1 | 9°18 | 10°20 | 21°11 | 7°R38 | 3°42 | 22°42 | 22°45 | 22°18 | 23°55 | T 9 |
| W10 | 15 13 12 | 19°44'21 | 0 ∺ 17 | 9°15 | 3°42 | 2°39 | 9°14 | 10°26 | 21°13 | 7°38 | 3°43 | 22°42 | 22°42 | 22°24 | 23°58 | W10 |
| T 11 | 15 17 9 | 20°42'10 | 12°31 | 9°39 | 4°28 | 3°16 | 9° 9 | 10°33 | 21°15 | 7°38 | 3°44 | 22°41 | 22°38 | 22°31 | 24° 0 | T 11 |
| F 12 | 15 21 5 | 21°39'58 | 25° 3 | 9°58 | 5°13 | 3°54 | 9° 5 | 10°39 | 21°17 | 7°38 | 3°46 | 22°38 | 22°35 | 22°38 | 24° 2 | F 12 |
| S 13 | 15 25 2 | 22°37'45 | 7 Ƴ 59 | 10°12 | 5°57 | 4°31 | 9° 1 | 10°45 | 21°20 | 7°37 | 3°47 | 22°33 | 22°32 | 22°44 | 24° 5 | S 13 |
| S 14 | 15 28 58 | 23°35'31 | 21°20 | 10°21 | 6°41 | 5° 9 | 8°57 | 10°52 | 21°22 | 7°37 | 3°48 | 22°25 | 22°29 | 22°51 | 24° 7 | S 14 |
| M15 | 15 32 55 | 24°33'15 | 5 8 7 | 10°R26 | 7°23 | 5°46 | 8°54 | 10°58 | 21°24 | 7°37 | 3°49 | 22°15 | 22°26 | 22°58 | 24° 9 | M15 |
| T 16 | 15 36 52 | 25°30'58 | 19°16 | 10°25 | 8° 5 | 6°24 | 8°50 | 11° 4 | 21°25 | 7°37 | 3°50 | 22° 4 | 22°22 | 23° 4 | 24°11 | T 16 |
| W17 | 15 40 48 | 26°28'40 | 3 Ⅱ 44 | 10°20 | 8°45 | 7° 1 | 8°47 | 11°10 | 21°27 | 7°37 | 3°52 | 21°52 | 22°19 | 23°11 | 24°13 | W17 |
| T 18 | 15 44 45 | 27°26'21 | 18°23 | 10°11 | 9°24 | 7°39 | 8°44 | 11°16 | 21°29 | 7°36 | 3°53 | 21°42 | 22°16 | 23°18 | 24°16 | T 18 |
| F 19 | 15 48 41 | 28°24'01 | 395 6 | 9°57 | 10° 2 | 8°16 | 8°41 | 11°22 | 21°31 | 7°36 | 3°54 | 21°33 | 22°13 | 23°24 | 24°18 | F 19 |
| S 20 | 15 52 38 | 29°21'39 | 17°46 | 9°40 | 10°39 | 8°54 | 8°38 | 11°28 | 21°33 | 7°36 | 3°55 | 21°28 | 22°10 | 23°31 | 24°20 | S 20 |
| S 21 | 15 56 34 | 0∏19'15 | 2 Ω 16 | 9°19 | 11°15 | 9°31 | 8°35 | 11°34 | 21°34 | 7°35 | 3°57 | 21°25 | 22° 7 | 23°38 | 24°22 | S 21 |
| M22 | 16 0 31 | 1°16'50 | 16°33 | 8°54 | 11°49 | 10° 9 | 8°33 | 11°40 | 21°36 | 7°35 | 3°58 | 21°D24 | 22° 3 | 23°44 | 24°23 | M22 |
| T 23 | 16 4 27 | 2°14'23 | 0 m y35 | 8°27 | 12°23 | 10°46 | 8°30 | 11°45 | 21°38 | 7°35 | 3°59 | 21°R24 | 22° 0 | 23°51 | 24°25 | T 23 |
| W24 | 16 8 24 | 3°11'55 | 14°23 | 7°57 | 12°54 | 11°24 | 8°28 | 11°51 | 21°39 | 7°34 | 4° 0 | 21°23 | 21°57 | 23°58 | 24°27 | W24 |
| T 25 | 16 12 21 | 4° 9'26 | 27°56 | 7°26 | 13°24 | 12° 1 | 8°26 | 11°56 | 21°41 | 7°34 | 4° 2 | 21°22 | 21°54 | 24° 4 | 24°29 | T 25 |
| F 26 | 16 16 17 | 5° 6'55 | 11 ≏ 15 | 6°53 | 13°53 | 12°39 | 8°25 | 12° 2 | 21°42 | 7°33 | 4° 3 | 21°17 | 21°51 | 24°11 | 24°31 | F 26 |
| S 27 | 16 20 14 | 6° 4'23 | 24°23 | 6°19 | 14°20 | 13°16 | 8°23 | 12° 7 | 21°44 | 7°33 | 4° 4 | 21°10 | 21°47 | 24°18 | 24°32 | S 27 |
| S 28 | 16 24 10 | 7° 1'49 | 7 ™ 18 | 5°46 | 14°46 | 13°54 | 8°22 | 12°13 | 21°45 | 7°32 | 4° 6 | 21° 1 | 21°44 | 24°24 | 24°34 | S 28 |
| M29 | 16 28 7 | 7°59'15 | 20° 2 | 5°12 | 15° 9 | 14°31 | 8°20 | 12°18 | 21°47 | 7°32 | 4° 7 | 20°50 | 21°41 | 24°31 | 24°35 | M29 |
| T 30 | 16 32 3 | 8°56'40 | 2 ₹ 34 | 4°40 | 15°31 | 15° 9 | 8°19 | 12°23 | 21°48 | 7°31 | 4° 8 | 20°37 | 21°38 | 2 <u>4</u> °38 | 24°37 | T 30 |
| W31 | 16 36 0 | 9∏54'03 | 14 × 755 | 4 Ⅱ 10 | 15952 | 159646 | 8 亞 19 | 12 Y 29 | 21) 49 | 7≈30 | 49910 | 20≈25 | 21≈35 | 24 중 44 | 24) 38 | W31 |

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| Day | Sid.t | \odot | D | φ | Ŷ | ď | 4 | ħ |)Å(| ¥ | 2 | n | Ω | ţ | Š | Day |
|------|----------|------------------|-----------------|-------|--------|---------------|---------------|----------------|----------------|-------|-------|----------------|-------|----------------|------------------|------|
| T 1 | 16 39 57 | 10∏51′26 | 27 ₹ 6 | 3°R41 | 169510 | 169524 | 8°R18 | 12 Y 34 | 21) 51 | 7°R30 | 49511 | 20°R15 | 21≈32 | 24 궁 51 | 24) (40 | T 1 |
| F 2 | 16 43 53 | 11°48'48 | 9 궁 7 | 3耳15 | 16°27 | 17° 1 | 8 ≏ 17 | 12°39 | 21°52 | 7≈29 | 4°13 | 20≈ 6 | 21°28 | 24°58 | 24°41 | F 2 |
| S 3 | 16 47 50 | 12°46'09 | 21° 0 | 2°52 | 16°41 | 17°39 | 8°17 | 12°44 | 21°53 | 7°28 | 4°14 | 20° 0 | 21°25 | 25° 4 | 24°43 | S 3 |
| S 4 | 16 51 46 | 13°43'30 | 2≈49 | 2°32 | 16°54 | 18°16 | 8°D17 | 12°49 | 21°54 | 7°27 | 4°15 | 19°56 | 21°22 | 25°11 | 24°44 | S 4 |
| M 5 | 16 55 43 | 14°40'50 | 14°36 | 2°16 | 17° 4 | 18°54 | 8°17 | 12°54 | 21°55 | 7°27 | 4°17 | 19°D54 | 21°19 | 25°18 | 24°45 | M 5 |
| T 6 | 16 59 39 | 15°38'09 | 26°27 | 2° 4 | 17°12 | 19°31 | 8°17 | 12°58 | 21°56 | 7°26 | 4°18 | 19°54 | 21°16 | 25°24 | 24°46 | T 6 |
| W 7 | 17 3 36 | 16°35'28 | 8 ∺ 27 | 1°56 | 17°18 | 20° 9 | 8°18 | 13° 3 | 21°57 | 7°25 | 4°20 | 19°55 | 21°13 | 25°31 | 24°47 | W 7 |
| T 8 | 17 7 32 | 17°32'46 | 20°40 | 1°D53 | 17°22 | 20°46 | 8°18 | 13° 8 | 21°58 | 7°24 | 4°21 | 19°R55 | 21° 9 | 25°38 | 24°48 | T 8 |
| F 9 | 17 11 29 | 18°30'04 | 3 Υ 12 | 1°53 | 17°R24 | 21°24 | 8°19 | 13°12 | 21°59 | 7°23 | 4°23 | 19°54 | 21° 6 | 25°44 | 24°49 | F 9 |
| S 10 | 17 15 26 | 19°27'22 | 16° 7 | 1°59 | 17°23 | 22° 1 | 8°20 | 13°17 | 22° 0 | 7°22 | 4°24 | 19°51 | 21° 3 | 25°51 | 24°50 | S 10 |
| S 11 | 17 19 22 | 20°24'39 | 29°29 | 2° 9 | 17°20 | 22°39 | 8°21 | 13°21 | 22° 0 | 7°21 | 4°26 | 19°46 | 21° 0 | 25°58 | 24°51 | S 11 |
| M12 | 17 23 19 | 21°21'56 | 13 8 19 | 2°23 | 17°15 | 23°16 | 8°22 | 13°25 | 22° 1 | 7°20 | 4°27 | 19°39 | 20°57 | 26° 4 | 24°52 | M12 |
| T 13 | 17 27 15 | 22°19'13 | 27°37 | 2°42 | 17° 7 | 23°54 | 8°24 | 13°30 | 22° 2 | 7°19 | 4°28 | 19°30 | 20°53 | 26°11 | 24°53 | T 13 |
| W14 | 17 31 12 | 23°16'29 | 12 Ⅱ 17 | 3° 6 | 16°57 | 24°31 | 8°25 | 13°34 | 22° 2 | 7°18 | 4°30 | 19°22 | 20°50 | 26°18 | 24°54 | W14 |
| T 15 | 17 35 8 | 24°13'45 | 27°13 | 3°34 | 16°44 | 25° 9 | 8°27 | 13°38 | 22° 3 | 7°17 | 4°31 | 19°14 | 20°47 | 26°24 | 24°54 | T 15 |
| F 16 | 17 39 5 | 25°11'01 | 129516 | 4° 7 | 16°29 | 25°47 | 8°29 | 13°42 | 22° 3 | 7°16 | 4°33 | 19° 8 | 20°44 | 26°31 | 24°55 | F 16 |
| S 17 | 17 43 1 | 26° 8'16 | 27°16 | 4°44 | 16°12 | 26°24 | 8°31 | 13°46 | 22° 4 | 7°15 | 4°34 | 19° 4 | 20°41 | 26°37 | 24°56 | S 17 |
| S 18 | 17 46 58 | 27° 5'30 | 12Ω 5 | 5°26 | 15°52 | 27° 2 | 8°34 | 13°50 | 22° 4 | 7°14 | 4°36 | 19°D 2 | 20°38 | 26°44 | 24°56 | S 18 |
| M19 | 17 50 55 | 28° 2'44 | 26°38 | 6°12 | 15°30 | 27°39 | 8°36 | 13°53 | 22° 5 | 7°13 | 4°37 | 19° 2 | 20°34 | 26°51 | 24°57 | M19 |
| T 20 | 17 54 51 | 28°59'57 | 10 m 51 | 7° 2 | 15° 6 | 28°17 | 8°39 | 13°57 | 22° 5 | 7°11 | 4°39 | 19° 3 | 20°31 | 26°57 | 24°57 | T 20 |
| W21 | 17 58 48 | 29°57'09 | 24°42 | 7°56 | 14°40 | 28°54 | 8°42 | 14° 0 | 22° 5 | 7°10 | 4°40 | 19°R 4 | 20°28 | 27° 4 | 24°57 | W21 |
| T 22 | 18 2 44 | 0954'21 | 8 ₾ 13 | 8°54 | 14°12 | 29°32 | 8°45 | 14° 4 | 22° 6 | 7° 9 | 4°42 | 19° 3 | 20°25 | 27°11 | 24°58 | T 22 |
| F 23 | 18 641 | 1°51'33 | 21°25 | 9°56 | 13°42 | OΩ 9 | 8°48 | 14° 7 | 22° 6 | 7° 8 | 4°43 | 19° 2 | 20°22 | 27°17 | 24°58 | F 23 |
| S 24 | 18 10 37 | 2°48'44 | 4 M 20 | 11° 3 | 13°11 | 0°47 | 8°51 | 14°11 | 22° 6 | 7° 7 | 4°45 | 18°58 | 20°19 | 27°24 | 24°58 | S 24 |
| S 25 | 18 14 34 | 3°45'54 | 17° 0 | 12°13 | 12°38 | 1°25 | 8°55 | 14°14 | 22° 6 | 7° 5 | 4°46 | 18°52 | 20°15 | 27°31 | 24°58 | S 25 |
| M26 | 18 18 30 | 4°43'05 | 29°28 | 13°27 | 12° 3 | 2° 2 | 8°59 | 14°17 | 22°R 6 | 7° 4 | 4°48 | 18°45 | 20°12 | 27°37 | 24°59 | M26 |
| T 27 | 18 22 27 | 5°40'15 | 11 × 745 | 14°45 | 11°28 | 2°40 | 9° 3 | 14°20 | 22° 6 | 7° 3 | 4°49 | 18°38 | 20° 9 | 27°44 | 24°R59 | T 27 |
| W28 | 18 26 24 | 6°37'25 | 23°53 | 16° 7 | 10°52 | 3°17 | 9° 7 | 14°23 | 22° 6 | 7° 1 | 4°51 | 18°30 | 20° 6 | 27°51 | 24°59 | W28 |
| T 29 | 18 30 20 | 7°34'35 | 5 중 53 | 17°33 | 10°15 | 3°55 | 9°11 | 14°26 | 22° 6 | 7° 0 | 4°52 | 18°23 | 20° 3 | 27°57 | 24°59 | T 29 |
| F 30 | 18 34 17 | 8 9 31'45 | 17 る 47 | 19耳 2 | 9937 | 4 Ω 33 | 9 ≏ 15 | 14 Y 28 | 22 米 6 | 6≈59 | 4954 | 18 ≈ 18 | 20≈ 0 | 28중 4 | 24 米 58 | F 30 |

Delta T = 27.59 sec Greg

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| Day | Sid.t | 0 | D | φ | Ş | ð | 4 | ħ |)f(| ħ | Р | ₽. | Ω | Ç | ę, | Day |
|------|----------|-----------------|----------------|----------------|-------|---------------|----------------|----------------|----------------|-------|------|----------------|----------------|----------------|----------------|------|
| S 1 | 18 38 13 | 9928'55 | 29 궁 37 | 20耳35 | 9°R 0 | 5 Ω 10 | 9 ჲ 20 | 14 Y 31 | 22°R 6 | 6°R57 | 4955 | 18°R14 | 19≈56 | 28 궁 11 | 24°R58 | S 1 |
| S 2 | 18 42 10 | 10°26'05 | 11 ≈ 24 | 22°11 | 89522 | 5°48 | 9°24 | 14°34 | 22 米 5 | 6≈56 | 4°57 | 18 ≈ 13 | 19°53 | 28°17 | 24) 58 | S 2 |
| M 3 | 18 46 6 | 11°23'15 | 23°12 | 23°51 | 7°45 | 6°25 | 9°29 | 14°36 | 22° 5 | 6°54 | 4°58 | 18°D12 | 19°50 | 28°24 | 24°58 | M 3 |
| T 4 | 18 50 3 | 12°20'26 | 5) 5 | 25°34 | 7° 8 | 7° 3 | 9°34 | 14°38 | 22° 5 | 6°53 | 5° 0 | 18°13 | 19°47 | 28°31 | 24°57 | T 4 |
| W 5 | 18 53 59 | 13°17'37 | 17° 6 | 27°21 | 6°32 | 7°41 | 9°39 | 14°41 | 22° 4 | 6°52 | 5° 1 | 18°15 | 19°44 | 28°37 | 24°57 | W 5 |
| T 6 | 18 57 56 | 14°14'48 | 29°20 | 29°10 | 5°57 | 8°18 | 9°44 | 14°43 | 22° 4 | 6°50 | 5° 3 | 18°17 | 19°40 | 28°44 | 24°57 | T 6 |
| F 7 | 19 1 53 | 15°12'00 | 11 Y 50 | 199 3 | 5°24 | 8°56 | 9°50 | 14°45 | 22° 3 | 6°49 | 5° 4 | 18°R17 | 19°37 | 28°51 | 24°56 | F 7 |
| S 8 | 19 5 49 | 16° 9'12 | 24°43 | 2°58 | 4°52 | 9°34 | 9°55 | 14°47 | 22° 3 | 6°47 | 5° 6 | 18°17 | 19°34 | 28°57 | 24°56 | S 8 |
| S 9 | 19 9 46 | 17° 6'25 | 8 8 1 | 4°56 | 4°21 | 10°11 | 10° 1 | 14°49 | 22° 2 | 6°46 | 5° 7 | 18°16 | 19°31 | 29° 4 | 24°55 | S 9 |
| M10 | 19 13 42 | 18° 3'39 | 21°46 | 6°56 | 3°52 | 10°49 | 10° 7 | 14°51 | 22° 2 | 6°44 | 5° 9 | 18°13 | 19°28 | 29°11 | 24°54 | M10 |
| T 11 | 19 17 39 | 19° 0'53 | 6 I I 0 | 8°59 | 3°25 | 11°27 | 10°13 | 14°52 | 22° 1 | 6°43 | 5°10 | 18° 9 | 19°25 | 29°17 | 24°54 | T 11 |
| W12 | 19 21 35 | 19°58'09 | 20°38 | 11° 3 | 3° 0 | 12° 4 | 10°19 | 14°54 | 22° 0 | 6°41 | 5°12 | 18° 5 | 19°21 | 29°24 | 24°53 | W12 |
| T 13 | 19 25 32 | 20°55'24 | 5936 | 13° 8 | 2°37 | 12°42 | 10°25 | 14°55 | 22° 0 | 6°40 | 5°13 | 18° 2 | 19°18 | 29°31 | 24°52 | T 13 |
| F 14 | 19 29 29 | 21°52'41 | 20°46 | 15°14 | 2°16 | 13°20 | 10°32 | 14°57 | 21°59 | 6°38 | 5°15 | 17°59 | 19°15 | 29°37 | 24°51 | F 14 |
| S 15 | 19 33 25 | 22°49'57 | 5 Ω 58 | 17°21 | 1°58 | 13°57 | 10°38 | 14°58 | 21°58 | 6°36 | 5°16 | 17°57 | 19°12 | 29°44 | 24°50 | S 15 |
| S 16 | 19 37 22 | 23°47'14 | 21° 1 | 19°29 | 1°42 | 14°35 | 10°45 | 14°59 | 21°57 | 6°35 | 5°17 | 17°D57 | 19° 9 | 29°51 | 24°49 | S 16 |
| M17 | 19 41 18 | 24°44'32 | 5 m 49 | 21°37 | 1°28 | 15°13 | 10°52 | 15° 0 | 21°56 | 6°33 | 5°19 | 17°58 | 19° 6 | 29°57 | 24°48 | M17 |
| T 18 | 19 45 15 | 25°41'49 | 20°16 | 23°45 | 1°16 | 15°51 | 10°59 | 15° 1 | 21°55 | 6°32 | 5°20 | 17°59 | 19° 2 | 0≈ 4 | 24°47 | T 18 |
| W19 | 19 49 11 | 26°39'08 | 4 ≏ 17 | 25°52 | 1° 7 | 16°28 | 11° 6 | 15° 2 | 21°54 | 6°30 | 5°22 | 18° 0 | 18°59 | 0°10 | 24°46 | W19 |
| T 20 | 19 53 8 | 27°36'26 | 17°54 | 27°59 | 1° 0 | 17° 6 | 11°13 | 15° 3 | 21°53 | 6°28 | 5°23 | 18° 1 | 18°56 | 0°17 | 24°45 | T 20 |
| F 21 | 19 57 4 | 28°33'45 | 1 m 7 | 0Ω 5 | 0°56 | 17°44 | 11°20 | 15° 3 | 21°52 | 6°27 | 5°24 | 18°R 1 | 18°53 | 0°24 | 24°44 | F 21 |
| S 22 | 20 1 1 | 29°31'04 | 13°58 | 2°10 | 0°D54 | 18°22 | 11°28 | 15° 4 | 21°51 | 6°25 | 5°26 | 18° 1 | 18°50 | 0°30 | 24°42 | S 22 |
| S 23 | 20 4 58 | $0\Omega 28'24$ | 26°32 | 4°14 | 0°54 | 19° 0 | 11°35 | 15° 4 | 21°49 | 6°24 | 5°27 | 17°59 | 18°46 | 0°37 | 24°41 | S 23 |
| M24 | 20 8 54 | 1°25'44 | 8 才 50 | 6°16 | 0°57 | 19°37 | 11°43 | 15° 5 | 21°48 | 6°22 | 5°29 | 17°57 | 18°43 | 0°44 | 24°40 | M24 |
| T 25 | 20 12 51 | 2°23'06 | 20°57 | 8°18 | 1° 2 | 20°15 | 11°51 | 15° 5 | 21°47 | 6°20 | 5°30 | 17°55 | 18°40 | 0°50 | 24°38 | T 25 |
| W26 | 20 16 47 | 3°20'27 | 2 る 56 | 10°18 | 1° 9 | 20°53 | 11°59 | 15° 5 | 21°46 | 6°19 | 5°31 | 17°53 | 18°37 | 0°57 | 24°37 | W26 |
| T 27 | 20 20 44 | 4°17'50 | 14°48 | 12°16 | 1°18 | 21°31 | 12° 7 | 15°R 5 | 21°44 | 6°17 | 5°33 | 17°51 | 18°34 | 1° 4 | 24°35 | T 27 |
| F 28 | 20 24 40 | 5°15'13 | 26°37 | 14°13 | 1°29 | 22° 9 | 12°15 | 15° 5 | 21°43 | 6°15 | 5°34 | 17°49 | 18°31 | 1°10 | 24°34 | F 28 |
| S 29 | 20 28 37 | 6°12'37 | 8 ≈ 26 | 16° 8 | 1°43 | 22°47 | 12°24 | 15° 5 | 21°41 | 6°14 | 5°35 | 17°49 | 18°27 | 1°17 | 24°32 | S 29 |
| S 30 | 20 32 33 | 7°10'02 | 20°15 | 18° 2 | 1°58 | 23°24 | 12°32 | 15° 5 | 21°40 | 6°12 | 5°37 | 17°D48 | 18°24 | 1°24 | 24°31 | S 30 |
| M31 | 20 36 30 | 8 0 7'28 | 2 ∺ 8 | 19 N 55 | 29915 | 24 Ω 2 | 12 ≏ 41 | 15 ℃ 4 | 21) 38 | 6≈11 | 5938 | 17 ≈ 49 | 18 ≈ 21 | 1≈30 | 24 米 29 | M31 |

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AUGUST 1673 GC 00:00 UT

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|------|----------|------------------|-----------------|----------------|-------|----------------|----------------|---------------|----------------|-------|--------|----------------|----------------|------|----------------|------|
| T 1 | 20 40 27 | 9⋒ 4'55 | 14) 6 | 21 Ω 45 | 2934 | 24Ω40 | 12 ≙ 49 | 15°R 4 | 21°R37 | 6°R 9 | 5939 | 17 ≈ 49 | 18 ≈ 18 | 1≈37 | 24°R27 | T 1 |
| W 2 | 20 44 23 | 10° 2'23 | 26°14 | 23°34 | 2°55 | 25°18 | 12°58 | 15 ° 3 | 21) 35 | 6≈ 7 | 5°41 | 17°50 | 18°15 | 1°44 | 24) 25 | W 2 |
| T 3 | 20 48 20 | 10°59'53 | 8 Y 33 | 25°22 | 3°18 | 25°56 | 13° 7 | 15° 2 | 21°34 | 6° 6 | 5°42 | 17°51 | 18°11 | 1°50 | 24°24 | T 3 |
| F 4 | 20 52 16 | 11°57'24 | 21° 8 | 27° 8 | 3°43 | 26°34 | 13°16 | 15° 2 | 21°32 | 6° 4 | 5°43 | 17°52 | 18° 8 | 1°57 | 24°22 | F 4 |
| S 5 | 20 56 13 | 12°54'56 | 4 8 0 | 28°52 | 4° 9 | 27°12 | 13°25 | 15° 1 | 21°30 | 6° 2 | 5°44 | 17°52 | 18° 5 | 2° 4 | 24°20 | S 5 |
| S 6 | 21 0 9 | 13°52'30 | 17°14 | 0 m 35 | 4°36 | 27°50 | 13°34 | 15° 0 | 21°29 | 6° 1 | 5°46 | 17°R52 | 18° 2 | 2°10 | 24°18 | S 6 |
| M 7 | 21 4 6 | 14°50'05 | 0Д52 | 2°17 | 5° 6 | 28°28 | 13°43 | 14°59 | 21°27 | 5°59 | 5°47 | 17°52 | 17°59 | 2°17 | 24°16 | M 7 |
| T 8 | 21 8 2 | 15°47'42 | 14°55 | 3°57 | 5°36 | 29° 6 | 13°53 | 14°58 | 21°25 | 5°58 | 5°48 | 17°52 | 17°56 | 2°24 | 24°14 | T 8 |
| W 9 | 21 11 59 | 16°45'20 | 29°21 | 5°35 | 6° 8 | 29°44 | 14° 2 | 14°56 | 21°23 | 5°56 | 5°49 | 17°51 | 17°52 | 2°30 | 24°12 | W 9 |
| T 10 | 21 15 56 | 17°43'00 | 1495 7 | 7°12 | 6°42 | 0 m 22 | 14°12 | 14°55 | 21°21 | 5°54 | 5°50 | 17°D51 | 17°49 | 2°37 | 24°10 | T 10 |
| F 11 | 21 19 52 | 18°40'42 | 29° 9 | 8°48 | 7°16 | 1° 0 | 14°21 | 14°53 | 21°19 | 5°53 | 5°52 | 17°51 | 17°46 | 2°43 | 24° 8 | F 11 |
| S 12 | 21 23 49 | 19°38'24 | 14 \O 16 | 10°21 | 7°52 | 1°38 | 14°31 | 14°52 | 21°18 | 5°51 | 5°53 | 17°R51 | 17°43 | 2°50 | 24° 5 | S 12 |
| S 13 | 21 27 45 | 20°36'08 | 29°22 | 11°54 | 8°30 | 2°16 | 14°41 | 14°50 | 21°16 | 5°50 | 5°54 | 17°51 | 17°40 | 2°57 | 24° 3 | S 13 |
| M14 | 21 31 42 | 21°33'54 | 14 M p16 | 13°25 | 9° 8 | 2°54 | 14°51 | 14°48 | 21°14 | 5°48 | 5°55 | 17°51 | 17°37 | 3° 3 | 24° 1 | M14 |
| T 15 | 21 35 38 | 22°31'40 | 28°52 | 14°54 | 9°48 | 3°33 | 15° 1 | 14°46 | 21°12 | 5°47 | 5°56 | 17°51 | 17°33 | 3°10 | 23°59 | T 15 |
| W16 | 21 39 35 | 23°29'28 | 13 ₾ 3 | 16°22 | 10°28 | 4°11 | 15°11 | 14°44 | 21°10 | 5°45 | 5°57 | 17°50 | 17°30 | 3°17 | 23°56 | W16 |
| T 17 | 21 43 31 | 24°27'17 | 26°49 | 17°49 | 11°10 | 4°49 | 15°22 | 14°42 | 21° 8 | 5°44 | 5°58 | 17°50 | 17°27 | 3°23 | 23°54 | T 17 |
| F 18 | 21 47 28 | 25°25'07 | 10 M 7 | 19°14 | 11°52 | 5°27 | 15°32 | 14°40 | 21° 5 | 5°42 | 5°59 | 17°49 | 17°24 | 3°30 | 23°52 | F 18 |
| S 19 | 21 51 25 | 26°22'59 | 23° 1 | 20°37 | 12°36 | 6° 5 | 15°42 | 14°38 | 21° 3 | 5°41 | 6° 0 | 17°D49 | 17°21 | 3°37 | 23°49 | S 19 |
| S 20 | 21 55 21 | 27°20'51 | 5 ₹ 34 | 21°59 | 13°20 | 6°43 | 15°53 | 14°36 | 21° 1 | 5°39 | 6° 1 | 17°49 | 17°17 | 3°43 | 23°47 | S 20 |
| M21 | 21 59 18 | 28°18'45 | 17°49 | 23°19 | 14° 6 | 7°22 | 16° 3 | 14°33 | 20°59 | 5°38 | 6° 2 | 17°49 | 17°14 | 3°50 | 23°44 | M21 |
| T 22 | 22 3 14 | 29°16'41 | 29°51 | 24°37 | 14°52 | 8° 0 | 16°14 | 14°31 | 20°57 | 5°36 | 6° 3 | 17°50 | 17°11 | 3°57 | 23°42 | T 22 |
| W23 | 22 7 11 | 0 M 14'37 | 11 る 45 | 25°54 | 15°39 | 8°38 | 16°25 | 14°28 | 20°55 | 5°35 | 6° 4 | 17°51 | 17° 8 | 4° 3 | 23°39 | W23 |
| T 24 | 22 11 7 | 1°12'35 | 23°34 | 27° 9 | 16°27 | 9°16 | 16°36 | 14°25 | 20°53 | 5°33 | 6° 5 | 17°53 | 17° 5 | 4°10 | 23°37 | T 24 |
| F 25 | 22 15 4 | 2°10'35 | 5≈22 | 28°22 | 17°16 | 9°55 | 16°46 | 14°22 | 20°50 | 5°32 | 6° 6 | 17°53 | 17° 2 | 4°17 | 23°34 | F 25 |
| S 26 | 22 19 0 | 3° 8'36 | 17°11 | 29°33 | 18° 5 | 10°33 | 16°57 | 14°20 | 20°48 | 5°30 | 6° 7 | 17°R54 | 16°58 | 4°23 | 23°32 | S 26 |
| S 27 | 22 22 57 | 4° 6'38 | 29° 6 | 0 ჲ 42 | 18°55 | 11°11 | 17° 8 | 14°17 | 20°46 | 5°29 | 6° 8 | 17°54 | 16°55 | 4°30 | 23°29 | S 27 |
| M28 | 22 26 54 | 5° 4'42 | 11) 7 | 1°50 | 19°46 | 11°50 | 17°20 | 14°14 | 20°44 | 5°28 | 6° 9 | 17°52 | 16°52 | 4°37 | 23°27 | M28 |
| T 29 | 22 30 50 | 6° 2'48 | 23°18 | 2°54 | 20°38 | 12°28 | 17°31 | 14°10 | 20°41 | 5°26 | 6°10 | 17°50 | 16°49 | 4°43 | 23°24 | T 29 |
| W30 | 22 34 47 | 7° 0'56 | 5 Ƴ 38 | 3°57 | 21°30 | 13° 7 | 17°42 | 14° 7 | 20°39 | 5°25 | 6°10 | 17°48 | 16°46 | 4°50 | 23°21 | W30 |
| T 31 | 22 38 43 | 7 m 59'05 | 18 Y 10 | 4 ≏ 57 | 22523 | 13 m 45 | 17 ≏ 53 | 14 ° 4 | 20 米 37 | 5≈24 | 69्ड11 | 17 ≈ 45 | 16≈43 | 4≈56 | 23 米 19 | T 31 |
| | | | | | | | | | | | | | | | | |

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SEPTEMBER 1673 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)∤(| 井 | Р | ß | v | ţ | , k | Day |
|------|----------|------------------|-----------------|---------------|-----------------|----------------|----------------|----------------|----------------|-------|-------|----------------|-------|------|----------------|------|
| F 1 | 22 42 40 | 8 m 57'17 | 0 8 56 | 5 Ω 55 | 239917 | 14 m 23 | 18 ♀ 5 | 14°R 1 | 20°R34 | 5°R22 | 69612 | 17°R42 | 16≈39 | 5≈ 3 | 23°R16 | F 1 |
| S 2 | 22 46 36 | 9°55'30 | 13°56 | 6°49 | 24°11 | 15° 2 | 18°16 | 13 Y 57 | 20 ∺ 32 | 5≈21 | 6°13 | 17 ≈ 39 | 16°36 | 5°10 | 23 米 13 | S 2 |
| S 3 | 22 50 33 | 10°53'46 | 27°13 | 7°41 | 25° 6 | 15°40 | 18°28 | 13°54 | 20°30 | 5°20 | 6°14 | 17°37 | 16°33 | 5°16 | 23°10 | S 3 |
| M 4 | 22 54 29 | 11°52'04 | 10 Ⅱ 47 | 8°30 | 26° 1 | 16°19 | 18°39 | 13°50 | 20°27 | 5°19 | 6°14 | 17°D37 | 16°30 | 5°23 | 23° 8 | M 4 |
| T 5 | 22 58 26 | 12°50'23 | 24°40 | 9°15 | 26°57 | 16°57 | 18°51 | 13°46 | 20°25 | 5°17 | 6°15 | 17°37 | 16°27 | 5°30 | 23° 5 | T 5 |
| W 6 | 23 2 23 | 13°48'45 | 8951 | 9°57 | 27°53 | 17°36 | 19° 3 | 13°43 | 20°22 | 5°16 | 6°16 | 17°38 | 16°23 | 5°36 | 23° 2 | W 6 |
| T 7 | 23 6 19 | 14°47'10 | 23°18 | 10°35 | 28°50 | 18°14 | 19°14 | 13°39 | 20°20 | 5°15 | 6°16 | 17°40 | 16°20 | 5°43 | 22°59 | T 7 |
| F 8 | 23 10 16 | 15°45'36 | 8 N 0 | 11° 8 | 29°47 | 18°53 | 19°26 | 13°35 | 20°18 | 5°14 | 6°17 | 17°41 | 16°17 | 5°50 | 22°57 | F 8 |
| S 9 | 23 14 12 | 16°44'04 | 22°50 | 11°38 | 0 Ω 45 | 19°32 | 19°38 | 13°31 | 20°15 | 5°13 | 6°18 | 17°R41 | 16°14 | 5°56 | 22°54 | S 9 |
| S 10 | 23 18 9 | 17°42'34 | 7 m) 42 | 12° 2 | 1°43 | 20°10 | 19°50 | 13°27 | 20°13 | 5°12 | 6°18 | 17°40 | 16°11 | 6° 3 | 22°51 | S 10 |
| M11 | 23 22 5 | 18°41'07 | 22°28 | 12°21 | 2°42 | 20°49 | 20° 2 | 13°23 | 20°10 | 5°11 | 6°19 | 17°37 | 16° 8 | 6°10 | 22°48 | M11 |
| T 12 | 23 26 2 | 19°39'41 | 7 ♀ 1 | 12°35 | 3°41 | 21°28 | 20°14 | 13°19 | 20° 8 | 5° 9 | 6°20 | 17°33 | 16° 4 | 6°16 | 22°45 | T 12 |
| W13 | 23 29 58 | 20°38'17 | 21°14 | 12°43 | 4°41 | 22° 6 | 20°26 | 13°15 | 20° 6 | 5° 8 | 6°20 | 17°28 | 16° 1 | 6°23 | 22°43 | W13 |
| T 14 | 23 33 55 | 21°36'54 | 5 M 3 | 12°R45 | 5°41 | 22°45 | 20°38 | 13°11 | 20° 3 | 5° 7 | 6°21 | 17°23 | 15°58 | 6°30 | 22°40 | T 14 |
| F 15 | 23 37 51 | 22°35'34 | 18°27 | 12°41 | 6°41 | 23°24 | 20°51 | 13° 6 | 20° 1 | 5° 6 | 6°21 | 17°18 | 15°55 | 6°36 | 22°37 | F 15 |
| S 16 | 23 41 48 | 23°34'15 | 1 ₹ 25 | 12°29 | 7°42 | 24° 3 | 21° 3 | 13° 2 | 19°58 | 5° 5 | 6°22 | 17°14 | 15°52 | 6°43 | 22°34 | S 16 |
| S 17 | 23 45 45 | 24°32'58 | 13°59 | 12°11 | 8°43 | 24°41 | 21°15 | 12°58 | 19°56 | 5° 5 | 6°22 | 17°12 | 15°49 | 6°49 | 22°31 | S 17 |
| M18 | 23 49 41 | 25°31'43 | 26°15 | 11°45 | 9°44 | 25°20 | 21°27 | 12°53 | 19°54 | 5° 4 | 6°23 | 17°D12 | 15°45 | 6°56 | 22°29 | M18 |
| T 19 | 23 53 38 | 26°30'30 | 8 궁 17 | 11°12 | 10°46 | 25°59 | 21°40 | 12°49 | 19°51 | 5° 3 | 6°23 | 17°12 | 15°42 | 7° 3 | 22°26 | T 19 |
| W20 | 23 57 34 | 27°29'18 | 20° 9 | 10°32 | 11°48 | 26°38 | 21°52 | 12°44 | 19°49 | 5° 2 | 6°23 | 17°14 | 15°39 | 7° 9 | 22°23 | W20 |
| T 21 | 0 1 31 | 28°28'08 | 1≈57 | 9°45 | 12°51 | 27°17 | 22° 5 | 12°40 | 19°46 | 5° 1 | 6°24 | 17°15 | 15°36 | 7°16 | 22°20 | T 21 |
| F 22 | 0 5 27 | 29°27'00 | 13°46 | 8°51 | 13°54 | 27°56 | 22°17 | 12°35 | 19°44 | 5° 0 | 6°24 | 17°R16 | 15°33 | 7°23 | 22°17 | F 22 |
| S 23 | 0 9 24 | 0 ≏ 25'53 | 25°39 | 7°52 | 14°57 | 28°35 | 22°30 | 12°31 | 19°42 | 5° 0 | 6°24 | 17°16 | 15°29 | 7°29 | 22°15 | S 23 |
| S 24 | 0 13 20 | 1°24'49 | 7)(40 | 6°49 | 16° 0 | 29°14 | 22°42 | 12°26 | 19°39 | 4°59 | 6°25 | 17°14 | 15°26 | 7°36 | 22°12 | S 24 |
| M25 | 0 17 17 | 2°23'46 | 19°53 | 5°42 | 17° 4 | 29°53 | 22°55 | 12°22 | 19°37 | 4°58 | 6°25 | 17°10 | 15°23 | 7°43 | 22° 9 | M25 |
| T 26 | 0 21 14 | 3°22'45 | 2 Υ 18 | 4°34 | 18° 8 | 0 ჲ 32 | 23° 8 | 12°17 | 19°35 | 4°57 | 6°25 | 17° 3 | 15°20 | 7°49 | 22° 6 | T 26 |
| W27 | 0 25 10 | 4°21'47 | 14°56 | 3°26 | 19°13 | 1°11 | 23°20 | 12°12 | 19°32 | 4°57 | 6°25 | 16°56 | 15°17 | 7°56 | 22° 4 | W27 |
| T 28 | 0 29 7 | 5°20'50 | 27°48 | 2°19 | 20°17 | 1°50 | 23°33 | 12° 8 | 19°30 | 4°56 | 6°26 | 16°47 | 15°14 | 8° 3 | 22° 1 | T 28 |
| F 29 | 0 33 3 | 6°19'56 | 10854 | 1°16 | 21°22 | 2°29 | 23°46 | 12° 3 | 19°28 | 4°56 | 6°26 | 16°38 | 15°10 | 8° 9 | 21°58 | F 29 |
| S 30 | 0 37 0 | 7 ≙ 19'04 | 24 8 11 | 0 ჲ 19 | 22 \O 27 | 3 ₾ 8 | 23 ≏ 58 | 11 Y 58 | 19 米 26 | 4≈55 | 69326 | 16≈31 | 15≈ 7 | 8≈16 | 21 米 55 | S 30 |

Delta T = 27.43 sec

Greg. Calendar

| OCTOBER 1673 GC | 00:00 UT |
|-----------------|----------|

| Day | Sid.t | 0 | D | ğ | · | ♂ [™] | 4 | ħ | Å | ¥ | Р | £ | ಬ | Ç | ę, | Day |
|------|---------|------------------|----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|-------|-------|----------------|-------|-------|-----------------|------|
| S 1 | 0 40 56 | 8 ≏ 18'14 | 7 Ⅱ 41 | 29°R29 | 23€33 | 3 ≙ 47 | 24 ₾ 11 | 11°R53 | 19°R23 | 4°R55 | 6926 | 16°R25 | 15≈ 4 | 8≈22 | 21°R53 | S 1 |
| M 2 | 0 44 53 | 9°17'27 | 21°21 | 28 M)47 | 24°38 | 4°26 | 24°24 | 11 Υ 49 | 19 米 21 | 4≈54 | 6°26 | 16≈21 | 15° 1 | 8°29 | 21 米 50 | M 2 |
| T 3 | 0 48 49 | 10°16'42 | 59912 | 28°14 | 25°44 | 5° 6 | 24°37 | 11°44 | 19°19 | 4°54 | 6°26 | 16°D20 | 14°58 | 8°36 | 21°47 | T 3 |
| W 4 | 0 52 46 | 11°15'59 | 19°14 | 27°52 | 26°51 | 5°45 | 24°50 | 11°39 | 19°17 | 4°53 | 6°26 | 16°20 | 14°54 | 8°42 | 21°45 | W 4 |
| T 5 | 0 56 43 | 12°15'19 | 3 Ω 25 | 27°41 | 27°57 | 6°24 | 25° 3 | 11°34 | 19°15 | 4°53 | 6°26 | 16°21 | 14°51 | 8°49 | 21°42 | T 5 |
| F 6 | 1 0 39 | 13°14'41 | 17°44 | 27°D40 | 29° 4 | 7° 3 | 25°16 | 11°30 | 19°12 | 4°52 | 6°R26 | 16°R21 | 14°48 | 8°56 | 21°40 | F 6 |
| S 7 | 1 4 36 | 14°14'05 | 2 Mp 10 | 27°50 | 0 m y 11 | 7°43 | 25°29 | 11°25 | 19°10 | 4°52 | 6°26 | 16°20 | 14°45 | 9° 2 | 21°37 | S 7 |
| S 8 | 1 8 32 | 15°13'32 | 16°38 | 28°11 | 1°18 | 8°22 | 25°42 | 11°20 | 19° 8 | 4°52 | 6°26 | 16°17 | 14°42 | 9° 9 | 21°35 | S 8 |
| M 9 | 1 12 29 | 16°13'01 | 1 ₾ 3 | 28°41 | 2°25 | 9° 1 | 25°55 | 11°15 | 19° 6 | 4°52 | 6°26 | 16°11 | 14°39 | 9°16 | 21°32 | M 9 |
| T 10 | 1 16 25 | 17°12'31 | 15°19 | 29°21 | 3°33 | 9°41 | 26° 8 | 11°11 | 19° 4 | 4°51 | 6°26 | 16° 2 | 14°35 | 9°22 | 21°30 | T 10 |
| W11 | 1 20 22 | 18°12'04 | 29°21 | 0 ჲ 10 | 4°40 | 10°20 | 26°21 | 11° 6 | 19° 2 | 4°51 | 6°26 | 15°52 | 14°32 | 9°29 | 21°27 | W11 |
| T 12 | 1 24 18 | 19°11'39 | 13M 4 | 1° 6 | 5°48 | 11° 0 | 26°34 | 11° 1 | 19° 0 | 4°51 | 6°26 | 15°41 | 14°29 | 9°36 | 21°25 | T 12 |
| F 13 | 1 28 15 | 20°11'16 | 26°24 | 2° 9 | 6°56 | 11°39 | 26°47 | 10°57 | 18°58 | 4°51 | 6°26 | 15°31 | 14°26 | 9°42 | 21°22 | F 13 |
| S 14 | 1 32 12 | 21°10'55 | 9 ₹ 22 | 3°18 | 8° 5 | 12°19 | 27° 0 | 10°52 | 18°56 | 4°51 | 6°26 | 15°22 | 14°23 | 9°49 | 21°20 | S 14 |
| S 15 | 1 36 8 | 22°10'36 | 21°58 | 4°32 | 9°13 | 12°58 | 27°13 | 10°47 | 18°54 | 4°51 | 6°26 | 15°16 | 14°20 | 9°56 | 21°18 | S 15 |
| M16 | 1 40 5 | 23°10'18 | 4 궁 14 | 5°51 | 10°22 | 13°38 | 27°26 | 10°43 | 18°52 | 4°D51 | 6°25 | 15°12 | 14°16 | 10° 2 | 21°15 | M16 |
| T 17 | 1 44 1 | 24°10'03 | 16°16 | 7°14 | 11°31 | 14°17 | 27°39 | 10°38 | 18°51 | 4°51 | 6°25 | 15°10 | 14°13 | 10° 9 | 21°13 | T 17 |
| W18 | 1 47 58 | 25° 9'49 | 28° 8 | 8°41 | 12°40 | 14°57 | 27°52 | 10°34 | 18°49 | 4°51 | 6°25 | 15°D10 | 14°10 | 10°15 | 21°11 | W18 |
| T 19 | 1 51 54 | 26° 9'36 | 9 ≈ 56 | 10°10 | 13°49 | 15°37 | 28° 5 | 10°29 | 18°47 | 4°51 | 6°25 | 15°R10 | 14° 7 | 10°22 | 21° 9 | T 19 |
| F 20 | 1 55 51 | 27° 9'25 | 21°46 | 11°42 | 14°58 | 16°16 | 28°18 | 10°25 | 18°45 | 4°51 | 6°24 | 15°10 | 14° 4 | 10°29 | 21° 7 | F 20 |
| S 21 | 1 59 47 | 28° 9'16 | 3 ∺ 41 | 13°15 | 16° 8 | 16°56 | 28°32 | 10°20 | 18°44 | 4°51 | 6°24 | 15° 8 | 14° 0 | 10°35 | 21° 5 | S 21 |
| S 22 | 2 3 44 | 29° 9'09 | 15°48 | 14°50 | 17°18 | 17°36 | 28°45 | 10°16 | 18°42 | 4°51 | 6°24 | 15° 4 | 13°57 | 10°42 | 21° 2 | S 22 |
| M23 | 2 7 41 | OM 9'04 | 28°10 | 16°26 | 18°27 | 18°16 | 28°58 | 10°12 | 18°40 | 4°51 | 6°23 | 14°58 | 13°54 | 10°49 | 21° 0 | M23 |
| T 24 | 2 11 37 | 1° 9'00 | 10 Υ 48 | 18° 3 | 19°37 | 18°55 | 29°11 | 10° 7 | 18°39 | 4°52 | 6°23 | 14°49 | 13°51 | 10°55 | 20°58 | T 24 |
| W25 | 2 15 34 | 2° 8'58 | 23°45 | 19°41 | 20°47 | 19°35 | 29°24 | 10° 3 | 18°37 | 4°52 | 6°22 | 14°37 | 13°48 | 11° 2 | 20°57 | W25 |
| T 26 | 2 19 30 | 3° 8'58 | 6 8 59 | 21°19 | 21°58 | 20°15 | 29°37 | 9°59 | 18°36 | 4°52 | 6°22 | 14°24 | 13°45 | 11° 9 | 20°55 | T 26 |
| F 27 | 2 23 27 | 4° 9'00 | 20°30 | 22°58 | 23° 8 | 20°55 | 29°50 | 9°55 | 18°34 | 4°53 | 6°21 | 14°12 | 13°41 | 11°15 | 20°53 | F 27 |
| S 28 | 2 27 23 | 5° 9'04 | 4 Ⅱ 12 | 24°37 | 24°19 | 21°35 | OM 3 | 9°51 | 18°33 | 4°53 | 6°21 | 14° 0 | 13°38 | 11°22 | 20°51 | S 28 |
| S 29 | 2 31 20 | 6° 9'10 | 18° 5 | 26°16 | 25°29 | 22°15 | 0°16 | 9°47 | 18°31 | 4°53 | 6°20 | 13°51 | 13°35 | 11°29 | 20°49 | S 29 |
| M30 | 2 35 16 | 7° 9'18 | 295 3 | 27°54 | 26°40 | 22°55 | 0°30 | 9°43 | 18°30 | 4°54 | 6°20 | 13°45 | 13°32 | 11°35 | 20°47 | M30 |
| T 31 | 2 39 13 | 8M 9'28 | 1695 6 | 29 ₾ 33 | 27 m 51 | 23 ₾ 35 | 0 M .43 | 9 Υ 39 | 18 ∺ 29 | 4≈54 | 69519 | 13 ≈ 41 | 13≈29 | 11≈42 | 20) (46 | T 31 |

Delta T = 27.38 sec

NOVEMBER 1673 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q | ď | 4 | ħ |)∤(| 并 | Р | n | Ω | ţ | Ŷ, | Day |
|------|---------|-------------------|----------------|-----------------|---------------|----------------|----------------|---------------|-----------------|------|---------------|--------|-------|-------|-----------------|------|
| W 1 | 2 43 10 | 9M 9'40 | 0Ω10 | 1 M .12 | 29 m 2 | 24 ♀ 15 | 0 M .56 | 9°R35 | 18°R27 | 4≈55 | 6°R19 | 13°R40 | 13≈26 | 11≈48 | 20°R44 | W 1 |
| T 2 | 2 47 6 | 10° 9'55 | 14°15 | 2°50 | 0 ჲ 13 | 24°55 | 1° 9 | 9 Y 31 | 18) (26 | 4°55 | 6 ୭ 18 | 13≈40 | 13°22 | 11°55 | 20) (43 | T 2 |
| F 3 | 2 51 3 | 11°10'11 | 28°20 | 4°29 | 1°25 | 25°35 | 1°22 | 9°28 | 18°25 | 4°56 | 6°18 | 13°39 | 13°19 | 12° 2 | 20°41 | F 3 |
| S 4 | 2 54 59 | 12°10'29 | 12 m 24 | 6° 7 | 2°36 | 26°15 | 1°35 | 9°24 | 18°24 | 4°57 | 6°17 | 13°37 | 13°16 | 12° 8 | 20°40 | S 4 |
| S 5 | 2 58 56 | 13°10'50 | 26°27 | 7°44 | 3°48 | 26°55 | 1°48 | 9°21 | 18°23 | 4°57 | 6°16 | 13°33 | 13°13 | 12°15 | 20°38 | S 5 |
| M 6 | 3 2 52 | 14°11'12 | 10 ≏ 25 | 9°22 | 4°59 | 27°36 | 2° 1 | 9°17 | 18°22 | 4°58 | 6°16 | 13°25 | 13°10 | 12°22 | 20°37 | M 6 |
| T 7 | 3 6 49 | 15°11'36 | 24°15 | 10°59 | 6°11 | 28°16 | 2°14 | 9°14 | 18°21 | 4°59 | 6°15 | 13°15 | 13° 6 | 12°28 | 20°35 | T 7 |
| W 8 | 3 10 45 | 16°12'02 | 7 M 55 | 12°36 | 7°23 | 28°56 | 2°27 | 9°10 | 18°20 | 4°59 | 6°14 | 13° 2 | 13° 3 | 12°35 | 20°34 | W 8 |
| T 9 | 3 14 42 | 17°12'30 | 21°20 | 14°12 | 8°35 | 29°37 | 2°40 | 9° 7 | 18°19 | 5° 0 | 6°14 | 12°49 | 13° 0 | 12°42 | 20°33 | T 9 |
| F 10 | 3 18 39 | 18°12'59 | 4 ₹ 28 | 15°49 | 9°47 | 0 M .17 | 2°53 | 9° 4 | 18°18 | 5° 1 | 6°13 | 12°36 | 12°57 | 12°48 | 20°32 | F 10 |
| S 11 | 3 22 35 | 19°13'30 | 17°18 | 17°25 | 10°59 | 0°57 | 3° 6 | 9° 1 | 18°17 | 5° 2 | 6°12 | 12°25 | 12°54 | 12°55 | 20°30 | S 11 |
| S 12 | 3 26 32 | 20°14'03 | 29°49 | 19° 1 | 12°12 | 1°38 | 3°18 | 8°58 | 18°16 | 5° 3 | 6°11 | 12°16 | 12°51 | 13° 2 | 20°29 | S 12 |
| M13 | 3 30 28 | 21°14'36 | 12る 3 | 20°36 | 13°24 | 2°18 | 3°31 | 8°55 | 18°16 | 5° 3 | 6°10 | 12°10 | 12°47 | 13° 8 | 20°28 | M13 |
| T 14 | 3 34 25 | 22°15'12 | 24° 4 | 22°11 | 14°36 | 2°59 | 3°44 | 8°52 | 18°15 | 5° 4 | 6°10 | 12° 6 | 12°44 | 13°15 | 20°27 | T 14 |
| W15 | 3 38 21 | 23°15'48 | 5≈56 | 23°46 | 15°49 | 3°39 | 3°57 | 8°50 | 18°14 | 5° 5 | 6° 9 | 12° 5 | 12°41 | 13°22 | 20°26 | W15 |
| T 16 | 3 42 18 | 24°16'25 | 17°43 | 25°21 | 17° 1 | 4°20 | 4°10 | 8°47 | 18°14 | 5° 6 | 6° 8 | 12°D 5 | 12°38 | 13°28 | 20°26 | T 16 |
| F 17 | 3 46 14 | 25°17'04 | 29°32 | 26°56 | 18°14 | 5° 0 | 4°22 | 8°44 | 18°13 | 5° 7 | 6° 7 | 12°R 5 | 12°35 | 13°35 | 20°25 | F 17 |
| S 18 | 3 50 11 | 26°17'44 | 11 ∺ 28 | 28°30 | 19°27 | 5°41 | 4°35 | 8°42 | 18°13 | 5° 9 | 6° 6 | 12° 4 | 12°32 | 13°41 | 20°24 | S 18 |
| S 19 | 3 54 8 | 27°18'25 | 23°36 | 0 , ₹ 4 | 20°40 | 6°21 | 4°48 | 8°40 | 18°12 | 5°10 | 6° 5 | 12° 1 | 12°28 | 13°48 | 20°23 | S 19 |
| M20 | 3 58 4 | 28°19'07 | 6 Υ 1 | 1°38 | 21°53 | 7° 2 | 5° 0 | 8°37 | 18°12 | 5°11 | 6° 4 | 11°55 | 12°25 | 13°55 | 20°23 | M20 |
| T 21 | 4 2 1 | 29°19'50 | 18°46 | 3°12 | 23° 6 | 7°43 | 5°13 | 8°35 | 18°12 | 5°12 | 6° 3 | 11°47 | 12°22 | 14° 1 | 20°22 | T 21 |
| W22 | 4 5 57 | 0 ₮ 20'34 | 1 8 54 | 4°46 | 24°19 | 8°23 | 5°25 | 8°33 | 18°11 | 5°13 | 6° 2 | 11°37 | 12°19 | 14° 8 | 20°22 | W22 |
| T 23 | 4 9 54 | 1°21'20 | 15°25 | 6°20 | 25°32 | 9° 4 | 5°38 | 8°31 | 18°11 | 5°14 | 6° 1 | 11°25 | 12°16 | 14°15 | 20°21 | T 23 |
| F 24 | 4 13 50 | 2°22'07 | 29°17 | 7°54 | 26°45 | 9°45 | 5°50 | 8°30 | 18°11 | 5°16 | 6° 0 | 11°13 | 12°12 | 14°21 | 20°21 | F 24 |
| S 25 | 4 17 47 | 3°22'55 | 13Ⅱ26 | 9°27 | 27°58 | 10°26 | 6° 3 | 8°28 | 18°11 | 5°17 | 5°59 | 11° 3 | 12° 9 | 14°28 | 20°20 | S 25 |
| S 26 | 4 21 43 | 4°23'44 | 27°46 | 11° 1 | 29°12 | 11° 7 | 6°15 | 8°26 | 18°11 | 5°18 | 5°58 | 10°54 | 12° 6 | 14°35 | 20°20 | S 26 |
| M27 | 4 25 40 | 5°24'35 | 129911 | 12°34 | 0M25 | 11°47 | 6°27 | 8°25 | 18°D11 | 5°19 | 5°57 | 10°48 | 12° 3 | 14°41 | 20°20 | M27 |
| T 28 | 4 29 37 | 6°25'27 | 26°37 | 14° 7 | 1°38 | 12°28 | 6°40 | 8°23 | 18°11 | 5°21 | 5°56 | 10°45 | 12° 0 | 14°48 | 20°20 | T 28 |
| W29 | 4 33 33 | 7°26'20 | $10\Omega57$ | 15°41 | 2°52 | 13° 9 | 6°52 | 8°22 | 18°11 | 5°22 | 5°55 | 10°D44 | 11°57 | 14°55 | 20°19 | W29 |
| T 30 | 4 37 30 | 8 .7 27'14 | 25 Ω 11 | 17 ,7 14 | 4M 6 | 13 M 50 | 7 M 4 | 8 Υ 21 | 18 米 11 | 5≈24 | 5954 | 10≈45 | 11≈53 | 15≈ 1 | 20 米 19 | T 30 |

Delta T = 27.33 sec Greg. Calendar

DECEMBER 1673 GC 00:00 UT

| Day | Sid.t | 0 | 7) | φ | Q | δ | 4 | ħ | Ж | ¥ | 2 | ß | Ω | ţ | Š | Day |
|------|---------|-------------------|----------------|-----------------|----------------|-----------------|----------------|---------------|-----------------|------|-------|--------|-------|----------------|----------------|------|
| F 1 | 4 41 26 | 9 × 128'10 | 9 m)16 | 18 .7 47 | 5 M 19 | 14 M .31 | 7 M .16 | 8°R20 | 18) (11 | 5≈25 | 5°R53 | 10°R45 | 11≈50 | 15≈ 8 | 20°D19 | F 1 |
| S 2 | 4 45 23 | 10°29'07 | 23°11 | 20°20 | 6°33 | 15°12 | 7°28 | 8 Ƴ 19 | 18°11 | 5°27 | 5952 | 10≈45 | 11°47 | 15°14 | 20 ∺ 19 | S 2 |
| S 3 | 4 49 19 | 11°30'06 | 6 ₽ 57 | 21°54 | 7°47 | 15°53 | 7°40 | 8°18 | 18°12 | 5°28 | 5°51 | 10°42 | 11°44 | 15°21 | 20°19 | S 3 |
| M 4 | 4 53 16 | 12°31'05 | 20°33 | 23°27 | 9° 0 | 16°35 | 7°52 | 8°17 | 18°12 | 5°30 | 5°50 | 10°36 | 11°41 | 15°28 | 20°20 | M 4 |
| T 5 | 4 57 12 | 13°32'06 | 3 M .58 | 25° 0 | 10°14 | 17°16 | 8° 4 | 8°16 | 18°12 | 5°31 | 5°49 | 10°28 | 11°38 | 15°34 | 20°20 | T 5 |
| W 6 | 5 1 9 | 14°33'08 | 17°12 | 26°33 | 11°28 | 17°57 | 8°16 | 8°16 | 18°13 | 5°33 | 5°48 | 10°19 | 11°34 | 15°41 | 20°20 | W 6 |
| T 7 | 5 5 6 | 15°34'11 | 0 才 14 | 28° 5 | 12°42 | 18°38 | 8°28 | 8°15 | 18°13 | 5°34 | 5°46 | 10° 8 | 11°31 | 15°48 | 20°20 | T 7 |
| F 8 | 5 9 2 | 16°35'14 | 13° 2 | 29°38 | 13°56 | 19°19 | 8°39 | 8°15 | 18°14 | 5°36 | 5°45 | 9°58 | 11°28 | 15°54 | 20°21 | F 8 |
| S 9 | 5 12 59 | 17°36'19 | 25°36 | 1 궁 10 | 15°10 | 20° 1 | 8°51 | 8°15 | 18°14 | 5°38 | 5°44 | 9°49 | 11°25 | 16° 1 | 20°21 | S 9 |
| S 10 | 5 16 55 | 18°37'24 | 7 궁 57 | 2°43 | 16°24 | 20°42 | 9° 2 | 8°15 | 18°15 | 5°39 | 5°43 | 9°42 | 11°22 | 16° 8 | 20°22 | S 10 |
| M11 | 5 20 52 | 19°38'30 | 20° 4 | 4°14 | 17°38 | 21°23 | 9°14 | 8°D15 | 18°16 | 5°41 | 5°42 | 9°38 | 11°18 | 16°14 | 20°22 | M11 |
| T 12 | 5 24 48 | 20°39'36 | 2≈ 2 | 5°46 | 18°52 | 22° 5 | 9°25 | 8°15 | 18°16 | 5°43 | 5°41 | 9°35 | 11°15 | 16°21 | 20°23 | T 12 |
| W13 | 5 28 45 | 21°40'43 | 13°52 | 7°16 | 20° 7 | 22°46 | 9°37 | 8°15 | 18°17 | 5°44 | 5°39 | 9°D35 | 11°12 | 16°28 | 20°24 | W13 |
| T 14 | 5 32 42 | 22°41'50 | 25°38 | 8°47 | 21°21 | 23°28 | 9°48 | 8°15 | 18°18 | 5°46 | 5°38 | 9°36 | 11° 9 | 16°34 | 20°24 | T 14 |
| F 15 | 5 36 38 | 23°42'57 | 7 ∺ 26 | 10°16 | 22°35 | 24° 9 | 9°59 | 8°16 | 18°19 | 5°48 | 5°37 | 9°38 | 11° 6 | 16°41 | 20°25 | F 15 |
| S 16 | 5 40 35 | 24°44'05 | 19°20 | 11°44 | 23°49 | 24°51 | 10°10 | 8°16 | 18°20 | 5°50 | 5°36 | 9°R39 | 11° 3 | 16°48 | 20°26 | S 16 |
| S 17 | 5 44 31 | 25°45'13 | 1 Y 26 | 13°12 | 25° 4 | 25°32 | 10°21 | 8°17 | 18°21 | 5°52 | 5°35 | 9°39 | 10°59 | 16°54 | 20°27 | S 17 |
| M18 | 5 48 28 | 26°46'21 | 13°48 | 14°37 | 26°18 | 26°14 | 10°32 | 8°18 | 18°22 | 5°54 | 5°33 | 9°37 | 10°56 | 17° 1 | 20°28 | M18 |
| T 19 | 5 52 24 | 27°47'29 | 26°32 | 16° 1 | 27°32 | 26°55 | 10°43 | 8°18 | 18°23 | 5°55 | 5°32 | 9°33 | 10°53 | 17° 7 | 20°29 | T 19 |
| W20 | 5 56 21 | 28°48'37 | 9 8 41 | 17°23 | 28°47 | 27°37 | 10°54 | 8°19 | 18°24 | 5°57 | 5°31 | 9°28 | 10°50 | 17°14 | 20°30 | W20 |
| T 21 | 6 0 17 | 29°49'45 | 23°16 | 18°43 | 0 ≯ 1 | 28°19 | 11° 5 | 8°20 | 18°26 | 5°59 | 5°30 | 9°22 | 10°47 | 17°21 | 20°31 | T 21 |
| F 22 | 6 4 14 | 0 궁 50'54 | 7 Ⅱ 18 | 20° 0 | 1°15 | 29° 0 | 11°15 | 8°22 | 18°27 | 6° 1 | 5°28 | 9°15 | 10°44 | 17°27 | 20°32 | F 22 |
| S 23 | 6 8 1 1 | 1°52'02 | 21°42 | 21°13 | 2°30 | 29°42 | 11°26 | 8°23 | 18°28 | 6° 3 | 5°27 | 9° 9 | 10°40 | 17°34 | 20°33 | S 23 |
| S 24 | 6 12 7 | 2°53'11 | 6923 | 22°23 | 3°44 | 0 ₹ 24 | 11°36 | 8°24 | 18°29 | 6° 5 | 5°26 | 9° 5 | 10°37 | 17°41 | 20°35 | S 24 |
| M25 | 6 16 4 | 3°54'20 | 21°14 | 23°28 | 4°59 | 1° 6 | 11°47 | 8°26 | 18°31 | 6° 7 | 5°25 | 9° 2 | 10°34 | 17°47 | 20°36 | M25 |
| T 26 | 6 20 0 | 4°55'29 | 6 N 7 | 24°28 | 6°13 | 1°48 | 11°57 | 8°28 | 18°32 | 6° 9 | 5°24 | 9°D 0 | 10°31 | 17°54 | 20°37 | T 26 |
| W27 | 6 23 57 | 5°56'38 | 20°53 | 25°22 | 7°28 | 2°29 | 12° 7 | 8°29 | 18°34 | 6°11 | 5°22 | 9° 1 | 10°28 | 18° 1 | 20°39 | W27 |
| T 28 | 6 27 53 | 6°57'48 | 5 m 28 | 26° 9 | 8°43 | 3°11 | 12°17 | 8°31 | 18°35 | 6°13 | 5°21 | 9° 2 | 10°24 | 18° 7 | 20°40 | T 28 |
| F 29 | 6 31 50 | 7°58'58 | 19°47 | 26°48 | 9°57 | 3°53 | 12°27 | 8°33 | 18°37 | 6°15 | 5°20 | 9° 4 | 10°21 | 18°14 | 20°42 | F 29 |
| S 30 | 6 35 46 | 9° 0'08 | 3 ჲ 48 | 27°18 | 11°12 | 4°35 | 12°37 | 8°35 | 18°38 | 6°17 | 5°19 | 9°R 5 | 10°18 | 18°21 | 20°44 | S 30 |
| S 31 | 6 39 43 | 10궁 1'18 | 17 ≏ 31 | 27 る 40 | 12 × 26 | 5 √ 17 | 12 M 47 | 8 Ƴ 37 | 18) 40 | 6≈19 | 5917 | 9≈ 5 | 10≈15 | 18 ≈ 27 | 20 ∺ 45 | S 31 |

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JANUARY 1674 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)f(| 卉 | Р | n | v | Ç | ę, | Day |
|------|---------|----------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|------|-------|-------|---------------|-------|-----------------|------|
| M 1 | 6 43 40 | 11궁 2'29 | 0 M .56 | 27°R50 | 13 ~ 41 | 5 ₹ 59 | 12 M .56 | 8 Υ 40 | 18) 42 | 6≈21 | 5°R16 | 9°R 3 | 10≈12 | 18≈34 | 20) (47 | M 1 |
| T 2 | 6 47 36 | 12° 3'39 | 14° 5 | 27 궁 50 | 14°56 | 6°41 | 13° 6 | 8°42 | 18°44 | 6°24 | 59915 | 9≈ 0 | 10° 9 | 18°41 | 20°49 | T 2 |
| W 3 | 6 51 33 | 13° 4'50 | 26°59 | 27°38 | 16°10 | 7°23 | 13°16 | 8°44 | 18°45 | 6°26 | 5°14 | 8°56 | 10° 5 | 18°47 | 20°50 | W 3 |
| T 4 | 6 55 29 | 14° 6'01 | 9 ∡ 139 | 27°14 | 17°25 | 8° 6 | 13°25 | 8°47 | 18°47 | 6°28 | 5°12 | 8°52 | 10° 2 | 18°54 | 20°52 | T 4 |
| F 5 | 6 59 26 | 15° 7'12 | 22° 7 | 26°38 | 18°40 | 8°48 | 13°34 | 8°50 | 18°49 | 6°30 | 5°11 | 8°48 | 9°59 | 19° 0 | 20°54 | F 5 |
| S 6 | 7 3 22 | 16° 8'22 | 4 궁 24 | 25°52 | 19°55 | 9°30 | 13°43 | 8°52 | 18°51 | 6°32 | 5°10 | 8°44 | 9°56 | 19° 7 | 20°56 | S 6 |
| S 7 | 7 7 19 | 17° 9'33 | 16°31 | 24°55 | 21° 9 | 10°12 | 13°52 | 8°55 | 18°53 | 6°34 | 5° 9 | 8°42 | 9°53 | 19°14 | 20°58 | S 7 |
| M 8 | 7 11 15 | 18°10'43 | 28°30 | 23°49 | 22°24 | 10°55 | 14° 1 | 8°58 | 18°55 | 6°36 | 5° 8 | 8°40 | 9°50 | 19°20 | 21° 0 | M 8 |
| T 9 | 7 15 12 | 19°11'52 | 10≈22 | 22°37 | 23°39 | 11°37 | 14°10 | 9° 1 | 18°57 | 6°39 | 5° 6 | 8°D40 | 9°46 | 19°27 | 21° 2 | T 9 |
| W10 | 7 19 9 | 20°13'01 | 22°10 | 21°20 | 24°54 | 12°19 | 14°19 | 9° 5 | 18°59 | 6°41 | 5° 5 | 8°40 | 9°43 | 19°34 | 21° 4 | W10 |
| T 11 | 7 23 5 | 21°14'09 | 3 ∺ 56 | 20° 2 | 26° 8 | 13° 2 | 14°27 | 9° 8 | 19° 1 | 6°43 | 5° 4 | 8°42 | 9°40 | 19°40 | 21° 7 | T 11 |
| F 12 | 7 27 2 | 22°15'16 | 15°45 | 18°43 | 27°23 | 13°44 | 14°35 | 9°11 | 19° 4 | 6°45 | 5° 3 | 8°43 | 9°37 | 19°47 | 21° 9 | F 12 |
| S 13 | 7 30 58 | 23°16'23 | 27°39 | 17°28 | 28°38 | 14°26 | 14°44 | 9°15 | 19° 6 | 6°47 | 5° 2 | 8°45 | 9°34 | 19°54 | 21°11 | S 13 |
| S 14 | 7 34 55 | 24°17'29 | 9 Ƴ 43 | 16°17 | 29°53 | 15° 9 | 14°52 | 9°18 | 19°8 | 6°50 | 5° 1 | 8°46 | 9°30 | 20° 0 | 21°13 | S 14 |
| M15 | 7 38 51 | 25°18'33 | 22° 2 | 15°13 | 1る8 | 15°51 | 15° 0 | 9°22 | 19°10 | 6°52 | 4°59 | 8°R46 | 9°27 | 20° 7 | 21°16 | M15 |
| T 16 | 7 42 48 | 26°19'37 | 4841 | 14°17 | 2°22 | 16°34 | 15° 8 | 9°26 | 19°13 | 6°54 | 4°58 | 8°46 | 9°24 | 20°14 | 21°18 | T 16 |
| W17 | 7 46 44 | 27°20'40 | 17°43 | 13°29 | 3°37 | 17°16 | 15°16 | 9°30 | 19°15 | 6°56 | 4°57 | 8°45 | 9°21 | 20°20 | 21°21 | W17 |
| T 18 | 7 50 41 | 28°21'42 | 1 I I11 | 12°51 | 4°52 | 17°59 | 15°23 | 9°34 | 19°18 | 6°59 | 4°56 | 8°44 | 9°18 | 20°27 | 21°23 | T 18 |
| F 19 | 7 54 38 | 29°22'44 | 15° 7 | 12°21 | 6° 7 | 18°42 | 15°31 | 9°38 | 19°20 | 7° 1 | 4°55 | 8°43 | 9°15 | 20°34 | 21°26 | F 19 |
| S 20 | 7 58 34 | 0≈23'44 | 29°30 | 12° 1 | 7°22 | 19°24 | 15°38 | 9°42 | 19°23 | 7° 3 | 4°54 | 8°42 | 9°11 | 20°40 | 21°28 | S 20 |
| S 21 | 8 2 31 | 1°24'43 | 149516 | 11°49 | 8°37 | 20° 7 | 15°45 | 9°46 | 19°25 | 7° 5 | 4°53 | 8°41 | 9° 8 | 20°47 | 21°31 | S 21 |
| M22 | 8 6 27 | 2°25'41 | 29°18 | 11°D46 | 9°51 | 20°50 | 15°52 | 9°50 | 19°28 | 7° 8 | 4°52 | 8°41 | 9° 5 | 20°53 | 21°34 | M22 |
| T 23 | 8 10 24 | 3°26'38 | 14 Ω 29 | 11°51 | 11° 6 | 21°32 | 15°59 | 9°55 | 19°30 | 7°10 | 4°50 | 8°D41 | 9° 2 | 21° 0 | 21°36 | T 23 |
| W24 | 8 14 20 | 4°27'34 | 29°38 | 12° 3 | 12°21 | 22°15 | 16° 6 | 9°59 | 19°33 | 7°12 | 4°49 | 8°41 | 8°59 | 21° 7 | 21°39 | W24 |
| T 25 | 8 18 17 | 5°28'29 | 14 M p36 | 12°21 | 13°36 | 22°58 | 16°13 | 10° 4 | 19°36 | 7°15 | 4°48 | 8°41 | 8°56 | 21°13 | 21°42 | T 25 |
| F 26 | 8 22 14 | 6°29'23 | 29°16 | 12°46 | 14°51 | 23°41 | 16°19 | 10° 8 | 19°38 | 7°17 | 4°47 | 8°41 | 8°52 | 21°20 | 21°45 | F 26 |
| S 27 | 8 26 10 | 7°30'17 | 13 ≏ 34 | 13°17 | 16° 6 | 24°24 | 16°26 | 10°13 | 19°41 | 7°19 | 4°46 | 8°42 | 8°49 | 21°27 | 21°47 | S 27 |
| S 28 | 8 30 7 | 8°31'10 | 27°27 | 13°52 | 17°20 | 25° 7 | 16°32 | 10°18 | 19°44 | 7°21 | 4°45 | 8°R42 | 8°46 | 21°33 | 21°50 | S 28 |
| M29 | 8 34 3 | 9°32'02 | 10 M 55 | 14°33 | 18°35 | 25°50 | 16°38 | 10°23 | 19°47 | 7°24 | 4°44 | 8°D42 | 8°43 | 21°40 | 21°53 | M29 |
| T 30 | 8 38 0 | 10°32'53 | 23°59 | 1 <u>5</u> °18 | 1 <u>9</u> °50 | 26°33 | 16°44 | 10°28 | 19°49 | 7°26 | 4°43 | 8°42 | 8°40 | 21°47 | 21°56 | T 30 |
| W31 | 8 41 56 | 11≈33'43 | 6 ₹ 44 | 16 ਰ 7 | 21궁 5 | 27 × 16 | 16 M 49 | 10 Y 33 | 19 米 52 | 7≈28 | 49542 | 8≈42 | 8 ≈ 36 | 21≈53 | 21 米 59 | W31 |

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FEBRUARY 1674 GC 00:00 UT

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|------|----------|------------------|-----------------|----------------|----------------|-----------------|----------------|----------------|------------------|------|-------|-------|------|-------|----------------|------|
| T 1 | 8 45 53 | 12≈34'33 | 19 .7 11 | 16 궁 59 | 22 궁 20 | 27 × 759 | 16 M 55 | 10 Y 38 | 19 米 55 | 7≈31 | 4°R41 | 8≈42 | 8≈33 | 22≈ 0 | 22 米 2 | T 1 |
| F 2 | 8 49 49 | 13°35'21 | 1 3 25 | 17°55 | 23°35 | 28°42 | 17° 0 | 10°43 | 19°58 | 7°33 | 49640 | 8°43 | 8°30 | 22° 7 | 22° 5 | F 2 |
| S 3 | 8 53 46 | 14°36'08 | 13°28 | 18°53 | 24°50 | 29°25 | 17° 6 | 10°48 | 20° 1 | 7°35 | 4°40 | 8°43 | 8°27 | 22°13 | 22° 8 | S 3 |
| S 4 | 8 57 43 | 15°36'55 | 25°24 | 19°55 | 26° 4 | 8 と0 | 17°11 | 10°54 | 20° 4 | 7°37 | 4°39 | 8°44 | 8°24 | 22°20 | 22°11 | S 4 |
| M 5 | 9 1 39 | 16°37'39 | 7≈15 | 20°58 | 27°19 | 0°51 | 17°16 | 10°59 | 20° 7 | 7°40 | 4°38 | 8°R44 | 8°21 | 22°27 | 22°15 | M 5 |
| T 6 | 9 5 36 | 17°38'23 | 19° 3 | 22° 5 | 28°34 | 1°34 | 17°21 | 11° 4 | 20°10 | 7°42 | 4°37 | 8°44 | 8°17 | 22°33 | 22°18 | T 6 |
| W 7 | 9 9 32 | 18°39'05 | 0) ₹ 50 | 23°13 | 29°49 | 2°18 | 17°25 | 11°10 | 20°13 | 7°44 | 4°36 | 8°43 | 8°14 | 22°40 | 22°21 | W 7 |
| T 8 | 9 13 29 | 19°39'45 | 12°39 | 24°24 | 1≈ 4 | 3° 1 | 17°30 | 11°16 | 20°16 | 7°46 | 4°35 | 8°42 | 8°11 | 22°47 | 22°24 | T 8 |
| F 9 | 9 17 25 | 20°40'24 | 24°32 | 25°36 | 2°19 | 3°44 | 17°34 | 11°21 | 20°19 | 7°49 | 4°34 | 8°40 | 8° 8 | 22°53 | 22°27 | F 9 |
| S 10 | 9 21 22 | 21°41'02 | 6 Ƴ 31 | 26°50 | 3°34 | 4°27 | 17°38 | 11°27 | 20°22 | 7°51 | 4°34 | 8°38 | 8° 5 | 23° 0 | 22°31 | S 10 |
| S 11 | 9 25 18 | 22°41'38 | 18°39 | 28° 5 | 4°48 | 5°11 | 17°42 | 11°33 | 20°25 | 7°53 | 4°33 | 8°36 | 8° 1 | 23° 6 | 22°34 | S 11 |
| M12 | 9 29 15 | 23°42'12 | 0 8 59 | 29°23 | 6° 3 | 5°54 | 17°46 | 11°39 | 20°28 | 7°55 | 4°32 | 8°35 | 7°58 | 23°13 | 22°37 | M12 |
| T 13 | 9 33 12 | 24°42'44 | 13°36 | 0≈41 | 7°18 | 6°37 | 17°49 | 11°45 | 20°31 | 7°57 | 4°31 | 8°33 | 7°55 | 23°20 | 22°41 | T 13 |
| W14 | 9 37 8 | 25°43'14 | 26°31 | 2° 1 | 8°33 | 7°21 | 17°53 | 11°51 | 20°35 | 8° 0 | 4°31 | 8°D33 | 7°52 | 23°26 | 22°44 | W14 |
| T 15 | 9 41 5 | 26°43'43 | 9∏50 | 3°23 | 9°48 | 8° 4 | 17°56 | 11°57 | 20°38 | 8° 2 | 4°30 | 8°34 | 7°49 | 23°33 | 22°47 | T 15 |
| F 16 | 9 45 1 | 27°44'09 | 23°33 | 4°46 | 11° 2 | 8°48 | 17°59 | 12° 3 | 20°41 | 8° 4 | 4°29 | 8°35 | 7°46 | 23°40 | 22°51 | F 16 |
| S 17 | 9 48 58 | 28°44'34 | 79543 | 6°10 | 12°17 | 9°31 | 18° 2 | 12° 9 | 20°44 | 8° 6 | 4°29 | 8°36 | 7°42 | 23°46 | 22°54 | S 17 |
| S 18 | 9 52 54 | 29°44'57 | 22°17 | 7°35 | 13°32 | 10°15 | 18° 4 | 12°15 | 20°48 | 8° 8 | 4°28 | 8°37 | 7°39 | 23°53 | 22°58 | S 18 |
| M19 | 9 56 51 | 0) 45′18 | 7 Ω 12 | 9° 1 | 14°47 | 10°58 | 18° 7 | 12°22 | 20°51 | 8°11 | 4°27 | 8°R38 | 7°36 | 24° 0 | 23° 1 | M19 |
| T 20 | 10 0 47 | 1°45'37 | 22°22 | 10°28 | 16° 2 | 11°42 | 18° 9 | 12°28 | 20°54 | 8°13 | 4°27 | 8°37 | 7°33 | 24° 6 | 23° 5 | T 20 |
| W21 | 10 4 44 | 2°45'54 | 7 ™ 37 | 11°57 | 17°16 | 12°25 | 18°11 | 12°34 | 20°57 | 8°15 | 4°26 | 8°36 | 7°30 | 24°13 | 23° 8 | W21 |
| T 22 | 10 8 41 | 3°46'10 | 22°47 | 13°27 | 18°31 | 13° 9 | 18°13 | 12°41 | 21° 1 | 8°17 | 4°26 | 8°33 | 7°27 | 24°20 | 23°12 | T 22 |
| F 23 | 10 12 37 | 4°46'24 | 7 ≏ 43 | 14°58 | 19°46 | 13°52 | 18°15 | 12°47 | 21° 4 | 8°19 | 4°25 | 8°29 | 7°23 | 24°26 | 23°15 | F 23 |
| S 24 | 10 16 34 | 5°46'36 | 22°17 | 16°29 | 21° 1 | 14°36 | 18°17 | 12°54 | 21° 7 | 8°21 | 4°25 | 8°25 | 7°20 | 24°33 | 23°19 | S 24 |
| S 25 | 10 20 30 | 6°46'46 | 6 M 24 | 18° 2 | 22°15 | 15°20 | 18°18 | 13° 0 | 21°11 | 8°23 | 4°24 | 8°22 | 7°17 | 24°40 | 23°22 | S 25 |
| M26 | 10 24 27 | 7°46'56 | 20° 2 | 19°37 | 23°30 | 16° 4 | 18°19 | 13° 7 | 21°14 | 8°25 | 4°24 | 8°19 | 7°14 | 24°46 | 23°26 | M26 |
| T 27 | 10 28 23 | 8°47'03 | 3 ₹ 12 | 21°12 | 24°45 | 16°47 | 18°20 | 13°14 | 21°17 | 8°27 | 4°23 | 8°D18 | 7°11 | 24°53 | 23°30 | T 27 |
| W28 | 10 32 20 | 9 米 47'09 | 15 ∡ 57 | 22≈48 | 25≈59 | 17 ට 31 | 18 M 21 | 13 Y 21 | 21 米 21 | 8≈29 | 4923 | 8≈18 | 7≈ 7 | 25≈ 0 | 23) 33 | W28 |

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|------|----------|-------------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|---------------|-------|---------------|------|-------|----------------|------|
| T 1 | 10 36 16 | 10) 47'14 | 28 × 21 | 24≈25 | 27≈14 | 18 ට 15 | 18 M 22 | 13 Y 27 | 21) 24 | 8 ≈ 31 | 4°R22 | 8 ≈ 19 | 7≈ 4 | 25≈ 6 | 23) 37 | T 1 |
| F 2 | 10 40 13 | 11°47'17 | 10 궁 29 | 26° 4 | 28°29 | 18°59 | 18°22 | 13°34 | 21°28 | 8°33 | 49522 | 8°21 | 7° 1 | 25°13 | 23°40 | F 2 |
| S 3 | 10 44 10 | 12°47'18 | 22°26 | 27°43 | 29°44 | 19°43 | 18°23 | 13°41 | 21°31 | 8°35 | 4°22 | 8°22 | 6°58 | 25°19 | 23°44 | S 3 |
| S 4 | 10 48 6 | 13°47'17 | 4≈16 | 29°24 | 0) ₹58 | 20°26 | 18°R23 | 13°48 | 21°34 | 8°37 | 4°21 | 8°R24 | 6°55 | 25°26 | 23°48 | S 4 |
| M 5 | 10 52 3 | 14°47'15 | 16° 2 | 1) 6 | 2°13 | 21°10 | 18°23 | 13°55 | 21°38 | 8°39 | 4°21 | 8°23 | 6°52 | 25°33 | 23°51 | M 5 |
| T 6 | 10 55 59 | 15°47'11 | 27°49 | 2°49 | 3°28 | 21°54 | 18°22 | 14° 2 | 21°41 | 8°41 | 4°21 | 8°21 | 6°48 | 25°39 | 23°55 | T 6 |
| W 7 | 10 59 56 | 16°47'05 | 9) 38 | 4°33 | 4°42 | 22°38 | 18°22 | 14° 9 | 21°45 | 8°43 | 4°20 | 8°17 | 6°45 | 25°46 | 23°59 | W 7 |
| T 8 | 11 3 52 | 17°46'57 | 21°33 | 6°18 | 5°57 | 23°22 | 18°21 | 14°16 | 21°48 | 8°45 | 4°20 | 8°12 | 6°42 | 25°53 | 24° 2 | T 8 |
| F 9 | 11 7 49 | 18°46'47 | 3 Υ 34 | 8° 4 | 7°12 | 24° 6 | 18°20 | 14°23 | 21°51 | 8°47 | 4°20 | 8° 5 | 6°39 | 25°59 | 24° 6 | F 9 |
| S 10 | 11 11 45 | 19°46'35 | 15°43 | 9°52 | 8°26 | 24°50 | 18°19 | 14°30 | 21°55 | 8°49 | 4°20 | 7°57 | 6°36 | 26° 6 | 24°10 | S 10 |
| S 11 | 11 15 42 | 20°46'21 | 28° 2 | 11°41 | 9°41 | 25°34 | 18°18 | 14°37 | 21°58 | 8°50 | 4°19 | 7°49 | 6°33 | 26°13 | 24°13 | S 11 |
| M12 | 11 19 38 | 21°46'04 | 10832 | 13°31 | 10°56 | 26°18 | 18°17 | 14°45 | 22° 2 | 8°52 | 4°19 | 7°41 | 6°29 | 26°19 | 24°17 | M12 |
| T 13 | 11 23 35 | 22°45'46 | 23°15 | 15°22 | 12°10 | 27° 2 | 18°15 | 14°52 | 22° 5 | 8°54 | 4°19 | 7°36 | 6°26 | 26°26 | 24°21 | T 13 |
| W14 | 11 27 32 | 23°45'25 | 6 Ⅱ 13 | 17°14 | 13°25 | 27°46 | 18°13 | 14°59 | 22° 9 | 8°56 | 4°19 | 7°32 | 6°23 | 26°33 | 24°25 | W14 |
| T 15 | 11 31 28 | 24°45'02 | 19°27 | 19°8 | 14°39 | 28°30 | 18°11 | 15° 6 | 22°12 | 8°57 | 4°19 | 7°D31 | 6°20 | 26°39 | 24°28 | T 15 |
| F 16 | 11 35 25 | 25°44'37 | 395 2 | 21° 3 | 15°54 | 29°14 | 18° 9 | 15°14 | 22°16 | 8°59 | 4°19 | 7°31 | 6°17 | 26°46 | 24°32 | F 16 |
| S 17 | 11 39 21 | 26°44'10 | 16°57 | 22°59 | 17° 8 | 29°58 | 18° 7 | 15°21 | 22°19 | 9° 1 | 4°19 | 7°32 | 6°13 | 26°53 | 24°36 | S 17 |
| S 18 | 11 43 18 | 27°43'40 | 1 Ω 13 | 24°56 | 18°23 | 0≈43 | 18° 4 | 15°28 | 22°22 | 9° 2 | 4°D19 | 7°R33 | 6°10 | 26°59 | 24°39 | S 18 |
| M19 | 11 47 14 | 28°43'07 | 15°50 | 26°54 | 19°38 | 1°27 | 18° 1 | 15°36 | 22°26 | 9° 4 | 4°19 | 7°33 | 6° 7 | 27° 6 | 24°43 | M19 |
| T 20 | 11 51 11 | 29°42'33 | 0 m 43 | 28°53 | 20°52 | 2°11 | 17°59 | 15°43 | 22°29 | 9° 6 | 4°19 | 7°31 | 6° 4 | 27°13 | 24°47 | T 20 |
| W21 | 11 55 7 | 0 Υ 41'56 | 15°45 | 0 Υ 53 | 22° 7 | 2°55 | 17°56 | 15°51 | 22°33 | 9° 7 | 4°19 | 7°26 | 6° 1 | 27°19 | 24°50 | W21 |
| T 22 | 11 59 4 | 1°41'17 | 0 ჲ 49 | 2°54 | 23°21 | 3°39 | 17°52 | 15°58 | 22°36 | 9° 9 | 4°19 | 7°20 | 5°58 | 27°26 | 24°54 | T 22 |
| F 23 | 12 3 1 | 2°40'35 | 15°44 | 4°56 | 24°36 | 4°23 | 17°49 | 16° 6 | 22°39 | 9°10 | 4°19 | 7°11 | 5°54 | 27°33 | 24°58 | F 23 |
| S 24 | 12 6 57 | 3°39'52 | 0 M 22 | 6°59 | 25°50 | 5° 8 | 17°45 | 16°13 | 22°43 | 9°12 | 4°19 | 7° 2 | 5°51 | 27°39 | 25° 1 | S 24 |
| S 25 | 12 10 54 | 4°39'07 | 14°35 | 9° 2 | 27° 4 | 5°52 | 17°42 | 16°21 | 22°46 | 9°13 | 4°19 | 6°54 | 5°48 | 27°46 | 25° 5 | S 25 |
| M26 | 12 14 50 | 5°38'21 | 28°21 | 11° 5 | 28°19 | 6°36 | 17°38 | 16°28 | 22°50 | 9°15 | 4°20 | 6°46 | 5°45 | 27°52 | 25° 9 | M26 |
| T 27 | 12 18 47 | 6°37'32 | 11 ~ 38 | 13° 8 | 29°33 | 7°20 | 17°34 | 16°36 | 22°53 | 9°16 | 4°20 | 6°41 | 5°42 | 27°59 | 25°12 | T 27 |
| W28 | 12 22 43 | 7°36'42 | 24°28 | 15°11 | 0 Υ 48 | 8° 5 | 17°29 | 16°43 | 22°56 | 9°18 | 4°20 | 6°38 | 5°39 | 28° 6 | 25°16 | W28 |
| T 29 | 12 26 40 | 8°35'50 | 6 ප 55 | 17°13 | 2° 2 | 8°49 | 17°25 | 16°51 | 23° 0 | 9°19 | 4°20 | 6°D37 | 5°35 | 28°12 | 25°20 | T 29 |
| F 30 | 12 30 36 | 9°34'56 | 19° 4 | 19°15 | 3°16 | 9°33 | 17°20 | 16°58 | 23° 3 | 9°21 | 4°21 | 6°38 | 5°32 | 28°19 | 25°23 | F 30 |
| S 31 | 12 34 33 | 10 Y 34'00 | 1≈ 0 | 21 Y 15 | 4 Υ31 | 10≈18 | 17 M .16 | 17 Y 6 | 23 ∺ 6 | 9≈22 | 49521 | 6°R38 | 5≈29 | 28≈26 | 25 米 27 | S 31 |
| 5 31 | 12 34 33 | 10 1 34 00 | 1≈ 0 | 21 1 13 | 4131 | 10≈18 | 1/11616 | 1/1 6 | 23π b | 9 ≈ 42 | 12021 | 0°K38 | 3≈29 | 28≈26 | 23 T 21 | 3 |

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| Day | Sid.t | 0 | D | ğ | Ş | ď | 4 | ħ |)f(| Ħ | Р | ß | Ω | ţ | ę, | Day |
|------|----------|-------------------|-----------------|----------------|---------------|---------------|---------------|----------------|------------------|---------------|-------|-------|------|-----------------|-----------------|------|
| S 1 | 12 38 30 | 11 Y 33'02 | 12≈48 | 23 Y 14 | 5 Υ 45 | 11≈ 2 | 17°R11 | 17 Y 13 | 23 米 10 | 9≈23 | 49521 | 6°R38 | 5≈26 | 28≈32 | 25) (30 | S 1 |
| M 2 | 12 42 26 | 12°32'03 | 24°35 | 25°11 | 7° 0 | 11°46 | 17 M 6 | 17°21 | 23°13 | 9°24 | 4°22 | 6≈37 | 5°23 | 28°39 | 25°34 | M 2 |
| T 3 | 12 46 23 | 13°31'02 | 6 ∺ 23 | 27° 6 | 8°14 | 12°31 | 17° 1 | 17°29 | 23°16 | 9°26 | 4°22 | 6°32 | 5°19 | 28°46 | 25°38 | T 3 |
| W 4 | 12 50 19 | 14°29'58 | 18°17 | 28°58 | 9°28 | 13°15 | 16°55 | 17°36 | 23°19 | 9°27 | 4°22 | 6°26 | 5°16 | 28°52 | 25°41 | W 4 |
| T 5 | 12 54 16 | 15°28'53 | 0 Υ 19 | 0 8 46 | 10°43 | 13°59 | 16°50 | 17°44 | 23°23 | 9°28 | 4°23 | 6°16 | 5°13 | 28°59 | 25°45 | T 5 |
| F 6 | 12 58 12 | 16°27'46 | 12°31 | 2°32 | 11°57 | 14°44 | 16°44 | 17°51 | 23°26 | 9°29 | 4°23 | 6° 5 | 5°10 | 29° 6 | 25°48 | F 6 |
| S 7 | 13 2 9 | 17°26'37 | 24°54 | 4°14 | 13°11 | 15°28 | 16°39 | 17°59 | 23°29 | 9°30 | 4°24 | 5°52 | 5° 7 | 29°12 | 25°52 | S 7 |
| S 8 | 13 6 5 | 18°25'26 | 7 8 29 | 5°52 | 14°26 | 16°12 | 16°33 | 18° 7 | 23°32 | 9°32 | 4°24 | 5°40 | 5° 4 | 29°19 | 25°55 | S 8 |
| M 9 | 13 10 2 | 19°24'13 | 20°16 | 7°26 | 15°40 | 16°57 | 16°27 | 18°14 | 23°35 | 9°33 | 4°25 | 5°28 | 5° 0 | 29°26 | 25°59 | M 9 |
| T 10 | 13 13 59 | 20°22'58 | 3 Ⅱ 15 | 8°55 | 16°54 | 17°41 | 16°21 | 18°22 | 23°39 | 9°34 | 4°25 | 5°18 | 4°57 | 29°32 | 26° 2 | T 10 |
| W11 | 13 17 55 | 21°21'41 | 16°25 | 10°20 | 18° 8 | 18°25 | 16°14 | 18°30 | 23°42 | 9°35 | 4°26 | 5°11 | 4°54 | 29°39 | 26° 5 | W11 |
| T 12 | 13 21 52 | 22°20'21 | 29°47 | 11°40 | 19°23 | 19°10 | 16° 8 | 18°37 | 23°45 | 9°36 | 4°26 | 5° 7 | 4°51 | 29°46 | 26° 9 | T 12 |
| F 13 | 13 25 48 | 23°18'59 | 139523 | 12°54 | 20°37 | 19°54 | 16° 2 | 18°45 | 23°48 | 9°37 | 4°27 | 5° 6 | 4°48 | 29°52 | 26°12 | F 13 |
| S 14 | 13 29 45 | 24°17'35 | 27°12 | 14° 4 | 21°51 | 20°38 | 15°55 | 18°52 | 23°51 | 9°38 | 4°27 | 5° 5 | 4°44 | 29°59 | 26°16 | S 14 |
| S 15 | 13 33 41 | 25°16'09 | 11 Ω 17 | 15° 8 | 23° 5 | 21°23 | 15°48 | 19° 0 | 23°54 | 9°38 | 4°28 | 5° 5 | 4°41 | 0 米 6 | 26°19 | S 15 |
| M16 | 13 37 38 | 26°14'41 | 25°35 | 16° 7 | 24°19 | 22° 7 | 15°42 | 19° 8 | 23°57 | 9°39 | 4°29 | 5° 4 | 4°38 | 0°12 | 26°22 | M16 |
| T 17 | 13 41 34 | 27°13'10 | 10 m 7 | 17° 1 | 25°33 | 22°52 | 15°35 | 19°15 | 24° 0 | 9°40 | 4°29 | 5° 1 | 4°35 | 0°19 | 26°26 | T 17 |
| W18 | 13 45 31 | 28°11'37 | 24°46 | 17°49 | 26°48 | 23°36 | 15°28 | 19°23 | 24° 3 | 9°41 | 4°30 | 4°55 | 4°32 | 0°26 | 26°29 | W18 |
| T 19 | 13 49 28 | 29°10'02 | 9 ഫ 28 | 18°31 | 28° 2 | 24°20 | 15°21 | 19°30 | 24° 6 | 9°42 | 4°31 | 4°46 | 4°29 | 0°32 | 26°32 | T 19 |
| F 20 | 13 53 24 | 0 8 8'25 | 24° 6 | 19° 8 | 29°16 | 25° 5 | 15°14 | 19°38 | 24° 9 | 9°42 | 4°31 | 4°36 | 4°25 | 0°39 | 26°35 | F 20 |
| S 21 | 13 57 21 | 1° 6'46 | 8 M .31 | 19°39 | 0 8 30 | 25°49 | 15° 7 | 19°45 | 24°12 | 9°43 | 4°32 | 4°24 | 4°22 | 0°46 | 26°38 | S 21 |
| S 22 | 14 117 | 2° 5'05 | 22°37 | 20° 4 | 1°44 | 26°33 | 14°59 | 19°53 | 24°15 | 9°44 | 4°33 | 4°12 | 4°19 | 0°52 | 26°42 | S 22 |
| M23 | 14 5 14 | 3° 3'23 | 6 × 19 | 20°24 | 2°58 | 27°18 | 14°52 | 20° 0 | 24°18 | 9°44 | 4°34 | 4° 2 | 4°16 | 0°59 | 26°45 | M23 |
| T 24 | 14 9 10 | 4° 1'39 | 19°36 | 20°38 | 4°12 | 28° 2 | 14°45 | 20° 8 | 24°21 | 9°45 | 4°35 | 3°55 | 4°13 | 1° 6 | 26°48 | T 24 |
| W25 | 14 13 7 | 4°59'53 | 2 ප 28 | 20°46 | 5°26 | 28°46 | 14°37 | 20°15 | 24°23 | 9°46 | 4°35 | 3°50 | 4°10 | 1°12 | 26°51 | W25 |
| T 26 | 14 17 3 | 5°58'06 | 14°58 | 20°R49 | 6°40 | 29°31 | 14°30 | 20°23 | 24°26 | 9°46 | 4°36 | 3°47 | 4° 6 | 1°19 | 26°54 | T 26 |
| F 27 | 14 21 0 | 6°56'18 | 27° 9 | 20°46 | 7°54 | 0 ∺ 15 | 14°22 | 20°30 | 24°29 | 9°47 | 4°37 | 3°46 | 4° 3 | 1°26 | 26°57 | F 27 |
| S 28 | 14 24 57 | 7°54'28 | 9≈ 7 | 20°39 | 9° 8 | 0°59 | 14°15 | 20°37 | 24°32 | 9°47 | 4°38 | 3°46 | 4° 0 | 1°32 | 27° 0 | S 28 |
| S 29 | 14 28 53 | 8°52'36 | 20°57 | 20°26 | 10°22 | 1°43 | 14° 7 | 20°45 | 24°34 | 9°48 | 4°39 | 3°46 | 3°57 | 1°39 | 27° 3 | S 29 |
| M30 | 14 32 50 | 9 8 50'43 | 2) (45 | 208 9 | 11836 | 2 ∺ 28 | 14 M 0 | 20 Y 52 | 24) (37 | 9 ≈ 48 | 49540 | 3≈44 | 3≈54 | 1) (46 | 27) 6 | M30 |

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| T 1 | 14 36 46 | 10848'48 | 14) 36 | 19°R48 | 12850 | 3 ∺ 12 | 13°R52 | 21 ° 0 | 24) (40 | 9≈48 | 49541 | 3°R40 | 3≈50 | 1 ¥ 52 | 27 ∺ 9 | T 1 |
| W 2 | 14 40 43 | 11°46'52 | 26°35 | 19823 | 14° 4 | 3°56 | 13 M .44 | 21° 7 | 24°42 | 9°49 | 4°42 | 3≈34 | 3°47 | 1°59 | 27°12 | W 2 |
| T 3 | 14 44 39 | 12°44'55 | 8 Υ 44 | 18°55 | 15°18 | 4°40 | 13°37 | 21°14 | 24°45 | 9°49 | 4°43 | 3°25 | 3°44 | 2° 6 | 27°14 | T 3 |
| F 4 | 14 48 36 | 13°42'56 | 21° 7 | 18°24 | 16°32 | 5°25 | 13°29 | 21°21 | 24°47 | 9°49 | 4°44 | 3°13 | 3°41 | 2°12 | 27°17 | F 4 |
| S 5 | 14 52 32 | 14°40'55 | 3 8 45 | 17°51 | 17°46 | 6° 9 | 13°22 | 21°29 | 24°50 | 9°49 | 4°45 | 3° 1 | 3°38 | 2°19 | 27°20 | S 5 |
| S 6 | 14 56 29 | 15°38'54 | 16°38 | 17°16 | 19° 0 | 6°53 | 13°14 | 21°36 | 24°52 | 9°50 | 4°46 | 2°48 | 3°35 | 2°26 | 27°23 | S 6 |
| M 7 | 15 0 26 | 16°36'50 | 29°45 | 16°40 | 20°14 | 7°37 | 13° 6 | 21°43 | 24°55 | 9°50 | 4°47 | 2°36 | 3°31 | 2°32 | 27°25 | M 7 |
| T 8 | 15 4 22 | 17°34'45 | 13 II 5 | 16° 4 | 21°27 | 8°21 | 12°59 | 21°50 | 24°57 | 9°50 | 4°48 | 2°27 | 3°28 | 2°39 | 27°28 | T 8 |
| W 9 | 15 8 19 | 18°32'39 | 26°36 | 15°28 | 22°41 23°55 | 9° 5 9°49 | 12°51 | 21°57 22° 4 | 24°59 25° 2 | 9°50 9°50 | 4°49 | 2°20 | 3°25 | 2°46 2°52 | 27°31 27°33 | W 9 T 10 |
| T 10 F 11 | 15 12 15 15 16 12 | 19°30'30 20°28'20 | 10 © 17 24° 6 | 14°54 14°20 | 25° 9 | 10°33 | 12°43 12°36 | 22° 4 22°11 | 25° 2 | 9°50 | 4°50 4°51 | 2°16 2°14 | 3°22 3°19 | 2°59 | 27°36 | F 11 |
| S 12 | 15 10 12 | 20 28 20 21°26'09 | 8Ω 2 | 13°49 | 26°23 | 10°33 | 12°28 | 22°18 | 25° 6 | 9°R50 | 4°52 | 2°D14 | 3°16 | 3° 6 | 27°38 | S 12 |
| | | | | | | | | | | | | | - | | | |
| S 13 | 15 24 5 | 22°23'55 | 22° 6 | 13°20 | 27°37 | 12° 1 | 12°21 | 22°25 | 25° 8 | 9°50 | 4°54 | 2°R14 | 3°12 | 3°12 | 27°41 | S 13 |
| M14 T 15 | 15 28 1 15 31 58 | 23°21'40 24°19'23 | 6 Mp 15 20°30 | 12°55 12°32 | 28°51 0 Ⅲ 4 | 12°45 13°29 | 12°13 12° 6 | 22°32 22°39 | 25°11 25°13 | 9°50 9°50 | 4°55 4°56 | 2°13 2°11 | 3° 9 3° 6 | 3°19 3°26 | 27°43 27°46 | M14 T 15 |
| W16 | 15 35 55 | 24 19 23 25°17'04 | 20 30 4 Ω 47 | 12°14 | 1°18 | 13 29 14°13 | 12 6 11°59 | 22°46 | 25°15 | 9°50 | 4°57 | 2° 6 | 3° 3 | 3°32 | 27°48 | W16 |
| T 17 | 15 39 51 | 26°14'44 | 19° 4 | 11°59 | 2°32 | 14°57 | 11°52 | 22°53 | 25°17 | 9°50 | 4°58 | 1°59 | 3° 0 | 3°39 | 27°50 | T 17 |
| F 18 | 15 43 48 | 27°12'22 | 3ML15 | 11°49 | 3°46 | 15°40 | 11°44 | 23° 0 | 25°19 | 9°50 | 5° 0 | 1°50 | 2°56 | 3°45 | 27°52 | F 18 |
| S 19 | 15 47 44 | 28° 9'59 | 17°16 | 11°42 | 4°59 | 16°24 | 11°37 | 23° 6 | 25°21 | 9°49 | 5° 1 | 1°40 | 2°53 | 3°52 | 27°55 | S 19 |
| S 20 | 15 51 41 | 29° 7'35 | 1 ~ 7 2 | 11°D41 | 6°13 | 17° 8 | 11°30 | 23°13 | 25°23 | 9°49 | 5° 2 | 1°30 | 2°50 | 3°59 | 27°57 | S 20 |
| M21 | 15 55 37 | 0 I 5'09 | 14°29 | 11°44 | 7°27 | 17°51 | 11°23 | 23°20 | 25°25 | 9°49 | 5° 3 | 1°21 | 2°47 | 4° 5 | 27°59 | M21 |
| T 22 | 15 59 34 | 1° 2'43 | 27°36 | 11°51 | 8°41 | 18°35 | 11°16 | 23°26 | 25°27 | 9°49 | 5° 5 | 1°14 | 2°44 | 4°12 | 28° 1 | T 22 |
| W23 | 16 3 30 | 2° 0'15 | 10중23 | 12° 3 | 9°54 | 19°19 | 11°10 | 23°33 | 25°28 | 9°48 | 5° 6 | 1°10 | 2°41 | 4°19 | 28° 3 | W23 |
| T 24 | 16 7 27 | 2°57'46 | 22°50 | 12°19 | 11° 8 | 20° 2 | 11° 3 | 23°39 | 25°30 | 9°48 | 5° 7 | 1°8 | 2°37 | 4°26 | 28° 5 | T 24 |
| F 25 | 16 11 24 | 3°55'17 | 5≈ 1 | 12°40 | 12°22 | 20°46 | 10°56 | 23°46 | 25°32 | 9°48 | 5° 8 | 1°D 8 | 2°34 | 4°32 | 28° 7 | F 25 |
| S 26 | 16 15 20 | 4°52'46 | 17° 0 | 13° 5 | 13°35 | 21°29 | 10°50 | 23°52 | 25°34 | 9°47 | 5°10 | 1° 8 | 2°31 | 4°39 | 28° 9 | S 26 |
| S 27 | 16 19 17 | 5°50'15 | 28°52 | 13°34 | 14°49 | 22°13 | 10°44 | 23°58 | 25°35 | 9°47 | 5°11 | 1° 9 | 2°28 | 4°46 | 28°11 | S 27 |
| M28 | 16 23 13 | 6°47'43 | 10) €42 | 14° 8 | 16° 3 | 22°56 | 10°37 | 24° 5 | 25°37 | 9°46 | 5°12 | 1°R 9 | 2°25 | 4°52 | 28°13 | M28 |
| T 29 | 16 27 10 | 7°45'10 | 22°35 | 14°45 | 17°16 | 23°39 | 10°31 | 24°11 | 25°38 | 9°46 | 5°14 | 1° 8 | 2°22 | 4°59 | 28°14 | T 29 |
| W30 | 16 31 6 | 8°42'36 | 4 Υ36 | 15°27 | 18°30 | 24°22 | 10°25 | 24°17 | 25°40 | 9°45 | 5°15 | 1° 5 | 2°18 | 5° 6 | 28°16 | W30 |
| T 31 | 16 35 3 | 9 Ⅱ 40'02 | 16 Ƴ 50 | 16 8 12 | 19 ∏ 44 | 25 ¥ 6 | 10 M .19 | 24 Y 23 | 25) (41 | 9 ≈ 45 | 59916 | 0≈59 | 2≈15 | 5 ¥ 12 | 28 米 18 | T 31 |

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|------|----------|-------------------|----------------|----------------|---------|-----------------|----------------|----------------|----------------|-------|--------------|----------------|------|---------------|------------------|------|
| F 1 | 16 38 59 | 10 Ⅲ 37'27 | 29 Υ 20 | 17 8 1 | 20耳57 | 25) (49 | 10°R14 | 24 Y 29 | 25) 43 | 9°R44 | 59918 | 0°R53 | 2≈12 | 5) 19 | 28) 19 | F 1 |
| S 2 | 16 42 56 | 11°34'52 | 12 8 8 | 17°54 | 22°11 | 26°32 | 10 M 8 | 24°35 | 25°44 | 9≈43 | 5°19 | 0≈44 | 2° 9 | 5°26 | 28°21 | S 2 |
| S 3 | 16 46 53 | 12°32'15 | 25°15 | 18°50 | 23°24 | 27°15 | 10° 2 | 24°41 | 25°46 | 9°43 | 5°21 | 0°36 | 2° 6 | 5°32 | 28°22 | S 3 |
| M 4 | 16 50 49 | 13°29'38 | 8 Ⅱ 41 | 19°50 | 24°38 | 27°58 | 9°57 | 24°47 | 25°47 | 9°42 | 5°22 | 0°28 | 2° 2 | 5°39 | 28°24 | M 4 |
| T 5 | 16 54 46 | 14°27'01 | 22°24 | 20°54 | 25°52 | 28°41 | 9°52 | 24°53 | 25°48 | 9°41 | 5°23 | 0°22 | 1°59 | 5°46 | 28°25 | T 5 |
| W 6 | 16 58 42 | 15°24'22 | 69519 | 22° 0 | 27° 5 | 29°23 | 9°47 | 24°59 | 25°49 | 9°40 | 5°25 | 0°18 | 1°56 | 5°52 | 28°27 | W 6 |
| T 7 | 17 2 39 | 16°21'43 | 20°25 | 23°11 | 28°19 | 0 Υ 6 | 9°42 | 25° 5 | 25°51 | 9°40 | 5°26 | 0°16 | 1°53 | 5°59 | 28°28 | T 7 |
| F 8 | 17 635 | 17°19'03 | 4 Ω 36 | 24°24 | 29°32 | 0°49 | 9°37 | 25°10 | 25°52 | 9°39 | 5°28 | 0°D15 | 1°50 | 6° 6 | 28°29 | F 8 |
| S 9 | 17 10 32 | 18°16'21 | 18°51 | 25°40 | 09୍ଦେ46 | 1°31 | 9°32 | 25°16 | 25°53 | 9°38 | 5°29 | 0°16 | 1°47 | 6°12 | 28°30 | S 9 |
| S 10 | 17 14 28 | 19°13'39 | 3 m 5 | 27° 0 | 2° 0 | 2°14 | 9°28 | 25°22 | 25°54 | 9°37 | 5°31 | 0°18 | 1°43 | 6°19 | 28°32 | S 10 |
| M11 | 17 18 25 | 20°10'56 | 17°17 | 28°23 | 3°13 | 2°56 | 9°23 | 25°27 | 25°55 | 9°36 | 5°32 | 0°R18 | 1°40 | 6°26 | 28°33 | M11 |
| T 12 | 17 22 22 | 21° 8'12 | 1 ≏ 25 | 29°49 | 4°27 | 3°39 | 9°19 | 25°32 | 25°56 | 9°35 | 5°34 | 0°18 | 1°37 | 6°32 | 28°34 | T 12 |
| W13 | 17 26 18 | 22° 5'27 | 15°28 | 1 Ⅱ 18 | 5°40 | 4°21 | 9°15 | 25°38 | 25°57 | 9°34 | 5°35 | 0°16 | 1°34 | 6°39 | 28°35 | W13 |
| T 14 | 17 30 15 | 23° 2'41 | 29°23 | 2°50 | 6°54 | 5° 3 | 9°11 | 25°43 | 25°57 | 9°33 | 5°37 | 0°12 | 1°31 | 6°46 | 28°36 | T 14 |
| F 15 | 17 34 11 | 23°59'55 | 13 M 9 | 4°26 | 8° 7 | 5°45 | 9° 8 | 25°48 | 25°58 | 9°32 | 5°38 | 0° 8 | 1°28 | 6°52 | 28°37 | F 15 |
| S 16 | 17 38 8 | 24°57'08 | 26°43 | 6° 4 | 9°21 | 6°27 | 9° 4 | 25°53 | 25°59 | 9°31 | 5°39 | 0° 2 | 1°24 | 6°59 | 28°38 | S 16 |
| S 17 | 17 42 4 | 25°54'21 | 10 ∡ 4 | 7°45 | 10°34 | 7° 9 | 9° 1 | 25°58 | 26° 0 | 9°30 | 5°41 | 29 る 57 | 1°21 | 7° 6 | 28°38 | S 17 |
| M18 | 17 46 1 | 26°51'33 | 23° 9 | 9°29 | 11°47 | 7°51 | 8°58 | 26° 3 | 26° 0 | 9°29 | 5°42 | 29°52 | 1°18 | 7°12 | 28°39 | M18 |
| T 19 | 17 49 57 | 27°48'45 | 5 る 59 | 11°16 | 13° 1 | 8°33 | 8°55 | 26° 8 | 26° 1 | 9°28 | 5°44 | 29°48 | 1°15 | 7°19 | 28°40 | T 19 |
| W20 | 17 53 54 | 28°45'56 | 18°33 | 13° 6 | 14°14 | 9°15 | 8°52 | 26°13 | 26° 1 | 9°27 | 5°45 | 29°46 | 1°12 | 7°26 | 28°40 | W20 |
| T 21 | 17 57 51 | 29°43'07 | 0≈53 | 14°59 | 15°28 | 9°56 | 8°49 | 26°18 | 26° 2 | 9°26 | 5°47 | 29°D46 | 1° 8 | 7°32 | 28°41 | T 21 |
| F 22 | 18 1 47 | 09540'18 | 12°59 | 16°54 | 16°41 | 10°38 | 8°46 | 26°23 | 26° 2 | 9°25 | 5°48 | 29°47 | 1° 5 | 7°39 | 28°42 | F 22 |
| S 23 | 18 5 44 | 1°37'29 | 24°57 | 18°51 | 17°55 | 11°19 | 8°44 | 26°27 | 26° 3 | 9°24 | 5°50 | 29°48 | 1° 2 | 7°46 | 28°42 | S 23 |
| S 24 | 18 9 40 | 2°34'40 | 6) 48 | 20°51 | 19°8 | 12° 0 | 8°42 | 26°32 | 26° 3 | 9°22 | 5°51 | 29°50 | 0°59 | 7°52 | 28°42 | S 24 |
| M25 | 18 13 37 | 3°31'51 | 18°39 | 22°53 | 20°21 | 12°41 | 8°40 | 26°36 | 26° 3 | 9°21 | 5°53 | 29°51 | 0°56 | 7°59 | 28°43 | M25 |
| T 26 | 18 17 33 | 4°29'02 | 0 Υ 32 | 24°57 | 21°35 | 13°23 | 8°38 | 26°41 | 26° 4 | 9°20 | 5°54 | 29°R52 | 0°53 | 8° 6 | 28°43 | T 26 |
| W27 | 18 21 30 | 5°26'13 | 12°34 | 27° 3 | 22°48 | 14° 4 | 8°37 | 26°45 | 26° 4 | 9°19 | 5°56 | 29°52 | 0°49 | 8°12 | 28°43 | W27 |
| T 28 | 18 25 26 | 6°23'25 | 24°48 | 29°10 | 24° 2 | 14°44 | 8°35 | 26°49 | 26° 4 | 9°17 | 5°57 | 29°51 | 0°46 | 8°19 | 28°44 | T 28 |
| F 29 | 18 29 23 | 7°20'37 | 7820 | 19518 | 25°15 | 15°25 | 8°34 | 26°53 | 26° 4 | 9°16 | 5°59 | 29°49 | 0°43 | 8°26 | 28°44 | F 29 |
| S 30 | 18 33 20 | 8917'49 | 20812 | 3 9 528 | 269528 | 16 Y 6 | 8 M .33 | 26 Y 57 | 26 ∺ 4 | 9≈15 | 6 9 0 | 29 3 46 | 0≈40 | 8 ∺ 32 | 28) (44 | S 30 |

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|------|----------|------------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|----------------|----------------|------------------|------|
| S 1 | 18 37 16 | 99515'01 | 3 Ц 27 | 5 9 37 | 279542 | 16 Y 46 | 8°R32 | 27 Y 1 | 26°R 4 | 9°R13 | 6 9 2 | 29°R43 | 0≈37 | 8) (39 | 28°R44 | S 1 |
| M 2 | 18 41 13 | 10°12'14 | 17° 4 | 7°48 | 28°55 | 17°27 | 8 M .31 | 27° 5 | 26 米 4 | 9≈12 | 6° 3 | 29 궁 40 | 0°34 | 8°46 | 28) (44 | M 2 |
| T 3 | 18 45 9 | 11° 9'26 | 195 3 | 9°58 | 0Ω 8 | 18° 7 | 8°31 | 27° 9 | 26° 4 | 9°11 | 6° 5 | 29°38 | 0°30 | 8°52 | 28°44 | T 3 |
| W 4 | 18 49 6 | 12° 6'39 | 15°20 | 12° 7 | 1°22 | 18°47 | 8°30 | 27°13 | 26° 4 | 9° 9 | 6° 6 | 29°37 | 0°27 | 8°59 | 28°44 | W 4 |
| T 5 | 18 53 2 | 13° 3'53 | 29°50 | 14°17 | 2°35 | 19°27 | 8°D30 | 27°16 | 26° 4 | 9°8 | 6° 8 | 29°D36 | 0°24 | 9° 6 | 28°44 | T 5 |
| F 6 | 18 56 59 | 14° 1'06 | $14\Omega 27$ | 16°25 | 3°48 | 20° 7 | 8°30 | 27°20 | 26° 4 | 9° 6 | 6° 9 | 29°37 | 0°21 | 9°12 | 28°43 | F 6 |
| S 7 | 19 0 56 | 14°58'19 | 29° 5 | 18°33 | 5° 1 | 20°46 | 8°30 | 27°23 | 26° 3 | 9° 5 | 6°11 | 29°38 | 0°18 | 9°19 | 28°43 | S 7 |
| S 8 | 19 4 52 | 15°55'32 | 13 m 40 | 20°39 | 6°15 | 21°26 | 8°31 | 27°26 | 26° 3 | 9° 4 | 6°12 | 29°39 | 0°14 | 9°26 | 28°43 | S 8 |
| M 9 | 19 8 49 | 16°52'45 | 28° 5 | 22°45 | 7°28 | 22° 5 | 8°31 | 27°30 | 26° 3 | 9° 2 | 6°14 | 29°39 | 0°11 | 9°32 | 28°42 | M 9 |
| T 10 | 19 12 45 | 17°49'59 | 12 ≏ 17 | 24°49 | 8°41 | 22°45 | 8°32 | 27°33 | 26° 2 | 9° 1 | 6°15 | 29°R40 | 0° 8 | 9°39 | 28°42 | T 10 |
| W11 | 19 16 42 | 18°47'12 | 26°16 | 26°51 | 9°54 | 23°24 | 8°33 | 27°36 | 26° 2 | 8°59 | 6°17 | 29°40 | 0° 5 | 9°46 | 28°42 | W11 |
| T 12 | 19 20 38 | 19°44'25 | 9 M 59 | 28°52 | 11°8 | 24° 3 | 8°34 | 27°39 | 26° 1 | 8°58 | 6°18 | 29°39 | 0° 2 | 9°52 | 28°41 | T 12 |
| F 13 | 19 24 35 | 20°41'39 | 23°26 | $0\Omega51$ | 12°21 | 24°41 | 8°35 | 27°42 | 26° 1 | 8°56 | 6°20 | 29°39 | 29 궁 59 | 9°59 | 28°40 | F 13 |
| S 14 | 19 28 31 | 21°38'53 | 6 ₮ 38 | 2°48 | 13°34 | 25°20 | 8°37 | 27°45 | 26° 0 | 8°55 | 6°21 | 29°38 | 29°55 | 10° 6 | 28°40 | S 14 |
| S 15 | 19 32 28 | 22°36'07 | 19°36 | 4°44 | 14°47 | 25°58 | 8°38 | 27°47 | 25°59 | 8°53 | 6°23 | 29°37 | 29°52 | 10°12 | 28°39 | S 15 |
| M16 | 19 36 25 | 23°33'21 | 2 ට 19 | 6°38 | 16° 0 | 26°37 | 8°40 | 27°50 | 25°59 | 8°51 | 6°24 | 29°36 | 29°49 | 10°19 | 28°38 | M16 |
| T 17 | 19 40 21 | 24°30'36 | 14°50 | 8°30 | 17°13 | 27°15 | 8°42 | 27°52 | 25°58 | 8°50 | 6°26 | 29°35 | 29°46 | 10°26 | 28°37 | T 17 |
| W18 | 19 44 18 | 25°27'52 | 27° 9 | 10°20 | 18°26 | 27°53 | 8°44 | 27°55 | 25°57 | 8°48 | 6°27 | 29°D35 | 29°43 | 10°33 | 28°37 | W18 |
| T 19 | 19 48 14 | 26°25'08 | 9≈18 | 12° 9 | 19°40 | 28°31 | 8°47 | 27°57 | 25°56 | 8°47 | 6°29 | 29°35 | 29°40 | 10°39 | 28°36 | T 19 |
| F 20 | 19 52 11 | 27°22'25 | 21°18 | 13°56 | 20°53 | 29° 8 | 8°49 | 27°59 | 25°55 | 8°45 | 6°30 | 29°36 | 29°36 | 10°46 | 28°35 | F 20 |
| S 21 | 19 56 7 | 28°19'42 | 3 ∺ 12 | 15°41 | 22° 6 | 29°46 | 8°52 | 28° 1 | 25°54 | 8°44 | 6°31 | 29°36 | 29°33 | 10°53 | 28°34 | S 21 |
| S 22 | 20 0 4 | 29°17'00 | 15° 2 | 17°25 | 23°19 | 0 8 23 | 8°55 | 28° 3 | 25°53 | 8°42 | 6°33 | 29°R36 | 29°30 | 10°59 | 28°33 | S 22 |
| M23 | 20 4 0 | 0 Ω 14'19 | 26°52 | 19° 6 | 24°32 | 1° 0 | 8°58 | 28° 5 | 25°52 | 8°40 | 6°34 | 29°36 | 29°27 | 11° 6 | 28°32 | M23 |
| T 24 | 20 7 57 | 1°11'40 | 8 Υ 46 | 20°46 | 25°45 | 1°37 | 9° 1 | 28° 7 | 25°51 | 8°39 | 6°36 | 29°36 | 29°24 | 11°13 | 28°30 | T 24 |
| W25 | 20 11 54 | 2° 9'01 | 20°47 | 22°24 | 26°58 | 2°13 | 9° 4 | 28° 9 | 25°50 | 8°37 | 6°37 | 29°36 | 29°20 | 11°19 | 28°29 | W25 |
| T 26 | 20 15 50 | 3° 6'23 | 3 8 0 | 24° 1 | 28°11 | 2°50 | 9° 8 | 28°10 | 25°49 | 8°35 | 6°38 | 29°D35 | 29°17 | 11°26 | 28°28 | T 26 |
| F 27 | 20 19 47 | 4° 3'47 | 15°29 | 25°36 | 29°24 | 3°26 | 9°12 | 28°12 | 25°48 | 8°34 | 6°40 | 29°36 | 29°14 | 11°33 | 28°27 | F 27 |
| S 28 | 20 23 43 | 5° 1'11 | 28°19 | 27° 9 | 0 m ,37 | 4° 2 | 9°15 | 28°13 | 25°47 | 8°32 | 6°41 | 29°36 | 29°11 | 11°39 | 28°25 | S 28 |
| S 29 | 20 27 40 | 5°58'37 | 11 川 32 | 28°40 | 1°49 | 4°38 | 9°19 | 28°15 | 25°45 | 8°31 | 6°42 | 29°36 | 29° 8 | 11°46 | 28°24 | S 29 |
| M30 | 20 31 36 | 6°56'04 | 25°11 | 0 m p 10 | 3° 2 | 5°13 | 9°24 | 28°16 | 25°44 | 8°29 | 6°44 | 29°37 | 29° 5 | 11°53 | 28°22 | M30 |
| T 31 | 20 35 33 | $7\Omega 53'33$ | 99915 | 1 M 37 | 4 Mp 15 | 5 8 49 | 9 ™ 28 | 28 Υ 17 | 25 米 43 | 8 ≈ 27 | 6 9 45 | 29 궁 38 | 29ਰ 1 | 11 米 59 | 28 米 21 | T 31 |

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| Day | Sid.t | 0 | D | ğ | · | o [™] | 4 | ħ |)f(| ¥ | Р | ₽. | ß | Ç | ę, | Day |
|------|----------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|-------|---------------|----------------|----------------|----------------|----------------|------|
| W 1 | 20 39 29 | 8 Ω 51'02 | 239543 | 3 Mg 4 | 5 m 28 | 6 8 24 | 9 m 33 | 28 Y 18 | 25°R41 | 8°R26 | 69346 | 29°R38 | 28 궁 58 | 12 米 6 | 28°R19 | W 1 |
| T 2 | 20 43 26 | 9°48'33 | 8 Ω 29 | 4°28 | 6°41 | 6°59 | 9°37 | 28°19 | 25) (40 | 8≈24 | 6°48 | 29 궁 38 | 28°55 | 12°13 | 28 米 18 | T 2 |
| F 3 | 20 47 23 | 10°46'04 | 23°27 | 5°50 | 7°54 | 7°33 | 9°42 | 28°20 | 25°39 | 8°22 | 6°49 | 29°37 | 28°52 | 12°19 | 28°16 | F 3 |
| S 4 | 20 51 19 | 11°43'37 | 8 m 29 | 7°11 | 9° 7 | 8° 8 | 9°47 | 28°20 | 25°37 | 8°21 | 6°50 | 29°36 | 28°49 | 12°26 | 28°15 | S 4 |
| S 5 | 20 55 16 | 12°41'10 | 23°26 | 8°30 | 10°19 | 8°42 | 9°52 | 28°21 | 25°35 | 8°19 | 6°52 | 29°35 | 28°46 | 12°33 | 28°13 | S 5 |
| M 6 | 20 59 12 | 13°38'45 | 8 ₾ 10 | 9°46 | 11°32 | 9°15 | 9°58 | 28°21 | 25°34 | 8°18 | 6°53 | 29°33 | 28°42 | 12°39 | 28°11 | M 6 |
| T 7 | 21 3 9 | 14°36'20 | 22°35 | 11° 1 | 12°45 | 9°49 | 10° 3 | 28°22 | 25°32 | 8°16 | 6°54 | 29°32 | 28°39 | 12°46 | 28° 9 | T 7 |
| W 8 | 21 7 5 | 15°33'56 | 6 M 39 | 12°14 | 13°58 | 10°22 | 10° 9 | 28°22 | 25°31 | 8°14 | 6°55 | 29°31 | 28°36 | 12°53 | 28° 7 | W 8 |
| T 9 | 21 11 2 | 16°31'34 | 20°20 | 13°24 | 15°10 | 10°55 | 10°14 | 28°22 | 25°29 | 8°13 | 6°57 | 29°D31 | 28°33 | 13° 0 | 28° 6 | T 9 |
| F 10 | 21 14 58 | 17°29'12 | 3 , ₹39 | 14°32 | 16°23 | 11°28 | 10°20 | 28°R22 | 25°27 | 8°11 | 6°58 | 29°31 | 28°30 | 13° 6 | 28° 4 | F 10 |
| S 11 | 21 18 55 | 18°26'51 | 16°37 | 15°38 | 17°36 | 12° 0 | 10°26 | 28°22 | 25°25 | 8°10 | 6°59 | 29°33 | 28°26 | 13°13 | 28° 2 | S 11 |
| S 12 | 21 22 52 | 19°24'31 | 29°18 | 16°42 | 18°48 | 12°32 | 10°33 | 28°22 | 25°24 | 8° 8 | 7° 0 | 29°34 | 28°23 | 13°20 | 28° 0 | S 12 |
| M13 | 21 26 48 | 20°22'13 | 11 る 45 | 17°43 | 20° 1 | 13° 4 | 10°39 | 28°22 | 25°22 | 8° 6 | 7° 1 | 29°35 | 28°20 | 13°26 | 27°58 | M13 |
| T 14 | 21 30 45 | 21°19'55 | 23°59 | 18°41 | 21°13 | 13°36 | 10°45 | 28°21 | 25°20 | 8° 5 | 7° 2 | 29°R36 | 28°17 | 13°33 | 27°55 | T 14 |
| W15 | 21 34 41 | 22°17'39 | 6≈ 5 | 19°37 | 22°26 | 14° 7 | 10°52 | 28°21 | 25°18 | 8° 3 | 7° 4 | 29°36 | 28°14 | 13°40 | 27°53 | W15 |
| T 16 | 21 38 38 | 23°15'24 | 18° 4 | 20°30 | 23°38 | 14°38 | 10°59 | 28°20 | 25°16 | 8° 2 | 7° 5 | 29°35 | 28°11 | 13°46 | 27°51 | T 16 |
| F 17 | 21 42 34 | 24°13'11 | 29°58 | 21°19 | 24°51 | 15° 8 | 11° 6 | 28°20 | 25°14 | 8° 0 | 7° 6 | 29°33 | 28° 7 | 13°53 | 27°49 | F 17 |
| S 18 | 21 46 31 | 25°10'59 | 11 米 49 | 22° 6 | 26° 3 | 15°39 | 11°13 | 28°19 | 25°12 | 7°59 | 7° 7 | 29°29 | 28° 4 | 14° 0 | 27°47 | S 18 |
| S 19 | 21 50 27 | 26° 8'48 | 23°39 | 22°48 | 27°16 | 16° 9 | 11°20 | 28°18 | 25°10 | 7°57 | 7° 8 | 29°25 | 28° 1 | 14° 6 | 27°45 | S 19 |
| M20 | 21 54 24 | 27° 6'39 | 5 Ƴ 30 | 23°27 | 28°28 | 16°38 | 11°27 | 28°17 | 25° 8 | 7°55 | 7° 9 | 29°20 | 27°58 | 14°13 | 27°42 | M20 |
| T 21 | 21 58 21 | 28° 4'32 | 17°25 | 24° 3 | 29°40 | 17° 7 | 11°35 | 28°16 | 25° 6 | 7°54 | 7°10 | 29°15 | 27°55 | 14°20 | 27°40 | T 21 |
| W22 | 22 2 17 | 29° 2'26 | 29°28 | 24°34 | 0 ჲ 53 | 17°36 | 11°42 | 28°15 | 25° 4 | 7°52 | 7°11 | 29°12 | 27°51 | 14°26 | 27°38 | W22 |
| T 23 | 22 6 14 | 0 Mp 0'23 | 11840 | 25° 0 | 2° 5 | 18° 5 | 11°50 | 28°13 | 25° 2 | 7°51 | 7°12 | 29° 9 | 27°48 | 14°33 | 27°35 | T 23 |
| F 24 | 22 10 10 | 0°58'21 | 24° 7 | 25°22 | 3°17 | 18°33 | 11°58 | 28°12 | 25° 0 | 7°49 | 7°13 | 29° 7 | 27°45 | 14°40 | 27°33 | F 24 |
| S 25 | 22 14 7 | 1°56'21 | 6耳52 | 25°40 | 4°29 | 19° 0 | 12° 6 | 28°10 | 24°58 | 7°48 | 7°14 | 29°D 7 | 27°42 | 14°46 | 27°30 | S 25 |
| S 26 | 22 18 3 | 2°54'23 | 19°59 | 25°51 | 5°42 | 19°28 | 12°14 | 28° 9 | 24°56 | 7°47 | 7°15 | 29° 8 | 27°39 | 14°53 | 27°28 | S 26 |
| M27 | 22 22 0 | 3°52'27 | 3930 | 25°58 | 6°54 | 19°54 | 12°22 | 28° 7 | 24°53 | 7°45 | 7°16 | 29°10 | 27°36 | 15° 0 | 27°25 | M27 |
| T 28 | 22 25 56 | 4°50'34 | 17°29 | 25°R58 | 8° 6 | 20°21 | 12°30 | 28° 5 | 24°51 | 7°44 | 7°17 | 29°11 | 27°32 | 15° 7 | 27°23 | T 28 |
| W29 | 22 29 53 | 5°48'41 | 1 Ω 54 | 25°53 | 9°18 | 20°47 | 12°39 | 28° 3 | 24°49 | 7°42 | 7°18 | 29°R11 | 27°29 | 15°13 | 27°20 | W29 |
| T 30 | 22 33 50 | 6°46'51 | 16°43 | 25°42 | 10°30 | 21°12 | 12°47 | 28° 1 | 24°47 | 7°41 | 7°18 | 29°10 | 27°26 | 15°20 | 27°18 | T 30 |
| F 31 | 22 37 46 | 7 m 45'03 | 1 m 50 | 25 m 24 | 11 ≏ 42 | 21838 | 12 M 56 | 27 Y 59 | 24) (45 | 7≈40 | 79 519 | 29중 7 | 27 중 23 | 15 ¥ 27 | 27 米 15 | F 31 |

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|--------------|----------------------|----------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|------------------|--------------|--------------|-----------------|----------------|------------------|----------------|--------------|
| S 1 | 22 41 43 | 8 m) 43'16 | 17 m) 5 | 24°R59 | 12 ≏ 54 | 22 8 2 | 13 M 5 | 27°R57 | 24°R42 | 7°R38 | 7920 | 29°R 3 | 27 る 20 | 15) 33 | 27°R13 | S 1 |
| S 2 | 22 45 39 | 9°41'31 | 2 ₾ 18 | 24 Mp 29 | 14° 6 | 22°26 | 13°14 | 27 Y 55 | 24) (40 | 7≈37 | 7°21 | 28 궁 57 | 27°17 | 15°40 | 27 ∺ 10 | S 2 |
| M 3 | 22 49 36 | 10°39'48 | 17°19 | 23°52 | 15°18 | 22°50 | 13°23 | 27°52 | 24°38 | 7°36 | 7°22 | 28°51 | 27°13 | 15°47 | 27° 7 | M 3 |
| T 4 W 5 | 22 53 32 22 57 29 | 11°38'06 12°36'26 | 2M 0 16°15 | 23° 9 22°21 | 16°30 17°42 | 23°13 23°36 | 13°32 13°41 | 27°50 27°47 | 24°35 24°33 | 7°34 7°33 | 7°23 7°23 | 28°45 28°41 | 27°10 27° 7 | 15°53 16° 0 | 27° 5 27° 2 | T 4 W 5 |
| T 6 | 22 37 29 23 1 25 | 12 30 20 13°34'47 | 0 13 1 7 1 | 21°28 | 17 42 18°54 | 23°58 | 13°50 | 27°47 | 24°31 | 7°32 | 7°24 | 28°38 | 27° 4 | 16° 7 | 26°59 | W 3 |
| F 7 | 23 5 22 | 14°33'11 | 13°20 | 20°31 | 20° 5 | 24°20 | 14° 0 | 27°42 | 24°28 | 7°31 | 7°25 | 28°D37 | 27° 1 | 16°13 | 26°56 | F 7 |
| S 8 | 23 9 19 | 15°31'35 | 26°14 | 19°31 | 21°17 | 24°41 | 14° 9 | 27°39 | 24°26 | 7°29 | 7°25 | 28°38 | 26°57 | 16°20 | 26°54 | S 8 |
| S 9 | 23 13 15 | 16°30'02 | 8 국 48 | 18°29 | 22°29 | 25° 1 | 14°19 | 27°36 | 24°24 | 7°28 | 7°26 | 28°39 | 26°54 | 16°27 | 26°51 | S 9 |
| M10 | 23 17 12 | 17°28'30 | 21° 5 | 17°27 | 23°40 | 25°21 | 14°29 | 27°33 | 24°21 | 7°27 | 7°27 | 28°40 | 26°51 | 16°34 | 26°48 | M10 |
| T 11 | 23 21 8 | 18°26'59 | 3≈10 | 16°26 | 24°52 | 25°41 | 14°39 | 27°30 | 24°19 | 7°26 | 7°27 | 28°R40 | 26°48 | 16°40 | 26°46 | T 11 |
| W12 | 23 25 5 | 19°25'30 | 15° 6 | 15°27 | 26° 4 | 25°59 | 14°49 | 27°27 | 24°16 | 7°25 | 7°28 | 28°39 | 26°45 | 16°47 | 26°43 26°40 | W12 |
| T 13 F 14 | 23 29 1 23 32 58 | 20°24'03 21°22'38 | 26°58 8) 48 | 14°33 13°44 | 27°15 28°27 | 26°18 26°35 | 14°59 15° 9 | 27°24 27°20 | 24°14 24°12 | 7°24 7°23 | 7°29 7°29 | 28°35 28°29 | 26°42 26°38 | 16°54 17° 0 | 26°40 26°37 | T 13 F 14 |
| S 15 | 23 36 54 | 21°22'36 22°21'15 | 20°39 | 13° 1 | 29°38 | 26°52 | 15°19 | 27°17 | 24° 9 | 7°22 | 7°30 | 28°20 | 26°35 | 17° 7 | 26°34 | S 15 |
| S 16 | 23 40 51 | 23°19'53 | 2 Υ 31 | 12°26 | 0 M .49 | 27° 9 | 15°29 | 27°13 | 24° 7 | 7°21 | 7°30 | 28°10 | 26°32 | 17°14 | 26°32 | S 16 |
| M17 | 23 44 48 | 24°18'34 | 14°27 | 12° 0 | 2° 1 | 27°25 | 15°40 | 27°10 | 24° 4 | 7°20 | 7°31 | 27°59 | 26°29 | 17°20 | 26°29 | M17 |
| T 18 | 23 48 44 | 25°17'17 | 26°29 | 11°44 | 3°12 | 27°40 | 15°50 | 27° 6 | 24° 2 | 7°19 | 7°31 | 27°49 | 26°26 | 17°27 | 26°26 | T 18 |
| W19 | 23 52 41 | 26°16'02 | 8 8 37 | 11°D37 | 4°23 | 27°54 | 16° 1 | 27° 2 | 24° 0 | 7°18 | 7°32 | 27°39 | 26°23 | 17°34 | 26°23 | W19 |
| T 20 | 23 56 37 | 27°14'49 | 20°54 | 11°40 | 5°34 | 28° 8 | 16°12 | 26°59 | 23°57 | 7°17 | 7°32 | 27°31 | 26°19 | 17°40 | 26°20 | T 20 |
| F 21 S 22 | 0 0 34 0 4 30 | 28°13'38 | 3 Ⅱ 23 16° 6 | 11°53 12°16 | 6°46 7°57 | 28°21 28°34 | 16°22 16°33 | 26°55 | 23°55 23°52 | 7°16 7°15 | 7°32 7°33 | 27°26 27°23 | 26°16 26°13 | 17°47 17°54 | 26°18 26°15 | F 21 S 22 |
| | | 29°12'30 | | | | | | 26°51 | | | | | - | | | |
| S 23 | 0 8 27 | 0 ჲ 11'24 | 29° 8 | 12°48 | 9° 8 | 28°45 | 16°44 | 26°47 | 23°50 | 7°14 | 7°33 | 27°D22 | 26°10 | 18° 0 | 26°12 | S 23 |
| M24 | 0 12 23 | 1°10'20 | 12931 | 13°30 | 10°19 | 28°56 | 16°55 | 26°43 | 23°48 | 7°13 | 7°34 | 27°23 | 26° 7 | 18° 7 | 26° 9 | M24 |
| T 25 W26 | 0 16 20 0 20 17 | 2° 9'19 | 26°19 10 Ω 32 | 14°19 15°17 | 11°30 12°40 | 29° 6 29°16 | 17° 6 17°18 | 26°39 26°35 | 23°45 23°43 | 7°13 7°12 | 7°34 7°34 | 27°R23 27°22 | 26° 3 26° 0 | 18°14 18°21 | 26° 6 26° 4 | T 25 W26 |
| T 27 | 0 20 17 | 3° 8'20 4° 7'23 | 25°10 | 16°22 | 12°40 13°51 | 29°16 29°24 | 17°18 | 26°33 | 23°43 23°40 | 7°12 7°11 | 7°34 | 27°22 27°20 | 25°57 | 18°27 | 26° 4 | T 27 |
| F 28 | 0 24 13 | 5° 6'29 | 10 mg 8 | 17°34 | 15° 2 | 29°32 | 17°40 | 26°26 | 23°38 | 7°10 | 7°35 | 27°14 | 25°54 | 18°34 | 25°58 | F 28 |
| S 29 | 0 32 6 | 6° 5'36 | 25°20 | 18°51 | 16°13 | 29°39 | 17°52 | 26°22 | 23°36 | 7°10 | 7°35 | 27° 7 | 25°51 | 18°41 | 25°55 | S 29 |
| S 30 | 0 36 3 | 7 ♀ 4'46 | 10 ≙ 35 | 20 m 13 | 17 M 23 | 29845 | 18 M 3 | 26 Y 17 | 23 米 33 | 7≈ 9 | 7935 | 26 ප 57 | 25 ح 48 | 18) (47 | 25 米 53 | S 30 |

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| M 1 | 0 39 59 | 8 ₾ 3'58 | 25 ≙ 42 | 21 Mp 40 | 18 M .34 | 29 8 51 | 18 M .15 | 26°R13 | 23°R31 | 7°R 9 | 7935 | 26°R46 | 25 궁 44 | 18 米 54 | 25°R50 | M 1 |
| T 2 | 0 43 56 | 9° 3'12 | 10 M J31 | 23°10 | 19°45 | 29°55 | 18°26 | 26 Y 9 | 23 米 29 | 7≈ 8 | 7°35 | 26 궁 36 | 25°41 | 19° 1 | 25) (47 | T 2 |
| W 3 | 0 47 52 | 10° 2'28 | 24°55 | 24°43 | 20°55 | 29°59 | 18°38 | 26° 4 | 23°26 | 7° 7 | 7°35 | 26°28 | 25°38 | 19° 7 | 25°44 | W 3 |
| T 4 | 0 51 49 | 11° 1'45 | 8 才 50 | 26°19 | 22° 6 | 0 Π 2 | 18°50 | 26° 0 | 23°24 | 7° 7 | 7°36 | 26°21 | 25°35 | 19°14 | 25°42 | T 4 |
| F 5 | 0 55 45 | 12° 1'05 | 22°14 | 27°58 | 23°16 | 0° 4 | 19° 2 | 25°55 | 23°22 | 7° 7 | 7°36 | 26°18 | 25°32 | 19°21 | 25°39 | F 5 |
| S 6 | 0 59 42 | 13° 0'26 | 5 ਰ 11 | 29°37 | 24°26 | 0° 5 | 19°14 | 25°50 | 23°20 | 7° 6 | 7°36 | 26°16 | 25°28 | 19°28 | 25°36 | S 6 |
| S 7 | 1 3 39 | 13°59'49 | 17°45 | 1 ≏ 19 | 25°36 | 0°R 5 | 19°26 | 25°46 | 23°17 | 7° 6 | 7°36 | 26°D16 | 25°25 | 19°34 | 25°34 | S 7 |
| M 8 | 1 7 35 | 14°59'14 | 29°59 | 3° 1 | 26°46 | 0° 4 | 19°38 | 25°41 | 23°15 | 7° 5 | 7°R36 | 26°R16 | 25°22 | 19°41 | 25°31 | M 8 |
| T 9 | 1 11 32 | 15°58'40 | 12≈ 1 | 4°43 | 27°57 | 0° 3 | 19°50 | 25°36 | 23°13 | 7° 5 | 7°36 | 26°15 | 25°19 | 19°48 | 25°29 | T 9 |
| W10 | 1 15 28 | 16°58'09 | 23°54 | 6°27 | 29° 6 | 0° 0 | 20° 2 | 25°32 | 23°11 | 7° 5 | 7°36 | 26°12 | 25°16 | 19°54 | 25°26 | W10 |
| T 11 | 1 19 25 | 17°57'39 | 5) (44 | 8°10 | 0 才 16 | 29 8 57 | 20°14 | 25°27 | 23° 9 | 7° 4 | 7°36 | 26° 7 | 25°13 | 20° 1 | 25°23 | T 11 |
| F 12 | 1 23 21 | 18°57'11 | 17°33 | 9°54 | 1°26 | 29°53 | 20°26 | 25°22 | 23° 7 | 7° 4 | 7°36 | 25°58 | 25° 9 | 20° 8 | 25°21 | F 12 |
| S 13 | 1 27 18 | 19°56'45 | 29°26 | 11°38 | 2°36 | 29°48 | 20°39 | 25°17 | 23° 5 | 7° 4 | 7°35 | 25°47 | 25° 6 | 20°14 | 25°18 | S 13 |
| S 14 | 1 31 14 | 20°56'21 | 11 Y 23 | 13°21 | 3°45 | 29°42 | 20°51 | 25°13 | 23° 3 | 7° 4 | 7°35 | 25°34 | 25° 3 | 20°21 | 25°16 | S 14 |
| M15 | 1 35 11 | 21°55'58 | 23°28 | 15° 4 | 4°55 | 29°35 | 21° 3 | 25° 8 | 23° 1 | 7° 4 | 7°35 | 25°20 | 25° 0 | 20°28 | 25°14 | M15 |
| T 16 | 1 39 8 | 22°55'38 | 5 8 39 | 16°47 | 6° 4 | 29°27 | 21°16 | 25° 3 | 22°59 | 7° 3 | 7°35 | 25° 5 | 24°57 | 20°34 | 25°11 | T 16 |
| W17 | 1 43 4 | 23°55'20 | 17°59 | 18°30 | 7°14 | 29°18 | 21°28 | 24°58 | 22°57 | 7° 3 | 7°35 | 24°52 | 24°54 | 20°41 | 25° 9 | W17 |
| T 18 | 1 47 1 | 24°55'04 | 0Ⅱ28 | 20°12 | 8°23 | 29° 9 | 21°41 | 24°53 | 22°55 | 7° 3 | 7°34 | 24°42 | 24°50 | 20°48 | 25° 6 | T 18 |
| F 19 | 1 50 57 | 25°54'51 | 13° 8 | 21°54 | 9°32 | 28°58 | 21°54 | 24°49 | 22°53 | 7°D 3 | 7°34 | 24°34 | 24°47 | 20°55 | 25° 4 | F 19 |
| S 20 | 1 54 54 | 26°54'39 | 25°59 | 23°35 | 10°41 | 28°47 | 22° 6 | 24°44 | 22°51 | 7° 3 | 7°34 | 24°29 | 24°44 | 21° 1 | 25° 2 | S 20 |
| S 21 | 1 58 50 | 27°54'30 | 995 4 | 25°15 | 11°50 | 28°35 | 22°19 | 24°39 | 22°49 | 7° 3 | 7°34 | 24°27 | 24°41 | 21° 8 | 25° 0 | S 21 |
| M22 | 2 2 47 | 28°54'23 | 22°25 | 26°56 | 12°59 | 28°22 | 22°32 | 24°34 | 22°47 | 7° 3 | 7°33 | 24°27 | 24°38 | 21°15 | 24°57 | M22 |
| T 23 | 2 6 43 | 29°54'18 | 6Ω 5 | 28°35 | 14° 8 | 28° 9 | 22°44 | 24°29 | 22°45 | 7° 4 | 7°33 | 24°27 | 24°34 | 21°21 | 24°55 | T 23 |
| W24 | 2 10 40 | 0 M 54'16 | 20° 5 | 0 M _15 | 15°16 | 27°54 | 22°57 | 24°25 | 22°44 | 7° 4 | 7°33 | 24°26 | 24°31 | 21°28 | 24°53 | W24 |
| T 25 | 2 14 37 | 1°54'15 | 4 Mp 25 | 1°53 | 16°25 | 27°39 | 23°10 | 24°20 | 22°42 | 7° 4 | 7°32 | 24°23 | 24°28 | 21°35 | 24°51 | T 25 |
| F 26 | 2 18 33 | 2°54'17 | 19° 5 | 3°31 | 17°33 | 27°23 | 23°23 | 24°15 | 22°40 | 7° 4 | 7°32 | 24°17 | 24°25 | 21°41 | 24°49 | F 26 |
| S 27 | 2 22 30 | 3°54'21 | 3 ≙ 57 | 5° 9 | 18°41 | 27° 6 | 23°36 | 24°10 | 22°39 | 7° 4 | 7°31 | 24° 9 | 24°22 | 21°48 | 24°47 | S 27 |
| S 28 | 2 26 26 | 4°54'27 | 18°56 | 6°46 | 19°50 | 26°49 | 23°49 | 24° 6 | 22°37 | 7° 5 | 7°31 | 23°58 | 24°19 | 21°55 | 24°45 | S 28 |
| M29 | 2 30 23 | 5°54'35 | 3 M .52 | 8°23 | 20°58 | 26°31 | 24° 2 | 24° 1 | 22°35 | 7° 5 | 7°30 | 23°46 | 24°15 | 22° 2 | 24°43 | M29 |
| T 30 | 2 34 19 | 6°54'45 | 18°35 | 10° 0 | 22° 5 | 26°12 | 24°15 | 23°56 | 22°34 | 7° 5 | 7°30 | 23°35 | 24°12 | 22° 8 | 24°41 | T 30 |
| W31 | 2 38 16 | 7 M 54'56 | 2 ₹ 58 | 11 M 35 | 23 × 13 | 25 8 53 | 24 M 28 | 23 Y 52 | 22) 32 | 7≈ 6 | 7 9 529 | 23 る 25 | 24궁 9 | 22 米 15 | 24 米 39 | W31 |

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|------|---------|-------------------|----------------|-----------------|-----------------|----------------|--------------|----------------|----------------|---------------|---------------|----------------|----------------|----------------|-----------------|------|
| T 1 | 2 42 12 | 8ML55'10 | 16 ₹ 54 | 13 M .11 | 24 × 121 | 25°R33 | 24M41 | 23°R47 | 22°R31 | 7≈ 6 | 7°R29 | 23°R18 | 24궁 6 | 22) 22 | 24°R37 | T 1 |
| F 2 | 2 46 9 | 9°55'25 | 0 궁 23 | 14°46 | 25°28 | 25 8 13 | 24°54 | 23 Y 43 | 22) 30 | 7° 7 | 79 528 | 23 궁 14 | 24° 3 | 22°28 | 24) (36 | F 2 |
| S 3 | 2 50 6 | 10°55'41 | 13°25 | 16°21 | 26°36 | 24°53 | 25° 8 | 23°38 | 22°28 | 7° 7 | 7°28 | 23°12 | 24° 0 | 22°35 | 24°34 | S 3 |
| S 4 | 2 54 2 | 11°55'59 | 26° 2 | 17°55 | 27°43 | 24°32 | 25°21 | 23°34 | 22°27 | 7° 8 | 7°27 | 23°D11 | 23°56 | 22°42 | 24°32 | S 4 |
| M 5 | 2 57 59 | 12°56'19 | 8 ≈ 19 | 19°29 | 28°50 | 24°10 | 25°34 | 23°29 | 22°26 | 7° 8 | 7°27 | 23°R12 | 23°53 | 22°49 | 24°31 | M 5 |
| T 6 | 3 1 55 | 13°56'40 | 20°22 | 21° 3 | 29°56 | 23°49 | 25°47 | 23°25 | 22°24 | 7° 9 | 7°26 | 23°11 | 23°50 | 22°55 | 24°29 | T 6 |
| W 7 | 3 5 52 | 14°57'02 | 2) 16 | 22°36 | 1る3 | 23°27 | 26° 0 | 23°21 | 22°23 | 7°10 | 7°25 | 23°10 | 23°47 | 23° 2 | 24°27 | W 7 |
| T 8 | 3 9 48 | 15°57'26 | 14° 6 | 24° 9 | 2° 9 | 23° 5 | 26°14 | 23°16 | 22°22 | 7°10 | 7°25 | 23° 6 | 23°44 | 23° 9 | 24°26 | T 8 |
| F 9 | 3 13 45 | 16°57'51 | 25°57 | 25°42 | 3°16 | 22°43 | 26°27 | 23°12 | 22°21 | 7°11 | 7°24 | 22°59 | 23°40 | 23°15 | 24°25 | F 9 |
| S 10 | 3 17 41 | 17°58'17 | 7 Ƴ 52 | 27°15 | 4°22 | 22°21 | 26°40 | 23° 8 | 22°20 | 7°12 | 7°23 | 22°50 | 23°37 | 23°22 | 24°23 | S 10 |
| S 11 | 3 21 38 | 18°58'45 | 19°56 | 28°47 | 5°27 | 21°59 | 26°54 | 23° 4 | 22°19 | 7°12 | 7°22 | 22°40 | 23°34 | 23°29 | 24°22 | S 11 |
| M12 | 3 25 35 | 19°59'15 | 2 8 9 | 0 才 19 | 6°33 | 21°37 | 27° 7 | 23° 0 | 22°18 | 7°13 | 7°22 | 22°28 | 23°31 | 23°35 | 24°21 | M12 |
| T 13 | 3 29 31 | 20°59'46 | 14°33 | 1°51 | 7°38 | 21°15 | 27°20 | 22°56 | 22°17 | 7°14 | 7°21 | 22°16 | 23°28 | 23°42 | 24°19 | T 13 |
| W14 | 3 33 28 | 22° 0'19 | 27° 9 | 3°22 | 8°43 | 20°53 | 27°34 | 22°52 | 22°16 | 7°15 | 7°20 | 22° 5 | 23°25 | 23°49 | 24°18 | W14 |
| T 15 | 3 37 24 | 23° 0'53 | 9 耳 56 | 4°53 | 9°48 | 20°31 | 27°47 | 22°48 | 22°15 | 7°16 | 7°19 | 21°56 | 23°21 | 23°56 | 24°17 | T 15 |
| F 16 | 3 41 21 | 24° 1'28 | 22°54 | 6°24 | 10°53 | 20° 9 | 28° 0 | 22°45 | 22°14 | 7°17 | 7°18 | 21°49 | 23°18 | 24° 2 | 24°16 | F 16 |
| S 17 | 3 45 17 | 25° 2'06 | 6 9 3 | 7°55 | 11°57 | 19°48 | 28°14 | 22°41 | 22°14 | 7°18 | 7°17 | 21°46 | 23°15 | 24° 9 | 24°15 | S 17 |
| S 18 | 3 49 14 | 26° 2'45 | 19°24 | 9°25 | 13° 1 | 19°27 | 28°27 | 22°37 | 22°13 | 7°19 | 7°17 | 21°D45 | 23°12 | 24°16 | 24°14 | S 18 |
| M19 | 3 53 10 | 27° 3'25 | 2Ω 55 | 10°56 | 14° 5 | 19° 6 | 28°41 | 22°34 | 22°12 | 7°20 | 7°16 | 21°45 | 23° 9 | 24°22 | 24°13 | M19 |
| T 20 | 3 57 7 | 28° 4'08 | 16°39 | 12°25 | 15° 9 | 18°46 | 28°54 | 22°30 | 22°12 | 7°21 | 7°15 | 21°46 | 23° 6 | 24°29 | 24°12 | T 20 |
| W21 | 4 1 4 | 29° 4'51 | 0 m y35 | 13°55 | 16°12 | 18°26 | 29° 8 | 22°27 | 22°11 | 7°22 | 7°14 | 21°R46 | 23° 2 | 24°36 | 24°11 | W21 |
| T 22 | 4 5 0 | 0 ∡ 5'37 | 14°43 | 15°24 | 17°15 | 18° 7 | 29°21 | 22°24 | 22°11 | 7°23 | 7°13 | 21°45 | 22°59 | 24°43 | 24°10 | T 22 |
| F 23 | 4 8 57 | 1° 6'24 | 29° 3 | 16°53 | 18°18 | 17°48 | 29°34 | 22°20 | 22°10 | 7°24 | 7°12 | 21°42 | 22°56 | 24°49 | 24°10 | F 23 |
| S 24 | 4 12 53 | 2° 7'12 | 13 ≏ 31 | 18°21 | 19°20 | 17°30 | 29°48 | 22°17 | 22°10 | 7°25 | 7°11 | 21°37 | 22°53 | 24°56 | 24° 9 | S 24 |
| S 25 | 4 16 50 | 3° 8'02 | 28° 3 | 19°48 | 20°22 | 17°12 | 0 √ 1 | 22°14 | 22°10 | 7°26 | 7°10 | 21°30 | 22°50 | 25° 3 | 24° 9 | S 25 |
| M26 | 4 20 46 | 4° 8'54 | 12 M 33 | 21°15 | 21°24 | 16°55 | 0°15 | 22°11 | 22° 9 | 7°28 | 7° 9 | 21°22 | 22°46 | 25° 9 | 24° 8 | M26 |
| T 27 | 4 24 43 | 5° 9'47 | 26°54 | 22°42 | 22°25 | 16°39 | 0°28 | 22° 8 | 22° 9 | 7°29 | 7° 8 | 21°14 | 22°43 | 25°16 | 24° 8 | T 27 |
| W28 | 4 28 39 | 6°10'41 | 11 × 0 | 24° 7 | 23°26 | 16°23 | 0°42 | 22° 6 | 22° 9 | 7°30 | 7° 7 | 21° 7 | 22°40 | 25°23 | 24° 7 | W28 |
| T 29 | 4 32 36 | 7°11'36 | 24°46 | 25°32 | 24°26 | 16° 8 | 0°55 | 22° 3 | 22° 9 | 7°32 | 7° 6 | 21° 2 | 22°37 | 25°29 | 24° 7 | T 29 |
| F 30 | 4 36 33 | 8 . ₹12'32 | 8 궁 10 | 26 ₹ 55 | 25 る 27 | 15 8 54 | 1 √ 8 | 22 Y 0 | 22 米 9 | 7 ≈ 33 | 7 9 5 | 20 궁 59 | 22 る 34 | 25) 36 | 24) 6 | F 30 |

Delta T = 26.71 sec

Greg. Calendar

| DECEMBER 1674 GC | 00:00 UT |
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| DECEMBER 10/4 OC | 00.00 01 |

| Day | Sid.t | \odot | 2) | · | Ŷ | o' | 4 | η | ∦, | # | E | 8.s | 83 | ţ | δ | Day |
|------|---------|-------------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|------|---------------|----------------|----------------|-----------------|----------------|------|
| S 1 | 4 40 29 | 9 % 13'30 | 21 궁 11 | 28 × 17 | 26 궁 26 | 15°R40 | 1 ₹ 22 | 21°R58 | 22°D 9 | 7≈34 | 7°R 4 | 20°D59 | 22 ප 31 | 25) (43 | 24°R 6 | S 1 |
| S 2 | 4 44 26 | 10°14'27 | 3≈50 | 29°38 | 27°26 | 15 8 28 | 1°35 | 21 Y 55 | 22 米 9 | 7°36 | 7 95 3 | 20 ට 59 | 22°27 | 25°50 | 24) 6 | S 2 |
| M 3 | 4 48 22 | 11°15'26 | 16°10 | 0 궁 56 | 28°24 | 15°16 | 1°48 | 21°53 | 22° 9 | 7°37 | 7° 2 | 21° 1 | 22°24 | 25°56 | 24° 6 | M 3 |
| T 4 | 4 52 19 | 12°16'25 | 28°16 | 2°13 | 29°23 | 15° 5 | 2° 2 | 21°51 | 22° 9 | 7°39 | 7° 1 | 21° 3 | 22°21 | 26° 3 | 24° 6 | T 4 |
| W 5 | 4 56 15 | 13°17'25 | 10 米 12 | 3°28 | 0≈21 | 14°54 | 2°15 | 21°49 | 22° 9 | 7°40 | 6°59 | 21°R 3 | 22°18 | 26°10 | 24°D 6 | W 5 |
| T 6 | 5 0 12 | 14°18'25 | 22° 3 | 4°39 | 1°18 | 14°45 | 2°28 | 21°47 | 22° 9 | 7°42 | 6°58 | 21° 3 | 22°15 | 26°16 | 24° 6 | T 6 |
| F 7 | 5 4 8 | 15°19'26 | 3 Ƴ 55 | 5°48 | 2°15 | 14°36 | 2°42 | 21°45 | 22°10 | 7°43 | 6°57 | 21° 1 | 22°12 | 26°23 | 24° 6 | F 7 |
| S 8 | 5 8 5 | 16°20'28 | 15°52 | 6°52 | 3°11 | 14°28 | 2°55 | 21°43 | 22°10 | 7°45 | 6°56 | 20°58 | 22° 8 | 26°30 | 24° 6 | S 8 |
| S 9 | 5 12 2 | 17°21'30 | 27°59 | 7°53 | 4° 7 | 14°21 | 3° 8 | 21°42 | 22°10 | 7°46 | 6°55 | 20°53 | 22° 5 | 26°37 | 24° 6 | S 9 |
| M10 | 5 15 58 | 18°22'33 | 10818 | 8°48 | 5° 2 | 14°15 | 3°22 | 21°40 | 22°11 | 7°48 | 6°54 | 20°47 | 22° 2 | 26°43 | 24° 6 | M10 |
| T 11 | 5 19 55 | 19°23'36 | 22°52 | 9°38 | 5°56 | 14°10 | 3°35 | 21°39 | 22°11 | 7°50 | 6°53 | 20°41 | 21°59 | 26°50 | 24° 7 | T 11 |
| W12 | 5 23 51 | 20°24'40 | 5 Ⅱ 42 | 10°22 | 6°50 | 14° 5 | 3°48 | 21°37 | 22°12 | 7°51 | 6°51 | 20°36 | 21°56 | 26°57 | 24° 7 | W12 |
| T 13 | 5 27 48 | 21°25'44 | 18°48 | 10°58 | 7°43 | 14° 1 | 4° 1 | 21°36 | 22°12 | 7°53 | 6°50 | 20°32 | 21°52 | 27° 3 | 24° 8 | T 13 |
| F 14 | 5 31 44 | 22°26'49 | 2 9 9 | 11°26 | 8°35 | 13°59 | 4°14 | 21°35 | 22°13 | 7°55 | 6°49 | 20°29 | 21°49 | 27°10 | 24° 8 | F 14 |
| S 15 | 5 35 41 | 23°27'55 | 15°44 | 11°45 | 9°27 | 13°57 | 4°27 | 21°34 | 22°14 | 7°56 | 6°48 | 20°D28 | 21°46 | 27°17 | 24° 9 | S 15 |
| S 16 | 5 39 38 | 24°29'01 | 29°29 | 11°R55 | 10°18 | 13°55 | 4°40 | 21°33 | 22°14 | 7°58 | 6°47 | 20°28 | 21°43 | 27°24 | 24° 9 | S 16 |
| M17 | 5 43 34 | 25°30'08 | 13 Ω 24 | 11°53 | 11° 8 | 13°D55 | 4°53 | 21°32 | 22°15 | 8° 0 | 6°45 | 20°29 | 21°40 | 27°30 | 24°10 | M17 |
| T 18 | 5 47 31 | 26°31'15 | 27°26 | 11°41 | 11°57 | 13°55 | 5° 6 | 21°31 | 22°16 | 8° 2 | 6°44 | 20°31 | 21°37 | 27°37 | 24°11 | T 18 |
| W19 | 5 51 27 | 27°32'23 | 11 m 32 | 11°16 | 12°46 | 13°56 | 5°19 | 21°31 | 22°17 | 8° 4 | 6°43 | 20°32 | 21°33 | 27°44 | 24°11 | W19 |
| T 20 | 5 55 24 | 28°33'32 | 25°42 | 10°40 | 13°33 | 13°58 | 5°32 | 21°30 | 22°18 | 8° 5 | 6°42 | 20°R33 | 21°30 | 27°50 | 24°12 | T 20 |
| F 21 | 5 59 20 | 29°34'41 | 9 ≙ 53 | 9°52 | 14°20 | 14° 0 | 5°45 | 21°30 | 22°19 | 8° 7 | 6°40 | 20°33 | 21°27 | 27°57 | 24°13 | F 21 |
| S 22 | 6 3 17 | 0 궁 35'51 | 24° 2 | 8°54 | 15° 6 | 14° 4 | 5°58 | 21°30 | 22°20 | 8° 9 | 6°39 | 20°31 | 21°24 | 28° 4 | 24°14 | S 22 |
| S 23 | 6 7 13 | 1°37'02 | 8 M 8 | 7°47 | 15°50 | 14° 8 | 6°11 | 21°29 | 22°21 | 8°11 | 6°38 | 20°29 | 21°21 | 28°11 | 24°15 | S 23 |
| M24 | 6 11 10 | 2°38'13 | 22° 9 | 6°32 | 16°34 | 14°13 | 6°24 | 21°D29 | 22°22 | 8°13 | 6°37 | 20°27 | 21°18 | 28°17 | 24°16 | M24 |
| T 25 | 6 15 7 | 3°39'24 | 6 ₹ 0 | 5°13 | 17°17 | 14°18 | 6°36 | 21°29 | 22°23 | 8°15 | 6°36 | 20°24 | 21°14 | 28°24 | 24°17 | T 25 |
| W26 | 6 19 3 | 4°40'36 | 1 <u>9</u> °39 | 3°51 | 17°58 | 14°24 | 6°49 | 21°30 | 22°25 | 8°17 | 6°34 | 20°22 | 21°11 | 28°31 | 24°18 | W26 |
| T 27 | 6 23 0 | 5°41'48 | 3 る 3 | 2°30 | 18°38 | 14°31 | 7° 2 | 21°30 | 22°26 | 8°19 | 6°33 | 20°21 | 21° 8 | 28°37 | 24°20 | T 27 |
| F 28 | 6 26 56 | 6°43'00 | 16°11 | 1°12 | 19°17 | 14°39 | 7°14 | 21°30 | 22°27 | 8°21 | 6°32 | 20°D20 | 21° 5 | 28°44 | 24°21 | F 28 |
| S 29 | 6 30 53 | 7°44'12 | 29° 1 | 29 × 759 | 19°55 | 14°47 | 7°27 | 21°31 | 22°29 | 8°23 | 6°31 | 20°20 | 21° 2 | 28°51 | 24°22 | S 29 |
| S 30 | 6 34 49 | 8°45'24 | 11 ≈ 35 | 28°54 | 20°31 | 14°56 | 7°39 | 21°31 | 22°30 | 8°25 | 6°29 | 20°21 | 20°58 | 28°58 | 24°24 | S 30 |
| M31 | 6 38 46 | 9 ප් 46'35 | 23≈54 | 27 × 757 | 21≈ 7 | 15 8 6 | 7 , ₹52 | 21 Y 32 | 22) 31 | 8≈27 | 69528 | 20 궁 22 | 20 궁 55 | 29) 4 | 24) 25 | M31 |

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JANUARY 1675 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)Å(| ¥ | Р | n | v | Ç | ģ | Day |
|-------------|--------------------|----------------------|-------------------------|-------------------------|-----------------|-------------------------|--------------------------|-------------------------|-------------------------|-----------------------|-----------------------|-------------------------|-------------------------|-----------------------|-------------------------|-------------|
| T 1 | 6 42 42 | 10 る 47'46 | 6 ¥ 0 | 27°R10 | 21≈40 | 15 8 16 | 8 才 4 | 21 Y 33 | 22) 33 | 8≈29 | 6°R27 | 20 ට 23 | 20 궁 52 | 29 米 11 | 24) 27 | T 1 |
| W 2 | 6 46 39 | 11°48'57 | 17°58 | 26 × 32 | 22°12 | 15°27 | 8°16 | 21°34 | 22°35 | 8°31 | 6926 | 20°24 | 20°49 | 29°18 | 24°28 | W 2 |
| T 3 F 4 | 6 50 36 6 54 32 | 12°50'08 13°51'17 | 29°50 11 ° 42 | 26° 5 25°48 | 22°43 23°12 | 15°38 15°50 | 8°29 8°41 | 21°35 21°36 | 22°36 22°38 | 8°33 8°35 | 6°24 6°23 | 20°24 20°R25 | 20°46 20°43 | 29°24 29°31 | 24°30 24°31 | T 3 F 4 |
| S 5 | 6 58 29 | 14°52'27 | 23°38 | 25°D40 | 23°39 | 16° 3 | 8°53 | 21°38 | 22°40 | 8°37 | 6°22 | 20°25 | 20°39 | 29°38 | 24°33 | S 5 |
| S 6 | 7 2 25 | 15°53'36 | 5 8 44 | 25°41 | 24° 4 | 16°16 | 9° 5 | 21°39 | 22°41 | 8°40 | 6°21 | 20°24 | 20°36 | 29°45 | 24°35 | S 6 |
| M 7 | 7 6 22 | 16°54'44 | 18° 3 | 25°51 | 24°28 | 16°30 | 9°17 | 21°41 | 22°43 | 8°42 | 6°19 | 20°24 | 20°33 | 29°51 | 24°37 | M 7 |
| T 8 | 7 10 18 | 17°55'52 | 0Д40 | 26° 8 | 24°50 | 16°44 | 9°29 | 21°42 | 22°45 | 8°44 | 6°18 | 20°23 | 20°30 | 29°58 | 24°38 | T 8 |
| W 9 | 7 14 15 | 18°56'59 | 13°36 | 26°32 | 25°10 | 16°59 | 9°41 | 21°44 | 22°47 | 8°46 | 6°17 | 20°23 | 20°27 | 0 Υ 5 | 24°40 | W 9 |
| T 10 | 7 18 11 | 19°58'06 | 26°54 | 27° 2 | 25°27 | 17°14 | 9°53 | 21°46 | 22°49 | 8°48 | 6°16 | 20°D23 | 20°24 | 0°11 | 24°42 | T 10 |
| F 11 | 7 22 8 | 20°59'12 | 10933 | 27°39 | 25°43 | 17°30 | 10° 5 | 21°48 | 22°51 | 8°50 | 6°15 | 20°23 | 20°20 | 0°18 | 24°44 | F 11 |
| S 12 | 7 26 5 | 22° 0'17 | 24°31 | 28°20 | 25°57 | 17°46 | 10°16 | 21°50 | 22°53 | 8°53 | 6°13 | 20°R23 | 20°17 | 0°25 | 24°46 | S 12 |
| S 13 | 7 30 1 | 23° 1'22 | 8 Ω 46 | 29° 6 | 26° 8 | 18° 3 | 10°28 | 21°52 | 22°55 | 8°55 | 6°12 | 20°23 | 20°14 | 0°32 | 24°48 | S 13 |
| M14 | 7 33 58 | 24° 2'26 | 23°11 | 29°56 | 26°17 | 18°20 | 10°39 | 21°54 | 22°57 | 8°57 | 6°11 | 20°23 | 20°11 | 0°38 | 24°51 | M14 |
| T 15 | 7 37 54 | 25° 3'30 | 7 Mp 41 | 0중50 | 26°24 | 18°38 | 10°51 | 21°57 | 22°59 | 8°59 | 6°10 | 20°22 | 20° 8 | 0°45 | 24°53 | T 15 |
| W16 T 17 | 7 41 51 | 26° 4'34 27° 5'36 | 22°11 6 Ω 37 | 1°48 2°48 | 26°28 26°R30 | 18°56 19°14 | 11° 2 11°14 | 21°59 22° 2 | 23° 1 23° 4 | 9° 1 9° 4 | 6° 9 6° 8 | 20°22 20°21 | 20° 4 20° 1 | 0°52 0°58 | 24°55 24°57 | W16 T 17 |
| F 18 | 7 45 47 7 49 44 | 27° 5'36 28° 6'39 | 20°53 | 3°51 | 26°R30 26°29 | 19°14 19°33 | 11°14 11°25 | 22° 4 | 23° 4 | 9° 4 9° 6 | 6° 8 6° 6 | 20°21 | 19°58 | 1° 5 | 24°57 24°59 | F 18 |
| S 19 | 7 53 40 | 29° 7'41 | 4ML58 | 4°57 | 26°27 | 19°53 | 11°36 | 22° 7 | 23° 8 | 9° 8 | 6° 5 | 20°D21 | 19°55 | 1°12 | 25° 2 | S 19 |
| S 20 | 7 57 37 | 0≈ 8'42 | 18°50 | 6° 5 | 26°21 | 20°13 | 11°47 | 22°10 | 23°10 | 9°10 | 6° 4 | 20°21 | 19°52 | 1°19 | 25° 4 | S 20 |
| M21 | 8 1 34 | 1° 9'44 | 2 ₹ 28 | 7°15 | 26°13 | 20°33 | 11°58 | 22°13 | 23°13 | 9°13 | 6° 3 | 20°22 | 19°49 | 1°25 | 25° 7 | M21 |
| T 22 | 8 5 30 | 2°10'44 | 15°53 | 8°27 | 26° 3 | 20°53 | 12° 9 | 22°16 | 23°15 | 9°15 | 6° 2 | 20°23 | 19°45 | 1°32 | 25° 9 | T 22 |
| W23 | 8 9 27 | 3°11'44 | 29° 4 | 9°41 | 25°50 | 21°14 | 12°20 | 22°19 | 23°18 | 9°17 | 6° 1 | 20°24 | 19°42 | 1°39 | 25°12 | W23 |
| T 24 | 8 13 23 | 4°12'43 | 12 る 3 | 10°56 | 25°34 | 21°35 | 12°30 | 22°23 | 23°20 | 9°19 | 6° 0 | 20°25 | 19°39 | 1°45 | 25°14 | T 24 |
| F 25 | 8 17 20 | 5°13'41 | 24°49 | 12°13 | 25°16 | 21°57 | 12°41 | 22°26 | 23°23 | 9°22 | 5°59 | 20°R25 | 19°36 | 1°52 | 25°17 | F 25 |
| S 26 | 8 21 16 | 6°14'38 | 7 ≈ 23 | 13°32 | 24°56 | 22°19 | 12°51 | 22°30 | 23°25 | 9°24 | 5°58 | 20°24 | 19°33 | 1°59 | 25°19 | S 26 |
| S 27 | 8 25 13 | 7°15'34 | 19°46 | 14°51 | 24°33 | 22°41 | 13° 2 | 22°33 | 23°28 | 9°26 | 5°57 | 20°23 | 19°30 | 2° 6 | 25°22 | S 27 |
| M28 | 8 29 10 | 8°16'29 | 1) 57 | 16°12 | 24° 9 | 23° 4 | 13°12 | 22°37 | 23°30 | 9°29 | 5°56 | 20°20 | 19°26 | 2°12 | 25°25 | M28 |
| T 29 | 8 33 6 | 9°17'23 | 14° 0 | 17°34 | 23°42 | 23°27 | 13°22 | 22°41 | 23°33 | 9°31 | 5°55 | 20°17 | 19°23 | 2°19 | 25°28 | T 29 |
| W30 T 31 | 8 37 3 8 40 59 | 10°18'15 11≈19'06 | 25°57 7 Ƴ 49 | 18°57 20 る 21 | 23°13 22≈42 | 23°50 24 8 14 | 13°33 13 ×7 43 | 22°44 22 ° 48 | 23°36 23) 38 | 9°33 9 ≈ 35 | 5°54 5 © 53 | 20°14 20 궁 10 | 19°20 19 る 17 | 2°26 2 Υ 32 | 25°30 25 ¥ 33 | W30 T 31 |
| 1 31 | 0 40 39 | 11~1900 | / 1 49 | 20021 | ∠∠ ≈ 4∠ | 24014 | 13,7,43 | 22 1 40 | 237(38 | <i>7</i> ≈ 33 | ددفت | 20010 | 1901/ | 2132 | 237(33 | 1 31 |

Delta T = 26.61 sec

Greg. Calendar

FEBRUARY 1675 GC 00:00 UT

| Day | Sid.t | \odot |) | φ | φ | o ⁷ | 4 | ħ |)ұ(| ¥ | 2 | U | Ω | ţ | Š | Day |
|------|----------|--------------------|----------------|----------------|--------|----------------|-----------------|----------------|-----------------|-------|-------|----------------|----------------|---------------|-----------------|------|
| F 1 | 8 44 56 | 12≈19'55 | 19 Y 40 | 21 궁 47 | 22°R10 | 24 8 38 | 13 ∡ 752 | 22 Y 52 | 23) (41 | 9≈38 | 5°R52 | 20°R 8 | 19 る 14 | 2 Υ 39 | 25) (36 | F 1 |
| S 2 | 8 48 52 | 13°20'44 | 1 8 35 | 23°13 | 21≈36 | 25° 2 | 14° 2 | 22°57 | 23°44 | 9°40 | 5951 | 20궁 6 | 19°10 | 2°46 | 25°39 | S 2 |
| S 3 | 8 52 49 | 14°21'30 | 13°37 | 24°40 | 21° 2 | 25°27 | 14°12 | 23° 1 | 23°47 | 9°42 | 5°50 | 20°D 5 | 19° 7 | 2°53 | 25°42 | S 3 |
| M 4 | 8 56 45 | 15°22'15 | 25°52 | 26° 8 | 20°26 | 25°52 | 14°22 | 23° 5 | 23°50 | 9°45 | 5°49 | 20° 6 | 19° 4 | 2°59 | 25°45 | M 4 |
| T 5 | 9 0 42 | 16°22'59 | 8 П 25 | 27°37 | 19°49 | 26°17 | 14°31 | 23°10 | 23°53 | 9°47 | 5°48 | 20° 7 | 19° 1 | 3° 6 | 25°48 | T 5 |
| W 6 | 9 4 39 | 17°23'41 | 21°18 | 29° 7 | 19°12 | 26°42 | 14°40 | 23°14 | 23°55 | 9°49 | 5°47 | 20° 9 | 18°58 | 3°13 | 25°51 | W 6 |
| T 7 | 9 8 3 5 | 18°24'21 | 4937 | 0≈37 | 18°34 | 27° 7 | 14°50 | 23°19 | 23°58 | 9°51 | 5°46 | 20°10 | 18°55 | 3°19 | 25°54 | T 7 |
| F 8 | 9 12 32 | 19°25'00 | 18°22 | 2° 9 | 17°57 | 27°33 | 14°59 | 23°23 | 24° 1 | 9°54 | 5°45 | 20°R11 | 18°51 | 3°26 | 25°57 | F 8 |
| S 9 | 9 16 28 | 20°25'37 | 2 Ω 32 | 3°41 | 17°20 | 27°59 | 15° 8 | 23°28 | 24° 4 | 9°56 | 5°44 | 20°11 | 18°48 | 3°33 | 26° 0 | S 9 |
| S 10 | 9 20 25 | 21°26'12 | 17° 6 | 5°15 | 16°43 | 28°26 | 15°17 | 23°33 | 24° 7 | 9°58 | 5°44 | 20° 8 | 18°45 | 3°40 | 26° 3 | S 10 |
| M11 | 9 24 21 | 22°26'46 | 1 m 56 | 6°49 | 16° 7 | 28°52 | 15°25 | 23°38 | 24°10 | 10° 0 | 5°43 | 20° 5 | 18°42 | 3°46 | 26° 7 | M11 |
| T 12 | 9 28 18 | 23°27'18 | 16°55 | 8°24 | 15°33 | 29°19 | 15°34 | 23°43 | 24°13 | 10° 3 | 5°42 | 20° 0 | 18°39 | 3°53 | 26°10 | T 12 |
| W13 | 9 32 14 | 24°27'49 | 1 ≏ 54 | 10° 0 | 14°59 | 29°46 | 15°43 | 23°48 | 24°16 | 10° 5 | 5°41 | 19°55 | 18°35 | 4° 0 | 26°13 | W13 |
| T 14 | 9 36 11 | 25°28'19 | 16°43 | 11°37 | 14°27 | 0 I I3 | 15°51 | 23°53 | 24°19 | 10° 7 | 5°40 | 19°50 | 18°32 | 4° 6 | 26°16 | T 14 |
| F 15 | 9 40 8 | 26°28'47 | 1 M .17 | 13°15 | 13°57 | 0°40 | 15°59 | 23°58 | 24°23 | 10° 9 | 5°40 | 19°46 | 18°29 | 4°13 | 26°19 | F 15 |
| S 16 | 9 44 4 | 27°29'14 | 15°31 | 14°54 | 13°28 | 1° 8 | 16° 8 | 24° 3 | 24°26 | 10°11 | 5°39 | 19°44 | 18°26 | 4°20 | 26°23 | S 16 |
| S 17 | 9 48 1 | 28°29'40 | 29°23 | 16°33 | 13° 1 | 1°36 | 16°16 | 24° 9 | 24°29 | 10°14 | 5°38 | 19°D43 | 18°23 | 4°27 | 26°26 | S 17 |
| M18 | 9 51 57 | 29°30'04 | 12 × 3 | 18°14 | 12°37 | 2° 4 | 16°23 | 24°14 | 24°32 | 10°16 | 5°38 | 19°44 | 18°20 | 4°33 | 26°29 | M18 |
| T 19 | 9 55 54 | 0) € 30′28 | 26° 4 | 19°56 | 12°15 | 2°32 | 16°31 | 24°20 | 24°35 | 10°18 | 5°37 | 19°45 | 18°16 | 4°40 | 26°33 | T 19 |
| W20 | 9 59 50 | 1°30'49 | 8 궁 57 | 21°38 | 11°55 | 3° 0 | 16°39 | 24°25 | 24°38 | 10°20 | 5°36 | 19°47 | 18°13 | 4°47 | 26°36 | W20 |
| T 21 | 10 3 47 | 2°31'09 | 21°35 | 23°22 | 11°37 | 3°29 | 16°46 | 24°31 | 24°42 | 10°22 | 5°36 | 19°R47 | 18°10 | 4°54 | 26°40 | T 21 |
| F 22 | 10 7 43 | 3°31'28 | 4≈ 2 | 25° 6 | 11°22 | 3°57 | 16°54 | 24°37 | 24°45 | 10°24 | 5°35 | 19°46 | 18° 7 | 5° 0 | 26°43 | F 22 |
| S 23 | 10 11 40 | 4°31'45 | 16°19 | 26°52 | 11° 9 | 4°26 | 17° 1 | 24°43 | 24°48 | 10°27 | 5°35 | 19°43 | 18° 4 | 5° 7 | 26°47 | S 23 |
| S 24 | 10 15 37 | 5°32'00 | 28°29 | 28°39 | 10°59 | 4°55 | 17° 8 | 24°48 | 24°51 | 10°29 | 5°34 | 19°37 | 18° 1 | 5°14 | 26°50 | S 24 |
| M25 | 10 19 33 | 6°32'13 | 10 ∺ 31 | 0 ∺ 26 | 10°51 | 5°25 | 17°15 | 24°54 | 24°55 | 10°31 | 5°34 | 19°30 | 17°57 | 5°20 | 26°53 | M25 |
| T 26 | 10 23 30 | 7°32'25 | 22°29 | 2°15 | 10°46 | 5°54 | 17°22 | 25° 0 | 24°58 | 10°33 | 5°33 | 19°20 | 17°54 | 5°27 | 26°57 | T 26 |
| W27 | 10 27 26 | 8°32'34 | 4 Υ 22 | 4° 5 | 10°43 | 6°23 | 17°28 | 25° 6 | 25° 1 | 10°35 | 5°33 | 1 <u>9</u> °10 | 1 <u>7</u> °51 | 5°34 | 27° 1 | W27 |
| T 28 | 10 31 23 | 9) 32'42 | 16 Y 14 | 5) 56 | 10°D43 | 6 Ⅱ 53 | 17 , ₹35 | 25 Y 12 | 25 米 5 | 10≈37 | 5932 | 19 る 1 | 17 る 48 | 5 Ƴ 41 | 27) 4 | T 28 |

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| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)f(| ¥ | Р | P. | Ω | Ç | o k | Day |
|--------------|----------------------|-------------------------------------|--------------------------|-----------------|----------------|----------------|-----------------|----------------|----------------|----------------|---------------|-----------------|----------------|---------------|----------------|--------------|
| F 1 | 10 35 19 | 10) (32'48 | 28 Y 5 | 7) (48 | 10≈45 | 7 Ⅱ 23 | 17 .7 41 | 25 Y 19 | 25) 8 | 10≈39 | 5°R32 | 18°R52 | 17 る 45 | 5 ℃ 47 | 27) 8 | F 1 |
| S 2 | 10 39 16 | 11°32'51 | 108 0 | 9°40 | 10°49 | 7°53 | 17°47 | 25°25 | 25°11 | 10°41 | 5931 | 18 궁 45 | 17°41 | 5°54 | 27°11 | S 2 |
| S 3 | 10 43 12 | 12°32'53 | 22° 1 | 11°34 | 10°56 | 8°23 | 17°53 | 25°31 | 25°15 | 10°43 | 5°31 | 18°40 | 17°38 | 6° 1 | 27°15 | S 3 |
| M 4 | 10 47 9 | 13°32'52 | 4 Ⅱ 13 | 13°29 | 11° 5 | 8°53 | 17°59 | 25°37 | 25°18 | 10°45 | 5°30 | 18°38 | 17°35 | 6° 7 | 27°18 | M 4 |
| T 5 | 10 51 5 | 14°32'49 | 16°40 | 15°25 | 11°16 | 9°24 | 18° 5 | 25°44 | 25°22 | 10°47 | 5°30 | 18°D38 | 17°32 | 6°14 | 27°22 | T 5 |
| W 6 | 10 55 2 | 15°32'44 | 29°27 | 17°21 | 11°29 | 9°54 | 18°10 | 25°50 | 25°25 | 10°49 | 5°30 | 18°38 | 17°29 | 6°21 | 27°26 | W 6 |
| T 7 | 10 58 59 | 16°32'37 | 12938 | 19°19 | 11°44 | 10°25 | 18°15 | 25°57 | 25°28 | 10°51 | 5°29 | 18°R39 | 17°26 | 6°28 | 27°29 | T 7 |
| F 8 | 11 2 55 | 17°32'28 | 26°17 | 21°16 | 12° 1 | 10°56 | 18°21 | 26° 3 | 25°32 | 10°53 | 5°29 | 18°39 | 17°22 | 6°34 | 27°33 | F 8 |
| S 9 | 11 6 52 | 18°32'16 | 10 Ω 26 | 23°15 | 12°21 | 11°27 | 18°26 | 26°10 | 25°35 | 10°55 | 5°29 | 18°37 | 17°19 | 6°41 | 27°36 | S 9 |
| S 10 | 11 10 48 | 19°32'02 | 25° 2 | 25°14 | 12°42 | 11°58 | 18°31 | 26°17 | 25°39 | 10°57 | 5°29 | 18°33 | 17°16 | 6°48 | 27°40 | S 10 |
| M11 | 11 14 45 | 20°31'46 | 10 Mg 2 | 27°13 | 13° 4 | 12°29 | 18°35 | 26°23 | 25°42 | 10°59 | 5°28 | 18°26 | 17°13 | 6°54 | 27°44 | M11 |
| T 12 | 11 18 41 | 21°31'28 | 25°16 | 29°12 | 13°29 | 13° 0 | 18°40 | 26°30 | 25°45 | 11° 0 | 5°28 | 18°17 | 17°10 | 7° 1 | 27°47 | T 12 |
| W13 | 11 22 38 | 22°31'08 | 10 2 35 | 1 Υ 11 | 13°55 | 13°32 | 18°44 | 26°37 | 25°49 | 11° 2 | 5°28 | 18° 7 | 17° 7 | 7° 8 | 27°51 | W13 |
| T 14 F 15 | 11 26 34 11 30 31 | 23°30'46 24°30'22 | 25°46 10 M L40 | 3° 9 5° 6 | 14°23 14°53 | 14° 3 14°35 | 18°48 18°53 | 26°44 26°51 | 25°52 25°56 | 11° 4 11° 6 | 5°28 5°28 | 17°58 17°50 | 17° 3 17° 0 | 7°15 7°21 | 27°55 27°58 | T 14 F 15 |
| S 16 | 11 30 31 | 24°30°22 25°29'56 | 25° 9 | 7° 2 | 14°53 | 14°33 | 18°56 | 26°57 | 25°59 | 11° 6 11° 8 | 5°28 | 17°44 | 16°57 | 7°21 | 27°58 28° 2 | S 16 |
| | | | | | | | | | | _ | | - | | | | |
| S 17 | 11 38 24 | 26°29'29 | 9 ,7 11 | 8°57 | 15°57 | 15°38 | 19° 0 | 27° 4 | 26° 3 | 11° 9 | 5°28 | 17°40 | 16°54 | 7°35 | 28° 6 | S 17 |
| M18 | 11 42 21 | 27°29'00 | 22°46 | 10°49 | 16°30 | 16°10 | 19° 4 | 27°11 | 26° 6 | 11°11 | 5°28 | 17°D39 | 16°51 | 7°42 | 28° 9 | M18 |
| T 19 W20 | 11 46 17 11 50 14 | 28°28'29 29°27'57 | 5 る 54 18°41 | 12°39 14°27 | 17° 6 17°42 | 16°42 17°14 | 19° 7 19°10 | 27°18 27°26 | 26° 9 26°13 | 11°13 11°14 | 5°D28 5°28 | 17°39 17°R39 | 16°47 16°44 | 7°48 7°55 | 28°13 28°17 | T 19 W20 |
| T 21 | 11 50 14 | $0\mathbf{\Upsilon}^{27}^{27}^{22}$ | 18 41 1 ≈ 10 | 14 27 16°11 | 17 42 18°20 | 17 14 17°46 | 19°13 | 27°33 | 26°16 | 11 14 11°16 | 5°28 | 17°39 | 16°41 | 8° 2 | 28°20 | T 21 |
| F 22 | 11 54 10 | 1°26'46 | 13°26 | 17°51 | 18°59 | 18°18 | 19°16 | 27°40 | 26°20 | 11°18 | 5°28 | 17°36 | 16°38 | 8° 8 | 28°24 | F 22 |
| S 23 | 12 2 3 | 2°26'08 | 25°31 | 19°27 | 19°39 | 18°51 | 19°19 | 27°47 | 26°23 | 11°19 | 5°28 | 17°30 | 16°35 | 8°15 | 28°28 | S 23 |
| S 24 | 12 6 0 | 3°25'28 | 7) €31 | 20°59 | 20°20 | 19°23 | 19°21 | 27°54 | 26°27 | 11°21 | | 17°22 | 16°32 | 8°22 | 28°31 | S 24 |
| M25 | 12 6 0 | 4°24'46 | 19°26 | 20°39 22°25 | 20°20 21° 3 | 19°23 | 19°21 19°23 | 27°54 28° 1 | 26°27 26°30 | 11°21 | 5°28 5°28 | 17°22 | 16°32 16°28 | 8°22 8°29 | 28°35 | M25 |
| T 26 | 12 13 53 | 5°24'02 | 1 γ 20 | 23°47 | 21°46 | 20°28 | 19°25 | 28° 9 | 26°33 | 11°24 | 5°28 | 16°57 | 16°25 | 8°35 | 28°39 | T 26 |
| W27 | 12 17 50 | 6°23'16 | 13°10 | 25° 3 | 22°30 | 21° 1 | 19°27 | 28°16 | 26°37 | 11°26 | 5°28 | 16°43 | 16°22 | 8°42 | 28°42 | W27 |
| T 28 | 12 21 46 | 7°22'28 | 25° 3 | 26°13 | 23°15 | 21°34 | 19°29 | 28°23 | 26°40 | 11°27 | 5°29 | 16°29 | 16°19 | 8°49 | 28°46 | T 28 |
| F 29 | 12 25 43 | 8°21'38 | 6 8 57 | 27°17 | 24° 1 | 22° 7 | 19°30 | 28°31 | 26°43 | 11°28 | 5°29 | 16°16 | 16°16 | 8°55 | 28°50 | F 29 |
| S 30 | 12 29 39 | 9°20'46 | 18°55 | 28°15 | 24°48 | 22°40 | 19°32 | 28°38 | 26°47 | 11°30 | 5°29 | 16° 5 | 16°12 | 9° 2 | 28°53 | S 30 |
| S 31 | 12 33 36 | 10 Y 19'51 | 0 II 59 | 29 Y 6 | 25≈36 | 23 Ⅱ 13 | 19 % 33 | 28 Y 46 | 26 ∺ 50 | 11≈31 | 5929 | 15 ට 57 | 16 ට 9 | 9Υ 9 | 28 米 57 | S 31 |

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| M 1 | 12 37 32 | 11 Υ 18'54 | 13 I I13 | 29 Y 51 | 26≈24 | 23耳46 | 19 ~ 34 | 28 Y 53 | 26) 54 | 11≈33 | 5930 | 15°R52 | 16 ට 6 | 9 Υ 16 | 29 米 1 | M 1 |
| T 2 | 12 41 29 | 12°17'55 | 25°39 | 0 8 29 | 27°14 | 24°19 | 19°35 | 29° 1 | 26°57 | 11°34 | 5°30 | 15 る 50 | 16° 3 | 9°22 | 29° 4 | T 2 |
| W 3 | 12 45 26 | 13°16'54 | 8923 | 1° 0 | 28° 4 | 24°52 | 19°35 | 29° 8 | 27° 0 | 11°35 | 5°30 | 15°49 | 16° 0 | 9°29 | 29° 8 | W 3 |
| T 4 | 12 49 22 | 14°15'51 | 21°28 | 1°25 | 28°54 | 25°25 | 19°36 | 29°16 | 27° 4 | 11°37 | 5°31 | 15°49 | 15°57 | 9°36 | 29°11 | T 4 |
| F 5 | 12 53 19 | 15°14'45 | 4 Ω 59 | 1°42 | 29°46 | 25°59 | 19°36 | 29°23 | 27° 7 | 11°38 | 5°31 | 15°49 | 15°53 | 9°43 | 29°15 | F 5 |
| S 6 | 12 57 15 | 16°13'36 | 18°57 | 1°53 | 0 ∺ 38 | 26°32 | 19°R36 | 29°31 | 27°10 | 11°39 | 5°31 | 15°46 | 15°50 | 9°49 | 29°18 | S 6 |
| S 7 | 13 1 12 | 17°12'26 | 3 m 24 | 1°R58 | 1°30 | 27° 6 | 19°36 | 29°38 | 27°13 | 11°40 | 5°32 | 15°41 | 15°47 | 9°56 | 29°22 | S 7 |
| M 8 | 13 5 8 | 18°11'13 | 18°16 | 1°56 | 2°23 | 27°39 | 19°35 | 29°46 | 27°17 | 11°42 | 5°32 | 15°34 | 15°44 | 10° 3 | 29°26 | M 8 |
| T 9 | 13 9 5 | 19° 9'58 | 3 ≏ 27 | 1°48 | 3°17 | 28°13 | 19°35 | 29°53 | 27°20 | 11°43 | 5°33 | 15°24 | 15°41 | 10° 9 | 29°29 | T 9 |
| W10 | 13 13 1 | 20° 8'40 | 18°47 | 1°34 | 4°12 | 28°47 | 19°34 | 08 1 | 27°23 | 11°44 | 5°33 | 15°13 | 15°38 | 10°16 | 29°33 | W10 |
| T 11 | 13 16 58 | 21° 7'21 | 4M 5 | 1°14 | 5° 6 | 29°20 | 19°33 | 0° 9 | 27°26 | 11°45 | 5°34 | 15° 2 | 15°34 | 10°23 | 29°36 | T 11 |
| F 12 | 13 20 54 | 22° 6'00 | 19° 9 | 0°50 | 6° 2 | 29°54 | 19°32 | 0°16 | 27°30 | 11°46 | 5°34 | 14°52 | 15°31 | 10°30 | 29°39 | F 12 |
| S 13 | 13 24 51 | 23° 4'38 | 3 才 50 | 0°21 | 6°58 | 0928 | 19°31 | 0°24 | 27°33 | 11°47 | 5°35 | 14°45 | 15°28 | 10°36 | 29°43 | S 13 |
| S 14 | 13 28 48 | 24° 3'13 | 18° 3 | 29 Y 48 | 7°54 | 1° 2 | 19°29 | 0°31 | 27°36 | 11°48 | 5°35 | 14°41 | 15°25 | 10°43 | 29°46 | S 14 |
| M15 | 13 32 44 | 25° 1'47 | 1 る 46 | 29°12 | 8°51 | 1°36 | 19°28 | 0°39 | 27°39 | 11°49 | 5°36 | 14°39 | 15°22 | 10°50 | 29°50 | M15 |
| T 16 | 13 36 41 | 26° 0'19 | 15° 1 | 28°33 | 9°48 | 2°10 | 19°26 | 0°47 | 27°42 | 11°50 | 5°37 | 14°D38 | 15°18 | 10°56 | 29°53 | T 16 |
| W17 | 13 40 37 | 26°58'50 | 27°50 | 27°53 | 10°46 | 2°44 | 19°24 | 0°54 | 27°45 | 11°51 | 5°37 | 14°R38 | 15°15 | 11° 3 | 29°57 | W17 |
| T 18 | 13 44 34 | 27°57'19 | 10≈19 | 27°12 | 11°44 | 3°18 | 19°21 | 1° 2 | 27°48 | 11°52 | 5°38 | 14°38 | 15°12 | 11°10 | 29°59 | T 18 |
| F 19 | 13 48 30 | 28°55'46 | 22°32 | 26°30 | 12°43 | 3°52 | 19°19 | 1°10 | 27°51 | 11°52 | 5°39 | 14°36 | 15° 9 | 11°17 | ο Υ 3 | F 19 |
| S 20 | 13 52 27 | 29°54'12 | 4) €34 | 25°49 | 13°42 | 4°26 | 19°17 | 1°18 | 27°55 | 11°53 | 5°39 | 14°31 | 15° 6 | 11°23 | 0° 6 | S 20 |
| S 21 | 13 56 23 | 0 8 52'36 | 16°29 | 25°10 | 14°41 | 5° 1 | 19°14 | 1°25 | 27°58 | 11°54 | 5°40 | 14°23 | 15° 3 | 11°30 | 0°10 | S 21 |
| M22 | 14 0 20 | 1°50'58 | 28°20 | 24°32 | 15°41 | 5°35 | 19°11 | 1°33 | 28° 1 | 11°55 | 5°41 | 14°13 | 14°59 | 11°37 | 0°13 | M22 |
| T 23 | 14 4 17 | 2°49'19 | 10 Y 11 | 23°57 | 16°41 | 6° 9 | 19° 8 | 1°41 | 28° 4 | 11°56 | 5°42 | 14° 2 | 14°56 | 11°44 | 0°16 | T 23 |
| W24 | 14 8 13 | 3°47'38 | 22° 4 | 23°25 | 17°41 | 6°44 | 19° 4 | 1°48 | 28° 6 | 11°56 | 5°42 | 13°49 | 14°53 | 11°50 | 0°19 | W24 |
| T 25 | 14 12 10 | 4°45'55 | 48 0 | 22°56 | 18°42 | 7°18 | 19° 1 | 1°56 | 28° 9 | 11°57 | 5°43 | 13°36 | 14°50 | 11°57 | 0°23 | T 25 |
| F 26 | 14 16 6 | 5°44'10 | 16° 0 | 22°31 | 19°43 | 7°53 | 18°57 | 2° 4 | 28°12 | 11°58 | 5°44 | 13°24 | 14°47 | 12° 4 | 0°26 | F 26 |
| S 27 | 14 20 3 | 6°42'24 | 28° 6 | 22°11 | 20°45 | 8°27 | 18°54 | 2°11 | 28°15 | 11°58 | 5°45 | 13°14 | 14°44 | 12°10 | 0°29 | S 27 |
| S 28 | 14 23 59 | 7°40'36 | 10 Ⅲ 19 | 21°55 | 21°46 | 9° 2 | 18°50 | 2°19 | 28°18 | 11°59 | 5°46 | 13° 7 | 14°40 | 12°17 | 0°32 | S 28 |
| M29 | 14 27 56 | 8°38'46 | 22°42 | 21°43 | 22°48 | 9°37 | 18°45 | 2°27 | 28°21 | 11°59 | 5°47 | 1 <u>3</u> ° 2 | 1 <u>4</u> °37 | 12°24 | 0°35 | M29 |
| T 30 | 14 31 52 | 9 8 36'54 | 59916 | 21 Y 36 | 23 米 50 | 109911 | 18 .7 41 | 2 8 34 | 28 米 24 | 12≈ 0 | 59548 | 13 る 0 | 14 궁 34 | 12 Y 31 | 0 Υ 38 | T 30 |

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| W 1 | 14 35 49 | 10835'00 | 1895 5 | 21°D34 | 24) 53 | 109546 | 18°R37 | 2 8 42 | 28 米 26 | 12≈ 0 | 59548 | 13°D 0 | 14 ට 31 | 12 Y 37 | 0 Υ 41 | W 1 |
| T 2 | 14 39 46 | 11°33'04 | 1 N 11 | 21 Y 37 | 25°55 | 11°21 | 18 ∡ ³32 | 2°50 | 28°29 | 12° 1 | 5°49 | 13る 1 | 14°28 | 12°44 | 0°44 | T 2 |
| _ | 14 43 42 | 12°31'07 | 14°38 | 21°44 | 26°58 | 11°56 | 18°27 | 2°57 | 28°32 | 12° 1 | 5°50 | 13°R 1 | 14°24 | 12°51 | 0°47 | F 3 |
| S 4 | 14 47 39 | 13°29'07 | 28°28 | 21°56 | 28° 1 | 12°31 | 18°22 | 3° 5 | 28°34 | 12° 1 | 5°51 | 13° 0 | 14°21 | 12°58 | 0°50 | S 4 |
| S 5 | 14 51 35 | 14°27'05 | 12 m 42 | 22°13 | 29° 5 | 13° 6 | 18°17 | 3°13 | 28°37 | 12° 2 | 5°52 | 12°57 | 14°18 | 13° 4 | 0°53 | S 5 |
| M 6 | 14 55 32 | 15°25'02 | 27°18 | 22°34 | oΥ 8 | 13°41 | 18°12 | 3°20 | 28°40 | 12° 2 | 5°53 | 12°52 | 14°15 | 13°11 | 0°56 | M 6 |
| T 7 | 14 59 28 | 16°22'56 | 12 ≏ 12 | 22°59 | 1°12 | 14°16 | 18° 7 | 3°28 | 28°42 | 12° 2 | 5°54 | 12°45 | 14°12 | 13°18 | 0°58 | T 7 |
| W 8 | 15 3 25 | 17°20'49 | 27°17 | 23°29 | 2°16 | 14°51 | 18° 1 | 3°35 | 28°45 | 12° 2 | 5°55 | 12°37 | 14° 9 | 13°24 | 1° 1 | W 8 |
| T 9 | 15 7 21 | 18°18'40 | 12 M 24 | 24° 3 | 3°20 | 15°26 | 17°56 | 3°43 | 28°47 | 12° 3 | 5°57 | 12°29 | 14° 5 | 13°31 | 1° 4 | T 9 |
| F 10 | 15 11 18 | 19°16'30 | 27°21 | 24°40 | 4°25 | 16° 1 | 17°50 | 3°50 | 28°50 | 12° 3 | 5°58 | 12°22 | 14° 2 | 13°38 | 1° 7 | F 10 |
| S 11 | 15 15 15 | 20°14'19 | 12 % 0 | 25°22 | 5°30 | 16°36 | 17°44 | 3°58 | 28°52 | 12° 3 | 5°59 | 12°16 | 13°59 | 13°45 | 1° 9 | S 11 |
| S 12 | 15 19 11 | 21°12'06 | 26°16 | 26° 7 | 6°34 | 17°11 | 17°38 | 4° 5 | 28°55 | 12° 3 | 6° 0 | 12°13 | 13°56 | 13°51 | 1°12 | S 12 |
| M13 | 15 23 8 | 22° 9'52 | 10궁 4 | 26°56 | 7°39 | 17°46 | 17°32 | 4°13 | 28°57 | 12° 3 | 6° 1 | 12°D12 | 13°53 | 13°58 | 1°15 | M13 |
| T 14 | 15 27 4 | 23° 7'37 | 23°24 | 27°48 | 8°45 | 18°22 | 17°26 | 4°20 | 28°59 | 12° 3 | 6° 2 | 12°12 | 13°50 | 14° 5 | 1°17 | T 14 |
| W15 | 15 31 1 | 24° 5'20 | 6≈19 | 28°43 | 9°50 | 18°57 | 17°19 | 4°28 | 29° 2 | 12°R 3 | 6° 3 | 12°13 | 13°46 | 14°11 | 1°20 | W15 |
| | 15 34 57 | 25° 3'03 | 18°52 | 29°42 | 10°56 | 19°32 | 17°13 | 4°35 | 29° 4 | 12° 3 | 6° 4 | 12°14 | 13°43 | 14°18 | 1°22 | T 16 |
| F 17 | 15 38 54 | 26° 0'44 | 1 ∀ 8 | 0 8 44 | 12° 1 | 20° 7 | 17° 6 | 4°42 | 29° 6 | 12° 3 | 6° 6 | 12°R15 | 13°40 | 14°25 | 1°25 | F 17 |
| S 18 | 15 42 50 | 26°58'24 | 13°11 | 1°49 | 13° 7 | 20°43 | 17° 0 | 4°50 | 29° 8 | 12° 3 | 6° 7 | 12°13 | 13°37 | 14°32 | 1°27 | S 18 |
| S 19 | 15 46 47 | 27°56'03 | 25° 6 | 2°56 | 14°13 | 21°18 | 16°53 | 4°57 | 29°10 | 12° 3 | 6° 8 | 12°10 | 13°34 | 14°38 | 1°29 | S 19 |
| M20 | 15 50 44 | 28°53'42 | 6 Ƴ 58 | 4° 7 | 15°20 | 21°54 | 16°46 | 5° 4 | 29°13 | 12° 3 | 6° 9 | 12° 4 | 13°30 | 14°45 | 1°32 | M20 |
| T 21 | 15 54 40 | 29°51'19 | 18°49 | 5°21 | 16°26 | 22°29 | 16°39 | 5°12 | 29°15 | 12° 2 | 6°11 | 11°58 | 13°27 | 14°52 | 1°34 | T 21 |
| W22 | 15 58 37 | 0∏48'55 | 0 8 45 | 6°37 | 17°32 | 23° 5 | 16°32 | 5°19 | 29°17 | 12° 2 | 6°12 | 11°50 | 13°24 | 14°59 | 1°36 | W22 |
| | 16 2 33 | 1°46'30 | 12°46 | 7°56 | 18°39 | 23°40 | 16°25 | 5°26 | 29°19 | 12° 2 | 6°13 | 11°43 | 13°21 | 15° 5 | 1°38 | T 23 |
| | 16 6 30 | 2°44'04 | 24°54 | 9°18 | 19°46 | 24°16 | 16°18 | 5°33 | 29°21 | 12° 2 | 6°14 | 11°36 | 13°18 | 15°12 | 1°41 | F 24 |
| S 25 | 16 10 26 | 3°41'37 | 7 Ⅱ 12 | 10°42 | 20°53 | 24°52 | 16°10 | 5°40 | 29°23 | 12° 1 | 6°16 | 11°31 | 13°15 | 15°19 | 1°43 | S 25 |
| | 16 14 23 | 4°39'09 | 19°39 | 12° 9 | 22° 0 | 25°27 | 16° 3 | 5°47 | 29°24 | 12° 1 | 6°17 | 11°27 | 13°11 | 15°25 | 1°45 | S 26 |
| | 16 18 19 | 5°36'40 | 29517 | 13°38 | 23° 7 | 26° 3 | 15°56 | 5°54 | 29°26 | 12° 1 | 6°18 | 11°25 | 13° 8 | 15°32 | 1°47 | M27 |
| - | 16 22 16 | 6°34'10 | 15° 8 | 15°11 | 24°14 | 26°39 | 15°48 | 6° 1 | 29°28 | 12° 0 | 6°20 | 11°D25 | 13° 5 | 15°39 | 1°49 | T 28 |
| | 16 26 13 | 7°31'38 | 28°11 | 16°45 | 25°22 | 27°14 | 15°41 | 6° 8 | 29°30 | 12° 0 | 6°21 | 11°25 | 13° 2 | 15°46 | 1°51 | W29 |
| | 16 30 9 | 8°29'06 | $11\Omega_{29}$ | 18°22 | 26°29 | 27°50 | 15°33 | 6°15 | 29°32 | 11°59 | 6°22 | 1 <u>1°</u> 27 | 1 <u>2</u> °59 | 15°52 | 1°53 | T 30 |
| F 31 | 16 34 6 | 9∏26'32 | 25 Ω 2 | 208 2 | 27 Y 37 | 28926 | 15 ₹ 26 | 6 8 22 | 29 米 33 | 11 ≈ 59 | 6924 | 11 る 28 | 12 る 56 | 15 Y 59 | 1 Y 55 | F 31 |

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| S 1 | 16 38 2 | 10П23'56 | 8 Mp 52 | 21844 | 28 Y 44 | 299 2 | 15°R18 | 6 8 29 | 29) 35 | 11°R58 | 6925 | 11°R29 | 12 る 52 | 16 Y 6 | 1 Y 56 | S 1 |
| S 2 | 16 41 59 | 11°21'20 | 22°58 | 23°29 | 29°52 | 29°38 | 15 ₹ 10 | 6°36 | 29°36 | 11 ≈ 58 | 6°26 | 11 る 28 | 12°49 | 16°13 | 1°58 | S 2 |
| M 3 | 16 45 55 | 12°18'42 | 7 ≏ 20 | 25°16 | 1 8 0 | 0Ω14 | 15° 3 | 6°43 | 29°38 | 11°57 | 6°28 | 11°27 | 12°46 | 16°19 | 2° 0 | M 3 |
| T 4 | 16 49 52 | 13°16'03 | 21°54 | 27° 6 | 2° 8 | 0°50 | 14°55 | 6°49 | 29°39 | 11°56 | 6°29 | 11°24 | 12°43 | 16°26 | 2° 1 | T 4 |
| W 5 | 16 53 48 | 14°13'24 | 6M35 | 28°58 | 3°16 | 1°26 | 14°48 | 6°56 | 29°41 | 11°56 | 6°31 | 11°20 | 12°40 | 16°33 | 2° 3 | W 5 |
| T 6 F 7 | 16 57 45 17 1 42 | 15°10'43 16° 8'02 | 21°17 5 ×7 53 | 0 Ⅱ 53 2°49 | 4°24 5°33 | 2° 2 2°38 | 14°40 14°32 | 7° 3 7° 9 | 29°42 29°44 | 11°55 11°54 | 6°32 6°33 | 11°17 11°13 | 12°36 12°33 | 16°39 16°46 | 2° 5 2° 6 | T 6 F 7 |
| S 8 | 17 1 42 | 10 802 17° 5'19 | 20°16 | 4°48 | 6°41 | 3°14 | 14°25 | 7°16 | 29°45 | 11°54 | 6°35 | 11°11 | 12°30 | 16°53 | 2° 8 | г / S 8 |
| | | | | _ | | | | | | | | | | | 2° 9 | |
| S 9 M10 | 17 9 35 17 13 31 | 18° 2'37 18°59'53 | 4 ට 21 18° 4 | 6°50 8°53 | 7°50 8°58 | 3°50 4°26 | 14°17 14° 9 | 7°22 7°29 | 29°46 29°47 | 11°53 11°52 | 6°36 6°38 | 11°D10 11°10 | 12°27 12°24 | 17° 0 17° 6 | 2° 9 2°10 | S 9 M10 |
| T 11 | 17 17 28 | 18 39 33 19°57'09 | 18 4 1 ≈ 24 | 10°58 | 10° 7 | 5° 2 | 14° 9 | 7°35 | 29°47 29°49 | 11°51 | 6°39 | 11°11 | 12°21 | 17°13 | 2°12 | T 11 |
| W12 | 17 21 24 | 20°54'25 | 14°21 | 13° 4 | 11°16 | 5°38 | 13°54 | 7°41 | 29°50 | 11°50 | 6°41 | 11°12 | 12°17 | 17°20 | 2°13 | W12 |
| T 13 | 17 25 21 | 21°51'40 | 26°57 | 15°13 | 12°25 | 6°14 | 13°47 | 7°48 | 29°51 | 11°50 | 6°42 | 11°14 | 12°14 | 17°26 | 2°14 | T 13 |
| F 14 | 17 29 18 | 22°48'55 | 9) 15 | 17°22 | 13°34 | 6°50 | 13°39 | 7°54 | 29°52 | 11°49 | 6°44 | 11°15 | 12°11 | 17°33 | 2°15 | F 14 |
| S 15 | 17 33 14 | 23°46'09 | 21°21 | 19°32 | 14°43 | 7°27 | 13°32 | 8° 0 | 29°53 | 11°48 | 6°45 | 11°R15 | 12° 8 | 17°40 | 2°17 | S 15 |
| S 16 | 17 37 11 | 24°43'24 | 3 Υ18 | 21°43 | 15°52 | 8° 3 | 13°24 | 8° 6 | 29°54 | 11°47 | 6°47 | 11°15 | 12° 5 | 17°47 | 2°18 | S 16 |
| M17 | 17 41 7 | 25°40'38 | 15°11 | 23°54 | 17° 1 | 8°39 | 13°17 | 8°12 | 29°55 | 11°46 | 6°48 | 11°14 | 12° 1 | 17°53 | 2°19 | M17 |
| T 18 | 17 45 4 | 26°37'52 | 27° 5 | 26° 6 | 18°10 | 9°16 | 13°10 | 8°18 | 29°56 | 11°45 | 6°50 | 11°13 | 11°58 | 18° 0 | 2°20 | T 18 |
| W19 | 17 49 0 | 27°35'06 | 9 8 3 | 28°17 | 19°20 | 9°52 | 13° 2 | 8°24 | 29°56 | 11°44 | 6°51 | 11°11 | 11°55 | 18° 7 | 2°20 | W19 |
| T 20 | 17 52 57 | 28°32'20 | 21° 9 | 0928 | 20°29 | 10°28 | 12°55 | 8°30 | 29°57 | 11°43 | 6°53 | 11° 9 | 11°52 | 18°14 | 2°21 | T 20 |
| F 21 | 17 56 53 | 29°29'34 | 3 Ⅱ 25 | 2°39 | 21°39 | 11° 5 | 12°48 | 8°36 | 29°58 | 11°42 | 6°54 | 11° 7 | 11°49 | 18°20 | 2°22 | F 21 |
| S 22 | 18 0 50 | 09526'48 | 15°55 | 4°48 | 22°48 | 11°41 | 12°41 | 8°42 | 29°58 | 11°40 | 6°56 | 11° 6 | 11°46 | 18°27 | 2°23 | S 22 |
| S 23 | 18 447 | 1°24'02 | 28°38 | 6°57 | 23°58 | 12°18 | 12°34 | 8°47 | 29°59 | 11°39 | 6°57 | 11° 5 | 11°42 | 18°34 | 2°24 | S 23 |
| M24 | 18 8 43 | 2°21'15 | 119936 | 9° 4 | 25° 8 | 12°54 | 12°27 | 8°53 | 29°59 | 11°38 | 6°59 | 11°D 5 | 11°39 | 18°40 | 2°24 | M24 |
| T 25 | 18 12 40 | 3°18'28 | 24°49 | 11° 9 | 26°17 | 13°31 | 12°21 | 8°59 | ο Υ 0 | 11°37 | 7° 0 | 11° 5 | 11°36 | 18°47 | 2°25 | T 25 |
| W26 T 27 | 18 16 36 18 20 33 | 4°15'41 5°12'53 | 8 Ω 15 21°54 | 13°14 15°16 | 27°27 28°37 | 14° 8 | 12°14 | 9° 4 9°10 | 0° 1 0° 1 | 11°36 11°35 | 7° 2 7° 3 | 11° 6 11° 7 | 11°33 11°30 | 18°54 19° 1 | 2°25 2°26 | W26 T 27 |
| F 28 | 18 20 33 | 5°12'53 6°10'06 | 5 m 44 | 15°16 17°17 | 28°37 29°47 | 14°44 15°21 | 12° 7 12° 1 | 9°10 9°15 | 0° 1 | 11°33 | 7° 3 | 11° 7 | 11°30 11°27 | 19° 1 | 2°26 2°26 | F 28 |
| S 29 | 18 24 29 | 7° 7'18 | 19°45 | 17 17 19°15 | 29 47 0 ∏ 57 | 15°58 | 11°55 | 9°20 | 0° 2 | 11°32 | 7° 6 | 11° 7 | 11°23 | 19 / 19°14 | 2°27 | S 29 |
| S 30 | 18 32 22 | 895 4'29 | 3 <u>0</u> 53 | 219612 | 2 I 8 | 16Ω34 | 11 33 11 48 | 9 8 25 | 0Υ 2 | 11≈31 | 7 95 8 | 11°R 7 | 11 건 20 | 19 Υ 21 | 2 Υ 27 | S 30 |

Delta T = 26.36 sec

JULY 1675 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Ŷ | ð | 4 | ħ |)f(| ¥ | Р | v | Ω | Ç | ę k | Day |
|------|----------|------------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------|----------------|----------------|----------------|----------------|---------------|------|
| M 1 | 18 36 19 | 995 1'40 | 18☎ 8 | 2395 7 | 3 Ⅱ 18 | 17 Ω 11 | 11°R42 | 9 8 31 | 0 Υ 2 | 11°R30 | 7 9 5 9 | 11°R 7 | 11 궁 17 | 19 Y 28 | 2 Y 27 | M 1 |
| T 2 | 18 40 16 | 9°58'51 | 2 M 26 | 25° 1 | 4°28 | 17°48 | 11 × 36 | 9°36 | 0° 2 | 11≈28 | 7°11 | 11중 7 | 11°14 | 19°34 | 2°27 | T 2 |
| W 3 | 18 44 12 | 10°56'02 | 16°44 | 26°52 | 5°38 | 18°25 | 11°30 | 9°41 | 0° 2 | 11°27 | 7°12 | 11°D 7 | 11°11 | 19°41 | 2°28 | W 3 |
| T 4 | 18 48 9 | 11°53'13 | 0 才 59 | 28°41 | 6°49 | 19° 1 | 11°25 | 9°46 | 0° 3 | 11°26 | 7°14 | 11° 7 | 11° 7 | 19°48 | 2°28 | T 4 |
| F 5 | 18 52 5 | 12°50'24 | 15° 7 | $0\Omega_{28}$ | 7°59 | 19°38 | 11°19 | 9°50 | 0°R 3 | 11°24 | 7°15 | 11° 7 | 11° 4 | 19°54 | 2°28 | F 5 |
| S 6 | 18 56 2 | 13°47'35 | 29° 5 | 2°13 | 9°10 | 20°15 | 11°14 | 9°55 | 0° 3 | 11°23 | 7°17 | 11° 8 | 11° 1 | 20° 1 | 2°R28 | S 6 |
| S 7 | 18 59 58 | 14°44'46 | 12 る 49 | 3°56 | 10°20 | 20°52 | 11°8 | 10° 0 | 0° 3 | 11°21 | 7°18 | 11°R 8 | 10°58 | 20° 8 | 2°28 | S 7 |
| M 8 | 19 3 55 | 15°41'57 | 26°17 | 5°37 | 11°31 | 21°29 | 11° 3 | 10° 4 | 0° 2 | 11°20 | 7°20 | 11° 8 | 10°55 | 20°15 | 2°28 | M 8 |
| T 9 | 19 7 52 | 16°39'09 | 9 ≈ 26 | 7°17 | 12°42 | 22° 6 | 10°58 | 10° 9 | 0° 2 | 11°19 | 7°21 | 11° 7 | 10°52 | 20°21 | 2°27 | T 9 |
| W10 | 19 11 48 | 17°36'20 | 22°18 | 8°54 | 13°53 | 22°43 | 10°53 | 10°13 | 0° 2 | 11°17 | 7°23 | 11° 6 | 10°48 | 20°28 | 2°27 | W10 |
| T 11 | 19 15 45 | 18°33'33 | 4) €52 | 10°29 | 15° 3 | 23°20 | 10°49 | 10°18 | 0° 2 | 11°16 | 7°24 | 11° 6 | 10°45 | 20°35 | 2°27 | T 11 |
| F 12 | 19 19 41 | 19°30'46 | 17°11 | 12° 2 | 16°14 | 23°57 | 10°44 | 10°22 | 0° 1 | 11°14 | 7°26 | 11° 5 | 10°42 | 20°41 | 2°27 | F 12 |
| S 13 | 19 23 38 | 20°27'59 | 29°17 | 13°34 | 17°25 | 24°34 | 10°40 | 10°26 | 0° 1 | 11°13 | 7°27 | 11° 4 | 10°39 | 20°48 | 2°26 | S 13 |
| S 14 | 19 27 34 | 21°25'13 | 11 Y 15 | 15° 3 | 18°36 | 25°11 | 10°35 | 10°30 | 0° 1 | 11°11 | 7°29 | 11° 3 | 10°36 | 20°55 | 2°26 | S 14 |
| M15 | 19 31 31 | 22°22'28 | 23° 9 | 16°30 | 19°47 | 25°48 | 10°31 | 10°34 | 0° 0 | 11°10 | 7°30 | 11°D 3 | 10°33 | 21° 2 | 2°25 | M15 |
| T 16 | 19 35 27 | 23°19'44 | 5 8 3 | 17°55 | 20°59 | 26°25 | 10°27 | 10°38 | 29 米 59 | 11° 8 | 7°32 | 11° 3 | 10°29 | 21° 8 | 2°25 | T 16 |
| W17 | 19 39 24 | 24°17'00 | 17° 2 | 19°19 | 22°10 | 27° 3 | 10°24 | 10°42 | 29°59 | 11° 7 | 7°33 | 11° 4 | 10°26 | 21°15 | 2°24 | W17 |
| T 18 | 19 43 20 | 25°14'18 | 29°10 | 20°40 | 23°21 | 27°40 | 10°20 | 10°46 | 29°59 | 11° 5 | 7°35 | 11° 5 | 10°23 | 21°22 | 2°24 | T 18 |
| F 19 | 19 47 17 | 26°11'36 | 11 Ⅱ 32 | 21°58 | 24°33 | 28°17 | 10°16 | 10°50 | 29°58 | 11° 4 | 7°36 | 11° 6 | 10°20 | 21°29 | 2°23 | F 19 |
| S 20 | 19 51 14 | 27° 8'55 | 24°10 | 23°15 | 25°44 | 28°54 | 10°13 | 10°53 | 29°57 | 11° 2 | 7°37 | 11° 7 | 10°17 | 21°35 | 2°22 | S 20 |
| S 21 | 19 55 10 | 28° 6'15 | 7 9 5 7 | 24°29 | 26°55 | 29°32 | 10°10 | 10°57 | 29°57 | 11° 0 | 7°39 | 11°R 8 | 10°13 | 21°42 | 2°21 | S 21 |
| M22 | 19 59 7 | 29° 3'36 | 20°23 | 25°41 | 28° 7 | 0 m) 9 | 10° 7 | 11° 0 | 29°56 | 10°59 | 7°40 | 11° 8 | 10°10 | 21°49 | 2°21 | M22 |
| T 23 | 20 3 3 | oΩ 0'57 | 3 Ω 58 | 26°51 | 29°19 | 0°46 | 10° 4 | 11° 4 | 29°55 | 10°57 | 7°42 | 11° 7 | 10° 7 | 21°55 | 2°20 | T 23 |
| W24 | 20 7 0 | 0°58'19 | 17°51 | 27°58 | 0930 | 1°24 | 10° 2 | 11° 7 | 29°54 | 10°56 | 7°43 | 11° 5 | 10° 4 | 22° 2 | 2°19 | W24 |
| T 25 | 20 10 56 | 1°55'42 | 1 m 57 | 29° 3 | 1°42 | 2° 1 | 10° 0 | 11°10 | 29°53 | 10°54 | 7°45 | 11° 2 | 10° 1 | 22° 9 | 2°18 | T 25 |
| F 26 | 20 14 53 | 2°53'05 | 16°13 | 0 m , 5 | 2°54 | 2°39 | 9°57 | 11°13 | 29°52 | 10°52 | 7°46 | 10°59 | 9°58 | 22°16 | 2°17 | F 26 |
| S 27 | 20 18 50 | 3°50'29 | 0 ჲ 34 | 1° 4 | 4° 5 | 3°16 | 9°55 | 11°16 | 29°51 | 10°51 | 7°47 | 10°57 | 9°54 | 22°22 | 2°16 | S 27 |
| S 28 | 20 22 46 | 4°47'54 | 14°55 | 2° 1 | 5°17 | 3°54 | 9°53 | 11°19 | 29°50 | 10°49 | 7°49 | 10°55 | 9°51 | 22°29 | 2°14 | S 28 |
| M29 | 20 26 43 | 5°45'19 | 29°13 | 2°54 | 6°29 | 4°31 | 9°52 | 11°22 | 29°49 | 10°48 | 7°50 | 10°D53 | 9°48 | 22°36 | 2°13 | M29 |
| T 30 | 20 30 39 | 6°42'45 | 13 M 24 | 3°44 | 7°41 | 5° 9 | 9°50 | 11°24 | 29°48 | 10°46 | 7°51 | 1 <u>0</u> °53 | 9°45 | 22°42 | 2°12 | T 30 |
| W31 | 20 34 36 | 7 Ω 40'12 | 27 M 27 | 4 m /31 | 8 9 53 | 5 M)47 | 9 .7 49 | 11 8 27 | 29 米 47 | 10≈44 | 7 9 53 | 10 る 54 | 9 궁 42 | 22 Y 49 | 2 Υ 11 | W31 |

Delta T = 26.31 sec

Greg. Calendar

AUGUST 1675 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | o [™] | 4 | ħ |)f(| ¥ | Р | ¥ | ಭ | Ç | ς κ | Day |
|------|----------|------------------|-----------------|----------------|----------------|----------------|----------------|--------|-----------------|--------|-------|----------------|---------------|----------------|---------------|------|
| T 1 | 20 38 32 | 8 Ω 37'39 | 11 × 20 | 5 m 15 | 1095 5 | 6Mp24 | 9°R48 | 11829 | 29°R46 | 10°R43 | 7954 | 10 궁 56 | 9 る 39 | 22 Y 56 | 2°R 9 | T 1 |
| F 2 | 20 42 29 | 9°35'07 | 25° 3 | 5°54 | 11°17 | 7° 2 | 9 .7 47 | 11°32 | 29){ 44 | 10≈41 | 7°55 | 10°57 | 9°35 | 23° 3 | 2 Υ 8 | F 2 |
| S 3 | 20 46 25 | 10°32'36 | 8 궁 34 | 6°30 | 12°29 | 7°40 | 9°46 | 11°34 | 29°43 | 10°39 | 7°57 | 10°R58 | 9°32 | 23° 9 | 2° 6 | S 3 |
| S 4 | 20 50 22 | 11°30'06 | 21°53 | 7° 2 | 13°42 | 8°18 | 9°46 | 11°36 | 29°42 | 10°38 | 7°58 | 10°58 | 9°29 | 23°16 | 2° 5 | S 4 |
| M 5 | 20 54 19 | 12°27'37 | 5≈ 0 | 7°30 | 14°54 | 8°55 | 9°45 | 11°38 | 29°40 | 10°36 | 7°59 | 10°56 | 9°26 | 23°23 | 2° 3 | M 5 |
| T 6 | 20 58 15 | 13°25'09 | 17°53 | 7°53 | 16° 6 | 9°33 | 9°D45 | 11°40 | 29°39 | 10°35 | 8° 1 | 10°52 | 9°23 | 23°29 | 2° 2 | T 6 |
| W 7 | 21 2 12 | 14°22'42 | 0) €33 | 8°12 | 17°19 | 10°11 | 9°45 | 11°42 | 29°37 | 10°33 | 8° 2 | 10°47 | 9°19 | 23°36 | 2° 0 | W 7 |
| T 8 | 21 6 8 | 15°20'16 | 12°59 | 8°26 | 18°31 | 10°49 | 9°45 | 11°44 | 29°36 | 10°31 | 8° 3 | 10°41 | 9°16 | 23°43 | 1°59 | T 8 |
| F 9 | 21 10 5 | 16°17'51 | 25°14 | 8°34 | 19°44 | 11°27 | 9°46 | 11°46 | 29°34 | 10°30 | 8° 4 | 10°35 | 9°13 | 23°50 | 1°57 | F 9 |
| S 10 | 21 14 1 | 17°15'28 | 7 Υ 18 | 8°R38 | 20°56 | 12° 5 | 9°46 | 11°47 | 29°33 | 10°28 | 8° 6 | 10°30 | 9°10 | 23°56 | 1°55 | S 10 |
| S 11 | 21 17 58 | 18°13'07 | 19°15 | 8°36 | 22° 9 | 12°43 | 9°47 | 11°49 | 29°31 | 10°26 | 8° 7 | 10°25 | 9° 7 | 24° 3 | 1°53 | S 11 |
| M12 | 21 21 54 | 19°10'47 | 1 8 7 | 8°29 | 23°21 | 13°21 | 9°48 | 11°50 | 29°30 | 10°25 | 8° 8 | 10°21 | 9° 4 | 24°10 | 1°51 | M12 |
| T 13 | 21 25 51 | 20° 8'28 | 13° 0 | 8°15 | 24°34 | 13°59 | 9°49 | 11°51 | 29°28 | 10°23 | 8° 9 | 10°20 | 9° 0 | 24°17 | 1°50 | T 13 |
| W14 | 21 29 47 | 21° 6'12 | 24°57 | 7°57 | 25°47 | 14°37 | 9°51 | 11°53 | 29°26 | 10°22 | 8°10 | 10°D19 | 8°57 | 24°23 | 1°48 | W14 |
| T 15 | 21 33 44 | 22° 3'57 | 7 Π 4 | 7°32 | 27° 0 | 15°15 | 9°52 | 11°54 | 29°24 | 10°20 | 8°12 | 10°20 | 8°54 | 24°30 | 1°46 | T 15 |
| F 16 | 21 37 41 | 23° 1'43 | 19°26 | 7° 2 | 28°13 | 15°53 | 9°54 | 11°54 | 29°23 | 10°18 | 8°13 | 10°22 | 8°51 | 24°37 | 1°44 | F 16 |
| S 17 | 21 41 37 | 23°59'31 | 29 6 | 6°27 | 29°26 | 16°32 | 9°56 | 11°55 | 29°21 | 10°17 | 8°14 | 10°23 | 8°48 | 24°43 | 1°42 | S 17 |
| S 18 | 21 45 34 | 24°57'21 | 15° 9 | 5°47 | 0⋒39 | 17°10 | 9°58 | 11°56 | 29°19 | 10°15 | 8°15 | 10°R23 | 8°45 | 24°50 | 1°40 | S 18 |
| M19 | 21 49 30 | 25°55'13 | 28°37 | 5° 2 | 1°52 | 17°48 | 10° 0 | 11°57 | 29°17 | 10°14 | 8°16 | 10°22 | 8°41 | 24°57 | 1°37 | M19 |
| T 20 | 21 53 27 | 26°53'06 | $12\Omega_{30}$ | 4°14 | 3° 5 | 18°26 | 10° 2 | 11°57 | 29°15 | 10°12 | 8°17 | 10°18 | 8°38 | 25° 4 | 1°35 | T 20 |
| W21 | 21 57 23 | 27°51'01 | 26°45 | 3°22 | 4°18 | 19° 5 | 10° 5 | 11°58 | 29°13 | 10°11 | 8°18 | 10°13 | 8°35 | 25°10 | 1°33 | W21 |
| T 22 | 22 1 20 | 28°48'57 | 11 M p18 | 2°28 | 5°31 | 19°43 | 10° 8 | 11°58 | 29°11 | 10° 9 | 8°19 | 10° 6 | 8°32 | 25°17 | 1°31 | T 22 |
| F 23 | 22 5 17 | 29°46'54 | 26° 1 | 1°33 | 6°44 | 20°22 | 10°10 | 11°58 | 29° 9 | 10° 8 | 8°20 | 9°58 | 8°29 | 25°24 | 1°29 | F 23 |
| S 24 | 22 9 13 | 0 m 44'53 | 10 ≏ 48 | 0°38 | 7°58 | 21° 0 | 10°14 | 11°R58 | 29° 7 | 10° 6 | 8°21 | 9°51 | 8°25 | 25°30 | 1°26 | S 24 |
| S 25 | 22 13 10 | 1°42'54 | 25°29 | 29 Ω 44 | 9°11 | 21°39 | 10°17 | 11°58 | 29° 5 | 10° 5 | 8°22 | 9°45 | 8°22 | 25°37 | 1°24 | S 25 |
| M26 | 22 17 6 | 2°40'56 | 10 M 0 | 28°52 | 10°24 | 22°17 | 10°20 | 11°58 | 29° 3 | 10° 3 | 8°23 | 9°40 | 8°19 | 25°44 | 1°22 | M26 |
| T 27 | 22 21 3 | 3°38'59 | 24°15 | 28° 3 | 11°38 | 22°56 | 10°24 | 11°58 | 29° 1 | 10° 2 | 8°24 | 9°38 | 8°16 | 25°51 | 1°19 | T 27 |
| W28 | 22 24 59 | 4°37'04 | 8 才 14 | 27°19 | 12°51 | 23°34 | 10°28 | 11°57 | 28°59 | 10° 0 | 8°25 | 9°D38 | 8°13 | 25°57 | 1°17 | W28 |
| T 29 | 22 28 56 | 5°35'10 | 21°55 | 26°40 | 14° 5 | 24°13 | 10°32 | 11°57 | 28°57 | 9°59 | 8°26 | 9°39 | 8°10 | 26° 4 | 1°14 | T 29 |
| F 30 | 22 32 52 | 6°33'17 | 5 궁 21 | 26° 8 | 15°18 | 24°52 | 10°36 | 11°56 | 28°55 | 9°57 | 8°27 | 9°R39 | 8° 6 | 26°11 | 1°12 | F 30 |
| S 31 | 22 36 49 | 7 Mp 31'26 | 18 궁 31 | 25 Ω 43 | 16 Ω 32 | 25 Mp 30 | 10 ₮ 40 | 11856 | 28 米 53 | 9≈56 | 89528 | 9 る 39 | 8 ට 3 | 26 Y 17 | 1 Υ 10 | S 31 |

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SEPTEMBER 1675 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | Q | ♂ | 4 | ħ |)Å(| 并 | Р | 'n | ß | Ç | ę, | Day |
|------|----------|------------------|---------------|----------------|----------------|----------------|-----------------|--------|----------------|-------|-------|---------------|----------------|----------------|----------------|------|
| S 1 | 22 40 46 | 8 m/ 29'37 | 1≈29 | 25°R26 | 17 Ω 45 | 26Mp 9 | 10 ∡ 745 | 11°R55 | 28°R50 | 9°R54 | 89529 | 9°R37 | 0 동 8 | 26 Y 24 | 1°R 7 | S 1 |
| M 2 | 22 44 42 | 9°27'49 | 14°14 | 25°D17 | 18°59 | 26°48 | 10°49 | 11854 | 28) 48 | 9≈53 | 8°30 | 9 궁 32 | 7°57 | 26°31 | 1 Υ 4 | M 2 |
| T 3 | 22 48 39 | 10°26'02 | 26°50 | 25 Ω 17 | 20°13 | 27°27 | 10°54 | 11°53 | 28°46 | 9°52 | 8°30 | 9°25 | 7°54 | 26°38 | 1° 2 | T 3 |
| W 4 | 22 52 35 | 11°24'17 | 9) 15 | 25°26 | 21°27 | 28° 6 | 10°59 | 11°52 | 28°44 | 9°50 | 8°31 | 9°15 | 7°51 | 26°44 | 0°59 | W 4 |
| T 5 | 22 56 32 | 12°22'34 | 21°30 | 25°44 | 22°40 | 28°45 | 11° 4 | 11°51 | 28°41 | 9°49 | 8°32 | 9° 4 | 7°47 | 26°51 | 0°57 | T 5 |
| F 6 | 23 0 28 | 13°20'53 | 3 Ƴ 38 | 26°11 | 23°54 | 29°24 | 11°10 | 11°50 | 28°39 | 9°48 | 8°33 | 8°52 | 7°44 | 26°58 | 0°54 | F 6 |
| S 7 | 23 4 25 | 14°19'14 | 15°37 | 26°46 | 25° 8 | 0요 2 | 11°15 | 11°48 | 28°37 | 9°47 | 8°34 | 8°41 | 7°41 | 27° 4 | 0°51 | S 7 |
| S 8 | 23 8 21 | 15°17'37 | 27°31 | 27°30 | 26°22 | 0°41 | 11°21 | 11°47 | 28°34 | 9°45 | 8°34 | 8°30 | 7°38 | 27°11 | 0°49 | S 8 |
| M 9 | 23 12 18 | 16°16'02 | 9 8 22 | 28°22 | 27°36 | 1°21 | 11°27 | 11°45 | 28°32 | 9°44 | 8°35 | 8°22 | 7°35 | 27°18 | 0°46 | M 9 |
| T 10 | 23 16 14 | 17°14'29 | 21°12 | 29°22 | 28°50 | 2° 0 | 11°32 | 11°43 | 28°30 | 9°43 | 8°36 | 8°17 | 7°31 | 27°25 | 0°43 | T 10 |
| W11 | 23 20 11 | 18°12'58 | 3 II 7 | 0 m 28 | 0 m) 4 | 2°39 | 11°39 | 11°42 | 28°27 | 9°42 | 8°36 | 8°14 | 7°28 | 27°31 | 0°41 | W11 |
| T 12 | 23 24 8 | 19°11'29 | 15°11 | 1°42 | 1°18 | 3°18 | 11°45 | 11°40 | 28°25 | 9°40 | 8°37 | 8°D12 | 7°25 | 27°38 | 0°38 | T 12 |
| F 13 | 23 28 4 | 20°10'03 | 27°30 | 3° 1 | 2°32 | 3°57 | 11°51 | 11°38 | 28°23 | 9°39 | 8°38 | 8°12 | 7°22 | 27°45 | 0°35 | F 13 |
| S 14 | 23 32 1 | 21° 8'39 | 1095 7 | 4°25 | 3°47 | 4°36 | 11°58 | 11°36 | 28°20 | 9°38 | 8°38 | 8°R13 | 7°19 | 27°51 | 0°33 | S 14 |
| S 15 | 23 35 57 | 22° 7'17 | 23° 9 | 5°55 | 5° 1 | 5°16 | 12° 4 | 11°33 | 28°18 | 9°37 | 8°39 | 8°12 | 7°16 | 27°58 | 0°30 | S 15 |
| M16 | 23 39 54 | 23° 5'57 | 6 Ω 38 | 7°28 | 6°15 | 5°55 | 12°11 | 11°31 | 28°15 | 9°36 | 8°39 | 8° 9 | 7°12 | 28° 5 | 0°27 | M16 |
| T 17 | 23 43 50 | 24° 4'39 | 20°36 | 9° 5 | 7°29 | 6°34 | 12°18 | 11°29 | 28°13 | 9°35 | 8°40 | 8° 4 | 7° 9 | 28°12 | 0°24 | T 17 |
| W18 | 23 47 47 | 25° 3'24 | 5Mm, 2 | 10°45 | 8°44 | 7°14 | 12°25 | 11°26 | 28°11 | 9°34 | 8°40 | 7°56 | 7° 6 | 28°18 | 0°21 | W18 |
| T 19 | 23 51 43 | 26° 2'10 | 19°51 | 12°27 | 9°58 | 7°53 | 12°33 | 11°24 | 28° 8 | 9°33 | 8°41 | 7°46 | 7° 3 | 28°25 | 0°19 | T 19 |
| F 20 | 23 55 40 | 27° 0'59 | 4 Ω 55 | 14°11 | 11°13 | 8°33 | 12°40 | 11°21 | 28° 6 | 9°32 | 8°41 | 7°35 | 7° 0 | 28°32 | 0°16 | F 20 |
| S 21 | 23 59 37 | 27°59'50 | 20° 5 | 15°57 | 12°27 | 9°12 | 12°48 | 11°18 | 28° 3 | 9°31 | 8°42 | 7°24 | 6°56 | 28°38 | 0°13 | S 21 |
| S 22 | 0 3 33 | 28°58'42 | 5 M 9 | 17°44 | 13°42 | 9°52 | 12°55 | 11°15 | 28° 1 | 9°30 | 8°42 | 7°14 | 6°53 | 28°45 | 0°10 | S 22 |
| M23 | 0 730 | 29°57'36 | 19°58 | 19°32 | 14°56 | 10°32 | 13° 3 | 11°12 | 27°59 | 9°29 | 8°42 | 7° 8 | 6°50 | 28°52 | 0° 7 | M23 |
| T 24 | 0 11 26 | 0 ჲ 56'33 | 4 ₹ 27 | 21°20 | 16°11 | 11°11 | 13°11 | 11° 9 | 27°56 | 9°28 | 8°43 | 7° 3 | 6°47 | 28°59 | 0° 5 | T 24 |
| W25 | 0 15 23 | 1°55'31 | 18°32 | 23° 9 | 17°25 | 11°51 | 13°19 | 11° 6 | 27°54 | 9°27 | 8°43 | 7° 2 | 6°44 | 29° 5 | 0° 2 | W25 |
| T 26 | 0 19 19 | 2°54'30 | 2 ට 13 | 24°57 | 18°40 | 12°31 | 13°27 | 11° 3 | 27°51 | 9°27 | 8°44 | 7° 1 | 6°41 | 29°12 | 29 米 59 | T 26 |
| F 27 | 0 23 16 | 3°53'32 | 15°32 | 26°46 | 19°54 | 13°11 | 13°36 | 11° 0 | 27°49 | 9°26 | 8°44 | 7° 1 | 6°37 | 29°19 | 29°56 | F 27 |
| S 28 | 0 27 12 | 4°52'35 | 28°32 | 28°35 | 21° 9 | 13°50 | 13°44 | 10°56 | 27°47 | 9°25 | 8°44 | 7° 0 | 6°34 | 29°25 | 29°53 | S 28 |
| S 29 | 0 31 9 | 5°51'40 | 11≈15 | 0 <u>ჲ</u> 23 | 22°24 | 14°30 | 13°53 | 10°53 | 27°44 | 9°24 | 8°44 | 6°57 | 6°31 | 29°32 | 29°51 | S 29 |
| M30 | 0 35 6 | 6₽50'46 | 23≈46 | 2 ჲ 10 | 23 m 38 | 15 ≙ 10 | 14 ×7 2 | 10849 | 27) 42 | 9≈24 | 8945 | 6 ප 51 | 6 පි 28 | 29 Y 39 | 29) 48 | M30 |

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Greg. Calendar

OCTOBER 1675 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)Å(| , | Б | U | v | Ç | , k | Day |
|-------------|-------------------|-----------------------------|---------------------------|------------------------|------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-----------------------|------------------------|-----------------------|-------------------------|--------------------------|-------------|
| T 1 W 2 | 0 39 2 0 42 59 | 7 ≙ 49'55 8°49'05 | 6 ¥ 6 18°18 | 3 ≙ 57 5°44 | 24 m/53 26° 8 | 15 ≙ 50 16°30 | 14 ∡ 10 14°19 | 10°R46 10 8 42 | 27°R39 27 ∺ 37 | 9°R23 9 ≈ 22 | 8 9 45 8°45 | 6°R42 6 ⋜ 30 | 6 る 25 6°22 | 29 ° 46 29°52 | 29°R45 29 ¥ 42 | T 1 W 2 |
| T 3 | 0 46 55 | 9°48'18 | 0Υ23 | 7°30 | 27°23 | 17°10 | 14°29 | 10°38 | 27°35 | 9°22 | 8°45 | 6°17 | 6°18 | 29°59 | 29°40 | T 3 |
| F 4 | 0 50 52 | 10°47'32 | 12°22 | 9°15 | 28°38 | 17°50 | 14°38 | 10°34 | 27°32 | 9°21 | 8°45 | 6° 2 | 6°15 | 0 8 6 | 29°37 | F 4 |
| S 5 | 0 54 48 | 11°46'48 | 24°17 | 10°59 | 29°52 | 18°30 | 14°47 | 10°31 | 27°30 | 9°21 | 8°45 | 5°48 | 6°12 | 0°12 | 29°34 | S 5 |
| S 6 | 0 58 45 | 12°46'07 | 6 8 9 | 12°43 | 1 ♀ 7 | 19°11 | 14°57 | 10°27 | 27°28 | 9°20 | 8°45 | 5°35 | 6° 9 | 0°19 | 29°31 | S 6 |
| M 7 | 1 2 41 | 13°45'28 | 17°59 | 14°26 | 2°22 | 19°51 | 15° 6 | 10°23 | 27°25 | 9°20 | 8°46 | 5°25 | 6° 6 | 0°26 | 29°29 | M 7 |
| T 8 W 9 | 1 6 38 1 10 34 | 14°44'51 15°44'16 | 29°50 11 Ⅲ 45 | 16° 8 17°50 | 3°37 4°52 | 20°31 21°11 | 15°16 15°26 | 10°19 10°14 | 27°23 27°21 | 9°19 9°19 | 8°46 8°R46 | 5°18 5°13 | 6° 2 5°59 | 0°33 0°39 | 29°26 29°23 | T 8 W 9 |
| T 10 | 1 14 31 | 16°43'44 | 23°49 | 19°31 | 6° 7 | 21°52 | 15°35 | 10°14 | 27°19 | 9°18 | 8°46 | 5°11 | 5°56 | 0°46 | 29°21 | T 10 |
| F 11 | 1 18 28 | 17°43'14 | 69 5 | 21°11 | 7°22 | 22°32 | 15°45 | 10° 6 | 27°16 | 9°18 | 8°46 | 5°D11 | 5°53 | 0°53 | 29°18 | F 11 |
| S 12 | 1 22 24 | 18°42'46 | 18°38 | 22°51 | 8°37 | 23°13 | 15°55 | 10° 2 | 27°14 | 9°18 | 8°46 | 5°R11 | 5°50 | 0°59 | 29°16 | S 12 |
| S 13 | 1 26 21 | 19°42'21 | 1 Ω 34 | 24°30 | 9°52 | 23°53 | 16° 6 | 9°57 | 27°12 | 9°17 | 8°45 | 5°10 | 5°47 | 1° 6 | 29°13 | S 13 |
| M14 | 1 30 17 | 20°41'57 | 14°57 | 26° 8 | 11° 7 | 24°34 | 16°16 | 9°53 | 27°10 | 9°17 | 8°45 | 5° 8 | 5°43 | 1°13 | 29°10 | M14 |
| T 15 | 1 34 14 | 21°41'36 | 28°49 | 27°45 | 12°22 | 25°14 | 16°26 | 9°48 | 27° 8 | 9°17 | 8°45 | 5° 3 | 5°40 | 1°19 | 29° 8 | T 15 |
| W16 T 17 | 1 38 10 | 22°41'18 23°41'01 | 13 m) 11 28° 0 | 29°22 | 13°37 14°52 | 25°55 26°35 | 16°37 | 9°44 | 27° 6 27° 4 | 9°17 9°16 | 8°45 | 4°56 | 5°37 | 1°26 1°33 | 29° 5 29° 3 | W16 T 17 |
| F 18 | 1 42 7 1 46 3 | 23°41'01 24°40'47 | 13 <u>0</u> 9 | 0 M ₅59 2°34 | 14°52 16° 8 | 26°35 27°16 | 16°47 16°58 | 9°39 9°35 | 27° 4 27° 1 | 9°16 9°16 | 8°45 8°45 | 4°47 4°37 | 5°34 5°31 | 1°33 1°40 | 29° 3 | F 18 |
| S 19 | 1 50 0 | 25°40'35 | 28°29 | 4°10 | 17°23 | 27°57 | 17° 9 | 9°30 | 26°59 | 9°16 | 8°44 | 4°26 | 5°28 | 1°46 | 28°58 | S 19 |
| S 20 | 1 53 57 | 26°40'25 | 13 M .46 | 5°44 | 18°38 | 28°38 | 17°20 | 9°25 | 26°57 | 9°16 | 8°44 | 4°17 | 5°24 | 1°53 | 28°56 | S 20 |
| M21 | 1 57 53 | 27°40'16 | 28°52 | 7°18 | 19°53 | 29°19 | 17°31 | 9°21 | 26°55 | 9°D16 | 8°44 | 4°10 | 5°21 | 2° 0 | 28°53 | M21 |
| T 22 | 2 1 50 | 28°40'10 | 13 × 36 | 8°52 | 21° 8 | 29°59 | 17°42 | 9°16 | 26°54 | 9°16 | 8°44 | 4° 6 | 5°18 | 2° 6 | 28°51 | T 22 |
| W23 T 24 | 2 5 46 2 9 43 | 29°40'05 | 27°54 11 る 44 | 10°25 11°58 | 22°24 23°39 | 0 M. 40 1°21 | 17°53 18°4 | 9°11 9°6 | 26°52 26°50 | 9°16 9°16 | 8°43 | 4°D 5 4° 5 | 5°15 5°12 | 2°13 2°20 | 28°49 28°46 | W23 T 24 |
| F 25 | 2 9 43 2 13 39 | 0 ጤ 40'02 1°40'01 | 25° 7 | 13°30 | 23°39 24°54 | 2° 2 | 18° 4 18°16 | 9° 2 | 26°48 | 9°16 | 8°43 8°43 | 4° 5 | 5° 8 | 2°27 | 28°44 | F 25 |
| S 26 | 2 17 36 | 2°40'01 | 8 ≈ 7 | 15° 1 | 26° 9 | 2°43 | 18°27 | 8°57 | 26°46 | 9°16 | 8°42 | 4°R 5 | 5° 5 | 2°33 | 28°42 | S 26 |
| S 27 | 2 21 32 | 3°40'03 | 20°47 | 16°32 | 27°25 | 3°25 | 18°39 | 8°52 | 26°44 | 9°17 | 8°42 | 4° 4 | 5° 2 | 2°40 | 28°40 | S 27 |
| M28 | 2 25 29 | 4°40'06 | 3 ∺ 10 | 18° 3 | 28°40 | 4° 6 | 18°50 | 8°47 | 26°42 | 9°17 | 8°41 | 4° 0 | 4°59 | 2°47 | 28°37 | M28 |
| T 29 | 2 29 26 | 5°40'11 | 15°22 | 19°33 | 29°55 | 4°47 | 19° 2 | 8°42 | 26°41 | 9°17 | 8°41 | 3°54 | 4°56 | 2°53 | 28°35 | T 29 |
| W30 | 2 33 22 | 6°40'18 | 27°25 | 21° 3 | 1 M .10 | 5°28 | 19°14 | 8°37 | 26°39 | 9°17 | 8°41 | 3°45 | 4°53 | 3° 0 | 28°33 | W30 |
| T 31 | 2 37 19 | 7 M 40'26 | 9 Ƴ 22 | 22 M 32 | 2 M 26 | 6 M 9 | 19 × 25 | 8 8 33 | 26 ∺ 37 | 9≈18 | 89540 | 3 る 35 | 4 る 49 | 3 8 7 | 28) (31 | T 31 |

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NOVEMBER 1675 GC 00:00 UT

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|--------------|--------------------|-------------------------------|------------------------|----------------|----------------------|----------------|-----------------------------|---------------|----------------|--------------|----------------|---------------|---------------|---------------|----------------|--------------|
| F 1 | 2 41 15 | 8M40'36 | 21 Y 16 | 24 M 1 | 3 M .41 | 6 M 51 | 19 × 37 | 8°R28 | 26°R36 | 9≈18 | 8°R40 | 3°R23 | 4 정 46 | 3 8 14 | 28°R29 | F 1 |
| S 2 | 2 45 12 | 9°40'48 | 3 8 8 | 25°29 | 4°56 | 7°32 | 19°49 | 8 8 23 | 26) 34 | 9°18 | 8939 | 3 ⋜ 13 | 4°43 | 3°20 | 28 米 27 | S 2 |
| S 3 | 2 49 8 | 10°41'01 | 15° 0 | 26°57 | 6°12 | 8°14 | 20° 1 | 8°18 | 26°33 | 9°19 | 8°38 | 3° 3 | 4°40 | 3°27 | 28°25 | S 3 |
| M 4 | 2 53 5 | 11°41'16 | 26°53 | 28°24 | 7°27 | 8°55 | 20°13 | 8°13 | 26°31 | 9°19 | 8°38 | 2°55 | 4°37 | 3°34 | 28°24 | M 4 |
| T 5 | 2 57 1 | 12°41'34 | 8 Ⅱ 48 | 29°51 | 8°42 | 9°36 | 20°26 | 8° 8 | 26°30 | 9°20 | 8°37 | 2°50 | 4°33 | 3°40 | 28°22 | T 5 |
| W 6 | 3 0 58 | 13°41'53 | 20°49 | 1 √ 17 | 9°58 | 10°18 | 20°38 | 8° 3 | 26°28 | 9°20 | 8°37 | 2°47 | 4°30 | 3°47 | 28°20 | W 6 |
| T 7 | 3 4 55 | 14°42'14 | 2958 | 2°42 4° 7 | 11°13 | 11° 0 | 20°50 | 7°59 | 26°27 | 9°21 | 8°36 | 2°D46 | 4°27 | 3°54 | 28°18 | T 7 |
| F 8 S 9 | 3 8 51 3 12 48 | 15°42'36 16°43'01 | 15°18 27°53 | 5°31 | 12°29 13°44 | 11°41 12°23 | 21° 2 21°15 | 7°54 7°49 | 26°26 26°24 | 9°21 9°22 | 8°35 8°35 | 2°46 2°48 | 4°24 4°21 | 4° 0 4° 7 | 28°17 28°15 | F 8 S 9 |
| | | | | | _ | | | | | - | | _ | | | | |
| S 10 | 3 16 44 | 17°43'28 | 10 Ω 47 | 6°54 | 14°59 | 13° 5 | 21°27 | 7°44 | 26°23 | 9°23 | 8°34 | 2°49 | 4°18 | 4°14 | 28°13 | S 10 |
| M11 T 12 | 3 20 41 | 18°43'56 | 24° 3 | 8°16 9°37 | 16°15 17°30 | 13°47 14°28 | 21°40 21°53 | 7°40 7°35 | 26°22 26°21 | 9°23 9°24 | 8°33 8°32 | 2°R49 2°47 | 4°14 | 4°21 4°27 | 28°12 28°10 | M11 T 12 |
| W13 | 3 24 37 3 28 34 | 19°44'27 20°44'59 | 7 Mp 45 21°54 | 10°57 | 17°30 18°46 | 14°28 15°10 | 21°53 22° 5 | 7°30 | 26°21 26°20 | 9°24 9°25 | 8°32 | 2°44 | 4°11 4°8 | 4°34 | 28° 10 | W13 |
| T 14 | 3 32 30 | 20°44'39 21°45'33 | 6 <u>Ω</u> 29 | 10°37 | 20° 1 | 15°52 | 22°18 | 7°26 | 26°18 | 9°26 | 8°31 | 2°39 | 4° 5 | 4°41 | 28° 8 | T 14 |
| F 15 | 3 36 27 | 22°46'09 | 21°25 | 13°33 | 21°16 | 16°34 | 22°31 | 7°21 | 26°17 | 9°26 | 8°30 | 2°33 | 4° 2 | 4°47 | 28° 6 | F 15 |
| S 16 | 3 40 24 | 23°46'46 | 6 M .34 | 14°48 | 22°32 | 17°16 | 22°44 | 7°16 | 26°16 | 9°27 | 8°29 | 2°27 | 3°59 | 4°54 | 28° 5 | S 16 |
| S 17 | 3 44 20 | 24°47'25 | 21°48 | 16° 2 | 23°47 | 17°58 | 22°57 | 7°12 | 26°15 | 9°28 | 8°28 | 2°21 | 3°55 | 5° 1 | 28° 4 | S 17 |
| M18 | 3 48 17 | 25°48'06 | 6 ₹ 55 | 17°14 | 25° 3 | 18°40 | 23° 9 | 7° 7 | 26°15 | 9°29 | 8°28 | 2°18 | 3°52 | 5° 7 | 28° 2 | M18 |
| T 19 | 3 52 13 | 26°48'48 | 21°47 | 18°23 | 26°18 | 19°23 | 23°22 | 7° 3 | 26°14 | 9°30 | 8°27 | 2°15 | 3°49 | 5°14 | 28° 1 | T 19 |
| W20 | 3 56 10 | 27°49'32 | 6 ਰ 15 | 19°29 | 27°34 | 20° 5 | 23°36 | 6°58 | 26°13 | 9°31 | 8°26 | 2°D15 | 3°46 | 5°21 | 28° 0 | W20 |
| T 21 | 4 0 6 | 28°50'16 | 20°16 | 20°32 | 28°49 | 20°47 | 23°49 | 6°54 | 26°12 | 9°32 | 8°25 | 2°16 | 3°43 | 5°28 | 27°59 | T 21 |
| F 22 S 23 | 4 4 3 4 7 59 | 29°51'02 0 × 751'48 | 3 ≈ 49 16°56 | 21°32 22°27 | 0 水 5 1°20 | 21°29 22°12 | 24° 2 24°15 | 6°50 6°46 | 26°12 26°11 | 9°33 9°34 | 8°24 8°23 | 2°18 2°19 | 3°39 3°36 | 5°34 5°41 | 27°58 27°57 | F 22 S 23 |
| | | | | | | | | | - | | | _ | | | | |
| S 24 | 4 11 56 | 1°52'36 | 29°40 | 23°18 | 2°36 | 22°54 | 24°28 | 6°41 | 26°10 | 9°35 | 8°22 | 2°R20 | 3°33 | 5°48 | 27°56 | S 24 |
| M25 | 4 15 53 | 2°53'24 | 12) 4 | 24° 3 | 3°51 | 23°37 | 24°41 | 6°37 | 26°10 | 9°36 | 8°21 | 2°20 | 3°30 | 5°54 | 27°56 | M25 |
| T 26 W27 | 4 19 49 4 23 46 | 3°54'13 4°55'04 | 24°14 6 Y 14 | 24°43 25°15 | 5° 7 6°22 | 24°19 25° 2 | 24°55 25° 8 | 6°33 6°29 | 26° 9 26° 9 | 9°38 9°39 | 8°20 8°19 | 2°18 2°15 | 3°27 3°24 | 6° 1 6° 8 | 27°55 27°54 | T 26 W27 |
| T 28 | 4 23 46 4 27 42 | 5°55'55 | 18° 8 | 25°40 | 7°37 | 25° 44 | 25° 8 | 6°25 | 26° 8 | 9°39 9°40 | 8°19 | 2°11 | 3°24 3°20 | 6°15 | 27°54 27°54 | T 28 |
| F 29 | 4 31 39 | 6°56'47 | 29°59 | 25°57 | 8°53 | 26°27 | 25°35 | 6°22 | 26° 8 | 9°41 | 8°17 | 2° 6 | 3°17 | 6°21 | 27°53 | F 29 |
| S 30 | 4 35 35 | 7 ₹ 757'40 | 11850 | 26°R 4 | 10 🗷 8 | 27 M 9 | 25 × ⁷ 48 | 6818 | 26) 8 | 9≈42 | 8 9 316 | 2 ප් 2 | 3 ට 17 | 6828 | 27) 52 | S 30 |

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Greg. Calendar

| DECEMBER 1675 GC | 00:00 UT |
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| Day | Sid.t | 0 | D | ğ | · | ♂ [™] | 4 | ħ |)∤(| ¥ | Б | U | ಬ | Ç | ę, | Day |
| S 1 | 4 39 32 | 8 ₮ 58'34 | 23844 | 26°R 1 | 11 × 124 | 27 M 52 | 26 ₹ 2 | 6°R14 | 26°R 7 | 9≈44 | 8°R15 | 1°R58 | 3 ਰ 11 | 6 8 35 | 27°R52 | S 1 |
| M 2 | 4 43 28 | 9°59'29 | 5 Ⅱ 43 | 25 ∡ 748 | 12°39 | 28°35 | 26°15 | 6810 | 26 ¥ 7 | 9°45 | 89514 | 1 る 55 | 3° 8 | 6°41 | 27 米 52 | M 2 |
| T 3 | 4 47 25 | 11° 0'25 | 17°48 | 25°24 | 13°55 | 29°18 | 26°29 | 6° 7 | 26° 7 | 9°46 | 8°13 | 1°53 | 3° 5 | 6°48 | 27°51 | T 3 |
| W 4 | 4 51 22 | 12° 1'22 | 0ର୍ତ୍ତ 1 | 24°48 | 15°10 | 0 才 1 | 26°42 | 6° 3 | 26° 7 | 9°48 | 8°12 | 1°D52 | 3° 1 | 6°55 | 27°51 | W 4 |
| T 5 | 4 55 18 | 13° 2'21 | 12°23 | 24° 0 | 16°26 | 0°44 | 26°56 | 6° 0 | 26°D 7 | 9°49 | 8°11 | 1°52 | 2°58 | 7° 1 | 27°51 | T 5 |
| F 6 | 4 59 15 | 14° 3'20 | 24°57 | 23° 3 | 17°41 | 1°26 | 27°10 | 5°57 | 26° 7 | 9°51 | 8°10 | 1°53 | 2°55 | 7° 8 | 27°50 | F 6 |
| S 7 | 5 3 11 | 15° 4'20 | 7 Ω 43 | 21°56 | 18°57 | 2° 9 | 27°23 | 5°54 | 26° 7 | 9°52 | 8° 8 | 1°55 | 2°52 | 7°15 | 27°50 | S 7 |
| S 8 | 5 7 8 | 16° 5'21 | 20°45 | 20°41 | 20°12 | 2°52 | 27°37 | 5°50 | 26° 7 | 9°54 | 8° 7 | 1°56 | 2°49 | 7°22 | 27°50 | S 8 |
| M 9 | 5 11 4 | 17° 6'23 | 4 MD 4 | 19°21 | 21°28 | 3°36 | 27°50 | 5°47 | 26° 7 | 9°55 | 8° 6 | 1°57 | 2°45 | 7°28 | 27°D50 | M 9 |
| T 10 | 5 15 1 | 18° 7'26 | 17°42 | 17°58 | 22°43 | 4°19 | 28° 4 | 5°44 | 26° 8 | 9°57 | 8° 5 | 1°R58 | 2°42 | 7°35 | 27°50 | T 10 |
| W11 | 5 18 58 | 19° 8'30 | 1 ≏ 39 | 16°36 | 23°58 | 5° 2 | 28°18 | 5°42 | 26° 8 | 9°58 | 8° 4 | 1°57 | 2°39 | 7°42 | 27°50 | W11 |
| T 12 | 5 22 54 | 20° 9'35 | 15°55 | 15°16 | 25°14 | 5°45 | 28°32 | 5°39 | 26° 8 | 10° 0 | 8° 3 | 1°56 | 2°36 | 7°48 | 27°50 | T 12 |
| F 13 | 5 26 51 | 21°10'42 | 0M29 | 14° 1 | 26°29 | 6°28 | 28°45 | 5°36 | 26° 9 | 10° 2 | 8° 2 | 1°55 | 2°33 | 7°55 | 27°51 | F 13 |
| S 14 | 5 30 47 | 22°11'49 | 15°14 | 12°55 | 27°45 | 7°12 | 28°59 | 5°34 | 26° 9 | 10° 3 | 8° 0 | 1°54 | 2°30 | 8° 2 | 27°51 | S 14 |
| S 15 | 5 34 44 | 23°12'57 | 0 ∡ 7 6 | 11°57 | 29° 0 | 7°55 | 29°13 | 5°31 | 26° 9 | 10° 5 | 7°59 | 1°53 | 2°26 | 8° 8 | 27°51 | S 15 |
| M16 | 5 38 40 | 24°14'05 | 14°56 | 11° 9 | 0 궁 16 | 8°38 | 29°27 | 5°29 | 26°10 | 10° 7 | 7°58 | 1°52 | 2°23 | 8°15 | 27°52 | M16 |
| T 17 | 5 42 37 | 25°15'14 | 2 <u>9</u> °37 | 10°33 | 1°31 | 9°22 | 29°41 | 5°26 | 26°11 | 10° 8 | 7°57 | 1°D52 | 2°20 | 8°22 | 27°52 | T 17 |
| W18 | 5 46 33 | 26°16'24 | 14궁 2 | 10° 7 | 2°47 | 10° 5 | 29°54 | 5°24 | 26°11 | 10°10 | 7°56 | 1°52 | 2°17 | 8°29 | 27°52 | W18 |
| T 19 | 5 50 30 | 27°17'34 | 28° 6 | 9°51 | 4° 2 | 10°49 | 8 중0 | 5°22 | 26°12 | 10°12 | 7°54 | 1°52 | 2°14 | 8°35 | 27°53 | T 19 |
| F 20 | 5 54 27 | 28°18'44 | 11≈45 | 9°D47 | 5°18 | 11°33 | 0°22 | 5°20 | 26°13 | 10°14 | 7°53 | 1°53 | 2°11 | 8°42 | 27°54 | F 20 |
| S 21 | 5 58 23 | 29°19'54 | 24°59 | 9°51 | 6°33 | 12°16 | 0°36 | 5°18 | 26°13 | 10°16 | 7°52 | 1°53 | 2° 7 | 8°49 | 27°54 | S 21 |
| S 22 | 6 2 20 | 0321'04 | 7) €49 | 10° 4 | 7°49 | 13° 0 | 0°50 | 5°17 | 26°14 | 10°17 | 7°51 | 1°53 | 2° 4 | 8°55 | 27°55 | S 22 |
| M23 | 6 6 16 | 1°22'14 | 20°19 | 10°26 | 9° 4 | 13°44 | 1° 4 | 5°15 | 26°15 | 10°19 | 7°49 | 1°53 | 2° 1 | 9° 2 | 27°56 | M23 |
| T 24 | 6 10 13 | 2°23'24 | 2 Υ 32 | 10°55 | 10°19 | 14°27 | 1°17 | 5°13 | 26°16 | 10°21 | 7°48 | 1°53 | 1°58 | 9° 9 | 27°57 | T 24 |
| W25 | 6 14 9 | 3°24'34 | 14°33 | 11°30 | 11°35 | 15°11 | 1°31 | 5°12 | 26°17 | 10°23 | 7°47 | 1°53 | 1°55 | 9°15 | 27°58 | W25 |
| T 26 | 6 18 6 | 4°25'44 | 26°26 | 12°11 | 12°50 | 15°55 | 1°45 | 5°11 | 26°18 | 10°25 | 7°46 | 1°54 | 1°51 | 9°22 | 27°58 | T 26 |
| F 27 S 28 | 6 22 2 6 25 59 | 5°26'54 6°28'04 | 8 8 17 20°8 | 12°58 13°49 | 14° 6 15°21 | 16°39 17°23 | 1°59 2°13 | 5° 9 5° 8 | 26°19 26°20 | 10°27 10°29 | 7°44 7°43 | 1°54 1°54 | 1°48 1°45 | 9°29 9°35 | 27°59 28° 1 | F 27 S 28 |
| | | | | | | | | | | | | | | | | |
| S 29 | 6 29 56 | 7°29'13 | 2 II 5 | 14°44 | 16°36 | 18° 7 | 2°27 | 5° 7 | 26°21 | 10°31 | 7°42 | 1°55 | 1°42 | 9°42 | 28° 2 | S 29 |
| M30 | 6 33 52 | 8°30'22 | 14°10 | 15°43 | 17°52 | 18°51 | 2°40 | 5° 6 | 26°23 | 10°33 | 7°41 | 1°56 | 1°39 | 9°49 | 28° 3 | M30 |
| T 31 | 6 37 49 | 9 る 31'32 | 26∏25 | 16 ₹ 46 | 19 궁 7 | 19 × 35 | 2 궁 54 | 5 8 6 | 26 ∺ 24 | 10≈35 | 7939 | 1°R56 | 1 පි 36 | 9 8 56 | 28) 4 | T 31 |

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JANUARY 1676 GC 00:00 UT

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|------|---------|-------------------|-----------------|-----------------|-------|----------------|---------------|---------------|----------------|-------|--------------|---------------|----------------|----------------|---------------|------|
| W 1 | 6 41 45 | 10 ට 32'41 | 8953 | 17 ×7 51 | 20중23 | 20 × 19 | 3 ろ 8 | 5°R 5 | 26) 25 | 10≈37 | 7°R38 | 1°R56 | 1 る 32 | 10 8 2 | 28 米 5 | W 1 |
| T 2 | 6 45 42 | 11°33'50 | 21°35 | 18°59 | 21°38 | 21° 3 | 3°22 | 5 8 5 | 26°27 | 10°39 | 7937 | 1 る 55 | 1°29 | 10° 9 | 28° 7 | T 2 |
| F 3 | 6 49 38 | 12°34'59 | 4 Ω 30 | 20° 9 | 22°53 | 21°47 | 3°36 | 5° 4 | 26°28 | 10°41 | 7°36 | 1°54 | 1°26 | 10°16 | 28° 8 | F 3 |
| S 4 | 6 53 35 | 13°36'07 | 17°39 | 21°21 | 24° 9 | 22°31 | 3°49 | 5° 4 | 26°30 | 10°43 | 7°34 | 1°53 | 1°23 | 10°22 | 28° 9 | S 4 |
| S 5 | 6 57 31 | 14°37'16 | 1 m) 1 | 22°35 | 25°24 | 23°16 | 4° 3 | 5° 4 | 26°31 | 10°45 | 7°33 | 1°51 | 1°20 | 10°29 | 28°11 | S 5 |
| M 6 | 7 1 28 | 15°38'25 | 14°36 | 23°51 | 26°39 | 24° 0 | 4°17 | 5°D 3 | 26°33 | 10°47 | 7°32 | 1°49 | 1°17 | 10°36 | 28°12 | M 6 |
| T 7 | 7 5 25 | 16°39'33 | 28°22 | 25° 8 | 27°55 | 24°44 | 4°31 | 5° 3 | 26°34 | 10°49 | 7°31 | 1°48 | 1°13 | 10°42 | 28°14 | T 7 |
| W 8 | 7 9 21 | 17°40'41 | 12 ≏ 19 | 26°27 | 29°10 | 25°29 | 4°44 | 5° 4 | 26°36 | 10°51 | 7°30 | 1°D47 | 1°10 | 10°49 | 28°16 | W 8 |
| T 9 | 7 13 18 | 18°41'50 | 26°25 | 27°47 | 0≈25 | 26°13 | 4°58 | 5° 4 | 26°38 | 10°54 | 7°28 | 1°47 | 1° 7 | 10°56 | 28°17 | T 9 |
| F 10 | 7 17 14 | 19°42'58 | 10 M .40 | 29° 8 | 1°40 | 26°57 | 5°12 | 5° 4 | 26°39 | 10°56 | 7°27 | 1°48 | 1° 4 | 11° 2 | 28°19 | F 10 |
| S 11 | 7 21 11 | 20°44'06 | 25° 0 | 0 궁 30 | 2°56 | 27°42 | 5°25 | 5° 5 | 26°41 | 10°58 | 7°26 | 1°49 | 1° 1 | 11° 9 | 28°21 | S 11 |
| S 12 | 7 25 7 | 21°45'14 | 9 ∡ 22 | 1°53 | 4°11 | 28°27 | 5°39 | 5° 5 | 26°43 | 11° 0 | 7°25 | 1°51 | 0°57 | 11°16 | 28°23 | S 12 |
| M13 | 7 29 4 | 22°46'22 | 23°44 | 3°17 | 5°26 | 29°11 | 5°53 | 5° 6 | 26°45 | 11° 2 | 7°23 | 1°52 | 0°54 | 11°23 | 28°25 | M13 |
| T 14 | 7 33 0 | 23°47'29 | 8 궁 0 | 4°42 | 6°42 | 29°56 | 6° 6 | 5° 7 | 26°47 | 11° 4 | 7°22 | 1°R52 | 0°51 | 11°29 | 28°27 | T 14 |
| W15 | 7 36 57 | 24°48'36 | 22° 6 | 6° 8 | 7°57 | 0 天 40 | 6°20 | 5° 8 | 26°49 | 11° 7 | 7°21 | 1°51 | 0°48 | 11°36 | 28°29 | W15 |
| T 16 | 7 40 54 | 25°49'42 | 5≈57 | 7°34 | 9°12 | 1°25 | 6°33 | 5° 9 | 26°51 | 11° 9 | 7°20 | 1°48 | 0°45 | 11°43 | 28°31 | T 16 |
| F 17 | 7 44 50 | 26°50'48 | 19°30 | 9° 2 | 10°27 | 2°10 | 6°47 | 5°10 | 26°53 | 11°11 | 7°19 | 1°45 | 0°42 | 11°49 | 28°33 | F 17 |
| S 18 | 7 48 47 | 27°51'52 | 2 ∺ 43 | 10°30 | 11°42 | 2°55 | 7° 0 | 5°11 | 26°55 | 11°13 | 7°18 | 1°40 | 0°38 | 11°56 | 28°35 | S 18 |
| S 19 | 7 52 43 | 28°52'55 | 15°35 | 11°59 | 12°58 | 3°40 | 7°13 | 5°12 | 26°57 | 11°16 | 7°16 | 1°36 | 0°35 | 12° 3 | 28°37 | S 19 |
| M20 | 7 56 40 | 29°53'58 | 28° 7 | 13°28 | 14°13 | 4°24 | 7°27 | 5°14 | 26°59 | 11°18 | 7°15 | 1°32 | 0°32 | 12° 9 | 28°39 | M20 |
| T 21 | 8 0 36 | 0≈54'59 | 10 Y 23 | 14°58 | 15°28 | 5° 9 | 7°40 | 5°15 | 27° 1 | 11°20 | 7°14 | 1°29 | 0°29 | 12°16 | 28°41 | T 21 |
| W22 | 8 4 33 | 1°55'59 | 22°26 | 16°29 | 16°43 | 5°54 | 7°53 | 5°17 | 27° 4 | 11°22 | 7°13 | 1°27 | 0°26 | 12°23 | 28°44 | W22 |
| T 23 | 8 8 29 | 2°56'59 | 4820 | 18° 1 | 17°58 | 6°39 | 8° 7 | 5°19 | 27° 6 | 11°25 | 7°12 | 1°D26 | 0°23 | 12°29 | 28°46 | T 23 |
| F 24 | 8 12 26 | 3°57'57 | 16°10 | 19°33 | 19°13 | 7°24 | 8°20 | 5°21 | 27° 8 | 11°27 | 7°11 | 1°27 | 0°19 | 12°36 | 28°48 | F 24 |
| S 25 | 8 16 23 | 4°58'53 | 28° 2 | 21° 6 | 20°28 | 8° 9 | 8°33 | 5°23 | 27°11 | 11°29 | 7°10 | 1°29 | 0°16 | 12°43 | 28°51 | S 25 |
| S 26 | 8 20 19 | 5°59'49 | 10耳 0 | 22°39 | 21°43 | 8°54 | 8°46 | 5°25 | 27°13 | 11°31 | 7° 9 | 1°31 | 0°13 | 12°50 | 28°53 | S 26 |
| M27 | 8 24 16 | 7° 0'43 | 22° 8 | 24°14 | 22°58 | 9°39 | 8°59 | 5°27 | 27°16 | 11°34 | 7° 8 | 1°32 | 0°10 | 12°56 | 28°56 | M27 |
| T 28 | 8 28 12 | 8° 1'36 | 4931 | 25°48 | 24°13 | 10°24 | 9°12 | 5°30 | 27°18 | 11°36 | 7° 7 | 1°R32 | 0° 7 | 13° 3 | 28°58 | T 28 |
| W29 | 8 32 9 | 9° 2'28 | 17°12 | 27°24 | 25°28 | 11°10 | 9°25 | 5°32 | 27°21 | 11°38 | 7° 5 | 1°31 | 0° 3 | 13°10 | 29° 1 | W29 |
| T 30 | 8 36 5 | 10° 3'19 | 0 Ω 11 | 29° 0 | 26°43 | 11°55 | 9°38 | 5°35 | 27°23 | 11°40 | 7° 4 | 1°28 | 0° 0 | 13°16 | 29° 4 | T 30 |
| F 31 | 8 40 2 | 11≈ 4'08 | 13 N 30 | 0≈38 | 27≈58 | 12 정 40 | 9 ට 51 | 5 8 37 | 27 ∺ 26 | 11≈43 | 7 9 3 | 1 る 23 | 29 √ 57 | 13 8 23 | 29 米 6 | F 31 |

Delta T = 26.01 sec

Greg. Calendar

FEBRUARY 1676 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | Р | r | Ω | Ç | ď | Day |
|------|----------|-------------------|------------------|----------------|----------------|----------------|----------------|---------------|----------------|-------|----------------|-----------------|----------------|----------------|---------------|------|
| S 1 | 8 43 59 | 12≈ 4'56 | 27 N 5 | 2≈15 | 29≈13 | 13 る 25 | 10ට 4 | 5 8 40 | 27) 28 | 11≈45 | 7°R 2 | 1°R17 | 29 х 54 | 13830 | 29₩ 9 | S 1 |
| S 2 | 8 47 55 | 13° 5'43 | 10 m 56 | 3°54 | 0) €28 | 14°11 | 10°17 | 5°43 | 27°31 | 11°47 | 7 9 5 1 | 1る 9 | 29°51 | 13°36 | 29°12 | S 2 |
| M 3 | 8 51 52 | 14° 6'29 | 24°57 | 5°33 | 1°43 | 14°56 | 10°29 | 5°46 | 27°34 | 11°50 | 7° 1 | 1° 2 | 29°48 | 13°43 | 29°15 | M 3 |
| T 4 | 8 55 48 | 15° 7'14 | 9 ॒ 5 | 7°13 | 2°58 | 15°41 | 10°42 | 5°49 | 27°36 | 11°52 | 7° 0 | 0°57 | 29°44 | 13°50 | 29°17 | T 4 |
| W 5 | 8 59 45 | 16° 7'57 | 23°16 | 8°54 | 4°13 | 16°27 | 10°55 | 5°52 | 27°39 | 11°54 | 6°59 | 0°52 | 29°41 | 13°56 | 29°20 | W 5 |
| T 6 | 9 3 41 | 17° 8'40 | 7 M 26 | 10°36 | 5°28 | 17°12 | 11° 7 | 5°55 | 27°42 | 11°56 | 6°58 | 0°50 | 29°38 | 14° 3 | 29°23 | T 6 |
| F 7 | 9 738 | 18° 9'22 | 21°35 | 12°19 | 6°42 | 17°58 | 11°20 | 5°59 | 27°45 | 11°59 | 6°57 | 0°D50 | 29°35 | 14°10 | 29°26 | F 7 |
| S 8 | 9 11 34 | 19°10'02 | 5 ₹ 40 | 14° 2 | 7°57 | 18°43 | 11°32 | 6° 2 | 27°48 | 12° 1 | 6°56 | 0°50 | 29°32 | 14°16 | 29°29 | S 8 |
| S 9 | 9 15 31 | 20°10'42 | 19°40 | 15°46 | 9°12 | 19°29 | 11°44 | 6° 6 | 27°50 | 12° 3 | 6°55 | 0°52 | 29°29 | 14°23 | 29°32 | S 9 |
| M10 | 9 19 28 | 21°11'20 | 3 ⋜ 35 | 17°32 | 10°27 | 20°14 | 11°57 | 6° 9 | 27°53 | 12° 5 | 6°54 | 0°R52 | 29°25 | 14°30 | 29°35 | M10 |
| T 11 | 9 23 24 | 22°11'57 | 17°22 | 19°18 | 11°41 | 21° 0 | 12° 9 | 6°13 | 27°56 | 12° 8 | 6°53 | 0°51 | 29°22 | 14°37 | 29°38 | T 11 |
| W12 | 9 27 21 | 23°12'33 | 1≈ 1 | 21° 4 | 12°56 | 21°45 | 12°21 | 6°17 | 27°59 | 12°10 | 6°53 | 0°47 | 29°19 | 14°43 | 29°41 | W12 |
| T 13 | 9 31 17 | 24°13'07 | 14°29 | 22°52 | 14°11 | 22°31 | 12°33 | 6°21 | 28° 2 | 12°12 | 6°52 | 0°41 | 29°16 | 14°50 | 29°44 | T 13 |
| F 14 | 9 35 14 | 25°13'40 | 27°44 | 24°41 | 15°25 | 23°17 | 12°45 | 6°25 | 28° 5 | 12°14 | 6°51 | 0°32 | 29°13 | 14°57 | 29°47 | F 14 |
| S 15 | 9 39 10 | 26°14'11 | 10) (44 | 26°30 | 16°40 | 24° 2 | 12°57 | 6°29 | 28° 8 | 12°17 | 6°50 | 0°22 | 29° 9 | 15° 3 | 29°51 | S 15 |
| S 16 | 9 43 7 | 27°14'40 | 23°29 | 28°21 | 17°54 | 24°48 | 13° 9 | 6°33 | 28°11 | 12°19 | 6°49 | 0°11 | 29° 6 | 15°10 | 29°54 | S 16 |
| M17 | 9 47 3 | 28°15'08 | 5 Ƴ 58 | 0 ∺ 12 | 19° 9 | 25°34 | 13°21 | 6°38 | 28°14 | 12°21 | 6°49 | 0° 1 | 29° 3 | 15°17 | 29°57 | M17 |
| T 18 | 9 51 0 | 29°15'34 | 18°12 | 2° 3 | 20°23 | 26°20 | 13°32 | 6°42 | 28°17 | 12°23 | 6°48 | 29 × 752 | 29° 0 | 15°23 | 0 Υ 0 | T 18 |
| W19 | 9 54 56 | 0 光 15′58 | 0814 | 3°56 | 21°38 | 27° 5 | 13°44 | 6°46 | 28°20 | 12°26 | 6°47 | 29°45 | 28°57 | 15°30 | 0° 3 | W19 |
| T 20 | 9 58 53 | 1°16'20 | 12° 8 | 5°49 | 22°52 | 27°51 | 13°55 | 6°51 | 28°24 | 12°28 | 6°47 | 29°41 | 28°54 | 15°37 | 0° 7 | T 20 |
| F 21 | 10 2 50 | 2°16'40 | 23°57 | 7°43 | 24° 7 | 28°37 | 14° 7 | 6°56 | 28°27 | 12°30 | 6°46 | 29°38 | 28°50 | 15°43 | 0°10 | F 21 |
| S 22 | 10 6 46 | 3°16'58 | 5∏47 | 9°37 | 25°21 | 29°23 | 14°18 | 7° 0 | 28°30 | 12°32 | 6°45 | 29°D38 | 28°47 | 15°50 | 0°13 | S 22 |
| S 23 | 10 10 43 | 4°17'14 | 17°44 | 11°31 | 26°35 | 0≈ 9 | 14°30 | 7° 5 | 28°33 | 12°34 | 6°45 | 29°39 | 28°44 | 15°57 | 0°17 | S 23 |
| M24 | 10 14 39 | 5°17'29 | 29°52 | 13°25 | 27°50 | 0°55 | 14°41 | 7°10 | 28°36 | 12°36 | 6°44 | 29°R39 | 28°41 | 16° 3 | 0°20 | M24 |
| T 25 | 10 18 36 | 6°17'41 | 129518 | 15°20 | 29° 4 | 1°41 | 14°52 | 7°15 | 28°39 | 12°38 | 6°44 | 29°38 | 28°38 | 16°10 | 0°24 | T 25 |
| W26 | 10 22 32 | 7°17'51 | 25° 4 | 17°14 | 0 Υ 18 | 2°27 | 15° 3 | 7°20 | 28°43 | 12°41 | 6°43 | 29°35 | 28°35 | 16°17 | 0°27 | W26 |
| T 27 | 10 26 29 | 8°17'59 | 8 Ω 14 | 19° 7 | 1°32 | 3°13 | 15°14 | 7°25 | 28°46 | 12°43 | 6°43 | 29°30 | 28°31 | 16°23 | 0°30 | T 27 |
| F 28 | 10 30 25 | 9°18'05 | 21°48 | 20°59 | 2°46 | 3°59 | 15°25 | 7°30 | 28°49 | 12°45 | 6°42 | 29°22 | 28°28 | 16°30 | 0°34 | F 28 |
| S 29 | 10 34 22 | 10) 18'09 | 5 m /46 | 22 米 50 | 4Υ 1 | 4≈45 | 15 る 35 | 7 8 36 | 28) 53 | 12≈47 | 69542 | 29 × 12 | 28 × 25 | 16 8 37 | 0 Υ 37 | S 29 |

Delta T = 25.96 sec

MARCH 1676 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | Q. | ð | 4 | ħ |)f(| ¥ | Р | N. | v | Ç | ę, | Day |
|------|----------|---------------------|-----------------|------------------|----------------|-------|----------------|----------------|----------------|-------|-------|-----------------|-----------------|----------------|---------------|------|
| S 1 | 10 38 19 | 11) (18'11 | 20 m 2 | 24) (40 | 5 Υ 15 | 5≈31 | 15 る 46 | 7 8 41 | 28) 56 | 12≈49 | 6°R41 | 29°R 1 | 28 才 22 | 16 8 43 | 0 Υ 41 | S 1 |
| M 2 | 10 42 15 | 12°18'11 | 4 ₽ 32 | 26°27 | 6°29 | 6°17 | 15°56 | 7°47 | 28°59 | 12°51 | 69541 | 28 × 749 | 28°19 | 16°50 | 0°44 | M 2 |
| T 3 | 10 46 12 | 13°18'09 | 19°8 | 28°12 | 7°43 | 7° 3 | 16° 7 | 7°52 | 29° 2 | 12°53 | 6°40 | 28°39 | 28°15 | 16°57 | 0°48 | T 3 |
| W 4 | 10 50 8 | 14°18'06 | 3 M .44 | 29°53 | 8°56 | 7°49 | 16°17 | 7°58 | 29° 6 | 12°55 | 6°40 | 28°32 | 28°12 | 17° 3 | 0°51 | W 4 |
| T 5 | 10 54 5 | 15°18'01 | 18°12 | 1 Y 31 | 10°10 | 8°35 | 16°27 | 8° 3 | 29° 9 | 12°57 | 6°40 | 28°27 | 28° 9 | 17°10 | 0°55 | T 5 |
| F 6 | 10 58 1 | 16°17'55 | 2 ₹ 29 | 3° 5 | 11°24 | 9°21 | 16°38 | 8° 9 | 29°13 | 12°59 | 6°39 | 28°24 | 28° 6 | 17°17 | 0°59 | F 6 |
| S 7 | 11 158 | 17°17'47 | 16°34 | 4°35 | 12°38 | 10° 7 | 16°48 | 8°15 | 29°16 | 13° 1 | 6°39 | 28°D24 | 28° 3 | 17°24 | 1° 2 | S 7 |
| S 8 | 11 5 54 | 18°17'37 | 0 궁 25 | 5°59 | 13°52 | 10°53 | 16°58 | 8°21 | 29°19 | 13° 3 | 6°39 | 28°R24 | 28° 0 | 17°30 | 1° 6 | S 8 |
| M 9 | 11 9 51 | 19°17'25 | 14° 3 | 7°18 | 15° 5 | 11°40 | 17° 7 | 8°26 | 29°23 | 13° 5 | 6°38 | 28°23 | 27°56 | 17°37 | 1° 9 | M 9 |
| T 10 | 11 13 48 | 20°17'12 | 27°30 | 8°30 | 16°19 | 12°26 | 17°17 | 8°32 | 29°26 | 13° 7 | 6°38 | 28°21 | 27°53 | 17°44 | 1°13 | T 10 |
| W11 | 11 17 44 | 21°16'57 | 10≈45 | 9°37 | 17°33 | 13°12 | 17°27 | 8°39 | 29°29 | 13° 9 | 6°38 | 28°15 | 27°50 | 17°50 | 1°17 | W11 |
| T 12 | 11 21 41 | 22°16'40 | 23°49 | 10°36 | 18°46 | 13°58 | 17°36 | 8°45 | 29°33 | 13°11 | 6°38 | 28° 7 | 27°47 | 17°57 | 1°20 | T 12 |
| F 13 | 11 25 37 | 23°16'22 | 6) (43 | 11°28 | 20° 0 | 14°44 | 17°45 | 8°51 | 29°36 | 13°12 | 6°38 | 27°56 | 27°44 | 18° 4 | 1°24 | F 13 |
| S 14 | 11 29 34 | 24°16'01 | 19°24 | 12°12 | 21°13 | 15°31 | 17°55 | 8°57 | 29°40 | 13°14 | 6°37 | 27°42 | 27°40 | 18°10 | 1°27 | S 14 |
| S 15 | 11 33 30 | 25°15'38 | 1 Y 55 | 12°49 | 22°27 | 16°17 | 18° 4 | 9° 3 | 29°43 | 13°16 | 6°37 | 27°28 | 27°37 | 18°17 | 1°31 | S 15 |
| M16 | 11 37 27 | 26°15'13 | 14°13 | 13°18 | 23°40 | 17° 3 | 18°13 | 9°10 | 29°47 | 13°18 | 6°37 | 27°15 | 27°34 | 18°24 | 1°35 | M16 |
| T 17 | 11 41 23 | 27°14'46 | 26°21 | 13°39 | 24°54 | 17°49 | 18°21 | 9°16 | 29°50 | 13°20 | 6°37 | 27° 2 | 27°31 | 18°30 | 1°38 | T 17 |
| W18 | 11 45 20 | 28°14'17 | 8 8 19 | 13°51 | 26° 7 | 18°36 | 18°30 | 9°22 | 29°53 | 13°21 | 6°37 | 26°52 | 27°28 | 18°37 | 1°42 | W18 |
| T 19 | 11 49 17 | 29°13'46 | 20°10 | 13°R56 | 27°20 | 19°22 | 18°39 | 9°29 | 29°57 | 13°23 | 6°37 | 26°45 | 27°25 | 18°44 | 1°46 | T 19 |
| F 20 | 11 53 13 | 0 Υ 13'12 | 1 Ⅱ 58 | 13°53 | 28°33 | 20° 8 | 18°47 | 9°36 | 0 Υ 0 | 13°25 | 6°D37 | 26°41 | 27°21 | 18°50 | 1°49 | F 20 |
| S 21 | 11 57 10 | 1°12'37 | 13°47 | 13°43 | 29°46 | 20°55 | 18°56 | 9°42 | 0° 4 | 13°27 | 6°37 | 26°39 | 27°18 | 18°57 | 1°53 | S 21 |
| S 22 | 12 1 6 | 2°11'59 | 25°42 | 13°26 | 1 8 0 | 21°41 | 19° 4 | 9°49 | 0° 7 | 13°28 | 6°37 | 26°39 | 27°15 | 19° 4 | 1°57 | S 22 |
| M23 | 12 5 3 | 3°11'18 | 79548 | 13° 2 | 2°13 | 22°27 | 19°12 | 9°56 | 0°11 | 13°30 | 6°37 | 26°39 | 27°12 | 19°10 | 2° 0 | M23 |
| T 24 | 12 8 59 | 4°10'36 | 20°11 | 12°32 | 3°26 | 23°13 | 19°20 | 10° 2 | 0°14 | 13°32 | 6°37 | 26°38 | 27° 9 | 19°17 | 2° 4 | T 24 |
| W25 | 12 12 56 | 5° 9'51 | 2Ω 56 | 11°57 | 4°38 | 24° 0 | 19°28 | 10° 9 | 0°17 | 13°33 | 6°37 | 26°35 | 27° 6 | 19°24 | 2° 8 | W25 |
| T 26 | 12 16 52 | 6° 9'03 | 16° 7 | 11°17 | 5°51 | 24°46 | 19°35 | 10°16 | 0°21 | 13°35 | 6°37 | 26°30 | 27° 2 | 19°30 | 2°11 | T 26 |
| F 27 | 12 20 49 | 7° 8'13 | 29°46 | 10°33 | 7° 4 | 25°32 | 19°43 | 10°23 | 0°24 | 13°36 | 6°38 | 26°23 | 26°59 | 19°37 | 2°15 | F 27 |
| S 28 | 12 24 46 | 8° 7'21 | 13 m 53 | 9°47 | 8°17 | 26°19 | 19°50 | 10°30 | 0°28 | 13°38 | 6°38 | 26°13 | 26°56 | 19°44 | 2°19 | S 28 |
| S 29 | 12 28 42 | 9° 6'27 | 28°25 | 8°59 | 9°29 | 27° 5 | 19°57 | 10°37 | 0°31 | 13°39 | 6°38 | 26° 2 | 26°53 | 19°50 | 2°22 | S 29 |
| M30 | 12 32 39 | 10° 5'31 | 13 ≏ 16 | 8°10 | 10°42 | 27°51 | 20° 5 | 10°44 | 0°34 | 13°41 | 6°38 | 25°51 | 26°50 | 19°57 | 2°26 | M30 |
| T 31 | 12 36 35 | 11 ° 4'33 | 28 ≏ 15 | 7 Υ 22 | 11 8 55 | 28≈38 | 20중11 | 10 8 51 | 0 Υ 38 | 13≈42 | 6939 | 25 ∡ 741 | 26 ∡ ¹46 | 208 4 | 2 Y 30 | T 31 |

Delta T = 25.91 sec

Greg. Calendar

APRIL 1676 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | Р | v | Ω | Ç | Š | Day |
|------|----------|------------------|-----------------|---------------|----------------|----------------|----------------|----------------|---------------|-------|------|----------------|-----------------|-------|---------------|------|
| W 1 | 12 40 32 | 12 ° 3'32 | 13 M .15 | 6°R35 | 13 8 7 | 29≈24 | 20중18 | 10 8 58 | 0 Υ 41 | 13≈44 | 6939 | 25°R33 | 26 ∡ ¹43 | 20810 | 2 Υ 33 | W 1 |
| T 2 | 12 44 28 | 13° 2'30 | 28° 6 | 5 Ƴ 49 | 14°20 | 0 ₩ 10 | 20°25 | 11° 5 | 0°45 | 13°45 | 6°39 | 25 ₹ 28 | 26°40 | 20°17 | 2°37 | T 2 |
| F 3 | 12 48 25 | 14° 1'26 | 12 ,7 41 | 5° 7 | 15°32 | 0°57 | 20°31 | 11°12 | 0°48 | 13°46 | 6°39 | 25°26 | 26°37 | 20°24 | 2°40 | F 3 |
| S 4 | 12 52 21 | 15° 0'21 | 26°58 | 4°27 | 16°44 | 1°43 | 20°38 | 11°20 | 0°51 | 13°48 | 6°40 | 25°D25 | 26°34 | 20°30 | 2°44 | S 4 |
| S 5 | 12 56 18 | 15°59'14 | 10 궁 54 | 3°52 | 17°56 | 2°29 | 20°44 | 11°27 | 0°55 | 13°49 | 6°40 | 25°R26 | 26°31 | 20°37 | 2°48 | S 5 |
| M 6 | 13 0 14 | 16°58'05 | 24°30 | 3°21 | 19° 9 | 3°15 | 20°50 | 11°34 | 0°58 | 13°50 | 6°41 | 25°25 | 26°27 | 20°44 | 2°51 | M 6 |
| T 7 | 13 4 11 | 17°56'54 | 7≈47 | 2°55 | 20°21 | 4° 2 | 20°56 | 11°41 | 1° 1 | 13°51 | 6°41 | 25°24 | 26°24 | 20°50 | 2°55 | T 7 |
| W 8 | 13 8 8 | 18°55'41 | 20°49 | 2°34 | 21°33 | 4°48 | 21° 2 | 11°49 | 1° 5 | 13°53 | 6°41 | 25°20 | 26°21 | 20°57 | 2°58 | W 8 |
| T 9 | 13 12 4 | 19°54'27 | 3 ∺ 36 | 2°17 | 22°45 | 5°34 | 21° 7 | 11°56 | 1°8 | 13°54 | 6°42 | 25°13 | 26°18 | 21° 4 | 3° 2 | T 9 |
| F 10 | 13 16 1 | 20°53'11 | 16°11 | 2° 7 | 23°57 | 6°21 | 21°13 | 12° 3 | 1°11 | 13°55 | 6°42 | 25° 4 | 26°15 | 21°10 | 3° 5 | F 10 |
| S 11 | 13 19 57 | 21°51'53 | 28°36 | 2° 1 | 25° 8 | 7° 7 | 21°18 | 12°11 | 1°14 | 13°56 | 6°43 | 24°53 | 26°12 | 21°17 | 3° 9 | S 11 |
| S 12 | 13 23 54 | 22°50'33 | 10 Y 51 | 2°D 1 | 26°20 | 7°53 | 21°23 | 12°18 | 1°18 | 13°57 | 6°43 | 24°41 | 26° 8 | 21°24 | 3°12 | S 12 |
| M13 | 13 27 50 | 23°49'11 | 22°58 | 2° 5 | 27°32 | 8°39 | 21°28 | 12°26 | 1°21 | 13°58 | 6°44 | 24°30 | 26° 5 | 21°30 | 3°16 | M13 |
| T 14 | 13 31 47 | 24°47'48 | 4 8 57 | 2°15 | 28°43 | 9°26 | 21°33 | 12°33 | 1°24 | 13°59 | 6°45 | 24°19 | 26° 2 | 21°37 | 3°19 | T 14 |
| W15 | 13 35 43 | 25°46'22 | 16°49 | 2°30 | 29°55 | 10°12 | 21°37 | 12°41 | 1°27 | 14° 0 | 6°45 | 24°11 | 25°59 | 21°44 | 3°23 | W15 |
| T 16 | 13 39 40 | 26°44'55 | 28°38 | 2°49 | 1 I 6 | 10°58 | 21°41 | 12°48 | 1°31 | 14° 1 | 6°46 | 24° 5 | 25°56 | 21°50 | 3°26 | T 16 |
| F 17 | 13 43 37 | 27°43'25 | 10 Ⅱ 25 | 3°13 | 2°18 | 11°44 | 21°46 | 12°56 | 1°34 | 14° 2 | 6°46 | 24° 2 | 25°52 | 21°57 | 3°30 | F 17 |
| S 18 | 13 47 33 | 28°41'53 | 22°14 | 3°41 | 3°29 | 12°30 | 21°50 | 13° 4 | 1°37 | 14° 3 | 6°47 | 24°D 1 | 25°49 | 22° 4 | 3°33 | S 18 |
| S 19 | 13 51 30 | 29°40'20 | 495 9 | 4°14 | 4°40 | 13°17 | 21°54 | 13°11 | 1°40 | 14° 4 | 6°48 | 24° 1 | 25°46 | 22°10 | 3°37 | S 19 |
| M20 | 13 55 26 | 0 8 38'44 | 16°14 | 4°50 | 5°52 | 14° 3 | 21°57 | 13°19 | 1°43 | 14° 5 | 6°48 | 24° 2 | 25°43 | 22°17 | 3°40 | M20 |
| T 21 | 13 59 23 | 1°37'06 | 28°35 | 5°30 | 7° 3 | 14°49 | 22° 1 | 13°26 | 1°46 | 14° 6 | 6°49 | 24°R 3 | 25°40 | 22°24 | 3°43 | T 21 |
| W22 | 14 3 19 | 2°35'26 | 11 Ω 17 | 6°14 | 8°14 | 15°35 | 22° 4 | 13°34 | 1°49 | 14° 7 | 6°50 | 24° 3 | 25°37 | 22°30 | 3°47 | W22 |
| T 23 | 14 7 16 | 3°33'44 | 24°24 | 7° 2 | 9°25 | 16°21 | 22° 7 | 13°42 | 1°52 | 14° 7 | 6°51 | 24° 1 | 25°33 | 22°37 | 3°50 | T 23 |
| F 24 | 14 11 12 | 4°31'59 | 7 m 59 | 7°53 | 10°35 | 17° 7 | 22°10 | 13°49 | 1°55 | 14° 8 | 6°51 | 23°57 | 25°30 | 22°44 | 3°53 | F 24 |
| S 25 | 14 15 9 | 5°30'13 | 22° 3 | 8°47 | 11°46 | 17°53 | 22°13 | 13°57 | 1°58 | 14° 9 | 6°52 | 23°51 | 25°27 | 22°50 | 3°56 | S 25 |
| S 26 | 14 19 6 | 6°28'24 | 6 ₽ 36 | 9°44 | 12°57 | 18°39 | 22°16 | 14° 5 | 2° 1 | 14°10 | 6°53 | 23°44 | 25°24 | 22°57 | 4° 0 | S 26 |
| M27 | 14 23 2 | 7°26'34 | 21°30 | 10°44 | 14° 7 | 19°25 | 22°18 | 14°13 | 2° 4 | 14°10 | 6°54 | 23°37 | 25°21 | 23° 4 | 4° 3 | M27 |
| T 28 | 14 26 59 | 8°24'42 | 6 M .40 | 11°47 | 15°18 | 20°11 | 22°20 | 14°20 | 2° 7 | 14°11 | 6°55 | 23°31 | 25°17 | 23°10 | 4° 6 | T 28 |
| W29 | 14 30 55 | 9°22'48 | 21°53 | 12°53 | 16°28 | 20°57 | 22°23 | 14°28 | 2°10 | 14°11 | 6°56 | 23°26 | 25°14 | 23°17 | 4° 9 | W29 |
| T 30 | 14 34 52 | 10820'53 | 7 ₹ 1 | 14 ° 2 | 17 Ⅱ 38 | 21) 43 | 22 る 24 | 14 8 36 | 2 Υ 13 | 14≈12 | 6957 | 23×23 | 25 × 11 | 23824 | 4 Υ12 | T 30 |

Delta T = 25.86 sec

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|--------------|---------------------|----------------------|------------------------|-----------------------|----------------|----------------|----------------|----------------|---------------|----------------|--------------|-----------------|----------------|----------------|---------------|--------------|
| F 1 | 14 38 48 | 11818'56 | 21 × 755 | 15 Y 13 | 18 Ⅱ 48 | 22) 29 | 22る26 | 14844 | 2 Υ 16 | 14≈12 | 6958 | 23°D22 | 25 ∡ 8 | 23830 | 4 Υ15 | F 1 |
| S 2 | 14 42 45 | 12°16'58 | 6 ප 28 | 16°26 | 19°59 | 23°15 | 22°28 | 14°51 | 2°19 | 14°13 | 6°59 | 23 × 22 | 25° 5 | 23°37 | 4°18 | S 2 |
| S 3 | 14 46 41 | 13°14'58 | 20°36 | 17°42 | 21° 8 | 24° 1 | 22°29 | 14°59 | 2°21 | 14°13 | 6°59 | 23°24 | 25° 2 | 23°44 | 4°21 | S 3 |
| M 4 | 14 50 38 | 14°12'57 | 4≈19 | 19° 1 | 22°18 | 24°47 | 22°30 | 15° 7 | 2°24 | 14°14 | 7° 0 | 23°25 | 24°58 | 23°50 | 4°24 | M 4 |
| T 5 | 14 54 35 | 15°10'55 | 17°39 | 20°22 | 23°28 | 25°32 | 22°31 | 15°15 | 2°27 | 14°14 | 7° 1 | 23°R25 | 24°55 | 23°57 | 4°27 | T 5 |
| W 6 | 14 58 31 | 16° 8'51 | 0 ∺ 37 | 21°45 | 24°38 | 26°18 | 22°32 | 15°22 | 2°30 | 14°14 | 7° 2 | 23°24 | 24°52 | 24° 4 | 4°30 | W 6 |
| T 7 | 15 2 28 | 17° 6'46 | 13°18 | 23°10 | 25°47 | 27° 4 | 22°32 | 15°30 | 2°32 | 14°15 | 7° 3 | 23°21 | 24°49 | 24°10 | 4°33 | T 7 |
| F 8 | 15 6 24 | 18° 4'40 | 25°43 7 ⋎ 56 | 24°38 | 26°57 | 27°50 | 22°33 | 15°38 | 2°35 2°38 | 14°15 14°15 | 7° 5 | 23°17 | 24°46 | 24°17 | 4°36 4°39 | F 8 S 9 |
| S 9 | 15 10 21 | 19° 2'32 | | 26° 8 | 28° 6 | 28°35 | 22°33 | 15°46 | | _ | 7° 6 | 23°12 | 24°43 | 24°24 | | |
| S 10 | 15 14 17 | 20° 0'23 | 20° 0 | 27°40 | 29°15 | 29°21 | 22°R33 | 15°53 | 2°40 | 14°16 | 7° 7 | 23° 6 | 24°39 | 24°30 | 4°42 | S 10 |
| M11 | 15 18 14 | 20°58'13 | 1857 | 29°14 | 09524 | 0Υ 6 | 22°33 | 16° 1 | 2°43 | 14°16 | 7° 8 | 23° 0 | 24°36 | 24°37 | 4°45 | M11 |
| T 12 | 15 22 10 | 21°56'01 22°53'48 | 13°48 25°37 | 0 8 50 2°29 | 1°33 2°42 | 0°52 1°38 | 22°32 22°32 | 16° 9 16°17 | 2°45 2°48 | 14°16 14°16 | 7° 9 7°10 | 22°55 22°51 | 24°33 24°30 | 24°44 24°50 | 4°47 4°50 | T 12 W13 |
| W13 T 14 | 15 26 7 15 30 4 | 23°51'34 | 25°37 7 Ⅲ 25 | 4° 9 | 3°51 | 2°23 | 22°32 22°31 | 16°17 | 2°50 | 14°16 | 7°11 | 22°49 | 24°30 24°27 | 24°57 | 4°53 | T 14 |
| F 15 | 15 34 0 | 24°49'18 | 19°14 | 5°52 | 5° 0 | 3° 9 | 22°30 | 16°32 | 2°53 | 14°16 | 7°12 | 22°D47 | 24°23 | 25° 4 | 4°55 | F 15 |
| S 16 | 15 37 57 | 25°47'01 | 195 7 | 7°37 | 6° 8 | 3°54 | 22°29 | 16°40 | 2°55 | 14°R16 | 7°14 | 22°48 | 24°20 | 25°10 | 4°58 | S 16 |
| S 17 | 15 41 53 | 26°44'43 | 13° 6 | 9°24 | 7°17 | 4°39 | 22°28 | 16°47 | 2°57 | 14°16 | 7°15 | 22°49 | 24°17 | 25°17 | 5° 0 | S 17 |
| M18 | 15 45 50 | 20°44'43 27°42'23 | 25°16 | 11°13 | 8°25 | 5°25 | 22°26 | 16°55 | 3° 0 | 14°16 | 7°16 | 22°50 | 24°14 | 25°24 | 5° 3 | M18 |
| T 19 | 15 49 46 | 28°40'01 | $7\Omega 40$ | 13° 5 | 9°33 | 6°10 | 22°24 | 17° 3 | 3° 2 | 14°16 | 7°17 | 22°52 | 24°11 | 25°30 | 5° 5 | T 19 |
| W20 | 15 53 43 | 29°37'38 | 20°22 | 14°58 | 10°41 | 6°55 | 22°23 | 17°10 | 3° 4 | 14°16 | 7°18 | 22°53 | 24° 8 | 25°37 | 5° 8 | W20 |
| T 21 | 15 57 39 | 0 Ⅲ 35'13 | 3 m 25 | 16°54 | 11°49 | 7°40 | 22°21 | 17°18 | 3° 6 | 14°16 | 7°20 | 22°R53 | 24° 4 | 25°44 | 5°10 | T 21 |
| F 22 | 16 1 36 | 1°32'47 | 16°54 | 18°51 | 12°57 | 8°26 | 22°18 | 17°26 | 3° 9 | 14°16 | 7°21 | 22°53 | 24° 1 | 25°50 | 5°13 | F 22 |
| S 23 | 16 5 33 | 2°30'20 | 0 ჲ 49 | 20°51 | 14° 4 | 9°11 | 22°16 | 17°33 | 3°11 | 14°15 | 7°22 | 22°51 | 23°58 | 25°57 | 5°15 | S 23 |
| S 24 | 16 9 29 | 3°27'51 | 15°11 | 22°53 | 15°12 | 9°56 | 22°13 | 17°41 | 3°13 | 14°15 | 7°23 | 22°49 | 23°55 | 26° 4 | 5°17 | S 24 |
| M25 | 16 13 26 | 4°25'20 | 29°56 | 24°56 | 16°19 | 10°41 | 22°10 | 17°48 | 3°15 | 14°15 | 7°25 | 22°47 | 23°52 | 26°10 | 5°20 | M25 |
| T 26 | 16 17 22 | 5°22'49 | 14 M 59 | 27° 1 | 17°26 | 11°26 | 22° 7 | 17°56 | 3°17 | 14°14 | 7°26 | 22°44 | 23°49 | 26°17 | 5°22 | T 26 |
| W27 | 16 21 19 | 6°20'16 | 0 ₹ 10 | 29° 8 | 18°33 | 12°11 | 22° 4 | 18° 3 | 3°19 | 14°14 | 7°27 | 22°43 | 23°45 | 26°24 | 5°24 | W27 |
| T 28 | 16 25 15 | 7°17'43 | 15°21 | 1 I I16 | 19°39 | 12°56 | 22° 1 | 18°11 | 3°21 | 14°14 | 7°29 | 22°D42 | 23°42 | 26°30 | 5°26 | T 28 |
| F 29 S 30 | 16 29 12 16 33 8 | 8°15'08 9°12'33 | 0 ට 23 15° 6 | 3°25 5°36 | 20°46 21°52 | 13°40 14°25 | 21°57 21°54 | 18°18 18°26 | 3°23 3°24 | 14°13 14°13 | 7°30 7°31 | 22°42 22°43 | 23°39 23°36 | 26°37 26°44 | 5°28 5°30 | F 29 S 30 |
| | | | | | | · · | | | | | | _ | | | | |
| S 31 | 16 37 5 | 10耳 9'57 | 29 궁 26 | 7 Ⅱ 47 | 22959 | 15 Ƴ 10 | 21 궁 50 | 18 8 33 | 3 Υ 26 | 14≈13 | 7933 | 22 × 744 | 23 × 33 | 26850 | 5 Υ 32 | S 31 |

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|------|----------|-------------------|-----------------|-----------------|----------------|----------------|----------------|----------------|---------------|----------------|-------|----------------|----------------|----------------|---------------|------|
| M 1 | 16 41 2 | 11 II 7'20 | 13≈20 | 9 Ц 59 | 2499 5 | 15 Y 54 | 21°R46 | 18 8 41 | 3 Υ 28 | 14°R12 | 7934 | 22 √ 45 | 23 × 29 | 26 8 57 | 5 Υ 34 | M 1 |
| T 2 | 16 44 58 | 12° 4'42 | 26°47 | 12°11 | 25°11 | 16°39 | 21 る 42 | 18°48 | 3°30 | 14≈12 | 7°36 | 22°45 | 23°26 | 27° 4 | 5°36 | T 2 |
| W 3 | 16 48 55 | 13° 2'04 | 9 ∺ 50 | 14°23 | 26°16 | 17°24 | 21°37 | 18°55 | 3°31 | 14°11 | 7°37 | 22°R46 | 23°23 | 27°10 | 5°38 | W 3 |
| T 4 | 16 52 51 | 13°59'25 | 22°30 | 16°35 | 27°22 | 18° 8 | 21°33 | 19° 3 | 3°33 | 14°10 | 7°38 | 22°46 | 23°20 | 27°17 | 5°40 | T 4 |
| F 5 | 16 56 48 | 14°56'46 | 4 Υ53 | 18°46 | 28°27 | 18°53 | 21°28 | 19°10 | 3°35 | 14°10 | 7°40 | 22°45 | 23°17 | 27°24 | 5°41 | F 5 |
| S 6 | 17 0 44 | 15°54'07 | 17° 1 | 20°56 | 29°32 | 19°37 | 21°23 | 19°17 | 3°36 | 14° 9 | 7°41 | 22°44 | 23°14 | 27°30 | 5°43 | S 6 |
| S 7 | 17 441 | 16°51'26 | 28°59 | 23° 6 | 0Ω37 | 20°21 | 21°18 | 19°24 | 3°38 | 14° 8 | 7°43 | 22°44 | 23°10 | 27°37 | 5°45 | S 7 |
| M 8 | 17 8 37 | 17°48'46 | 10850 | 25°14 | 1°41 | 21° 6 | 21°13 | 19°31 | 3°39 | 14° 8 | 7°44 | 22°43 | 23° 7 | 27°44 | 5°46 | M 8 |
| T 9 | 17 12 34 | 18°46'05 | 22°39 | 27°21 | 2°46 | 21°50 | 21° 8 | 19°39 | 3°41 | 14° 7 | 7°45 | 22°42 | 23° 4 | 27°50 | 5°48 | T 9 |
| W10 | 17 16 31 | 19°43'23 | 4 Ⅱ 26 | 29°26 | 3°50 | 22°34 | 21° 3 | 19°46 | 3°42 | 14° 6 | 7°47 | 22°42 | 23° 1 | 27°57 | 5°49 | W10 |
| T 11 | 17 20 27 | 20°40'41 | 16°17 | 19529 | 4°54 | 23°18 | 20°57 | 19°53 | 3°43 | 14° 6 | 7°48 | 22°42 | 22°58 | 28° 4 | 5°51 | T 11 |
| F 12 | 17 24 24 | 21°37'59 | 28°11 | 3°30 | 5°58 | 24° 2 | 20°51 | 20° 0 | 3°45 | 14° 5 | 7°50 | 22°D42 | 22°55 | 28°10 | 5°52 | F 12 |
| S 13 | 17 28 20 | 22°35'16 | 109512 | 5°30 | 7° 1 | 24°46 | 20°45 | 20° 7 | 3°46 | 14° 4 | 7°51 | 22°R42 | 22°51 | 28°17 | 5°54 | S 13 |
| S 14 | 17 32 17 | 23°32'32 | 22°22 | 7°27 | 8° 5 | 25°30 | 20°40 | 20°14 | 3°47 | 14° 3 | 7°53 | 22°42 | 22°48 | 28°24 | 5°55 | S 14 |
| M15 | 17 36 13 | 24°29'48 | 4 Ω 43 | 9°22 | 9° 8 | 26°14 | 20°33 | 20°21 | 3°48 | 14° 2 | 7°54 | 22°42 | 22°45 | 28°30 | 5°56 | M15 |
| T 16 | 17 40 10 | 25°27'03 | 17°17 | 11°16 | 10°10 | 26°58 | 20°27 | 20°28 | 3°49 | 14° 1 | 7°56 | 22°42 | 22°42 | 28°37 | 5°58 | T 16 |
| W17 | 17 44 6 | 26°24'17 | 0Mp 6 | 13° 7 | 11°13 | 27°41 | 20°21 | 20°34 | 3°50 | 14° 0 | 7°57 | 22°41 | 22°39 | 28°44 | 5°59 | W17 |
| T 18 | 17 48 3 | 27°21'31 | 13°13 | 14°55 | 12°15 | 28°25 | 20°14 | 20°41 | 3°51 | 13°59 | 7°59 | 22°41 | 22°35 | 28°50 | 6° 0 | T 18 |
| F 19 | 17 52 0 | 28°18'44 | 26°40 | 16°42 | 13°17 | 29° 8 | 20° 8 | 20°48 | 3°52 | 13°58 | 8° 0 | 22°D41 | 22°32 | 28°57 | 6° 1 | F 19 |
| S 20 | 17 55 56 | 29°15'56 | 10 ≏ 28 | 18°26 | 14°18 | 29°52 | 20° 1 | 20°55 | 3°53 | 13°57 | 8° 2 | 22°41 | 22°29 | 29° 4 | 6° 2 | S 20 |
| S 21 | 17 59 53 | 0913'08 | 24°36 | 20°8 | 15°20 | 0 8 35 | 19°54 | 21° 1 | 3°54 | 13°56 | 8° 3 | 22°41 | 22°26 | 29°10 | 6° 3 | S 21 |
| M22 | 18 3 49 | 1°10'19 | 9 ™ 5 | 21°48 | 16°21 | 1°19 | 19°48 | 21° 8 | 3°55 | 13°55 | 8° 5 | 22°42 | 22°23 | 29°17 | 6° 4 | M22 |
| T 23 | 18 7 46 | 2° 7'30 | 23°49 | 23°25 | 17°21 | 2° 2 | 19°41 | 21°14 | 3°56 | 13°54 | 8° 6 | 22°43 | 22°20 | 29°24 | 6° 5 | T 23 |
| W24 | 18 11 42 | 3° 4'41 | 8 .₹ 144 | 25° 0 | 18°21 | 2°45 | 19°34 | 21°21 | 3°56 | 13°53 | 8° 8 | 22°43 | 22°16 | 29°30 | 6° 5 | W24 |
| T 25 | 18 15 39 | 4° 1'51 | 23°43 | 26°33 | 19°21 | 3°28 | 19°26 | 21°27 | 3°57 | 13°52 | 8° 9 | 22°R43 | 22°13 | 29°37 | 6° 6 | T 25 |
| F 26 | 18 19 36 | 4°59'02 | 8 군 38 | 28° 3 | 20°21 | 4°11 | 19°19 | 21°34 | 3°58 | 13°51 | 8°11 | 22°43 | 22°10 | 29°44 | 6° 7 | F 26 |
| S 27 | 18 23 32 | 5°56'12 | 23°19 | 29°32 | 21°20 | 4°54 | 19°12 | 21°40 | 3°58 | 13°49 | 8°12 | 22°42 | 22° 7 | 29°50 | 6° 8 | S 27 |
| S 28 | 18 27 29 | 6°53'22 | 7≈42 | 0 Ω 58 | 22°19 | 5°37 | 19° 5 | 21°46 | 3°59 | 13°48 | 8°14 | 22°41 | 22° 4 | 29°57 | 6°8 | S 28 |
| M29 | 18 31 25 | 7°50'32 | 21°42 | 2°21 | 23°17 | 6°20 | 1 <u>8</u> °57 | 21°52 | 3°59 | 13°47 | 8°15 | 22°39 | 22° 1 | 0 I 3 | 6° 9 | M29 |
| T 30 | 18 35 22 | 8947'42 | 5 ₩15 | 3 Ω 42 | 24 Ω 15 | 7 8 2 | 18 궁 50 | 21 8 59 | 4 Υ 0 | 13 ≈ 46 | 89917 | 22 × 37 | 21 ~ 57 | 0 I I10 | 6 Ƴ 9 | T 30 |

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| W 1 | 18 39 18 | 99544'53 | 18 ∺ 23 | 5 Ω 1 | 25 Ω 13 | 7 8 45 | 18°R42 | 22 8 5 | 4Υ 0 | 13°R45 | 89518 | 22°R35 | 21 × 754 | 0 Ⅱ 17 | 6 Υ 10 | W 1 |
| T 2 | 18 43 15 | 10°42'04 | 1 ℃ 7 | 6°17 | 26°10 | 8°27 | 18 る 35 | 22°11 | 4° 1 | 13 ≈ 43 | 8°20 | 22 × 34 | 21°51 | 0°23 | 6°10 | T 2 |
| F 3 | 18 47 11 | 11°39'15 | 13°30 | 7°30 | 27° 6 | 9°10 | 18°27 | 22°17 | 4° 1 | 13°42 | 8°21 | 22°D34 | 21°48 | 0°30 | 6°10 | F 3 |
| S 4 | 18 51 8 | 12°36'27 | 25°38 | 8°41 | 28° 3 | 9°52 | 18°19 | 22°23 | 4° 1 | 13°41 | 8°23 | 22°34 | 21°45 | 0°37 | 6°11 | S 4 |
| S 5 | 18 55 5 | 13°33'40 | 7 8 35 | 9°50 | 28°58 | 10°35 | 18°12 | 22°28 | 4° 1 | 13°39 | 8°25 | 22°36 | 21°41 | 0°43 | 6°11 | S 5 |
| M 6 | 18 59 1 | 14°30'52 | 19°25 | 10°55 | 29°54 | 11°17 | 18° 4 | 22°34 | 4° 1 | 13°38 | 8°26 | 22°37 | 21°38 | 0°50 | 6°11 | M 6 |
| T 7 | 19 2 58 | 15°28'05 | 1 Ⅱ 12 | 11°58 | 0 m)48 | 11°59 | 17°56 | 22°40 | 4° 1 | 13°37 | 8°28 | 22°39 | 21°35 | 0°57 | 6°11 | T 7 |
| W 8 | 19 6 54 | 16°25'19 | 13° 2 | 12°58 | 1°43 | 12°41 | 17°49 | 22°46 | 4°R 2 | 13°35 | 8°29 | 22°40 | 21°32 | 1° 3 | 6°11 | W 8 |
| T 9 | 19 10 51 | 17°22'33 | 24°57 | 13°54 | 2°36 | 13°23 | 17°41 | 22°51 | 4° 2 | 13°34 | 8°31 | 22°R40 | 21°29 | 1°10 | 6°R11 | T 9 |
| F 10 | 19 14 47 | 18°19'48 | 7 99 0 | 14°48 | 3°29 | 14° 5 | 17°33 | 22°57 | 4° 1 | 13°32 | 8°32 | 22°39 | 21°26 | 1°17 | 6°11 | F 10 |
| S 11 | 19 18 44 | 19°17'03 | 19°13 | 15°38 | 4°22 | 14°46 | 17°25 | 23° 2 | 4° 1 | 13°31 | 8°34 | 22°37 | 21°22 | 1°23 | 6°11 | S 11 |
| S 12 | 19 22 40 | 20°14'18 | 1 Ω 38 | 16°25 | 5°14 | 15°28 | 17°18 | 23° 8 | 4° 1 | 13°29 | 8°35 | 22°34 | 21°19 | 1°30 | 6°11 | S 12 |
| M13 | 19 26 37 | 21°11'34 | 14°16 | 17° 8 | 6° 5 | 16°10 | 17°10 | 23°13 | 4° 1 | 13°28 | 8°37 | 22°30 | 21°16 | 1°37 | 6°11 | M13 |
| T 14 | 19 30 34 | 22° 8'50 | 27° 8 | 17°48 | 6°56 | 16°51 | 17° 2 | 23°18 | 4° 1 | 13°26 | 8°38 | 22°25 | 21°13 | 1°43 | 6°10 | T 14 |
| W15 | 19 34 30 | 23° 6'07 | 10 m 13 | 18°24 | 7°46 | 17°32 | 16°55 | 23°23 | 4° 1 | 13°25 | 8°40 | 22°21 | 21°10 | 1°50 | 6°10 | W15 |
| T 16 | 19 38 27 | 24° 3'23 | 23°33 | 18°55 | 8°35 | 18°13 | 16°47 | 23°28 | 4° 0 | 13°23 | 8°41 | 22°17 | 21° 7 | 1°57 | 6°10 | T 16 |
| F 17 | 19 42 23 | 25° 0'40 | 7 ♀ 6 | 19°23 | 9°23 | 18°55 | 16°39 | 23°33 | 4° 0 | 13°22 | 8°43 | 22°14 | 21° 3 | 2° 3 | 6° 9 | F 17 |
| S 18 | 19 46 20 | 25°57'57 | 20°53 | 19°46 | 10°11 | 19°36 | 16°32 | 23°38 | 3°59 | 13°20 | 8°44 | 22°D13 | 21° 0 | 2°10 | 6° 9 | S 18 |
| S 19 | 19 50 16 | 26°55'15 | 4 M .54 | 20° 5 | 10°58 | 20°16 | 16°24 | 23°43 | 3°59 | 13°19 | 8°45 | 22°13 | 20°57 | 2°17 | 6° 8 | S 19 |
| M20 | 19 54 13 | 27°52'33 | 19° 7 | 20°19 | 11°44 | 20°57 | 16°17 | 23°48 | 3°58 | 13°17 | 8°47 | 22°14 | 20°54 | 2°23 | 6°8 | M20 |
| T 21 | 19 58 9 | 28°49'52 | 3 ₹ 32 | 20°28 | 12°30 | 21°38 | 16° 9 | 23°53 | 3°58 | 13°16 | 8°48 | 22°15 | 20°51 | 2°30 | 6° 7 | T 21 |
| W22 | 20 2 6 | 29°47'11 | 18° 4 | 20°R33 | 13°14 | 22°19 | 16° 2 | 23°57 | 3°57 | 13°14 | 8°50 | 22°R16 | 20°47 | 2°37 | 6° 6 | W22 |
| T 23 | 20 6 3 | 0 ん 44'30 | 2 ප් 40 | 20°32 | 13°58 | 22°59 | 15°55 | 24° 2 | 3°56 | 13°13 | 8°51 | 22°16 | 20°44 | 2°43 | 6° 6 | T 23 |
| F 24 | 20 9 59 | 1°41'50 | 17°15 | 20°26 | 14°40 | 23°39 | 15°48 | 24° 6 | 3°56 | 13°11 | 8°53 | 22°14 | 20°41 | 2°50 | 6° 5 | F 24 |
| S 25 | 20 13 56 | 2°39'11 | 1≈41 | 20°15 | 15°22 | 24°20 | 15°41 | 24°11 | 3°55 | 13° 9 | 8°54 | 22°10 | 20°38 | 2°56 | 6° 4 | S 25 |
| | 20 17 52 | 3°36'32 | 15°54 | 19°59 | 16° 2 | 25° 0 | 15°34 | 24°15 | 3°54 | 13° 8 | 8°55 | 22° 4 | 20°35 | 3° 3 | 6° 3 | S 26 |
| M27 | 20 21 49 | 4°33'55 | 29°49 | 19°38 | 16°41 | 25°40 | 15°27 | 24°19 | 3°53 | 13° 6 | 8°57 | 21°58 | 20°32 | 3°10 | 6° 2 | M27 |
| T 28 | 20 25 45 | 5°31'18 | 13 ∺ 21 | 19°12 | 17°20 | 26°20 | 15°20 | 24°24 | 3°52 | 13° 5 | 8°58 | 21°51 | 20°28 | 3°16 | 6° 1 | T 28 |
| | 20 29 42 | 6°28'43 | 26°29 | 18°42 | 17°57 | 27° 0 | 15°13 | 24°28 | 3°52 | 13° 3 | 9° 0 | 21°45 | 20°25 | 3°23 | 6° 0 | W29 |
| | 20 33 38 | 7°26'08 | 9 Υ 14 | 18° 7 | 18°33 | 27°39 | 15° 6 | 24°32 | 3°51 | 13° 1 | 9° 1 | 21°40 | 20°22 | 3°30 | 5°59 | T 30 |
| F 31 | 20 37 35 | $8\Omega 23'35$ | 21 Y 40 | 17 Ω 28 | 19 m) 8 | 28 8 19 | 15 る 0 | 24 8 35 | 3 Ƴ 49 | 13≈ 0 | 995 2 | 21 × 736 | 20 ~ 19 | 3 II 36 | 5 Υ 58 | F 31 |

Delta T = 25.71 sec Greg. Calendar

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| Day | Sid.t | \odot | D | φ | φ | o ⁷ | 4 | ħ |)ұ(| ¥ | 2 | ß | Ω | ţ | Š | Day |
|------|----------|------------------|----------------|---------------------|-----------------|----------------|----------------|----------------|---------------|--------|-------|----------------|----------------|---------------|---------------|------|
| S 1 | 20 41 32 | 9 Ω 21′03 | 3 8 48 | 16°R46 | 19 m /41 | 28 8 58 | 14°R53 | 24 8 39 | 3°R48 | 12°R58 | 999 4 | 21°R35 | 20 х 16 | 3 Ⅱ 43 | 5°R57 | S 1 |
| S 2 | 20 45 28 | 10°18'33 | 15°45 | 16 Ω 1 | 20°13 | 29°37 | 14 궁 47 | 24°43 | 3 Ƴ 47 | 12≈57 | 9° 5 | 21°D34 | 20°12 | 3°50 | 5 Ƴ 55 | S 2 |
| M 3 | 20 49 25 | 11°16'04 | 27°35 | 15°15 | 20°44 | 0 П 17 | 14°41 | 24°47 | 3°46 | 12°55 | 9° 6 | 21 ~ 35 | 20° 9 | 3°56 | 5°54 | M 3 |
| T 4 | 20 53 21 | 12°13'36 | 9Ⅱ23 | 14°27 | 21°13 | 0°56 | 14°35 | 24°50 | 3°45 | 12°53 | 9° 8 | 21°37 | 20° 6 | 4° 3 | 5°53 | T 4 |
| W 5 | 20 57 18 | 13°11'10 | 21°15 | 13°38 | 21°41 | 1°35 | 14°29 | 24°54 | 3°44 | 12°52 | 9° 9 | 21°R37 | 20° 3 | 4°10 | 5°51 | W 5 |
| T 6 | 21 1 14 | 14° 8'45 | 39515 | 12°50 | 22° 7 | 2°13 | 14°23 | 24°57 | 3°42 | 12°50 | 9°10 | 21°37 | 20° 0 | 4°16 | 5°50 | T 6 |
| F 7 | 21 5 11 | 15° 6'21 | 15°27 | 12° 4 | 22°32 | 2°52 | 14°17 | 25° 0 | 3°41 | 12°48 | 9°12 | 21°34 | 19°57 | 4°23 | 5°48 | F 7 |
| S 8 | 21 9 7 | 16° 3'59 | 27°53 | 11°20 | 22°55 | 3°31 | 14°12 | 25° 3 | 3°40 | 12°47 | 9°13 | 21°29 | 19°53 | 4°30 | 5°47 | S 8 |
| S 9 | 21 13 4 | 17° 1'38 | 10 Ω 35 | 10°39 | 23°16 | 4° 9 | 14° 6 | 25° 6 | 3°38 | 12°45 | 9°14 | 21°22 | 19°50 | 4°36 | 5°45 | S 9 |
| M10 | 21 17 1 | 17°59'18 | 23°33 | 10° 3 | 23°36 | 4°47 | 14° 1 | 25° 9 | 3°37 | 12°43 | 9°15 | 21°13 | 19°47 | 4°43 | 5°44 | M10 |
| T 11 | 21 20 57 | 18°56'59 | 6 m 48 | 9°31 | 23°54 | 5°25 | 13°56 | 25°12 | 3°35 | 12°42 | 9°17 | 21° 3 | 19°44 | 4°50 | 5°42 | T 11 |
| W12 | 21 24 54 | 19°54'42 | 20°16 | 9° 5 | 24° 9 | 6° 3 | 13°51 | 25°15 | 3°34 | 12°40 | 9°18 | 20°53 | 19°41 | 4°56 | 5°40 | W12 |
| T 13 | 21 28 50 | 20°52'26 | 3 ₾ 57 | 8°46 | 24°23 | 6°41 | 13°46 | 25°18 | 3°32 | 12°39 | 9°19 | 20°45 | 19°38 | 5° 3 | 5°39 | T 13 |
| F 14 | 21 32 47 | 21°50'11 | 17°47 | 8°33 | 24°35 | 7°19 | 13°41 | 25°20 | 3°31 | 12°37 | 9°20 | 20°38 | 19°34 | 5°10 | 5°37 | F 14 |
| S 15 | 21 36 43 | 22°47'57 | 1 M .44 | 8°D27 | 24°45 | 7°56 | 13°37 | 25°23 | 3°29 | 12°35 | 9°21 | 20°34 | 19°31 | 5°16 | 5°35 | S 15 |
| S 16 | 21 40 40 | 23°45'44 | 15°46 | 8°29 | 24°52 | 8°34 | 13°33 | 25°25 | 3°27 | 12°34 | 9°23 | 20°32 | 19°28 | 5°23 | 5°33 | S 16 |
| M17 | 21 44 36 | 24°43'33 | 29°53 | 8°38 | 24°58 | 9°11 | 13°29 | 25°27 | 3°26 | 12°32 | 9°24 | 20°D32 | 19°25 | 5°29 | 5°31 | M17 |
| T 18 | 21 48 33 | 25°41'22 | 14 × 3 | 8°55 | 25° 1 | 9°48 | 13°25 | 25°29 | 3°24 | 12°31 | 9°25 | 20°R33 | 19°22 | 5°36 | 5°29 | T 18 |
| W19 | 21 52 30 | 26°39'13 | 28°15 | 9°20 | 25°R 1 | 10°25 | 13°21 | 25°31 | 3°22 | 12°29 | 9°26 | 20°33 | 19°18 | 5°43 | 5°27 | W19 |
| T 20 | 21 56 26 | 27°37'05 | 12 る 26 | 9°53 | 25° 0 | 11° 1 | 13°17 | 25°33 | 3°20 | 12°27 | 9°27 | 20°31 | 19°15 | 5°49 | 5°25 | T 20 |
| F 21 | 22 0 23 | 28°34'59 | 26°35 | 10°33 | 24°56 | 11°38 | 13°14 | 25°35 | 3°19 | 12°26 | 9°28 | 20°27 | 19°12 | 5°56 | 5°23 | F 21 |
| S 22 | 22 4 19 | 29°32'53 | 10≈38 | 11°21 | 24°50 | 12°14 | 13°10 | 25°37 | 3°17 | 12°24 | 9°29 | 20°20 | 19° 9 | 6° 3 | 5°21 | S 22 |
| S 23 | 22 8 16 | 0 m 30'49 | 24°31 | 12°16 | 24°41 | 12°50 | 13° 7 | 25°39 | 3°15 | 12°23 | 9°30 | 20°10 | 19° 6 | 6° 9 | 5°19 | S 23 |
| M24 | 22 12 12 | 1°28'47 | 8) 9 | 13°18 | 24°30 | 13°26 | 13° 4 | 25°40 | 3°13 | 12°21 | 9°31 | 19°59 | 19° 3 | 6°16 | 5°17 | M24 |
| T 25 | 22 16 9 | 2°26'46 | 21°30 | 14°27 | 24°17 | 14° 2 | 13° 2 | 25°42 | 3°11 | 12°20 | 9°32 | 19°48 | 18°59 | 6°23 | 5°14 | T 25 |
| W26 | 22 20 5 | 3°24'47 | 4Υ 31 | 15°42 | 24° 1 | 14°38 | 12°59 | 25°43 | 3° 9 | 12°18 | 9°33 | 19°37 | 18°56 | 6°29 | 5°12 | W26 |
| T 27 | 22 24 2 | 4°22'50 | 17°12 | 17° 3 | 23°43 | 15°14 | 12°57 | 25°44 | 3° 7 | 12°17 | 9°34 | 19°27 | 18°53 | 6°36 | 5°10 | T 27 |
| F 28 | 22 27 59 | 5°20'54 | 29°35 | 18°29 | 23°22 | 15°49 | 12°54 | 25°45 | 3° 5 | 12°15 | 9°35 | 19°20 | 18°50 | 6°43 | 5° 8 | F 28 |
| S 29 | 22 31 55 | 6°19'01 | 11843 | 20° 0 | 23° 0 | 16°24 | 12°52 | 25°46 | 3° 3 | 12°14 | 9°36 | 19°15 | 18°47 | 6°49 | 5° 5 | S 29 |
| S 30 | 22 35 52 | 7°17'10 | 23°39 | 21°36 | 22°35 | 16°59 | 12°51 | 25°47 | 3° 1 | 12°12 | 9°37 | 19°13 | 18°44 | 6°56 | 5° 3 | S 30 |
| M31 | 22 39 48 | 8 Mp 15'20 | 5 Ⅱ 29 | 23 \Omega 15 | 22 Mg 8 | 17 Ⅲ 34 | 12 る 49 | 25 8 48 | 2 Υ 59 | 12≈11 | 9938 | 19°D12 | 18 ₮ 40 | 7 I 3 | 5 ℃ 1 | M31 |

Delta T = 25.66 sec Greg. Calendar

SEPTEMBER 1676 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)Å(| ¥ | В | n | v | Ç | Q K | Day |
|------|----------|------------------|-----------------|---------------|----------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|----------------|---------------|------|
| T 1 | 22 43 45 | 9 m 13'33 | 17 Ⅱ 18 | 24€58 | 21°R40 | 18 I I 8 | 12°R48 | 25 8 49 | 2°R57 | 12°R10 | 9 93 9 | 19°R12 | 18 ∡ 37 | 7 I 9 | 4°R58 | T 1 |
| W 2 | 22 47 41 | 10°11'47 | 29°10 | 26°44 | 21 Mp 10 | 18°43 | 12 る 46 | 25°49 | 2 Υ 54 | 12≈ 8 | 9°40 | 19 × 12 | 18°34 | 7°16 | 4 Υ 56 | W 2 |
| T 3 | 22 51 38 | 11°10'04 | 119513 | 28°31 | 20°38 | 19°17 | 12°45 | 25°50 | 2°52 | 12° 7 | 9°40 | 19°10 | 18°31 | 7°22 | 4°53 | T 3 |
| F 4 | 22 55 34 | 12° 8'23 | 23°30 | 0 m 21 | 20° 5 | 19°51 | 12°44 | 25°50 | 2°50 | 12° 5 | 9°41 | 19° 6 | 18°28 | 7°29 | 4°51 | F 4 |
| S 5 | 22 59 31 | 13° 6'44 | 6 N 5 | 2°12 | 19°31 | 20°25 | 12°44 | 25°50 | 2°48 | 12° 4 | 9°42 | 19° 0 | 18°24 | 7°36 | 4°48 | S 5 |
| S 6 | 23 3 28 | 14° 5'06 | 19° 0 | 4° 5 | 18°55 | 20°58 | 12°43 | 25°51 | 2°46 | 12° 3 | 9°43 | 18°51 | 18°21 | 7°42 | 4°46 | S 6 |
| M 7 | 23 7 24 | 15° 3'31 | 2 Mp 17 | 5°58 | 18°19 | 21°32 | 12°43 | 25°R51 | 2°43 | 12° 1 | 9°44 | 18°39 | 18°18 | 7°49 | 4°43 | M 7 |
| T 8 | 23 11 21 | 16° 1'57 | 15°54 | 7°51 | 17°43 | 22° 5 | 12°D43 | 25°51 | 2°41 | 12° 0 | 9°44 | 18°27 | 18°15 | 7°56 | 4°40 | T 8 |
| W 9 | 23 15 17 | 17° 0'26 | 29°48 | 9°45 | 17° 6 | 22°38 | 12°43 | 25°50 | 2°39 | 11°59 | 9°45 | 18°15 | 18°12 | 8° 2 | 4°38 | W 9 |
| T 10 | 23 19 14 | 17°58'56 | 13 ≏ 54 | 11°39 | 16°29 | 23°10 | 12°43 | 25°50 | 2°36 | 11°58 | 9°46 | 18° 4 | 18° 9 | 8° 9 | 4°35 | T 10 |
| F 11 | 23 23 10 | 18°57'28 | 28° 9 | 13°32 | 15°52 | 23°43 | 12°44 | 25°50 | 2°34 | 11°56 | 9°46 | 17°55 | 18° 5 | 8°16 | 4°32 | F 11 |
| S 12 | 23 27 7 | 19°56'02 | 12 M 26 | 15°25 | 15°16 | 24°15 | 12°45 | 25°49 | 2°32 | 11°55 | 9°47 | 17°50 | 18° 2 | 8°22 | 4°30 | S 12 |
| S 13 | 23 31 3 | 20°54'37 | 26°41 | 17°18 | 14°40 | 24°47 | 12°45 | 25°49 | 2°29 | 11°54 | 9°48 | 17°47 | 17°59 | 8°29 | 4°27 | S 13 |
| M14 | 23 35 0 | 21°53'15 | 10 × 753 | 19°10 | 14° 5 | 25°19 | 12°47 | 25°48 | 2°27 | 11°53 | 9°48 | 17°46 | 17°56 | 8°36 | 4°24 | M14 |
| T 15 | 23 38 56 | 22°51'53 | 25° 0 | 21° 1 | 13°31 | 25°50 | 12°48 | 25°47 | 2°25 | 11°52 | 9°49 | 17°46 | 17°53 | 8°42 | 4°22 | T 15 |
| W16 | 23 42 53 | 23°50'34 | 9 ろ 0 | 22°52 | 12°59 | 26°21 | 12°49 | 25°46 | 2°22 | 11°51 | 9°49 | 17°45 | 17°50 | 8°49 | 4°19 | W16 |
| T 17 | 23 46 50 | 24°49'16 | 22°53 | 24°41 | 12°28 | 26°52 | 12°51 | 25°45 | 2°20 | 11°49 | 9°50 | 17°43 | 17°46 | 8°56 | 4°16 | T 17 |
| F 18 | 23 50 46 | 25°48'00 | 6≈40 | 26°30 | 11°58 | 27°23 | 12°53 | 25°44 | 2°17 | 11°48 | 9°51 | 17°38 | 17°43 | 9° 2 | 4°13 | F 18 |
| S 19 | 23 54 43 | 26°46'46 | 20°17 | 28°18 | 11°31 | 27°53 | 12°55 | 25°43 | 2°15 | 11°47 | 9°51 | 17°31 | 17°40 | 9° 9 | 4°11 | S 19 |
| S 20 | 23 58 39 | 27°45'33 | 3) €45 | 0 <u> </u> | 11° 5 | 28°23 | 12°57 | 25°41 | 2°13 | 11°46 | 9°52 | 17°20 | 17°37 | 9°15 | 4° 8 | S 20 |
| M21 | 0 2 36 | 28°44'22 | 17° 1 | 1°51 | 10°42 | 28°53 | 12°59 | 25°40 | 2°10 | 11°45 | 9°52 | 17° 8 | 17°34 | 9°22 | 4° 5 | M21 |
| T 22 | 0 6 32 | 29°43'13 | 0 Υ 3 | 3°36 | 10°20 | 29°23 | 13° 2 | 25°38 | 2° 8 | 11°44 | 9°52 | 16°56 | 17°30 | 9°29 | 4° 2 | T 22 |
| W23 | 0 10 29 | 0 ჲ 42'06 | 12°49 | 5°20 | 10° 1 | 29°52 | 13° 5 | 25°36 | 2° 5 | 11°43 | 9°53 | 16°43 | 17°27 | 9°35 | 3°59 | W23 |
| T 24 | 0 14 25 | 1°41'02 | 25°21 | 7° 3 | 9°44 | 09୍ଦ21 | 13° 8 | 25°35 | 2° 3 | 11°43 | 9°53 | 16°33 | 17°24 | 9°42 | 3°57 | T 24 |
| F 25 | 0 18 22 | 2°39'59 | 7 8 37 | 8°45 | 9°30 | 0°50 | 13°11 | 25°33 | 2° 1 | 11°42 | 9°54 | 16°24 | 17°21 | 9°49 | 3°54 | F 25 |
| S 26 | 0 22 19 | 3°38'59 | 19°41 | 10°27 | 9°18 | 1°18 | 13°14 | 25°31 | 1°58 | 11°41 | 9°54 | 16°19 | 17°18 | 9°55 | 3°51 | S 26 |
| S 27 | 0 26 15 | 4°38'01 | 1 Ⅲ 35 | 12° 8 | 9° 9 | 1°46 | 13°18 | 25°29 | 1°56 | 11°40 | 9°54 | 16°16 | 17°15 | 10° 2 | 3°48 | S 27 |
| M28 | 0 30 12 | 5°37'05 | 13°23 | 13°47 | 9° 2 | 2°14 | 13°22 | 25°27 | 1°53 | 11°39 | 9°54 | 16°D14 | 17°11 | 10° 9 | 3°45 | M28 |
| T 29 | 0 34 8 | 6°36'12 | 25°10 | 15°26 | 8°57 | 2°42 | 13°25 | 25°24 | 1°51 | 11°38 | 9°55 | 16°15 | 17° 8 | 10°15 | 3°43 | T 29 |
| W30 | 0 38 5 | 7 ≏ 35'21 | 799 2 | 17 ♀ 4 | 8°D55 | 3 9 9 | 13 る 29 | 25 8 22 | 1 Ƴ 49 | 11 ≈ 38 | 9 9 55 | 16°R15 | 17 ⁄7 5 | 10 Ⅱ 22 | 3 Υ40 | W30 |

Delta T = 25.61 sec

Greg. Calendar

OCTOBER 1676 GC 00:00 UT

| Day | Sid.t | 0 | D | Ψ | · | S | 4 | ħ | ᡟ | ¥ | Р | ß | S | ţ | %٥ | Day |
|------|---------|------------------|----------------|----------------|----------------|--------|----------------|----------------|---------------|----------------|-------|----------------|----------------|----------------|---------------|------|
| T 1 | 0 42 1 | 8 ≏ 34'32 | 1995 4 | 18 ≏ 42 | 8 m 56 | 3935 | 13 る 34 | 25°R19 | 1°R46 | 11°R37 | 9955 | 16°R14 | 17 ₹ 2 | 10 Ⅱ 29 | 3°R37 | T 1 |
| F 2 | 0 45 58 | 9°33'46 | 1 N 21 | 20°18 | 8°58 | 4° 2 | 13°38 | 25 8 17 | 1 Y 44 | 11 ≈ 36 | 9°55 | 16 ∡ 12 | 16°59 | 10°35 | 3 Ƴ 34 | F 2 |
| S 3 | 0 49 54 | 10°33'01 | 13°59 | 21°54 | 9° 3 | 4°28 | 13°43 | 25°14 | 1°41 | 11°36 | 9°56 | 16° 8 | 16°55 | 10°42 | 3°32 | S 3 |
| S 4 | 0 53 51 | 11°32'19 | 26°59 | 23°29 | 9°11 | 4°54 | 13°47 | 25°11 | 1°39 | 11°35 | 9°56 | 16° 1 | 16°52 | 10°48 | 3°29 | S 4 |
| M 5 | 0 57 48 | 12°31'40 | 10 m 26 | 25° 3 | 9°20 | 5°19 | 13°52 | 25° 9 | 1°37 | 11°34 | 9°56 | 15°52 | 16°49 | 10°55 | 3°26 | M 5 |
| T 6 | 1 1 44 | 13°31'02 | 24°17 | 26°37 | 9°32 | 5°44 | 13°58 | 25° 6 | 1°34 | 11°34 | 9°56 | 15°41 | 16°46 | 11° 2 | 3°23 | T 6 |
| W 7 | 1 5 41 | 14°30'27 | 8 亞 30 | 28°10 | 9°46 | 6° 9 | 14° 3 | 25° 3 | 1°32 | 11°33 | 9°56 | 15°31 | 16°43 | 11° 8 | 3°20 | W 7 |
| T 8 | 1 9 37 | 15°29'54 | 23° 1 | 29°42 | 10° 2 | 6°33 | 14° 8 | 24°59 | 1°30 | 11°33 | 9°56 | 15°22 | 16°40 | 11°15 | 3°18 | T 8 |
| F 9 | 1 13 34 | 16°29'23 | 7 M .41 | 1 M 13 | 10°20 | 6°57 | 14°14 | 24°56 | 1°27 | 11°32 | 9°56 | 15°15 | 16°36 | 11°22 | 3°15 | F 9 |
| S 10 | 1 17 30 | 17°28'54 | 22°23 | 2°44 | 10°39 | 7°20 | 14°20 | 24°53 | 1°25 | 11°32 | 9°R56 | 15°10 | 16°33 | 11°28 | 3°12 | S 10 |
| S 11 | 1 21 27 | 18°28'26 | 7 √ 1 | 4°14 | 11° 1 | 7°43 | 14°26 | 24°50 | 1°23 | 11°31 | 9°56 | 15° 8 | 16°30 | 11°35 | 3°10 | S 11 |
| M12 | 1 25 23 | 19°28'01 | 21°30 | 5°43 | 11°24 | 8° 6 | 14°32 | 24°46 | 1°20 | 11°31 | 9°56 | 15°D 8 | 16°27 | 11°42 | 3° 7 | M12 |
| T 13 | 1 29 20 | 20°27'37 | 5 궁 46 | 7°12 | 11°50 | 8°28 | 14°38 | 24°43 | 1°18 | 11°31 | 9°56 | 15° 9 | 16°24 | 11°48 | 3° 4 | T 13 |
| W14 | 1 33 17 | 21°27'16 | 19°47 | 8°40 | 12°17 | 8°49 | 14°45 | 24°39 | 1°16 | 11°30 | 9°56 | 15°R10 | 16°21 | 11°55 | 3° 2 | W14 |
| T 15 | 1 37 13 | 22°26'55 | 3≈34 | 10° 7 | 12°45 | 9°10 | 14°51 | 24°35 | 1°14 | 11°30 | 9°56 | 15° 9 | 16°17 | 12° 2 | 2°59 | T 15 |
| F 16 | 1 41 10 | 23°26'37 | 17° 6 | 11°34 | 13°15 | 9°31 | 14°58 | 24°31 | 1°12 | 11°30 | 9°56 | 15° 7 | 16°14 | 12° 8 | 2°57 | F 16 |
| S 17 | 1 45 6 | 24°26'20 | 0 ∺ 25 | 13° 0 | 13°47 | 9°51 | 15° 5 | 24°28 | 1° 9 | 11°30 | 9°55 | 15° 2 | 16°11 | 12°15 | 2°54 | S 17 |
| S 18 | 1 49 3 | 25°26'05 | 13°31 | 14°25 | 14°20 | 10°11 | 15°12 | 24°24 | 1° 7 | 11°29 | 9°55 | 14°55 | 16° 8 | 12°22 | 2°51 | S 18 |
| M19 | 1 52 59 | 26°25'51 | 26°24 | 15°49 | 14°55 | 10°31 | 15°19 | 24°20 | 1° 5 | 11°29 | 9°55 | 14°47 | 16° 5 | 12°28 | 2°49 | M19 |
| T 20 | 1 56 56 | 27°25'40 | 9 ⋎ 5 | 17°13 | 15°30 | 10°49 | 15°26 | 24°16 | 1° 3 | 11°29 | 9°55 | 14°38 | 16° 1 | 12°35 | 2°46 | T 20 |
| W21 | 2 0 52 | 28°25'30 | 21°34 | 18°35 | 16° 8 | 11° 8 | 15°34 | 24°12 | 1° 1 | 11°29 | 9°55 | 14°29 | 15°58 | 12°41 | 2°44 | W21 |
| T 22 | 2 4 49 | 29°25'22 | 3 8 52 | 19°57 | 16°46 | 11°25 | 15°42 | 24° 7 | 0°59 | 11°29 | 9°54 | 14°22 | 15°55 | 12°48 | 2°42 | T 22 |
| F 23 | 2 8 45 | 0 M 25'17 | 15°58 | 21°17 | 17°26 | 11°43 | 15°49 | 24° 3 | 0°57 | 11°D29 | 9°54 | 14°16 | 15°52 | 12°55 | 2°39 | F 23 |
| S 24 | 2 12 42 | 1°25'13 | 27°56 | 22°37 | 18° 7 | 11°59 | 15°57 | 23°59 | 0°55 | 11°29 | 9°54 | 14°12 | 15°49 | 13° 1 | 2°37 | S 24 |
| S 25 | 2 16 39 | 2°25'11 | 9 Ⅱ 46 | 23°55 | 18°49 | 12°16 | 16° 5 | 23°54 | 0°53 | 11°29 | 9°53 | 14°D11 | 15°46 | 13° 8 | 2°34 | S 25 |
| M26 | 2 20 35 | 3°25'12 | 21°33 | 25°12 | 19°32 | 12°31 | 16°14 | 23°50 | 0°51 | 11°29 | 9°53 | 14°11 | 15°42 | 13°15 | 2°32 | M26 |
| T 27 | 2 24 32 | 4°25'15 | 39520 | 26°28 | 20°16 | 12°46 | 16°22 | 23°46 | 0°49 | 11°29 | 9°53 | 14°12 | 15°39 | 13°21 | 2°30 | T 27 |
| W28 | 2 28 28 | 5°25'19 | 15°11 | 27°42 | 21° 2 | 13° 1 | 16°30 | 23°41 | 0°47 | 11°30 | 9°52 | 14°14 | 15°36 | 13°28 | 2°28 | W28 |
| T 29 | 2 32 25 | 6°25'26 | 27°11 | 28°55 | 21°48 | 13°14 | 16°39 | 23°37 | 0°45 | 11°30 | 9°52 | 14°15 | 15°33 | 13°35 | 2°25 | T 29 |
| F 30 | 2 36 21 | 7°25'35 | 9Ω26 | 0 ≯ 6 | 22°35 | 13°28 | 16°48 | 23°32 | 0°44 | 11°30 | 9°51 | 14°R16 | 15°30 | 13°41 | 2°23 | F 30 |
| S 31 | 2 40 18 | 8M25'46 | 22 N 0 | 1 √ 14 | 23 m 23 | 139540 | 16 ප 57 | 23 8 27 | 0 Υ 42 | 11≈30 | 9951 | 14 × 15 | 15 ₹ 27 | 13 Ⅱ 48 | 2 Υ 21 | S 31 |

Delta T = 25.56 sec

NOVEMBER 1676 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| 并 | Р | ß | v | Ç | o k | Day |
|------|---------|-------------------------------|----------------|----------------|----------------|--------|----------------|--------|---------------|-------|---------------|-----------------|-----------------|----------------|---------------|------|
| S 1 | 2 44 14 | 9M25'59 | 4 m 57 | 2 √ 21 | 24 Mp 12 | 13952 | 17ට 6 | 23°R23 | 0°R40 | 11≈31 | 9°R50 | 14°R12 | 15 ₹ 23 | 13 Ⅱ 55 | 2°R19 | S 1 |
| M 2 | 2 48 11 | 10°26'14 | 18°21 | 3°25 | 25° 2 | 14° 3 | 17°15 | 23818 | 0 Υ 38 | 11°31 | 9950 | 14 ×7 8 | 15°20 | 14° 1 | 2 Υ 17 | M 2 |
| T 3 | 2 52 8 | 11°26'31 | 2 ≏ 14 | 4°26 | 25°53 | 14°14 | 17°24 | 23°13 | 0°37 | 11°31 | 9°49 | 14° 3 | 15°17 | 14° 8 | 2°15 | T 3 |
| W 4 | 2 56 4 | 12°26'50 | 16°33 | 5°23 | 26°44 | 14°24 | 17°34 | 23° 9 | 0°35 | 11°32 | 9°49 | 13°58 | 15°14 | 14°14 | 2°13 | W 4 |
| T 5 | 3 0 1 | 13°27'11 | 1 m 14 | 6°18 | 27°36 | 14°33 | 17°43 | 23° 4 | 0°33 | 11°32 | 9°48 | 13°54 | 15°11 | 14°21 | 2°11 | T 5 |
| F 6 | 3 3 57 | 14°27'34 | 16°11 | 7° 8 | 28°29 | 14°42 | 17°53 | 22°59 | 0°32 | 11°32 | 9°47 | 13°50 | 15° 7 | 14°28 | 2° 9 | F 6 |
| S 7 | 3 7 54 | 15°27'59 | 1 √ 15 | 7°53 | 29°23 | 14°49 | 18° 3 | 22°54 | 0°30 | 11°33 | 9°47 | 13°48 | 15° 4 | 14°34 | 2° 7 | S 7 |
| S 8 | 3 11 50 | 16°28'25 | 16°17 | 8°34 | 0 ჲ 17 | 14°57 | 18°13 | 22°49 | 0°29 | 11°34 | 9°46 | 13°D48 | 15° 1 | 14°41 | 2° 5 | S 8 |
| M 9 | 3 15 47 | 17°28'53 | 1る8 | 9° 8 | 1°12 | 15° 3 | 18°23 | 22°44 | 0°27 | 11°34 | 9°45 | 13°49 | 14°58 | 14°48 | 2° 4 | M 9 |
| T 10 | 3 19 43 | 18°29'22 | 15°43 | 9°36 | 2° 7 | 15° 8 | 18°33 | 22°39 | 0°26 | 11°35 | 9°45 | 13°50 | 14°55 | 14°54 | 2° 2 | T 10 |
| W11 | 3 23 40 | 19°29'52 | 29°57 | 9°58 | 3° 3 | 15°13 | 18°43 | 22°35 | 0°25 | 11°35 | 9°44 | 13°52 | 14°52 | 15° 1 | 2° 0 | W11 |
| T 12 | 3 27 37 | 20°30'24 | 13 ≈ 50 | 10°11 | 4° 0 | 15°17 | 18°53 | 22°30 | 0°23 | 11°36 | 9°43 | 13°52 | 14°48 | 15° 8 | 1°59 | T 12 |
| F 13 | 3 31 33 | 21°30'57 | 27°21 | 10°R15 | 4°57 | 15°20 | 19° 4 | 22°25 | 0°22 | 11°37 | 9°42 | 13°R53 | 14°45 | 15°14 | 1°57 | F 13 |
| S 14 | 3 35 30 | 22°31'31 | 10 米 32 | 10°11 | 5°55 | 15°23 | 19°14 | 22°20 | 0°21 | 11°37 | 9°42 | 13°51 | 14°42 | 15°21 | 1°55 | S 14 |
| S 15 | 3 39 26 | 23°32'06 | 23°25 | 9°56 | 6°53 | 15°25 | 19°25 | 22°15 | 0°20 | 11°38 | 9°41 | 13°49 | 14°39 | 15°28 | 1°54 | S 15 |
| M16 | 3 43 23 | 24°32'43 | 6 ℃ 2 | 9°31 | 7°52 | 15°25 | 19°36 | 22°10 | 0°19 | 11°39 | 9°40 | 13°47 | 14°36 | 15°34 | 1°52 | M16 |
| T 17 | 3 47 19 | 25°33'21 | 18°26 | 8°55 | 8°51 | 15°R25 | 19°47 | 22° 5 | 0°18 | 11°40 | 9°39 | 13°44 | 14°32 | 15°41 | 1°51 | T 17 |
| W18 | 3 51 16 | 26°34'00 | 0 8 39 | 8° 9 | 9°51 | 15°25 | 19°58 | 22° 0 | 0°16 | 11°41 | 9°38 | 13°41 | 14°29 | 15°47 | 1°50 | W18 |
| T 19 | 3 55 12 | 27°34'40 | 12°43 | 7°12 | 10°51 | 15°23 | 20° 9 | 21°55 | 0°16 | 11°42 | 9°38 | 13°38 | 14°26 | 15°54 | 1°48 | T 19 |
| F 20 | 3 59 9 | 28°35'22 | 24°40 | 6° 7 | 11°52 | 15°21 | 20°20 | 21°50 | 0°15 | 11°43 | 9°37 | 13°37 | 14°23 | 16° 1 | 1°47 | F 20 |
| S 21 | 4 3 6 | 29°36'05 | 6 Ⅱ 31 | 4°54 | 12°53 | 15°17 | 20°31 | 21°46 | 0°14 | 11°44 | 9°36 | 13°36 | 14°20 | 16° 7 | 1°46 | S 21 |
| S 22 | 4 7 2 | 0 ∡ ³36'49 | 18°19 | 3°35 | 13°54 | 15°13 | 20°42 | 21°41 | 0°13 | 11°44 | 9°35 | 13°D36 | 14°17 | 16°14 | 1°45 | S 22 |
| M23 | 4 10 59 | 1°37'35 | 0ණ 6 | 2°13 | 14°56 | 15° 8 | 20°54 | 21°36 | 0°12 | 11°46 | 9°34 | 13°36 | 14°13 | 16°21 | 1°44 | M23 |
| T 24 | 4 14 55 | 2°38'22 | 11°55 | 0°51 | 15°59 | 15° 2 | 21° 5 | 21°31 | 0°11 | 11°47 | 9°33 | 13°37 | 14°10 | 16°27 | 1°43 | T 24 |
| W25 | 4 18 52 | 3°39'11 | 23°48 | 29MJ31 | 17° 1 | 14°56 | 21°17 | 21°26 | 0°11 | 11°48 | 9°32 | 13°38 | 14° 7 | 16°34 | 1°42 | W25 |
| T 26 | 4 22 48 | 4°40'01 | 5 Ω 50 | 28°16 | 18° 4 | 14°48 | 21°29 | 21°22 | 0°10 | 11°49 | 9°31 | 13°39 | 14° 4 | 16°41 | 1°41 | T 26 |
| F 27 | 4 26 45 | 5°40'52 | 18° 4 | 27° 8 | 19°8 | 14°40 | 21°41 | 21°17 | 0° 9 | 11°50 | 9°30 | 13°40 | 14° 1 | 16°47 | 1°40 | F 27 |
| S 28 | 4 30 41 | 6°41'45 | 0 m 35 | 26° 9 | 20°12 | 14°30 | 21°52 | 21°12 | 0° 9 | 11°51 | 9°29 | 13°41 | 13°58 | 16°54 | 1°39 | S 28 |
| S 29 | 4 34 38 | 7°42'39 | 13°27 | 25°21 | 21°16 | 14°20 | 22° 4 | 21° 8 | 0° 8 | 11°52 | 9°28 | 13°R41 | 13°54 | 17° 1 | 1°38 | S 29 |
| M30 | 4 38 35 | 8 × ⁷ 43'35 | 26 M 42 | 24 M 44 | 22 ॒ 20 | 1495 9 | 22 ਰ 17 | 218 3 | oΥ 8 | 11≈54 | 9 9 27 | 13 ×7 40 | 13 × 751 | 17耳 7 | 1 Y 38 | M30 |

Delta T = 25.51 sec Greg. Calendar

DECEMBER 1676 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | P | ♂ | 4 | ħ |)Å(| ¥ | Р | U | ß | Ç | k _o | Day |
|------|---------|-------------------|----------------|-----------------|----------------|--------|----------------|----------------|---------------|-------|-------|-----------------|-----------------|----------------|----------------|------|
| T 1 | 4 42 31 | 9 ,7 44'31 | 10 ≏ 24 | 24°R19 | 23 ₾ 25 | 13°R57 | 22 る 29 | 20°R59 | 0°R 7 | 11≈55 | 9°R26 | 13°R40 | 13 ∡ 748 | 17 I I4 | 1°R37 | T 1 |
| W 2 | 4 46 28 | 10°45'29 | 24°34 | 24M 5 | 24°30 | 139945 | 22°41 | 20 8 54 | 0 ℃ 7 | 11°56 | 9925 | 13 ×7 40 | 13°45 | 17°21 | 1 Y 36 | W 2 |
| T 3 | 4 50 24 | 11°46'29 | 9M 9 | 24°D 2 | 25°35 | 13°31 | 22°53 | 20°50 | 0° 7 | 11°57 | 9°24 | 13°39 | 13°42 | 17°27 | 1°36 | T 3 |
| F 4 | 4 54 21 | 12°47'29 | 24° 5 | 24° 9 | 26°41 | 13°17 | 23° 6 | 20°45 | 0° 6 | 11°59 | 9°23 | 13°39 | 13°38 | 17°34 | 1°35 | F 4 |
| S 5 | 4 58 17 | 13°48'31 | 9 ∡ 15 | 24°25 | 27°47 | 13° 2 | 23°18 | 20°41 | 0° 6 | 12° 0 | 9°22 | 13°39 | 13°35 | 17°40 | 1°35 | S 5 |
| S 6 | 5 2 14 | 14°49'33 | 24°29 | 24°50 | 28°53 | 12°46 | 23°31 | 20°37 | 0° 6 | 12° 2 | 9°20 | 13°39 | 13°32 | 17°47 | 1°35 | S 6 |
| M 7 | 5 6 11 | 15°50'37 | 9 云 38 | 25°23 | 29°59 | 12°29 | 23°43 | 20°33 | 0° 6 | 12° 3 | 9°19 | 13°39 | 13°29 | 17°54 | 1°34 | M 7 |
| T 8 | 5 10 7 | 16°51'41 | 24°32 | 26° 2 | 1 M 6 | 12°12 | 23°56 | 20°28 | 0° 6 | 12° 5 | 9°18 | 13°39 | 13°26 | 18° 0 | 1°34 | T 8 |
| W 9 | 5 14 4 | 17°52'45 | 9≈ 5 | 26°48 | 2°13 | 11°54 | 24° 9 | 20°24 | 0°D 6 | 12° 6 | 9°17 | 13°38 | 13°23 | 18° 7 | 1°34 | W 9 |
| T 10 | 5 18 0 | 18°53'50 | 23°12 | 27°40 | 3°20 | 11°35 | 24°21 | 20°20 | 0° 6 | 12° 8 | 9°16 | 13°38 | 13°19 | 18°14 | 1°34 | T 10 |
| F 11 | 5 21 57 | 19°54'55 | 6 ∺ 52 | 28°36 | 4°27 | 11°16 | 24°34 | 20°16 | 0° 6 | 12° 9 | 9°15 | 13°37 | 13°16 | 18°20 | 1°34 | F 11 |
| S 12 | 5 25 53 | 20°56'01 | 20° 6 | 29°36 | 5°34 | 10°56 | 24°47 | 20°13 | 0° 6 | 12°11 | 9°14 | 13°D37 | 13°13 | 18°27 | 1°D34 | S 12 |
| S 13 | 5 29 50 | 21°57'06 | 2 Y 56 | 0 ₮ 40 | 6°42 | 10°36 | 25° 0 | 20° 9 | 0° 6 | 12°12 | 9°12 | 13°37 | 13°10 | 18°34 | 1°34 | S 13 |
| M14 | 5 33 46 | 22°58'13 | 15°27 | 1°47 | 7°50 | 10°15 | 25°13 | 20° 5 | 0° 7 | 12°14 | 9°11 | 13°38 | 13° 7 | 18°40 | 1°34 | M14 |
| T 15 | 5 37 43 | 23°59'19 | 27°41 | 2°57 | 8°58 | 9°53 | 25°26 | 20° 1 | 0° 7 | 12°16 | 9°10 | 13°39 | 13° 4 | 18°47 | 1°34 | T 15 |
| W16 | 5 41 40 | 25° 0'26 | 9 8 44 | 4° 9 | 10° 6 | 9°31 | 25°39 | 19°58 | 0° 7 | 12°17 | 9° 9 | 13°40 | 13° 0 | 18°54 | 1°34 | W16 |
| T 17 | 5 45 36 | 26° 1'33 | 21°39 | 5°24 | 11°15 | 9° 9 | 25°53 | 19°54 | 0°8 | 12°19 | 9° 8 | 13°41 | 12°57 | 19° 0 | 1°34 | T 17 |
| F 18 | 5 49 33 | 27° 2'40 | 3耳28 | 6°40 | 12°23 | 8°46 | 26° 6 | 19°51 | 0°8 | 12°21 | 9° 6 | 13°42 | 12°54 | 19° 7 | 1°35 | F 18 |
| S 19 | 5 53 29 | 28° 3'48 | 15°16 | 7°59 | 13°32 | 8°23 | 26°19 | 19°48 | 0° 9 | 12°22 | 9° 5 | 13°R42 | 12°51 | 19°13 | 1°35 | S 19 |
| S 20 | 5 57 26 | 29° 4'56 | 27° 4 | 9°18 | 14°41 | 8° 0 | 26°33 | 19°44 | 0° 9 | 12°24 | 9° 4 | 13°42 | 12°48 | 19°20 | 1°36 | S 20 |
| M21 | 6 1 22 | 0පි 6'04 | 8954 | 10°39 | 15°50 | 7°37 | 26°46 | 19°41 | 0°10 | 12°26 | 9° 3 | 13°40 | 12°44 | 19°27 | 1°36 | M21 |
| T 22 | 6 5 19 | 1° 7'13 | 20°49 | 12° 1 | 16°59 | 7°13 | 26°59 | 19°38 | 0°11 | 12°28 | 9° 1 | 13°38 | 12°41 | 19°33 | 1°37 | T 22 |
| W23 | 6 9 15 | 2° 8'22 | $2\Omega 51$ | 13°25 | 18° 9 | 6°49 | 27°13 | 19°35 | 0°11 | 12°30 | 9° 0 | 13°35 | 12°38 | 19°40 | 1°37 | W23 |
| T 24 | 6 13 12 | 3° 9'31 | 15° 1 | 14°49 | 19°19 | 6°25 | 27°26 | 19°32 | 0°12 | 12°31 | 8°59 | 13°32 | 12°35 | 19°47 | 1°38 | T 24 |
| F 25 | 6 17 9 | 4°10'41 | 27°22 | 16°14 | 20°28 | 6° 1 | 27°40 | 19°30 | 0°13 | 12°33 | 8°58 | 13°29 | 12°32 | 19°53 | 1°39 | F 25 |
| S 26 | 6 21 5 | 5°11'50 | 9 ₯ 56 | 17°40 | 21°38 | 5°38 | 27°54 | 19°27 | 0°14 | 12°35 | 8°56 | 13°26 | 12°29 | 20° 0 | 1°39 | S 26 |
| S 27 | 6 25 2 | 6°13'01 | 22°47 | 19° 6 | 22°48 | 5°14 | 28° 7 | 19°24 | 0°15 | 12°37 | 8°55 | 13°24 | 12°25 | 20° 7 | 1°40 | S 27 |
| M28 | 6 28 58 | 7°14'11 | 5 ≏ 56 | 20°33 | 23°58 | 4°50 | 28°21 | 19°22 | 0°16 | 12°39 | 8°54 | 13°D24 | 12°22 | 20°13 | 1°41 | M28 |
| T 29 | 6 32 55 | 8°15'22 | 19°27 | 22° 1 | 25° 9 | 4°26 | 28°35 | 19°19 | 0°17 | 12°41 | 8°53 | 13°24 | 12°19 | 20°20 | 1°42 | T 29 |
| W30 | 6 36 51 | 9°16'33 | 3M21 | 23°29 | 26°19 | 4° 3 | 28°49 | 19°17 | 0°18 | 12°43 | 8°51 | 13°25 | 12°16 | 20°27 | 1°43 | W30 |
| T 31 | 6 40 48 | 10 궁 17'45 | 17 M 39 | 24 × 758 | 27 M 30 | 39540 | 29る 2 | 19 8 15 | 0 Υ 19 | 12≈45 | 8950 | 13 × 27 | 12 × 13 | 20耳33 | 1 Υ 44 | T 31 |

Delta T = 25.46 sec

JANUARY 1677 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | Q. | ð | 4 | ħ |)f(| ¥ | Р | u | v | ţ | ę, | Day |
|--------------|--------------------|----------------------|-----------------------|-----------------|----------------|----------------|----------------|-----------------|---------------|----------------|---------------|------------------|----------------|-----------------|---------------|--------------|
| F 1 | 6 44 44 | 11 궁 18'56 | 2 ₹ 18 | 26 × 127 | 28 M 40 | 3°R17 | 29 궁 16 | 19°R13 | 0 Υ 20 | 12≈47 | 8°R49 | 13 × 28 | 12 才 10 | 20 Ⅱ 40 | 1 Υ 45 | F 1 |
| S 2 | 6 48 41 | 12°20'08 | 17°14 | 27°57 | 29°51 | 2955 | 29°30 | 19 8 11 | 0°21 | 12°49 | 8 9 48 | 13°R28 | 12° 6 | 20°47 | 1°46 | S 2 |
| S 3 | 6 52 38 | 13°21'20 | 2 ප 21 | 29°28 | 1 √ 2 | 2°33 | 29°44 | 19° 9 | 0°23 | 12°51 | 8°46 | 13°27 | 12° 3 | 20°53 | 1°48 | S 3 |
| M 4 | 6 56 34 | 14°22'31 | 17°30 | 0 궁 59 | 2°13 | 2°11 | 29°58 | 19° 7 | 0°24 | 12°53 | 8°45 | 13°25 | 12° 0 | 21° 0 | 1°49 | M 4 |
| T 5 | 7 0 31 | 15°23'43 | 2≈30 | 2°30 | 3°24 | 1°50 | 0≈12 | 19° 6 | 0°25 | 12°55 | 8°44 | 13°20 | 11°57 | 21° 6 | 1°50 | T 5 |
| W 6 | 7 4 27 | 16°24'53 | 17°14 | 4° 2 | 4°35 | 1°29 | 0°26 | 19° 4 | 0°27 | 12°57 | 8°43 | 13°15 | 11°54 | 21°13 | 1°52 | W 6 |
| T 7 | 7 8 24 | 17°26'04 | 1) €33 | 5°34 | 5°46 | 1° 9 | 0°40 | 19° 3 | 0°28 | 12°59 | 8°41 | 13°10 | 11°50 | 21°20 | 1°53 | T 7 |
| F 8 | 7 12 20 | 18°27'13 | 15°25 | 7° 7 | 6°58 | 0°49 | 0°54 | 19° 1 | 0°30 | 13° 1 | 8°40 | 13° 5 | 11°47 | 21°26 | 1°54 | F 8 |
| S 9 | 7 16 17 | 19°28'22 | 28°47 | 8°40 | 8° 9 | 0°31 | 1° 8 | 19° 0 | 0°31 | 13° 3 | 8°39 | 13° 2 | 11°44 | 21°33 | 1°56 | S 9 |
| S 10 | 7 20 13 | 20°29'30 | 11 Y 43 | 10°14 | 9°20 | 0°12 | 1°22 | 18°59 | 0°33 | 13° 6 | 8°38 | 13° 0 | 11°41 | 21°40 | 1°58 | S 10 |
| M11 | 7 24 10 | 21°30'38 | 24°15 | 11°48 | 10°32 | 29∏55 | 1°37 | 18°58 | 0°34 | 13° 8 | 8°37 | 12°D59 | 11°38 | 21°46 | 1°59 | M11 |
| T 12 | 7 28 7 | 22°31'44 | 6829 | 13°22 | 11°44 | 29°38 | 1°51 | 18°57 | 0°36 | 13°10 | 8°35 | 13° 0 | 11°35 | 21°53 | 2° 1 | T 12 |
| W13 | 7 32 3 | 23°32'50 | 18°28 | 14°58 | 12°55 | 29°22 | 2° 5 | 18°56 | 0°38 | 13°12 | 8°34 | 13° 2 | 11°31 | 22° 0 | 2° 3 | W13 |
| T 14 F 15 | 7 36 0 7 39 56 | 24°33'55 25°34'59 | 0 Ⅱ 19 12°5 | 16°33 18°10 | 14° 7 15°19 | 29° 6 28°51 | 2°19 2°33 | 18°56 18°55 | 0°40 0°42 | 13°14 13°16 | 8°33 8°32 | 13° 3 13°R 4 | 11°28 11°25 | 22° 6 22°13 | 2° 4 2° 6 | T 14 F 15 |
| S 16 | 7 43 53 | 25°34'39 26°36'03 | 23°52 | 18°10 19°46 | 16°31 | 28°37 | 2°47 | 18°55 | 0°42 0°43 | 13°16 | 8°32 8°31 | 13° K 4 | 11°23 | 22°13 | 2° 8 | S 16 |
| | | | | | | | | | | | | | | | | |
| S 17 | 7 47 49 | 27°37'05 | 59542 | 21°24 | 17°43 | 28°24 | 3° 2 | 18°55 | 0°45 | 13°21 | 8°29 | 13° 1 | 11°19 | 22°26 | 2°10 | S 17 |
| M18 T 19 | 7 51 46 | 28°38'07 29°39'08 | 17°39 29°44 | 23° 2 24°40 | 18°55 20° 7 | 28°12 28° 0 | 3°16 3°30 | 18°54 18°D54 | 0°47 0°49 | 13°23 13°25 | 8°28 | 12°56 12°49 | 11°16 11°12 | 22°33 22°40 | 2°12 2°14 | M18 T 19 |
| W20 | 7 55 42 7 59 39 | 29°39'08 0≈40'08 | 11 Ω 58 | 24°40 26°20 | 20° / 21°19 | 28° 0 | 3°44 | 18°54 | 0°49 | 13°25 | 8°27 8°26 | 12°49 | 11°12 | 22°46 | 2°14 | W20 |
| T 21 | 8 3 36 | 1°41'07 | 24°23 | 26°20 27°59 | 21 19 22°31 | 27°39 | 3°59 | 18°54 | 0°53 | 13°27 | 8°25 | 12°30 | 11° 6 | 22°53 | 2°18 | T 21 |
| F 22 | 8 7 32 | 2°42'05 | 6 m 59 | 29°40 | 23°44 | 27°30 | 4°13 | 18°55 | 0°56 | 13°32 | 8°24 | 12°21 | 11° 3 | 23° 0 | 2°21 | F 22 |
| S 23 | 8 11 29 | 3°43'03 | 19°47 | 1≈21 | 24°56 | 27°22 | 4°27 | 18°55 | 0°58 | 13°34 | 8°23 | 12°13 | 11° 0 | 23° 6 | 2°23 | S 23 |
| S 24 | 8 15 25 | 4°43'59 | 2 <u>Ω</u> 47 | 3° 3 | 26° 8 | 27°14 | 4°41 | 18°56 | 1° 0 | 13°36 | 8°21 | 12° 6 | 10°56 | 23°13 | 2°25 | S 24 |
| M25 | 8 19 22 | 5°44'55 | 16° 1 | 4°45 | 27°21 | 27° 7 | 4°56 | 18°56 | 1° 2 | 13°39 | 8°20 | 12° 2 | 10°53 | 23°19 | 2°27 | M25 |
| T 26 | 8 23 18 | 6°45'51 | 29°30 | 6°29 | 28°33 | 27° 1 | 5°10 | 18°57 | 1° 4 | 13°41 | 8°19 | 12° 0 | 10°50 | 23°26 | 2°30 | T 26 |
| W27 | 8 27 15 | 7°46'45 | 13 M .15 | 8°12 | 29°46 | 26°56 | 5°24 | 18°58 | 1° 7 | 13°43 | 8°18 | 12°D 0 | 10°47 | 23°33 | 2°32 | W27 |
| T 28 | 8 31 11 | 8°47'39 | 27°16 | 9°57 | 0 ろ 59 | 26°52 | 5°38 | 18°59 | 1° 9 | 13°46 | 8°17 | 12° 0 | 10°44 | 23°39 | 2°34 | T 28 |
| F 29 | 8 35 8 | 9°48'32 | 11 ∡ ³35 | 11°42 | 2°11 | 26°48 | 5°53 | 19° 0 | 1°12 | 13°48 | 8°16 | 12°R 1 | 10°41 | 23°46 | 2°37 | F 29 |
| S 30 | 8 39 5 | 10°49'25 | 26° 8 | 13°28 | 3°24 | 26°45 | 6° 7 | 19° 1 | 1°14 | 13°50 | 8°15 | 12° 0 | 10°37 | 23°53 | 2°39 | S 30 |
| S 31 | 8 43 1 | 11≈50'16 | 10 ට 53 | 15≈15 | 4 ට 37 | 26 Ⅱ 43 | 6≈21 | 198 2 | 1 Υ 16 | 13≈52 | 8914 | 11 .⁄7 57 | 10 ₮ 34 | 23 II 59 | 2 Ƴ 42 | S 31 |

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Greg. Calendar

FEBRUARY 1677 GC 00:00 UT

| Day | Sid.t | \odot | 2) | Ŷ | ¥ | σ' | 4 | η | ₩. | # | E | 8.9 | 88 | \$ | δ | Day |
|------|----------|------------------|----------------|----------------|---------------|--------|-------|---------------|---------------|-------|-------|-----------------|----------------|-------|---------------|------|
| M 1 | 8 46 58 | 12≈51'06 | 25 る 43 | 17≈ 2 | 5 る 50 | 26°R42 | 6≈35 | 19 8 3 | 1 Υ 19 | 13≈55 | 8°R13 | 11°R51 | 10 × 31 | 24耳 6 | 2 Υ 45 | M 1 |
| T 2 | 8 50 54 | 13°51'55 | 10≈30 | 18°50 | 7° 2 | 26°D41 | 6°50 | 19° 5 | 1°22 | 13°57 | 89512 | 11 ×7 43 | 10°28 | 24°13 | 2°47 | T 2 |
| W 3 | 8 54 51 | 14°52'43 | 25° 7 | 20°38 | 8°15 | 26∏42 | 7° 4 | 19° 7 | 1°24 | 13°59 | 8°11 | 11°33 | 10°25 | 24°19 | 2°50 | W 3 |
| T 4 | 8 58 47 | 15°53'29 | 9 ∺ 25 | 22°26 | 9°28 | 26°43 | 7°18 | 19° 8 | 1°27 | 14° 2 | 8°10 | 11°22 | 10°22 | 24°26 | 2°53 | T 4 |
| F 5 | 9 2 44 | 16°54'14 | 23°19 | 24°15 | 10°41 | 26°44 | 7°32 | 19°10 | 1°29 | 14° 4 | 8° 9 | 11°12 | 10°18 | 24°33 | 2°55 | F 5 |
| S 6 | 9 6 40 | 17°54'57 | 6 Ƴ 47 | 26° 5 | 11°54 | 26°47 | 7°46 | 19°12 | 1°32 | 14° 6 | 8° 8 | 11° 3 | 10°15 | 24°39 | 2°58 | S 6 |
| S 7 | 9 10 37 | 18°55'39 | 19°48 | 27°54 | 13° 7 | 26°50 | 8° 1 | 19°14 | 1°35 | 14° 8 | 8° 7 | 10°57 | 10°12 | 24°46 | 3° 1 | S 7 |
| M 8 | 9 14 34 | 19°56'19 | 2 8 24 | 29°43 | 14°20 | 26°54 | 8°15 | 19°16 | 1°37 | 14°11 | 8° 6 | 10°53 | 10° 9 | 24°53 | 3° 4 | M 8 |
| T 9 | 9 18 30 | 20°56'58 | 14°40 | 1 ★ 32 | 15°33 | 26°59 | 8°29 | 19°19 | 1°40 | 14°13 | 8° 5 | 10°52 | 10° 6 | 24°59 | 3° 7 | T 9 |
| W10 | 9 22 27 | 21°57'34 | 26°41 | 3°21 | 16°46 | 27° 4 | 8°43 | 19°21 | 1°43 | 14°15 | 8° 5 | 10°D51 | 10° 2 | 25° 6 | 3°10 | W10 |
| T 11 | 9 26 23 | 22°58'09 | 8 Ⅲ 32 | 5° 9 | 17°59 | 27°10 | 8°57 | 19°23 | 1°46 | 14°17 | 8° 4 | 10°R52 | 9°59 | 25°12 | 3°13 | T 11 |
| F 12 | 9 30 20 | 23°58'42 | 20°19 | 6°55 | 19°12 | 27°17 | 9°11 | 19°26 | 1°49 | 14°20 | 8° 3 | 10°51 | 9°56 | 25°19 | 3°16 | F 12 |
| S 13 | 9 34 16 | 24°59'14 | 299 7 | 8°41 | 20°25 | 27°24 | 9°25 | 19°29 | 1°52 | 14°22 | 8° 2 | 10°49 | 9°53 | 25°26 | 3°19 | S 13 |
| S 14 | 9 38 13 | 25°59'43 | 14° 1 | 10°24 | 21°39 | 27°32 | 9°39 | 19°31 | 1°55 | 14°24 | 8° 1 | 10°45 | 9°50 | 25°32 | 3°22 | S 14 |
| M15 | 9 42 9 | 27° 0'11 | 26° 3 | 12° 5 | 22°52 | 27°40 | 9°53 | 19°34 | 1°57 | 14°26 | 8° 1 | 10°37 | 9°47 | 25°39 | 3°25 | M15 |
| T 16 | 9 46 6 | 28° 0'37 | 8 Ω 18 | 13°44 | 24° 5 | 27°49 | 10° 7 | 19°37 | 2° 0 | 14°29 | 8° 0 | 10°27 | 9°43 | 25°46 | 3°28 | T 16 |
| W17 | 9 50 3 | 29° 1'01 | 20°47 | 15°19 | 25°18 | 27°59 | 10°21 | 19°40 | 2° 3 | 14°31 | 7°59 | 10°15 | 9°40 | 25°52 | 3°31 | W17 |
| T 18 | 9 53 59 | 0 ∺ 1'24 | 3 m 30 | 16°51 | 26°31 | 28°10 | 10°35 | 19°44 | 2° 6 | 14°33 | 7°58 | 10° 2 | 9°37 | 25°59 | 3°34 | T 18 |
| F 19 | 9 57 56 | 1° 1'44 | 16°26 | 18°18 | 27°45 | 28°20 | 10°49 | 19°47 | 2° 9 | 14°35 | 7°58 | 9°48 | 9°34 | 26° 6 | 3°37 | F 19 |
| S 20 | 10 1 52 | 2° 2'03 | 29°36 | 19°39 | 28°58 | 28°32 | 11° 2 | 19°50 | 2°12 | 14°38 | 7°57 | 9°36 | 9°31 | 26°12 | 3°41 | S 20 |
| S 21 | 10 5 49 | 3° 2'21 | 12 ≏ 56 | 20°56 | 0≈11 | 28°44 | 11°16 | 19°54 | 2°16 | 14°40 | 7°56 | 9°26 | 9°28 | 26°19 | 3°44 | S 21 |
| M22 | 10 9 45 | 4° 2'37 | 26°27 | 22° 5 | 1°25 | 28°56 | 11°30 | 19°57 | 2°19 | 14°42 | 7°56 | 9°19 | 9°24 | 26°26 | 3°47 | M22 |
| T 23 | 10 13 42 | 5° 2'51 | 10 M 7 | 23° 8 | 2°38 | 29° 9 | 11°44 | 20° 1 | 2°22 | 14°44 | 7°55 | 9°15 | 9°21 | 26°32 | 3°50 | T 23 |
| W24 | 10 17 38 | 6° 3'04 | 23°55 | 24° 4 | 3°51 | 29°23 | 11°57 | 20° 5 | 2°25 | 14°46 | 7°54 | 9°13 | 9°18 | 26°39 | 3°54 | W24 |
| T 25 | 10 21 35 | 7° 3'16 | 7 . ₹53 | 24°51 | 5° 5 | 29°37 | 12°11 | 20° 9 | 2°28 | 14°48 | 7°54 | 9°13 | 9°15 | 26°46 | 3°57 | T 25 |
| F 26 | 10 25 32 | 8° 3'26 | 21°59 | 25°30 | 6°18 | 29°51 | 12°24 | 20°13 | 2°31 | 14°51 | 7°53 | 9°13 | 9°12 | 26°52 | 4° 0 | F 26 |
| S 27 | 10 29 28 | 9° 3'34 | 6 ප 13 | 26° 0 | 7°32 | 09 6 | 12°38 | 20°17 | 2°35 | 14°53 | 7°53 | 9°11 | 9° 8 | 26°59 | 4° 4 | S 27 |
| S 28 | 10 33 25 | 10 ¥ 3'41 | 20중33 | 26 ∺ 22 | 8≈45 | 0ණ22 | 12≈52 | 20821 | 2 Y 38 | 14≈55 | 7952 | 9 ∡ 7 | 9 ∡ 5 | 27耳 6 | 4℃ 7 | S 28 |

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MARCH 1677 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)f(| Ħ | Р | ß | Ω | ţ | ę k | Day |
|------|----------|-------------------|----------------|----------------|-----------------|--------|----------------|----------------|---------------|-------|----------------|---------------|----------------|----------------|---------------|------|
| M 1 | 10 37 21 | 11) 3 '47 | 4≈57 | 26) 34 | 9≈58 | 0938 | 13 ≈ 5 | 20 8 25 | 2 Υ 41 | 14≈57 | 7°R52 | 9°R 1 | 9 ∡ 2 | 27 Ⅱ 12 | 4 Υ11 | M 1 |
| T 2 | 10 41 18 | 12° 3'50 | 19°18 | 26°R36 | 11°12 | 0°54 | 13°18 | 20°29 | 2°44 | 14°59 | 7 95 51 | 8 才 51 | 8°59 | 27°19 | 4°14 | T 2 |
| W 3 | 10 45 14 | 13° 3'52 | 3) €32 | 26°30 | 12°25 | 1°11 | 13°32 | 20°34 | 2°47 | 15° 1 | 7°51 | 8°39 | 8°56 | 27°26 | 4°17 | W 3 |
| T 4 | 10 49 11 | 14° 3'52 | 17°33 | 26°15 | 13°39 | 1°28 | 13°45 | 20°38 | 2°51 | 15° 3 | 7°51 | 8°26 | 8°53 | 27°32 | 4°21 | T 4 |
| F 5 | 10 53 7 | 15° 3'50 | 1 Y 16 | 25°52 | 14°52 | 1°46 | 13°58 | 20°43 | 2°54 | 15° 5 | 7°50 | 8°14 | 8°49 | 27°39 | 4°24 | F 5 |
| S 6 | 10 57 4 | 16° 3'45 | 14°37 | 25°20 | 16° 6 | 2° 4 | 14°12 | 20°48 | 2°57 | 15° 7 | 7°50 | 8° 4 | 8°46 | 27°45 | 4°28 | S 6 |
| S 7 | 11 1 1 | 17° 3'39 | 27°35 | 24°42 | 17°19 | 2°22 | 14°25 | 20°52 | 3° 1 | 15° 9 | 7°49 | 7°55 | 8°43 | 27°52 | 4°31 | S 7 |
| M 8 | 11 4 57 | 18° 3'31 | 10812 | 23°58 | 18°33 | 2°41 | 14°38 | 20°57 | 3° 4 | 15°11 | 7°49 | 7°50 | 8°40 | 27°59 | 4°35 | M 8 |
| T 9 | 11 8 54 | 19° 3'20 | 22°29 | 23°10 | 19°46 | 3° 0 | 14°51 | 21° 2 | 3° 7 | 15°13 | 7°49 | 7°47 | 8°37 | 28° 5 | 4°39 | T 9 |
| W10 | 11 12 50 | 20° 3'07 | 4 Ⅱ 32 | 22°17 | 21° 0 | 3°20 | 15° 4 | 21° 7 | 3°11 | 15°15 | 7°49 | 7°D46 | 8°33 | 28°12 | 4°42 | W10 |
| T 11 | 11 16 47 | 21° 2'52 | 16°25 | 21°22 | 22°14 | 3°40 | 15°17 | 21°12 | 3°14 | 15°17 | 7°48 | 7°R46 | 8°30 | 28°19 | 4°46 | T 11 |
| F 12 | 11 20 43 | 22° 2'35 | 28°13 | 20°26 | 23°27 | 4° 0 | 15°30 | 21°17 | 3°17 | 15°19 | 7°48 | 7°46 | 8°27 | 28°25 | 4°49 | F 12 |
| S 13 | 11 24 40 | 23° 2'16 | 1099 3 | 19°29 | 24°41 | 4°21 | 15°42 | 21°23 | 3°21 | 15°21 | 7°48 | 7°45 | 8°24 | 28°32 | 4°53 | S 13 |
| S 14 | 11 28 36 | 24° 1'54 | 21°58 | 18°34 | 25°54 | 4°42 | 15°55 | 21°28 | 3°24 | 15°23 | 7°48 | 7°42 | 8°21 | 28°39 | 4°57 | S 14 |
| M15 | 11 32 33 | 25° 1'30 | 4 Ω 5 | 17°41 | 27° 8 | 5° 3 | 16° 8 | 21°33 | 3°28 | 15°25 | 7°47 | 7°36 | 8°18 | 28°45 | 5° 0 | M15 |
| T 16 | 11 36 30 | 26° 1'03 | 16°27 | 16°51 | 28°21 | 5°25 | 16°20 | 21°39 | 3°31 | 15°26 | 7°47 | 7°27 | 8°14 | 28°52 | 5° 4 | T 16 |
| W17 | 11 40 26 | 27° 0'35 | 29° 6 | 16° 6 | 29°35 | 5°46 | 16°33 | 21°44 | 3°34 | 15°28 | 7°47 | 7°17 | 8°11 | 28°59 | 5° 7 | W17 |
| T 18 | 11 44 23 | 28° 0'04 | 12 Mp 4 | 15°24 | 0) (48 | 6° 9 | 16°45 | 21°50 | 3°38 | 15°30 | 7°47 | 7° 5 | 8° 8 | 29° 5 | 5°11 | T 18 |
| F 19 | 11 48 19 | 28°59'31 | 25°20 | 14°48 | 2° 2 | 6°31 | 16°58 | 21°56 | 3°41 | 15°32 | 7°47 | 6°53 | 8° 5 | 29°12 | 5°15 | F 19 |
| S 20 | 11 52 16 | 29°58'55 | 8 ჲ 53 | 14°18 | 3°16 | 6°54 | 17°10 | 22° 1 | 3°45 | 15°34 | 7°47 | 6°42 | 8° 2 | 29°19 | 5°18 | S 20 |
| S 21 | 11 56 12 | 0 Υ 58'18 | 22°38 | 13°53 | 4°29 | 7°17 | 17°22 | 22° 7 | 3°48 | 15°35 | 7°D47 | 6°34 | 7°59 | 29°25 | 5°22 | S 21 |
| M22 | 12 0 9 | 1°57'39 | 6 M J34 | 13°35 | 5°43 | 7°41 | 17°34 | 22°13 | 3°52 | 15°37 | 7°47 | 6°28 | 7°55 | 29°32 | 5°26 | M22 |
| T 23 | 12 4 5 | 2°56'58 | 20°36 | 13°22 | 6°56 | 8° 4 | 17°47 | 22°19 | 3°55 | 15°39 | 7°47 | 6°24 | 7°52 | 29°39 | 5°29 | T 23 |
| W24 | 12 8 2 | 3°56'16 | 4 ₹ 42 | 13°15 | 8°10 | 8°28 | 17°59 | 22°25 | 3°58 | 15°41 | 7°47 | 6°D23 | 7°49 | 29°45 | 5°33 | W24 |
| T 25 | 12 11 58 | 4°55'31 | 18°50 | 13°D14 | 9°23 | 8°52 | 18°11 | 22°31 | 4° 2 | 15°42 | 7°47 | 6°24 | 7°46 | 29°52 | 5°37 | T 25 |
| F 26 | 12 15 55 | 5°54'45 | 2 る 58 | 13°18 | 10°37 | 9°17 | 18°22 | 22°37 | 4° 5 | 15°44 | 7°47 | 6°R24 | 7°43 | 29°59 | 5°40 | F 26 |
| S 27 | 12 19 52 | 6°53'57 | 17° 5 | 13°28 | 11°51 | 9°41 | 18°34 | 22°43 | 4° 9 | 15°45 | 7°47 | 6°24 | 7°39 | 099 5 | 5°44 | S 27 |
| S 28 | 12 23 48 | 7°53'08 | 1≈ 9 | 13°43 | 13° 4 | 10° 6 | 18°46 | 22°50 | 4°12 | 15°47 | 7°48 | 6°22 | 7°36 | 0°12 | 5°48 | S 28 |
| M29 | 12 27 45 | 8°52'16 | 15°11 | 14° 3 | 14°18 | 10°32 | 18°57 | 22°56 | 4°16 | 15°49 | 7°48 | 6°17 | 7°33 | 0°19 | 5°51 | M29 |
| T 30 | 12 31 41 | 9°51'23 | 29° 6 | 14°27 | 15°32 | 10°57 | 19° 9 | 23° 2 | 4°19 | 15°50 | 7°48 | 6°10 | 7°30 | 0°25 | 5°55 | T 30 |
| W31 | 12 35 38 | 10 Y 50'28 | 12 ¥ 52 | 14 ∺ 57 | 16 ¥ 45 | 119523 | 19 ≈ 20 | 238 9 | 4 Υ 22 | 15≈52 | 7 95 48 | 6 ₹ 1 | 7 ,₹ 27 | 0932 | 5 Ƴ 59 | W31 |

Delta T = 25.31 sec

Greg. Calendar

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| Day | Sid.t | \odot | D | ğ | φ | ð | 4 | ħ |)Å(| ¥ | Б | B | v | Ç | ę, | Day |
|------|----------|-------------------|----------------|-----------------|----------------|--------|-------|----------------|---------------|-------|----------------|---------------|-----------------|------|---------------|------|
| T 1 | 12 39 34 | 11 ° 49'30 | 26) 27 | 15) (30 | 17 米 59 | 119548 | 19≈32 | 23 8 15 | 4 Υ 26 | 15≈53 | 7 95 48 | 5°R52 | 7 .₹ 124 | 0938 | 6 Υ 2 | T 1 |
| F 2 | 12 43 31 | 12°48'31 | 9 Ƴ 47 | 16° 8 | 19°12 | 12°15 | 19°43 | 23°22 | 4°29 | 15°55 | 7°49 | 5 ₹ 43 | 7°20 | 0°45 | 6° 6 | F 2 |
| S 3 | 12 47 27 | 13°47'30 | 22°51 | 16°49 | 20°26 | 12°41 | 19°54 | 23°28 | 4°33 | 15°56 | 7°49 | 5°35 | 7°17 | 0°52 | 6°10 | S 3 |
| S 4 | 12 51 24 | 14°46'27 | 5 8 37 | 17°34 | 21°40 | 13° 7 | 20° 5 | 23°35 | 4°36 | 15°57 | 7°49 | 5°29 | 7°14 | 0°58 | 6°13 | S 4 |
| M 5 | 12 55 21 | 15°45'21 | 18° 6 | 18°23 | 22°53 | 13°34 | 20°16 | 23°42 | 4°39 | 15°59 | 7°50 | 5°25 | 7°11 | 1° 5 | 6°17 | M 5 |
| T 6 | 12 59 17 | 16°44'14 | 0Д20 | 19°15 | 24° 7 | 14° 1 | 20°27 | 23°48 | 4°43 | 16° 0 | 7°50 | 5°D23 | 7° 8 | 1°12 | 6°20 | T 6 |
| W 7 | 13 3 14 | 17°43'04 | 12°21 | 20° 9 | 25°20 | 14°28 | 20°38 | 23°55 | 4°46 | 16° 1 | 7°50 | 5°23 | 7° 4 | 1°18 | 6°24 | W 7 |
| T 8 | 13 7 10 | 18°41'52 | 24°14 | 21° 7 | 26°34 | 14°55 | 20°49 | 24° 2 | 4°50 | 16° 3 | 7°51 | 5°24 | 7° 1 | 1°25 | 6°28 | T 8 |
| F 9 | 13 11 7 | 19°40'38 | 6 95 3 | 22° 8 | 27°48 | 15°23 | 20°59 | 24° 9 | 4°53 | 16° 4 | 7°51 | 5°26 | 6°58 | 1°32 | 6°31 | F 9 |
| S 10 | 13 15 3 | 20°39'22 | 17°53 | 23°12 | 29° 1 | 15°51 | 21°10 | 24°16 | 4°56 | 16° 5 | 7°52 | 5°R27 | 6°55 | 1°38 | 6°35 | S 10 |
| S 11 | 13 19 0 | 21°38'03 | 29°50 | 24°18 | 0 Υ 15 | 16°18 | 21°20 | 24°23 | 5° 0 | 16° 6 | 7°52 | 5°26 | 6°52 | 1°45 | 6°38 | S 11 |
| M12 | 13 22 56 | 22°36'42 | 11 Ω 58 | 25°26 | 1°28 | 16°46 | 21°30 | 24°30 | 5° 3 | 16° 8 | 7°53 | 5°24 | 6°49 | 1°52 | 6°42 | M12 |
| T 13 | 13 26 53 | 23°35'19 | 24°22 | 26°37 | 2°42 | 17°15 | 21°40 | 24°37 | 5° 6 | 16° 9 | 7°53 | 5°20 | 6°45 | 1°58 | 6°46 | T 13 |
| W14 | 13 30 50 | 24°33'54 | 7 m) 5 | 27°50 | 3°56 | 17°43 | 21°50 | 24°44 | 5° 9 | 16°10 | 7°54 | 5°15 | 6°42 | 2° 5 | 6°49 | W14 |
| T 15 | 13 34 46 | 25°32'26 | 20°10 | 29° 6 | 5° 9 | 18°12 | 22° 0 | 24°51 | 5°13 | 16°11 | 7°54 | 5° 9 | 6°39 | 2°12 | 6°53 | T 15 |
| F 16 | 13 38 43 | 26°30'56 | 3 ₾ 38 | 0 Υ 23 | 6°23 | 18°40 | 22°10 | 24°58 | 5°16 | 16°12 | 7°55 | 5° 3 | 6°36 | 2°18 | 6°56 | F 16 |
| S 17 | 13 42 39 | 27°29'25 | 17°28 | 1°43 | 7°36 | 19° 9 | 22°20 | 25° 5 | 5°19 | 16°13 | 7°56 | 4°57 | 6°33 | 2°25 | 7° 0 | S 17 |
| S 18 | 13 46 36 | 28°27'51 | 1 M .35 | 3° 5 | 8°50 | 19°38 | 22°29 | 25°13 | 5°22 | 16°14 | 7°56 | 4°52 | 6°30 | 2°32 | 7° 3 | S 18 |
| M19 | 13 50 32 | 29°26'16 | 15°56 | 4°29 | 10° 3 | 20° 7 | 22°39 | 25°20 | 5°26 | 16°15 | 7°57 | 4°49 | 6°26 | 2°38 | 7° 6 | M19 |
| T 20 | 13 54 29 | 0 8 24'39 | 0 ∡ 125 | 5°54 | 11°17 | 20°37 | 22°48 | 25°27 | 5°29 | 16°16 | 7°58 | 4°D48 | 6°23 | 2°45 | 7°10 | T 20 |
| W21 | 13 58 25 | 1°23'00 | 14°56 | 7°22 | 12°31 | 21° 6 | 22°57 | 25°35 | 5°32 | 16°17 | 7°58 | 4°48 | 6°20 | 2°52 | 7°13 | W21 |
| T 22 | 14 2 22 | 2°21'19 | 29°25 | 8°52 | 13°44 | 21°36 | 23° 6 | 25°42 | 5°35 | 16°18 | 7°59 | 4°49 | 6°17 | 2°58 | 7°17 | T 22 |
| F 23 | 14 6 19 | 3°19'37 | 13 る 48 | 10°23 | 14°58 | 22° 5 | 23°15 | 25°49 | 5°38 | 16°19 | 8° 0 | 4°51 | 6°14 | 3° 5 | 7°20 | F 23 |
| S 24 | 14 10 15 | 4°17'54 | 28° 1 | 11°57 | 16°11 | 22°35 | 23°24 | 25°57 | 5°41 | 16°19 | 8° 0 | 4°R51 | 6°10 | 3°12 | 7°23 | S 24 |
| S 25 | 14 14 12 | 5°16'09 | 12≈ 2 | 13°32 | 17°25 | 23° 5 | 23°33 | 26° 4 | 5°45 | 16°20 | 8° 1 | 4°51 | 6° 7 | 3°18 | 7°27 | S 25 |
| M26 | 14 18 8 | 6°14'22 | 25°52 | 15° 9 | 18°38 | 23°35 | 23°41 | 26°12 | 5°48 | 16°21 | 8° 2 | 4°50 | 6° 4 | 3°25 | 7°30 | M26 |
| T 27 | 14 22 5 | 7°12'34 | 9 米 29 | 16°48 | 19°52 | 24° 5 | 23°50 | 26°19 | 5°51 | 16°22 | 8° 3 | 4°48 | 6° 1 | 3°32 | 7°33 | T 27 |
| W28 | 14 26 1 | 8°10'44 | 22°52 | 18°29 | 21° 6 | 24°36 | 23°58 | 26°27 | 5°54 | 16°22 | 8° 4 | 4°44 | 5°58 | 3°38 | 7°37 | W28 |
| T 29 | 14 29 58 | 9° 8'53 | 6 ℃ 2 | 20°12 | 22°19 | 25° 6 | 24° 6 | 26°34 | 5°57 | 16°23 | 8° 5 | 4°40 | 5°55 | 3°45 | 7°40 | T 29 |
| F 30 | 14 33 54 | 108 7'00 | 18 Y 58 | 21 Y 56 | 23 Y 33 | 25937 | 24≈14 | 26 8 42 | 6 Υ 0 | 16≈24 | 8 9 5 | 4 ₹ 36 | 5 ₹ 51 | 3952 | 7 Ƴ 43 | F 30 |

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| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |) f (| ¥ | Р | 'n | ß | Ç | Ş. | Day |
|------|----------|------------------|----------------|----------------|----------------|----------------|-------|----------------|---------------|--------|--------------|---------------|----------------|---------------|---------------|------|
| S 1 | 14 37 51 | 118 5'06 | 1840 | 23 Y 43 | 24 Y 46 | 269 8 | 24≈22 | 26 8 50 | 6 Υ 3 | 16≈24 | 8 9 6 | 4°R33 | 5 ₹ 148 | 3 9 58 | 7 Υ 46 | S 1 |
| S 2 | 14 41 47 | 12° 3'10 | 14° 9 | 25°31 | 26° 0 | 26°39 | 24°30 | 26°57 | 6° 6 | 16°25 | 8° 7 | 4 ₹ 30 | 5°45 | 4° 5 | 7°50 | S 2 |
| M 3 | 14 45 44 | 13° 1'13 | 26°26 | 27°21 | 27°13 | 27°10 | 24°38 | 27° 5 | 6° 9 | 16°25 | 8° 8 | 4°29 | 5°42 | 4°12 | 7°53 | M 3 |
| T 4 | 14 49 41 | 13°59'14 | 8Ⅲ32 | 29°13 | 28°27 | 27°41 | 24°45 | 27°13 | 6°11 | 16°26 | 8° 9 | 4°D29 | 5°39 | 4°18 | 7°56 | T 4 |
| W 5 | 14 53 37 | 14°57'13 | 20°28 | 18 7 | 29°41 | 28°12 | 24°53 | 27°20 | 6°14 | 16°26 | 8°10 | 4°30 | 5°36 | 4°25 | 7°59 | W 5 |
| T 6 | 14 57 34 | 15°55'10 | 29519 | 3° 3 | 0 8 54 | 28°43 | 25° 0 | 27°28 | 6°17 | 16°27 | 8°11 | 4°31 | 5°32 | 4°32 | 8° 2 | T 6 |
| F 7 | 15 1 30 | 16°53'06 | 14° 8 | 5° 1 | 2° 8 | 29°15 | 25° 7 | 27°36 | 6°20 | 16°27 | 8°12 | 4°33 | 5°29 | 4°38 | 8° 5 | F 7 |
| S 8 | 15 5 27 | 17°51'00 | 25°58 | 7° 0 | 3°21 | 29°46 | 25°14 | 27°43 | 6°23 | 16°27 | 8°13 | 4°34 | 5°26 | 4°45 | 8° 8 | S 8 |
| S 9 | 15 9 23 | 18°48'52 | 7 Ω 54 | 9° 1 | 4°35 | 0Ω18 | 25°20 | 27°51 | 6°25 | 16°28 | 8°14 | 4°35 | 5°23 | 4°52 | 8°11 | S 9 |
| M10 | 15 13 20 | 19°46'42 | 20° 1 | 11° 4 | 5°48 | 0°50 | 25°27 | 27°59 | 6°28 | 16°28 | 8°15 | 4°R35 | 5°20 | 4°58 | 8°14 | M10 |
| T 11 | 15 17 17 | 20°44'31 | 2 m 24 | 13° 9 | 7° 2 | 1°22 | 25°33 | 28° 7 | 6°31 | 16°28 | 8°16 | 4°35 | 5°16 | 5° 5 | 8°17 | T 11 |
| W12 | 15 21 13 | 21°42'18 | 15° 6 | 15°15 | 8°15 | 1°54 | 25°40 | 28°14 | 6°34 | 16°29 | 8°18 | 4°34 | 5°13 | 5°12 | 8°20 | W12 |
| T 13 | 15 25 10 | 22°40'03 | 28°11 | 17°22 | 9°29 | 2°26 | 25°46 | 28°22 | 6°36 | 16°29 | 8°19 | 4°33 | 5°10 | 5°18 | 8°23 | T 13 |
| F 14 | 15 29 6 | 23°37'46 | 11 ≏ 41 | 19°31 | 10°42 | 2°58 | 25°52 | 28°30 | 6°39 | 16°29 | 8°20 | 4°31 | 5° 7 | 5°25 | 8°25 | F 14 |
| S 15 | 15 33 3 | 24°35'28 | 25°36 | 21°40 | 11°56 | 3°30 | 25°58 | 28°38 | 6°41 | 16°29 | 8°21 | 4°30 | 5° 4 | 5°32 | 8°28 | S 15 |
| S 16 | 15 36 59 | 25°33'08 | 9 M 55 | 23°51 | 13° 9 | 4° 3 | 26° 3 | 28°45 | 6°44 | 16°29 | 8°22 | 4°29 | 5° 1 | 5°38 | 8°31 | S 16 |
| M17 | 15 40 56 | 26°30'48 | 24°33 | 26° 2 | 14°23 | 4°35 | 26° 9 | 28°53 | 6°46 | 16°29 | 8°23 | 4°29 | 4°57 | 5°45 | 8°34 | M17 |
| T 18 | 15 44 52 | 27°28'25 | 9 × 23 | 28°14 | 15°37 | 5° 8 | 26°14 | 29° 1 | 6°49 | 16°29 | 8°24 | 4°D29 | 4°54 | 5°52 | 8°36 | T 18 |
| W19 | 15 48 49 | 28°26'02 | 24°19 | 0П25 | 16°50 | 5°40 | 26°19 | 29° 9 | 6°51 | 16°R29 | 8°26 | 4°29 | 4°51 | 5°58 | 8°39 | W19 |
| T 20 | 15 52 46 | 29°23'38 | 9 ට 12 | 2°37 | 18° 4 | 6°13 | 26°24 | 29°17 | 6°54 | 16°29 | 8°27 | 4°29 | 4°48 | 6° 5 | 8°42 | T 20 |
| F 21 | 15 56 42 | 0 Ⅲ 21'12 | 23°56 | 4°48 | 19°17 | 6°46 | 26°29 | 29°24 | 6°56 | 16°29 | 8°28 | 4°30 | 4°45 | 6°12 | 8°44 | F 21 |
| S 22 | 16 0 39 | 1°18'46 | 8 ≈ 24 | 6°58 | 20°31 | 7°19 | 26°34 | 29°32 | 6°58 | 16°29 | 8°29 | 4°30 | 4°42 | 6°18 | 8°47 | S 22 |
| S 23 | 16 435 | 2°16'19 | 22°34 | 9° 8 | 21°44 | 7°52 | 26°38 | 29°40 | 7° 1 | 16°29 | 8°31 | 4°30 | 4°38 | 6°25 | 8°49 | S 23 |
| M24 | 16 8 32 | 3°13'50 | 6 ∺ 23 | 11°16 | 22°58 | 8°25 | 26°42 | 29°48 | 7° 3 | 16°29 | 8°32 | 4°R30 | 4°35 | 6°32 | 8°52 | M24 |
| T 25 | 16 12 28 | 4°11'21 | 19°52 | 13°23 | 24°11 | 8°58 | 26°46 | 29°56 | 7° 5 | 16°29 | 8°33 | 4°D30 | 4°32 | 6°38 | 8°54 | T 25 |
| W26 | 16 16 25 | 5° 8'51 | 3 ℃ 2 | 15°28 | 25°25 | 9°31 | 26°50 | 0 I I 3 | 7° 7 | 16°28 | 8°34 | 4°30 | 4°29 | 6°45 | 8°56 | W26 |
| T 27 | 16 20 21 | 6° 6'21 | 15°54 | 17°31 | 26°38 | 10° 4 | 26°54 | 0°11 | 7° 9 | 16°28 | 8°36 | 4°30 | 4°26 | 6°52 | 8°59 | T 27 |
| F 28 | 16 24 18 | 7° 3'49 | 28°31 | 19°33 | 27°52 | 10°38 | 26°58 | 0°19 | 7°12 | 16°28 | 8°37 | 4°30 | 4°22 | 6°58 | 9° 1 | F 28 |
| S 29 | 16 28 14 | 8° 1'17 | 10855 | 21°32 | 29° 5 | 11°11 | 27° 1 | 0°27 | 7°14 | 16°27 | 8°38 | 4°31 | 4°19 | 7° 5 | 9° 3 | S 29 |
| S 30 | 16 32 11 | 8°58'44 | 23° 8 | 23°29 | 0 П 19 | 11°45 | 27° 4 | 0°35 | 7°16 | 16°27 | 8°40 | 4°31 | 4°16 | 7°12 | 9° 6 | S 30 |
| M31 | 16 36 8 | 9耳56'10 | 5 Ⅱ 11 | 25Ⅲ23 | 1 Ⅲ 33 | 12 Ω 18 | 27≈ 7 | 0 Ⅱ 42 | 7 Υ 18 | 16≈27 | 89641 | 4°R31 | 4 ₹ 13 | 79518 | 9 Υ 8 | M31 |
| | | - | | | | | | | | | | | | | | |

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Greg. Calendar

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| Day | Sid.t | 0 | D | φ | φ | ♂ | 4 | ħ |)Å(| ¥ | Р | ¥ | v | Ç | ę, | Day |
|------|----------|-------------------|----------------|-----------------|---------------|----------------|--------|---------------|---------------|--------|---------------|---------------|----------------|-------|---------------|------|
| T 1 | 16 40 4 | 10 耳 53'35 | 17 I 8 | 27 I I16 | 2 Ⅱ 46 | 12 N 52 | 27≈10 | 0 Ⅱ 50 | 7 Υ 20 | 16°R26 | 8 9 43 | 4°R31 | 4 ₹ 10 | 79525 | 9 Υ 10 | T 1 |
| W 2 | 16 44 1 | 11°51'00 | 29° 0 | 29° 5 | 4° 0 | 13°26 | 27°13 | 0°58 | 7°21 | 16≈26 | 8°44 | 4 ₹ 30 | 4° 7 | 7°32 | 9°12 | W 2 |
| T 3 | 16 47 57 | 12°48'23 | 10 9 49 | 0 9 53 | 5°13 | 14° 0 | 27°16 | 1° 5 | 7°23 | 16°25 | 8°45 | 4°30 | 4° 3 | 7°38 | 9°14 | T 3 |
| F 4 | 16 51 54 | 13°45'45 | 22°38 | 2°37 | 6°27 | 14°34 | 27°18 | 1°13 | 7°25 | 16°25 | 8°47 | 4°28 | 4° 0 | 7°45 | 9°16 | F 4 |
| S 5 | 16 55 50 | 14°43'07 | 4 Ω 29 | 4°19 | 7°41 | 15° 8 | 27°20 | 1°21 | 7°27 | 16°24 | 8°48 | 4°27 | 3°57 | 7°52 | 9°18 | S 5 |
| S 6 | 16 59 47 | 15°40'27 | 16°26 | 5°59 | 8°54 | 15°42 | 27°22 | 1°29 | 7°29 | 16°24 | 8°50 | 4°26 | 3°54 | 7°58 | 9°20 | S 6 |
| M 7 | 17 3 44 | 16°37'47 | 28°33 | 7°35 | 10° 8 | 16°16 | 27°24 | 1°36 | 7°30 | 16°23 | 8°51 | 4°25 | 3°51 | 8° 5 | 9°22 | M 7 |
| T 8 | 17 7 40 | 17°35'05 | 10 m 54 | 9°10 | 11°21 | 16°50 | 27°25 | 1°44 | 7°32 | 16°23 | 8°52 | 4°24 | 3°48 | 8°12 | 9°23 | T 8 |
| W 9 | 17 11 37 | 18°32'23 | 23°33 | 10°41 | 12°35 | 17°24 | 27°26 | 1°51 | 7°34 | 16°22 | 8°54 | 4°D24 | 3°44 | 8°18 | 9°25 | W 9 |
| T 10 | 17 15 33 | 19°29'40 | 6 ₾ 33 | 12°10 | 13°49 | 17°59 | 27°28 | 1°59 | 7°35 | 16°21 | 8°55 | 4°24 | 3°41 | 8°25 | 9°27 | T 10 |
| F 11 | 17 19 30 | 20°26'56 | 19°57 | 13°36 | 15° 2 | 18°33 | 27°29 | 2° 7 | 7°37 | 16°21 | 8°57 | 4°25 | 3°38 | 8°32 | 9°29 | F 11 |
| S 12 | 17 23 26 | 21°24'11 | 3 M .48 | 14°59 | 16°16 | 19° 8 | 27°29 | 2°14 | 7°38 | 16°20 | 8°58 | 4°27 | 3°35 | 8°38 | 9°30 | S 12 |
| S 13 | 17 27 23 | 22°21'25 | 18° 6 | 16°20 | 17°29 | 19°42 | 27°30 | 2°22 | 7°40 | 16°19 | 9° 0 | 4°28 | 3°32 | 8°45 | 9°32 | S 13 |
| M14 | 17 31 19 | 23°18'38 | 2 , 747 | 17°37 | 18°43 | 20°17 | 27°30 | 2°29 | 7°41 | 16°18 | 9° 1 | 4°R28 | 3°28 | 8°52 | 9°33 | M14 |
| T 15 | 17 35 16 | 24°15'52 | 17°47 | 18°52 | 19°57 | 20°52 | 27°31 | 2°37 | 7°42 | 16°17 | 9° 3 | 4°28 | 3°25 | 8°58 | 9°35 | T 15 |
| W16 | 17 39 13 | 25°13'04 | 2 ප 57 | 20° 4 | 21°10 | 21°26 | 27°R31 | 2°44 | 7°44 | 16°17 | 9° 4 | 4°26 | 3°22 | 9° 5 | 9°36 | W16 |
| T 17 | 17 43 9 | 26°10'16 | 18° 8 | 21°13 | 22°24 | 22° 1 | 27°30 | 2°51 | 7°45 | 16°16 | 9° 6 | 4°24 | 3°19 | 9°12 | 9°38 | T 17 |
| F 18 | 17 47 6 | 27° 7'28 | 3≈11 | 22°19 | 23°37 | 22°36 | 27°30 | 2°59 | 7°46 | 16°15 | 9° 7 | 4°21 | 3°16 | 9°18 | 9°39 | F 18 |
| S 19 | 17 51 2 | 28° 4'40 | 17°56 | 23°22 | 24°51 | 23°11 | 27°30 | 3° 6 | 7°47 | 16°14 | 9° 9 | 4°18 | 3°13 | 9°25 | 9°40 | S 19 |
| S 20 | 17 54 59 | 29° 1'52 | 2) 19 | 24°22 | 26° 5 | 23°46 | 27°29 | 3°13 | 7°48 | 16°13 | 9°10 | 4°16 | 3° 9 | 9°32 | 9°41 | S 20 |
| M21 | 17 58 55 | 29°59'03 | 16°16 | 25°18 | 27°18 | 24°21 | 27°28 | 3°21 | 7°50 | 16°12 | 9°12 | 4°14 | 3° 6 | 9°38 | 9°43 | M21 |
| T 22 | 18 2 52 | 0956'15 | 29°46 | 26°11 | 28°32 | 24°56 | 27°27 | 3°28 | 7°51 | 16°11 | 9°13 | 4°D13 | 3° 3 | 9°45 | 9°44 | T 22 |
| W23 | 18 6 48 | 1°53'27 | 12 Y 52 | 27° 0 | 29°46 | 25°32 | 27°25 | 3°35 | 7°52 | 16°10 | 9°15 | 4°14 | 3° 0 | 9°52 | 9°45 | W23 |
| T 24 | 18 10 45 | 2°50'38 | 25°36 | 27°46 | 199 0 | 26° 7 | 27°24 | 3°42 | 7°52 | 16° 9 | 9°16 | 4°15 | 2°57 | 9°58 | 9°46 | T 24 |
| F 25 | 18 14 42 | 3°47'50 | 8 8 2 | 28°28 | 2°13 | 26°42 | 27°22 | 3°49 | 7°53 | 16° 8 | 9°18 | 4°17 | 2°53 | 10° 5 | 9°47 | F 25 |
| S 26 | 18 18 38 | 4°45'02 | 20°14 | 29° 6 | 3°27 | 27°18 | 27°20 | 3°57 | 7°54 | 16° 7 | 9°19 | 4°18 | 2°50 | 10°12 | 9°48 | S 26 |
| S 27 | 18 22 35 | 5°42'15 | 2Ⅲ15 | 29°41 | 4°41 | 27°53 | 27°18 | 4° 4 | 7°55 | 16° 6 | 9°21 | 4°R19 | 2°47 | 10°18 | 9°49 | S 27 |
| M28 | 18 26 31 | 6°39'27 | 14°10 | 0 Ω 11 | 5°54 | 28°29 | 27°16 | 4°11 | 7°56 | 16° 4 | 9°22 | 4°19 | 2°44 | 10°25 | 9°49 | M28 |
| T 29 | 18 30 28 | 7°36'39 | 26° 0 | 0°37 | 7° 8 | 29° 4 | 27°13 | 4°18 | 7°56 | 16° 3 | 9°24 | 4°17 | 2°41 | 10°32 | 9°50 | T 29 |
| W30 | 18 34 24 | 8933'52 | 79549 | 0 Ω 58 | 8922 | 29 Ω 40 | 27≈11 | 4 Ⅱ 25 | 7 Ƴ 57 | 16≈ 2 | 9925 | 4 ₹ 13 | 2 , ₹38 | 10938 | 9 Υ 51 | W30 |

Delta T = 25.16 sec

JULY 1677 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Ŷ | ð | 4 | ħ |)f(| Ħ | Р | ß | Ω | Ç | ç | Day |
|------|----------|-----------------|-----------------|---------------|----------------|----------------|--------|---------------|---------------|----------------|----------------|--------------|---------------|--------|---------------|------|
| T 1 | 18 38 21 | 9931'04 | 19938 | 1 Ω 16 | 9936 | 0 m)16 | 27°R 8 | 4 ∏ 32 | 7 Ƴ 58 | 16°R 1 | 9 9 527 | 4°R 8 | 2 ₹ 34 | 109545 | 9 Υ 52 | T 1 |
| F 2 | 18 42 17 | 10°28'17 | 1 Ω 29 | 1°28 | 10°49 | 0°51 | 27≈ 5 | 4°38 | 7°58 | 16≈ 0 | 9°28 | 4 ₹ 2 | 2°31 | 10°52 | 9°52 | F 2 |
| S 3 | 18 46 14 | 11°25'29 | 13°25 | 1°36 | 12° 3 | 1°27 | 27° 2 | 4°45 | 7°59 | 15°58 | 9°30 | 3°55 | 2°28 | 10°58 | 9°53 | S 3 |
| S 4 | 18 50 11 | 12°22'42 | 25°27 | 1°R39 | 13°17 | 2° 3 | 26°58 | 4°52 | 7°59 | 15°57 | 9°31 | 3°48 | 2°25 | 11° 5 | 9°53 | S 4 |
| M 5 | 18 54 7 | 13°19'54 | 7 m 38 | 1°38 | 14°31 | 2°39 | 26°55 | 4°59 | 8° 0 | 15°56 | 9°33 | 3°43 | 2°22 | 11°12 | 9°54 | M 5 |
| T 6 | 18 58 4 | 14°17'06 | 20° 1 | 1°32 | 15°45 | 3°15 | 26°51 | 5° 5 | 8° 0 | 15°54 | 9°34 | 3°38 | 2°19 | 11°18 | 9°54 | T 6 |
| W 7 | 19 2 0 | 15°14'19 | 2 ॒ 39 | 1°21 | 16°58 | 3°51 | 26°47 | 5°12 | 8° 0 | 15°53 | 9°36 | 3°36 | 2°15 | 11°25 | 9°54 | W 7 |
| T 8 | 19 5 57 | 16°11'31 | 15°35 | 1° 5 | 18°12 | 4°27 | 26°43 | 5°19 | 8° 1 | 15°52 | 9°38 | 3°D35 | 2°12 | 11°32 | 9°55 | T 8 |
| F 9 | 19 9 53 | 17° 8'44 | 28°52 | 0°45 | 19°26 | 5° 3 | 26°39 | 5°25 | 8° 1 | 15°50 | 9°39 | 3°36 | 2° 9 | 11°38 | 9°55 | F 9 |
| S 10 | 19 13 50 | 18° 5'56 | 12 M 34 | 0°21 | 20°40 | 5°40 | 26°34 | 5°32 | 8° 1 | 15°49 | 9°41 | 3°37 | 2° 6 | 11°45 | 9°55 | S 10 |
| S 11 | 19 17 46 | 19° 3'09 | 26°42 | 29953 | 21°54 | 6°16 | 26°30 | 5°38 | 8° 1 | 15°48 | 9°42 | 3°R38 | 2° 3 | 11°52 | 9°55 | S 11 |
| M12 | 19 21 43 | 20° 0'22 | 11 × 15 | 29°21 | 23° 8 | 6°52 | 26°25 | 5°44 | 8° 1 | 15°46 | 9°44 | 3°38 | 1°59 | 11°58 | 9°55 | M12 |
| T 13 | 19 25 40 | 20°57'35 | 26° 9 | 28°46 | 24°22 | 7°29 | 26°20 | 5°51 | 8°R 1 | 15°45 | 9°45 | 3°36 | 1°56 | 12° 5 | 9°R55 | T 13 |
| W14 | 19 29 36 | 21°54'48 | 11 る 18 | 28° 8 | 25°35 | 8° 5 | 26°15 | 5°57 | 8° 1 | 15°43 | 9°47 | 3°32 | 1°53 | 12°12 | 9°55 | W14 |
| T 15 | 19 33 33 | 22°52'02 | 26°34 | 27°29 | 26°49 | 8°42 | 26°10 | 6° 3 | 8° 1 | 15°42 | 9°48 | 3°26 | 1°50 | 12°19 | 9°55 | T 15 |
| F 16 | 19 37 29 | 23°49'16 | 11 ≈ 45 | 26°48 | 28° 3 | 9°18 | 26° 4 | 6° 9 | 8° 1 | 15°40 | 9°50 | 3°19 | 1°47 | 12°25 | 9°55 | F 16 |
| S 17 | 19 41 26 | 24°46'31 | 26°41 | 26° 6 | 29°17 | 9°55 | 25°59 | 6°15 | 8° 1 | 15°39 | 9°51 | 3°12 | 1°44 | 12°32 | 9°55 | S 17 |
| S 18 | 19 45 22 | 25°43'46 | 11 ∺ 15 | 25°24 | 0 Ω 31 | 10°32 | 25°53 | 6°21 | 8° 0 | 15°37 | 9°53 | 3° 5 | 1°40 | 12°39 | 9°55 | S 18 |
| M19 | 19 49 19 | 26°41'03 | 25°20 | 24°43 | 1°45 | 11°8 | 25°47 | 6°27 | 8° 0 | 15°36 | 9°54 | 2°59 | 1°37 | 12°45 | 9°54 | M19 |
| T 20 | 19 53 15 | 27°38'20 | 8 Y 56 | 24° 3 | 2°59 | 11°45 | 25°41 | 6°33 | 8° 0 | 15°34 | 9°56 | 2°55 | 1°34 | 12°52 | 9°54 | T 20 |
| W21 | 19 57 12 | 28°35'38 | 22° 4 | 23°26 | 4°13 | 12°22 | 25°35 | 6°39 | 7°59 | 15°33 | 9°57 | 2°54 | 1°31 | 12°59 | 9°53 | W21 |
| T 22 | 20 1 9 | 29°32'58 | 4 8 47 | 22°51 | 5°27 | 12°59 | 25°29 | 6°45 | 7°59 | 15°31 | 9°58 | 2°D54 | 1°28 | 13° 5 | 9°53 | T 22 |
| F 23 | 20 5 5 | $0\Omega 30'18$ | 17°10 | 22°20 | 6°41 | 13°36 | 25°23 | 6°50 | 7°59 | 15°30 | 10° 0 | 2°54 | 1°25 | 13°12 | 9°52 | F 23 |
| S 24 | 20 9 2 | 1°27'40 | 29°17 | 21°54 | 7°54 | 14°13 | 25°16 | 6°56 | 7°58 | 15°28 | 10° 1 | 2°R55 | 1°21 | 13°19 | 9°52 | S 24 |
| S 25 | 20 12 58 | 2°25'02 | 11 II 13 | 21°31 | 9° 8 | 14°50 | 25°10 | 7° 2 | 7°58 | 15°27 | 10° 3 | 2°55 | 1°18 | 13°25 | 9°51 | S 25 |
| M26 | 20 16 55 | 3°22'26 | 23° 3 | 21°15 | 10°22 | 15°27 | 25° 3 | 7° 7 | 7°57 | 15°25 | 10° 4 | 2°53 | 1°15 | 13°32 | 9°51 | M26 |
| T 27 | 20 20 51 | 4°19'50 | 4951 | 21° 3 | 11°36 | 16° 4 | 24°56 | 7°13 | 7°56 | 15°23 | 10° 6 | 2°48 | 1°12 | 13°39 | 9°50 | T 27 |
| W28 | 20 24 48 | 5°17'16 | 16°40 | 20°D58 | 12°50 | 16°42 | 24°49 | 7°18 | 7°56 | 15°22 | 10° 7 | 2°41 | 1° 9 | 13°45 | 9°49 | W28 |
| T 29 | 20 28 44 | 6°14'42 | 28°32 | 20°59 | 14° 4 | 17°19 | 24°42 | 7°23 | 7°55 | 15°20 | 10°8 | 2°32 | 1° 5 | 13°52 | 9°48 | T 29 |
| F 30 | 20 32 41 | 7°12'10 | 10 Ω 29 | 21° 6 | 15°18 | 17°56 | 24°35 | 7°28 | 7°54 | 15°19 | 10°10 | 2°21 | 1° 2 | 13°59 | 9°47 | F 30 |
| S 31 | 20 36 38 | 8 N 9'38 | 22 N 33 | 219520 | 16 Ω 32 | 18 M 34 | 24≈28 | 7 Ⅱ 34 | 7 Υ 53 | 15 ≈ 17 | 109511 | 2 ₹ 9 | 0 才 59 | 1495 5 | 9 Υ 46 | S 31 |

Delta T = 25.11 sec

Greg. Calendar

| AUGUST 1677 GC | 00:00 UT |
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| AUGUST 10// GC | 00.00 01 |

| Day | Sid.t | 0 | D | φ | φ | ঠ | 4 | ħ |)∤(| ¥ | Р | ß | ಬ | ţ | × 0 | Day |
|------|----------|-----------------|----------------|---------------|----------------|-----------------|--------|----------------|---------------|--------|--------|-----------------|---------------|--------|---------------|------|
| S 1 | 20 40 34 | 9 Ω 7'08 | 4 Mp 45 | 219540 | 17 Ω 47 | 19 m y11 | 24°R21 | 7 I I39 | 7°R52 | 15°R15 | 109513 | 1°R57 | 0 才 56 | 149512 | 9°R45 | S 1 |
| M 2 | 20 44 31 | 10° 4'38 | 17° 6 | 22° 7 | 19° 1 | 19°49 | 24≈13 | 7°44 | 7 Υ 51 | 15≈14 | 10°14 | 1 ∡ 746 | 0°53 | 14°19 | 9 Ƴ 44 | M 2 |
| T 3 | 20 48 27 | 11° 2'09 | 29°38 | 22°41 | 20°15 | 20°26 | 24° 6 | 7°48 | 7°50 | 15°12 | 10°15 | 1°38 | 0°50 | 14°25 | 9°43 | T 3 |
| W 4 | 20 52 24 | 11°59'41 | 12 ≏ 22 | 23°21 | 21°29 | 21° 4 | 23°58 | 7°53 | 7°49 | 15°10 | 10°17 | 1°32 | 0°46 | 14°32 | 9°42 | W 4 |
| T 5 | 20 56 20 | 12°57'14 | 25°20 | 24° 8 | 22°43 | 21°42 | 23°51 | 7°58 | 7°48 | 15° 9 | 10°18 | 1°28 | 0°43 | 14°39 | 9°41 | T 5 |
| F 6 | 21 0 17 | 13°54'48 | 8 M .35 | 25° 1 | 23°57 | 22°20 | 23°43 | 8° 3 | 7°47 | 15° 7 | 10°19 | 1°D27 | 0°40 | 14°45 | 9°40 | F 6 |
| S 7 | 21 4 13 | 14°52'23 | 22°10 | 26° 1 | 25°11 | 22°57 | 23°35 | 8° 7 | 7°46 | 15° 6 | 10°21 | 1°27 | 0°37 | 14°52 | 9°38 | S 7 |
| S 8 | 21 8 10 | 15°49'58 | 6 ₹ 7 | 27° 7 | 26°25 | 23°35 | 23°28 | 8°12 | 7°45 | 15° 4 | 10°22 | 1°R27 | 0°34 | 14°59 | 9°37 | S 8 |
| M 9 | 21 12 7 | 16°47'35 | 20°25 | 28°19 | 27°39 | 24°13 | 23°20 | 8°16 | 7°44 | 15° 2 | 10°23 | 1°26 | 0°31 | 15° 6 | 9°36 | M 9 |
| T 10 | 21 16 3 | 17°45'13 | 5 る 4 | 29°36 | 28°53 | 24°51 | 23°12 | 8°21 | 7°42 | 15° 1 | 10°24 | 1°23 | 0°27 | 15°12 | 9°34 | T 10 |
| W11 | 21 20 0 | 18°42'51 | 19°59 | 0 Ω 59 | 0 m) 7 | 25°29 | 23° 4 | 8°25 | 7°41 | 14°59 | 10°26 | 1°17 | 0°24 | 15°19 | 9°33 | W11 |
| T 12 | 21 23 56 | 19°40'31 | 5≈ 3 | 2°27 | 1°21 | 26° 7 | 22°57 | 8°29 | 7°40 | 14°57 | 10°27 | 1° 9 | 0°21 | 15°26 | 9°31 | T 12 |
| F 13 | 21 27 53 | 20°38'12 | 20° 7 | 3°59 | 2°35 | 26°45 | 22°49 | 8°33 | 7°38 | 14°56 | 10°28 | 0°58 | 0°18 | 15°32 | 9°30 | F 13 |
| S 14 | 21 31 49 | 21°35'55 | 5 ₩ 0 | 5°36 | 3°49 | 27°24 | 22°41 | 8°37 | 7°37 | 14°54 | 10°29 | 0°47 | 0°15 | 15°39 | 9°28 | S 14 |
| S 15 | 21 35 46 | 22°33'38 | 19°34 | 7°17 | 5° 3 | 28° 2 | 22°33 | 8°41 | 7°35 | 14°53 | 10°31 | 0°37 | 0°11 | 15°46 | 9°26 | S 15 |
| M16 | 21 39 42 | 23°31'24 | 3 Υ43 | 9° 2 | 6°17 | 28°40 | 22°25 | 8°45 | 7°34 | 14°51 | 10°32 | 0°28 | 0° 8 | 15°52 | 9°25 | M16 |
| T 17 | 21 43 39 | 24°29'11 | 17°23 | 10°50 | 7°31 | 29°18 | 22°17 | 8°48 | 7°32 | 14°49 | 10°33 | 0°22 | 0° 5 | 15°59 | 9°23 | T 17 |
| W18 | 21 47 36 | 25°26'59 | 0 8 35 | 12°40 | 8°45 | 29°57 | 22° 9 | 8°52 | 7°31 | 14°48 | 10°34 | 0°18 | 0° 2 | 16° 6 | 9°21 | W18 |
| T 19 | 21 51 32 | 26°24'50 | 13°21 | 14°33 | 9°59 | 0 ჲ 35 | 22° 2 | 8°56 | 7°29 | 14°46 | 10°35 | 0°16 | 29M59 | 16°12 | 9°19 | T 19 |
| F 20 | 21 55 29 | 27°22'42 | 25°45 | 16°28 | 11°14 | 1°14 | 21°54 | 8°59 | 7°28 | 14°45 | 10°36 | 0°16 | 29°56 | 16°19 | 9°17 | F 20 |
| S 21 | 21 59 25 | 28°20'36 | 7 Ⅱ 52 | 18°24 | 12°28 | 1°52 | 21°46 | 9° 2 | 7°26 | 14°43 | 10°38 | 0°16 | 29°52 | 16°26 | 9°16 | S 21 |
| S 22 | 22 3 22 | 29°18'32 | 19°48 | 20°21 | 13°42 | 2°31 | 21°38 | 9° 6 | 7°24 | 14°41 | 10°39 | 0°15 | 29°49 | 16°32 | 9°14 | S 22 |
| M23 | 22 7 18 | 0 mg 16'30 | 19537 | 22°19 | 14°56 | 3°10 | 21°30 | 9° 9 | 7°22 | 14°40 | 10°40 | 0°12 | 29°46 | 16°39 | 9°12 | M23 |
| T 24 | 22 11 15 | 1°14'29 | 13°26 | 24°17 | 16°10 | 3°48 | 21°23 | 9°12 | 7°21 | 14°38 | 10°41 | 0° 7 | 29°43 | 16°46 | 9°10 | T 24 |
| W25 | 22 15 11 | 2°12'30 | 25°17 | 26°15 | 17°24 | 4°27 | 21°15 | 9°15 | 7°19 | 14°37 | 10°42 | 29M59 | 29°40 | 16°53 | 9° 7 | W25 |
| T 26 | 22 19 8 | 3°10'34 | 7Ω 14 | 28°14 | 18°38 | 5° 6 | 21° 8 | 9°18 | 7°17 | 14°35 | 10°43 | 29°48 | 29°37 | 16°59 | 9° 5 | T 26 |
| F 27 | 22 23 5 | 4° 8'38 | 19°20 | 0 Mp 12 | 19°52 | 5°45 | 21° 0 | 9°20 | 7°15 | 14°34 | 10°44 | 29°36 | 29°33 | 17° 6 | 9° 3 | F 27 |
| S 28 | 22 27 1 | 5° 6'45 | 1 m 35 | 2° 9 | 21° 6 | 6°24 | 20°53 | 9°23 | 7°13 | 14°32 | 10°45 | 29°22 | 29°30 | 17°13 | 9° 1 | S 28 |
| S 29 | 22 30 58 | 6° 4'53 | 14° 1 | 4° 6 | 22°20 | 7° 3 | 20°45 | 9°26 | 7°11 | 14°31 | 10°46 | 29° 8 | 29°27 | 17°19 | 8°59 | S 29 |
| M30 | 22 34 54 | 7° 3'03 | 26°37 | 6° 2 | 23°35 | 7°42 | 20°38 | 9°28 | 7° 9 | 14°29 | 10°47 | 28°56 | 29°24 | 17°26 | 8°57 | M30 |
| T 31 | 22 38 51 | 8Mp 1'14 | 9 ჲ 25 | 7 m 58 | 24 Mp 49 | 8 ₾ 21 | 20≈31 | 9 ∏ 31 | 7 ℃ 7 | 14≈28 | 109548 | 28 M .46 | 29M21 | 17933 | 8 Ƴ 54 | T 31 |

Delta T = 25.06 sec

SEPTEMBER 1677 GC 00:00 UT

| Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| # | Р | U | v | Ç | Ŷ, | Day |
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| 22 42 47 | 8 m 59'27 | 22 £ 23 | 9 m 52 | 26M) 3 | ව ⊽ 0 | 20°R24 | 9 ∏ 33 | 7°R 5 | 14°R26 | 109549 | 28°R39 | 29 M 17 | 17939 | 8°R52 | W 1 |
| - | | | - | | | | | | - | | | - | | | T 2 |
| | | | | | - | | | , - | _ | | | - | | | F 3 |
| 22 54 37 | 11°54'16 | 2 × '32 | 15°29 | 29°45 | 10°58 | 20° 3 | 9°39 | 6°59 | 14°22 | 10°51 | 28°D33 | 29° 8 | 17°59 | 8°45 | S 4 |
| 22 58 34 | 12°52'36 | 16°24 | 17°19 | ე ჲ 59 | 11°38 | 19°56 | 9°41 | 6°57 | 14°21 | 10°52 | 28°R33 | 29° 5 | 18° 6 | 8°42 | S 5 |
| 23 2 30 | 13°50'57 | . — . | | 2°13 | 12°17 | | - | 6°55 | | 10°53 | | | | | M 6 |
| | | | | | | | - | | | | | | | | T 7 |
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| 23 22 13 | 18-43-05 | | | | | | | 0-44 | _ | | | | | | |
| 23 26 9 | 19°41'36 | | | | | -, | | 6°41 | | | | - | | | S 12 |
| | | | | | | | | | - | | | | | | M13 |
| | | - | | - | | - | | | - | | | | | | T 14 |
| | | | | | | | | | - | | | | | | W15 T 16 |
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| | | | - | | | | | | | | | _ | -, | | T 21 W22 |
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| | | - | | | | _ | | | | | | - | | | |
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| | | _ | | | - | | | | | _ | | | | | T 28 |
| | - | | | - | | _ | | | | - | - | | | | W29 |
| | | | | | - | | | | | _ | | | | | T 30 |
| | 22 42 47 22 46 44 22 50 40 22 54 37 22 58 34 23 2 30 23 6 27 23 10 23 23 14 20 23 18 16 23 22 13 23 26 9 23 30 6 23 34 2 23 37 59 23 41 56 23 45 52 23 49 49 23 57 42 0 1 38 0 5 35 0 9 31 0 13 28 0 17 25 0 21 21 0 25 18 0 29 14 0 33 11 | 22 42 47 8 m/59'27 22 46 44 9°57'42 22 50 40 10°55'59 22 54 37 11°54'16 22 58 34 12°52'36 23 2 30 13°50'57 23 6 27 14°49'19 23 10 23 15°47'43 23 14 20 16°46'09 23 18 16 17°44'36 23 22 13 18°43'05 23 26 9 19°41'36 23 30 6 20°40'09 23 34 2 21°38'44 23 37 59 22°37'21 23 41 56 23°36'01 23 45 52 24°34'42 23 49 49 25°33'26 23 53 45 26°32'12 23 57 42 27°31'01 0 1 38 28°29'51 0 5 35 29°28'44 0 9 31 0 27'39 0 13 28 1°26'36 0 17 25 2°25'36 0 21 21 3°24'37 0 25 18 4°23'41 0 29 14 5°22'47 0 33 11 6°21'54 | 22 42 47 8 m 59'27 22 23 23 46 44 9°57'42 5 m 33 22 50 40 10°55'59 18°56 22 54 37 11°54'16 2 33 2 30 13°50'57 0 31 23 6 27 14°49'19 14°53 23 10 23 15°47'43 29°27 23 14 20 16°46'09 14≈ 8 23 18 16 17°44'36 28°51 23 22 13 18°43'05 13 €26 23 26 9 19°41'36 27°47 23 30 6 20°40'09 11 €8 23 34 2 21°38'44 25°24 23 37 59 22°37'21 8 35 23 41 56 23°36'01 21°22 23 45 52 24°34'42 3 1148 23 49 49 25°33'26 15°57 23 53 45 26°32'12 27°55 23 57 42 27°31'01 9 €46 0 1 38 28°29'51 21°36 0 5 35 29°28'44 3 €30 0 9 31 0 €27'39 15°32 0 13 28 1°26'36 27°45 0 17 25 2°25'36 10 €11 0 21 21 3°24'37 22°51 0 25 18 4°23'41 5 €45 0 29 14 5°22'47 18°54 0 33 11 6°21'54 2 €111 | 22 42 47 8 | 22 42 47 8 | 22 42 47 8 m 59'27 22 ⊕23 9 m 52 26 m 3 9 ⊕ 0 22 46 44 9°57'42 5 m 3 11°45 27°17 9°40 22 50 40 10°55'59 18°56 13°37 28°31 10°19 22 54 37 11°54'16 2 √32 15°29 29°45 10°58 22 58 34 12°52'36 16°24 17°19 0 ⊕59 11°38 23 2 30 13°50'57 0 √31 19° 8 2°13 12°17 23 6 27 14°49'19 14°53 20°56 3°27 12°57 23 10 23 15°47'43 29°27 22°42 4°41 13°36 23 14 20 16°46'09 14≈ 8 24°28 5°55 14°16 23 18 16 17°44'36 28°51 26°12 7° 9 14°56 23 22 13 18°43'05 13 √26 27°56 8°23 15°35 23 26 9 19°41'36 27°47 29°38 9°37 16°15 23 30 6 20°40'09 11 √48 1 ⊕20 10°51 16°55 23 34 2 21°38'44 25°24 3° 0 12° 6 17°35 23 37 59 22°37'21 8 √35 4°39 13°20 18°15 23 41 56 23°36'01 21°22 6°18 14°34 18°55 23 45 52 24°34'42 3 | 22 42 47 8 m 59'27 22 ⊕23 9 m 52 26 m 3 9 ⊕ 0 20°R24 22 46 44 9°57'42 5 m.33 11°45 27°17 9°40 20≈17 22 50 40 10°55'59 18°56 13°37 28°31 10°19 20°10 22 54 37 11°54'16 2 √32 15°29 29°45 10°58 20° 3 22 58 34 12°52'36 16°24 17°19 0 ⊕59 11°38 19°56 23 2 30 13°50'57 0 √31 19° 8 2°13 12°17 19°50 23 6 27 14°49'19 14°53 20°56 3°27 12°57 19°43 23 10 23 15°47'43 29°27 22°42 4°41 13°36 19°37 23 14 20 16°46'09 14≈ 8 24°28 5°55 14°16 19°31 23 18 16 17°44'36 28°51 26°12 7° 9 14°56 19°25 23 22 13 18°43'05 13 √26 27°56 8°23 15°35 19°19 23 26 9 19°41'36 27°47 29°38 9°37 16°15 19°13 23 30 6 20°40'09 11 √48 1 ⊕20 10°51 16°55 19° 7 23 34 2 21°38'44 25°24 3° 0 12° 6 17°35 19° 2 23 37 59 22°37'21 8 √35 4°39 13°20 18°15 18°57 23 45 52 24°34'42 3 √48 7°55 15°48 19°35 18°46 23 49 49 25°33'26 15°55 11° 1 ° 18°16 20°55 18°37 23 57 42 27°31'01 9 ⊕46 12°41 19°30 21°36 18°32 0 13 8 28°29'51 21°36 14°15 20°44 22°16 18°28 0 5 35 29°28'44 30°30 15°47 21°58 22°56 18°24 0 9 31 0 ⊕27'39 15°32 17°19 23°11 23°37 18°26 0 13 8 28°29'51 21°36 14°15 20°44 22°16 18°28 0 5 35 29°28'44 30°30 15°47 21°58 22°56 18°24 0 9 31 0 ⊕27'39 15°32 17°19 23°11 23°37 18°20 0 13 28 1°26'36 27°45 18°50 24°25 24°17 18°16 0 17 25 2°25'36 10 √11 20°20 25°39 24°58 18°12 0 25 18 4°23'41 5 ⊕25'14 18°54 24°44 29°21 27°0 18° 20°31 11°59 18°24 0 25°18 4°23'41 5 ⊕45 23°17 28° 7 26°19 18° 5 0 29 14 5°22'47 18°54 24°44 29°21 27°0 18° 22°0 18°25 18°31 16°21'54 27°14 26°10 0 €35 27°41 17°59 | 22 42 47 8 m 59'27 22 | 22 42 47 8 m 59'27 22 22 3 9 m 52 26 m 3 9 0 20°R24 9 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 22 42 47 8 8 59 57 7 22 23 3 9 8 52 26 8 3 9 40 20 824 9 13 3 7°R 5 14°R26 10 26 49 22 46 44 9°57 42 5 10 3 11°45 27°17 9°40 20 ≈17 9°35 7 7 3 14 ≈25 10°49 22 50 40 10°55 59 18°56 13°37 28°31 10°19 20°10 9°37 7° 1 14°23 10°50 22 54 37 11°54 16 2 3 21 5°29 29°45 10°58 20° 3 9°39 6°59 14°22 10°51 22 58 34 12°52 36 16°24 17°19 0 | 22 42 47 8 mp 59'27 22 23 9 mp 52 26 mp 3 9 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 22 42 47 8 m 59°27 22 ±23 9 m 52 2 6 m 3 9 ± 0 2 0°R24 9 ± 33 7°R 5 14°R26 10©49 28°R39 29 m 17 17©39 22 46 44 9°57°42 5 m 33 11°45 27°17 9°40 20≈10 9°37 7°8 1 4°22 10°49 28 m 35 29°14 17°45 22 50 40 10°55°59 18°56 13°37 28°31 10°19 20°10 9°37 7° 1 14°22 10°50 28°34 29°11 17°53 22 58 34 12°52'36 16°24 17°19 0±59 11°38 19°56 9°41 6°57 14°21 10°53 28°33 29° 5 18° 6 23 2 30 13°50'57 0₹31 19° 8 2°13 12°17 19°50 9°43 6°55 14°21 10°53 28°33 29° 5 18° 6 23 1 023 15°47'43 29°27 22°42 4°41 13°36 19°37 9°44 6°52 14°18 10°53 28°42 18°51 </td <td>22 42 47 8</td> | 22 42 47 8 |

Delta T = 25.01 sec

Greg. Calendar

OCTOBER 1677 GC 00:00 UT

| Day | Sid.t | 0 | 9 | φ | φ | δ | 4 | ħ |)ұ(| ¥ | 2 | ß | Ω | ţ | K _O | Day |
|------|---------|-------------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|--------|----------------|----------------|--------|----------------|------|
| F 1 | 0 41 4 | 8 ₾ 20'16 | 29 M 27 | 29 ♀ 0 | 3M 3 | 29 요 2 | 17°R54 | 9°R51 | 5°R56 | 13°R52 | 1199 6 | 26°D16 | 27 M 42 | 2199 0 | 7°R32 | F 1 |
| S 2 | 0 45 0 | 9°19'29 | 13 × 17 | 0 M 23 | 4°17 | 29°43 | 17≈52 | 9 Ⅱ 50 | 5 Ƴ 54 | 13≈51 | 11° 6 | 26 M 17 | 27°39 | 21° 7 | 7 Ƴ 30 | S 2 |
| S 3 | 0 48 57 | 10°18'44 | 27°15 | 1°46 | 5°31 | 0 M 24 | 17°50 | 9°48 | 5°51 | 13°50 | 11° 7 | 26°18 | 27°36 | 21°13 | 7°27 | S 3 |
| M 4 | 0 52 54 | 11°18'01 | 11る20 | 3° 7 | 6°45 | 1° 5 | 17°48 | 9°47 | 5°49 | 13°50 | 11° 7 | 26°R19 | 27°33 | 21°20 | 7°24 | M 4 |
| T 5 | 0 56 50 | 12°17'20 | 25°32 | 4°27 | 7°59 | 1°46 | 17°46 | 9°46 | 5°46 | 13°49 | 11° 7 | 26°18 | 27°29 | 21°27 | 7°21 | T 5 |
| W 6 | 1 0 47 | 13°16'41 | 9≈48 | 5°46 | 9°13 | 2°28 | 17°44 | 9°44 | 5°44 | 13°48 | 11° 7 | 26°16 | 27°26 | 21°34 | 7°18 | W 6 |
| T 7 | 1 4 43 | 14°16'03 | 24° 5 | 7° 4 | 10°26 | 3° 9 | 17°43 | 9°42 | 5°41 | 13°48 | 11° 7 | 26°11 | 27°23 | 21°40 | 7°16 | T 7 |
| F 8 | 1 8 40 | 15°15'27 | 8 ∺ 20 | 8°20 | 11°40 | 3°50 | 17°42 | 9°41 | 5°39 | 13°47 | 11° 7 | 26° 5 | 27°20 | 21°47 | 7°13 | F 8 |
| S 9 | 1 12 36 | 16°14'52 | 22°28 | 9°35 | 12°54 | 4°31 | 17°41 | 9°39 | 5°37 | 13°47 | 11° 7 | 25°59 | 27°17 | 21°54 | 7°10 | S 9 |
| S 10 | 1 16 33 | 17°14'20 | 6 Υ 24 | 10°49 | 14° 8 | 5°13 | 17°40 | 9°37 | 5°34 | 13°46 | 11° 7 | 25°52 | 27°14 | 22° 0 | 7° 7 | S 10 |
| M11 | 1 20 29 | 18°13'50 | 20° 5 | 12° 1 | 15°22 | 5°54 | 17°40 | 9°35 | 5°32 | 13°46 | 11°R 7 | 25°47 | 27°10 | 22° 7 | 7° 4 | M11 |
| T 12 | 1 24 26 | 19°13'22 | 3 8 27 | 13°11 | 16°35 | 6°36 | 17°39 | 9°33 | 5°30 | 13°45 | 11° 7 | 25°43 | 27° 7 | 22°14 | 7° 2 | T 12 |
| W13 | 1 28 23 | 20°12'55 | 16°29 | 14°19 | 17°49 | 7°17 | 17°D39 | 9°30 | 5°27 | 13°45 | 11° 7 | 25°41 | 27° 4 | 22°20 | 6°59 | W13 |
| T 14 | 1 32 19 | 21°12'32 | 29°12 | 15°25 | 19° 3 | 7°59 | 17°39 | 9°28 | 5°25 | 13°44 | 11° 7 | 25°D41 | 27° 1 | 22°27 | 6°56 | T 14 |
| F 15 | 1 36 16 | 22°12'10 | 11 川 37 | 16°29 | 20°17 | 8°41 | 17°40 | 9°26 | 5°23 | 13°44 | 11° 7 | 25°42 | 26°58 | 22°34 | 6°54 | F 15 |
| S 16 | 1 40 12 | 23°11'50 | 23°46 | 17°30 | 21°31 | 9°22 | 17°40 | 9°23 | 5°20 | 13°44 | 11° 7 | 25°44 | 26°54 | 22°41 | 6°51 | S 16 |
| S 17 | 1 44 9 | 24°11'33 | 59945 | 18°29 | 22°44 | 10° 4 | 17°41 | 9°20 | 5°18 | 13°43 | 11° 7 | 25°45 | 26°51 | 22°47 | 6°48 | S 17 |
| M18 | 1 48 5 | 25°11'18 | 17°38 | 19°25 | 23°58 | 10°46 | 17°42 | 9°18 | 5°16 | 13°43 | 11° 7 | 25°47 | 26°48 | 22°54 | 6°46 | M18 |
| T 19 | 1 52 2 | 26°11'06 | 29°29 | 20°17 | 25°12 | 11°28 | 17°43 | 9°15 | 5°14 | 13°43 | 11° 7 | 25°R47 | 26°45 | 23° 1 | 6°43 | T 19 |
| W20 | 1 55 58 | 27°10'55 | 11 Ω 24 | 21° 6 | 26°25 | 12°10 | 17°44 | 9°12 | 5°12 | 13°43 | 11° 6 | 25°46 | 26°42 | 23° 7 | 6°40 | W20 |
| T 21 | 1 59 55 | 28°10'47 | 23°27 | 21°50 | 27°39 | 12°52 | 17°45 | 9° 9 | 5° 9 | 13°42 | 11° 6 | 25°44 | 26°39 | 23°14 | 6°38 | T 21 |
| F 22 | 2 3 51 | 29°10'41 | 5 Mp 42 | 22°30 | 28°53 | 13°34 | 17°47 | 9° 6 | 5° 7 | 13°42 | 11° 6 | 25°40 | 26°35 | 23°21 | 6°35 | F 22 |
| S 23 | 2 7 48 | 0 M 10'37 | 18°14 | 23° 5 | 0 ≯ 6 | 14°16 | 17°49 | 9° 3 | 5° 5 | 13°42 | 11° 6 | 25°36 | 26°32 | 23°27 | 6°33 | S 23 |
| S 24 | 2 11 45 | 1°10'35 | 1 ♀ 4 | 23°34 | 1°20 | 14°58 | 17°51 | 8°59 | 5° 3 | 13°42 | 11° 5 | 25°32 | 26°29 | 23°34 | 6°30 | S 24 |
| M25 | 2 15 41 | 2°10'35 | 14°13 | 23°57 | 2°34 | 15°41 | 17°53 | 8°56 | 5° 1 | 13°D42 | 11° 5 | 25°28 | 26°26 | 23°41 | 6°28 | M25 |
| T 26 | 2 19 38 | 3°10'37 | 27°40 | 24°14 | 3°47 | 16°23 | 17°56 | 8°52 | 4°59 | 13°42 | 11° 5 | 25°25 | 26°23 | 23°48 | 6°25 | T 26 |
| W27 | 2 23 34 | 4°10'42 | 11 M 25 | 24°23 | 5° 1 | 17° 5 | 17°58 | 8°49 | 4°57 | 13°42 | 11° 4 | 25°24 | 26°19 | 23°54 | 6°23 | W27 |
| T 28 | 2 27 31 | 5°10'48 | 25°23 | 24°R24 | 6°15 | 17°48 | 18° 1 | 8°45 | 4°55 | 13°42 | 11° 4 | 25°D23 | 26°16 | 24° 1 | 6°21 | T 28 |
| F 29 | 2 31 27 | 6°10'56 | 9 ₹ 32 | 24°16 | 7°28 | 18°30 | 18° 4 | 8°42 | 4°53 | 13°42 | 11° 4 | 25°24 | 26°13 | 24° 8 | 6°18 | F 29 |
| S 30 | 2 35 24 | 7°11'05 | 23°47 | 23°59 | 8°42 | 19°13 | 18° 7 | 8°38 | 4°51 | 13°42 | 11° 3 | 25°25 | 26°10 | 24°14 | 6°16 | S 30 |
| S 31 | 2 39 20 | 8 M L11'16 | 8 ප 4 | 23 M 33 | 9 ₹ 755 | 19 M 56 | 18 ≈ 11 | 8耳34 | 4Ƴ 49 | 13 ≈ 43 | 1199 3 | 25 M 26 | 26M 7 | 249521 | 6 Υ 14 | S 31 |

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NOVEMBER 1677 GC 00:00 UT

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|------|---------|-------------------|----------------|-----------------|----------------|----------------|-------|---------------|---------------|-------|--------|----------------|-------|--------|---------------|------|
| M 1 | 2 43 17 | 9ML11'29 | 22 중 21 | 22°R57 | 11 才 9 | 20MJ38 | 18≈15 | 8°R30 | 4°R47 | 13≈43 | 11°R 2 | 25 M 27 | 26M 4 | 249528 | 6°R11 | M 1 |
| T 2 | 2 47 14 | 10°11'43 | 6≈34 | 22 M 11 | 12°22 | 21°21 | 18°18 | 8Д26 | $4\Upsilon45$ | 13°43 | 1199 2 | 25°R28 | 26° 0 | 24°34 | 6 Υ 9 | T 2 |
| W 3 | 2 51 10 | 11°11'59 | 20°42 | 21°16 | 13°36 | 22° 4 | 18°22 | 8°22 | 4°43 | 13°43 | 11° 1 | 25°28 | 25°57 | 24°41 | 6° 7 | W 3 |
| T 4 | 2 55 7 | 12°12'16 | 4) €42 | 20°12 | 14°49 | 22°46 | 18°27 | 8°18 | 4°42 | 13°44 | 11° 1 | 25°27 | 25°54 | 24°48 | 6° 5 | T 4 |
| F 5 | 2 59 3 | 13°12'34 | 18°33 | 19° 1 | 16° 3 | 23°29 | 18°31 | 8°14 | 4°40 | 13°44 | 11° 0 | 25°25 | 25°51 | 24°55 | 6° 3 | F 5 |
| S 6 | 3 3 0 | 14°12'54 | 2 Υ 13 | 17°45 | 17°16 | 24°12 | 18°36 | 8° 9 | 4°38 | 13°44 | 10°59 | 25°24 | 25°48 | 25° 1 | 6° 1 | S 6 |
| S 7 | 3 6 56 | 15°13'16 | 15°42 | 16°25 | 18°30 | 24°55 | 18°40 | 8° 5 | 4°36 | 13°45 | 10°59 | 25°22 | 25°45 | 25° 8 | 5°59 | S 7 |
| M 8 | 3 10 53 | 16°13'39 | 28°56 | 15° 5 | 19°43 | 25°38 | 18°45 | 8° 1 | 4°35 | 13°45 | 10°58 | 25°21 | 25°41 | 25°15 | 5°57 | M 8 |
| T 9 | 3 14 49 | 17°14'03 | 11 8 57 | 13°47 | 20°56 | 26°21 | 18°50 | 7°56 | 4°33 | 13°46 | 10°58 | 25°21 | 25°38 | 25°21 | 5°55 | T 9 |
| W10 | 3 18 46 | 18°14'30 | 24°43 | 12°33 | 22°10 | 27° 5 | 18°56 | 7°52 | 4°32 | 13°46 | 10°57 | 25°D20 | 25°35 | 25°28 | 5°53 | W10 |
| T 11 | 3 22 43 | 19°14'57 | 7 Ⅱ 14 | 11°25 | 23°23 | 27°48 | 19° 1 | 7°47 | 4°30 | 13°47 | 10°56 | 25°21 | 25°32 | 25°35 | 5°51 | T 11 |
| F 12 | 3 26 39 | 20°15'27 | 19°33 | 10°27 | 24°36 | 28°31 | 19° 7 | 7°43 | 4°29 | 13°47 | 10°55 | 25°21 | 25°29 | 25°41 | 5°49 | F 12 |
| S 13 | 3 30 36 | 21°15'58 | 1939 | 9°39 | 25°49 | 29°14 | 19°12 | 7°38 | 4°27 | 13°48 | 10°55 | 25°21 | 25°25 | 25°48 | 5°47 | S 13 |
| S 14 | 3 34 32 | 22°16'31 | 13°37 | 9° 2 | 27° 3 | 29°58 | 19°18 | 7°34 | 4°26 | 13°49 | 10°54 | 25°22 | 25°22 | 25°55 | 5°46 | S 14 |
| M15 | 3 38 29 | 23°17'06 | 25°30 | 8°36 | 28°16 | 0 ∡ 741 | 19°25 | 7°29 | 4°24 | 13°49 | 10°53 | 25°22 | 25°19 | 26° 2 | 5°44 | M15 |
| T 16 | 3 42 25 | 24°17'42 | 7 Ω 21 | 8°23 | 29°29 | 1°25 | 19°31 | 7°24 | 4°23 | 13°50 | 10°52 | 25°22 | 25°16 | 26° 8 | 5°42 | T 16 |
| W17 | 3 46 22 | 25°18'21 | 19°15 | 8°D20 | 0 궁 42 | 2° 8 | 19°37 | 7°19 | 4°22 | 13°51 | 10°52 | 25°22 | 25°13 | 26°15 | 5°41 | W17 |
| T 18 | 3 50 18 | 26°19'00 | 1 Mp 16 | 8°29 | 1°55 | 2°52 | 19°44 | 7°15 | 4°21 | 13°52 | 10°51 | 25°22 | 25°10 | 26°22 | 5°39 | T 18 |
| F 19 | 3 54 15 | 27°19'42 | 13°30 | 8°47 | 3° 8 | 3°35 | 19°51 | 7°10 | 4°19 | 13°52 | 10°50 | 25°22 | 25° 6 | 26°28 | 5°38 | F 19 |
| S 20 | 3 58 12 | 28°20'25 | 26° 0 | 9°15 | 4°21 | 4°19 | 19°58 | 7° 5 | 4°18 | 13°53 | 10°49 | 25°23 | 25° 3 | 26°35 | 5°36 | S 20 |
| S 21 | 4 2 8 | 29°21'09 | 8 ≏ 50 | 9°51 | 5°34 | 5° 3 | 20° 5 | 7° 0 | 4°17 | 13°54 | 10°48 | 25°23 | 25° 0 | 26°42 | 5°35 | S 21 |
| M22 | 4 6 5 | 0 ₹ '21'56 | 22° 4 | 10°34 | 6°47 | 5°47 | 20°12 | 6°55 | 4°16 | 13°55 | 10°47 | 25°24 | 24°57 | 26°49 | 5°33 | M22 |
| T 23 | 4 10 1 | 1°22'43 | 5 M .41 | 11°24 | 8° 0 | 6°31 | 20°20 | 6°50 | 4°15 | 13°56 | 10°46 | 25°24 | 24°54 | 26°55 | 5°32 | T 23 |
| W24 | 4 13 58 | 2°23'32 | 19°42 | 12°19 | 9°13 | 7°15 | 20°27 | 6°45 | 4°14 | 13°57 | 10°45 | 25°R24 | 24°51 | 27° 2 | 5°31 | W24 |
| T 25 | 4 17 54 | 3°24'23 | 4 ₹ 3 | 13°20 | 10°26 | 7°59 | 20°35 | 6°40 | 4°13 | 13°58 | 10°45 | 25°24 | 24°47 | 27° 9 | 5°30 | T 25 |
| F 26 | 4 21 51 | 4°25'15 | 18°39 | 14°25 | 11°39 | 8°43 | 20°43 | 6°35 | 4°12 | 13°59 | 10°44 | 25°24 | 24°44 | 27°15 | 5°29 | F 26 |
| S 27 | 4 25 47 | 5°26'08 | 3 중 23 | 15°34 | 12°52 | 9°27 | 20°51 | 6°31 | 4°12 | 14° 0 | 10°43 | 25°23 | 24°41 | 27°22 | 5°28 | S 27 |
| S 28 | 4 29 44 | 6°27'02 | 18° 9 | 16°46 | 14° 4 | 10°11 | 20°59 | 6°26 | 4°11 | 14° 1 | 10°42 | 25°22 | 24°38 | 27°29 | 5°27 | S 28 |
| M29 | 4 33 41 | 7°27'56 | 2≈49 | 18° 1 | 1 <u>5</u> °17 | 10°55 | 21° 8 | 6°21 | 4°10 | 14° 2 | 10°41 | 25°20 | 24°35 | 27°35 | 5°26 | M29 |
| T 30 | 4 37 37 | 8 ∡ 128'52 | 17≈18 | 19 M .18 | 16 궁 30 | 11 × 39 | 21≈16 | 6 Ⅱ 16 | 4 Υ 9 | 14≈ 4 | 109540 | 25 M 19 | 24M31 | 279542 | 5 Υ 25 | T 30 |

Delta T = 24.92 sec

Greg. Calendar

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|------|---------|-------------------|-----------------|----------------|----------------|----------------|-------|----------------|---------------|-------|--------|----------------|----------------|---------------|---------------|------|
| W 1 | 4 41 34 | 9 × 729'48 | 1) 31 | 20 M 37 | 17 る 42 | 12 × 24 | 21≈25 | 6°R11 | 4°R 9 | 14≈ 5 | 10°R39 | 25°R18 | 24M28 | 279549 | 5°R24 | W 1 |
| T 2 | 4 45 30 | 10°30'45 | 15°27 | 21°58 | 18°55 | 13° 8 | 21°34 | 6 I I 6 | 4 Υ 8 | 14° 6 | 10937 | 25°D18 | 24°25 | 27°56 | 5 ℃ 23 | T 2 |
| F 3 | 4 49 27 | 11°31'42 | 29° 6 | 23°21 | 20° 7 | 13°52 | 21°42 | 6° 1 | 4° 8 | 14° 7 | 10°36 | 25 M 19 | 24°22 | 28° 2 | 5°22 | F 3 |
| S 4 | 4 53 23 | 12°32'40 | 12 Y 27 | 24°45 | 21°20 | 14°37 | 21°51 | 5°56 | 4° 7 | 14° 9 | 10°35 | 25°20 | 24°19 | 28° 9 | 5°21 | S 4 |
| S 5 | 4 57 20 | 13°33'39 | 25°32 | 26°10 | 22°32 | 15°21 | 22° 1 | 5°51 | 4° 7 | 14°10 | 10°34 | 25°21 | 24°16 | 28°16 | 5°21 | S 5 |
| M 6 | 5 1 16 | 14°34'39 | 8 8 23 | 27°36 | 23°45 | 16° 6 | 22°10 | 5°46 | 4° 6 | 14°11 | 10°33 | 25°23 | 24°12 | 28°22 | 5°20 | M 6 |
| T 7 | 5 5 13 | 15°35'39 | 21° 1 | 29° 3 | 24°57 | 16°50 | 22°19 | 5°41 | 4° 6 | 14°13 | 10°32 | 25°R23 | 24° 9 | 28°29 | 5°20 | T 7 |
| W 8 | 5 9 10 | 16°36'40 | 3耳28 | 0 ₮ 30 | 26° 9 | 17°35 | 22°29 | 5°37 | 4° 6 | 14°14 | 10°31 | 25°23 | 24° 6 | 28°36 | 5°19 | W 8 |
| T 9 | 5 13 6 | 17°37'42 | 15°45 | 1°59 | 27°21 | 18°20 | 22°39 | 5°32 | 4° 6 | 14°15 | 10°30 | 25°22 | 24° 3 | 28°43 | 5°19 | T 9 |
| F 10 | 5 17 3 | 18°38'44 | 27°54 | 3°27 | 28°33 | 19° 4 | 22°49 | 5°27 | 4° 5 | 14°17 | 10°29 | 25°19 | 24° 0 | 28°49 | 5°18 | F 10 |
| S 11 | 5 20 59 | 19°39'47 | 9 95 55 | 4°57 | 29°45 | 19°49 | 22°59 | 5°22 | 4° 5 | 14°18 | 10°27 | 25°16 | 23°57 | 28°56 | 5°18 | S 11 |
| S 12 | 5 24 56 | 20°40'51 | 21°50 | 6°26 | 0≈57 | 20°34 | 23° 9 | 5°18 | 4° 5 | 14°20 | 10°26 | 25°11 | 23°53 | 29° 3 | 5°18 | S 12 |
| M13 | 5 28 52 | 21°41'56 | 3 Ω 42 | 7°57 | 2° 9 | 21°19 | 23°19 | 5°13 | 4°D 5 | 14°21 | 10°25 | 25° 6 | 23°50 | 29° 9 | 5°18 | M13 |
| T 14 | 5 32 49 | 22°43'01 | 15°33 | 9°27 | 3°21 | 22° 4 | 23°29 | 5° 8 | 4° 5 | 14°23 | 10°24 | 25° 2 | 23°47 | 29°16 | 5°18 | T 14 |
| W15 | 5 36 46 | 23°44'07 | 27°26 | 10°58 | 4°32 | 22°49 | 23°39 | 5° 4 | 4° 5 | 14°25 | 10°23 | 24°58 | 23°44 | 29°23 | 5°17 | W15 |
| T 16 | 5 40 42 | 24°45'14 | 9 m 25 | 12°29 | 5°44 | 23°34 | 23°50 | 4°59 | 4° 6 | 14°26 | 10°22 | 24°55 | 23°41 | 29°30 | 5°D17 | T 16 |
| F 17 | 5 44 39 | 25°46'21 | 21°35 | 14° 0 | 6°56 | 24°19 | 24° 1 | 4°55 | 4° 6 | 14°28 | 10°20 | 24°D54 | 23°37 | 29°36 | 5°17 | F 17 |
| S 18 | 5 48 35 | 26°47'30 | 4 ♀ 0 | 15°32 | 8° 7 | 25° 4 | 24°11 | 4°50 | 4° 6 | 14°29 | 10°19 | 24°54 | 23°34 | 29°43 | 5°18 | S 18 |
| S 19 | 5 52 32 | 27°48'38 | 16°44 | 17° 4 | 9°19 | 25°49 | 24°22 | 4°46 | 4° 6 | 14°31 | 10°18 | 24°55 | 23°31 | 29°50 | 5°18 | S 19 |
| M20 | 5 56 28 | 28°49'48 | 29°52 | 18°36 | 10°30 | 26°34 | 24°33 | 4°42 | 4° 7 | 14°33 | 10°17 | 24°57 | 23°28 | 29°56 | 5°18 | M20 |
| T 21 | 6 0 25 | 29°50'58 | 13 M 26 | 20° 8 | 11°41 | 27°20 | 24°44 | 4°38 | 4° 7 | 14°35 | 10°15 | 24°59 | 23°25 | 0Ω 3 | 5°18 | T 21 |
| W22 | 6 4 21 | 0 궁 52'09 | 27°29 | 21°41 | 12°52 | 28° 5 | 24°56 | 4°33 | 4° 7 | 14°36 | 10°14 | 24°R59 | 23°22 | 0°10 | 5°19 | W22 |
| T 23 | 6 8 18 | 1°53'20 | 11 .7 58 | 23°14 | 14° 3 | 28°50 | 25° 7 | 4°29 | 4° 8 | 14°38 | 10°13 | 24°58 | 23°18 | 0°17 | 5°19 | T 23 |
| F 24 | 6 12 15 | 2°54'32 | 26°49 | 24°47 | 15°14 | 29°36 | 25°18 | 4°25 | 4° 9 | 14°40 | 10°12 | 24°55 | 23°15 | 0°23 | 5°19 | F 24 |
| S 25 | 6 16 11 | 3°55'44 | 11 る 55 | 26°21 | 16°25 | 0 궁 21 | 25°30 | 4°21 | 4° 9 | 14°42 | 10°10 | 24°50 | 23°12 | 0°30 | 5°20 | S 25 |
| S 26 | 6 20 8 | 4°56'56 | 27° 6 | 27°55 | 17°36 | 1° 7 | 25°41 | 4°17 | 4°10 | 14°44 | 10° 9 | 24°44 | 23° 9 | 0°37 | 5°20 | S 26 |
| M27 | 6 24 4 | 5°58'08 | 12≈12 | 29°29 | 18°46 | 1°52 | 25°53 | 4°14 | 4°11 | 14°45 | 10° 8 | 24°37 | 23° 6 | 0°43 | 5°21 | M27 |
| T 28 | 6 28 1 | 6°59'19 | 27° 3 | 1る 3 | 19°57 | 2°38 | 26° 5 | 4°10 | 4°11 | 14°47 | 10° 7 | 24°31 | 23° 3 | 0°50 | 5°22 | T 28 |
| W29 | 6 31 57 | 8° 0'31 | 11 米 33 | 2°38 | 21° 7 | 3°23 | 26°17 | 4° 6 | 4°12 | 14°49 | 10° 5 | 24°27 | 22°59 | 0°57 | 5°22 | W29 |
| T 30 | 6 35 54 | 9° 1'42 | 25°38 | 4°13 | 22°17 | 4° 9 | 26°29 | 4° 3 | 4°13 | 14°51 | 10° 4 | 24°24 | 22°56 | 1° 4 | 5°23 | T 30 |
| F 31 | 6 39 50 | 10る 2'52 | 9 Υ 18 | 5 る 49 | 23≈28 | 4 궁 55 | 26≈41 | 3 Ⅱ 59 | 4 Υ 14 | 14≈53 | 1099 3 | 24°D23 | 22 M 53 | 1 Ω 10 | 5 Υ 24 | F 31 |

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| S 2 | 6 43 47 6 47 44 6 51 40 | 11 궁 4'02 | 22 Y 33 | | | | | ħ |) / (| ¥ | Р | | | Ç | ę, | Day |
|------|-------------------------------|------------------|----------------|---------------|----------------|----------------|---------------|-------|------------------|-------|--------|----------------|-----------------|----------------|---------------|------|
| | | | | 7 云 25 | 24≈38 | 5 云 40 | 26≈53 | 3°R56 | 4Υ 15 | 14≈55 | 10°R 2 | 24 M 24 | 22 M 50 | 1 .Ω 17 | 5 Υ 25 | S 1 |
| M 3 | 6 51 40 | 12° 5'12 | 5 8 26 | 9° 1 | 25°47 | 6°26 | 27° 5 | 3耳52 | 4°16 | 14°57 | 1095 0 | 24°25 | 22°47 | 1°24 | 5°26 | S 2 |
| | | 13° 6'22 | 18° 3 | 10°37 | 26°57 | 7°12 | 27°17 | 3°49 | 4°17 | 14°59 | 9°59 | 24°R26 | 22°43 | 1°30 | 5°27 | M 3 |
| | 6 55 37 | 14° 7'31 | 0 Ⅱ 25 | 12°14 | 28° 7 | 7°58 | 27°30 | 3°46 | 4°18 | 15° 1 | 9°58 | 24°26 | 22°40 | 1°37 | 5°28 | T 4 |
| | 6 59 33 | 15° 8'40 | 12°37 | 13°52 | 29°16 | 8°44 | 27°42 | 3°43 | 4°19 | 15° 3 | 9°57 | 24°24 | 22°37 | 1°44 | 5°29 | W 5 |
| _ | 7 3 30 | 16° 9'48 | 24°41 | 15°30 | 0 ∺ 25 | 9°30 | 27°55 | 3°40 | 4°20 | 15° 5 | 9°55 | 24°20 | 22°34 | 1°51 | 5°30 | T 6 |
| | 7 7 26 | 17°10'56 | 6940 | 17° 8 | 1°34 | 10°16 | 28° 7 | 3°37 | 4°22 | 15° 7 | 9°54 | 24°13 | 22°31 | 1°57 | 5°31 | F 7 |
| S 8 | 7 11 23 | 18°12'03 | 18°35 | 18°47 | 2°43 | 11° 2 | 28°20 | 3°34 | 4°23 | 15° 9 | 9°53 | 24° 4 | 22°28 | 2° 4 | 5°33 | S 8 |
| | 7 15 19 | 19°13'10 | $0\Omega 28$ | 20°27 | 3°52 | 11°48 | 28°33 | 3°31 | 4°24 | 15°11 | 9°52 | 23°53 | 22°24 | 2°11 | 5°34 | S 9 |
| | 7 19 16 | 20°14'16 | 12°20 | 22° 6 | 5° 1 | 12°34 | 28°46 | 3°29 | 4°26 | 15°13 | 9°50 | 23°41 | 22°21 | 2°17 | 5°35 | M10 |
| | 7 23 13 | 21°15'22 | 24°12 | 23°47 | 6° 9 | 13°20 | 28°58 | 3°26 | 4°27 | 15°16 | 9°49 | 23°30 | 22°18 | 2°24 | 5°37 | T 11 |
| | 7 27 9 | 22°16'28 | 6Mp 8 | 25°27 | 7°17 | 14° 6 | 29°11 | 3°24 | 4°29 | 15°18 | 9°48 | 23°20 | 22°15 | 2°31 | 5°38 | W12 |
| - | 7 31 6 | 23°17'33 | 18° 9 | 27° 9 | 8°25 | 14°52 | 29°24 | 3°22 | 4°30 | 15°20 | 9°47 | 23°12 | 22°12 | 2°38 | 5°40 | T 13 |
| | 7 35 2 | 24°18'38 | 0 ≏ 18 | 28°51 | 9°33 | 15°38 | 29°38 | 3°19 | 4°32 | 15°22 | 9°46 | 23° 6 | 22° 9 | 2°44 | 5°41 | F 14 |
| S 15 | 7 38 59 | 25°19'43 | 12°39 | 0≈33 | 10°41 | 16°25 | 29°51 | 3°17 | 4°34 | 15°24 | 9°44 | 23° 3 | 22° 5 | 2°51 | 5°43 | S 15 |
| | 7 42 55 | 26°20'47 | 25°17 | 2°15 | 11°48 | 17°11 | 0 ∀ 4 | 3°15 | 4°35 | 15°26 | 9°43 | 23°D 2 | 22° 2 | 2°58 | 5°45 | S 16 |
| | 7 46 52 | 27°21'51 | 8 M .17 | 3°58 | 12°55 | 17°57 | 0°17 | 3°13 | 4°37 | 15°28 | 9°42 | 23° 2 | 21°59 | 3° 4 | 5°47 | M17 |
| - | 7 50 48 | 28°22'54 | 21°41 | 5°42 | 14° 2 | 18°43 | 0°31 | 3°12 | 4°39 | 15°31 | 9°41 | 23°R 3 | 21°56 | 3°11 | 5°48 | T 18 |
| | 7 54 45 | 29°23'57 | 5 ₹ 33 | 7°26 | 15° 9 | 19°30 | 0°44 | 3°10 | 4°41 | 15°33 | 9°40 | 23° 2 | 21°53 | 3°18 | 5°50 | W19 |
| | 7 58 42 | 0≈25'00 | 1 <u>9</u> °55 | 9°10 | 16°16 | 20°16 | 0°57 | 3° 8 | 4°42 | 15°35 | 9°38 | 23° 0 | 21°49 | 3°25 | 5°52 | T 20 |
| | 8 2 38 | 1°26'02 | 4 ⋜ 43 | 10°54 | 17°22 | 21° 3 | 1°11 | 3° 7 | 4°44 | 15°37 | 9°37 | 22°54 | 21°46 | 3°31 | 5°54 | F 21 |
| S 22 | 8 6 35 | 2°27'03 | 19°52 | 12°38 | 18°28 | 21°49 | 1°24 | 3° 6 | 4°46 | 15°40 | 9°36 | 22°46 | 21°43 | 3°38 | 5°56 | S 22 |
| S 23 | 8 10 31 | 3°28'03 | 5≈12 | 14°22 | 19°34 | 22°36 | 1°38 | 3° 4 | 4°48 | 15°42 | 9°35 | 22°36 | 21°40 | 3°45 | 5°58 | S 23 |
| M24 | 8 14 28 | 4°29'03 | 20°32 | 16° 6 | 20°39 | 23°22 | 1°52 | 3° 3 | 4°50 | 15°44 | 9°34 | 22°25 | 21°37 | 3°51 | 6° 0 | M24 |
| T 25 | 8 18 24 | 5°30'01 | 5) 41 | 17°49 | 21°45 | 24° 9 | 2° 5 | 3° 2 | 4°52 | 15°46 | 9°33 | 22°14 | 21°34 | 3°58 | 6° 2 | T 25 |
| | 8 22 21 | 6°30'58 | 20°28 | 19°32 | 22°50 | 24°55 | 2°19 | 3° 1 | 4°55 | 15°49 | 9°32 | 22° 6 | 21°30 | 4° 5 | 6° 5 | W26 |
| | 8 26 17 | 7°31'53 | 4 Υ47 | 21°14 | 23°54 | 25°42 | 2°33 | 3° 1 | 4°57 | 15°51 | 9°31 | 21°59 | 21°27 | 4°12 | 6° 7 | T 27 |
| | 8 30 14 | 8°32'48 | 18°37 | 22°54 | 24°59 | 26°29 | 2°47 | 3° 0 | 4°59 | 15°53 | 9°29 | 21°56 | 21°24 | 4°18 | 6° 9 | F 28 |
| S 29 | 8 34 11 | 9°33'41 | 1 8 57 | 24°33 | 26° 3 | 27°15 | 3° 1 | 2°59 | 5° 1 | 15°55 | 9°28 | 21°54 | 21°21 | 4°25 | 6°11 | S 29 |
| S 30 | 8 38 7 | 10°34'32 | 14°52 | 26°10 | 27° 7 | 28° 2 | 3°15 | 2°59 | 5° 3 | 15°58 | 9°27 | 21°54 | 21°18 | 4°32 | 6°14 | S 30 |
| M31 | 8 42 4 | 11≈35'22 | 27 8 24 | 27≈45 | 28) 10 | 28 る 49 | 3 ∺ 29 | 2П59 | 5 Υ 6 | 16≈ 0 | 99526 | 21 M 54 | 21 M .14 | 4 Ω 38 | 6 Υ 16 | M31 |

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|------|----------|--------------------|------------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|-----------------|---------------|---------------|------|
| T 1 | 8 46 0 | 12≈36'11 | 9 Ⅱ 41 | 29≈16 | 29 米 13 | 29 る 35 | 3) (43 | 2°R58 | 5 ℃ 8 | 16≈ 2 | 9°R25 | 21°R53 | 21 M 11 | 4 Ω 45 | 6 Υ 19 | T 1 |
| W 2 | 8 49 57 | 13°36'58 | 21°45 | 0) €45 | 0 Υ 16 | 0≈22 | 3°57 | 2°D58 | 5°11 | 16° 4 | 9 9 24 | 21 M 50 | 21° 8 | 4°52 | 6°21 | W 2 |
| T 3 | 8 53 53 | 14°37'44 | 39542 | 2° 8 | 1°18 | 1° 9 | 4°11 | 2 Ⅱ 58 | 5°13 | 16° 7 | 9°23 | 21°43 | 21° 5 | 4°59 | 6°24 | T 3 |
| F 4 | 8 57 50 | 15°38'28 | 15°34 | 3°28 | 2°20 | 1°56 | 4°25 | 2°58 | 5°15 | 16° 9 | 9°22 | 21°34 | 21° 2 | 5° 5 | 6°26 | F 4 |
| S 5 | 9 1 46 | 16°39'11 | 27°26 | 4°41 | 3°22 | 2°43 | 4°39 | 2°59 | 5°18 | 16°11 | 9°21 | 21°22 | 20°59 | 5°12 | 6°29 | S 5 |
| S 6 | 9 5 43 | 17°39'52 | 9 Ω 18 | 5°49 | 4°23 | 3°29 | 4°53 | 2°59 | 5°20 | 16°14 | 9°20 | 21° 8 | 20°55 | 5°19 | 6°31 | S 6 |
| M 7 | 9 9 40 | 18°40'32 | 21°12 | 6°49 | 5°24 | 4°16 | 5° 7 | 3° 0 | 5°23 | 16°16 | 9°19 | 20°53 | 20°52 | 5°25 | 6°34 | M 7 |
| T 8 | 9 13 36 | 19°41'10 | 3 m) 9 | 7°41 | 6°24 | 5° 3 | 5°22 | 3° 0 | 5°26 | 16°18 | 9°18 | 20°39 | 20°49 | 5°32 | 6°37 | T 8 |
| W 9 | 9 17 33 | 20°41'47 | 15°11 | 8°26 | 7°24 | 5°50 | 5°36 | 3° 1 | 5°28 | 16°20 | 9°17 | 20°25 | 20°46 | 5°39 | 6°39 | W 9 |
| T 10 | 9 21 29 | 21°42'23 | 27°19 | 9° 1 | 8°24 | 6°37 | 5°50 | 3° 2 | 5°31 | 16°23 | 9°17 | 20°14 | 20°43 | 5°46 | 6°42 | T 10 |
| F 11 | 9 25 26 | 22°42'57 | 9 ≏ 35 | 9°26 | 9°23 | 7°24 | 6° 4 | 3° 3 | 5°34 | 16°25 | 9°16 | 20° 6 | 20°40 | 5°52 | 6°45 | F 11 |
| S 12 | 9 29 22 | 23°43'30 | 22° 2 | 9°42 | 10°21 | 8°11 | 6°19 | 3° 4 | 5°36 | 16°27 | 9°15 | 20° 1 | 20°36 | 5°59 | 6°48 | S 12 |
| S 13 | 9 33 19 | 24°44'02 | 4 M .41 | 9°R47 | 11°19 | 8°58 | 6°33 | 3° 5 | 5°39 | 16°29 | 9°14 | 19°59 | 20°33 | 6° 6 | 6°51 | S 13 |
| M14 | 9 37 15 | 25°44'32 | 17°38 | 9°42 | 12°17 | 9°45 | 6°48 | 3° 6 | 5°42 | 16°32 | 9°13 | 19°58 | 20°30 | 6°12 | 6°54 | M14 |
| T 15 | 9 41 12 | 26°45'02 | 0 才 55 | 9°27 | 13°13 | 10°32 | 7° 2 | 3° 7 | 5°45 | 16°34 | 9°12 | 19°58 | 20°27 | 6°19 | 6°57 | T 15 |
| W16 | 9 45 9 | 27°45'30 | 14°37 | 9° 2 | 14°10 | 11°19 | 7°16 | 3° 9 | 5°48 | 16°36 | 9°12 | 19°57 | 20°24 | 6°26 | 7° 0 | W16 |
| T 17 | 9 49 5 | 28°45'56 | 28°44 | 8°28 | 15° 6 | 12° 6 | 7°31 | 3°10 | 5°50 | 16°38 | 9°11 | 19°55 | 20°20 | 6°33 | 7° 3 | T 17 |
| F 18 | 9 53 2 | 29°46'21 | 13 る 16 | 7°46 | 16° 1 | 12°53 | 7°45 | 3°12 | 5°53 | 16°41 | 9°10 | 19°49 | 20°17 | 6°39 | 7° 6 | F 18 |
| S 19 | 9 56 58 | 0) (46′45 | 28°10 | 6°56 | 16°55 | 13°40 | 8° 0 | 3°14 | 5°56 | 16°43 | 9° 9 | 19°41 | 20°14 | 6°46 | 7° 9 | S 19 |
| S 20 | 10 055 | 1°47'07 | 13 ≈ 19 | 6° 1 | 17°49 | 14°27 | 8°14 | 3°16 | 5°59 | 16°45 | 9° 9 | 19°31 | 20°11 | 6°53 | 7°12 | S 20 |
| M21 | 10 451 | 2°47'28 | 28°34 | 5° 1 | 18°43 | 15°14 | 8°29 | 3°18 | 6° 2 | 16°47 | 9°8 | 19°20 | 20° 8 | 7° 0 | 7°15 | M21 |
| T 22 | 10 8 48 | 3°47'47 | 13) (42 | 3°58 | 19°35 | 16° 1 | 8°43 | 3°20 | 6° 5 | 16°50 | 9° 7 | 19° 9 | 20° 5 | 7° 6 | 7°18 | T 22 |
| W23 | 10 12 44 | 4°48'04 | 28°33 | 2°54 | 20°27 | 16°48 | 8°58 | 3°22 | 6° 8 | 16°52 | 9° 7 | 18°59 | 20° 1 | 7°13 | 7°22 | W23 |
| T 24 | 10 16 41 | 5°48'19 | 13 ° 1 | 1°51 | 21°18 | 17°35 | 9°12 | 3°25 | 6°11 | 16°54 | 9° 6 | 18°52 | 19°58 | 7°20 | 7°25 | T 24 |
| F 25 | 10 20 38 | 6°48'32 | 26°59 | 0°49 | 22° 8 | 18°22 | 9°27 | 3°27 | 6°14 | 16°56 | 9° 5 | 18°48 | 19°55 | 7°26 | 7°28 | F 25 |
| S 26 | 10 24 34 | 7°48'43 | 10828 | 29≈50 | 22°58 | 19° 9 | 9°41 | 3°30 | 6°18 | 16°58 | 9° 5 | 18°46 | 19°52 | 7°33 | 7°31 | S 26 |
| S 27 | 10 28 31 | 8°48'52 | 23°29 | 28°55 | 23°47 | 19°56 | 9°56 | 3°32 | 6°21 | 17° 0 | 9° 4 | 18°D46 | 19°49 | 7°40 | 7°35 | S 27 |
| M28 | 10 32 27 | 9) (48′59 | 6 I 7 | 28 ≈ 5 | 24 Y 35 | 20≈43 | 10 ∺ 10 | 3耳35 | 6 Ƴ 24 | 17 ≈ 3 | 999 4 | 18°R46 | 19 M .46 | 7 Ω 47 | 7 Ƴ 38 | M28 |

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| T 1 10 36 24 W 2 10 40 20 T 3 10 44 17 F 4 10 48 13 S 5 10 52 10 S 6 10 56 7 | 10\(\pm\)49'03 11°49'06 12°49'06 13°49'05 14°49'01 15°48'55 | 18∏25 0©29 12°25 24°16 6Ω 7 | 27°R21 26≈44 26°13 25°48 25°30 | 25 Y 21 26° 7 26°52 27°36 | 21≈30 22°18 23° 5 | 10 ¥ 25 10°39 | 3 П 38 3°41 | 6 Υ 27 | 17≈ 5 | 9°R 3 | 18°R46 | 19 M .42 | 7 Ω 53 | 7 Υ 41 | T 1 |
|---|--|---|--|---|-------------------------|-------------------------|-----------------------|---------------|---------------|-------|-----------------|-----------------|----------------|---------------|------|
| T 3 10 44 17 F 4 10 48 13 S 5 10 52 10 | 12°49'06 13°49'05 14°49'01 15°48'55 | 12°25 24°16 6Ω 7 | 26°13 25°48 | 26°52 | 23° 5 | 10°39 | 2041 | | | | | | | | |
| F 4 10 48 13 S 5 10 52 10 | 13°49'05 14°49'01 15°48'55 | 24°16 6 Ω 7 | 25°48 | | | | - | 6°30 | 17° 7 | 999 3 | 18 M .44 | 19°39 | 8° 0 | 7°45 | W 2 |
| S 5 10 52 10 | 14°49'01 15°48'55 | 6 Ω 7 | | 27°36 | | 10°54 | 3°44 | 6°33 | 17° 9 | 9° 2 | 18°40 | 19°36 | 8° 7 | 7°48 | T 3 |
| | 15°48'55 | | 25°30 | | 23°52 | 11° 8 | 3°47 | 6°37 | 17°11 | 9° 2 | 18°33 | 19°33 | 8°13 | 7°51 | F 4 |
| S 6 10 56 7 | | | 23 30 | 28°19 | 24°39 | 11°23 | 3°51 | 6°40 | 17°13 | 9° 1 | 18°24 | 19°30 | 8°20 | 7°55 | S 5 |
| | | 18° 0 | 25°19 | 29° 1 | 25°26 | 11°37 | 3°54 | 6°43 | 17°15 | 9° 1 | 18°13 | 19°26 | 8°27 | 7°58 | S 6 |
| M 7 11 0 3 | 16°48'47 | 29°58 | 25°D14 | 29°42 | 26°13 | 11°52 | 3°57 | 6°46 | 17°17 | 9° 1 | 18° 1 | 19°23 | 8°34 | 8° 2 | M 7 |
| T 8 11 4 0 | 17°48'36 | 12 Mp 2 | 25°16 | 0821 | 27° 0 | 12° 6 | 4° 1 | 6°50 | 17°19 | 9° 0 | 17°49 | 19°20 | 8°40 | 8° 5 | T 8 |
| W 9 11 756 | 18°48'24 | 24°15 | 25°24 | 1° 0 | 27°47 | 12°21 | 4° 5 | 6°53 | 17°21 | 9° 0 | 17°39 | 19°17 | 8°47 | 8° 9 | W 9 |
| T 10 11 11 53 | 19°48'10 | 6 ≏ 35 | 25°37 | 1°37 | 28°34 | 12°35 | 4° 8 | 6°56 | 17°23 | 9° 0 | 17°30 | 19°14 | 8°54 | 8°12 | T 10 |
| F 11 11 15 49 | 20°47'54 | 19° 5 | 25°55 | 2°12 | 29°21 | 12°49 | 4°12 | 6°59 | 17°25 | 8°59 | 17°24 | 19°11 | 9° 0 | 8°16 | F 11 |
| S 12 11 19 46 | 21°47'36 | 1 M .45 | 26°19 | 2°47 | 0 米 9 | 13° 4 | 4°16 | 7° 3 | 17°27 | 8°59 | 17°20 | 19° 7 | 9° 7 | 8°19 | S 12 |
| S 13 11 23 42 | 22°47'16 | 14°37 | 26°48 | 3°19 | 0°56 | 13°18 | 4°20 | 7° 6 | 17°29 | 8°59 | 17°D19 | 19° 4 | 9°14 | 8°23 | S 13 |
| M14 11 27 39 | 23°46'55 | 27°43 | 27°21 | 3°51 | 1°43 | 13°33 | 4°24 | 7°10 | 17°31 | 8°59 | 17°19 | 19° 1 | 9°21 | 8°26 | M14 |
| T 15 11 31 35 | 24°46'32 | 11 ~ 4 | 27°58 | 4°21 | 2°30 | 13°47 | 4°29 | 7°13 | 17°33 | 8°58 | 17°20 | 18°58 | 9°27 | 8°30 | T 15 |
| W16 11 35 32 | 25°46'07 | 24°43 | 28°39 | 4°49 | 3°17 | 14° 1 | 4°33 | 7°16 | 17°35 | 8°58 | 17°R21 | 18°55 | 9°34 | 8°34 | W16 |
| T 17 11 39 29 | 26°45'40 | 8 ප් 41 | 29°24 | 5°16 | 4° 4 | 14°16 | 4°37 | 7°20 | 17°37 | 8°58 | 17°20 | 18°51 | 9°41 | 8°37 | T 17 |
| F 18 11 43 25 | 27°45'12 | 22°58 | 0) 13 | 5°41 | 4°51 | 14°30 | 4°42 | 7°23 | 17°39 | 8°58 | 17°18 | 18°48 | 9°48 | 8°41 | F 18 |
| S 19 11 47 22 | 28°44'42 | 7≈32 | 1° 4 | 6° 4 | 5°38 | 14°44 | 4°46 | 7°26 | 17°41 | 8°58 | 17°13 | 18°45 | 9°54 | 8°45 | S 19 |
| S 20 11 51 18 | 29°44'10 | 22°18 | 1°59 | 6°25 | 6°25 | 14°59 | 4°51 | 7°30 | 17°42 | 8°58 | 17° 7 | 18°42 | 10° 1 | 8°48 | S 20 |
| M21 11 55 15 | 0 Υ 43'36 | 7 ∺ 9 | 2°57 | 6°45 | 7°12 | 15°13 | 4°56 | 7°33 | 17°44 | 8°58 | 16°59 | 18°39 | 10° 8 | 8°52 | M21 |
| T 22 11 59 11 | 1°43'00 | 21°58 | 3°58 | 7° 2 | 7°59 | 15°27 | 5° 1 | 7°37 | 17°46 | 8°58 | 16°52 | 18°36 | 10°14 | 8°55 | T 22 |
| W23 12 3 8 | 2°42'22 | 6 Ƴ 36 | 5° 1 | 7°18 | 8°46 | 15°41 | 5° 6 | 7°40 | 17°48 | 8°D58 | 16°46 | 18°32 | 10°21 | 8°59 | W23 |
| T 24 12 7 4 | 3°41'42 | 20°56 | 6° 6 | 7°31 | 9°33 | 15°55 | 5°10 | 7°44 | 17°49 | 8°58 | 16°41 | 18°29 | 10°28 | 9° 3 | T 24 |
| F 25 12 11 1 | 4°41'00 | 4 8 53 | 7°15 | 7°42 | 10°20 | 16°10 | 5°16 | 7°47 | 17°51 | 8°58 | 16°39 | 18°26 | 10°35 | 9° 6 | F 25 |
| S 26 12 14 58 | 5°40'15 | 18°24 | 8°25 | 7°51 | 11° 7 | 16°24 | 5°21 | 7°50 | 17°53 | 8°58 | 16°D38 | 18°23 | 10°41 | 9°10 | S 26 |
| S 27 12 18 54 | 6°39'29 | 1∏29 | 9°37 | 7°58 | 11°54 | 16°38 | 5°26 | 7°54 | 17°54 | 8°58 | 16°39 | 18°20 | 10°48 | 9°14 | S 27 |
| M28 12 22 51 | 7°38'40 | 14°11 | 10°52 | 8° 3 | 12°41 | 16°52 | 5°31 | 7°57 | 17°56 | 8°58 | 16°41 | 18°17 | 10°55 | 9°17 | M28 |
| T 29 12 26 47 | 8°37'49 | 26°34 | 12° 8 | 8°R 5 | 13°28 | 17° 6 | 5°37 | 8° 1 | 17°58 | 8°58 | 16°42 | 18°13 | 11° 1 | 9°21 | T 29 |
| W30 12 30 44 | 9°36'56 | 89542 | 13°27 | 8° 5 | 14°15 | 17°20 | 5°42 | 8° 4 | 17°59 | 8°58 | 16°R43 | 18°10 | 11° 8 | 9°25 | W30 |
| T 31 12 34 40 | 10 Y 36'00 | 209540 | 14) (47 | 8 8 2 | 15 ¥ 2 | 17) 34 | 5∏48 | 8 Υ 8 | 18 ≈ 1 | 8959 | 16M42 | 18 M 7 | 11 Ω 15 | 9 Υ 28 | T 31 |

Delta T = 24.72 sec Greg. Calendar

APRIL 1678 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)f(| ¥ | Р | v | v | ţ | ę, | Day |
|------|----------|-------------------|---------------------------|---------------|----------------|------------------|------------------|---------------|---------------|----------------|-------|--------|---------------|----------------|----------------|------|
| F 1 | 12 38 37 | 11 Y 35'02 | 2 Ω 33 | 16 米 9 | 7°R57 | 15) (48 | 17) (48 | 5 Ⅱ 53 | 8 Υ 11 | 18 ≈ 2 | 8959 | 16°R40 | 18 M 4 | 11 Ω 22 | 9 Υ 32 | F 1 |
| S 2 | 12 42 33 | 12°34'01 | 14°25 | 17°33 | 7 8 49 | 16°35 | 18° 1 | 5°59 | 8°14 | 18° 4 | 8°59 | 16MJ36 | 18° 1 | 11°28 | 9°36 | S 2 |
| S 3 | 12 46 30 | 13°32'59 | 26°20 | 18°59 | 7°39 | 17°22 | 18°15 | 6° 5 | 8°18 | 18° 5 | 8°59 | 16°32 | 17°57 | 11°35 | 9°39 | S 3 |
| M 4 | 12 50 27 | 14°31'54 | 8 m 23 | 20°26 | 7°26 | 18° 9 | 18°29 | 6°10 | 8°21 | 18° 7 | 9° 0 | 16°26 | 17°54 | 11°42 | 9°43 | M 4 |
| T 5 | 12 54 23 | 15°30'46 | 20°34 | 21°55 | 7°11 | 18°56 | 18°43 | 6°16 | 8°25 | 18° 8 | 9° 0 | 16°20 | 17°51 | 11°49 | 9°47 | T 5 |
| W 6 | 12 58 20 | 16°29'37 | 2 ≙ 57 | 23°26 | 6°54 | 19°42 | 18°56 | 6°22 | 8°28 | 18°10 | 9° 0 | 16°15 | 17°48 | 11°55 | 9°50 | W 6 |
| T 7 | 13 2 16 | 17°28'26 | 15°32 | 24°58 | 6°34 | 20°29 | 19°10 | 6°28 | 8°31 | 18°11 | 9° 1 | 16°11 | 17°45 | 12° 2 | 9°54 | T 7 |
| F 8 | 13 6 13 | 18°27'12 | 28°20 | 26°32 | 6°12 | 21°16 | 19°24 | 6°34 | 8°35 | 18°13 | 9° 1 | 16° 9 | 17°42 | 12° 9 | 9°58 | F 8 |
| S 9 | 13 10 9 | 19°25'57 | 11 M 21 | 28° 8 | 5°47 | 22° 2 | 19°37 | 6°40 | 8°38 | 18°14 | 9° 1 | 16°D 8 | 17°38 | 12°15 | 10° 1 | S 9 |
| S 10 | 13 14 6 | 20°24'40 | 24°34 | 29°45 | 5°21 | 22°49 | 19°51 | 6°46 | 8°42 | 18°15 | 9° 2 | 16° 8 | 17°35 | 12°22 | 10° 5 | S 10 |
| M11 | 13 18 2 | 21°23'21 | 8 × ⁷ 0 | 1 Υ 24 | 4°52 | 23°36 | 20° 4 | 6°53 | 8°45 | 18°16 | 9° 2 | 16° 9 | 17°32 | 12°29 | 10° 9 | M11 |
| T 12 | 13 21 59 | 22°22'00 | 21°37 | 3° 4 | 4°22 | 24°22 | 20°18 | 6°59 | 8°48 | 18°18 | 9° 3 | 16°10 | 17°29 | 12°36 | 10°12 | T 12 |
| W13 | 13 25 56 | 23°20'38 | 5 る 27 | 4°46 | 3°50 | 25° 9 | 20°31 | 7° 5 | 8°52 | 18°19 | 9° 3 | 16°12 | 17°26 | 12°42 | 10°16 | W13 |
| T 14 | 13 29 52 | 24°19'14 | 19°27 | 6°30 | 3°16 | 25°55 | 20°44 | 7°12 | 8°55 | 18°20 | 9° 4 | 16°R12 | 17°23 | 12°49 | 10°19 | T 14 |
| F 15 | 13 33 49 | 25°17'48 | 3≈38 | 8°15 | 2°41 | 26°42 | 20°57 | 7°18 | 8°58 | 18°21 | 9° 4 | 16°12 | 17°19 | 12°56 | 10°23 | F 15 |
| S 16 | 13 37 45 | 26°16'21 | 17°56 | 10° 2 | 2° 6 | 27°28 | 21°11 | 7°25 | 9° 2 | 18°22 | 9° 5 | 16°11 | 17°16 | 13° 2 | 10°27 | S 16 |
| S 17 | 13 41 42 | 27°14'51 | 2 ∺ 20 | 11°51 | 1°29 | 28°15 | 21°24 | 7°31 | 9° 5 | 18°24 | 9° 5 | 16° 9 | 17°13 | 13° 9 | 10°30 | S 17 |
| M18 | 13 45 38 | 28°13'21 | 16°45 | 13°41 | 0°52 | 29° 1 | 21°37 | 7°38 | 9°8 | 18°25 | 9° 6 | 16° 7 | 17°10 | 13°16 | 10°34 | M18 |
| T 19 | 13 49 35 | 29°11'48 | 1 Υ 5 | 15°33 | 0°14 | 29°47 | 21°50 | 7°45 | 9°12 | 18°26 | 9° 7 | 16° 5 | 17° 7 | 13°23 | 10°37 | T 19 |
| W20 | 13 53 31 | 0810'14 | 15°17 | 17°26 | 29 Y 36 | 0 Υ 34 | 22° 3 | 7°51 | 9°15 | 18°27 | 9° 7 | 16° 3 | 17° 3 | 13°29 | 10°41 | W20 |
| T 21 | 13 57 28 | 1° 8'38 | 29°16 | 19°22 | 28°58 | 1°20 | 22°15 | 7°58 | 9°18 | 18°28 | 9° 8 | 16° 2 | 17° 0 | 13°36 | 10°44 | T 21 |
| F 22 | 14 1 24 | 2° 7'01 | 12857 | 21°18 | 28°21 | 2° 6 | 22°28 | 8° 5 | 9°21 | 18°29 | 9° 9 | 16°D 1 | 16°57 | 13°43 | 10°48 | F 22 |
| S 23 | 14 5 21 | 3° 5'21 | 26°18 | 23°17 | 27°44 | 2°53 | 22°41 | 8°12 | 9°25 | 18°30 | 9° 9 | 16° 1 | 16°54 | 13°50 | 10°51 | S 23 |
| S 24 | 14 9 18 | 4° 3'40 | 9∏20 | 25°17 | 27° 8 | 3°39 | 22°54 | 8°19 | 9°28 | 18°30 | 9°10 | 16° 2 | 16°51 | 13°56 | 10°55 | S 24 |
| M25 | 14 13 14 | 5° 1'56 | 22° 1 | 27°18 | 26°34 | 4°25 | 23° 6 | 8°26 | 9°31 | 18°31 | 9°11 | 16° 3 | 16°48 | 14° 3 | 10°58 | M25 |
| T 26 | 14 17 11 | 6° 0'11 | 4926 | 29°22 | 26° 0 | 5°11 | 23°19 | 8°33 | 9°34 | 18°32 | 9°12 | 16° 4 | 16°44 | 14°10 | 11° 2 | T 26 |
| W27 | 14 21 7 | 6°58'23 | 16°36 | 1826 | 25°28 | 5°57 | 23°31 | 8°40 | 9°37 | 18°33 | 9°13 | 16° 5 | 16°41 | 14°16 | 11° 5 | W27 |
| T 28 | 14 25 4 | 7°56'34 | 28°36 | 3°32 | 24°57 | 6°43 | 23°43 | 8°47 | 9°40 | 18°34 | 9°13 | 16° 5 | 16°38 | 14°23 | 11° 8 | T 28 |
| F 29 | 14 29 0 | 8°54'43 | 10 Ω 31 | 5°39 | 24°29 | 7°29 | 23°56 | 8°54 | 9°44 | 18°34 | 9°14 | 16°R 5 | 16°35 | 14°30 | 11°12 | F 29 |
| S 30 | 14 32 57 | 9 8 52'49 | $22\Omega 24$ | 7 8 47 | 24 Y 2 | 8 Υ 15 | 24 米 8 | 9 I 1 | 9 Ƴ 47 | 18 ≈ 35 | 99915 | 16M 5 | 16M32 | 14 Ω 37 | 11 Y 15 | S 30 |

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|------|----------|------------------|----------------|---------------|----------------|---------------|-----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------|
| S 1 | 14 36 53 | 10850'54 | 4 Mp 2 1 | 9 8 56 | 23°R37 | 9 Υ 1 | 24) (20 | 9 I I 8 | 9 Ƴ 50 | 18 ≈ 36 | 99316 | 16°R 5 | 16 M 28 | 14 Ω 43 | 11 Y 18 | S 1 |
| M 2 | 14 40 50 | 11°48'56 | 16°25 | 12° 6 | 23 Y 15 | 9°47 | 24°32 | 9°16 | 9°53 | 18°36 | 9°17 | 16 M 4 | 16°25 | 14°50 | 11°22 | M 2 |
| T 3 | 14 44 47 | 12°46'57 | 28°41 | 14°16 | 22°54 | 10°33 | 24°44 | 9°23 | 9°56 | 18°37 | 9°18 | 16° 4 | 16°22 | 14°57 | 11°25 | T 3 |
| W 4 | 14 48 43 | 13°44'56 | 11 ≏ 12 | 16°26 | 22°36 | 11°19 | 24°56 | 9°30 | 9°59 | 18°38 | 9°19 | 16° 4 | 16°19 | 15° 3 | 11°28 | W 4 |
| T 5 | 14 52 40 | 14°42'53 | 23°59 | 18°37 | 22°21 | 12° 5 | 25° 8 | 9°38 | 10° 2 | 18°38 | 9°20 | 16° 3 | 16°16 | 15°10 | 11°31 | T 5 |
| F 6 | 14 56 36 | 15°40'49 | 7 m , 4 | 20°47 | 22° 8 | 12°50 | 25°19 | 9°45 | 10° 5 | 18°39 | 9°21 | 16° 3 | 16°13 | 15°17 | 11°34 | F 6 |
| S 7 | 15 0 33 | 16°38'43 | 20°26 | 22°56 | 21°57 | 13°36 | 25°31 | 9°52 | 10° 8 | 18°39 | 9°22 | 16° 3 | 16° 9 | 15°24 | 11°38 | S 7 |
| S 8 | 15 4 29 | 17°36'35 | 4 √ 4 | 25° 5 | 21°49 | 14°22 | 25°43 | 10° 0 | 10°10 | 18°40 | 9°23 | 16° 3 | 16° 6 | 15°30 | 11°41 | S 8 |
| M 9 | 15 8 26 | 18°34'26 | 17°56 | 27°12 | 21°43 | 15° 7 | 25°54 | 10° 7 | 10°13 | 18°40 | 9°24 | 16° 3 | 16° 3 | 15°37 | 11°44 | M 9 |
| T 10 | 15 12 22 | 19°32'16 | 2 る 0 | 29°18 | 21°39 | 15°53 | 26° 5 | 10°15 | 10°16 | 18°40 | 9°25 | 16° 3 | 16° 0 | 15°44 | 11°47 | T 10 |
| W11 | 15 16 19 | 20°30'05 | 16°11 | 1 Ⅱ 23 | 21°D38 | 16°38 | 26°17 | 10°22 | 10°19 | 18°41 | 9°26 | 16° 2 | 15°57 | 15°51 | 11°50 | W11 |
| T 12 | 15 20 16 | 21°27'52 | 0≈26 | 3°25 | 21°40 | 17°24 | 26°28 | 10°30 | 10°22 | 18°41 | 9°27 | 16° 2 | 15°54 | 15°57 | 11°53 | T 12 |
| F 13 | 15 24 12 | 22°25'38 | 14°42 | 5°25 | 21°43 | 18° 9 | 26°39 | 10°37 | 10°25 | 18°41 | 9°28 | 16° 2 | 15°50 | 16° 4 | 11°56 | F 13 |
| S 14 | 15 28 9 | 23°23'23 | 28°56 | 7°23 | 21°49 | 18°55 | 26°50 | 10°45 | 10°27 | 18°42 | 9°29 | 16°D 2 | 15°47 | 16°11 | 11°59 | S 14 |
| S 15 | 15 32 5 | 24°21'07 | 13 ∺ 6 | 9°19 | 21°57 | 19°40 | 27° 1 | 10°53 | 10°30 | 18°42 | 9°30 | 16° 2 | 15°44 | 16°17 | 12° 2 | S 15 |
| M16 | 15 36 2 | 25°18'50 | 27° 9 | 11°11 | 22° 7 | 20°25 | 27°12 | 11° 0 | 10°33 | 18°42 | 9°31 | 16° 3 | 15°41 | 16°24 | 12° 5 | M16 |
| T 17 | 15 39 58 | 26°16'32 | 11 ° 3 | 13° 1 | 22°20 | 21°10 | 27°22 | 11°8 | 10°35 | 18°42 | 9°32 | 16° 3 | 15°38 | 16°31 | 12° 8 | T 17 |
| W18 | 15 43 55 | 27°14'12 | 24°47 | 14°49 | 22°34 | 21°56 | 27°33 | 11°16 | 10°38 | 18°42 | 9°34 | 16° 4 | 15°34 | 16°38 | 12°11 | W18 |
| T 19 | 15 47 51 | 28°11'52 | 8818 | 16°33 | 22°51 | 22°41 | 27°43 | 11°23 | 10°40 | 18°42 | 9°35 | 16° 5 | 15°31 | 16°44 | 12°13 | T 19 |
| F 20 | 15 51 48 | 29° 9'30 | 21°37 | 18°14 | 23° 9 | 23°26 | 27°54 | 11°31 | 10°43 | 18°42 | 9°36 | 16°R 5 | 15°28 | 16°51 | 12°16 | F 20 |
| S 21 | 15 55 45 | 0 Ⅱ 7'08 | 4 Ⅱ 40 | 19°53 | 23°29 | 24°11 | 28° 4 | 11°39 | 10°46 | 18°R42 | 9°37 | 16° 4 | 15°25 | 16°58 | 12°19 | S 21 |
| S 22 | 15 59 41 | 1° 4'44 | 17°29 | 21°28 | 23°51 | 24°56 | 28°14 | 11°46 | 10°48 | 18°42 | 9°39 | 16° 3 | 15°22 | 17° 5 | 12°21 | S 22 |
| M23 | 16 3 38 | 2° 2'19 | 0ණ 3 | 23° 0 | 24°14 | 25°41 | 28°24 | 11°54 | 10°50 | 18°42 | 9°40 | 16° 1 | 15°19 | 17°11 | 12°24 | M23 |
| T 24 | 16 7 34 | 2°59'52 | 12°23 | 24°29 | 24°40 | 26°26 | 28°34 | 12° 2 | 10°53 | 18°42 | 9°41 | 15°58 | 15°15 | 17°18 | 12°27 | T 24 |
| W25 | 16 11 31 | 3°57'24 | 24°32 | 25°55 | 25° 7 | 27°10 | 28°44 | 12°10 | 10°55 | 18°42 | 9°42 | 15°56 | 15°12 | 17°25 | 12°29 | W25 |
| T 26 | 16 15 27 | 4°54'55 | 6Ω 32 | 27°18 | 25°35 | 27°55 | 28°54 | 12°17 | 10°58 | 18°42 | 9°44 | 15°53 | 15° 9 | 17°31 | 12°32 | T 26 |
| F 27 | 16 19 24 | 5°52'25 | 18°26 | 28°37 | 26° 5 | 28°40 | 29° 3 | 12°25 | 11° 0 | 18°42 | 9°45 | 15°52 | 15° 6 | 17°38 | 12°34 | F 27 |
| S 28 | 16 23 20 | 6°49'53 | 0 m 19 | 29°53 | 26°36 | 29°25 | 29°13 | 12°33 | 11° 2 | 18°42 | 9°46 | 15°51 | 15° 3 | 17°45 | 12°37 | S 28 |
| S 29 | 16 27 17 | 7°47'20 | 12°15 | 195 6 | 27° 9 | 0 8 9 | 29°22 | 12°41 | 11° 4 | 18°41 | 9°48 | 15°D50 | 15° 0 | 17°52 | 12°39 | S 29 |
| M30 | 16 31 14 | 8°44'46 | 24°19 | 2°16 | 27°43 | 0°54 | 29°31 | 12°49 | 11° 7 | 18°41 | 9°49 | 15°51 | 14°56 | 17°58 | 12°42 | M30 |
| T 31 | 16 35 10 | 9 Ⅱ 42'11 | 6 ₽ 36 | 39522 | 28 Υ 18 | 1 8 38 | 29) 40 | 12 Ⅱ 57 | 11 Y 9 | 18 ≈ 41 | 9 95 50 | 15 M 53 | 14 M 53 | 18 N 5 | 12 Y 44 | T 31 |

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Greg. Calendar

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| Day | Sid.t | 0 | D | ğ | · | o ^r | 4 | ħ |)∤(| ¥ | В | U | v | Ç | Š, | Day |
|------|----------|-------------------|----------------|--------|----------------|----------------|------------------|----------------|----------------|----------------|-------|----------------|-----------------|------------------|----------------|------|
| W 1 | 16 39 7 | 10 Ⅲ 39'34 | 19 ♀ 9 | 49524 | 28 Y 54 | 2 8 23 | 29) (49 | 13耳 4 | 11 Y 11 | 18°R40 | 9952 | 15 M 54 | 14M50 | 18 Ω 12 | 12 Y 46 | W 1 |
| T 2 | 16 43 3 | 11°36'57 | 2M 2 | 5°23 | 29°32 | 3° 7 | 29°58 | 13°12 | 11°13 | 18 ≈ 40 | 9°53 | 15°56 | 14°47 | 18°18 | 12°49 | T 2 |
| F 3 | 16 47 0 | 12°34'18 | 15°17 | 6°18 | 0811 | 3°51 | 0 Υ 7 | 13°20 | 11°15 | 18°40 | 9°54 | 15°R56 | 14°44 | 18°25 | 12°51 | F 3 |
| S 4 | 16 50 56 | 13°31'38 | 28°56 | 7° 9 | 0°50 | 4°35 | 0°15 | 13°28 | 11°17 | 18°39 | 9°56 | 15°56 | 14°40 | 18°32 | 12°53 | S 4 |
| S 5 | 16 54 53 | 14°28'58 | 12 ₹ 56 | 7°57 | 1°31 | 5°20 | 0°24 | 13°36 | 11°19 | 18°39 | 9°57 | 15°54 | 14°37 | 18°39 | 12°55 | S 5 |
| M 6 | 16 58 49 | 15°26'17 | 27°14 | 8°41 | 2°13 | 6° 4 | 0°32 | 13°43 | 11°21 | 18°38 | 9°59 | 15°51 | 14°34 | 18°45 | 12°57 | M 6 |
| T 7 | 17 2 46 | 16°23'35 | 11 る 46 | 9°20 | 2°56 | 6°48 | 0°40 | 13°51 | 11°23 | 18°38 | 10° 0 | 15°47 | 14°31 | 18°52 | 12°59 | T 7 |
| W 8 | 17 6 43 | 17°20'53 | 26°24 | 9°56 | 3°40 | 7°32 | 0°48 | 13°59 | 11°25 | 18°37 | 10° 1 | 15°42 | 14°28 | 18°59 | 13° 1 | W 8 |
| T 9 | 17 10 39 | 18°18'10 | 11≈ 2 | 10°27 | 4°25 | 8°16 | 0°56 | 14° 7 | 11°26 | 18°37 | 10° 3 | 15°38 | 14°25 | 19° 6 | 13° 3 | T 9 |
| F 10 | 17 14 36 | 19°15'27 | 25°33 | 10°54 | 5°10 | 9° 0 | 1° 4 | 14°15 | 11°28 | 18°36 | 10° 4 | 15°35 | 14°21 | 19°12 | 13° 5 | F 10 |
| S 11 | 17 18 32 | 20°12'43 | 9 米 54 | 11°16 | 5°57 | 9°44 | 1°11 | 14°23 | 11°30 | 18°35 | 10° 6 | 15°33 | 14°18 | 19°19 | 13° 7 | S 11 |
| S 12 | 17 22 29 | 21° 9'59 | 24° 1 | 11°35 | 6°44 | 10°27 | 1°19 | 14°30 | 11°32 | 18°35 | 10° 7 | 15°D33 | 14°15 | 19°26 | 13° 9 | S 12 |
| M13 | 17 26 25 | 22° 7'15 | 7 Υ 52 | 11°48 | 7°32 | 11°11 | 1°26 | 14°38 | 11°33 | 18°34 | 10° 9 | 15°33 | 14°12 | 19°32 | 13°11 | M13 |
| T 14 | 17 30 22 | 23° 4'30 | 21°28 | 11°57 | 8°21 | 11°55 | 1°33 | 14°46 | 11°35 | 18°33 | 10°10 | 15°35 | 14° 9 | 19°39 | 13°12 | T 14 |
| W15 | 17 34 18 | 24° 1'46 | 4 8 50 | 12°R 2 | 9°10 | 12°38 | 1°40 | 14°54 | 11°36 | 18°33 | 10°12 | 15°36 | 14° 6 | 19°46 | 13°14 | W15 |
| T 16 | 17 38 15 | 24°59'01 | 17°58 | 12° 2 | 10° 0 | 13°22 | 1°47 | 15° 2 | 11°38 | 18°32 | 10°13 | 15°R36 | 14° 2 | 19°53 | 13°16 | T 16 |
| F 17 | 17 42 12 | 25°56'16 | 0耳54 | 11°57 | 10°51 | 14° 5 | 1°54 | 15° 9 | 11°39 | 18°31 | 10°15 | 15°35 | 13°59 | 19°59 | 13°17 | F 17 |
| S 18 | 17 46 8 | 26°53'31 | 13°37 | 11°48 | 11°43 | 14°49 | 2° 0 | 15°17 | 11°41 | 18°30 | 10°16 | 15°32 | 13°56 | 20° 6 | 13°19 | S 18 |
| S 19 | 17 50 5 | 27°50'45 | 26°10 | 11°35 | 12°35 | 15°32 | 2° 7 | 15°25 | 11°42 | 18°29 | 10°18 | 15°27 | 13°53 | 20°13 | 13°20 | S 19 |
| M20 | 17 54 1 | 28°47'59 | 8931 | 11°18 | 13°27 | 16°15 | 2°13 | 15°32 | 11°43 | 18°28 | 10°19 | 15°21 | 13°50 | 20°20 | 13°22 | M20 |
| T 21 | 17 57 58 | 29°45'13 | 20°43 | 10°57 | 14°20 | 16°58 | 2°19 | 15°40 | 11°45 | 18°28 | 10°21 | 15°13 | 13°46 | 20°26 | 13°23 | T 21 |
| W22 | 18 1 54 | 09542'26 | $2\Omega 47$ | 10°32 | 15°14 | 17°42 | 2°25 | 15°48 | 11°46 | 18°27 | 10°22 | 15° 5 | 13°43 | 20°33 | 13°25 | W22 |
| T 23 | 18 5 51 | 1°39'39 | 14°44 | 10° 4 | 16° 8 | 18°25 | 2°31 | 15°55 | 11°47 | 18°26 | 10°24 | 14°57 | 13°40 | 20°40 | 13°26 | T 23 |
| F 24 | 18 9 48 | 2°36'52 | 26°36 | 9°33 | 17° 3 | 19°8 | 2°36 | 16° 3 | 11°48 | 18°25 | 10°25 | 14°50 | 13°37 | 20°46 | 13°27 | F 24 |
| S 25 | 18 13 44 | 3°34'04 | 8 m 28 | 9° 0 | 17°58 | 19°51 | 2°42 | 16°11 | 11°49 | 18°24 | 10°27 | 14°45 | 13°34 | 20°53 | 13°28 | S 25 |
| S 26 | 18 17 41 | 4°31'16 | 20°22 | 8°26 | 18°54 | 20°33 | 2°47 | 16°18 | 11°50 | 18°23 | 10°28 | 14°42 | 13°31 | 21° 0 | 13°29 | S 26 |
| M27 | 18 21 37 | 5°28'27 | 2 ≏ 24 | 7°50 | 19°50 | 21°16 | 2°52 | 16°26 | 11°51 | 18°21 | 10°30 | 14°D41 | 13°27 | 21° 7 | 13°31 | M27 |
| T 28 | 18 25 34 | 6°25'38 | 14°38 | 7°13 | 20°47 | 21°59 | 2°57 | 16°33 | 11°52 | 18°20 | 10°31 | 14°41 | 13°24 | 21°13 | 13°32 | T 28 |
| W29 | 18 29 30 | 7°22'49 | 27° 9 | 6°36 | 21°44 | 22°42 | 3° 2 | 16°41 | 11°53 | 18°19 | 10°33 | 14°42 | 13°21 | 21°20 | 13°33 | W29 |
| T 30 | 18 33 27 | 8920'00 | 10 M 1 | 69 0 | 22841 | 23 8 24 | 3 Υ 6 | 16 Ⅱ 48 | 11 Y 54 | 18 ≈ 18 | 10934 | 14°R43 | 13 M .18 | 21 \$\Omega 27\$ | 13 Y 33 | T 30 |

Delta T = 24.57 sec

JULY 1678 GC 00:00 UT

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|--------------|----------------------|------------------------------|-------------------------|----------------|-----------------|----------------|--------------|-----------------|----------------|----------------|----------------|-----------------|------------------|------------------|----------------|--------------|
| F 1 | 18 37 23 | 99517'10 | 23 M 19 | 5°R26 | 23839 | 24 8 7 | 3 Υ11 | 16耳56 | 11 Y 55 | 18°R17 | 10936 | 14°R42 | 13 M .15 | 21 Ω 33 | 13 Y 34 | F 1 |
| S 2 | 18 41 20 | 10°14'21 | 7 .₹ 5 | 4953 | 24°38 | 24°49 | 3°15 | 17° 3 | 11°56 | 18 ≈ 16 | 10°37 | 14 M .40 | 13°12 | 21°40 | 13°35 | S 2 |
| S 3 | 18 45 17 | 11°11'31 | 21°17 | 4°23 | 25°36 | 25°32 | 3°19 | 17°11 | 11°56 | 18°15 | 10°39 | 14°36 | 13° 8 | 21°47 | 13°36 | S 3 |
| M 4 | 18 49 13 | 12° 8'41 | 5 ろ 53 | 3°55 | 26°35 | 26°14 | 3°23 | 17°18 | 11°57 | 18°13 | 10°41 | 14°30 | 13° 5 | 21°54 | 13°37 | M 4 |
| T 5 | 18 53 10 | 13° 5'52 | 20°47 | 3°31 | 27°35 | 26°56 | 3°27 | 17°25 | 11°58 | 18°12 | 10°42 | 14°22 | 13° 2 | 22° 0 | 13°37 | T 5 |
| W 6 | 18 57 6 | 14° 3'02 | 5≈49 | 3°11 | 28°34 | 27°38 | 3°30 | 17°33 | 11°58 | 18°11 | 10°44 | 14°13 | 12°59 | 22° 7 | 13°38 | W 6 |
| T 7 | 19 1 3 | 15° 0'13 | 20°51 | 2°56 | 29°35 | 28°20 | 3°33 | 17°40 | 11°59 | 18°10 | 10°45 | 14° 5 | 12°56 | 22°14 | 13°39 | T 7 |
| F 8 | 19 4 59 | 15°57'25 | 5) 43 | 2°45 | 0Д35 | 29° 2 | 3°37 | 17°47 | 11°59 | 18° 8 | 10°47 | 13°58 | 12°52 | 22°21 | 13°39 | F 8 |
| S 9 | 19 8 56 | 16°54'37 | 20°17 | 2°39 | 1°36 | 29°44 | 3°39 | 17°55 | 12° 0 | 18° 7 | 10°48 | 13°53 | 12°49 | 22°27 | 13°40 | S 9 |
| S 10 | 19 12 52 | 17°51'49 | 4 Υ31 | 2°D38 | 2°37 | 0Д26 | 3°42 | 18° 2 | 12° 0 | 18° 6 | 10°50 | 13°50 | 12°46 | 22°34 | 13°40 | S 10 |
| M11 | 19 16 49 | 18°49'02 | 18°22 | 2°43 | 3°38 | 1° 8 | 3°45 | 18° 9 | 12° 0 | 18° 4 | 10°51 | 13°D49 | 12°43 | 22°41 | 13°40 | M11 |
| T 12 | 19 20 46 | 19°46'16 | 1 8 51 | 2°53 | 4°40 | 1°50 | 3°47 | 18°16 | 12° 1 | 18° 3 | 10°53 | 13°50 | 12°40 | 22°47 | 13°41 | T 12 |
| W13 | 19 24 42 | 20°43'31 | 15° 0 | 3° 8 | 5°42 | 2°31 | 3°49 | 18°23 | 12° 1 | 18° 1 | 10°54 | 13°R50 | 12°37 | 22°54 | 13°41 | W13 |
| T 14 | 19 28 39 | 21°40'46 | 27°53 | 3°29 | 6°44 | 3°13 | 3°51 | 18°30 | 12° 1 | 18° 0 | 10°56 | 13°49 | 12°33 | 23° 1 | 13°41 | T 14 |
| F 15 | 19 32 35 | 22°38'02 | 10 Ⅱ 31 | 3°56 | 7°46 | 3°54 | 3°53 | 18°37 | 12° 1 | 17°59 | 10°57 | 13°46 | 12°30 | 23° 8 | 13°41 | F 15 |
| S 16 | 19 36 32 | 23°35'19 | 22°58 | 4°28 | 8°49 | 4°36 | 3°55 | 18°44 | 12° 1 | 17°57 | 10°59 | 13°41 | 12°27 | 23°14 | 13°41 | S 16 |
| S 17 | 19 40 28 | 24°32'36 | 59916 | 5° 6 | 9°52 | 5°17 | 3°56 | 18°51 | 12°R 1 | 17°56 | 11° 0 | 13°32 | 12°24 | 23°21 | 13°R41 | S 17 |
| M18 | 19 44 25 | 25°29'54 | 17°25 | 5°50 | 10°55 | 5°58 | 3°57 | 18°58 | 12° 1 | 17°54 | 11° 2 | 13°22 | 12°21 | 23°28 | 13°41 | M18 |
| T 19 | 19 48 21 | 26°27'13 | 29°28 | 6°39 | 11°59 | 6°40 | 3°59 | 19° 4 | 12° 1 | 17°53 | 11° 3 | 13° 9 | 12°18 | 23°34 | 13°41 | T 19 |
| W20 | 19 52 18 | 27°24'33 | 11026 | 7°33 | 13° 3 | 7°21 | 3°59 | 19°11 | 12° 1 | 17°51 | 11° 5 | 12°56 | 12°14 | 23°41 | 13°41 | W20 |
| T 21 | 19 56 15 | 28°21'52 | 23°19 | 8°33 | 14° 7 | 8° 2 | 4° 0 | 19°18 | 12° 1 | 17°50 | 11° 6 | 12°43 | 12°11 | 23°48 | 13°41 | T 21 |
| F 22 S 23 | 20 0 11 20 4 8 | 29°19'13 0 Ω 16'34 | 5 m)10 17°1 | 9°38 10°49 | 15°11 16°15 | 8°43 9°24 | 4° 0 4° 1 | 19°25 19°31 | 12° 1 12° 1 | 17°48 17°47 | 11° 8 11° 9 | 12°32 12°23 | 12° 8 12° 5 | 23°55 24° 1 | 13°41 13°40 | F 22 S 23 |
| | | | | | | | | | | | | | | | | |
| S 24 | 20 8 4 | 1°13'56 | 28°54 | 12° 4 | 17°20 | 10° 4 | 4°R 1 | 19°38 | 12° 0 | 17°45 | 11°11 | 12°17 | 12° 2 | 24° 8 | 13°40 | S 24 |
| M25 | 20 12 1 | 2°11'18 | 10₽55 | 13°24 | 18°24 | 10°45 | 4° 1 | 19°44 | 12° 0 | 17°44 | 11°12 | 12°13 | 11°58 | 24°15 | 13°39 | M25 |
| T 26 | 20 15 57 | 3° 8'41 | 23° 6 | 14°50 | 19°29 | 11°26 | 4° 0 | 19°51 | 11°59 | 17°42 | 11°14 | 12°11 | 11°55 | 24°22 | 13°39 | T 26 |
| W27 | 20 19 54 | 4° 6'04 | 5MJ34 | 16°19 | 20°35 21°40 | 12° 6 12°47 | 4° 0 3°59 | 19°57 20° 3 | 11°59 | 17°40 17°39 | 11°15 11°17 | 12°11 12°11 | 11°52 11°49 | 24°28 | 13°38 13°38 | W27 T 28 |
| T 28 F 29 | 20 23 50 20 27 47 | 5° 3'28 6° 0'53 | 18°23 1 ∡ 737 | 17°54 19°32 | 21°40 22°46 | 12°47 13°27 | 3°59 3°58 | 20° 3 20°10 | 11°59 11°58 | 17°39 17°37 | 11°17 11°18 | 12°11 12°10 | 11°49 11°46 | 24°35 24°42 | 13°38 13°37 | F 29 |
| S 30 | 20 27 47 | 6°58'18 | 15°19 | 21°14 | 23°51 | 13 27 14° 7 | 3°57 | 20°16 | 11°57 | 17°36 | 11°19 | 12 10 12° 7 | 11°43 | 24°48 | 13°37 | S 30 |
| S 31 | 20 35 40 | $7\Omega_{55'44}$ | 29 × 732 | 239 0 | 24 I I57 | 14 T / | 3Υ56 | 20 II | 11 ° 57 | 17≈34 | 119521 | 12 / 12 ML 2 | 11 43 11 ML39 | 24 46 24Ω55 | 13 ° 36 | S 31 |
| 3 31 | 20 33 40 | 18633.44 | 29 X '32 | ر وڪد∠ | 24 L 3/ | 14Д4/ | 3 1 36 | ZU II ZZ | 11 1 3/ | 1/≈34 | 115071 | 12116 Z | 1111639 | 24 6 (33 | 13 36 | 331 |

Delta T = 24.53 sec

Greg. Calendar

AUGUST 1678 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | δ | 4 | ħ | ď | ¥ | Р | £ | ಬ | Ç | ę, | Day |
|------|----------|--------------------|------------------|---------------|-------|----------------|---------------|-----------------|----------------|----------------|--------|-----------------|-----------------|----------------|----------------|------|
| M 1 | 20 39 37 | 8 Ω 53'11 | 14 ට 12 | 249549 | 26耳 3 | 15 Ⅱ 28 | 3°R54 | 20∏28 | 11°R56 | 17°R33 | 119522 | 11°R54 | 11 M .36 | 25⋒ 2 | 13°R35 | M 1 |
| T 2 | 20 43 33 | 9°50'39 | 29°15 | 26°41 | 27°10 | 16° 8 | 3 Υ 52 | 20°34 | 11 Y 55 | 17 ≈ 31 | 11°24 | 11 M .44 | 11°33 | 25° 9 | 13 Y 34 | T 2 |
| W 3 | 20 47 30 | 10°48'08 | 14≈30 | 28°36 | 28°16 | 16°48 | 3°50 | 20°40 | 11°55 | 17°29 | 11°25 | 11°33 | 11°30 | 25°15 | 13°33 | W 3 |
| T 4 | 20 51 26 | 11°45'38 | 29°48 | 0€32 | 29°23 | 17°27 | 3°48 | 20°46 | 11°54 | 17°28 | 11°26 | 11°23 | 11°27 | 25°22 | 13°32 | T 4 |
| F 5 | 20 55 23 | 12°43'09 | 14) (57 | 2°31 | 09529 | 18° 7 | 3°46 | 20°52 | 11°53 | 17°26 | 11°28 | 11°14 | 11°23 | 25°29 | 13°31 | F 5 |
| S 6 | 20 59 19 | 13°40'41 | 29°47 | 4°31 | 1°36 | 18°47 | 3°44 | 20°58 | 11°52 | 17°24 | 11°29 | 11° 7 | 11°20 | 25°35 | 13°30 | S 6 |
| S 7 | 21 3 16 | 14°38'15 | 14 Y 12 | 6°33 | 2°44 | 19°26 | 3°41 | 21° 3 | 11°51 | 17°23 | 11°30 | 11° 3 | 11°17 | 25°42 | 13°29 | S 7 |
| M 8 | 21 7 13 | 15°35'50 | 28°11 | 8°35 | 3°51 | 20° 6 | 3°38 | 21° 9 | 11°50 | 17°21 | 11°32 | 11° 2 | 11°14 | 25°49 | 13°28 | M 8 |
| T 9 | 21 11 9 | 16°33'27 | 11842 | 10°37 | 4°58 | 20°45 | 3°35 | 21°15 | 11°49 | 17°20 | 11°33 | 11° 1 | 11°11 | 25°56 | 13°27 | T 9 |
| W10 | 21 15 6 | 17°31'05 | 24°49 | 12°40 | 6° 6 | 21°25 | 3°32 | 21°20 | 11°48 | 17°18 | 11°34 | 11° 1 | 11° 8 | 26° 2 | 13°26 | W10 |
| T 11 | 21 19 2 | 18°28'45 | 7 I I36 | 14°42 | 7°14 | 22° 4 | 3°28 | 21°26 | 11°47 | 17°16 | 11°36 | 11° 0 | 11° 4 | 26° 9 | 13°25 | T 11 |
| F 12 | 21 22 59 | 19°26'27 | 20° 6 | 16°44 | 8°22 | 22°43 | 3°25 | 21°31 | 11°46 | 17°15 | 11°37 | 10°57 | 11° 1 | 26°16 | 13°23 | F 12 |
| S 13 | 21 26 55 | 20°24'10 | 2923 | 18°46 | 9°30 | 23°22 | 3°21 | 21°36 | 11°44 | 17°13 | 11°38 | 10°51 | 10°58 | 26°22 | 13°22 | S 13 |
| S 14 | 21 30 52 | 21°21'55 | 14°30 | 20°47 | 10°38 | 24° 1 | 3°17 | 21°42 | 11°43 | 17°11 | 11°39 | 10°43 | 10°55 | 26°29 | 13°20 | S 14 |
| M15 | 21 34 48 | 22°19'41 | 26°31 | 22°47 | 11°46 | 24°40 | 3°13 | 21°47 | 11°42 | 17°10 | 11°41 | 10°32 | 10°52 | 26°36 | 13°19 | M15 |
| T 16 | 21 38 45 | 23°17'28 | 8 Ω 27 | 24°46 | 12°55 | 25°19 | 3° 8 | 21°52 | 11°40 | 17° 8 | 11°42 | 10°19 | 10°49 | 26°43 | 13°17 | T 16 |
| W17 | 21 42 42 | 24°15'18 | 20°20 | 26°44 | 14° 3 | 25°58 | 3° 4 | 21°57 | 11°39 | 17° 6 | 11°43 | 10° 5 | 10°45 | 26°49 | 13°16 | W17 |
| T 18 | 21 46 38 | 25°13'08 | 2 Mp 1 1 | 28°41 | 15°12 | 26°36 | 2°59 | 22° 2 | 11°38 | 17° 5 | 11°44 | 9°52 | 10°42 | 26°56 | 13°14 | T 18 |
| F 19 | 21 50 35 | 26°11'00 | 14° 3 | 0 m 36 | 16°21 | 27°15 | 2°54 | 22° 7 | 11°36 | 17° 3 | 11°45 | 9°40 | 10°39 | 27° 3 | 13°12 | F 19 |
| S 20 | 21 54 31 | 27° 8'53 | 25°56 | 2°31 | 17°30 | 27°53 | 2°49 | 22°11 | 11°35 | 17° 2 | 11°47 | 9°31 | 10°36 | 27°10 | 13°11 | S 20 |
| S 21 | 21 58 28 | 28° 6'48 | 7 ≙ 53 | 4°24 | 18°39 | 28°31 | 2°44 | 22°16 | 11°33 | 17° 0 | 11°48 | 9°24 | 10°33 | 27°16 | 13° 9 | S 21 |
| M22 | 22 2 24 | 29° 4'44 | 19°56 | 6°16 | 19°48 | 29° 9 | 2°39 | 22°21 | 11°32 | 16°58 | 11°49 | 9°20 | 10°29 | 27°23 | 13° 7 | M22 |
| T 23 | 22 6 21 | 0 Mp 2'42 | 2 m 10 | 8° 6 | 20°58 | 29°47 | 2°33 | 22°25 | 11°30 | 16°57 | 11°50 | 9°18 | 10°26 | 27°30 | 13° 5 | T 23 |
| W24 | 22 10 17 | 1° 0'41 | 14°37 | 9°56 | 22° 7 | 0925 | 2°27 | 22°30 | 11°28 | 16°55 | 11°51 | 9°D18 | 10°23 | 27°36 | 13° 4 | W24 |
| T 25 | 22 14 14 | 1°58'41 | 27°24 | 11°44 | 23°17 | 1° 3 | 2°22 | 22°34 | 11°27 | 16°54 | 11°52 | 9°R18 | 10°20 | 27°43 | 13° 2 | T 25 |
| F 26 | 22 18 10 | 2°56'43 | 10 × 33 | 13°30 | 24°26 | 1°41 | 2°16 | 22°38 | 11°25 | 16°52 | 11°53 | 9°18 | 10°17 | 27°50 | 13° 0 | F 26 |
| S 27 | 22 22 7 | 3°54'46 | 24° 8 | 15°16 | 25°36 | 2°19 | 2°10 | 22°42 | 11°23 | 16°51 | 11°54 | 9°17 | 10°14 | 27°57 | 12°58 | S 27 |
| S 28 | 22 26 4 | 4°52'50 | 8 ට 12 | 17° 0 | 26°46 | 2°56 | 2° 3 | 22°46 | 11°21 | 16°49 | 11°55 | 9°13 | 10°10 | 28° 3 | 12°56 | S 28 |
| M29 | 22 30 0 | 5°50'56 | 22°44 | 18°43 | 27°56 | 3°34 | 1°57 | 22°50 | 11°20 | 16°47 | 11°56 | 9° 7 | 10° 7 | 28°10 | 12°54 | M29 |
| T 30 | 22 33 57 | 6°49'04 | 7≈39 | 20°25 | 29° 6 | 4°11 | 1°51 | 22°54 | 11°18 | 16°46 | 11°57 | 8°58 | 10° 4 | 28°17 | 12°51 | T 30 |
| W31 | 22 37 53 | 7 m) 47'12 | 22≈52 | 22 Mg 5 | 0Ω17 | 49548 | 1 Υ 44 | 22 II 58 | 11 Y 16 | 16≈44 | 119558 | 8 M .49 | 10 M 1 | 28 Ω 23 | 12 Y 49 | W31 |

Delta T = 24.48 sec

SEPTEMBER 1678 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | Ф | δ | 4 | ħ |)ұ(| ¥ | Б | U | ය | Ç | ٥ پ | Day |
|------|----------|------------------|-----------------|----------------|---------------|--------|----------------|-----------------|----------------|--------|--------|----------------|----------------|---------------|----------------|------|
| T 1 | 22 41 50 | 8 Mp 45'23 | 8 ∺ 10 | 23 Mp 44 | 1 Q 27 | 5925 | 1°R37 | 23Ⅲ 2 | 11°R14 | 16°R43 | 119559 | 8°R41 | 9 M .58 | 28€30 | 12°R47 | T 1 |
| F 2 | 22 45 46 | 9°43'35 | 23°24 | 25°22 | 2°37 | 6° 2 | 1 Y 30 | 23° 5 | 11 Y 12 | 16≈42 | 12° 0 | 8 M .33 | 9°55 | 28°37 | 12 Y 45 | F 2 |
| S 3 | 22 49 43 | 10°41'49 | 8 Ƴ 23 | 26°59 | 3°48 | 6°39 | 1°23 | 23° 9 | 11°10 | 16°40 | 12° 1 | 8°28 | 9°51 | 28°44 | 12°43 | S 3 |
| S 4 | 22 53 39 | 11°40'05 | 22°58 | 28°35 | 4°59 | 7°16 | 1°16 | 23°12 | 11°8 | 16°39 | 12° 2 | 8°24 | 9°48 | 28°50 | 12°40 | S 4 |
| M 5 | 22 57 36 | 12°38'23 | 7 8 6 | 0 ჲ 10 | 6°10 | 7°53 | 1° 9 | 23°16 | 11° 6 | 16°37 | 12° 3 | 8°D23 | 9°45 | 28°57 | 12°38 | M 5 |
| T 6 | 23 1 33 | 13°36'43 | 20°45 | 1°43 | 7°20 | 8°29 | 1° 2 | 23°19 | 11° 4 | 16°36 | 12° 3 | 8°24 | 9°42 | 29° 4 | 12°36 | T 6 |
| W 7 | 23 5 29 | 14°35'05 | 3 Ⅱ 58 | 3°16 | 8°31 | 9° 6 | 0°55 | 23°22 | 11° 2 | 16°34 | 12° 4 | 8°25 | 9°39 | 29°10 | 12°33 | W 7 |
| T 8 | 23 9 26 | 15°33'30 | 16°46 | 4°47 | 9°43 | 9°42 | 0°47 | 23°25 | 11° 0 | 16°33 | 12° 5 | 8°R25 | 9°35 | 29°17 | 12°31 | T 8 |
| F 9 | 23 13 22 | 16°31'56 | 29°15 | 6°17 | 10°54 | 10°18 | 0°40 | 23°28 | 10°58 | 16°32 | 12° 6 | 8°24 | 9°32 | 29°24 | 12°28 | F 9 |
| S 10 | 23 17 19 | 17°30'25 | 119529 | 7°46 | 12° 5 | 10°54 | 0°32 | 23°31 | 10°56 | 16°30 | 12° 7 | 8°21 | 9°29 | 29°31 | 12°26 | S 10 |
| S 11 | 23 21 15 | 18°28'56 | 23°32 | 9°14 | 13°17 | 11°30 | 0°24 | 23°34 | 10°53 | 16°29 | 12° 7 | 8°16 | 9°26 | 29°37 | 12°23 | S 11 |
| M12 | 23 25 12 | 19°27'29 | $5\Omega 28$ | 10°40 | 14°28 | 12° 6 | 0°17 | 23°37 | 10°51 | 16°28 | 12° 8 | 8° 9 | 9°23 | 29°44 | 12°21 | M12 |
| T 13 | 23 29 8 | 20°26'04 | 17°21 | 12° 6 | 15°40 | 12°41 | 0° 9 | 23°39 | 10°49 | 16°26 | 12° 9 | 8° 1 | 9°20 | 29°51 | 12°18 | T 13 |
| W14 | 23 33 5 | 21°24'41 | 29°12 | 13°30 | 16°51 | 13°17 | 0° 1 | 23°42 | 10°47 | 16°25 | 12°10 | 7°52 | 9°16 | 29°57 | 12°16 | W14 |
| T 15 | 23 37 2 | 22°23'20 | 11 m) 4 | 14°53 | 18° 3 | 13°52 | 29 米 53 | 23°44 | 10°44 | 16°24 | 12°10 | 7°43 | 9°13 | 0Mp 4 | 12°13 | T 15 |
| F 16 | 23 40 58 | 23°22'02 | 22°59 | 16°15 | 19°15 | 14°28 | 29°45 | 23°46 | 10°42 | 16°23 | 12°11 | 7°35 | 9°10 | 0°11 | 12°11 | F 16 |
| S 17 | 23 44 55 | 24°20'45 | 4 Ω 59 | 17°36 | 20°27 | 15° 3 | 29°37 | 23°48 | 10°40 | 16°21 | 12°11 | 7°29 | 9° 7 | 0°18 | 12° 8 | S 17 |
| S 18 | 23 48 51 | 25°19'30 | 17° 4 | 18°55 | 21°39 | 15°38 | 29°29 | 23°50 | 10°38 | 16°20 | 12°12 | 7°25 | 9° 4 | 0°24 | 12° 5 | S 18 |
| M19 | 23 52 48 | 26°18'17 | 29°17 | 20°13 | 22°51 | 16°13 | 29°21 | 23°52 | 10°35 | 16°19 | 12°13 | 7°23 | 9° 0 | 0°31 | 12° 3 | M19 |
| T 20 | 23 56 44 | 27°17'06 | 11 M 40 | 21°30 | 24° 3 | 16°47 | 29°13 | 23°54 | 10°33 | 16°18 | 12°13 | 7°D22 | 8°57 | 0°38 | 12° 0 | T 20 |
| W21 | 0 041 | 28°15'56 | 24°16 | 22°45 | 25°16 | 17°22 | 29° 5 | 23°56 | 10°31 | 16°17 | 12°14 | 7°23 | 8°54 | 0°44 | 11°57 | W21 |
| T 22 | 0 4 37 | 29°14'49 | 7 ,7 7 | 23°58 | 26°28 | 17°56 | 28°57 | 23°57 | 10°28 | 16°16 | 12°14 | 7°25 | 8°51 | 0°51 | 11°54 | T 22 |
| F 23 | 0 8 34 | 0 ≏ 13'43 | 20°17 | 25°10 | 27°40 | 18°31 | 28°49 | 23°59 | 10°26 | 16°15 | 12°15 | 7°26 | 8°48 | 0°58 | 11°52 | F 23 |
| S 24 | 0 12 30 | 1°12'39 | 3 ⋜ 48 | 26°20 | 28°53 | 19° 5 | 28°41 | 24° 0 | 10°23 | 16°13 | 12°15 | 7°R27 | 8°45 | 1° 5 | 11°49 | S 24 |
| S 25 | 0 16 27 | 2°11'37 | 17°42 | 27°29 | 0Mp 6 | 19°39 | 28°33 | 24° 2 | 10°21 | 16°12 | 12°16 | 7°26 | 8°41 | 1°11 | 11°46 | S 25 |
| M26 | 0 20 24 | 3°10'36 | 1≈59 | 28°35 | 1°18 | 20°13 | 28°25 | 24° 3 | 10°19 | 16°11 | 12°16 | 7°23 | 8°38 | 1°18 | 11°43 | M26 |
| T 27 | 0 24 20 | 4° 9'38 | 16°38 | 29°39 | 2°31 | 20°46 | 28°17 | 24° 4 | 10°16 | 16°10 | 12°16 | 7°19 | 8°35 | 1°25 | 11°41 | T 27 |
| W28 | 0 28 17 | 5° 8'41 | 1 ★ 32 | 0 M .41 | 3°44 | 21°20 | 28° 9 | 24° 5 | 10°14 | 16°10 | 12°17 | 7°15 | 8°32 | 1°31 | 11°38 | W28 |
| T 29 | 0 32 13 | 6° 7'45 | 16°34 | 1°40 | 4°57 | 21°53 | 28° 1 | 24° 6 | 10°11 | 16° 9 | 12°17 | 7°10 | 8°29 | 1°38 | 11°35 | T 29 |
| F 30 | 0 36 10 | 7 ♀ 6'52 | 1 Υ 37 | 2M36 | 6 m 10 | 229526 | 27 米 53 | 24 I I 6 | 10 ⋎ 9 | 16≈ 8 | 129517 | 7 M 6 | 8 M 26 | 1 m 45 | 11 Y 32 | F 30 |

Delta T = 24.43 sec

Greg. Calendar

OCTOBER 1678 GC 00:00 UT

| Day | Sid.t | \odot | 2) | φ | · | o ⁷ | 4 | ħ |)γ(| ¥ | 5 | R | Ω | ţ | δ | Day |
|------|---------|------------------|----------------|----------------|----------------|----------------|------------------|----------------|---------------|--------|--------|---------------|---------------|---------------|----------------|------|
| S 1 | 0 40 6 | 8 ≏ 6'01 | 16 Y 29 | 3 M .30 | 7 m 23 | 22959 | 27°R46 | 24 I 7 | 10°R 7 | 16°R 7 | 12918 | 7°R 4 | 8 M 22 | 1 m 51 | 11°R29 | S 1 |
| S 2 | 0 44 3 | 9° 5'12 | 18 4 | 4°20 | 8°36 | 23°32 | 27) 38 | 24° 8 | 10 Υ 4 | 16≈ 6 | 12°18 | 7°D 2 | 8°19 | 1°58 | 11 Y 27 | S 2 |
| M 3 | 0 47 59 | 10° 4'25 | 15°16 | 5° 7 | 9°49 | 24° 5 | 27°30 | 24° 8 | 10° 2 | 16° 5 | 12°18 | 7 m 2 | 8°16 | 2° 5 | 11°24 | M 3 |
| T 4 | 0 51 56 | 11° 3'40 | 29° 1 | 5°50 | 11° 2 | 24°38 | 27°22 | 24° 8 | 9°59 | 16° 4 | 12°18 | 7° 3 | 8°13 | 2°12 | 11°21 | T 4 |
| W 5 | 0 55 53 | 12° 2'58 | 12Ⅲ20 | 6°28 | 12°16 | 25°10 | 27°15 | 24° 8 | 9°57 | 16° 4 | 12°19 | 7° 5 | 8°10 | 2°18 | 11°18 | W 5 |
| T 6 | 0 59 49 | 13° 2'18 | 25°14 | 7° 2 | 13°29 | 25°42 | 27° 8 | 24°R 8 | 9°54 | 16° 3 | 12°19 | 7° 7 | 8° 6 | 2°25 | 11°15 | T 6 |
| F 7 | 1 3 46 | 14° 1'40 | 79547 | 7°31 | 14°42 | 26°14 | 27° 0 | 24° 8 | 9°52 | 16° 2 | 12°19 | 7° 7 | 8° 3 | 2°32 | 11°12 | F 7 |
| S 8 | 1 7 42 | 15° 1'05 | 20° 3 | 7°55 | 15°56 | 26°46 | 26°53 | 24° 8 | 9°50 | 16° 2 | 12°19 | 7°R 8 | 8° 0 | 2°38 | 11°10 | S 8 |
| S 9 | 1 11 39 | 16° 0'31 | 2 0 7 | 8°12 | 17° 9 | 27°18 | 26°46 | 24° 8 | 9°47 | 16° 1 | 12°19 | 7° 7 | 7°57 | 2°45 | 11° 7 | S 9 |
| M10 | 1 15 35 | 17° 0'01 | 14° 2 | 8°23 | 18°23 | 27°49 | 26°39 | 24° 8 | 9°45 | 16° 0 | 12°19 | 7° 5 | 7°54 | 2°52 | 11° 4 | M10 |
| T 11 | 1 19 32 | 17°59'32 | 25°53 | 8°R27 | 19°37 | 28°20 | 26°32 | 24° 7 | 9°42 | 16° 0 | 12°19 | 7° 2 | 7°51 | 2°59 | 11° 1 | T 11 |
| W12 | 1 23 28 | 18°59'06 | 7 m 45 | 8°24 | 20°51 | 28°51 | 26°25 | 24° 7 | 9°40 | 15°59 | 12°19 | 6°59 | 7°47 | 3° 5 | 10°58 | W12 |
| T 13 | 1 27 25 | 19°58'42 | 19°40 | 8°12 | 22° 4 | 29°22 | 26°18 | 24° 6 | 9°38 | 15°59 | 12°R19 | 6°56 | 7°44 | 3°12 | 10°56 | T 13 |
| F 14 | 1 31 22 | 20°58'20 | 1 ≏ 40 | 7°52 | 23°18 | 29°53 | 26°11 | 24° 5 | 9°35 | 15°58 | 12°19 | 6°54 | 7°41 | 3°19 | 10°53 | F 14 |
| S 15 | 1 35 18 | 21°58'00 | 13°49 | 7°23 | 24°32 | 0 £ 23 | 26° 5 | 24° 4 | 9°33 | 15°58 | 12°19 | 6°52 | 7°38 | 3°25 | 10°50 | S 15 |
| S 16 | 1 39 15 | 22°57'42 | 26° 7 | 6°46 | 25°46 | 0°54 | 25°59 | 24° 3 | 9°30 | 15°57 | 12°19 | 6°51 | 7°35 | 3°32 | 10°47 | S 16 |
| M17 | 1 43 11 | 23°57'26 | 8 M .36 | 6° 0 | 27° 0 | 1°24 | 25°52 | 24° 2 | 9°28 | 15°57 | 12°19 | 6°D51 | 7°31 | 3°39 | 10°45 | M17 |
| T 18 | 1 47 8 | 24°57'12 | 21°17 | 5° 5 | 28°14 | 1°53 | 25°46 | 24° 1 | 9°26 | 15°57 | 12°19 | 6°51 | 7°28 | 3°46 | 10°42 | T 18 |
| W19 | 151 4 | 25°57'00 | 4 ₹ 10 | 4° 4 | 29°28 | 2°23 | 25°40 | 23°59 | 9°23 | 15°56 | 12°19 | 6°52 | 7°25 | 3°52 | 10°39 | W19 |
| T 20 | 1 55 1 | 26°56'50 | 1 <u>7</u> °17 | 2°55 | 0 ჲ 43 | 2°52 | 25°35 | 23°58 | 9°21 | 15°56 | 12°19 | 6°53 | 7°22 | 3°59 | 10°36 | T 20 |
| F 21 | 1 58 57 | 27°56'42 | 0 궁 38 | 1°42 | 1°57 | 3°21 | 25°29 | 23°56 | 9°19 | 15°56 | 12°18 | 6°54 | 7°19 | 4° 6 | 10°34 | F 21 |
| S 22 | 2 2 54 | 28°56'35 | 14°14 | 0°26 | 3°11 | 3°50 | 25°23 | 23°54 | 9°17 | 15°56 | 12°18 | 6°54 | 7°16 | 4°12 | 10°31 | S 22 |
| S 23 | 2 6 5 1 | 29°56'30 | 28° 6 | 29 ≏ 10 | 4°25 | 4°19 | 25°18 | 23°53 | 9°14 | 15°56 | 12°18 | 6°R54 | 7°12 | 4°19 | 10°28 | S 23 |
| M24 | 2 10 47 | 0 M 56'27 | 12≈12 | 27°55 | 5°40 | 4°47 | 25°13 | 23°51 | 9°12 | 15°55 | 12°18 | 6°54 | 7° 9 | 4°26 | 10°26 | M24 |
| T 25 | 2 14 44 | 1°56'25 | 26°32 | 26°44 | 6°54 | 5°15 | 25° 8 | 23°49 | 9°10 | 15°55 | 12°17 | 6°54 | 7° 6 | 4°33 | 10°23 | T 25 |
| W26 | 2 18 40 | 2°56'24 | 11 米 2 | 25°39 | 8° 8 | 5°43 | 25° 3 | 23°47 | 9° 8 | 15°55 | 12°17 | 6°54 | 7° 3 | 4°39 | 10°21 | W26 |
| T 27 | 2 22 37 | 3°56'26 | 25°38 | 24°42 | 9°23 | 6°11 | 24°59 | 23°44 | 9° 6 | 15°55 | 12°17 | 6°53 | 7° 0 | 4°46 | 10°18 | T 27 |
| F 28 | 2 26 33 | 4°56'29 | 10 Y 15 | 23°55 | 10°37 | 6°38 | 24°54 | 23°42 | 9° 4 | 15°D55 | 12°16 | 6°53 | 6°57 | 4°53 | 10°16 | F 28 |
| S 29 | 2 30 30 | 5°56'33 | 24°46 | 23°19 | 11°52 | 7° 5 | 24°50 | 23°40 | 9° 1 | 15°55 | 12°16 | 6°53 | 6°53 | 4°59 | 10°13 | S 29 |
| S 30 | 2 34 26 | 6°56'40 | 9 8 6 | 22°54 | 13° 6 | 7°32 | 24°46 | 23°37 | 8°59 | 15°55 | 12°16 | 6°53 | 6°50 | 5° 6 | 10°11 | S 30 |
| M31 | 2 38 23 | 7 M 56'48 | 23 8 8 | 22 ≏ 41 | 14 ≏ 21 | 7 Ω 58 | 24) (42 | 23 Ⅱ 35 | 8 Ƴ 57 | 15≈55 | 129515 | 6 M 53 | 6 M 47 | 5 m 13 | 10 Y 8 | M31 |

Delta T = 24.38 sec

NOVEMBER 1678 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)Å(| ¥ | Р | V | Ω | ţ | , k | Day |
|------|---------|------------------|----------------|-----------------------|----------------|----------------|----------------|-----------------|---------------|-------|--------|----------------|----------------|-----------------|---------------|------|
| T 1 | 2 42 19 | 8M56'59 | 6 Ⅱ 51 | 22°D39 | 15 ≏ 36 | 8 Ω 25 | 24°R38 | 23°R32 | 8°R55 | 15≈55 | 12°R15 | 6°R53 | 6 M .44 | 5 m)19 | 10°R 6 | T 1 |
| W 2 | 2 46 16 | 9°57'11 | 20°11 | 22 <u>•</u> 48 | 16°50 | 8°51 | 24) 35 | 23耳29 | 8 Y 53 | 15°56 | 129514 | 6ML52 | 6°41 | 5°26 | 10 Y 4 | W 2 |
| T 3 | 2 50 13 | 10°57'25 | 3 9 5 9 | 23° 8 | 18° 5 | 9°16 | 24°31 | 23°26 | 8°51 | 15°56 | 12°14 | 6°52 | 6°37 | 5°33 | 10° 1 | T 3 |
| F 4 | 2 54 9 | 11°57'42 | 15°46 | 23°38 | 19°20 | 9°42 | 24°28 | 23°23 | 8°49 | 15°56 | 12°13 | 6°51 | 6°34 | 5°40 | 9°59 | F 4 |
| S 5 | 2 58 6 | 12°58'00 | 28° 5 | 24°16 | 20°35 | 10° 7 | 24°25 | 23°20 | 8°48 | 15°56 | 12°13 | 6°51 | 6°31 | 5°46 | 9°57 | S 5 |
| S 6 | 3 2 2 | 13°58'20 | 10 Ω 11 | 25° 2 | 21°50 | 10°31 | 24°23 | 23°17 | 8°46 | 15°57 | 12°12 | 6°D51 | 6°28 | 5°53 | 9°54 | S 6 |
| M 7 | 3 5 59 | 14°58'42 | 22° 7 | 25°55 | 23° 4 | 10°56 | 24°20 | 23°14 | 8°44 | 15°57 | 12°12 | 6°51 | 6°25 | 6° 0 | 9°52 | M 7 |
| T 8 | 3 9 55 | 15°59'06 | 3 m 59 | 26°54 | 24°19 | 11°20 | 24°18 | 23°10 | 8°42 | 15°57 | 12°11 | 6°51 | 6°22 | 6° 6 | 9°50 | T 8 |
| W 9 | 3 13 52 | 16°59'32 | 15°51 | 27°59 | 25°34 | 11°44 | 24°15 | 23° 7 | 8°40 | 15°58 | 12°10 | 6°52 | 6°18 | 6°13 | 9°48 | W 9 |
| T 10 | 3 17 48 | 18° 0'00 | 27°47 | 29° 8 | 26°49 | 12° 7 | 24°14 | 23° 3 | 8°39 | 15°58 | 12°10 | 6°53 | 6°15 | 6°20 | 9°46 | T 10 |
| F 11 | 3 21 45 | 19° 0'30 | 9 ≙ 52 | 0M22 | 28° 4 | 12°30 | 24°12 | 23° 0 | 8°37 | 15°59 | 12° 9 | 6°54 | 6°12 | 6°26 | 9°44 | F 11 |
| S 12 | 3 25 42 | 20° 1'01 | 22° 9 | 1°38 | 29°19 | 12°53 | 24°10 | 22°56 | 8°35 | 15°59 | 12° 8 | 6°55 | 6° 9 | 6°33 | 9°42 | S 12 |
| S 13 | 3 29 38 | 21° 1'34 | 4 M .40 | 2°58 | 0 M .34 | 13°15 | 24° 9 | 22°52 | 8°34 | 16° 0 | 12° 8 | 6°R56 | 6° 6 | 6°40 | 9°40 | S 13 |
| M14 | 3 33 35 | 22° 2'09 | 17°26 | 4°20 | 1°49 | 13°37 | 24° 8 | 22°48 | 8°32 | 16° 0 | 12° 7 | 6°55 | 6° 3 | 6°47 | 9°38 | M14 |
| T 15 | 3 37 31 | 23° 2'45 | 0 ₹ 29 | 5°44 | 3° 4 | 13°59 | 24° 7 | 22°45 | 8°31 | 16° 1 | 12° 6 | 6°54 | 5°59 | 6°53 | 9°36 | T 15 |
| W16 | 3 41 28 | 24° 3'23 | 13°47 | 7°10 | 4°19 | 14°20 | 24° 6 | 22°41 | 8°29 | 16° 1 | 12° 6 | 6°52 | 5°56 | 7° 0 | 9°34 | W16 |
| T 17 | 3 45 24 | 25° 4'02 | 27°20 | 8°38 | 5°35 | 14°40 | 24° 6 | 22°36 | 8°28 | 16° 2 | 12° 5 | 6°50 | 5°53 | 7° 7 | 9°33 | T 17 |
| F 18 | 3 49 21 | 26° 4'43 | 11중 4 | 10° 6 | 6°50 | 15° 1 | 24° 5 | 22°32 | 8°26 | 16° 3 | 12° 4 | 6°47 | 5°50 | 7°13 | 9°31 | F 18 |
| S 19 | 3 53 17 | 27° 5'24 | 24°59 | 11°36 | 8° 5 | 15°21 | 24°D 5 | 22°28 | 8°25 | 16° 4 | 12° 3 | 6°45 | 5°47 | 7°20 | 9°29 | S 19 |
| S 20 | 3 57 14 | 28° 6'07 | 9≈ 0 | 13° 6 | 9°20 | 15°40 | 24° 5 | 22°24 | 8°23 | 16° 4 | 12° 2 | 6°43 | 5°43 | 7°27 | 9°27 | S 20 |
| M21 | 4 111 | 29° 6'51 | 23° 7 | 14°37 | 10°35 | 15°59 | 24° 6 | 22°20 | 8°22 | 16° 5 | 12° 1 | 6°D42 | 5°40 | 7°34 | 9°26 | M21 |
| T 22 | 4 5 7 | 0 才 7'35 | 7 ∺ 18 | 16° 9 | 11°50 | 16°18 | 24° 6 | 22°15 | 8°21 | 16° 6 | 12° 1 | 6°42 | 5°37 | 7°40 | 9°24 | T 22 |
| W23 | 4 9 4 | 1° 8'21 | 21°29 | 17°41 | 13° 6 | 16°36 | 24° 7 | 22°11 | 8°20 | 16° 7 | 12° 0 | 6°43 | 5°34 | 7°47 | 9°23 | W23 |
| T 24 | 4 13 0 | 2° 9'08 | 5 Υ 40 | 19°13 | 14°21 | 16°54 | 24° 8 | 22° 6 | 8°19 | 16° 8 | 11°59 | 6°44 | 5°31 | 7°54 | 9°21 | T 24 |
| F 25 | 4 16 57 | 3° 9'55 | 19°47 | 20°45 | 15°36 | 17°11 | 24° 9 | 22° 2 | 8°17 | 16° 9 | 11°58 | 6°46 | 5°28 | 8° 0 | 9°20 | F 25 |
| S 26 | 4 20 53 | 4°10'44 | 3 8 49 | 22°18 | 16°51 | 17°28 | 24°11 | 21°57 | 8°16 | 16°10 | 11°57 | 6°R46 | 5°24 | 8° 7 | 9°19 | S 26 |
| S 27 | 4 24 50 | 5°11'33 | 17°43 | 23°51 | 18° 7 | 17°44 | 24°12 | 21°53 | 8°15 | 16°11 | 11°56 | 6°46 | 5°21 | 8°14 | 9°17 | S 27 |
| M28 | 4 28 46 | 6°12'24 | 1∏24 | 25°24 | 19°22 | 18° 0 | 24°14 | 21°48 | 8°14 | 16°12 | 11°55 | 6°44 | 5°18 | 8°20 | 9°16 | M28 |
| T 29 | 4 32 43 | 7°13'16 | 14°52 | 26°58 | 20°37 | 18°15 | 24°16 | 21°43 | 8°13 | 16°13 | 11°54 | 6°40 | 5°15 | 8°27 | 9°15 | T 29 |
| W30 | 4 36 40 | 8 √ 14'09 | 28耳 3 | 28MJ31 | 21 M 53 | 18 Ω 30 | 24) 18 | 21 II 39 | 8 Υ 13 | 16≈14 | 11953 | 6 M .36 | 5 M .12 | 8 m) 34 | 9 Υ 14 | W30 |

Delta T = 24.33 sec

Greg. Calendar

| DECEMBED 4650 00 | 00.00. |
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| DECEMBER 1678 GC | 00:00 UT |

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ħ | В | V | S | Ç | ę, | Day |
|------|---------|-------------------|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|-------|--------|---------------|----------------|-----------------|---------------|------|
| T 1 | 4 40 36 | 9 .7 15'03 | 10956 | 0 ,₹ 4 | 23M 8 | 18 Ω 44 | 24) 21 | 21°R34 | 8°R12 | 16≈15 | 11°R52 | 6°R30 | 5 M 9 | 8 m /41 | 9°R13 | T 1 |
| F 2 | 4 44 33 | 10°15'58 | 23°32 | 1°38 | 24°23 | 18°57 | 24°23 | 21 Ⅱ 29 | 8 Y 11 | 16°16 | 11951 | 6ML24 | 5° 5 | 8°47 | 9 Υ 12 | F 2 |
| S 3 | 4 48 29 | 11°16'55 | 5 Ω 52 | 3°11 | 25°39 | 19°11 | 24°26 | 21°24 | 8°10 | 16°17 | 11°50 | 6°19 | 5° 2 | 8°54 | 9°11 | S 3 |
| S 4 | 4 52 26 | 12°17'52 | 17°59 | 4°45 | 26°54 | 19°23 | 24°29 | 21°19 | 8°10 | 16°19 | 11°49 | 6°14 | 4°59 | 9° 1 | 9°10 | S 4 |
| M 5 | 4 56 22 | 13°18'51 | 29°55 | 6°18 | 28° 9 | 19°35 | 24°32 | 21°14 | 8° 9 | 16°20 | 11°48 | 6°11 | 4°56 | 9° 7 | 9° 9 | M 5 |
| T 6 | 5 0 19 | 14°19'51 | 11 Mp 47 | 7°52 | 29°25 | 19°46 | 24°36 | 21°10 | 8° 8 | 16°21 | 11°47 | 6°D10 | 4°53 | 9°14 | 9° 8 | T 6 |
| W 7 | 5 4 16 | 15°20'52 | 23°38 | 9°26 | 0 ,₹ 40 | 19°57 | 24°39 | 21° 5 | 8° 8 | 16°22 | 11°45 | 6°11 | 4°49 | 9°21 | 9° 7 | W 7 |
| T 8 | 5 8 12 | 16°21'54 | 5 ≏ 34 | 10°59 | 1°55 | 20° 7 | 24°43 | 21° 0 | 8° 7 | 16°24 | 11°44 | 6°12 | 4°46 | 9°27 | 9° 7 | T 8 |
| F 9 | 5 12 9 | 17°22'57 | 17°39 | 12°33 | 3°11 | 20°17 | 24°47 | 20°55 | 8° 7 | 16°25 | 11°43 | 6°14 | 4°43 | 9°34 | 9° 6 | F 9 |
| S 10 | 5 16 5 | 18°24'00 | 29°59 | 14° 7 | 4°26 | 20°26 | 24°51 | 20°50 | 8° 7 | 16°26 | 11°42 | 6°R15 | 4°40 | 9°41 | 9° 5 | S 10 |
| S 11 | 5 20 2 | 19°25'05 | 12 M 37 | 15°41 | 5°42 | 20°34 | 24°55 | 20°45 | 8° 6 | 16°28 | 11°41 | 6°15 | 4°37 | 9°48 | 9° 5 | S 11 |
| M12 | 5 23 58 | 20°26'11 | 25°37 | 17°15 | 6°57 | 20°41 | 25° 0 | 20°40 | 8° 6 | 16°29 | 11°40 | 6°13 | 4°34 | 9°54 | 9° 4 | M12 |
| T 13 | 5 27 55 | 21°27'18 | 8 才 58 | 18°50 | 8°13 | 20°48 | 25° 5 | 20°35 | 8° 6 | 16°31 | 11°39 | 6° 9 | 4°30 | 10° 1 | 9° 4 | T 13 |
| W14 | 5 31 51 | 22°28'25 | 22°41 | 20°24 | 9°28 | 20°55 | 25°10 | 20°30 | 8° 5 | 16°32 | 11°37 | 6° 3 | 4°27 | 10° 8 | 9° 3 | W14 |
| T 15 | 5 35 48 | 23°29'33 | 6 ප 41 | 21°59 | 10°43 | 21° 0 | 25°15 | 20°25 | 8° 5 | 16°34 | 11°36 | 5°55 | 4°24 | 10°14 | 9° 3 | T 15 |
| F 16 | 5 39 45 | 24°30'41 | 20°56 | 23°34 | 11°59 | 21° 5 | 25°20 | 20°20 | 8° 5 | 16°35 | 11°35 | 5°47 | 4°21 | 10°21 | 9° 3 | F 16 |
| S 17 | 5 43 41 | 25°31'50 | 5≈18 | 25° 9 | 13°14 | 21° 9 | 25°25 | 20°15 | 8°D 5 | 16°37 | 11°34 | 5°39 | 4°18 | 10°28 | 9° 3 | S 17 |
| S 18 | 5 47 38 | 26°32'59 | 19°43 | 26°44 | 14°30 | 21°12 | 25°31 | 20°10 | 8° 5 | 16°38 | 11°33 | 5°32 | 4°15 | 10°34 | 9° 3 | S 18 |
| M19 | 5 51 34 | 27°34'08 | 4) € 5 | 28°19 | 15°45 | 21°15 | 25°37 | 20° 5 | 8° 5 | 16°40 | 11°31 | 5°27 | 4°11 | 10°41 | 9° 3 | M19 |
| T 20 | 5 55 31 | 28°35'16 | 18°20 | 29°55 | 17° 1 | 21°17 | 25°43 | 20° 0 | 8° 5 | 16°42 | 11°30 | 5°25 | 4° 8 | 10°48 | 9°D 2 | T 20 |
| W21 | 5 59 27 | 29°36'25 | 2 Y 26 | 1 る 30 | 18°16 | 21°18 | 25°49 | 19°56 | 8° 6 | 16°43 | 11°29 | 5°D25 | 4° 5 | 10°55 | 9° 3 | W21 |
| T 22 | 6 3 24 | 0 ට 37'34 | 16°22 | 3° 7 | 19°32 | 21°R18 | 25°55 | 19°51 | 8° 6 | 16°45 | 11°28 | 5°25 | 4° 2 | 11° 1 | 9° 3 | T 22 |
| F 23 | 6 7 20 | 1°38'43 | 8 B 0 | 4°43 | 20°47 | 21°17 | 26° 2 | 19°46 | 8° 6 | 16°47 | 11°27 | 5°R26 | 3°59 | 11°8 | 9° 3 | F 23 |
| S 24 | 6 11 17 | 2°39'52 | 13°44 | 6°20 | 22° 3 | 21°16 | 26° 9 | 19°41 | 8° 7 | 16°49 | 11°25 | 5°26 | 3°55 | 11°15 | 9° 3 | S 24 |
| S 25 | 6 15 14 | 3°41'01 | 27°11 | 7°56 | 23°18 | 21°14 | 26°15 | 19°36 | 8° 7 | 16°50 | 11°24 | 5°24 | 3°52 | 11°21 | 9° 3 | S 25 |
| M26 | 6 19 10 | 4°42'10 | 10Ⅲ27 | 9°34 | 24°33 | 21°11 | 26°22 | 19°32 | 8° 7 | 16°52 | 11°23 | 5°19 | 3°49 | 11°28 | 9° 4 | M26 |
| T 27 | 6 23 7 | 5°43'19 | 23°32 | 11°11 | 25°49 | 21° 8 | 26°30 | 19°27 | 8°8 | 16°54 | 11°22 | 5°11 | 3°46 | 11°35 | 9° 4 | T 27 |
| W28 | 6 27 3 | 6°44'28 | 69326 | 12°49 | 27° 4 | 21° 3 | 26°37 | 19°22 | 8° 8 | 16°56 | 11°20 | 5° 1 | 3°43 | 11°41 | 9° 4 | W28 |
| T 29 | 6 31 0 | 7°45'36 | 19° 6 | 14°27 | 28°20 | 20°58 | 26°44 | 19°18 | 8° 9 | 16°58 | 11°19 | 4°49 | 3°40 | 11°48 | 9° 5 | T 29 |
| F 30 | 6 34 56 | 8°46'45 | 1 Ω 34 | 16° 5 | 29°35 | 20°52 | 26°52 | 19°13 | 8°10 | 17° 0 | 11°18 | 4°37 | 3°36 | 11°55 | 9° 6 | F 30 |
| S 31 | 6 38 53 | 9 ප 47'54 | 13 Ω 49 | 17 云 44 | 0 궁 51 | 20 Ω 45 | 27 ∺ 0 | 19耳 9 | 8 Y 10 | 17≈ 1 | 119917 | 4 M 25 | 3 TL 33 | 12 M) 1 | 9 Y 6 | S 31 |

Delta T = 24.28 sec

JANUARY 1679 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | o [™] | 4 | ħ |)f(| ¥ | В | ₽. | Ω | Ç | ę, | Day |
|------|---------|----------|------------------|--------|---------------|----------------|---------------|-----------------|---------------|---------------|--------|----------------|----------------|-----------------|---------------|------|
| S 1 | 6 42 49 | 10る49'03 | 25 Ω 53 | 19る23 | 2පි 6 | 20°R38 | 27) 8 | 19°R 4 | 8 Υ 11 | 17≈ 3 | 11°R15 | 4°R15 | 3 M .30 | 12 M) 8 | 9 Υ 7 | S 1 |
| M 2 | 6 46 46 | 11°50'12 | 7 m 49 | 21° 1 | 3°22 | $20\Omega 29$ | 27°16 | 19 I I 0 | 8°12 | 17° 5 | 119514 | 4 m 7 | 3°27 | 12°15 | 9°8 | M 2 |
| T 3 | 6 50 43 | 12°51'21 | 19°39 | 22°41 | 4°37 | 20°20 | 27°24 | 18°56 | 8°13 | 17° 7 | 11°13 | 4° 2 | 3°24 | 12°22 | 9°8 | T 3 |
| W 4 | 6 54 39 | 13°52'30 | 1 ≏ 28 | 24°20 | 5°52 | 20°10 | 27°33 | 18°51 | 8°14 | 17° 9 | 11°11 | 3°59 | 3°21 | 12°28 | 9° 9 | W 4 |
| T 5 | 6 58 36 | 14°53'39 | 13°21 | 25°59 | 7° 8 | 19°59 | 27°41 | 18°47 | 8°15 | 17°11 | 11°10 | 3°D58 | 3°17 | 12°35 | 9°10 | T 5 |
| F 6 | 7 2 32 | 15°54'48 | 25°24 | 27°38 | 8°23 | 19°47 | 27°50 | 18°43 | 8°16 | 17°13 | 11° 9 | 3°58 | 3°14 | 12°42 | 9°11 | F 6 |
| S 7 | 7 6 29 | 16°55'57 | 7 M .42 | 29°17 | 9°39 | 19°34 | 27°59 | 18°39 | 8°17 | 17°15 | 11° 8 | 3°R58 | 3°11 | 12°48 | 9°12 | S 7 |
| S 8 | 7 10 25 | 17°57'06 | 20°20 | 0≈55 | 10°54 | 19°21 | 28° 8 | 18°35 | 8°18 | 17°17 | 11° 6 | 3°57 | 3° 8 | 12°55 | 9°13 | S 8 |
| M 9 | 7 14 22 | 18°58'15 | 3 ₹ 22 | 2°33 | 12°10 | 19° 7 | 28°17 | 18°31 | 8°19 | 17°19 | 11° 5 | 3°54 | 3° 5 | 13° 2 | 9°14 | M 9 |
| T 10 | 7 18 18 | 19°59'24 | 16°51 | 4°11 | 13°25 | 18°52 | 28°26 | 18°27 | 8°20 | 17°21 | 11° 4 | 3°48 | 3° 1 | 13° 8 | 9°15 | T 10 |
| W11 | 7 22 15 | 21° 0'32 | 0 국 48 | 5°47 | 14°41 | 18°37 | 28°35 | 18°23 | 8°21 | 17°23 | 11° 3 | 3°39 | 2°58 | 13°15 | 9°17 | W11 |
| T 12 | 7 26 12 | 22° 1'40 | 15° 8 | 7°23 | 15°56 | 18°20 | 28°45 | 18°20 | 8°23 | 17°26 | 11° 1 | 3°28 | 2°55 | 13°22 | 9°18 | T 12 |
| F 13 | 7 30 8 | 23° 2'48 | 29°48 | 8°57 | 17°11 | 18° 3 | 28°54 | 18°16 | 8°24 | 17°28 | 11° 0 | 3°16 | 2°52 | 13°28 | 9°19 | F 13 |
| S 14 | 7 34 5 | 24° 3'55 | 14 ≈ 39 | 10°29 | 18°27 | 17°45 | 29° 4 | 18°12 | 8°26 | 17°30 | 10°59 | 3° 4 | 2°49 | 13°35 | 9°21 | S 14 |
| S 15 | 7 38 1 | 25° 5'01 | 29°31 | 11°59 | 19°42 | 17°27 | 29°14 | 18° 9 | 8°27 | 17°32 | 10°58 | 2°54 | 2°46 | 13°42 | 9°22 | S 15 |
| M16 | 7 41 58 | 26° 6'06 | 14) (17 | 13°26 | 20°58 | 17° 8 | 29°24 | 18° 6 | 8°28 | 17°34 | 10°57 | 2°46 | 2°42 | 13°49 | 9°24 | M16 |
| T 17 | 7 45 54 | 27° 7'10 | 28°50 | 14°50 | 22°13 | 16°48 | 29°34 | 18° 2 | 8°30 | 17°36 | 10°55 | 2°41 | 2°39 | 13°55 | 9°25 | T 17 |
| W18 | 7 49 51 | 28° 8'13 | 13 Y 6 | 16°10 | 23°28 | 16°28 | 29°44 | 17°59 | 8°32 | 17°38 | 10°54 | 2°39 | 2°36 | 14° 2 | 9°27 | W18 |
| T 19 | 7 53 47 | 29° 9'16 | 27° 3 | 17°26 | 24°44 | 16° 8 | 29°55 | 17°56 | 8°33 | 17°41 | 10°53 | 2°39 | 2°33 | 14° 9 | 9°28 | T 19 |
| F 20 | 7 57 44 | 0≈10'17 | 10 8 43 | 18°37 | 25°59 | 15°46 | 0 Υ 5 | 17°53 | 8°35 | 17°43 | 10°52 | 2°39 | 2°30 | 14°15 | 9°30 | F 20 |
| S 21 | 8 1 41 | 1°11'17 | 24° 5 | 19°41 | 27°15 | 15°25 | 0°16 | 17°50 | 8°37 | 17°45 | 10°51 | 2°38 | 2°26 | 14°22 | 9°32 | S 21 |
| S 22 | 8 5 3 7 | 2°12'16 | 7 Ⅱ 13 | 20°39 | 28°30 | 15° 3 | 0°26 | 17°47 | 8°38 | 17°47 | 10°49 | 2°35 | 2°23 | 14°29 | 9°34 | S 22 |
| M23 | 8 9 34 | 3°13'13 | 20° 9 | 21°29 | 29°45 | 14°40 | 0°37 | 17°45 | 8°40 | 17°49 | 10°48 | 2°28 | 2°20 | 14°35 | 9°36 | M23 |
| T 24 | 8 13 30 | 4°14'10 | 2953 | 22°11 | 1≈ 1 | 14°17 | 0°48 | 17°42 | 8°42 | 17°52 | 10°47 | 2°19 | 2°17 | 14°42 | 9°37 | T 24 |
| W25 | 8 17 27 | 5°15'05 | 15°27 | 22°44 | 2°16 | 13°54 | 0°59 | 17°39 | 8°44 | 17°54 | 10°46 | 2° 7 | 2°14 | 14°49 | 9°39 | W25 |
| T 26 | 8 21 23 | 6°16'00 | 27°51 | 23° 7 | 3°31 | 13°31 | 1°10 | 17°37 | 8°46 | 17°56 | 10°45 | 1°53 | 2°11 | 14°55 | 9°41 | T 26 |
| F 27 | 8 25 20 | 7°16'53 | 10Ω 6 | 23°19 | 4°47 | 13° 7 | 1°22 | 17°35 | 8°48 | 17°58 | 10°44 | 1°39 | 2° 7 | 15° 2 | 9°43 | F 27 |
| S 28 | 8 29 16 | 8°17'45 | 22°13 | 23°R20 | 6° 2 | 12°44 | 1°33 | 17°32 | 8°50 | 18° 1 | 10°43 | 1°24 | 2° 4 | 15° 9 | 9°46 | S 28 |
| S 29 | 8 33 13 | 9°18'36 | 4 Mp 11 | 23°10 | 7°17 | 12°20 | 1°44 | 17°30 | 8°52 | 18° 3 | 10°42 | 1°12 | 2° 1 | 15°15 | 9°48 | S 29 |
| M30 | 8 37 10 | 10°19'27 | 16° 4 | 22°49 | 8°32 | 11°56 | 1°56 | 17°28 | 8°54 | 18° 5 | 10°40 | 1° 2 | 1°58 | 15°22 | 9°50 | M30 |
| T 31 | 8 41 6 | 11≈20'16 | 27 m 53 | 22≈17 | 9 ≈ 48 | 11 Ω 32 | 2 ♈ 7 | 17 Ⅲ 26 | 8 Υ 56 | 18 ≈ 7 | 10939 | 0 M .54 | 1 M 55 | 15 M 29 | 9 Ƴ 52 | T 31 |
| | | | • | | | | | | | | | | | ٠. | | |

Delta T = 24.23 sec Gre

Greg. Calendar

FEBRUARY 1679 GC 00:00 UT

| Day | Sid.t | 0 | 9 | φ | Q. | ð | 4 | ħ | ¥ | ¥ | 2 | n | Ω | ţ | Š. | Day |
|------|----------|--------------------|-----------------|--------|----------------|----------------|---------------|----------------|----------------|-------|--------|----------------|---------------|-----------------|----------------|------|
| W 1 | 8 45 3 | 12≈21'04 | 9 ≙ 41 | 21°R35 | 11≈ 3 | 11°R 8 | 2 Υ 19 | 17°R25 | 8 Y 58 | 18≈10 | 10°R38 | 0°R50 | 1ML52 | 15 m /36 | 9 Ƴ 54 | W 1 |
| T 2 | 8 48 59 | 13°21'51 | 21°33 | 20≈44 | 12°18 | 10 Ω 44 | 2°31 | 17 Ⅲ 23 | 9° 1 | 18°12 | 10937 | 0 M .48 | 1°48 | 15°42 | 9°57 | T 2 |
| F 3 | 8 52 56 | 14°22'37 | 3 M .33 | 19°46 | 13°34 | 10°20 | 2°43 | 17°21 | 9° 3 | 18°14 | 10°36 | 0°D48 | 1°45 | 15°49 | 9°59 | F 3 |
| S 4 | 8 56 52 | 15°23'22 | 15°47 | 18°42 | 14°49 | 9°56 | 2°55 | 17°20 | 9° 5 | 18°16 | 10°35 | 0°R48 | 1°42 | 15°56 | 10° 2 | S 4 |
| S 5 | 9 0 49 | 16°24'06 | 28°21 | 17°33 | 16° 4 | 9°33 | 3° 7 | 17°18 | 9° 8 | 18°19 | 10°34 | 0°48 | 1°39 | 16° 2 | 10° 4 | S 5 |
| M 6 | 9 4 45 | 17°24'49 | 11 .7 19 | 16°23 | 17°19 | 9° 9 | 3°19 | 17°17 | 9°10 | 18°21 | 10°33 | 0°45 | 1°36 | 16° 9 | 10° 6 | M 6 |
| T 7 | 9 8 42 | 18°25'31 | 24°45 | 15°12 | 18°34 | 8°46 | 3°31 | 17°16 | 9°12 | 18°23 | 10°32 | 0°41 | 1°32 | 16°16 | 10° 9 | T 7 |
| W 8 | 9 12 39 | 19°26'12 | 8 조 40 | 14° 3 | 19°50 | 8°24 | 3°44 | 17°15 | 9°15 | 18°26 | 10°31 | 0°33 | 1°29 | 16°22 | 10°12 | W 8 |
| T 9 | 9 16 35 | 20°26'52 | 23° 5 | 12°57 | 21° 5 | 8° 1 | 3°56 | 17°14 | 9°17 | 18°28 | 10°30 | 0°24 | 1°26 | 16°29 | 10°14 | T 9 |
| F 10 | 9 20 32 | 21°27'30 | 7≈55 | 11°56 | 22°20 | 7°40 | 4° 8 | 17°13 | 9°20 | 18°30 | 10°29 | 0°13 | 1°23 | 16°36 | 10°17 | F 10 |
| S 11 | 9 24 28 | 22°28'07 | 23° 1 | 11° 1 | 23°35 | 7°18 | 4°21 | 17°12 | 9°23 | 18°32 | 10°29 | 0° 2 | 1°20 | 16°42 | 10°20 | S 11 |
| S 12 | 9 28 25 | 23°28'42 | 8) €13 | 10°13 | 24°50 | 6°57 | 4°34 | 17°12 | 9°25 | 18°35 | 10°28 | 29 ₾ 53 | 1°17 | 16°49 | 10°22 | S 12 |
| M13 | 9 32 21 | 24°29'16 | 23°22 | 9°31 | 26° 6 | 6°37 | 4°46 | 17°11 | 9°28 | 18°37 | 10°27 | 29°46 | 1°13 | 16°56 | 10°25 | M13 |
| T 14 | 9 36 18 | 25°29'48 | 8 Y 16 | 8°58 | 27°21 | 6°17 | 4°59 | 17°11 | 9°30 | 18°39 | 10°26 | 29°42 | 1°10 | 17° 2 | 10°28 | T 14 |
| W15 | 9 40 14 | 26°30'18 | 22°50 | 8°32 | 28°36 | 5°57 | 5°12 | 17°11 | 9°33 | 18°41 | 10°25 | 29°40 | 1° 7 | 17° 9 | 10°31 | W15 |
| T 16 | 9 44 11 | 27°30'46 | 7 8 1 | 8°13 | 29°51 | 5°39 | 5°25 | 17°11 | 9°36 | 18°44 | 10°24 | 29°D40 | 1° 4 | 17°16 | 10°34 | T 16 |
| F 17 | 9 48 8 | 28°31'13 | 20°47 | 8° 2 | 1 米 6 | 5°21 | 5°38 | 17°D11 | 9°39 | 18°46 | 10°24 | 29°40 | 1° 1 | 17°22 | 10°36 | F 17 |
| S 18 | 9 52 4 | 29°31'37 | 4 I I 9 | 7°D58 | 2°21 | 5° 3 | 5°51 | 17°11 | 9°41 | 18°48 | 10°23 | 29°R41 | 0°58 | 17°29 | 10°39 | S 18 |
| S 19 | 9 56 1 | 0) € 32'00 | 17°12 | 8° 1 | 3°36 | 4°46 | 6° 4 | 17°11 | 9°44 | 18°50 | 10°22 | 29°39 | 0°54 | 17°36 | 10°42 | S 19 |
| M20 | 9 59 57 | 1°32'21 | 29°57 | 8°10 | 4°51 | 4°30 | 6°17 | 17°11 | 9°47 | 18°53 | 10°21 | 29°35 | 0°51 | 17°43 | 10°45 | M20 |
| T 21 | 10 3 54 | 2°32'39 | 129529 | 8°25 | 6° 6 | 4°15 | 6°30 | 17°12 | 9°50 | 18°55 | 10°21 | 29°29 | 0°48 | 17°49 | 10°48 | T 21 |
| W22 | 10 7 50 | 3°32'56 | 24°48 | 8°46 | 7°21 | 4° 0 | 6°44 | 17°12 | 9°53 | 18°57 | 10°20 | 29°21 | 0°45 | 17°56 | 10°52 | W22 |
| T 23 | 10 11 47 | 4°33'11 | 6 Ω 59 | 9°12 | 8°36 | 3°47 | 6°57 | 17°13 | 9°56 | 18°59 | 10°19 | 29°11 | 0°42 | 18° 3 | 10°55 | T 23 |
| F 24 | 10 15 43 | 5°33'23 | 19° 2 | 9°44 | 9°51 | 3°33 | 7°10 | 17°14 | 9°59 | 19° 2 | 10°19 | 29° 0 | 0°38 | 18° 9 | 10°58 | F 24 |
| S 25 | 10 19 40 | 6°33'34 | 1 Mp 0 | 10°19 | 11° 6 | 3°21 | 7°24 | 17°15 | 10° 2 | 19° 4 | 10°18 | 28°49 | 0°35 | 18°16 | 11° 1 | S 25 |
| S 26 | 10 23 37 | 7°33'43 | 12°53 | 10°59 | 12°21 | 3°10 | 7°37 | 17°16 | 10° 5 | 19° 6 | 10°17 | 28°40 | 0°32 | 18°23 | 11° 4 | S 26 |
| M27 | 10 27 33 | 8°33'51 | 24°43 | 11°43 | 13°36 | 2°59 | 7°51 | 17°17 | 10° 8 | 19° 8 | 10°17 | 28°33 | 0°29 | 18°29 | 11° 7 | M27 |
| T 28 | 10 31 30 | 9 米 33'56 | 6 ₽ 31 | 12≈31 | 14 米 51 | 2 Ω 49 | 8 Ƴ 4 | 17 Ⅲ 18 | 10 Y 11 | 19≈10 | 109516 | 28 ≏ 28 | 0 M 26 | 18 M 36 | 11 Y 11 | T 28 |

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| Day | Sid.t | \odot | D | ğ | Q. | ð | 4 | ħ |)f(| 卉 | В | ß | v | Ç | , k | Day |
|------|----------|--------------------|----------------|----------------|----------------|---------------|----------------|-----------------|----------------|----------------|--------|----------------|----------------|-----------------|----------------|------|
| W 1 | 10 35 26 | 10) ₹34'00 | 18 ≏ 22 | 13≈22 | 16 ¥ 6 | 2°R40 | 8 Υ 18 | 17 I I19 | 10 Υ 14 | 19 ≈ 13 | 10°R16 | 28°R25 | 0M23 | 18 M)43 | 11 Y 14 | W 1 |
| T 2 | 10 39 23 | 11°34'02 | 0 M .16 | 14°16 | 17°20 | 2 Ω 31 | 8°32 | 17°21 | 10°17 | 19°15 | 109915 | 28°D25 | 0°19 | 18°49 | 11°17 | T 2 |
| F 3 | 10 43 19 | 12°34'02 | 12°19 | 15°13 | 18°35 | 2°23 | 8°46 | 17°22 | 10°20 | 19°17 | 10°15 | 28 ≏ 25 | 0°16 | 18°56 | 11°20 | F 3 |
| S 4 | 10 47 16 | 13°34'01 | 24°34 | 16°13 | 19°50 | 2°17 | 8°59 | 17°24 | 10°23 | 19°19 | 10°14 | 28°27 | 0°13 | 19° 3 | 11°24 | S 4 |
| S 5 | 10 51 12 | 14°33'58 | 7 ₹ 5 | 17°15 | 21° 5 | 2°10 | 9°13 | 17°26 | 10°26 | 19°21 | 10°14 | 28°28 | 0°10 | 19° 9 | 11°27 | S 5 |
| M 6 | 10 55 9 | 15°33'54 | 19°59 | 18°20 | 22°20 | 2° 5 | 9°27 | 17°27 | 10°29 | 19°23 | 10°13 | 28°R28 | 0° 7 | 19°16 | 11°31 | M 6 |
| T 7 | 10 59 5 | 16°33'48 | 3 ਰ 17 | 19°28 | 23°34 | 2° 1 | 9°41 | 17°29 | 10°33 | 19°25 | 10°13 | 28°27 | 0° 4 | 19°23 | 11°34 | T 7 |
| W 8 | 11 3 2 | 17°33'40 | 17° 4 | 20°37 | 24°49 | 1°57 | 9°55 | 17°32 | 10°36 | 19°27 | 10°12 | 28°24 | 0° 0 | 19°29 | 11°37 | W 8 |
| T 9 | 11 6 59 | 18°33'30 | 1≈20 | 21°49 | 26° 4 | 1°54 | 10° 9 | 17°34 | 10°39 | 19°29 | 10°12 | 28°19 | 29 ≙ 57 | 19°36 | 11°41 | T 9 |
| F 10 | 11 10 55 | 19°33'19 | 16° 2 | 23° 2 | 27°19 | 1°52 | 10°23 | 17°36 | 10°42 | 19°31 | 10°12 | 28°13 | 29°54 | 19°43 | 11°44 | F 10 |
| S 11 | 11 14 52 | 20°33'06 | 1 ∺ 4 | 24°17 | 28°33 | 1°50 | 10°37 | 17°38 | 10°46 | 19°33 | 10°11 | 28° 7 | 29°51 | 19°49 | 11°48 | S 11 |
| S 12 | 11 18 48 | 21°32'51 | 16°19 | 25°34 | 29°48 | 1°D50 | 10°51 | 17°41 | 10°49 | 19°35 | 10°11 | 28° 2 | 29°48 | 19°56 | 11°51 | S 12 |
| M13 | 11 22 45 | 22°32'34 | 1 Y 35 | 26°53 | 1 Υ 3 | 1°50 | 11° 5 | 17°44 | 10°52 | 19°37 | 10°11 | 27°58 | 29°44 | 20° 3 | 11°55 | M13 |
| T 14 | 11 26 41 | 23°32'15 | 16°42 | 28°14 | 2°17 | 1°50 | 11°19 | 17°46 | 10°56 | 19°39 | 10°10 | 27°56 | 29°41 | 20° 9 | 11°58 | T 14 |
| W15 | 11 30 38 | 24°31'54 | 1831 | 29°36 | 3°32 | 1°52 | 11°33 | 17°49 | 10°59 | 19°41 | 10°10 | 27°D56 | 29°38 | 20°16 | 12° 2 | W15 |
| T 16 | 11 34 34 | 25°31'30 | 15°56 | 1 ∺ 0 | 4°46 | 1°54 | 11°48 | 17°52 | 11° 2 | 19°43 | 10°10 | 27°57 | 29°35 | 20°23 | 12° 5 | T 16 |
| F 17 | 11 38 31 | 26°31'05 | 29°55 | 2°25 | 6° 1 | 1°57 | 12° 2 | 17°55 | 11° 6 | 19°45 | 10°10 | 27°58 | 29°32 | 20°29 | 12° 9 | F 17 |
| S 18 | 11 42 28 | 27°30'37 | 13 Ⅱ 27 | 3°52 | 7°16 | 2° 1 | 12°16 | 17°58 | 11° 9 | 19°47 | 10°10 | 28° 0 | 29°29 | 20°36 | 12°13 | S 18 |
| S 19 | 11 46 24 | 28°30'06 | 26°35 | 5°20 | 8°30 | 2° 5 | 12°30 | 18° 2 | 11°12 | 19°49 | 10°10 | 28°R 0 | 29°25 | 20°43 | 12°16 | S 19 |
| M20 | 11 50 21 | 29°29'34 | 9 9 21 | 6°49 | 9°45 | 2°10 | 12°45 | 18° 5 | 11°16 | 19°51 | 10° 9 | 28° 0 | 29°22 | 20°50 | 12°20 | M20 |
| T 21 | 11 54 17 | 0 ℃ 28'59 | 21°48 | 8°21 | 10°59 | 2°16 | 12°59 | 18° 8 | 11°19 | 19°53 | 10° 9 | 27°58 | 29°19 | 20°56 | 12°23 | T 21 |
| W22 | 11 58 14 | 1°28'22 | 4 Ω 2 | 9°53 | 12°13 | 2°22 | 13°13 | 18°12 | 11°22 | 19°55 | 10° 9 | 27°55 | 29°16 | 21° 3 | 12°27 | W22 |
| T 23 | 12 2 10 | 2°27'42 | 16° 5 | 11°27 | 13°28 | 2°29 | 13°28 | 18°15 | 11°26 | 19°56 | 10° 9 | 27°51 | 29°13 | 21°10 | 12°31 | T 23 |
| F 24 | 12 6 7 | 3°27'00 | 28° 0 | 13° 2 | 14°42 | 2°36 | 13°42 | 18°19 | 11°29 | 19°58 | 10°D 9 | 27°47 | 29° 9 | 21°16 | 12°34 | F 24 |
| S 25 | 12 10 3 | 4°26'16 | 9 m 52 | 14°39 | 15°57 | 2°45 | 13°56 | 18°23 | 11°33 | 20° 0 | 10° 9 | 27°43 | 29° 6 | 21°23 | 12°38 | S 25 |
| S 26 | 12 14 0 | 5°25'30 | 21°41 | 16°17 | 17°11 | 2°53 | 14°11 | 18°27 | 11°36 | 20° 2 | 10° 9 | 27°39 | 29° 3 | 21°30 | 12°42 | S 26 |
| M27 | 12 17 57 | 6°24'42 | 3 ≏ 31 | 17°56 | 18°25 | 3° 3 | 14°25 | 18°31 | 11°39 | 20° 3 | 10° 9 | 27°37 | 29° 0 | 21°36 | 12°45 | M27 |
| T 28 | 12 21 53 | 7°23'51 | 15°23 | 19°37 | 19°39 | 3°13 | 14°40 | 18°35 | 11°43 | 20° 5 | 10°10 | 27°35 | 28°57 | 21°43 | 12°49 | T 28 |
| W29 | 12 25 50 | 8°22'59 | 27°19 | 21°19 | 20°54 | 3°23 | 14°54 | 18°39 | 11°46 | 20° 7 | 10°10 | 27°D35 | 28°54 | 21°50 | 12°53 | W29 |
| T 30 | 12 29 46 | 9°22'04 | 9 m 22 | 23° 3 | 22° 8 | 3°34 | 15° 8 | 18°43 | 11°50 | 20° 8 | 10°10 | 27°35 | 28°50 | 21°56 | 12°56 | T 30 |
| F 31 | 12 33 43 | 10 Y 21'08 | 21 M 34 | 24) 48 | 23 Y 22 | 3 Ω 46 | 15 Y 23 | 18 Ⅱ 48 | 11 Y 53 | 20≈10 | 109510 | 27 ≏ 36 | 28 ≏ 47 | 22 Mp 3 | 13 ° 0 | F 31 |

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|------|----------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-------|----------------|----------------|----------------|----------------|------|
| S 1 | 12 37 39 | 11 Y 20'10 | 3 , ₹57 | 26) 35 | 24 Y 36 | 3 N 58 | 15 Ƴ 37 | 18 Ⅱ 52 | 11 Y 57 | 20≈12 | 10910 | 27 ≏ 38 | 28 ≏ 44 | 22 Mp 10 | 13 ° 4 | S 1 |
| S 2 | 12 41 36 | 12°19'10 | 16°35 | 28°23 | 25°50 | 4°10 | 15°52 | 18°57 | 12° 0 | 20°13 | 10°10 | 27°39 | 28°41 | 22°16 | 13° 8 | S 2 |
| M 3 | 12 45 32 | 13°18'09 | 29°30 | 0 Υ 12 | 27° 5 | 4°24 | 16° 6 | 19° 1 | 12° 3 | 20°15 | 10°11 | 27°40 | 28°38 | 22°23 | 13°11 | M 3 |
| T 4 | 12 49 29 | 14°17'05 | 12 る 46 | 2° 3 | 28°19 | 4°37 | 16°21 | 19° 6 | 12° 7 | 20°16 | 10°11 | 27°R40 | 28°35 | 22°30 | 13°15 | T 4 |
| W 5 | 12 53 26 | 15°16'00 | 26°26 | 3°56 | 29°33 | 4°51 | 16°35 | 19°11 | 12°10 | 20°18 | 10°11 | 27°40 | 28°31 | 22°36 | 13°19 | W 5 |
| T 6 | 12 57 22 | 16°14'53 | 10≈28 | 5°50 | 0 8 47 | 5° 6 | 16°50 | 19°16 | 12°14 | 20°19 | 10°11 | 27°39 | 28°28 | 22°43 | 13°22 | T 6 |
| F 7 | 13 1 19 | 17°13'45 | 24°54 | 7°45 | 2° 1 | 5°21 | 17° 4 | 19°21 | 12°17 | 20°21 | 10°12 | 27°38 | 28°25 | 22°50 | 13°26 | F 7 |
| S 8 | 13 5 15 | 18°12'34 | 9) (39 | 9°42 | 3°15 | 5°37 | 17°19 | 19°26 | 12°21 | 20°22 | 10°12 | 27°37 | 28°22 | 22°56 | 13°30 | S 8 |
| S 9 | 13 9 12 | 19°11'22 | 24°39 | 11°40 | 4°29 | 5°53 | 17°33 | 19°31 | 12°24 | 20°24 | 10°12 | 27°36 | 28°19 | 23° 3 | 13°33 | S 9 |
| M10 | 13 13 8 | 20°10'08 | 9 Υ 44 | 13°40 | 5°43 | 6° 9 | 17°47 | 19°36 | 12°27 | 20°25 | 10°13 | 27°35 | 28°15 | 23°10 | 13°37 | M10 |
| T 11 | 13 17 5 | 21° 8'52 | 24°46 | 15°41 | 6°57 | 6°26 | 18° 2 | 19°41 | 12°31 | 20°26 | 10°13 | 27°D35 | 28°12 | 23°16 | 13°41 | T 11 |
| W12 | 13 21 1 | 22° 7'34 | 9 8 36 | 17°43 | 8°10 | 6°43 | 18°16 | 19°46 | 12°34 | 20°28 | 10°14 | 27°35 | 28° 9 | 23°23 | 13°44 | W12 |
| T 13 | 13 24 58 | 23° 6'14 | 24° 7 | 19°47 | 9°24 | 7° 1 | 18°31 | 19°52 | 12°38 | 20°29 | 10°14 | 27°35 | 28° 6 | 23°30 | 13°48 | T 13 |
| F 14 | 13 28 54 | 24° 4'52 | 8Д15 | 21°52 | 10°38 | 7°19 | 18°45 | 19°57 | 12°41 | 20°30 | 10°15 | 27°36 | 28° 3 | 23°36 | 13°52 | F 14 |
| S 15 | 13 32 51 | 25° 3'28 | 21°57 | 23°58 | 11°52 | 7°37 | 19° 0 | 20° 3 | 12°44 | 20°31 | 10°15 | 27°36 | 28° 0 | 23°43 | 13°55 | S 15 |
| S 16 | 13 36 48 | 26° 2'01 | 59512 | 26° 4 | 13° 6 | 7°56 | 19°14 | 20° 8 | 12°48 | 20°33 | 10°16 | 27°36 | 27°56 | 23°50 | 13°59 | S 16 |
| M17 | 13 40 44 | 27° 0'33 | 18° 3 | 28°12 | 14°19 | 8°16 | 19°28 | 20°14 | 12°51 | 20°34 | 10°16 | 27°36 | 27°53 | 23°56 | 14° 3 | M17 |
| T 18 | 13 44 41 | 27°59'02 | 0 Ω 34 | 0820 | 15°33 | 8°35 | 19°43 | 20°20 | 12°55 | 20°35 | 10°17 | 27°36 | 27°50 | 24° 3 | 14° 6 | T 18 |
| W19 | 13 48 37 | 28°57'29 | 12°47 | 2°28 | 16°47 | 8°55 | 19°57 | 20°26 | 12°58 | 20°36 | 10°17 | 27°36 | 27°47 | 24°10 | 14°10 | W19 |
| T 20 | 13 52 34 | 29°55'54 | 24°48 | 4°36 | 18° 1 | 9°16 | 20°12 | 20°32 | 13° 1 | 20°37 | 10°18 | 27°37 | 27°44 | 24°16 | 14°13 | T 20 |
| F 21 | 13 56 30 | 0 8 54'17 | 6 m 41 | 6°44 | 19°14 | 9°37 | 20°26 | 20°37 | 13° 4 | 20°38 | 10°19 | 27°37 | 27°40 | 24°23 | 14°17 | F 21 |
| S 22 | 14 0 27 | 1°52'37 | 18°30 | 8°52 | 20°28 | 9°58 | 20°40 | 20°43 | 13° 8 | 20°39 | 10°19 | 27°37 | 27°37 | 24°30 | 14°21 | S 22 |
| S 23 | 14 4 23 | 2°50'56 | 0 ჲ 19 | 10°58 | 21°41 | 10°19 | 20°55 | 20°50 | 13°11 | 20°40 | 10°20 | 27°38 | 27°34 | 24°36 | 14°24 | S 23 |
| M24 | 14 8 20 | 3°49'12 | 12°11 | 13° 4 | 22°55 | 10°41 | 21° 9 | 20°56 | 13°14 | 20°41 | 10°21 | 27°38 | 27°31 | 24°43 | 14°28 | M24 |
| T 25 | 14 12 17 | 4°47'27 | 24° 9 | 15° 8 | 24° 8 | 11° 3 | 21°23 | 21° 2 | 13°18 | 20°42 | 10°21 | 27°R39 | 27°28 | 24°50 | 14°31 | T 25 |
| W26 | 14 16 13 | 5°45'40 | 6 M 15 | 17°11 | 25°22 | 11°25 | 21°37 | 21° 8 | 13°21 | 20°43 | 10°22 | 27°39 | 27°25 | 24°56 | 14°35 | W26 |
| T 27 | 14 20 10 | 6°43'52 | 18°30 | 19°11 | 26°35 | 11°48 | 21°51 | 21°14 | 13°24 | 20°44 | 10°23 | 27°38 | 27°21 | 25° 3 | 14°38 | T 27 |
| F 28 | 14 24 6 | 7°42'01 | 0 才 57 | 21° 9 | 27°49 | 12°11 | 22° 6 | 21°21 | 13°27 | 20°45 | 10°24 | 27°37 | 27°18 | 25°10 | 14°42 | F 28 |
| S 29 | 14 28 3 | 8°40'09 | 13°37 | 23° 5 | 29° 2 | 12°34 | 22°20 | 21°27 | 13°30 | 20°46 | 10°25 | 27°36 | 27°15 | 25°16 | 14°45 | S 29 |
| S 30 | 14 31 59 | 9 8 38'16 | 26 ₮ 30 | 24 8 58 | 0 Ⅱ 15 | 12 N 57 | 22 Y 34 | 21耳34 | 13 Y 34 | 20≈46 | 10925 | 27 ≏ 34 | 27 ₽ 12 | 25 m 23 | 14 Y 49 | S 30 |

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| M 1 | 14 35 56 | 10836'21 | 9 ට 38 | 26 8 47 | 1Ⅱ29 | 13 Ω 21 | 22 Y 48 | 21 Ⅱ 40 | 13 Y 37 | 20≈47 | 109526 | 27°R33 | 27 ♀ 9 | 25 m /30 | 14 Y 52 | M 1 |
| T 2 | 14 39 52 | 11°34'24 | 23° 1 | 28°34 | 2°42 | 13°45 | 23° 2 | 21°47 | 13°40 | 20°48 | 10°27 | 27 ≙ 31 | 27° 6 | 25°36 | 14°55 | T 2 |
| W 3 | 14 43 49 | 12°32'26 | 6 ≈ 41 20°37 | 0 Ⅱ 18 | 3°55 5° 8 | 14°10 14°34 | 23°16 | 21°53 | 13°43 | 20°49 20°49 | 10°28 10°29 | 27°D31 | 27° 2 26°59 | 25°43 | 14°59 | W 3 T 4 |
| T 4 F 5 | 14 47 46 14 51 42 | 13°30'27 14°28'27 | 4) (48 | 1°58 3°34 | 6°21 | 14°54 14°59 | 23°30 23°44 | 22° 0 22° 7 | 13°46 13°49 | 20°49 20°50 | 10°29 10°30 | 27°31 27°31 | 26°59 26°56 | 25°50 25°56 | 15° 2 15° 5 | F 5 |
| S 6 | 14 51 42 | 15°26'25 | 19°14 | 5° 8 | 7°35 | 15°24 | 23°58 | 22°14 | 13°52 | 20°50 | 10°31 | 27°33 | 26°53 | 25° 3 | 15° 9 | S 6 |
| S 7 | 14 59 35 | 16°24'22 | 3Υ 50 | 6°37 | 8°48 | 15°49 | 24°12 | 22°21 | 13°55 | 20°51 | 10°32 | 27°34 | 26°50 | 26°10 | 15°12 | S 7 |
| M 8 | 15 3 32 | 17°22'17 | 18°32 | 8° 3 | 10° 1 | 16°15 | 24°26 | 22°27 | 13°58 | 20°52 | 10°33 | 27°35 | 26°46 | 26°16 | 15°15 | M 8 |
| T 9 | 15 7 28 | 18°20'11 | 3 8 14 | 9°24 | 11°14 | 16°41 | 24°40 | 22°34 | 14° 1 | 20°52 | 10°34 | 27°R35 | 26°43 | 26°23 | 15°19 | T 9 |
| W10 | 15 11 25 | 19°18'04 | 17°50 | 10°42 | 12°27 | 17° 7 | 24°53 | 22°41 | 14° 4 | 20°52 | 10°35 | 27°34 | 26°40 | 26°30 | 15°22 | W10 |
| T 11 | 15 15 21 | 20°15'55 | 2 Ⅱ 13 | 11°57 | 13°40 | 17°33 | 25° 7 | 22°48 | 14° 7 | 20°53 | 10°36 | 27°32 | 26°37 | 26°36 | 15°25 | T 11 |
| F 12 | 15 19 18 | 21°13'45 | 16°18 | 13° 7 | 14°53 | 18° 0 | 25°21 | 22°55 | 14°10 | 20°53 | 10°37 | 27°29 | 26°34 | 26°43 | 15°28 | F 12 |
| S 13 | 15 23 15 | 22°11'34 | 29°59 | 14°13 | 16° 6 | 18°27 | 25°35 | 23° 2 | 14°13 | 20°54 | 10°38 | 27°25 | 26°31 | 26°50 | 15°31 | S 13 |
| S 14 | 15 27 11 | 23° 9'20 | 139518 | 15°15 | 17°19 | 18°54 | 25°48 | 23°10 | 14°16 | 20°54 | 10°39 | 27°22 | 26°27 | 26°56 | 15°34 | S 14 |
| M15 | 15 31 8 | 24° 7'06 | 26°13 | 16°13 | 18°32 | 19°21 | 26° 2 | 23°17 | 14°19 | 20°54 | 10°40 | 27°18 | 26°24 | 27° 3 | 15°37 | M15 |
| T 16 | 15 35 4 | 25° 4'49 | 8 Ω 47 | 17° 7 | 19°44 | 19°48 | 26°15 | 23°24 | 14°22 | 20°55 | 10°41 | 27°16 | 26°21 | 27°10 | 15°40 | T 16 |
| W17 T 18 | 15 39 1 15 42 57 | 26° 2'31 27° 0'11 | 21° 2 3 m) 4 | 17°56 18°41 | 20°57 22°10 | 20°16 20°44 | 26°29 26°42 | 23°31 23°39 | 14°24 14°27 | 20°55 20°55 | 10°43 10°44 | 27°D15 27°15 | 26°18 26°15 | 27°16 27°23 | 15°43 15°46 | W17 T 18 |
| F 19 | 15 46 54 | 27°57'50 | 14°57 | 18 41 19°22 | 23°23 | 20 44 21°12 | 26°55 | 23°46 | 14°27 14°30 | 20°55 | 10°44 10°45 | 27°16 | 26°12 | 27°30 | 15°49 | F 19 |
| S 20 | 15 50 50 | 28°55'27 | 26°47 | 19°58 | 24°35 | 21°40 | 27° 9 | 23°53 | 14°32 | 20°55 | 10°46 | 27°18 | 26° 8 | 27°36 | 15°52 | S 20 |
| S 21 | 15 54 47 | 29°53'02 | 8 ≏ 37 | 20°29 | 25°48 | 22° 8 | 27°22 | 24° 1 | 14°35 | 20°55 | 10°47 | 27°19 | 26° 5 | 27°43 | 15°55 | S 21 |
| M22 | 15 58 44 | 0耳50′37 | 20°32 | 20°56 | 27° 1 | 22°37 | 27°35 | 24° 8 | 14°38 | 20°55 | 10°49 | 27°21 | 26° 2 | 27°50 | 15°58 | M22 |
| T 23 | 16 2 40 | 1°48'10 | 2 M .36 | 21°19 | 28°13 | 23° 6 | 27°48 | 24°15 | 14°40 | 20°55 | 10°50 | 27°R21 | 25°59 | 27°56 | 16° 1 | T 23 |
| W24 | 16 637 | 2°45'41 | 14°53 | 21°36 | 29°26 | 23°35 | 28° 1 | 24°23 | 14°43 | 20°R55 | 10°51 | 27°19 | 25°56 | 28° 3 | 16° 4 | W24 |
| T 25 | 16 10 33 | 3°43'12 | 27°23 | 21°49 | 0938 | 24° 4 | 28°15 | 24°30 | 14°45 | 20°55 | 10°52 | 27°16 | 25°52 | 28°10 | 16° 6 | T 25 |
| F 26 S 27 | 16 14 30 16 18 26 | 4°40'41 5°38'10 | 10 ∡ 8 23° 9 | 21°57 22°R 1 | 1°51 3° 3 | 24°33 25° 2 | 28°28 28°40 | 24°38 24°45 | 14°48 14°50 | 20°55 20°55 | 10°54 10°55 | 27°11 27° 6 | 25°49 25°46 | 28°16 28°23 | 16° 9 16°12 | F 26 S 27 |
| | | | | | | | | - | | | | | | | - | |
| S 28 | 16 22 23 | 6°35'37 | 6 궁 25 | 22° 0 | 4°15 | 25°32 | 28°53 | 24°53 | 14°53 | 20°55 | 10°56 | 26°59 | 25°43 | 28°30 | 16°14 | S 28 |
| M29 T 30 | 16 26 19 16 30 16 | 7°33'04 8°30'30 | 19°54 3 ≈ 34 | 21°54 21°45 | 5°28 6°40 | 26° 2 26°32 | 29° 6 29°19 | 25° 1 25° 8 | 14°55 14°58 | 20°55 20°55 | 10°57 10°59 | 26°53 26°48 | 25°40 25°37 | 28°36 28°43 | 16°17 16°20 | M29 T 30 |
| W31 | 16 34 13 | 9 Ⅱ 27'55 | 3≈34 17≈25 | 21 1 31 | 7 9 52 | $26^{\circ}32$ 27Ω 2 | 29°19 29 ° 31 | 25 I 16 | 14°58 | 20°55 20 ≈ 55 | 10-39 | 26°48 26 Ω 44 | 25 \Omega 33 | 28°43 28 m 50 | 16°20 | W31 |
| VV.5 1 | 10 57 15 | 7112133 | 11~23 | 21 11 31 | 1-302 | 2/06 2 | 27 J1 | 23110 | 131 0 | 20~33 | 11-3-0 | 20—74 | 23-33 | 20 ng 30 | 10 22 | 17.51 |

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| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | P | v | Ω | Ç | Š | Day |
|------|----------|-------------------|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|--------|--------|----------------|----------------|--------------|----------------|------|
| T 1 | 16 38 9 | 10 Ⅲ 25'19 | 1) (24 | 21°R13 | 9 9 5 | 27 Ω 32 | 29 Y 44 | 25 Ⅱ 23 | 15 Y 2 | 20°R54 | 1199 1 | 26°R42 | 25 ♀ 30 | 28Mp56 | 16 Y 25 | T 1 |
| F 2 | 16 42 6 | 11°22'43 | 15°31 | 20∏52 | 10°17 | 28° 2 | 29°57 | 25°31 | 15° 4 | 20≈54 | 11° 3 | 26°D42 | 25°27 | 29° 3 | 16°27 | F 2 |
| S 3 | 16 46 2 | 12°20'06 | 29°43 | 20°27 | 11°29 | 28°33 | 0 8 9 | 25°39 | 15° 7 | 20°54 | 11° 4 | 26 ≏ 43 | 25°24 | 29°10 | 16°30 | S 3 |
| S 4 | 16 49 59 | 13°17'29 | 13 Y 59 | 20° 0 | 12°41 | 29° 4 | 0°21 | 25°47 | 15° 9 | 20°53 | 11° 6 | 26°44 | 25°21 | 29°16 | 16°32 | S 4 |
| M 5 | 16 53 55 | 14°14'51 | 28°17 | 19°30 | 13°53 | 29°35 | 0°34 | 25°54 | 15°11 | 20°53 | 11° 7 | 26°R44 | 25°18 | 29°23 | 16°34 | M 5 |
| T 6 | 16 57 52 | 15°12'12 | 12 8 33 | 18°59 | 15° 5 | 0 ™ 6 | 0°46 | 26° 2 | 15°13 | 20°53 | 11° 8 | 26°43 | 25°14 | 29°30 | 16°37 | T 6 |
| W 7 | 17 148 | 16° 9'33 | 26°45 | 18°26 | 16°17 | 0°37 | 0°58 | 26°10 | 15°15 | 20°52 | 11°10 | 26°40 | 25°11 | 29°36 | 16°39 | W 7 |
| T 8 | 17 5 45 | 17° 6'54 | 10 Ⅱ 47 | 17°53 | 17°29 | 1°8 | 1°10 | 26°18 | 15°17 | 20°52 | 11°11 | 26°35 | 25° 8 | 29°43 | 16°41 | T 8 |
| F 9 | 17 9 42 | 18° 4'14 | 24°36 | 17°19 | 18°41 | 1°40 | 1°22 | 26°25 | 15°19 | 20°51 | 11°13 | 26°27 | 25° 5 | 29°49 | 16°43 | F 9 |
| S 10 | 17 13 38 | 19° 1'33 | 8 9 8 | 16°45 | 19°53 | 2°11 | 1°34 | 26°33 | 15°21 | 20°51 | 11°14 | 26°19 | 25° 2 | 29°56 | 16°45 | S 10 |
| S 11 | 17 17 35 | 19°58'52 | 21°21 | 16°13 | 21° 4 | 2°43 | 1°46 | 26°41 | 15°23 | 20°50 | 11°16 | 26°10 | 24°58 | 0 ॒ 3 | 16°47 | S 11 |
| M12 | 17 21 31 | 20°56'09 | 4 Ω 13 | 15°42 | 22°16 | 3°15 | 1°58 | 26°49 | 15°25 | 20°50 | 11°17 | 26° 1 | 24°55 | 0° 9 | 16°49 | M12 |
| T 13 | 17 25 28 | 21°53'26 | 16°45 | 15°13 | 23°28 | 3°47 | 2° 9 | 26°57 | 15°27 | 20°49 | 11°18 | 25°54 | 24°52 | 0°16 | 16°51 | T 13 |
| W14 | 17 29 24 | 22°50'42 | 29° 0 | 14°47 | 24°40 | 4°19 | 2°21 | 27° 4 | 15°28 | 20°48 | 11°20 | 25°49 | 24°49 | 0°23 | 16°53 | W14 |
| T 15 | 17 33 21 | 23°47'58 | 11 Mp 2 | 14°24 | 25°51 | 4°51 | 2°33 | 27°12 | 15°30 | 20°48 | 11°21 | 25°47 | 24°46 | 0°29 | 16°55 | T 15 |
| F 16 | 17 37 17 | 24°45'12 | 22°56 | 14° 4 | 27° 3 | 5°24 | 2°44 | 27°20 | 15°32 | 20°47 | 11°23 | 25°D46 | 24°43 | 0°36 | 16°57 | F 16 |
| S 17 | 17 41 14 | 25°42'26 | 4 Ω 45 | 13°47 | 28°14 | 5°56 | 2°55 | 27°28 | 15°33 | 20°46 | 11°24 | 25°46 | 24°39 | 0°43 | 16°59 | S 17 |
| S 18 | 17 45 11 | 26°39'40 | 16°36 | 13°35 | 29°26 | 6°29 | 3° 7 | 27°36 | 15°35 | 20°45 | 11°26 | 25°47 | 24°36 | 0°49 | 17° 1 | S 18 |
| M19 | 17 49 7 | 27°36'52 | 28°33 | 13°27 | 0 Ω 37 | 7° 2 | 3°18 | 27°44 | 15°37 | 20°45 | 11°27 | 25°R47 | 24°33 | 0°56 | 17° 2 | M19 |
| T 20 | 17 53 4 | 28°34'05 | 10 M .42 | 13°D23 | 1°48 | 7°35 | 3°29 | 27°51 | 15°38 | 20°44 | 11°29 | 25°46 | 24°30 | 1° 3 | 17° 4 | T 20 |
| W21 | 17 57 0 | 29°31'16 | 23° 7 | 13°24 | 3° 0 | 8° 8 | 3°40 | 27°59 | 15°40 | 20°43 | 11°30 | 25°43 | 24°27 | 1° 9 | 17° 6 | W21 |
| T 22 | 18 0 57 | 09528'28 | 5 ₹ 50 | 13°30 | 4°11 | 8°41 | 3°50 | 28° 7 | 15°41 | 20°42 | 11°32 | 25°37 | 24°23 | 1°16 | 17° 7 | T 22 |
| F 23 | 18 4 53 | 1°25'39 | 18°53 | 13°41 | 5°22 | 9°14 | 4° 1 | 28°15 | 15°42 | 20°41 | 11°34 | 25°29 | 24°20 | 1°23 | 17° 9 | F 23 |
| S 24 | 18 8 50 | 2°22'49 | 2 궁 15 | 13°56 | 6°33 | 9°47 | 4°12 | 28°23 | 15°44 | 20°40 | 11°35 | 25°19 | 24°17 | 1°29 | 17°10 | S 24 |
| S 25 | 18 12 46 | 3°20'00 | 15°56 | 14°16 | 7°44 | 10°21 | 4°22 | 28°30 | 15°45 | 20°39 | 11°37 | 25° 9 | 24°14 | 1°36 | 17°12 | S 25 |
| M26 | 18 16 43 | 4°17'10 | 29°51 | 14°41 | 8°55 | 10°54 | 4°33 | 28°38 | 15°46 | 20°38 | 11°38 | 24°58 | 24°11 | 1°43 | 17°13 | M26 |
| T 27 | 18 20 40 | 5°14'21 | 13 ≈ 56 | 15°11 | 10° 6 | 11°28 | 4°43 | 28°46 | 15°48 | 20°37 | 11°40 | 24°49 | 24° 8 | 1°49 | 17°14 | T 27 |
| W28 | 18 24 36 | 6°11'31 | 28° 7 | 15°46 | 11°17 | 12° 2 | 4°53 | 28°54 | 15°49 | 20°36 | 11°41 | 24°42 | 24° 4 | 1°56 | 17°16 | W28 |
| T 29 | 18 28 33 | 7° 8'42 | 12) 20 | 16°25 | 12°28 | 12°36 | 5° 4 | 29° 2 | 15°50 | 20°35 | 11°43 | 24°38 | 24° 1 | 2° 3 | 17°17 | T 29 |
| F 30 | 18 32 29 | 8 9 5'53 | 26) 32 | 17 I 9 | 13 N 38 | 13 Mp 10 | 5 8 14 | 29Ⅱ 9 | 15 Ƴ 51 | 20≈34 | 119544 | 24 <u>₽</u> 36 | 23 ≏ 58 | 2 ₾ 9 | 17 Y 18 | F 30 |

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| | | 99 3'04 | 10 Y 41 | 17 II 58 | 14 Ω 49 | 13 m 44 | 5 8 24 | 29 Ⅱ 17 | 15 Y 52 | 20°R33 | 119546 | 24°D35 | 23 £ 55 | 2 ₽ 16 | 17 Y 19 | S 1 |
| S 2 | 18 40 22 | 10° 0'16 | 24°46 | 18°52 | 16° 0 | 14°18 | 5°33 | 29°25 | 15°53 | 20≈32 | 11°47 | 24°R36 | 23°52 | 2°23 | 17°20 | S 2 |
| M 3 | 18 44 19 | 10°57'28 | 8 8 46 | 19°50 | 17°10 | 14°52 | 5°43 | 29°33 | 15°54 | 20°31 | 11°49 | 24 Ω 35 | 23°49 | 2°29 | 17°21 | M 3 |
| T 4 | 18 48 15 | 11°54'40 | 22°40 | 20°52 | 18°21 | 15°27 | 5°53 | 29°40 | 15°55 | 20°30 | 11°50 | 24°33 | 23°45 | 2°36 | 17°22 | T 4 |
| | 18 52 12 | 12°51'53 | 6 II 26 | 21°59 | 19°31 | 16° 1 | 6° 2 | 29°48 | 15°56 | 20°28 | 11°52 | 24°28 | 23°42 | 2°43 | 17°23 | W 5 |
| | 18 56 9 | 13°49'06 | 20° 4 | 23°10 | 20°41 | 16°36 | 6°11 | 29°56 | 15°56 | 20°27 | 11°54 | 24°20 | 23°39 | 2°49 | 17°24 | T 6 |
| | 19 0 5 | 14°46'20 | 3931 | 24°26 | 21°52 | 17°11 | 6°20 | 0ණ 4 | 15°57 | 20°26 | 11°55 | 24° 9 | 23°36 | 2°56 | 17°25 | F 7 |
| S 8 | 19 4 2 | 15°43'34 | 16°44 | 25°45 | 23° 2 | 17°46 | 6°30 | 0°11 | 15°58 | 20°25 | 11°57 | 23°57 | 23°33 | 3° 3 | 17°25 | S 8 |
| ~ / | 19 7 58 | 16°40'48 | 29°42 | 27° 9 | 24°12 | 18°21 | 6°38 | 0°19 | 15°58 | 20°23 | 11°58 | 23°45 | 23°29 | 3° 9 | 17°26 | S 9 |
| | 19 11 55 | 17°38'02 | $12\Omega_{24}$ | 28°37 | 25°22 | 18°56 | 6°47 | 0°27 | 15°59 | 20°22 | 12° 0 | 23°33 | 23°26 | 3°16 | 17°27 | M10 |
| T 11 | 19 15 51 | 18°35'17 | 24°49 | 0න 9 | 26°32 | 19°31 | 6°56 | 0°34 | 16° 0 | 20°21 | 12° 1 | 23°22 | 23°23 | 3°23 | 17°27 | T 11 |
| | 19 19 48 | 19°32'32 | 7Mp 0 | 1°45 | 27°42 | 20° 6 | 7° 5 | 0°42 | 16° 0 | 20°19 | 12° 3 | 23°14 | 23°20 | 3°29 | 17°28 | W12 |
| - | 19 23 44 | 20°29'47 | 19° 0 | 3°25 | 28°52 | 20°41 | 7°13 | 0°49 | 16° 0 | 20°18 | 12° 4 | 23° 9 | 23°17 | 3°36 | 17°28 | T 13 |
| | 19 27 41 | 21°27'02 | 0 ჲ 51 | 5° 8 | 0Mp 2 | 21°17 | 7°21 | 0°57 | 16° 1 | 20°17 | 12° 6 | 23° 6 | 23°14 | 3°42 | 17°29 | F 14 |
| S 15 | 19 31 38 | 22°24'17 | 12°39 | 6°54 | 1°11 | 21°52 | 7°29 | 1° 4 | 16° 1 | 20°15 | 12° 7 | 23° 5 | 23°10 | 3°49 | 17°29 | S 15 |
| | 19 35 34 | 23°21'33 | 24°30 | 8°44 | 2°21 | 22°28 | 7°37 | 1°12 | 16° 2 | 20°14 | 12° 9 | 23° 5 | 23° 7 | 3°56 | 17°29 | S 16 |
| | 19 39 31 | 24°18'49 | 6 M 27 | 10°37 | 3°30 | 23° 4 | 7°45 | 1°19 | 16° 2 | 20°12 | 12°10 | 23° 4 | 23° 4 | 4° 2 | 17°30 | M17 |
| - | 19 43 27 | 25°16'05 | 18°38 | 12°32 | 4°40 | 23°40 | 7°53 | 1°27 | 16° 2 | 20°11 | 12°12 | 23° 3 | 23° 1 | 4° 9 | 17°30 | T 18 |
| | 19 47 24 | 26°13'22 | 1 √ 6 | 14°30 | 5°49 | 24°16 | 8° 1 | 1°34 | 16° 2 | 20°10 | 12°14 | 23° 0 | 22°58 | 4°16 | 17°30 | W19 |
| _ | 19 51 20 | 27°10'39 | 13°56 | 16°30 | 6°58 | 24°52 | 8° 8 | 1°41 | 16° 2 | 20° 8 | 12°15 | 22°54 | 22°55 | 4°22 | 17°30 | T 20 |
| | 19 55 17 | 28° 7'56 | 27°10 | 18°32 | 8° 7 | 25°28 | 8°15 | 1°49 | 16° 2 | 20° 7 | 12°17 | 22°45 | 22°51 | 4°29 | 17°R30 | F 21 |
| S 22 | 19 59 13 | 29° 5'14 | 10 궁 48 | 20°36 | 9°16 | 26° 4 | 8°23 | 1°56 | 16°R 2 | 20° 5 | 12°18 | 22°35 | 22°48 | 4°36 | 17°30 | S 22 |
| | 20 3 10 | O ん 2'33 | 24°49 | 22°40 | 10°25 | 26°40 | 8°30 | 2° 3 | 16° 2 | 20° 4 | 12°20 | 22°24 | 22°45 | 4°42 | 17°30 | S 23 |
| | 20 7 7 | 0°59'52 | 9≈ 8 | 24°46 | 11°34 | 27°17 | 8°36 | 2°10 | 16° 2 | 20° 2 | 12°21 | 22°12 | 22°42 | 4°49 | 17°30 | M24 |
| - | 20 11 3 | 1°57'13 | 23°38 | 26°52 | 12°43 | 27°53 | 8°43 | 2°18 | 16° 2 | 20° 1 | 12°22 | 22° 2 | 22°39 | 4°56 | 17°30 | T 25 |
| | 20 15 0 | 2°54'34 | 8 ∺ 14 | 28°58 | 13°51 | 28°29 | 8°50 | 2°25 | 16° 2 | 19°59 | 12°24 | 21°55 | 22°35 | 5° 2 | 17°29 | W26 |
| | 20 18 56 | 3°51'56 | 22°49 | 1 Ω 4 | 15° 0 | 29° 6 | 8°56 | 2°32 | 16° 2 | 19°58 | 12°25 | 21°50 | 22°32 | 5° 9 | 17°29 | T 27 |
| - | 20 22 53 | 4°49'19 | 7 Υ 16 | 3° 9 | 16° 8 | 29°43 | 9° 2 | 2°39 | 16° 1 | 19°56 | 12°27 | 21°47 | 22°29 | 5°16 | 17°29 | F 28 |
| S 29 | 20 26 49 | 5°46'43 | 21°34 | 5°15 | 17°16 | 0 ჲ 20 | 9° 8 | 2°46 | 16° 1 | 19°54 | 12°28 | 21°D47 | 22°26 | 5°22 | 17°28 | S 29 |
| S 30 | 20 30 46 | 6°44'09 | 5 8 39 | 7°19 | 18°25 | 0°56 | 9°14 | 2°53 | 16° 1 | 19°53 | 12°30 | 21°R47 | 22°23 | 5°29 | 17°28 | S 30 |
| M31 | 20 34 42 | 7 Ω 41'36 | 19831 | $9\Omega 23$ | 19 10 33 | 1 ≏ 33 | 9 8 20 | 399 0 | 16 Y 0 | 19≈51 | 12931 | 21 ≏ 47 | 22 £ 20 | 5 ≏ 36 | 17 Y 28 | M31 |

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|------|----------|------------------|---------------|----------------|-----------------|----------------|--------|-------|----------------|----------------|--------|----------------|----------------|---------------|----------------|------|
| T 1 | 20 38 39 | 8 N 39'04 | 3 I I1 | 11 Ω 25 | 20 m /41 | 2 ₽ 10 | 9826 | 399 7 | 16°R 0 | 19°R50 | 12933 | 21°R44 | 22 ₾ 16 | 5 ≏ 42 | 17°R27 | T 1 |
| W 2 | 20 42 36 | 9°36'34 | 16°39 | 13°27 | 21°48 | 2°48 | 9°31 | 3°14 | 15 Y 59 | 19 ≈ 48 | 12°34 | 21 ≏ 40 | 22°13 | 5°49 | 17 Y 26 | W 2 |
| T 3 | 20 46 32 | 10°34'05 | 29°55 | 15°27 | 22°56 | 3°25 | 9°36 | 3°20 | 15°59 | 19°46 | 12°35 | 21°33 | 22°10 | 5°56 | 17°26 | T 3 |
| F 4 | 20 50 29 | 11°31'37 | 1399 0 | 17°25 | 24° 4 | 4° 2 | 9°41 | 3°27 | 15°58 | 19°45 | 12°37 | 21°23 | 22° 7 | 6° 2 | 17°25 | F 4 |
| S 5 | 20 54 25 | 12°29'10 | 25°52 | 19°23 | 25°11 | 4°40 | 9°46 | 3°34 | 15°57 | 19°43 | 12°38 | 21°12 | 22° 4 | 6° 9 | 17°24 | S 5 |
| S 6 | 20 58 22 | 13°26'45 | 8 Ω 31 | 21°19 | 26°18 | 5°17 | 9°51 | 3°41 | 15°57 | 19°42 | 12°40 | 21° 0 | 22° 1 | 6°15 | 17°23 | S 6 |
| M 7 | 21 2 18 | 14°24'21 | 20°58 | 23°13 | 27°26 | 5°55 | 9°56 | 3°47 | 15°56 | 19°40 | 12°41 | 20°49 | 21°57 | 6°22 | 17°22 | M 7 |
| T 8 | 21 6 15 | 15°21'58 | 3 m 13 | 25° 6 | 28°33 | 6°32 | 10° 0 | 3°54 | 15°55 | 19°38 | 12°42 | 20°39 | 21°54 | 6°29 | 17°22 | T 8 |
| W 9 | 21 10 11 | 16°19'35 | 15°16 | 26°58 | 29°40 | 7°10 | 10° 4 | 4° 0 | 15°54 | 19°37 | 12°44 | 20°31 | 21°51 | 6°35 | 17°21 | W 9 |
| T 10 | 21 14 8 | 17°17'14 | 27°11 | 28°48 | 0 ჲ 46 | 7°48 | 10° 8 | 4° 7 | 15°53 | 19°35 | 12°45 | 20°26 | 21°48 | 6°42 | 17°20 | T 10 |
| F 11 | 21 18 5 | 18°14'55 | 9 ල 0 | 0 m ,37 | 1°53 | 8°26 | 10°12 | 4°13 | 15°52 | 19°33 | 12°46 | 20°23 | 21°45 | 6°49 | 17°18 | F 11 |
| S 12 | 21 22 1 | 19°12'36 | 20°46 | 2°24 | 2°59 | 9° 4 | 10°16 | 4°20 | 15°51 | 19°32 | 12°47 | 20°D22 | 21°41 | 6°55 | 17°17 | S 12 |
| S 13 | 21 25 58 | 20°10'18 | 2 M 35 | 4°10 | 4° 6 | 9°42 | 10°19 | 4°26 | 15°50 | 19°30 | 12°49 | 20°23 | 21°38 | 7° 2 | 17°16 | S 13 |
| M14 | 21 29 54 | 21° 8'02 | 14°32 | 5°54 | 5°12 | 10°20 | 10°22 | 4°32 | 15°49 | 19°29 | 12°50 | 20°24 | 21°35 | 7° 9 | 17°15 | M14 |
| T 15 | 21 33 51 | 22° 5'46 | 26°41 | 7°37 | 6°18 | 10°58 | 10°25 | 4°38 | 15°48 | 19°27 | 12°51 | 20°R24 | 21°32 | 7°15 | 17°14 | T 15 |
| W16 | 21 37 47 | 23° 3'32 | 9 ,₹ 8 | 9°18 | 7°24 | 11°37 | 10°28 | 4°44 | 15°47 | 19°25 | 12°53 | 20°22 | 21°29 | 7°22 | 17°12 | W16 |
| T 17 | 21 41 44 | 24° 1'19 | 21°58 | 10°59 | 8°29 | 12°15 | 10°31 | 4°50 | 15°46 | 19°24 | 12°54 | 20°19 | 21°26 | 7°29 | 17°11 | T 17 |
| F 18 | 21 45 40 | 24°59'07 | 5 る 14 | 12°37 | 9°35 | 12°53 | 10°34 | 4°56 | 15°45 | 19°22 | 12°55 | 20°14 | 21°22 | 7°35 | 17° 9 | F 18 |
| S 19 | 21 49 37 | 25°56'56 | 18°57 | 14°15 | 10°40 | 13°32 | 10°36 | 5° 2 | 15°43 | 19°20 | 12°56 | 20° 6 | 21°19 | 7°42 | 17° 8 | S 19 |
| S 20 | 21 53 34 | 26°54'47 | 3≈ 8 | 15°50 | 11°45 | 14°11 | 10°38 | 5° 8 | 15°42 | 19°19 | 12°57 | 19°58 | 21°16 | 7°49 | 17° 6 | S 20 |
| M21 | 21 57 30 | 27°52'39 | 17°41 | 17°25 | 12°50 | 14°49 | 10°40 | 5°14 | 15°41 | 19°17 | 12°59 | 19°50 | 21°13 | 7°55 | 17° 5 | M21 |
| T 22 | 22 1 27 | 28°50'32 | 2) 31 | 18°58 | 13°55 | 15°28 | 10°42 | 5°20 | 15°39 | 19°16 | 13° 0 | 19°43 | 21°10 | 8° 2 | 17° 3 | T 22 |
| W23 | 22 5 23 | 29°48'27 | 17°29 | 20°30 | 14°59 | 16° 7 | 10°43 | 5°25 | 15°38 | 19°14 | 13° 1 | 19°37 | 21° 7 | 8° 9 | 17° 2 | W23 |
| T 24 | 22 9 20 | 0 Mp 46'24 | 2 Υ 26 | 22° 1 | 16° 3 | 16°46 | 10°45 | 5°31 | 15°36 | 19°12 | 13° 2 | 19°34 | 21° 3 | 8°15 | 17° 0 | T 24 |
| F 25 | 22 13 16 | 1°44'22 | 17°14 | 23°30 | 17° 7 | 17°25 | 10°46 | 5°36 | 15°35 | 19°11 | 13° 3 | 19°D33 | 21° 0 | 8°22 | 16°58 | F 25 |
| S 26 | 22 17 13 | 2°42'23 | 1848 | 24°58 | 18°11 | 18° 4 | 10°47 | 5°42 | 15°33 | 19° 9 | 13° 4 | 19°33 | 20°57 | 8°28 | 16°56 | S 26 |
| S 27 | 22 21 9 | 3°40'25 | 16° 4 | 26°24 | 19°15 | 18°43 | 10°48 | 5°47 | 15°32 | 19°8 | 13° 5 | 19°35 | 20°54 | 8°35 | 16°54 | S 27 |
| M28 | 22 25 6 | 4°38'29 | 0 Ⅱ 1 | 27°49 | 20°18 | 19°22 | 10°48 | 5°53 | 15°30 | 19° 6 | 13° 6 | 19°R35 | 20°51 | 8°42 | 16°53 | M28 |
| T 29 | 22 29 3 | 5°36'35 | 13°37 | 29°12 | 21°21 | 20° 2 | 10°49 | 5°58 | 15°28 | 19° 4 | 13° 7 | 19°35 | 20°47 | 8°48 | 16°51 | T 29 |
| W30 | 22 32 59 | 6°34'44 | 26°56 | 0 ჲ 35 | 22°24 | 20°41 | 10°R49 | 6° 3 | 15°26 | 19° 3 | 13° 8 | 19°33 | 20°44 | 8°55 | 16°49 | W30 |
| T 31 | 22 36 56 | 7 m 32'54 | 9958 | 1 ≏ 55 | 23 ₾ 27 | 21 ≏ 20 | 10849 | 69 8 | 15 Y 25 | 19 ≈ 1 | 1399 9 | 19 ₾ 30 | 20 ≏ 41 | 9 요 2 | 16 Ƴ 47 | T 31 |
| | | | | | | | | | | | | | | | | |

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| Day | Sid.t | 0 | D | ğ | Q. | ♂ | 4 | ħ |) f (| ¥ | В | u | v | ţ | , k | Day |
|------|----------|------------------|-----------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|--------|----------------|----------------|----------------|----------------|------|
| F 1 | 22 40 52 | 8 Mp 31'06 | 229345 | 3 ≏ 14 | 24 Ω 29 | 22 <u>₽</u> 0 | 10°R49 | 69913 | 15°R23 | 19°R 0 | 139510 | 19°R24 | 20 ≏ 38 | 9 亞 8 | 16°R45 | F 1 |
| S 2 | 22 44 49 | 9°29'20 | 5 Ω 19 | 4°32 | 25°31 | 22°40 | 10848 | 6°18 | 15 Y 21 | 18 ≈ 58 | 13°11 | 19 ≏ 18 | 20°35 | 9°15 | 16 Y 43 | S 2 |
| S 3 | 22 48 45 | 10°27'36 | 17°42 | 5°48 | 26°33 | 23°19 | 10°48 | 6°23 | 15°19 | 18°57 | 13°12 | 19°10 | 20°32 | 9°22 | 16°40 | S 3 |
| M 4 | 22 52 42 | 11°25'54 | 29°54 | 7° 2 | 27°35 | 23°59 | 10°47 | 6°28 | 15°17 | 18°55 | 13°13 | 19° 4 | 20°28 | 9°28 | 16°38 | M 4 |
| T 5 | 22 56 38 | 12°24'14 | 11 m)57 | 8°15 | 28°36 | 24°39 | 10°46 | 6°32 | 15°16 | 18°54 | 13°14 | 18°58 | 20°25 | 9°35 | 16°36 | T 5 |
| W 6 | 23 0 35 | 13°22'35 | 23°53 | 9°25 | 29°37 | 25°19 | 10°44 | 6°37 | 15°14 | 18°52 | 13°15 | 18°53 | 20°22 | 9°42 | 16°34 | W 6 |
| T 7 | 23 4 32 | 14°20'59 | 5 ≏ 42 | 10°34 | 0 M .38 | 25°59 | 10°43 | 6°41 | 15°12 | 18°51 | 13°16 | 18°51 | 20°19 | 9°48 | 16°32 | T 7 |
| F 8 | 23 8 28 | 15°19'24 | 17°29 | 11°41 | 1°38 | 26°39 | 10°41 | 6°46 | 15°10 | 18°49 | 13°17 | 18°D50 | 20°16 | 9°55 | 16°29 | F 8 |
| S 9 | 23 12 25 | 16°17'51 | 29°15 | 12°45 | 2°38 | 27°19 | 10°40 | 6°50 | 15° 8 | 18°48 | 13°17 | 18°50 | 20°12 | 10° 1 | 16°27 | S 9 |
| S 10 | 23 16 21 | 17°16'19 | 11 M 5 | 13°48 | 3°37 | 27°59 | 10°38 | 6°54 | 15° 6 | 18°47 | 13°18 | 18°52 | 20° 9 | 10° 8 | 16°25 | S 10 |
| M11 | 23 20 18 | 18°14'50 | 23° 1 | 14°47 | 4°37 | 28°40 | 10°35 | 6°58 | 15° 3 | 18°45 | 13°19 | 18°54 | 20° 6 | 10°15 | 16°22 | M11 |
| T 12 | 23 24 14 | 19°13'22 | 5 ₹ 10 | 15°45 | 5°36 | 29°20 | 10°33 | 7° 3 | 15° 1 | 18°44 | 13°20 | 18°55 | 20° 3 | 10°21 | 16°20 | T 12 |
| W13 | 23 28 11 | 20°11'55 | 17°35 | 16°39 | 6°34 | 0 M 1 | 10°30 | 7° 7 | 14°59 | 18°43 | 13°21 | 18°R56 | 20° 0 | 10°28 | 16°17 | W13 |
| T 14 | 23 32 7 | 21°10'31 | 0 궁 21 | 17°30 | 7°32 | 0°41 | 10°27 | 7°10 | 14°57 | 18°41 | 13°21 | 18°56 | 19°57 | 10°35 | 16°15 | T 14 |
| F 15 | 23 36 4 | 22° 9'08 | 13°32 | 18°19 | 8°30 | 1°22 | 10°24 | 7°14 | 14°55 | 18°40 | 13°22 | 18°54 | 19°53 | 10°41 | 16°12 | F 15 |
| S 16 | 23 40 0 | 23° 7'46 | 27°10 | 19° 3 | 9°27 | 2° 2 | 10°21 | 7°18 | 14°53 | 18°39 | 13°23 | 18°51 | 19°50 | 10°48 | 16°10 | S 16 |
| S 17 | 23 43 57 | 24° 6'27 | 11 ≈ 17 | 19°44 | 10°24 | 2°43 | 10°18 | 7°22 | 14°51 | 18°37 | 13°23 | 18°48 | 19°47 | 10°55 | 16° 7 | S 17 |
| M18 | 23 47 54 | 25° 5'09 | 25°50 | 20°21 | 11°20 | 3°24 | 10°14 | 7°25 | 14°48 | 18°36 | 13°24 | 18°45 | 19°44 | 11° 1 | 16° 5 | M18 |
| T 19 | 23 51 50 | 26° 3'53 | 10) 45 | 20°54 | 12°16 | 4° 5 | 10°11 | 7°29 | 14°46 | 18°35 | 13°24 | 18°42 | 19°41 | 11° 8 | 16° 2 | T 19 |
| W20 | 23 55 47 | 27° 2'38 | 25°53 | 21°21 | 13°12 | 4°46 | 10° 7 | 7°32 | 14°44 | 18°34 | 13°25 | 18°40 | 19°38 | 11°15 | 15°59 | W20 |
| T 21 | 23 59 43 | 28° 1'26 | 11 ° 5 | 21°44 | 14° 6 | 5°27 | 10° 2 | 7°35 | 14°41 | 18°33 | 13°26 | 18°39 | 19°34 | 11°21 | 15°57 | T 21 |
| F 22 | 0 3 40 | 29° 0'16 | 26°11 | 22° 1 | 15° 1 | 6° 8 | 9°58 | 7°38 | 14°39 | 18°31 | 13°26 | 18°D39 | 19°31 | 11°28 | 15°54 | F 22 |
| S 23 | 0 7 36 | 29°59'08 | 118 4 | 22°12 | 15°55 | 6°49 | 9°54 | 7°41 | 14°37 | 18°30 | 13°27 | 18°39 | 19°28 | 11°35 | 15°51 | S 23 |
| S 24 | 0 11 33 | 0₽58'02 | 25°36 | 22°R17 | 16°48 | 7°30 | 9°49 | 7°44 | 14°34 | 18°29 | 13°27 | 18°41 | 19°25 | 11°41 | 15°49 | S 24 |
| M25 | 0 15 29 | 1°56'59 | 9 Ⅱ 45 | 22°15 | 17°40 | 8°12 | 9°44 | 7°47 | 14°32 | 18°28 | 13°28 | 18°42 | 19°22 | 11°48 | 15°46 | M25 |
| T 26 | 0 19 26 | 2°55'58 | 23°28 | 22° 6 | 18°32 | 8°53 | 9°39 | 7°50 | 14°30 | 18°27 | 13°28 | 18°43 | 19°18 | 11°54 | 15°43 | T 26 |
| W27 | 0 23 23 | 3°54'59 | 6 9 48 | 21°50 | 19°24 | 9°35 | 9°34 | 7°52 | 14°27 | 18°26 | 13°29 | 18°R43 | 19°15 | 12° 1 | 15°40 | W27 |
| T 28 | 0 27 19 | 4°54'03 | 19°45 | 21°26 | 20°14 | 10°16 | 9°29 | 7°55 | 14°25 | 18°25 | 13°29 | 18°42 | 19°12 | 12° 8 | 15°38 | T 28 |
| F 29 | 0 31 16 | 5°53'09 | $2\Omega^{24}$ | 20°54 | 21° 4 | 10°58 | 9°23 | 7°57 | 14°23 | 18°24 | 13°29 | 18°41 | 19° 9 | 12°14 | 15°35 | F 29 |
| S 30 | 0 35 12 | 6 ≏ 52'17 | 14 Ω 47 | 20 ≏ 14 | 21 M 54 | 11 M 39 | 9 8 17 | 8 9 0 | 14 Y 20 | 18 ≈ 23 | 13930 | 18 ≏ 40 | 19 º 6 | 12 ≏ 21 | 15 Y 32 | S 30 |

Delta T = 23.85 sec Greg. Calendar

OCTOBER 1679 GC 00:00 UT

| Day | Sid.t | \odot | D | ğ | φ | ð | 4 | ħ |)f(| ¥ | Р | r | Ω | Ç | Š | Day |
|------|---------|-------------------|-----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|--------|----------------|----------------|----------------|----------------|------|
| S 1 | 0 39 9 | 7 ≏ 51'28 | 26 Ω 57 | 19°R27 | 22 M 42 | 12 M 21 | 9°R12 | 8 9 5 2 | 14°R18 | 18°R22 | 13930 | 18°R38 | 19 ₾ 3 | 12 ≏ 28 | 15°R29 | S 1 |
| M 2 | 0 43 5 | 8°50'41 | 8 m 58 | 18 ≏ 33 | 23°30 | 13° 3 | 9 8 6 | 8° 4 | 14 Y 15 | 18 ≈ 21 | 13°30 | 18 ≏ 37 | 18°59 | 12°34 | 15 Y 26 | M 2 |
| T 3 | 0 47 2 | 9°49'55 | 20°52 | 17°33 | 24°17 | 13°45 | 9° 0 | 8° 6 | 14°13 | 18°20 | 13°31 | 18°35 | 18°56 | 12°41 | 15°24 | T 3 |
| W 4 | 0 50 58 | 10°49'12 | 2 ≏ 41 | 16°27 | 25° 3 | 14°27 | 8°53 | 8° 8 | 14°11 | 18°19 | 13°31 | 18°35 | 18°53 | 12°48 | 15°21 | W 4 |
| T 5 | 0 54 55 | 11°48'31 | 14°28 | 15°18 | 25°48 | 15° 9 | 8°47 | 8°10 | 14° 8 | 18°19 | 13°31 | 18°D34 | 18°50 | 12°54 | 15°18 | T 5 |
| F 6 | 0 58 51 | 12°47'53 | 26°15 | 14° 7 | 26°33 | 15°51 | 8°40 | 8°11 | 14° 6 | 18°18 | 13°31 | 18°34 | 18°47 | 13° 1 | 15°15 | F 6 |
| S 7 | 1 2 48 | 13°47'16 | 8 M 5 | 12°55 | 27°16 | 16°33 | 8°34 | 8°13 | 14° 3 | 18°17 | 13°32 | 18°35 | 18°43 | 13° 8 | 15°12 | S 7 |
| S 8 | 1 6 45 | 14°46'41 | 19°59 | 11°45 | 27°58 | 17°16 | 8°27 | 8°14 | 14° 1 | 18°16 | 13°32 | 18°35 | 18°40 | 13°14 | 15° 9 | S 8 |
| M 9 | 1 10 41 | 15°46'08 | 2 √ 1 | 10°39 | 28°40 | 17°58 | 8°20 | 8°16 | 13°58 | 18°16 | 13°32 | 18°35 | 18°37 | 13°21 | 15° 7 | M 9 |
| T 10 | 1 14 38 | 16°45'37 | 14°14 | 9°39 | 29°20 | 18°40 | 8°13 | 8°17 | 13°56 | 18°15 | 13°32 | 18°36 | 18°34 | 13°27 | 15° 4 | T 10 |
| W11 | 1 18 34 | 17°45'08 | 26°40 | 8°47 | 29°59 | 19°23 | 8° 6 | 8°18 | 13°53 | 18°14 | 13°32 | 18°36 | 18°31 | 13°34 | 15° 1 | W11 |
| T 12 | 1 22 31 | 18°44'40 | 9 る 24 | 8° 3 | 0 ∡ 37 | 20° 5 | 7°58 | 8°19 | 13°51 | 18°14 | 13°32 | 18°R36 | 18°28 | 13°41 | 14°58 | T 12 |
| F 13 | 1 26 27 | 19°44'15 | 22°30 | 7°29 | 1°14 | 20°48 | 7°51 | 8°20 | 13°49 | 18°13 | 13°32 | 18°D36 | 18°24 | 13°47 | 14°55 | F 13 |
| S 14 | 1 30 24 | 20°43'51 | 5≈59 | 7° 6 | 1°50 | 21°31 | 7°44 | 8°21 | 13°46 | 18°13 | 13°R32 | 18°36 | 18°21 | 13°54 | 14°52 | S 14 |
| S 15 | 1 34 20 | 21°43'29 | 19°54 | 6°54 | 2°24 | 22°13 | 7°36 | 8°22 | 13°44 | 18°12 | 13°32 | 18°36 | 18°18 | 14° 1 | 14°50 | S 15 |
| M16 | 1 38 17 | 22°43'08 | 4) (14 | 6°D53 | 2°57 | 22°56 | 7°29 | 8°22 | 13°41 | 18°12 | 13°32 | 18°36 | 18°15 | 14° 7 | 14°47 | M16 |
| T 17 | 1 42 14 | 23°42'49 | 18°57 | 7° 4 | 3°28 | 23°39 | 7°21 | 8°23 | 13°39 | 18°11 | 13°32 | 18°37 | 18°12 | 14°14 | 14°44 | T 17 |
| W18 | 1 46 10 | 24°42'32 | 3 Ƴ 57 | 7°25 | 3°58 | 24°22 | 7°13 | 8°23 | 13°37 | 18°11 | 13°32 | 18°37 | 18° 9 | 14°21 | 14°41 | W18 |
| T 19 | 1 50 7 | 25°42'17 | 19° 8 | 7°56 | 4°27 | 25° 5 | 7° 5 | 8°23 | 13°34 | 18°10 | 13°32 | 18°R37 | 18° 5 | 14°27 | 14°38 | T 19 |
| F 20 | 1 54 3 | 26°42'04 | 4820 | 8°35 | 4°53 | 25°48 | 6°57 | 8°23 | 13°32 | 18°10 | 13°32 | 18°37 | 18° 2 | 14°34 | 14°36 | F 20 |
| S 21 | 1 58 0 | 27°41'53 | 19°23 | 9°24 | 5°19 | 26°31 | 6°49 | 8°R23 | 13°30 | 18°10 | 13°32 | 18°37 | 17°59 | 14°41 | 14°33 | S 21 |
| S 22 | 2 1 56 | 28°41'44 | 4 I I 8 | 10°19 | 5°42 | 27°14 | 6°41 | 8°23 | 13°27 | 18° 9 | 13°31 | 18°35 | 17°56 | 14°47 | 14°30 | S 22 |
| M23 | 2 5 53 | 29°41'37 | 18°30 | 11°22 | 6° 4 | 27°58 | 6°33 | 8°23 | 13°25 | 18° 9 | 13°31 | 18°34 | 17°53 | 14°54 | 14°27 | M23 |
| T 24 | 2 9 49 | 0 M .41'32 | 29526 | 12°30 | 6°23 | 28°41 | 6°25 | 8°23 | 13°23 | 18° 9 | 13°31 | 18°33 | 17°49 | 15° 1 | 14°25 | T 24 |
| W25 | 2 13 46 | 1°41'30 | 15°53 | 13°43 | 6°41 | 29°24 | 6°17 | 8°22 | 13°20 | 18° 9 | 13°31 | 18°32 | 17°46 | 15° 7 | 14°22 | W25 |
| T 26 | 2 17 43 | 2°41'30 | 28°54 | 15° 0 | 6°57 | 0 ∡ 8 | 6° 9 | 8°22 | 13°18 | 18° 8 | 13°30 | 18°D31 | 17°43 | 15°14 | 14°19 | T 26 |
| F 27 | 2 21 39 | 3°41'32 | 11 Ω 32 | 16°21 | 7°11 | 0°51 | 6° 1 | 8°21 | 13°16 | 18° 8 | 13°30 | 18°31 | 17°40 | 15°20 | 14°17 | F 27 |
| S 28 | 2 25 36 | 4°41'36 | 23°51 | 17°46 | 7°23 | 1°35 | 5°53 | 8°20 | 13°14 | 18° 8 | 13°30 | 18°32 | 17°37 | 15°27 | 14°14 | S 28 |
| S 29 | 2 29 32 | 5°41'42 | 5 m 56 | 19°13 | 7°32 | 2°18 | 5°45 | 8°20 | 13°11 | 18° 8 | 13°29 | 18°33 | 17°34 | 15°34 | 14°11 | S 29 |
| M30 | 2 33 29 | 6°41'50 | 17°50 | 20°42 | 7°40 | 3° 2 | 5°37 | 8°19 | 13° 9 | 18°D 8 | 13°29 | 18°35 | 17°30 | 15°40 | 14° 9 | M30 |
| T 31 | 2 37 25 | 7 M 42'00 | 29 m 39 | 22 ₾ 13 | 7 ,₹ 45 | 3 ∡ 746 | 5 8 28 | 89917 | 13 ° 7 | 18 ≈ 8 | 139529 | 18 ≏ 37 | 17 ≏ 27 | 15 ≏ 47 | 14 Y 6 | T 31 |

Delta T = 23.80 sec

NOVEMBER 1679 GC 00:00 UT

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|------|---------|-------------------|----------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|--------|----------------|----------------|----------------|---------------|------|
| W 1 | 2 41 22 | 8M42'12 | 11 ≏ 26 | 23 ≏ 45 | 7 , ₹48 | 4 ₹ 30 | 5°R20 | 8°R16 | 13°R 5 | 18 ≈ 8 | 13°R28 | 18 ≏ 37 | 17 ≏ 24 | 15 ≏ 54 | 14°R 4 | W 1 |
| T 2 | 2 45 18 | 9°42'26 | 23°13 | 25°18 | 7°R49 | 5°14 | 5 8 12 | 89915 | 13 Y 3 | 18° 8 | 139528 | 18°R38 | 17°21 | 16° 0 | 14 ° 1 | T 2 |
| F 3 | 2 49 15 | 10°42'42 | 5 M 4 | 26°53 | 7°47 | 5°58 | 5° 4 | 8°13 | 13° 1 | 18° 8 | 13°27 | 18°37 | 17°18 | 16° 7 | 13°59 | F 3 |
| S 4 | 2 53 12 | 11°43'00 | 17° 1 | 28°28 | 7°42 | 6°42 | 4°56 | 8°12 | 12°59 | 18° 9 | 13°27 | 18°34 | 17°15 | 16°14 | 13°56 | S 4 |
| S 5 | 2 57 8 | 12°43'20 | 29° 6 | OM 3 | 7°36 | 7°26 | 4°48 | 8°10 | 12°57 | 18° 9 | 13°26 | 18°31 | 17°11 | 16°20 | 13°54 | S 5 |
| M 6 | 3 1 5 | 13°43'41 | 11 ~ 19 | 1°39 | 7°27 | 8°10 | 4°40 | 8° 9 | 12°55 | 18° 9 | 13°26 | 18°27 | 17° 8 | 16°27 | 13°51 | M 6 |
| T 7 | 3 5 1 | 14°44'04 | 23°44 | 3°15 | 7°15 | 8°54 | 4°32 | 8° 7 | 12°53 | 18° 9 | 13°25 | 18°22 | 17° 5 | 16°34 | 13°49 | T 7 |
| W 8 | 3 8 58 | 15°44'28 | 6 පි 20 | 4°52 | 7° 1 | 9°39 | 4°24 | 8° 5 | 12°51 | 18° 9 | 13°25 | 18°18 | 17° 2 | 16°40 | 13°47 | W 8 |
| T 9 | 3 12 54 | 16°44'54 | 19°11 | 6°28 | 6°45 | 10°23 | 4°16 | 8° 3 | 12°49 | 18°10 | 13°24 | 18°14 | 16°59 | 16°47 | 13°45 | T 9 |
| F 10 | 3 16 51 | 17°45'21 | 2≈17 | 8° 5 | 6°26 | 11° 7 | 4° 9 | 8° 0 | 12°47 | 18°10 | 13°24 | 18°12 | 16°55 | 16°53 | 13°42 | F 10 |
| S 11 | 3 20 47 | 18°45'50 | 15°41 | 9°41 | 6° 5 | 11°52 | 4° 1 | 7°58 | 12°45 | 18°11 | 13°23 | 18°D11 | 16°52 | 17° 0 | 13°40 | S 11 |
| S 12 | 3 24 44 | 19°46'19 | 29°25 | 11°17 | 5°42 | 12°36 | 3°53 | 7°56 | 12°43 | 18°11 | 13°22 | 18°11 | 16°49 | 17° 7 | 13°38 | S 12 |
| M13 | 3 28 41 | 20°46'50 | 13) 28 | 12°54 | 5°16 | 13°21 | 3°46 | 7°53 | 12°41 | 18°11 | 13°22 | 18°12 | 16°46 | 17°13 | 13°36 | M13 |
| T 14 | 3 32 37 | 21°47'23 | 27°51 | 14°30 | 4°49 | 14° 6 | 3°39 | 7°51 | 12°40 | 18°12 | 13°21 | 18°14 | 16°43 | 17°20 | 13°34 | T 14 |
| W15 | 3 36 34 | 22°47'56 | 12 Y 31 | 16° 6 | 4°20 | 14°50 | 3°31 | 7°48 | 12°38 | 18°12 | 13°20 | 18°R15 | 16°40 | 17°27 | 13°32 | W15 |
| T 16 | 3 40 30 | 23°48'31 | 27°24 | 17°41 | 3°49 | 15°35 | 3°24 | 7°45 | 12°36 | 18°13 | 13°19 | 18°15 | 16°36 | 17°33 | 13°30 | T 16 |
| F 17 | 3 44 27 | 24°49'07 | 12823 | 19°17 | 3°17 | 16°20 | 3°17 | 7°42 | 12°35 | 18°14 | 13°19 | 18°13 | 16°33 | 17°40 | 13°28 | F 17 |
| S 18 | 3 48 23 | 25°49'44 | 27°19 | 20°53 | 2°43 | 17° 5 | 3°10 | 7°39 | 12°33 | 18°14 | 13°18 | 18° 9 | 16°30 | 17°47 | 13°26 | S 18 |
| S 19 | 3 52 20 | 26°50'23 | 12 II 4 | 22°28 | 2° 8 | 17°50 | 3° 3 | 7°36 | 12°32 | 18°15 | 13°17 | 18° 4 | 16°27 | 17°53 | 13°24 | S 19 |
| M20 | 3 56 16 | 27°51'04 | 26°31 | 24° 3 | 1°33 | 18°35 | 2°56 | 7°33 | 12°30 | 18°15 | 13°16 | 17°57 | 16°24 | 18° 0 | 13°22 | M20 |
| T 21 | 4 0 13 | 28°51'46 | 10933 | 25°38 | 0°57 | 19°20 | 2°50 | 7°30 | 12°29 | 18°16 | 13°15 | 17°51 | 16°21 | 18° 7 | 13°20 | T 21 |
| W22 | 4 4 10 | 29°52'30 | 24° 8 | 27°13 | 0°20 | 20° 5 | 2°43 | 7°27 | 12°27 | 18°17 | 13°15 | 17°45 | 16°17 | 18°13 | 13°18 | W22 |
| T 23 | 4 8 6 | 0 ∡ 153′15 | 7 Ω 16 | 28°47 | 29 M 44 | 20°50 | 2°37 | 7°23 | 12°26 | 18°18 | 13°14 | 17°40 | 16°14 | 18°20 | 13°17 | T 23 |
| F 24 | 4 12 3 | 1°54'01 | 19°58 | 0 ,₹ 22 | 29° 8 | 21°35 | 2°31 | 7°20 | 12°24 | 18°19 | 13°13 | 17°38 | 16°11 | 18°26 | 13°15 | F 24 |
| S 25 | 4 15 59 | 2°54'49 | 2 Mp 19 | 1°56 | 28°32 | 22°20 | 2°25 | 7°16 | 12°23 | 18°19 | 13°12 | 17°D37 | 16° 8 | 18°33 | 13°13 | S 25 |
| S 26 | 4 19 56 | 3°55'39 | 14°24 | 3°31 | 27°56 | 23° 5 | 2°19 | 7°13 | 12°22 | 18°20 | 13°11 | 17°37 | 16° 5 | 18°40 | 13°12 | S 26 |
| M27 | 4 23 52 | 4°56'30 | 26°17 | 5° 5 | 27°22 | 23°51 | 2°13 | 7° 9 | 12°21 | 18°21 | 13°10 | 17°39 | 16° 1 | 18°46 | 13°10 | M27 |
| T 28 | 4 27 49 | 5°57'22 | 8 ₾ 5 | 6°39 | 26°49 | 24°36 | 2° 8 | 7° 5 | 12°20 | 18°22 | 13° 9 | 17°40 | 15°58 | 18°53 | 13° 9 | T 28 |
| W29 | 4 31 45 | 6°58'16 | 19°51 | 8°14 | 26°17 | 25°22 | 2° 2 | 7° 1 | 12°18 | 18°23 | 13° 8 | 17°R40 | 15°55 | 19° 0 | 13° 8 | W29 |
| T 30 | 4 35 42 | 7 .7 59'11 | 1 M .41 | 9 , 748 | 25 ™ 47 | 26 ₹ 7 | 1 8 57 | 6 9 57 | 12 Y 17 | 18 ≈ 24 | 1395 7 | 17 ≏ 39 | 15 ≏ 52 | 19 ♀ 6 | 13 ° 6 | T 30 |

Delta T = 23.76 sec

Greg. Calendar

| DECEMBER 1679 GC | 00:00 UT |
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| DECEMBER 10/3 ac | 00.00 UI |

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|------|---------|-------------------|-----------------|-----------------|----------------|-----------------|---------------|-------|----------------|----------------|--------|----------------|----------------|----------------|----------------|------|
| F 1 | 4 39 39 | 9 ∡ ¹ 0'07 | 13 M 37 | 11 × 122 | 25°R19 | 26 × 353 | 1°R52 | 6°R53 | 12°R16 | 18≈25 | 13°R 6 | 17°R36 | 15 ≏ 49 | 19 ₽ 13 | 13°R 5 | F 1 |
| S 2 | 4 43 35 | 10° 1'04 | 25°43 | 12°56 | 24M52 | 27°38 | 1847 | 69549 | 12 Y 15 | 18°26 | 1395 5 | 17 ≏ 30 | 15°46 | 19°20 | 13 ° 4 | S 2 |
| S 3 | 4 47 32 | 11° 2'03 | 8 × 7 1 | 14°30 | 24°27 | 28°24 | 1°43 | 6°45 | 12°14 | 18°27 | 13° 4 | 17°21 | 15°42 | 19°26 | 13° 2 | S 3 |
| M 4 | 4 51 28 | 12° 3'02 | 20°32 | 16° 5 | 24° 5 | 29°10 | 1°38 | 6°41 | 12°13 | 18°29 | 13° 3 | 17°11 | 15°39 | 19°33 | 13° 1 | M 4 |
| T 5 | 4 55 25 | 13° 4'02 | 3 ප 15 | 17°39 | 23°45 | 29°56 | 1°34 | 6°36 | 12°13 | 18°30 | 13° 2 | 17° 1 | 15°36 | 19°40 | 13° 0 | T 5 |
| W 6 | 4 59 21 | 14° 5'04 | 16°11 | 19°13 | 23°27 | 0 궁 41 | 1°30 | 6°32 | 12°12 | 18°31 | 13° 1 | 16°50 | 15°33 | 19°46 | 12°59 | W 6 |
| T 7 | 5 3 18 | 15° 6'05 | 29°19 | 20°47 | 23°12 | 1°27 | 1°26 | 6°28 | 12°11 | 18°32 | 13° 0 | 16°41 | 15°30 | 19°53 | 12°58 | T 7 |
| F 8 | 5 7 14 | 16° 7'08 | 12≈38 | 22°22 | 22°58 | 2°13 | 1°22 | 6°23 | 12°10 | 18°33 | 12°59 | 16°34 | 15°26 | 20° 0 | 12°57 | F 8 |
| S 9 | 5 11 11 | 17° 8'11 | 26° 8 | 23°56 | 22°48 | 2°59 | 1°18 | 6°19 | 12°10 | 18°35 | 12°58 | 16°29 | 15°23 | 20° 6 | 12°56 | S 9 |
| S 10 | 5 15 8 | 18° 9'14 | 9) 51 | 25°31 | 22°40 | 3°45 | 1°15 | 6°14 | 12° 9 | 18°36 | 12°56 | 16°27 | 15°20 | 20°13 | 12°55 | S 10 |
| M11 | 5 19 4 | 19°10'18 | 23°45 | 27° 6 | 22°34 | 4°31 | 1°12 | 6° 9 | 12° 9 | 18°37 | 12°55 | 16°D27 | 15°17 | 20°19 | 12°55 | M11 |
| T 12 | 5 23 1 | 20°11'22 | 7 Y 51 | 28°40 | 22°31 | 5°17 | 1° 9 | 6° 5 | 12° 8 | 18°39 | 12°54 | 16°27 | 15°14 | 20°26 | 12°54 | T 12 |
| W13 | 5 26 57 | 21°12'26 | 22° 9 | 0 궁 15 | 22°D30 | 6° 3 | 1° 6 | 6° 0 | 12° 8 | 18°40 | 12°53 | 16°R28 | 15°11 | 20°33 | 12°53 | W13 |
| T 14 | 5 30 54 | 22°13'31 | 6 8 36 | 1°50 | 22°32 | 6°49 | 1° 3 | 5°55 | 12° 7 | 18°42 | 12°52 | 16°26 | 15° 7 | 20°39 | 12°53 | T 14 |
| F 15 | 5 34 50 | 23°14'36 | 21° 9 | 3°25 | 22°36 | 7°36 | 1° 1 | 5°51 | 12° 7 | 18°43 | 12°51 | 16°22 | 15° 4 | 20°46 | 12°52 | F 15 |
| S 16 | 5 38 47 | 24°15'42 | 5 Ⅱ 43 | 5° 0 | 22°42 | 8°22 | 0°59 | 5°46 | 12° 7 | 18°45 | 12°50 | 16°15 | 15° 1 | 20°53 | 12°52 | S 16 |
| S 17 | 5 42 43 | 25°16'48 | 20°11 | 6°35 | 22°51 | 9° 8 | 0°57 | 5°41 | 12° 6 | 18°46 | 12°48 | 16° 5 | 14°58 | 20°59 | 12°51 | S 17 |
| M18 | 5 46 40 | 26°17'54 | 49526 | 8° 9 | 23° 2 | 9°55 | 0°55 | 5°36 | 12° 6 | 18°48 | 12°47 | 15°54 | 14°55 | 21° 6 | 12°51 | M18 |
| T 19 | 5 50 37 | 27°19'01 | 18°22 | 9°44 | 23°15 | 10°41 | 0°54 | 5°31 | 12° 6 | 18°49 | 12°46 | 15°42 | 14°52 | 21°13 | 12°51 | T 19 |
| W20 | 5 54 33 | 28°20'09 | 1 N 56 | 11°19 | 23°31 | 11°27 | 0°52 | 5°26 | 12° 6 | 18°51 | 12°45 | 15°31 | 14°48 | 21°19 | 12°50 | W20 |
| T 21 | 5 58 30 | 29°21'16 | 15° 5 | 12°53 | 23°48 | 12°14 | 0°51 | 5°22 | 12°D 6 | 18°52 | 12°43 | 15°21 | 14°45 | 21°26 | 12°50 | T 21 |
| F 22 | 6 2 26 | 0 ප් 22'25 | 27°51 | 14°27 | 24° 8 | 13° 0 | 0°50 | 5°17 | 12° 6 | 18°54 | 12°42 | 15°14 | 14°42 | 21°33 | 12°50 | F 22 |
| S 23 | 6 6 23 | 1°23'33 | 10 m)15 | 16° 0 | 24°29 | 13°47 | 0°49 | 5°12 | 12° 6 | 18°56 | 12°41 | 15°10 | 14°39 | 21°39 | 12°50 | S 23 |
| S 24 | 6 10 19 | 2°24'43 | 22°21 | 17°33 | 24°52 | 14°33 | 0°49 | 5° 7 | 12° 6 | 18°57 | 12°40 | 15° 8 | 14°36 | 21°46 | 12°D50 | S 24 |
| M25 | 6 14 16 | 3°25'52 | 4 ₽ 16 | 19° 5 | 25°18 | 15°20 | 0°49 | 5° 2 | 12° 6 | 18°59 | 12°39 | 15°D 8 | 14°32 | 21°53 | 12°50 | M25 |
| T 26 | 6 18 12 | 4°27'02 | 16° 4 | 20°37 | 25°45 | 16° 7 | 0°D49 | 4°57 | 12° 7 | 19° 1 | 12°37 | 15°R 8 | 14°29 | 21°59 | 12°50 | T 26 |
| W27 | 6 22 9 | 5°28'13 | 27°51 | 22° 7 | 26°13 | 16°53 | 0°49 | 4°52 | 12° 7 | 19° 3 | 12°36 | 15° 7 | 14°26 | 22° 6 | 12°50 | W27 |
| T 28 | 6 26 6 | 6°29'24 | 9 M .43 | 23°35 | 26°43 | 17°40 | 0°49 | 4°47 | 12° 7 | 19° 4 | 12°35 | 15° 5 | 14°23 | 22°12 | 12°50 | T 28 |
| F 29 | 6 30 2 | 7°30'35 | 21°44 | 25° 2 | 27°15 | 18°27 | 0°49 | 4°42 | 12° 7 | 19° 6 | 12°34 | 15° 0 | 14°20 | 22°19 | 12°51 | F 29 |
| S 30 | 6 33 59 | 8°31'46 | 3 ∡ 58 | 26°27 | 27°48 | 19°13 | 0°50 | 4°37 | 12° 8 | 19° 8 | 12°32 | 14°52 | 14°17 | 22°26 | 12°51 | S 30 |
| S 31 | 6 37 55 | 9 ප 32'58 | 16 渘 28 | 27 石 49 | 28 M 23 | 20궁 0 | 0 8 51 | 4932 | 12 Y 8 | 19 ≈ 10 | 12931 | 14 ≏ 42 | 14 ₽ 13 | 22 £ 32 | 12 Y 51 | S 31 |

Delta T = 23.71 sec

JANUARY 1680 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |) / (| ¥ | В | ß | ß | Ç | ę, | Day |
|------|---------|-------------------|-----------------|----------------|----------------|----------------|---------------|-------|----------------|-------|--------|----------------|----------------|----------------|----------------|------|
| M 1 | 6 41 52 | 10 ට 34'09 | 29 х 14 | 29る 9 | 28 M 59 | 20 궁 47 | 0 岁 52 | 4°R27 | 12 Y 9 | 19≈12 | 12°R30 | 14°R29 | 14 ♀ 10 | 22 Ω 39 | 12 Y 52 | M 1 |
| T 2 | 6 45 48 | 11°35'21 | 12 る 18 | 0≈24 | 29°37 | 21°34 | 0°54 | 49522 | 12°10 | 19°14 | 129528 | 14 ₽ 15 | 14° 7 | 22°46 | 12°52 | T 2 |
| W 3 | 6 49 45 | 12°36'32 | 25°38 | 1°36 | 0 ∡ 15 | 22°21 | 0°55 | 4°17 | 12°10 | 19°15 | 12°27 | 14° 1 | 14° 4 | 22°52 | 12°53 | W 3 |
| T 4 | 6 53 41 | 13°37'43 | 9≈10 | 2°43 | 0°55 | 23° 8 | 0°57 | 4°12 | 12°11 | 19°17 | 12°26 | 13°49 | 14° 1 | 22°59 | 12°54 | T 4 |
| F 5 | 6 57 38 | 14°38'54 | 22°53 | 3°45 | 1°36 | 23°55 | 0°59 | 4° 8 | 12°12 | 19°19 | 12°25 | 13°40 | 13°58 | 23° 6 | 12°54 | F 5 |
| S 6 | 7 1 35 | 15°40'04 | 6) €43 | 4°40 | 2°19 | 24°42 | 1° 1 | 4° 3 | 12°12 | 19°21 | 12°23 | 13°33 | 13°54 | 23°12 | 12°55 | S 6 |
| S 7 | 7 5 31 | 16°41'13 | 20°39 | 5°27 | 3° 2 | 25°29 | 1° 4 | 3°58 | 12°13 | 19°23 | 12°22 | 13°30 | 13°51 | 23°19 | 12°56 | S 7 |
| M 8 | 7 9 28 | 17°42'22 | 4Υ 39 | 6° 7 | 3°46 | 26°16 | 1° 6 | 3°53 | 12°14 | 19°25 | 12°21 | 13°28 | 13°48 | 23°26 | 12°57 | M 8 |
| T 9 | 7 13 24 | 18°43'30 | 18°41 | 6°38 | 4°32 | 27° 3 | 1° 9 | 3°48 | 12°15 | 19°27 | 12°20 | 13°28 | 13°45 | 23°32 | 12°58 | T 9 |
| W10 | 7 17 21 | 19°44'38 | 2 8 47 | 6°59 | 5°18 | 27°50 | 1°12 | 3°44 | 12°16 | 19°29 | 12°18 | 13°28 | 13°42 | 23°39 | 12°59 | W10 |
| T 11 | 7 21 17 | 20°45'45 | 16°54 | 7°R 9 | 6° 5 | 28°37 | 1°15 | 3°39 | 12°17 | 19°31 | 12°17 | 13°26 | 13°38 | 23°46 | 13° 0 | T 11 |
| F 12 | 7 25 14 | 21°46'51 | 1 II 2 | 7° 8 | 6°53 | 29°24 | 1°18 | 3°34 | 12°18 | 19°33 | 12°16 | 13°21 | 13°35 | 23°52 | 13° 1 | F 12 |
| S 13 | 7 29 10 | 22°47'56 | 15° 8 | 6°55 | 7°42 | 0≈11 | 1°22 | 3°30 | 12°19 | 19°35 | 12°15 | 13°14 | 13°32 | 23°59 | 13° 2 | S 13 |
| S 14 | 7 33 7 | 23°49'01 | 29° 8 | 6°31 | 8°32 | 0°58 | 1°26 | 3°25 | 12°21 | 19°38 | 12°13 | 13° 4 | 13°29 | 24° 5 | 13° 3 | S 14 |
| M15 | 7 37 4 | 24°50'04 | 129558 | 5°55 | 9°23 | 1°45 | 1°30 | 3°21 | 12°22 | 19°40 | 12°12 | 12°51 | 13°26 | 24°12 | 13° 4 | M15 |
| T 16 | 7 41 0 | 25°51'08 | 26°35 | 5° 9 | 10°14 | 2°33 | 1°34 | 3°17 | 12°23 | 19°42 | 12°11 | 12°39 | 13°23 | 24°19 | 13° 6 | T 16 |
| W17 | 7 44 57 | 26°52'10 | 9 Ω 55 | 4°12 | 11° 6 | 3°20 | 1°38 | 3°12 | 12°24 | 19°44 | 12°10 | 12°26 | 13°19 | 24°25 | 13° 7 | W17 |
| T 18 | 7 48 53 | 27°53'12 | 22°55 | 3° 8 | 11°59 | 4° 7 | 1°43 | 3° 8 | 12°26 | 19°46 | 12° 8 | 12°16 | 13°16 | 24°32 | 13° 8 | T 18 |
| F 19 | 7 52 50 | 28°54'13 | 5 m 36 | 1°58 | 12°52 | 4°54 | 1°47 | 3° 4 | 12°27 | 19°48 | 12° 7 | 12° 8 | 13°13 | 24°39 | 13°10 | F 19 |
| S 20 | 7 56 46 | 29°55'13 | 17°58 | 0°43 | 13°47 | 5°42 | 1°52 | 3° 0 | 12°29 | 19°50 | 12° 6 | 12° 2 | 13°10 | 24°45 | 13°11 | S 20 |
| S 21 | 8 0 43 | 0≈56'13 | 0 º 5 | 29 궁 27 | 14°41 | 6°29 | 1°57 | 2°56 | 12°30 | 19°53 | 12° 5 | 12° 0 | 13° 7 | 24°52 | 13°13 | S 21 |
| M22 | 8 4 40 | 1°57'12 | 12° 1 | 28°11 | 15°37 | 7°16 | 2° 3 | 2°52 | 12°32 | 19°55 | 12° 4 | 11°D59 | 13° 4 | 24°59 | 13°14 | M22 |
| T 23 | 8 8 36 | 2°58'10 | 23°50 | 26°58 | 16°33 | 8° 3 | 2° 8 | 2°48 | 12°34 | 19°57 | 12° 2 | 11°59 | 13° 0 | 25° 5 | 13°16 | T 23 |
| W24 | 8 12 33 | 3°59'08 | 5 M .38 | 25°49 | 17°29 | 8°51 | 2°14 | 2°44 | 12°35 | 19°59 | 12° 1 | 12°R 0 | 12°57 | 25°12 | 13°18 | W24 |
| T 25 | 8 16 29 | 5° 0'05 | 17°30 | 24°47 | 18°26 | 9°38 | 2°19 | 2°40 | 12°37 | 20° 1 | 12° 0 | 11°59 | 12°54 | 25°19 | 13°20 | T 25 |
| F 26 | 8 20 26 | 6° 1'02 | 29°32 | 23°52 | 19°24 | 10°26 | 2°25 | 2°36 | 12°39 | 20° 4 | 11°59 | 11°56 | 12°51 | 25°25 | 13°21 | F 26 |
| S 27 | 8 24 22 | 7° 1'58 | 11 ×7 49 | 23° 4 | 20°22 | 11°13 | 2°31 | 2°32 | 12°40 | 20° 6 | 11°58 | 11°51 | 12°48 | 25°32 | 13°23 | S 27 |
| S 28 | 8 28 19 | 8° 2'52 | 2 <u>4°</u> 24 | 22°26 | 21°21 | 12° 0 | 2°38 | 2°29 | 12°42 | 20° 8 | 11°57 | 11°43 | 12°44 | 25°39 | 13°25 | S 28 |
| M29 | 8 32 15 | 9° 3'47 | 7 궁 21 | 21°56 | 22°20 | 12°48 | 2°44 | 2°25 | 12°44 | 20°10 | 11°56 | 11°33 | 12°41 | 25°45 | 13°27 | M29 |
| T 30 | 8 36 12 | 10° 4'40 | 20°39 | 2 <u>1</u> °34 | 23°19 | 13°35 | 2°51 | 2°22 | 12°46 | 20°13 | 11°54 | 11°22 | 12°38 | 25°52 | 13°29 | T 30 |
| W31 | 8 40 9 | 11≈ 5'32 | 4≈18 | 21 궁 21 | 24 × 19 | 14≈22 | 2 8 58 | 29619 | 12 Y 48 | 20≈15 | 11953 | 11 ≏ 11 | 12 ≏ 35 | 25 ≏ 58 | 13 Y 31 | W31 |

Delta T = 23.66 sec Gro

Greg. Calendar

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| Day | Sid.t | 0 |) | ğ | φ | ð | 4 | ħ | ᡟ | ¥ | Р | Ç | c c | Ç | κ0 | Day |
|------|----------|-------------------|----------------|----------------|----------------|---------------|---------------|-------|----------------|-------|--------|----------------|----------------|----------------|----------------|------|
| T 1 | 8 44 5 | 12≈ 6'22 | 18 ≈ 15 | 21°D16 | 25 × 19 | 15≈10 | 3 8 4 | 2°R15 | 12 Y 50 | 20≈17 | 11°R52 | 11°R 2 | 12 232 | 26 ♀ 5 | 13 Y 33 | T 1 |
| F 2 | 8 48 2 | 13° 7'12 | 2) 25 | 21중18 | 26°20 | 15°57 | 3°12 | 29912 | 12°52 | 20°19 | 11951 | 10 ≏ 54 | 12°29 | 26°12 | 13°36 | F 2 |
| S 3 | 8 51 58 | 14° 8'00 | 16°42 | 21°27 | 27°21 | 16°45 | 3°19 | 2° 9 | 12°54 | 20°22 | 11°50 | 10°49 | 12°25 | 26°18 | 13°38 | S 3 |
| S 4 | 8 55 55 | 15° 8'47 | 1 Υ 3 | 21°43 | 28°22 | 17°32 | 3°26 | 2° 6 | 12°56 | 20°24 | 11°49 | 10°46 | 12°22 | 26°25 | 13°40 | S 4 |
| M 5 | 8 59 51 | 16° 9'32 | 15°22 | 22° 5 | 29°24 | 18°20 | 3°34 | 2° 3 | 12°59 | 20°26 | 11°48 | 10°D46 | 12°19 | 26°32 | 13°42 | M 5 |
| T 6 | 9 3 48 | 17°10'15 | 29°37 | 22°33 | 0 궁 26 | 19° 7 | 3°41 | 2° 1 | 13° 1 | 20°28 | 11°47 | 10°47 | 12°16 | 26°38 | 13°45 | T 6 |
| W 7 | 9 7 44 | 18°10'57 | 13 8 45 | 23° 6 | 1°28 | 19°54 | 3°49 | 1°58 | 13° 3 | 20°31 | 11°46 | 10°R48 | 12°13 | 26°45 | 13°47 | W 7 |
| T 8 | 9 11 41 | 19°11'38 | 27°47 | 23°44 | 2°31 | 20°42 | 3°57 | 1°55 | 13° 5 | 20°33 | 11°45 | 10°47 | 12°10 | 26°52 | 13°50 | T 8 |
| F 9 | 9 15 37 | 20°12'16 | 11 Ⅱ 40 | 24°26 | 3°34 | 21°29 | 4° 5 | 1°53 | 13° 8 | 20°35 | 11°44 | 10°45 | 12° 6 | 26°58 | 13°52 | F 9 |
| S 10 | 9 19 34 | 21°12'53 | 25°24 | 25°12 | 4°37 | 22°17 | 4°14 | 1°51 | 13°10 | 20°37 | 11°43 | 10°41 | 12° 3 | 27° 5 | 13°55 | S 10 |
| S 11 | 9 23 31 | 22°13'28 | 8958 | 26° 1 | 5°41 | 23° 4 | 4°22 | 1°48 | 13°13 | 20°40 | 11°42 | 10°35 | 12° 0 | 27°12 | 13°57 | S 11 |
| M12 | 9 27 27 | 23°14'01 | 22°22 | 26°54 | 6°45 | 23°52 | 4°31 | 1°46 | 13°15 | 20°42 | 11°41 | 10°27 | 11°57 | 27°18 | 14° 0 | M12 |
| T 13 | 9 31 24 | 24°14'33 | 5 Ω 33 | 27°50 | 7°49 | 24°39 | 4°40 | 1°44 | 13°18 | 20°44 | 11°40 | 10°18 | 11°54 | 27°25 | 14° 2 | T 13 |
| W14 | 9 35 20 | 25°15'03 | 18°30 | 28°49 | 8°53 | 25°26 | 4°48 | 1°42 | 13°20 | 20°47 | 11°40 | 10°10 | 11°50 | 27°32 | 14° 5 | W14 |
| T 15 | 9 39 17 | 26°15'32 | 1 m 13 | 29°51 | 9°58 | 26°14 | 4°57 | 1°40 | 13°23 | 20°49 | 11°39 | 10° 3 | 11°47 | 27°38 | 14° 8 | T 15 |
| F 16 | 9 43 13 | 27°15'58 | 13°41 | 0≈55 | 11° 3 | 27° 1 | 5° 6 | 1°39 | 13°25 | 20°51 | 11°38 | 9°58 | 11°44 | 27°45 | 14°10 | F 16 |
| S 17 | 9 47 10 | 28°16'23 | 25°56 | 2° 2 | 12° 8 | 27°49 | 5°16 | 1°37 | 13°28 | 20°53 | 11°37 | 9°55 | 11°41 | 27°52 | 14°13 | S 17 |
| S 18 | 9 51 6 | 29°16'47 | 7 ≙ 59 | 3°10 | 13°14 | 28°36 | 5°25 | 1°35 | 13°31 | 20°56 | 11°36 | 9°D53 | 11°38 | 27°58 | 14°16 | S 18 |
| M19 | 9 55 3 | 0)(17'09 | 19°53 | 4°21 | 14°19 | 29°23 | 5°34 | 1°34 | 13°33 | 20°58 | 11°35 | 9°54 | 11°35 | 28° 5 | 14°19 | M19 |
| T 20 | 9 59 0 | 1°17'30 | 1 M .42 | 5°34 | 15°25 | 0 ∺ 11 | 5°44 | 1°33 | 13°36 | 21° 0 | 11°35 | 9°55 | 11°31 | 28°11 | 14°22 | T 20 |
| W21 | 10 2 56 | 2°17'49 | 13°30 | 6°48 | 16°31 | 0°58 | 5°54 | 1°32 | 13°39 | 21° 2 | 11°34 | 9°57 | 11°28 | 28°18 | 14°25 | W21 |
| T 22 | 10 6 53 | 3°18'07 | 25°22 | 8° 4 | 17°37 | 1°45 | 6° 4 | 1°30 | 13°41 | 21° 5 | 11°33 | 9°59 | 11°25 | 28°25 | 14°28 | T 22 |
| F 23 | 10 10 49 | 4°18'24 | 7 .₹ 24 | 9°22 | 18°43 | 2°33 | 6°14 | 1°29 | 13°44 | 21° 7 | 11°33 | 9°R59 | 11°22 | 28°31 | 14°31 | F 23 |
| S 24 | 10 14 46 | 5°18'38 | 19°40 | 10°41 | 19°50 | 3°20 | 6°24 | 1°29 | 13°47 | 21° 9 | 11°32 | 9°58 | 11°19 | 28°38 | 14°34 | S 24 |
| S 25 | 10 18 42 | 6°18'52 | 2 ප 14 | 12° 1 | 20°57 | 4° 8 | 6°34 | 1°28 | 13°50 | 21°11 | 11°31 | 9°55 | 11°15 | 28°45 | 14°37 | S 25 |
| M26 | 10 22 39 | 7°19'04 | 15°11 | 13°24 | 22° 4 | 4°55 | 6°44 | 1°27 | 13°53 | 21°14 | 11°31 | 9°51 | 11°12 | 28°51 | 14°40 | M26 |
| T 27 | 10 26 35 | 8°19'14 | 28°33 | 14°47 | 23°11 | 5°42 | 6°55 | 1°27 | 13°56 | 21°16 | 11°30 | 9°46 | 11° 9 | 28°58 | 14°43 | T 27 |
| W28 | 10 30 32 | 9°19'23 | 12≈21 | 16°12 | 24°18 | 6°29 | 7° 5 | 1°26 | 13°59 | 21°18 | 11°29 | 9°41 | 11° 6 | 29° 5 | 14°46 | W28 |
| T 29 | 10 34 29 | 10 米 19'29 | 26≈31 | 17 ≈ 38 | 25 る 26 | 7 ∺ 17 | 7 8 16 | 19526 | 14 Y 2 | 21≈20 | 119529 | 9 ॒ 37 | 11 ♀ 3 | 29 ₽ 11 | 14 Y 49 | T 29 |

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|--------------|----------------------|---------------------|------------------------|----------------|----------------|------------------------|----------------|--------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|--------------|
| F 1 | 10 38 25 | 11) 19'34 | 11) 0 | 19≈ 5 | 26 궁 33 | 8 ∺ 4 | 7 8 26 | 1°R26 | 14 Y 5 | 21≈22 | 11°R28 | 9°R33 | 11 ♀ 0 | 29 ≏ 18 | 14 Y 53 | F 1 |
| S 2 | 10 42 22 | 12°19'38 | 25°42 | 20°34 | 27°41 | 8°51 | 7°37 | 1°D26 | 14° 8 | 21°25 | 119528 | 9 ≏ 31 | 10°56 | 29°25 | 14°56 | S 2 |
| S 3 | 10 46 18 | 13°19'39 | 10 Y 29 | 22° 4 | 28°49 | 9°38 | 7°48 | 19926 | 14°11 | 21°27 | 11°27 | 9°D31 | 10°53 | 29°31 | 14°59 | S 3 |
| M 4 | 10 50 15 | 14°19'38 | 25°15 | 23°35 | 29°57 | 10°26 | 7°59 | 1°26 | 14°14 | 21°29 | 11°27 | 9°31 | 10°50 | 29°38 | 15° 2 | M 4 |
| T 5 | 10 54 11 | 15°19'35 | 9 8 53 | 25° 7 | 1≈ 5 | 11°13 | 8°10 | 1°26 | 14°17 | 21°31 | 11°26 | 9°33 | 10°47 | 29°45 | 15° 6 | T 5 |
| W 6 | 10 58 8 | 16°19'29 | 24°18 | 26°40 | 2°13 | 12° 0 | 8°22 | 1°27 | 14°20 | 21°33 | 11°26 | 9°34 | 10°44 | 29°51 | 15° 9 | W 6 |
| T 7 | 11 2 4 | 17°19'22 | 8 Ⅲ 27 | 28°15 | 3°21 | 12°47 | 8°33 | 1°27 | 14°23 | 21°35 | 11°25 | 9°35 | 10°41 | 29°58 | 15°12 | T 7 |
| F 8 | 11 6 1 | 18°19'12 | 22°19 | 29°51 | 4°30 | 13°34 | 8°44 | 1°28 | 14°26 | 21°37 | 11°25 | 9°R35 | 10°37 | OM 5 | 15°16 | F 8 |
| S 9 | 11 9 58 | 19°19'00 | 5 9 55 | 1 ∺ 28 | 5°38 | 14°21 | 8°56 | 1°28 | 14°30 | 21°39 | 11°25 | 9°34 | 10°34 | 0°11 | 15°19 | S 9 |
| S 10 | 11 13 54 | 20°18'46 | 19°14 | 3° 6 | 6°47 | 15° 8 | 9° 8 | 1°29 | 14°33 | 21°41 | 11°24 | 9°33 | 10°31 | 0°18 | 15°23 | S 10 |
| M11 | 11 17 51 | 21°18'30 | 2 Ω 17 | 4°45 | 7°56 | 15°56 | 9°19 | 1°30 | 14°36 | 21°43 | 11°24 | 9°30 | 10°28 | 0°24 | 15°26 | M11 |
| T 12 | 11 21 47 | 22°18'11 | 15° 6 | 6°26 | 9° 5 | 16°43 | 9°31 | 1°31 | 14°39 | 21°45 | 11°24 | 9°28 | 10°25 | 0°31 | 15°30 | T 12 |
| W13 | 11 25 44 | 23°17'50 | 27°42 | 8° 8 | 10°14 | 17°30 | 9°43 | 1°32 | 14°42 | 21°48 | 11°23 | 9°25 | 10°21 | 0°38 | 15°33 | W13 |
| T 14 | 11 29 40 | 24°17'27 | 10 m 5 | 9°51 | 11°23 | 18°17 | 9°55 | 1°34 | 14°46 | 21°50 | 11°23 | 9°23 | 10°18 | 0°44 | 15°37 | T 14 |
| F 15 | 11 33 37 | 25°17'02 | 22°18 | 11°35 | 12°32 | 19° 3 | 10° 7 | 1°35 | 14°49 | 21°52 | 11°23 | 9°22 | 10°15 | 0°51 | 15°40 | F 15 |
| S 16 | 11 37 33 | 26°16'34 | 4 ₾ 22 | 13°21 | 13°41 | 19°50 | 10°19 | 1°36 | 14°52 | 21°53 | 11°23 | 9°D21 | 10°12 | 0°58 | 15°44 | S 16 |
| S 17 | 11 41 30 | 27°16'05 | 16°18 | 15° 8 | 14°51 | 20°37 | 10°31 | 1°38 | 14°56 | 21°55 | 11°22 | 9°21 | 10° 9 | 1° 4 | 15°47 | S 17 |
| M18 | 11 45 26 | 28°15'34 | 28°10 | 16°56 | 16° 0 | 21°24 | 10°43 | 1°40 | 14°59 | 21°57 | 11°22 | 9°22 | 10° 6 | 1°11 | 15°51 | M18 |
| T 19 | 11 49 23 | 29°15'01 | 9 ™ 58 | 18°45 | 17°10 | 22°11 | 10°55 | 1°42 | 15° 2 | 21°59 | 11°22 | 9°23 | 10° 2 | 1°18 | 15°54 | T 19 |
| W20 | 11 53 20 | 0 Υ 14'26 | 21°47 | 20°36 | 18°19 | 22°58 | 11° 8 | 1°43 | 15° 6 | 22° 1 | 11°22 | 9°24 | 9°59 | 1°24 | 15°58 | W20 |
| T 21 | 11 57 16 | 1°13'49 | 3 ~ 40 | 22°28 | 19°29 | 23°45 | 11°20 | 1°45 | 15° 9 | 22° 3 | 11°22 | 9°24 | 9°56 | 1°31 | 16° 2 | T 21 |
| F 22 | 12 1 13 | 2°13'11 | 15°41 | 24°22 | 20°39 21°49 | 24°31 | 11°33 | 1°48 | 15°12 15°16 | 22° 5 22° 7 | 11°22 | 9°25 | 9°53 9°50 | 1°38 | 16° 5 16° 9 | F 22 S 23 |
| S 23 | 12 5 9 | 3°12'30 | 27°55 | 26°16 | | 25°18 | 11°45 | 1°50 | | | 11°22 | 9°R25 | | 1°44 | | |
| S 24 | 12 9 6 | 4°11'48 | 10 ට 27 | 28°12 | 22°59 | 26° 5 | 11°58 | 1°52 | 15°19 | 22° 9 | 11°D22 | 9°25 | 9°47 | 1°51 | 16°13 | S 24 |
| M25 | 12 13 2 | 5°11'04 | 23°19 | 0Υ 9 | 24° 9 | 26°51 | 12°11 | 1°55 | 15°22 | 22°10 | 11°22 | 9°25 | 9°43 | 1°58 | 16°16 | M25 |
| T 26 | 12 16 59 | 6°10'19 | 6≈36 | 2° 8 | 25°19 | 27°38 | 12°23 | 1°57 | 15°26 | 22°12 | 11°22 | 9°25 | 9°40 | 2° 4 | 16°20 | T 26 |
| W27 | 12 20 55 | 7° 9'31 | 20°20 | 4° 8 | 26°29 | 28°25 | 12°36 | 2° 0 | 15°29 | 22°14 | 11°22 | 9°25 | 9°37 | 2°11 | 16°24 | W27 |
| T 28 F 29 | 12 24 52 | 8° 8'42 9° 7'50 | 4) €30 | 6° 8 | 27°40 | 29°11 | 12°49 13° 2 | 2° 3 2° 5 | 15°33 15°36 | 22°16 22°17 | 11°22 | 9°24 | 9°34 | 2°18 2°24 | 16°27 16°31 | T 28 F 29 |
| F 29 | 12 28 49 12 32 45 | 9° 7'50 10° 6'57 | 19° 4 3 Ƴ 57 | 8°10 10°13 | 28°50 0₩ 0 | 29°58 0 Ƴ 44 | 13° 2 13°15 | 2° 5 2° 8 | 15°36 15°39 | 22°17 22°19 | 11°22 11°22 | 9°D24 9°R24 | 9°31 9°27 | 2°24 2°31 | 16°31 16°35 | F 29 S 30 |
| | | | | | | | | _ | | | | - | | _ | | |
| S 31 | 12 36 42 | 11 ° 6'02 | 19 Ƴ 1 | 12 Y 17 | 1) (11 | 1 Υ 31 | 13 8 28 | 29511 | 15 Ƴ 43 | 22≈21 | 119522 | 9 ≏ 24 | 9 ≏ 24 | 2 M .38 | 16 Y 38 | S 31 |

Delta T = 23.57 sec

Greg. Calendar

APRIL 1680 GC 00:00 UT

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|--------------|----------------------|----------------------|------------------------|----------------|----------------|----------------|----------------|--------------|----------------|----------------|----------------|---------------|---------------|---------------|----------------|--------------|
| M 1 | 12 40 38 | 12 Y 5'05 | 4 8 8 | 14 Υ 21 | 2) 21 | 2 Υ 17 | 13 8 41 | 29515 | 15 Y 46 | 22≈22 | 119522 | 9°R24 | 9 ₽ 21 | 2 M 44 | 16 Y 42 | M 1 |
| T 2 | 12 44 35 | 13° 4'05 | 19° 8 | 16°26 | 3°32 | 3° 4 | 13°54 | 2°18 | 15°50 | 22°24 | 11°23 | 9 ≏ 24 | 9°18 | 2°51 | 16°46 | T 2 |
| W 3 | 12 48 31 | 14° 3'04 | 3 Ⅱ 54 | 18°31 | 4°43 | 3°50 | 14° 8 | 2°21 | 15°53 | 22°26 | 11°23 | 9°23 | 9°15 | 2°58 | 16°50 | W 3 |
| T 4 | 12 52 28 | 15° 2'00 | 18°20 | 20°37 | 5°53 | 4°36 | 14°21 | 2°25 | 15°57 | 22°27 | 11°23 | 9°23 | 9°12 | 3° 4 | 16°53 | T 4 |
| F 5 | 12 56 24 | 16° 0'54 | 29522 | 22°42 | 7° 4 | 5°22 | 14°34 | 2°28 | 16° 0 | 22°29 | 11°23 | 9°22 | 9° 8 | 3°11 | 16°57 | F 5 |
| S 6 | 13 0 21 | 16°59'45 | 16° 1 | 24°46 | 8°15 | 6° 9 | 14°48 | 2°32 | 16° 4 | 22°30 | 11°24 | 9°D22 | 9° 5 | 3°18 | 17° 1 | S 6 |
| S 7 | 13 4 18 | 17°58'34 | 29°15 | 26°50 | 9°25 | 6°55 | 15° 1 | 2°36 | 16° 7 | 22°32 | 11°24 | 9°22 | 9° 2 | 3°24 | 17° 4 | S 7 |
| M 8 | 13 8 14 | 18°57'21 | 12 N 9 | 28°53 | 10°36 | 7°41 | 15°14 | 2°39 | 16°10 | 22°33 | 11°24 | 9°23 | 8°59 | 3°31 | 17° 8 | M 8 |
| T 9 | 13 12 11 | 19°56'06 | 24°45 | 0 8 54 | 11°47 | 8°27 | 15°28 | 2°43 | 16°14 | 22°35 | 11°25 | 9°24 | 8°56 | 3°37 | 17°12 | T 9 |
| W10 | 13 16 7 | 20°54'48 | 7 m 6 | 2°54 | 12°58 | 9°13 | 15°41 | 2°47 | 16°17 | 22°36 | 11°25 | 9°25 | 8°52 | 3°44 | 17°16 | W10 |
| T 11 F 12 | 13 20 4 13 24 0 | 21°53'28 22°52'06 | 19°15 1 Ω 16 | 4°52 6°47 | 14° 9 15°20 | 9°59 10°45 | 15°55 16° 9 | 2°51 2°56 | 16°21 16°24 | 22°37 22°39 | 11°25 11°26 | 9°26 9°27 | 8°49 8°46 | 3°51 3°57 | 17°19 17°23 | T 11 F 12 |
| S 13 | 13 24 0 | 22°50'42 | 13°10 | 8°39 | 15°20 | 10 43 11°31 | 16°22 | 3° 0 | 16°28 | 22°40 | 11°26 | 9°R27 | 8°43 | 3 37 4° 4 | 17°27 | S 13 |
| | | | | | | | | | | | _ | | | | | |
| S 14 | 13 31 53 | 24°49'16 | 25° 0 | 10°28 | 17°42 | 12°17 | 16°36 | 3° 4 | 16°31 | 22°41 | 11°27 | 9°26 | 8°40 | 4°11 | 17°30 | S 14 |
| M15 | 13 35 50 | 25°47'48 | 6M49 | 12°14 | 18°54 | 13° 3 | 16°50 | 3° 9 | 16°34 | 22°43 22°44 | 11°27 | 9°25 | 8°37 | 4°17 | 17°34 | M15 |
| T 16 W17 | 13 39 46 13 43 43 | 26°46'19 27°44'47 | 18°38 0 ₹ 30 | 13°56 15°35 | 20° 5 21°16 | 13°49 14°34 | 17° 3 17°17 | 3°13 3°18 | 16°38 16°41 | 22°44 22°45 | 11°28 11°28 | 9°23 9°20 | 8°33 8°30 | 4°24 4°31 | 17°38 17°41 | T 16 W17 |
| T 18 | 13 43 43 | 27 44 47 28°43'14 | 12°28 | 13 33 17° 9 | 21 10 22°27 | 14 34 15°20 | 17 17 17°31 | 3°23 | 16°45 | 22°46 | 11°29 | 9°17 | 8°27 | 4°37 | 17°45 | T 18 |
| F 19 | 13 51 36 | 29°41'39 | 24°33 | 18°40 | 23°39 | 16° 6 | 17°45 | 3°27 | 16°48 | 22°47 | 11°30 | 9°14 | 8°24 | 4°44 | 17°49 | F 19 |
| S 20 | 13 55 33 | 0840'03 | 6 ප් 49 | 20° 6 | 24°50 | 16°51 | 17°59 | 3°32 | 16°51 | 22°49 | 11°30 | 9°11 | 8°21 | 4°51 | 17°53 | S 20 |
| | 13 59 29 | 1°38'24 | 19°19 | 21°27 | 26° 1 | | 18°12 | 3°37 | 16°55 | 22°50 | 11°31 | 9°10 | 8°18 | 4°57 | 17°56 | S 21 |
| S 21 M22 | 13 39 29 | 2°36'45 | 19°19 2 ≈ 8 | 21°27 22°44 | 20° 1 | 17°37 18°23 | 18°12 18°26 | 3°42 | 16°53 | 22°51 | 11°31 | 9°D 9 | 8°14 | 5° 4 | 1/°56 18° 0 | M22 |
| T 23 | 14 7 22 | 3°35'03 | 2≈ 8 15°18 | 23°57 | 28°24 | 18 23 19° 8 | 18°40 | 3°47 | 10 38 17° 1 | 22°52 | 11°32 | 9°10 | 8°11 | 5°11 | 18° 3 | T 23 |
| W24 | 14 11 19 | 4°33'20 | 28°53 | 25° 5 | 29°36 | 19°54 | 18°54 | 3°52 | 17° 5 | 22°53 | 11°33 | 9°11 | 8° 8 | 5°17 | 18° 7 | W24 |
| T 25 | 14 15 15 | 5°31'36 | 12) 53 | 26° 7 | $0\Upsilon47$ | 20°39 | 19° 8 | 3°58 | 17° 8 | 22°54 | 11°34 | 9°12 | 8° 5 | 5°24 | 18°11 | T 25 |
| F 26 | 14 19 12 | 6°29'50 | 27°19 | 27° 5 | 1°59 | 21°24 | 19°22 | 4° 3 | 17°11 | 22°55 | 11°34 | 9°13 | 8° 2 | 5°31 | 18°14 | F 26 |
| S 27 | 14 23 9 | 7°28'03 | 12 ° 7 | 27°58 | 3°11 | 22°10 | 19°36 | 4° 8 | 17°14 | 22°56 | 11°35 | 9°R14 | 7°58 | 5°37 | 18°18 | S 27 |
| S 28 | 14 27 5 | 8°26'14 | 27°12 | 28°46 | 4°22 | 22°55 | 19°50 | 4°14 | 17°18 | 22°57 | 11°36 | 9°13 | 7°55 | 5°44 | 18°21 | S 28 |
| M29 | 14 31 2 | 9°24'23 | 12825 | 29°29 | 5°34 | 23°40 | 20° 4 | 4°19 | 17°21 | 22°57 | 11°37 | 9°10 | 7°52 | 5°51 | 18°25 | M29 |
| T 30 | 14 34 58 | 10822'31 | 27 8 37 | OI 7 | 6 Υ 46 | 24 Y 25 | 20818 | 4925 | 17 Y 24 | 22≈58 | 11938 | 9 ₾ 7 | 7 ≙ 49 | 5 M 57 | 18 Y 28 | T 30 |

Delta T = 23.52 sec

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| W 1 | 14 38 55 | 11820'37 | 12∏38 | 0Д40 | 7 ℃ 57 | 25 Y 10 | 20832 | 4931 | 17 Y 27 | 22≈59 | 11938 | 9°R 2 | 7 ≏ 46 | 6M 4 | 18 Y 32 | W 1 |
| T 2 | 14 42 51 | 12°18'41 | 27°18 | 1° 7 | 9° 9 | 25°55 | 20°47 | 4°36 | 17°31 | 23° 0 | 11°39 | 8 ≏ 58 | 7°43 | 6°11 | 18°35 | T 2 |
| F 3 | 14 46 48 | 13°16'43 | 119933 | 1°29 | 10°21 | 26°40 | 21° 1 | 4°42 | 17°34 | 23° 1 | 11°40 | 8°54 | 7°39 | 6°17 | 18°39 | F 3 |
| S 4 | 14 50 44 | 14°14'43 | 25°20 | 1°46 | 11°33 | 27°25 | 21°15 | 4°48 | 17°37 | 23° 1 | 11°41 | 8°51 | 7°36 | 6°24 | 18°42 | S 4 |
| S 5 | 14 54 41 | 15°12'42 | 8 Ω 39 | 1°58 | 12°44 | 28°10 | 21°29 | 4°54 | 17°40 | 23° 2 | 11°42 | 8°49 | 7°33 | 6°31 | 18°46 | S 5 |
| M 6 | 14 58 38 | 16°10'38 | 21°32 | 2° 5 | 13°56 | 28°55 | 21°43 | 5° 0 | 17°43 | 23° 3 | 11°43 | 8°D49 | 7°30 | 6°37 | 18°49 | M 6 |
| T 7 | 15 2 34 | 17° 8'33 | 4Mp 3 | 2°R 7 | 15° 8 | 29°40 | 21°57 | 5° 6 | 17°46 | 23° 3 | 11°44 | 8°50 | 7°27 | 6°44 | 18°53 | T 7 |
| W 8 | 15 631 | 18° 6'26 | 16°18 | 2° 3 | 16°20 | 0 8 25 | 22°11 | 5°12 | 17°50 | 23° 4 | 11°45 | 8°52 | 7°24 | 6°51 | 18°56 | W 8 |
| T 9 | 15 10 27 | 19° 4'17 | 28°20 | 1°55 | 17°32 | 1° 9 | 22°25 | 5°18 | 17°53 | 23° 4 | 11°46 | 8°53 | 7°20 | 6°57 | 18°59 | T 9 |
| F 10 | 15 14 24 | 20° 2'06 | 10 ≏ 13 | 1°43 | 18°44 | 1°54 | 22°39 | 5°25 | 17°56 | 23° 5 | 11°47 | 8°R54 | 7°17 | 7° 4 | 19° 3 | F 10 |
| S 11 | 15 18 20 | 20°59'54 | 22° 2 | 1°26 | 19°56 | 2°39 | 22°54 | 5°31 | 17°59 | 23° 5 | 11°48 | 8°53 | 7°14 | 7°11 | 19° 6 | S 11 |
| S 12 | 15 22 17 | 21°57'40 | 3 M .50 | 1° 6 | 21° 7 | 3°23 | 23° 8 | 5°37 | 18° 2 | 23° 6 | 11°49 | 8°50 | 7°11 | 7°17 | 19° 9 | S 12 |
| M13 | 15 26 13 | 22°55'25 | 15°39 | 0°42 | 22°19 | 4° 8 | 23°22 | 5°44 | 18° 5 | 23° 6 | 11°50 | 8°45 | 7° 8 | 7°24 | 19°12 | M13 |
| T 14 | 15 30 10 | 23°53'08 | 27°32 | 0°15 | 23°31 | 4°52 | 23°36 | 5°50 | 18° 8 | 23° 7 | 11°51 | 8°38 | 7° 4 | 7°31 | 19°16 | T 14 |
| W15 | 15 34 7 | 24°50'50 | 9 . ₹31 | 29 8 45 | 24°43 | 5°37 | 23°50 | 5°57 | 18°10 | 23° 7 | 11°52 | 8°30 | 7° 1 | 7°37 | 19°19 | W15 |
| T 16 | 15 38 3 | 25°48'31 | 21°36 | 29°13 | 25°56 | 6°21 | 24° 4 | 6° 3 | 18°13 | 23° 7 | 11°53 | 8°21 | 6°58 | 7°44 | 19°22 | T 16 |
| F 17 | 15 42 0 | 26°46'11 | 3 る 50 | 28°40 | 27° 8 | 7° 5 | 24°18 | 6°10 | 18°16 | 23° 7 | 11°55 | 8°13 | 6°55 | 7°51 | 19°25 | F 17 |
| S 18 | 15 45 56 | 27°43'49 | 16°15 | 28° 6 | 28°20 | 7°49 | 24°33 | 6°16 | 18°19 | 23° 8 | 11°56 | 8° 5 | 6°52 | 7°57 | 19°28 | S 18 |
| S 19 | 15 49 53 | 28°41'27 | 28°51 | 27°32 | 29°32 | 8°33 | 24°47 | 6°23 | 18°22 | 23° 8 | 11°57 | 7°59 | 6°49 | 8° 4 | 19°31 | S 19 |
| M20 | 15 53 49 | 29°39'03 | 11 ≈ 43 | 26°58 | 0 8 44 | 9°18 | 25° 1 | 6°30 | 18°25 | 23° 8 | 11°58 | 7°56 | 6°45 | 8°11 | 19°34 | M20 |
| T 21 | 15 57 46 | 0耳36′38 | 24°51 | 26°25 | 1°56 | 10° 2 | 25°15 | 6°37 | 18°27 | 23° 8 | 11°59 | 7°D54 | 6°42 | 8°17 | 19°37 | T 21 |
| W22 | 16 1 42 | 1°34'13 | 8) 19 | 25°53 | 3° 8 | 10°46 | 25°29 | 6°44 | 18°30 | 23° 8 | 12° 1 | 7°54 | 6°39 | 8°24 | 19°40 | W22 |
| T 23 | 16 5 39 | 2°31'46 | 22° 8 | 25°24 | 4°20 | 11°30 | 25°43 | 6°50 | 18°33 | 23° 8 | 12° 2 | 7°55 | 6°36 | 8°31 | 19°43 | T 23 |
| F 24 | 16 9 36 | 3°29'19 | 6 Υ 20 | 24°56 | 5°33 | 12°14 | 25°57 | 6°57 | 18°36 | 23° 9 | 12° 3 | 7°R56 | 6°33 | 8°37 | 19°46 | F 24 |
| S 25 | 16 13 32 | 4°26'51 | 20°54 | 24°32 | 6°45 | 12°57 | 26°11 | 7° 4 | 18°38 | 23°R 9 | 12° 4 | 7°55 | 6°29 | 8°44 | 19°49 | S 25 |
| S 26 | 16 17 29 | 5°24'22 | 5 8 46 | 24°11 | 7°57 | 13°41 | 26°25 | 7°11 | 18°41 | 23° 9 | 12° 6 | 7°52 | 6°26 | 8°51 | 19°52 | S 26 |
| M27 | 16 21 25 | 6°21'53 | 20°50 | 23°54 | 9°10 | 14°25 | 26°39 | 7°18 | 18°43 | 23° 8 | 12° 7 | 7°47 | 6°23 | 8°57 | 19°55 | M27 |
| T 28 | 16 25 22 | 7°19'22 | 5 Ⅱ 57 | 23°40 | 10°22 | 15° 9 | 26°53 | 7°26 | 18°46 | 23° 8 | 12° 8 | 7°40 | 6°20 | 9° 4 | 19°58 | T 28 |
| W29 | 16 29 18 | 8°16'50 | 20°57 | 23°31 | 11°34 | 15°52 | 27° 7 | 7°33 | 18°48 | 23° 8 | 12°10 | 7°31 | 6°17 | 9°11 | 20° 0 | W29 |
| T 30 | 16 33 15 | 9°14'18 | 59541 | 23°26 | 12°47 | 16°36 | 27°21 | 7°40 | 18°51 | 23° 8 | 12°11 | 7°22 | 6°14 | 9°17 | 20° 3 | T 30 |
| F 31 | 16 37 11 | 10 Ⅱ 11'44 | 2099 2 | 23°D25 | 13 8 59 | 17 8 19 | 27 8 35 | 79547 | 18 Y 53 | 23≈ 8 | 129512 | 7 ≏ 13 | 6 ₽ 10 | 9 m 24 | 20 Y 6 | F 31 |

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| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)f(| ¥ | В | V | ಬ | Ç | ę, | Day |
|------|----------|-------------------|----------------|----------------|----------------|---------------|---------------|--------|----------------|--------|--------|---------------|---------------|----------------|---------------|------|
| S 1 | 16 41 8 | 11 II 9'09 | 3 Ω 55 | 23 8 28 | 15 8 11 | 18 8 3 | 27849 | 7954 | 18 Y 56 | 23°R 8 | 129614 | 7°R 6 | 6 요 7 | 9 M 31 | 20 Y 8 | S 1 |
| S 2 | 16 45 5 | 12° 6'33 | 17°18 | 23°37 | 16°24 | 18°46 | 28° 3 | 8° 2 | 18°58 | 23≈ 8 | 12°15 | 7 º 2 | 6° 4 | 9°37 | 20°11 | S 2 |
| M 3 | 16 49 1 | 13° 3'56 | 0 m 15 | 23°49 | 17°36 | 19°29 | 28°17 | 8° 9 | 19° 0 | 23° 7 | 12°16 | 6°59 | 6° 1 | 9°44 | 20°14 | M 3 |
| T 4 | 16 52 58 | 14° 1'18 | 12°48 | 24° 6 | 18°49 | 20°13 | 28°31 | 8°16 | 19° 3 | 23° 7 | 12°18 | 6°D58 | 5°58 | 9°51 | 20°16 | T 4 |
| W 5 | 16 56 54 | 14°58'39 | 25° 2 | 24°28 | 20° 1 | 20°56 | 28°45 | 8°24 | 19° 5 | 23° 7 | 12°19 | 6°58 | 5°55 | 9°57 | 20°19 | W 5 |
| T 6 | 17 0 51 | 15°55'58 | 7 ♀ 2 | 24°54 | 21°13 | 21°39 | 28°58 | 8°31 | 19° 7 | 23° 6 | 12°20 | 6°R59 | 5°51 | 10° 4 | 20°21 | T 6 |
| F 7 | 17 4 47 | 16°53'17 | 18°53 | 25°24 | 22°26 | 22°22 | 29°12 | 8°39 | 19° 9 | 23° 6 | 12°22 | 6°58 | 5°48 | 10°11 | 20°24 | F 7 |
| S 8 | 17 8 44 | 17°50'35 | 0 M .41 | 25°59 | 23°38 | 23° 5 | 29°26 | 8°46 | 19°12 | 23° 5 | 12°23 | 6°56 | 5°45 | 10°17 | 20°26 | S 8 |
| S 9 | 17 12 40 | 18°47'52 | 12°30 | 26°38 | 24°51 | 23°48 | 29°40 | 8°54 | 19°14 | 23° 5 | 12°25 | 6°51 | 5°42 | 10°24 | 20°28 | S 9 |
| M10 | 17 16 37 | 19°45'08 | 24°22 | 27°21 | 26° 3 | 24°31 | 29°53 | 9° 1 | 19°16 | 23° 5 | 12°26 | 6°43 | 5°39 | 10°31 | 20°30 | M10 |
| T 11 | 17 20 34 | 20°42'23 | 6 ₹ 22 | 28° 8 | 27°16 | 25°14 | 0 Π 7 | 9° 9 | 19°18 | 23° 4 | 12°28 | 6°33 | 5°35 | 10°37 | 20°33 | T 11 |
| W12 | 17 24 30 | 21°39'38 | 18°30 | 28°59 | 28°29 | 25°57 | 0°20 | 9°16 | 19°20 | 23° 3 | 12°29 | 6°21 | 5°32 | 10°44 | 20°35 | W12 |
| T 13 | 17 28 27 | 22°36'53 | 0 궁 47 | 29°53 | 29°41 | 26°40 | 0°34 | 9°24 | 19°22 | 23° 3 | 12°31 | 6° 8 | 5°29 | 10°51 | 20°37 | T 13 |
| F 14 | 17 32 23 | 23°34'07 | 13°16 | 0 Ⅱ 52 | 0 Ⅱ 54 | 27°22 | 0°48 | 9°31 | 19°24 | 23° 2 | 12°32 | 5°56 | 5°26 | 10°57 | 20°39 | F 14 |
| S 15 | 17 36 20 | 24°31'20 | 25°55 | 1°55 | 2° 7 | 28° 5 | 1° 1 | 9°39 | 19°26 | 23° 2 | 12°34 | 5°45 | 5°23 | 11° 4 | 20°41 | S 15 |
| S 16 | 17 40 16 | 25°28'33 | 8≈45 | 3° 1 | 3°19 | 28°48 | 1°15 | 9°47 | 19°27 | 23° 1 | 12°35 | 5°36 | 5°20 | 11°11 | 20°43 | S 16 |
| M17 | 17 44 13 | 26°25'46 | 21°47 | 4°11 | 4°32 | 29°30 | 1°28 | 9°54 | 19°29 | 23° 0 | 12°37 | 5°29 | 5°16 | 11°17 | 20°45 | M17 |
| T 18 | 17 48 9 | 27°22'59 | 5) € 2 | 5°24 | 5°45 | 0Ⅱ12 | 1°41 | 10° 2 | 19°31 | 23° 0 | 12°38 | 5°26 | 5°13 | 11°24 | 20°47 | T 18 |
| W19 | 17 52 6 | 28°20'12 | 18°32 | 6°41 | 6°57 | 0°55 | 1°55 | 10°10 | 19°33 | 22°59 | 12°40 | 5°24 | 5°10 | 11°31 | 20°49 | W19 |
| T 20 | 17 56 3 | 29°17'24 | 2 Υ 17 | 8° 2 | 8°10 | 1°37 | 2° 8 | 10°18 | 19°34 | 22°58 | 12°41 | 5°24 | 5° 7 | 11°37 | 20°51 | T 20 |
| F 21 | 17 59 59 | 09514'37 | 16°19 | 9°26 | 9°23 | 2°20 | 2°21 | 10°25 | 19°36 | 22°57 | 12°43 | 5°24 | 5° 4 | 11°44 | 20°53 | F 21 |
| S 22 | 18 3 56 | 1°11'50 | 0 8 38 | 10°54 | 10°36 | 3° 2 | 2°34 | 10°33 | 19°38 | 22°56 | 12°44 | 5°23 | 5° 1 | 11°51 | 20°54 | S 22 |
| S 23 | 18 7 52 | 2° 9'03 | 15°11 | 12°25 | 11°49 | 3°44 | 2°48 | 10°41 | 19°39 | 22°56 | 12°46 | 5°19 | 4°57 | 11°57 | 20°56 | S 23 |
| M24 | 18 11 49 | 3° 6'16 | 29°55 | 13°59 | 13° 1 | 4°26 | 3° 1 | 10°49 | 19°41 | 22°55 | 12°47 | 5°13 | 4°54 | 12° 4 | 20°58 | M24 |
| T 25 | 18 15 45 | 4° 3'29 | 14∏44 | 15°36 | 14°14 | 5° 8 | 3°14 | 10°56 | 19°42 | 22°54 | 12°49 | 5° 4 | 4°51 | 12°11 | 20°59 | T 25 |
| W26 | 18 19 42 | 5° 0'42 | 29°28 | 17°17 | 15°27 | 5°50 | 3°27 | 11° 4 | 19°44 | 22°53 | 12°50 | 4°53 | 4°48 | 12°17 | 21° 1 | W26 |
| T 27 | 18 23 38 | 5°57'55 | 1495 1 | 19° 1 | 16°40 | 6°32 | 3°40 | 11°12 | 19°45 | 22°52 | 12°52 | 4°42 | 4°45 | 12°24 | 21° 2 | T 27 |
| F 28 | 18 27 35 | 6°55'08 | 28°15 | 20°49 | 17°53 | 7°14 | 3°53 | 11°20 | 19°46 | 22°51 | 12°53 | 4°31 | 4°41 | 12°31 | 21° 4 | F 28 |
| S 29 | 18 31 32 | 7°52'20 | 12 N 5 | 22°39 | 19° 6 | 7°56 | 4° 5 | 11°27 | 19°48 | 22°50 | 12°55 | 4°22 | 4°38 | 12°37 | 21° 5 | S 29 |
| S 30 | 18 35 28 | 89649'33 | 25 Ω 29 | 24∏32 | 20 耳 19 | 8 Ⅱ 38 | 4 Ⅱ 18 | 119935 | 19 Ƴ 49 | 22≈49 | 12957 | 4 ≙ 15 | 4 ≏ 35 | 12 M 44 | 21 Y 7 | S 30 |

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|------|----------|------------------|-----------------|----------------|-------|----------------|----------------|--------|----------------|--------|--------|---------------|---------------|-----------------|----------------|------|
| M 1 | 18 39 25 | 99546'45 | 8 Mp 26 | 26Ⅲ27 | 21∏32 | 9 Ⅱ 19 | 4 Ⅲ 31 | 119543 | 19 Y 50 | 22°R48 | 12958 | 4°R11 | 4 ₽ 32 | 12 M .51 | 21 ° 8 | M 1 |
| T 2 | 18 43 21 | 10°43'57 | 21° 1 | 28°25 | 22°45 | 10° 1 | 4°44 | 11°51 | 19°51 | 22≈47 | 13° 0 | 4 º 9 | 4°29 | 12°57 | 21° 9 | T 2 |
| W 3 | 18 47 18 | 11°41'09 | 3 ₽ 16 | 0ණ26 | 23°58 | 10°43 | 4°56 | 11°59 | 19°52 | 22°45 | 13° 1 | 4°D 8 | 4°26 | 13° 4 | 21°10 | W 3 |
| T 4 | 18 51 14 | 12°38'21 | 15°17 | 2°28 | 25°11 | 11°24 | 5° 9 | 12° 7 | 19°53 | 22°44 | 13° 3 | 4°R 8 | 4°22 | 13°11 | 21°12 | T 4 |
| F 5 | 18 55 11 | 13°35'32 | 27°10 | 4°32 | 26°25 | 12° 5 | 5°21 | 12°14 | 19°54 | 22°43 | 13° 4 | 4° 8 | 4°19 | 13°18 | 21°13 | F 5 |
| S 6 | 18 59 7 | 14°32'44 | 8 M .59 | 6°38 | 27°38 | 12°47 | 5°34 | 12°22 | 19°55 | 22°42 | 13° 6 | 4° 6 | 4°16 | 13°24 | 21°14 | S 6 |
| S 7 | 19 3 4 | 15°29'56 | 20°50 | 8°45 | 28°51 | 13°28 | 5°46 | 12°30 | 19°56 | 22°41 | 13° 7 | 4° 1 | 4°13 | 13°31 | 21°15 | S 7 |
| M 8 | 19 7 1 | 16°27'08 | 2 , 747 | 10°53 | 0 | 14° 9 | 5°58 | 12°38 | 19°57 | 22°40 | 13° 9 | 3°54 | 4°10 | 13°38 | 21°16 | M 8 |
| T 9 | 19 10 57 | 17°24'19 | 14°53 | 13° 2 | 1°17 | 14°51 | 6°10 | 12°46 | 19°58 | 22°38 | 13°11 | 3°45 | 4° 7 | 13°44 | 21°16 | T 9 |
| W10 | 19 14 54 | 18°21'32 | 27°11 | 15°11 | 2°30 | 15°32 | 6°23 | 12°53 | 19°58 | 22°37 | 13°12 | 3°33 | 4° 3 | 13°51 | 21°17 | W10 |
| T 11 | 19 18 50 | 19°18'44 | 9 궁 42 | 17°19 | 3°44 | 16°13 | 6°35 | 13° 1 | 19°59 | 22°36 | 13°14 | 3°21 | 4° 0 | 13°58 | 21°18 | T 11 |
| F 12 | 19 22 47 | 20°15'57 | 22°27 | 19°28 | 4°57 | 16°54 | 6°47 | 13° 9 | 20° 0 | 22°34 | 13°15 | 3° 9 | 3°57 | 14° 4 | 21°19 | F 12 |
| S 13 | 19 26 43 | 21°13'10 | 5≈25 | 21°36 | 6°10 | 17°35 | 6°59 | 13°17 | 20° 0 | 22°33 | 13°17 | 2°58 | 3°54 | 14°11 | 21°19 | S 13 |
| S 14 | 19 30 40 | 22°10'24 | 18°35 | 23°44 | 7°24 | 18°16 | 7°10 | 13°25 | 20° 1 | 22°32 | 13°18 | 2°49 | 3°51 | 14°18 | 21°20 | S 14 |
| M15 | 19 34 37 | 23° 7'38 | 1) (57 | 25°50 | 8°37 | 18°57 | 7°22 | 13°32 | 20° 2 | 22°30 | 13°20 | 2°43 | 3°47 | 14°24 | 21°21 | M15 |
| T 16 | 19 38 33 | 24° 4'53 | 15°29 | 27°55 | 9°50 | 19°38 | 7°34 | 13°40 | 20° 2 | 22°29 | 13°21 | 2°40 | 3°44 | 14°31 | 21°21 | T 16 |
| W17 | 19 42 30 | 25° 2'08 | 29°10 | 29°59 | 11° 4 | 20°18 | 7°46 | 13°48 | 20° 2 | 22°28 | 13°23 | 2°D39 | 3°41 | 14°38 | 21°22 | W17 |
| T 18 | 19 46 26 | 25°59'25 | 13 ° 2 | 2 N 3 | 12°17 | 20°59 | 7°57 | 13°55 | 20° 3 | 22°26 | 13°24 | 2°39 | 3°38 | 14°44 | 21°22 | T 18 |
| F 19 | 19 50 23 | 26°56'42 | 27° 3 | 4° 4 | 13°31 | 21°40 | 8° 9 | 14° 3 | 20° 3 | 22°25 | 13°26 | 2°R39 | 3°35 | 14°51 | 21°22 | F 19 |
| S 20 | 19 54 19 | 27°54'01 | 11813 | 6° 4 | 14°44 | 22°20 | 8°20 | 14°11 | 20° 3 | 22°23 | 13°27 | 2°39 | 3°32 | 14°58 | 21°23 | S 20 |
| S 21 | 19 58 16 | 28°51'20 | 25°30 | 8° 3 | 15°58 | 23° 1 | 8°31 | 14°18 | 20° 4 | 22°22 | 13°29 | 2°36 | 3°28 | 15° 4 | 21°23 | S 21 |
| M22 | 20 2 12 | 29°48'41 | 9 Ⅲ 53 | 9°59 | 17°11 | 23°41 | 8°42 | 14°26 | 20° 4 | 22°20 | 13°30 | 2°31 | 3°25 | 15°11 | 21°23 | M22 |
| T 23 | 20 6 9 | $0\Omega 46'02$ | 24°17 | 11°55 | 18°25 | 24°21 | 8°53 | 14°34 | 20° 4 | 22°19 | 13°32 | 2°24 | 3°22 | 15°18 | 21°23 | T 23 |
| W24 | 20 10 6 | 1°43'25 | 8936 | 13°48 | 19°39 | 25° 2 | 9° 4 | 14°41 | 20° 4 | 22°17 | 13°33 | 2°15 | 3°19 | 15°24 | 21°23 | W24 |
| T 25 | 20 14 2 | 2°40'48 | 22°47 | 15°40 | 20°52 | 25°42 | 9°15 | 14°49 | 20°R 4 | 22°16 | 13°35 | 2° 6 | 3°16 | 15°31 | 21°R23 | T 25 |
| F 26 | 20 17 59 | 3°38'13 | 6 Ω 42 | 17°30 | 22° 6 | 26°22 | 9°26 | 14°57 | 20° 4 | 22°14 | 13°36 | 1°57 | 3°13 | 15°38 | 21°23 | F 26 |
| S 27 | 20 21 55 | 4°35'38 | 20°18 | 19°19 | 23°20 | 27° 2 | 9°37 | 15° 4 | 20° 4 | 22°13 | 13°38 | 1°49 | 3° 9 | 15°44 | 21°23 | S 27 |
| S 28 | 20 25 52 | 5°33'04 | 3 m 32 | 21° 6 | 24°33 | 27°42 | 9°48 | 15°12 | 20° 4 | 22°11 | 13°39 | 1°43 | 3° 6 | 15°51 | 21°23 | S 28 |
| M29 | 20 29 48 | 6°30'30 | 16°25 | 22°51 | 25°47 | 28°22 | 9°58 | 15°19 | 20° 4 | 22°10 | 13°41 | 1°40 | 3° 3 | 15°58 | 21°23 | M29 |
| T 30 | 20 33 45 | 7°27'58 | 28°57 | 24°35 | 27° 1 | 29° 2 | 10° 9 | 15°27 | 20° 3 | 22° 8 | 13°42 | 1°D39 | 3° 0 | 16° 4 | 21°22 | T 30 |
| W31 | 20 37 41 | 8 Ω 25'26 | 11 ≏ 12 | 26 Ω 17 | 28915 | 29 Ⅱ 42 | 10 Ⅱ 19 | 15934 | 20 ° 3 | 22≈ 7 | 139544 | 1 ≏ 39 | 2 ≏ 57 | 16 M .11 | 21 Y 22 | W31 |

Delta T = 23.38 sec

Greg. Calendar

AUGUST 1680 GC 00:00 UT

| Day | Sid.t | 0 | D | Ψ | · | S | 4 | ħ | ᡟ | ¥ | Р | S. | ය | Ç | ę, | Day |
|------|----------|--------------------|------------------|-----------------|---------------|----------------|----------------|--------|----------------|---------------|--------|---------------|---------------|-----------------|----------------|------|
| T 1 | 20 41 38 | 9 Ω 22'55 | 23 ≏ 14 | 27 Ω 58 | 299528 | 09522 | 10 Ⅱ 29 | 159541 | 20°R 3 | 22°R 5 | 139545 | 1 ≏ 40 | 2 ₾ 53 | 16 M .18 | 21°R22 | T 1 |
| F 2 | 20 45 34 | 10°20'24 | 5 M 8 | 29°37 | 0 Ω 42 | 1° 2 | 10°39 | 15°49 | 20 Y 2 | 22 ∞ 4 | 13°47 | 1°R41 | 2°50 | 16°25 | 21 Y 21 | F 2 |
| S 3 | 20 49 31 | 11°17'55 | 16°59 | 1 m) 14 | 1°56 | 1°42 | 10°49 | 15°56 | 20° 2 | 22° 2 | 13°48 | 1°41 | 2°47 | 16°31 | 21°21 | S 3 |
| S 4 | 20 53 28 | 12°15'26 | 28°51 | 2°50 | 3°10 | 2°21 | 10°59 | 16° 3 | 20° 2 | 22° 0 | 13°49 | 1°39 | 2°44 | 16°38 | 21°20 | S 4 |
| M 5 | 20 57 24 | 13°12'58 | 10 × 751 | 4°24 | 4°24 | 3° 1 | 11° 9 | 16°11 | 20° 1 | 21°59 | 13°51 | 1°36 | 2°41 | 16°45 | 21°19 | M 5 |
| T 6 | 21 1 21 | 14°10'32 | 23° 1 | 5°56 | 5°38 | 3°40 | 11°19 | 16°18 | 20° 0 | 21°57 | 13°52 | 1°31 | 2°38 | 16°51 | 21°19 | T 6 |
| W 7 | 21 5 17 | 15° 8'06 | 5 る 26 | 7°27 | 6°52 | 4°20 | 11°28 | 16°25 | 20° 0 | 21°55 | 13°54 | 1°24 | 2°34 | 16°58 | 21°18 | W 7 |
| T 8 | 21 9 14 | 16° 5'41 | 18° 8 | 8°57 | 8° 6 | 4°59 | 11°38 | 16°32 | 19°59 | 21°54 | 13°55 | 1°16 | 2°31 | 17° 5 | 21°17 | T 8 |
| F 9 | 21 13 10 | 17° 3'17 | 1≈ 7 | 10°25 | 9°20 | 5°38 | 11°47 | 16°39 | 19°59 | 21°52 | 13°56 | 1° 8 | 2°28 | 17°11 | 21°17 | F 9 |
| S 10 | 21 17 7 | 18° 0'55 | 14°24 | 11°51 | 10°34 | 6°18 | 11°56 | 16°46 | 19°58 | 21°51 | 13°58 | 1° 2 | 2°25 | 17°18 | 21°16 | S 10 |
| S 11 | 21 21 3 | 18°58'33 | 27°56 | 13°15 | 11°48 | 6°57 | 12° 5 | 16°54 | 19°57 | 21°49 | 13°59 | 0°56 | 2°22 | 17°25 | 21°15 | S 11 |
| M12 | 21 25 0 | 19°56'13 | 11) (42 | 14°38 | 13° 2 | 7°36 | 12°14 | 17° 1 | 19°56 | 21°47 | 14° 0 | 0°53 | 2°18 | 17°31 | 21°14 | M12 |
| T 13 | 21 28 57 | 20°53'55 | 25°38 | 15°59 | 14°16 | 8°15 | 12°23 | 17° 8 | 19°55 | 21°46 | 14° 2 | 0°D51 | 2°15 | 17°38 | 21°13 | T 13 |
| W14 | 21 32 53 | 21°51'38 | 9 Ƴ 42 | 17°18 | 15°30 | 8°54 | 12°32 | 17°14 | 19°54 | 21°44 | 14° 3 | 0°51 | 2°12 | 17°45 | 21°12 | W14 |
| T 15 | 21 36 50 | 22°49'22 | 23°51 | 18°36 | 16°44 | 9°33 | 12°41 | 17°21 | 19°53 | 21°42 | 14° 4 | 0°53 | 2° 9 | 17°51 | 21°11 | T 15 |
| F 16 | 21 40 46 | 23°47'09 | 8 8 2 | 19°51 | 17°59 | 10°12 | 12°49 | 17°28 | 19°52 | 21°41 | 14° 5 | 0°54 | 2° 6 | 17°58 | 21° 9 | F 16 |
| S 17 | 21 44 43 | 24°44'57 | 22°14 | 21° 5 | 19°13 | 10°50 | 12°57 | 17°35 | 19°51 | 21°39 | 14° 7 | 0°R55 | 2° 3 | 18° 5 | 21° 8 | S 17 |
| S 18 | 21 48 39 | 25°42'47 | 6Ⅱ24 | 22°17 | 20°27 | 11°29 | 13° 6 | 17°42 | 19°50 | 21°37 | 14° 8 | 0°54 | 1°59 | 18°11 | 21° 7 | S 18 |
| M19 | 21 52 36 | 26°40'38 | 20°31 | 23°27 | 21°41 | 12° 8 | 13°14 | 17°48 | 19°49 | 21°36 | 14° 9 | 0°52 | 1°56 | 18°18 | 21° 6 | M19 |
| T 20 | 21 56 32 | 27°38'32 | 4933 | 24°34 | 22°56 | 12°46 | 13°22 | 17°55 | 19°48 | 21°34 | 14°10 | 0°49 | 1°53 | 18°25 | 21° 4 | T 20 |
| W21 | 22 0 29 | 28°36'27 | 18°27 | 25°40 | 24°10 | 13°25 | 13°29 | 18° 2 | 19°47 | 21°33 | 14°11 | 0°45 | 1°50 | 18°32 | 21° 3 | W21 |
| T 22 | 22 4 26 | 29°34'24 | 2 Ω 10 | 26°43 | 25°24 | 14° 3 | 13°37 | 18° 8 | 19°45 | 21°31 | 14°13 | 0°40 | 1°47 | 18°38 | 21° 1 | T 22 |
| F 23 | 22 8 22 | 0 m 32'23 | 15°39 | 27°43 | 26°39 | 14°42 | 13°45 | 18°15 | 19°44 | 21°29 | 14°14 | 0°35 | 1°44 | 18°45 | 21° 0 | F 23 |
| S 24 | 22 12 19 | 1°30'23 | 28°54 | 28°41 | 27°53 | 15°20 | 13°52 | 18°21 | 19°43 | 21°28 | 14°15 | 0°31 | 1°40 | 18°52 | 20°58 | S 24 |
| S 25 | 22 16 15 | 2°28'25 | 11 M p51 | 29°37 | 29° 7 | 15°58 | 13°59 | 18°28 | 19°41 | 21°26 | 14°16 | 0°29 | 1°37 | 18°58 | 20°57 | S 25 |
| M26 | 22 20 12 | 3°26'28 | 24°32 | 0 ჲ 29 | 0 Mp 22 | 16°37 | 14° 6 | 18°34 | 19°40 | 21°24 | 14°17 | 0°D27 | 1°34 | 19° 5 | 20°55 | M26 |
| T 27 | 22 24 8 | 4°24'33 | 6 ≏ 57 | 1°18 | 1°36 | 17°15 | 14°13 | 18°40 | 19°38 | 21°23 | 14°18 | 0°27 | 1°31 | 19°12 | 20°53 | T 27 |
| W28 | 22 28 5 | 5°22'40 | 19° 9 | 2° 4 | 2°51 | 17°53 | 14°20 | 18°46 | 19°37 | 21°21 | 14°19 | 0°28 | 1°28 | 19°18 | 20°51 | W28 |
| T 29 | 22 32 1 | 6°20'48 | 1 M 9 | 2°47 | 4° 5 | 18°31 | 14°27 | 18°52 | 19°35 | 21°20 | 14°20 | 0°30 | 1°24 | 19°25 | 20°50 | T 29 |
| F 30 | 22 35 58 | 7°18'57 | 13° 2 | 3°25 | 5°20 | 19° 9 | 14°33 | 18°59 | 19°34 | 21°18 | 14°21 | 0°32 | 1°21 | 19°32 | 20°48 | F 30 |
| S 31 | 22 39 55 | 8 m) 17'08 | 24M53 | 4 ♀ 0 | 6 m 34 | 19 © 47 | 14∏40 | 1995 5 | 19 Y 32 | 21≈17 | 149522 | ე ჲ 33 | 1 ≏ 18 | 19 M .38 | 20 Υ 46 | S 31 |

Delta T = 23.33 sec

SEPTEMBER 1680 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | P | ♂ | 4 | ħ |)∤(| 并 | Р | 'n | v | ţ | ę o | Day |
|------|----------|--------------------|----------------|----------------|----------------|--------------|-------|--------|----------------|--------|--------|---------------|----------------|-----------------|----------------|------|
| S 1 | 22 43 51 | 9 m) 15'21 | 6 ₹ 46 | 4 ₽ 30 | 7 m 49 | 209524 | 14∏46 | 199511 | 19°R30 | 21°R15 | 149523 | 0°R34 | 1 ≏ 15 | 19 M .45 | 20°R44 | S 1 |
| M 2 | 22 47 48 | 10°13'35 | 18°45 | 4°56 | 9° 3 | 21° 2 | 14°52 | 19°16 | 19 Υ 29 | 21≈14 | 14°24 | ე ჲ 33 | 1°12 | 19°52 | 20 Y 42 | M 2 |
| T 3 | 22 51 44 | 11°11'51 | 0 궁 56 | 5°17 | 10°18 | 21°40 | 14°58 | 19°22 | 19°27 | 21°12 | 14°25 | 0°32 | 1° 9 | 19°58 | 20°40 | T 3 |
| W 4 | 22 55 41 | 12°10'08 | 13°22 | 5°32 | 11°32 | 22°17 | 15° 3 | 19°28 | 19°25 | 21°11 | 14°26 | 0°30 | 1° 5 | 20° 5 | 20°38 | W 4 |
| T 5 | 22 59 37 | 13° 8'27 | 26° 8 | 5°43 | 12°47 | 22°55 | 15° 9 | 19°34 | 19°23 | 21° 9 | 14°27 | 0°28 | 1° 2 | 20°12 | 20°36 | T 5 |
| F 6 | 23 3 34 | 14° 6'47 | 9≈14 | 5°R47 | 14° 1 | 23°32 | 15°14 | 19°39 | 19°22 | 21° 8 | 14°28 | 0°26 | 0°59 | 20°19 | 20°34 | F 6 |
| S 7 | 23 7 30 | 15° 5'09 | 22°43 | 5°45 | 15°16 | 24° 9 | 15°19 | 19°45 | 19°20 | 21° 6 | 14°29 | 0°23 | 0°56 | 20°25 | 20°31 | S 7 |
| S 8 | 23 11 27 | 16° 3'33 | 6) €34 | 5°37 | 16°31 | 24°47 | 15°24 | 19°50 | 19°18 | 21° 5 | 14°30 | 0°22 | 0°53 | 20°32 | 20°29 | S 8 |
| M 9 | 23 15 24 | 17° 1'58 | 20°42 | 5°22 | 17°45 | 25°24 | 15°29 | 19°56 | 19°16 | 21° 3 | 14°31 | 0°21 | 0°50 | 20°39 | 20°27 | M 9 |
| T 10 | 23 19 20 | 18° 0'26 | 5 ℃ 4 | 5° 0 | 19° 0 | 26° 1 | 15°34 | 20° 1 | 19°14 | 21° 2 | 14°31 | 0°D21 | 0°46 | 20°45 | 20°25 | T 10 |
| W11 | 23 23 17 | 18°58'55 | 19°36 | 4°31 | 20°15 | 26°38 | 15°38 | 20° 6 | 19°12 | 21° 0 | 14°32 | 0°21 | 0°43 | 20°52 | 20°22 | W11 |
| T 12 | 23 27 13 | 19°57'27 | 4810 | 3°56 | 21°29 | 27°15 | 15°43 | 20°12 | 19°10 | 20°59 | 14°33 | 0°22 | 0°40 | 20°59 | 20°20 | T 12 |
| F 13 | 23 31 10 | 20°56'00 | 18°42 | 3°14 | 22°44 | 27°52 | 15°47 | 20°17 | 19° 8 | 20°58 | 14°34 | 0°23 | 0°37 | 21° 5 | 20°18 | F 13 |
| S 14 | 23 35 6 | 21°54'36 | 3 II 7 | 2°25 | 23°59 | 28°29 | 15°51 | 20°22 | 19° 6 | 20°56 | 14°34 | 0°24 | 0°34 | 21°12 | 20°15 | S 14 |
| S 15 | 23 39 3 | 22°53'15 | 17°22 | 1°31 | 25°13 | 29° 5 | 15°55 | 20°27 | 19° 4 | 20°55 | 14°35 | 0°R24 | 0°30 | 21°19 | 20°13 | S 15 |
| M16 | 23 42 59 | 23°51'55 | 19524 | 0°33 | 26°28 | 29°42 | 15°58 | 20°32 | 19° 2 | 20°54 | 14°36 | 0°24 | 0°27 | 21°25 | 20°10 | M16 |
| T 17 | 23 46 56 | 24°50'38 | 15°12 | 29 m 30 | 27°43 | $0\Omega 18$ | 16° 2 | 20°37 | 18°59 | 20°52 | 14°37 | 0°24 | 0°24 | 21°32 | 20° 8 | T 17 |
| W18 | 23 50 52 | 25°49'23 | 28°45 | 28°25 | 28°58 | 0°55 | 16° 5 | 20°41 | 18°57 | 20°51 | 14°37 | 0°23 | 0°21 | 21°39 | 20° 5 | W18 |
| T 19 | 23 54 49 | 26°48'11 | 12 N 4 | 27°20 | 0 ჲ 12 | 1°31 | 16° 8 | 20°46 | 18°55 | 20°50 | 14°38 | 0°23 | 0°18 | 21°46 | 20° 3 | T 19 |
| F 20 | 23 58 46 | 27°47'00 | 25° 9 | 26°14 | 1°27 | 2° 8 | 16°11 | 20°50 | 18°53 | 20°49 | 14°38 | 0°22 | 0°15 | 21°52 | 20° 0 | F 20 |
| S 21 | 0 2 42 | 28°45'52 | 8MD 0 | 25°11 | 2°42 | 2°44 | 16°14 | 20°55 | 18°51 | 20°47 | 14°39 | 0°22 | 0°11 | 21°59 | 19°58 | S 21 |
| S 22 | 0 639 | 29°44'45 | 20°37 | 24°12 | 3°57 | 3°20 | 16°16 | 20°59 | 18°48 | 20°46 | 14°40 | 0°22 | 0° 8 | 22° 6 | 19°55 | S 22 |
| M23 | 0 10 35 | 0 ჲ 43'41 | 3 ₾ 3 | 23°19 | 5°12 | 3°56 | 16°18 | 21° 4 | 18°46 | 20°45 | 14°40 | 0°22 | 0° 5 | 22°12 | 19°52 | M23 |
| T 24 | 0 14 32 | 1°42'39 | 15°17 | 22°33 | 6°26 | 4°32 | 16°20 | 21° 8 | 18°44 | 20°44 | 14°41 | 0°22 | 0° 2 | 22°19 | 19°50 | T 24 |
| W25 | 0 18 28 | 2°41'39 | 27°21 | 21°55 | 7°41 | 5° 8 | 16°22 | 21°12 | 18°41 | 20°43 | 14°41 | 0°22 | 29 m 59 | 22°26 | 19°47 | W25 |
| T 26 | 0 22 25 | 3°40'41 | 9 ™ .18 | 21°26 | 8°56 | 5°44 | 16°24 | 21°16 | 18°39 | 20°42 | 14°42 | 0°22 | 29°55 | 22°32 | 19°44 | T 26 |
| F 27 | 0 26 21 | 4°39'44 | 21°10 | 21° 7 | 10°11 | 6°20 | 16°25 | 21°20 | 18°37 | 20°40 | 14°42 | 0°21 | 29°52 | 22°39 | 19°41 | F 27 |
| S 28 | 0 30 18 | 5°38'50 | 3 ₹ 0 | 20°D58 | 11°26 | 6°55 | 16°27 | 21°24 | 18°34 | 20°39 | 14°42 | 0°20 | 29°49 | 22°46 | 19°39 | S 28 |
| S 29 | 0 34 15 | 6°37'57 | 14°51 | 21° 0 | 12°41 | 7°31 | 16°28 | 21°28 | 18°32 | 20°38 | 14°43 | 0°20 | 29°46 | 22°52 | 19°36 | S 29 |
| M30 | 0 38 11 | 7 △ 37'06 | 26 ₹ 49 | 21 Mp 12 | 13 ≏ 56 | 8 N 6 | 16耳29 | 219931 | 18 Y 30 | 20≈37 | 149543 | 0 ჲ 19 | 29 m 43 | 22 M 59 | 19 Ƴ 33 | M30 |

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Greg. Calendar

| OCTOBER 1680 GC | 00:00 UT |
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| Day | Sid.t | 0 | D | Ψ | · | ♂ | 4 | ħ | ᡟ | 并 | Р | ß | ಬ | Ç | ę, | Day |
|------|---------|------------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|--------|--------|----------------|----------|-------|----------------|------|
| T 1 | 0 42 8 | 8 ჲ 36'18 | 8 궁 57 | 21 Mp 35 | 15 ≏ 11 | 8 Ω 42 | 16耳30 | 21935 | 18°R27 | 20°R36 | 149544 | 0°D19 | 29 Mp 40 | 23M 6 | 19°R30 | T 1 |
| W 2 | 0 46 4 | 9°35'30 | 21°20 | 22° 7 | 16°25 | 9°17 | 16°30 | 21°38 | 18 Y 25 | 20≈35 | 14°44 | 0 ჲ 19 | 29°36 | 23°13 | 19 Y 28 | W 2 |
| T 3 | 0 50 1 | 10°34'45 | 4≈ 2 | 22°48 | 17°40 | 9°52 | 16°30 | 21°42 | 18°22 | 20°35 | 14°44 | 0°20 | 29°33 | 23°19 | 19°25 | T 3 |
| F 4 | 0 53 57 | 11°34'01 | 17° 7 | 23°38 | 18°55 | 10°27 | 16°R30 | 21°45 | 18°20 | 20°34 | 14°44 | 0°21 | 29°30 | 23°26 | 19°22 | F 4 |
| S 5 | 0 57 54 | 12°33'20 | 0) €38 | 24°36 | 20°10 | 11° 2 | 16°30 | 21°48 | 18°18 | 20°33 | 14°45 | 0°22 | 29°27 | 23°33 | 19°19 | S 5 |
| S 6 | 1 1 50 | 13°32'40 | 14°34 | 25°41 | 21°25 | 11°37 | 16°30 | 21°51 | 18°15 | 20°32 | 14°45 | 0°23 | 29°24 | 23°39 | 19°16 | S 6 |
| M 7 | 1 5 47 | 14°32'01 | 28°55 | 26°51 | 22°40 | 12°12 | 16°30 | 21°54 | 18°13 | 20°31 | 14°45 | 0°R23 | 29°21 | 23°46 | 19°13 | M 7 |
| T 8 | 1 9 43 | 15°31'25 | 13 Y 36 | 28° 8 | 23°55 | 12°46 | 16°29 | 21°57 | 18°10 | 20°30 | 14°45 | 0°23 | 29°17 | 23°53 | 19°11 | T 8 |
| W 9 | 1 13 40 | 16°30'51 | 28°31 | 29°29 | 25°10 | 13°21 | 16°28 | 22° 0 | 18° 8 | 20°30 | 14°45 | 0°22 | 29°14 | 23°59 | 19° 8 | W 9 |
| T 10 | 1 17 37 | 17°30'19 | 13 8 32 | 0 ჲ 54 | 26°25 | 13°55 | 16°27 | 22° 3 | 18° 5 | 20°29 | 14°46 | 0°20 | 29°11 | 24° 6 | 19° 5 | T 10 |
| F 11 | 1 21 33 | 18°29'49 | 28°30 | 2°22 | 27°40 | 14°30 | 16°26 | 22° 5 | 18° 3 | 20°28 | 14°46 | 0°18 | 29° 8 | 24°13 | 19° 2 | F 11 |
| S 12 | 1 25 30 | 19°29'22 | 13 Ⅱ 16 | 3°54 | 28°55 | 15° 4 | 16°24 | 22° 8 | 18° 1 | 20°28 | 14°46 | 0°15 | 29° 5 | 24°19 | 18°59 | S 12 |
| S 13 | 1 29 26 | 20°28'57 | 27°46 | 5°27 | OM 9 | 15°38 | 16°22 | 22°10 | 17°58 | 20°27 | 14°46 | 0°13 | 29° 1 | 24°26 | 18°56 | S 13 |
| M14 | 1 33 23 | 21°28'34 | 11954 | 7° 3 | 1°24 | 16°12 | 16°21 | 22°12 | 17°56 | 20°26 | 14°46 | 0°12 | 28°58 | 24°33 | 18°53 | M14 |
| T 15 | 1 37 19 | 22°28'14 | 25°40 | 8°40 | 2°39 | 16°46 | 16°18 | 22°15 | 17°53 | 20°26 | 14°R46 | 0°D12 | 28°55 | 24°40 | 18°50 | T 15 |
| W16 | 1 41 16 | 23°27'56 | 9Ω 4 | 10°19 | 3°54 | 17°20 | 16°16 | 22°17 | 17°51 | 20°25 | 14°46 | 0°13 | 28°52 | 24°46 | 18°48 | W16 |
| T 17 | 1 45 12 | 24°27'40 | 22° 8 | 11°58 | 5° 9 | 17°54 | 16°14 | 22°19 | 17°48 | 20°25 | 14°46 | 0°14 | 28°49 | 24°53 | 18°45 | T 17 |
| F 18 | 1 49 9 | 25°27'26 | 4 Mp 55 | 13°38 | 6°24 | 18°27 | 16°11 | 22°20 | 17°46 | 20°24 | 14°46 | 0°16 | 28°46 | 25° 0 | 18°42 | F 18 |
| S 19 | 1 53 6 | 26°27'15 | 17°27 | 15°18 | 7°39 | 19° 1 | 16° 8 | 22°22 | 17°44 | 20°24 | 14°46 | 0°17 | 28°42 | 25° 6 | 18°39 | S 19 |
| S 20 | 1 57 2 | 27°27'05 | 29°47 | 16°59 | 8°54 | 19°34 | 16° 5 | 22°24 | 17°41 | 20°23 | 14°46 | 0°R18 | 28°39 | 25°13 | 18°36 | S 20 |
| M21 | 2 0 59 | 28°26'58 | 11 ≏ 57 | 18°40 | 10° 9 | 20° 7 | 16° 2 | 22°25 | 17°39 | 20°23 | 14°45 | 0°17 | 28°36 | 25°20 | 18°33 | M21 |
| T 22 | 2 4 55 | 29°26'53 | 24° 0 | 20°21 | 11°24 | 20°41 | 15°58 | 22°27 | 17°36 | 20°23 | 14°45 | 0°15 | 28°33 | 25°26 | 18°31 | T 22 |
| W23 | 2 8 52 | 0M26'50 | 5 M 57 | 22° 2 | 12°39 | 21°14 | 15°55 | 22°28 | 17°34 | 20°22 | 14°45 | 0°11 | 28°30 | 25°33 | 18°28 | W23 |
| T 24 | 2 12 48 | 1°26'48 | 17°50 | 23°42 | 13°54 | 21°46 | 15°51 | 22°29 | 17°32 | 20°22 | 14°45 | 0° 6 | 28°26 | 25°40 | 18°25 | T 24 |
| F 25 | 2 16 45 | 2°26'49 | 29°40 | 25°23 | 15° 9 | 22°19 | 15°47 | 22°30 | 17°29 | 20°22 | 14°45 | 0° 0 | 28°23 | 25°47 | 18°22 | F 25 |
| S 26 | 2 20 41 | 3°26'51 | 11 × 30 | 27° 3 | 16°24 | 22°52 | 15°43 | 22°31 | 17°27 | 20°22 | 14°44 | 29 m 54 | 28°20 | 25°53 | 18°19 | S 26 |
| S 27 | 2 24 38 | 4°26'56 | 23°23 | 28°43 | 17°39 | 23°24 | 15°38 | 22°32 | 17°25 | 20°21 | 14°44 | 29°48 | 28°17 | 26° 0 | 18°17 | S 27 |
| M28 | 2 28 35 | 5°27'01 | 5 云 20 | 0ML22 | 18°54 | 23°57 | 15°34 | 22°33 | 17°22 | 20°21 | 14°44 | 29°43 | 28°14 | 26° 7 | 18°14 | M28 |
| T 29 | 2 32 31 | 6°27'09 | 17°27 | 2° 1 | 20° 9 | 24°29 | 15°29 | 22°33 | 17°20 | 20°21 | 14°43 | 29°39 | 28°11 | 26°13 | 18°11 | T 29 |
| W30 | 2 36 28 | 7°27'18 | 29°46 | 3°40 | 21°24 | 25° 1 | 15°24 | 22°34 | 17°18 | 20°21 | 14°43 | 29°38 | 28° 7 | 26°20 | 18° 9 | W30 |
| T 31 | 2 40 24 | 8M27'29 | 12 ≈ 21 | 5 M .18 | 22M39 | 25 Ω 33 | 15 Ⅱ 19 | 22934 | 17 Y 16 | 20≈21 | 149543 | 29°D37 | 28M) 4 | 26M27 | 18 Y 6 | T 31 |

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NOVEMBER 1680 GC 00:00 UT

| Day | Sid.t | 0 | D | Ψ | Q+ | ♂ | 4 | ħ | ᡟ | 并 | В | ₽. | S | Ç | ę, | Day |
|------|---------|-------------------|-----------------|----------------|----------------|-----------------|-----------------|--------|----------------|--------|--------|----------------|----------------|----------------|---------------|------|
| F 1 | 2 44 21 | 9 M 27'41 | 25≈19 | 6 M .56 | 23 M 54 | 26 Ω 5 | 15°R14 | 22935 | 17°R13 | 20°D21 | 14°R42 | 29 m 38 | 28 Mp 1 | 26M33 | 18°R 3 | F 1 |
| S 2 | 2 48 17 | 10°27'54 | 8) (41 | 8°34 | 25° 9 | 26°36 | 15 I I 8 | 22°35 | 17 Y 11 | 20≈21 | 149542 | 29°40 | 27°58 | 26°40 | 18 Ƴ 1 | S 2 |
| S 3 | 2 52 14 | 11°28'09 | 22°31 | 10°11 | 26°24 | 27° 8 | 15° 3 | 22°R35 | 17° 9 | 20°21 | 14°41 | 29°R41 | 27°55 | 26°47 | 17°58 | S 3 |
| M 4 | 2 56 10 | 12°28'26 | 6 Ƴ 49 | 11°48 | 27°39 | 27°39 | 14°57 | 22°35 | 17° 7 | 20°21 | 14°41 | 29°41 | 27°52 | 26°54 | 17°56 | M 4 |
| T 5 | 3 0 7 | 13°28'44 | 21°33 | 13°24 | 28°54 | 28°10 | 14°51 | 22°35 | 17° 5 | 20°21 | 14°40 | 29°39 | 27°48 | 27° 0 | 17°53 | T 5 |
| W 6 | 3 4 4 | 14°29'04 | 6 8 38 | 15° 0 | 0 才 9 | 28°41 | 14°45 | 22°34 | 17° 3 | 20°22 | 14°40 | 29°35 | 27°45 | 27° 7 | 17°51 | W 6 |
| T 7 | 3 8 0 | 15°29'25 | 21°55 | 16°36 | 1°24 | 29°12 | 14°39 | 22°34 | 17° 1 | 20°22 | 14°39 | 29°29 | 27°42 | 27°14 | 17°48 | T 7 |
| F 8 | 3 11 57 | 16°29'49 | 7 Ⅱ 12 | 18°11 | 2°38 | 29°43 | 14°32 | 22°33 | 16°59 | 20°22 | 14°39 | 29°22 | 27°39 | 27°20 | 17°46 | F 8 |
| S 9 | 3 15 53 | 17°30'14 | 22°20 | 19°47 | 3°53 | 0 m 13 | 14°26 | 22°33 | 16°57 | 20°22 | 14°38 | 29°15 | 27°36 | 27°27 | 17°43 | S 9 |
| S 10 | 3 19 50 | 18°30'41 | 795 8 | 21°21 | 5° 8 | 0°44 | 14°19 | 22°32 | 16°55 | 20°23 | 14°38 | 29° 8 | 27°32 | 27°34 | 17°41 | S 10 |
| M11 | 3 23 46 | 19°31'09 | 21°31 | 22°56 | 6°23 | 1°14 | 14°13 | 22°31 | 16°53 | 20°23 | 14°37 | 29° 3 | 27°29 | 27°41 | 17°38 | M11 |
| T 12 | 3 27 43 | 20°31'40 | 5 Ω 25 | 24°30 | 7°38 | 1°44 | 14° 6 | 22°30 | 16°51 | 20°23 | 14°36 | 28°59 | 27°26 | 27°47 | 17°36 | T 12 |
| W13 | 3 31 39 | 21°32'12 | 18°52 | 26° 4 | 8°53 | 2°14 | 13°59 | 22°29 | 16°49 | 20°24 | 14°36 | 28°D58 | 27°23 | 27°54 | 17°34 | W13 |
| T 14 | 3 35 36 | 22°32'46 | 1 m 52 | 27°38 | 10° 8 | 2°44 | 13°52 | 22°28 | 16°47 | 20°24 | 14°35 | 28°58 | 27°20 | 28° 1 | 17°32 | T 14 |
| F 15 | 3 39 33 | 23°33'22 | 14°31 | 29°12 | 11°23 | 3°13 | 13°44 | 22°27 | 16°45 | 20°25 | 14°34 | 28°59 | 27°17 | 28° 7 | 17°29 | F 15 |
| S 16 | 3 43 29 | 24°34'00 | 26°53 | 0 ≯ 46 | 12°38 | 3°42 | 13°37 | 22°25 | 16°43 | 20°25 | 14°33 | 29°R 0 | 27°13 | 28°14 | 17°27 | S 16 |
| S 17 | 3 47 26 | 25°34'39 | 9 ₾ 2 | 2°19 | 13°53 | 4°12 | 13°30 | 22°24 | 16°42 | 20°26 | 14°33 | 29° 0 | 27°10 | 28°21 | 17°25 | S 17 |
| M18 | 3 51 22 | 26°35'20 | 21° 2 | 3°52 | 15° 8 | 4°41 | 13°22 | 22°22 | 16°40 | 20°26 | 14°32 | 28°57 | 27° 7 | 28°27 | 17°23 | M18 |
| T 19 | 3 55 19 | 27°36'03 | 2ML56 | 5°25 | 16°23 | 5° 9 | 13°15 | 22°21 | 16°38 | 20°27 | 14°31 | 28°52 | 27° 4 | 28°34 | 17°21 | T 19 |
| W20 | 3 59 15 | 28°36'47 | 14°47 | 6°58 | 17°38 | 5°38 | 13° 7 | 22°19 | 16°37 | 20°27 | 14°30 | 28°44 | 27° 1 | 28°41 | 17°19 | W20 |
| T 21 | 4 3 12 | 29°37'32 | 26°38 | 8°31 | 18°53 | 6° 6 | 12°59 | 22°17 | 16°35 | 20°28 | 14°30 | 28°33 | 26°58 | 28°48 | 17°17 | T 21 |
| F 22 | 4 7 8 | 0 ₮ 38'19 | 8 ₹ 29 | 10° 3 | 20° 8 | 6°34 | 12°51 | 22°15 | 16°33 | 20°29 | 14°29 | 28°21 | 26°54 | 28°54 | 17°15 | F 22 |
| S 23 | 4 11 5 | 1°39'07 | 20°23 | 11°36 | 21°23 | 7° 2 | 12°44 | 22°13 | 16°32 | 20°30 | 14°28 | 28° 8 | 26°51 | 29° 1 | 17°13 | S 23 |
| S 24 | 4 15 2 | 2°39'57 | 2 る 20 | 13° 8 | 22°37 | 7°30 | 12°36 | 22°10 | 16°30 | 20°30 | 14°27 | 27°56 | 26°48 | 29° 8 | 17°12 | S 24 |
| M25 | 4 18 58 | 3°40'47 | 14°22 | 14°40 | 23°52 | 7°57 | 12°28 | 22° 8 | 16°29 | 20°31 | 14°26 | 27°44 | 26°45 | 29°14 | 17°10 | M25 |
| T 26 | 4 22 55 | 4°41'38 | 26°32 | 16°12 | 25° 7 | 8°25 | 12°20 | 22° 6 | 16°28 | 20°32 | 14°25 | 27°36 | 26°42 | 29°21 | 17° 8 | T 26 |
| W27 | 4 26 51 | 5°42'31 | 8≈52 | 17°44 | 26°22 | 8°52 | 12°11 | 22° 3 | 16°26 | 20°33 | 14°24 | 27°30 | 26°38 | 29°28 | 17° 6 | W27 |
| T 28 | 4 30 48 | 6°43'24 | 21°26 | 19°16 | 27°37 | 9°18 | 12° 3 | 22° 0 | 16°25 | 20°34 | 14°23 | 27°26 | 26°35 | 29°35 | 17° 5 | T 28 |
| F 29 | 4 34 44 | 7°44'18 | 4) (17 | 20°47 | 28°52 | 9°45 | 11°55 | 21°58 | 16°24 | 20°35 | 14°22 | 27°D25 | 26°32 | 29°41 | 17° 3 | F 29 |
| S 30 | 4 38 41 | 8 ∡ 145'13 | 17) (30 | 22 × 19 | 0중 7 | 10 m)11 | 11 Ⅱ 47 | 21955 | 16 ℃ 22 | 20≈36 | 149521 | 27 m 25 | 26 m 29 | 29 M 48 | 17 Υ 2 | S 30 |

Delta T = 23.19 sec

Greg. Calendar

| DECEMBER 1680 GC | 00:00 UT |
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| DELEMBER 1000 GL | 00:00 01 |

| Day | Sid.t | 0 | 9 | φ | Q + | ♂ | 4 | ħ | ᡟ | ¥ | Р | ß | Ω | Ç | ٧٥ | Day |
|------|---------|-------------------|-----------------|-----------------|---------------|----------------|----------------|--------|----------------|-------|--------|----------|----------|----------------|----------------|------|
| S 1 | 4 42 37 | 9 ∡ ¹46′08 | 1 Υ 7 | 23 × 750 | 1 る 22 | 10 m 37 | 11°R39 | 21°R52 | 16°R21 | 20≈37 | 14°R20 | 27°R25 | 26M)26 | 29 M 55 | 17°R 0 | S 1 |
| M 2 | 4 46 34 | 10°47'04 | 15°12 | 25°20 | 2°36 | 11° 3 | 11 Ⅲ 31 | 219549 | 16 Y 20 | 20°38 | 149519 | 27 Mp 24 | 26°23 | 0 才 1 | 16 Y 59 | M 2 |
| T 3 | 4 50 31 | 11°48'01 | 29°44 | 26°51 | 3°51 | 11°28 | 11°23 | 21°46 | 16°19 | 20°39 | 14°18 | 27°21 | 26°19 | 0° 8 | 16°57 | T 3 |
| W 4 | 4 54 27 | 12°48'59 | 14840 | 28°20 | 5° 6 | 11°54 | 11°14 | 21°42 | 16°18 | 20°40 | 14°17 | 27°15 | 26°16 | 0°15 | 16°56 | W 4 |
| T 5 | 4 58 24 | 13°49'57 | 29°53 | 29°50 | 6°21 | 12°19 | 11° 6 | 21°39 | 16°17 | 20°41 | 14°16 | 27° 6 | 26°13 | 0°21 | 16°55 | T 5 |
| F 6 | 5 2 20 | 14°50'57 | 15 Ⅱ 13 | 1 궁 19 | 7°36 | 12°43 | 10°58 | 21°36 | 16°16 | 20°42 | 14°15 | 26°55 | 26°10 | 0°28 | 16°54 | F 6 |
| S 7 | 5 6 17 | 15°51'57 | 0ණ28 | 2°47 | 8°51 | 13° 8 | 10°50 | 21°32 | 16°15 | 20°43 | 14°14 | 26°44 | 26° 7 | 0°35 | 16°52 | S 7 |
| S 8 | 5 10 13 | 16°52'58 | 15°28 | 4°14 | 10° 5 | 13°32 | 10°42 | 21°29 | 16°14 | 20°45 | 14°13 | 26°33 | 26° 4 | 0°42 | 16°51 | S 8 |
| M 9 | 5 14 10 | 17°54'00 | 0Ω 3 | 5°40 | 11°20 | 13°56 | 10°34 | 21°25 | 16°13 | 20°46 | 14°12 | 26°24 | 26° 0 | 0°48 | 16°50 | M 9 |
| T 10 | 5 18 6 | 18°55'03 | 14° 9 | 7° 4 | 12°35 | 14°19 | 10°26 | 21°21 | 16°13 | 20°47 | 14°11 | 26°17 | 25°57 | 0°55 | 16°49 | T 10 |
| W11 | 5 22 3 | 19°56'06 | 27°45 | 8°28 | 13°50 | 14°43 | 10°18 | 21°18 | 16°12 | 20°48 | 14° 9 | 26°14 | 25°54 | 1° 2 | 16°48 | W11 |
| T 12 | 5 26 0 | 20°57'11 | 10 m 51 | 9°49 | 15° 4 | 15° 6 | 10°10 | 21°14 | 16°11 | 20°50 | 14° 8 | 26°12 | 25°51 | 1° 8 | 16°47 | T 12 |
| F 13 | 5 29 56 | 21°58'16 | 23°32 | 11° 9 | 16°19 | 15°28 | 10° 2 | 21°10 | 16°11 | 20°51 | 14° 7 | 26°12 | 25°48 | 1°15 | 16°47 | F 13 |
| S 14 | 5 33 53 | 22°59'23 | 5 ≏ 53 | 12°26 | 17°34 | 15°51 | 9°54 | 21° 6 | 16°10 | 20°52 | 14° 6 | 26°12 | 25°44 | 1°22 | 16°46 | S 14 |
| S 15 | 5 37 49 | 24° 0'30 | 17°59 | 13°40 | 18°48 | 16°12 | 9°47 | 21° 2 | 16°10 | 20°54 | 14° 5 | 26°10 | 25°41 | 1°29 | 16°45 | S 15 |
| M16 | 5 41 46 | 25° 1'38 | 29°55 | 14°51 | 20° 3 | 16°34 | 9°39 | 20°58 | 16° 9 | 20°55 | 14° 4 | 26° 7 | 25°38 | 1°35 | 16°44 | M16 |
| T 17 | 5 45 42 | 26° 2'46 | 11 M .45 | 15°58 | 21°18 | 16°55 | 9°31 | 20°53 | 16° 9 | 20°57 | 14° 2 | 26° 0 | 25°35 | 1°42 | 16°44 | T 17 |
| W18 | 5 49 39 | 27° 3'56 | 23°34 | 17° 1 | 22°33 | 17°16 | 9°24 | 20°49 | 16° 8 | 20°58 | 14° 1 | 25°51 | 25°32 | 1°49 | 16°43 | W18 |
| T 19 | 5 53 35 | 28° 5'06 | 5 ₹ 25 | 17°58 | 23°47 | 17°37 | 9°16 | 20°45 | 16° 8 | 21° 0 | 14° 0 | 25°39 | 25°29 | 1°55 | 16°43 | T 19 |
| F 20 | 5 57 32 | 29° 6'16 | 17°19 | 18°50 | 25° 2 | 17°57 | 9° 9 | 20°40 | 16° 8 | 21° 1 | 13°59 | 25°24 | 25°25 | 2° 2 | 16°42 | F 20 |
| S 21 | 6 1 29 | 0궁 7'27 | 29°19 | 19°35 | 26°16 | 18°17 | 9° 2 | 20°36 | 16° 8 | 21° 3 | 13°58 | 25° 9 | 25°22 | 2° 9 | 16°42 | S 21 |
| S 22 | 6 5 25 | 1° 8'38 | 11 る 25 | 20°12 | 27°31 | 18°36 | 8°55 | 20°32 | 16° 7 | 21° 5 | 13°56 | 24°54 | 25°19 | 2°16 | 16°42 | S 22 |
| M23 | 6 9 22 | 2° 9'49 | 23°38 | 20°41 | 28°46 | 18°55 | 8°48 | 20°27 | 16° 7 | 21° 6 | 13°55 | 24°41 | 25°16 | 2°22 | 16°41 | M23 |
| T 24 | 6 13 18 | 3°11'00 | 5≈59 | 21° 0 | 0≈ 0 | 19°14 | 8°41 | 20°22 | 16°D 7 | 21° 8 | 13°54 | 24°30 | 25°13 | 2°29 | 16°41 | T 24 |
| W25 | 6 17 15 | 4°12'11 | 18°29 | 21°R 9 | 1°15 | 19°32 | 8°35 | 20°18 | 16° 7 | 21° 9 | 13°53 | 24°23 | 25°10 | 2°36 | 16°41 | W25 |
| T 26 | 6 21 11 | 5°13'22 | 1 米 10 | 21° 7 | 2°29 | 19°49 | 8°28 | 20°13 | 16° 7 | 21°11 | 13°51 | 24°18 | 25° 6 | 2°42 | 16°41 | T 26 |
| F 27 | 6 25 8 | 6°14'33 | 14° 5 | 20°53 | 3°44 | 20° 7 | 8°22 | 20° 8 | 16° 7 | 21°13 | 13°50 | 24°16 | 25° 3 | 2°49 | 16°D41 | F 27 |
| S 28 | 6 29 4 | 7°15'44 | 27°16 | 20°27 | 4°58 | 20°24 | 8°15 | 20° 4 | 16° 8 | 21°15 | 13°49 | 24°D16 | 25° 0 | 2°56 | 16°41 | S 28 |
| S 29 | 6 33 1 | 8°16'54 | 10 Y 47 | 19°50 | 6°13 | 20°40 | 8° 9 | 19°59 | 16° 8 | 21°16 | 13°48 | 24°R16 | 24°57 | 3° 3 | 16°41 | S 29 |
| M30 | 6 36 58 | 9°18'04 | 24°39 | 19° 2 | 7°27 | 20°56 | 8° 3 | 19°54 | 16° 8 | 21°18 | 13°46 | 24°15 | 24°54 | 3° 9 | 16°41 | M30 |
| T 31 | 6 40 54 | 10る19'14 | 8 8 53 | 18 궁 3 | 8≈41 | 21 Mp 11 | 7 Ⅱ 57 | 199549 | 16 ℃ 8 | 21≈20 | 139945 | 24 Mp 12 | 24 Mp 50 | 3 ∡ 16 | 16 Υ 41 | T 31 |

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JANUARY 1681 GC 00:00 UT

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|--------------|--------------------|-------------------------------|------------------------|------------------------|---------------------|---------------------------|--------------------|-----------------|----------------|-------------------------|----------------|--------------------------|---------------------------|-------------------|----------------|--------------|
| W 1 | 6 44 51 | 11る20'23 | 23829 | 16°R55 | 9≈56 | 21 Mp 26 | 7°R52 | 19°R44 | 16 Y 9 | 21≈22 | 13°R44 | 24°R 7 | 24 Mp 47 | 3 ₹ 23 | 16 Y 42 | W 1 |
| T 2 | 6 48 47 | 12°21'33 | 8 Ⅱ 22 | 15 る 41 | 11°10 | 21°41 | 7 Ⅱ 46 | 19 95 40 | 16° 9 | 21°24 | 139543 | 23 m 59 | 24°44 | 3°29 | 16°42 | T 2 |
| F 3 | 6 52 44 | 13°22'41 | 23°24 | 14°22 | 12°24 | 21°55 | 7°41 | 19°35 | 16°10 | 21°26 | 13°41 | 23°49 | 24°41 | 3°36 | 16°42 | F 3 |
| S 4 | 6 56 40 | 14°23'50 | 8927 | 13° 2 | 13°39 | 22° 8 | 7°36 | 19°30 | 16°10 | 21°27 | 13°40 | 23°38 | 24°38 | 3°43 | 16°43 | S 4 |
| S 5 | 7 0 37 | 15°24'58 | 23°20 | 11°43 | 14°53 | 22°21 | 7°31 | 19°25 | 16°11 | 21°29 | 13°39 | 23°27 | 24°35 | 3°50 | 16°43 | S 5 |
| M 6 | 7 4 34 | 16°26'05 | 7 Ω 55 | 10°26 | 16° 7 | 22°33 | 7°26 | 19°20 | 16°11 | 21°31 | 13°37 | 23°18 | 24°31 | 3°56 | 16°44 | M 6 |
| T 7 | 7 8 30 | 17°27'13 | 22° 5 | 9°15 | 17°21 | 22°45 | 7°21 | 19°15 | 16°12 | 21°33 | 13°36 | 23°12 | 24°28 | 4° 3 | 16°45 | T 7 |
| W 8 | 7 12 27 | 18°28'20 | 5 Mp 46 | 8°12 | 18°35 | 22°57 | 7°17 | 19°10 | 16°13 | 21°35 | 13°35 | 23° 8 | 24°25 | 4°10 | 16°45 | W 8 |
| T 9 | 7 16 23 | 19°29'27 | 19° 0 | 7°16 | 19°50 | 23° 7 | 7°12 | 19° 5 | 16°14 | 21°37 | 13°34 | 23°D 7 | 24°22 | 4°16 | 16°46 | T 9 |
| F 10 | 7 20 20 | 20°30'34 | 1 ≏ 47 | 6°30 | 21° 4 | 23°18 | 7° 8 | 19° 0 | 16°14 | 21°39 | 13°32 | 23° 7 | 24°19 | 4°23 | 16°47 | F 10 |
| S 11 | 7 24 16 | 21°31'41 | 14°13 | 5°53 | 22°18 | 23°27 | 7° 4 | 18°55 | 16°15 | 21°41 | 13°31 | 23° 7 | 24°16 | 4°30 | 16°48 | S 11 |
| S 12 | 7 28 13 | 22°32'47 | 26°22 | 5°26 | 23°32 | 23°36 | 7° 0 | 18°50 | 16°16 | 21°43 | 13°30 | 23°R 8 | 24°12 | 4°37 | 16°49 | S 12 |
| M13 | 7 32 9 | 23°33'53 | 8 M .19 | 5° 8 | 24°46 | 23°45 | 6°57 | 18°45 | 16°17 | 21°45 | 13°29 | 23° 6 | 24° 9 | 4°43 | 16°50 | M13 |
| T 14 | 7 36 6 | 24°34'59 | 20°11 | 4°59 | 25°59 | 23°52 | 6°54 | 18°40 | 16°18 | 21°47 | 13°27 | 23° 3 | 24° 6 | 4°50 | 16°51 | T 14 |
| W15 | 7 40 3 | 25°36'04 | 2 🗷 1 | 4°D59 | 27°13 | 23°59 | 6°50 | 18°35 | 16°19 | 21°50 | 13°26 | 22°57 | 24° 3 | 4°57 | 16°52 | W15 |
| T 16 | 7 43 59 | 26°37'09 | 13°53 | 5° 7 | 28°27 | 24° 6 | 6°47 | 18°31 | 16°20 | 21°52 | 13°25 | 22°48 | 24° 0 | 5° 3 | 16°53 | T 16 |
| F 17 | 7 47 56 | 27°38'14 28°39'17 | 25°51 | 5°22 | 29°41 | 24°12 | 6°45 6°42 | 18°26 18°21 | 16°22 | 21°54 | 13°24 | 22°38 | 23°56 | 5°10 | 16°54 | F 17 |
| S 18 | 7 51 52 | | 7 る 58 | 5°44 | 0 ¥ 55 | 24°17 | | _ | 16°23 | 21°56 | 13°22 | 22°27 | 23°53 | 5°17 | 16°55 | S 18 |
| S 19 | 7 55 49 | 29°40'21 | 20°14 | 6°12 | 2° 8 | 24°21 | 6°40 | 18°16 | 16°24 | 21°58 | 13°21 | 22°17 | 23°50 | 5°24 | 16°57 | S 19 |
| M20 | 7 59 45 | 0≈41'23 | 2≈41 | 6°45 | 3°22 | 24°25 | 6°37 | 18°11 | 16°25 | 22° 0 | 13°20 | 22° 7 | 23°47 | 5°30 | 16°58 | M20 |
| T 21 | 8 3 42 | 1°42'25 | 15°18 | 7°24 | 4°36 | 24°28 | 6°35 | 18° 6 | 16°27 | 22° 2 | 13°19 | 21°59 | 23°44 | 5°37 | 16°59 | T 21 |
| W22 | 8 7 38 | 2°43'25 | 28° 7 | 8° 8 | 5°49 | 24°30 | 6°34 | 18° 2 | 16°28 | 22° 4 22° 7 | 13°18 | 21°54 | 23°41 | 5°44 | 17° 1 | W22 |
| T 23 F 24 | 8 11 35 8 15 32 | 3°44'24 4°45'23 | 11 米 6 24°17 | 8°55 9°47 | 7° 3 8°16 | 24°32 24°33 | 6°32 6°31 | 17°57 17°52 | 16°30 16°31 | 22° 7 22° 9 | 13°16 13°15 | 21°51 21°D51 | 23°37 23°34 | 5°50 5°57 | 17° 2 17° 4 | T 23 F 24 |
| S 25 | 8 19 28 | 5°46'20 | 24 17 7 Υ 41 | 10°42 | 9°30 | 24°R33 | 6°30 | 17°48 | 16°33 | 22°11 | 13°14 | 21°52 | 23°31 | 6° 4 | 17 4 17° 6 | S 25 |
| | | | | - | | | | | | | | - | | | | |
| S 26 | 8 23 25 | 6°47'16 | 21°17 | 11°40 | 10°43 | 24°32 | 6°29 | 17°43 | 16°34 | 22°13 | 13°13 | 21°53 | 23°28 | 6°11 | 17° 7 | S 26 |
| M27 | 8 27 21 | 7°48'10 | 5 8 8 | 12°40 | 11°56 | 24°31 | 6°28 | 17°39 | 16°36 | 22°15 | 13°12 | 21°R54 | 23°25 | 6°17 | 17° 9 | M27 |
| T 28 | 8 31 18 | 8°49'03 | 19°12 | 13°44 | 13° 9 | 24°29 | 6°27 | 17°34 | 16°38 | 22°18 | 13°11 | 21°53 | 23°21 | 6°24 | 17°11 | T 28 |
| W29 T 30 | 8 35 14 8 39 11 | 9°49'55 10°50'45 | 3 Ⅱ 30 17°58 | 14°50 15°58 | 14°22 15°36 | 24°26 24°22 | 6°27 6°D27 | 17°30 17°26 | 16°40 16°41 | 22°20 22°22 | 13° 9 13° 8 | 21°51 21°47 | 23°18 23°15 | 6°31 6°37 | 17°13 17°15 | W29 T 30 |
| F 31 | 8 43 7 | 10°50'45 11 ≈ 51'34 | 2933 | 15*58 17 る 8 | 16)(49 | 24°22 24 m) 17 | 6 ¹ D27 | 17921 | 16°41 | 22*22 22 ≈ 24 | 1395 7 | 21°47 21 m)41 | 23°13 23 m) 12 | 6 ² 3/ | $17^{\circ}13$ | F 31 |
| 1.31 | 0 43 / | 11~3134 | دو ت | 1/0 8 | 10/(49 | / 1 الإا 1 + 2 | 01127 | 1/2021 | 10 43 | 22~~24 | 1500/ | 21 IIV41 | 12 لابا د 2 | 07.44 | 1/11/ | 1 31 |

Delta T = 23.09 sec

Greg. Calendar

FEBRUARY 1681 GC 00:00 UT

| Day | Sid.t | 0 |) | ğ | φ | ð | 4 | ħ | ¥ | ¥ | Р | r | ಬ | Ç | к 0 | Day |
|------|----------|------------------|----------------|----------------|----------------|-----------------|---------------|--------|----------------|-------|--------|----------------|----------|---------------|----------------|------|
| S 1 | 8 47 4 | 12≈52'21 | 1795 9 | 18 ට 20 | 18 ∺ 1 | 24°R12 | 6 Ⅱ 27 | 17°R17 | 16 Y 45 | 22≈27 | 13°R 6 | 21°R35 | 23 Mg 9 | 6 ₹ 51 | 17 Y 19 | S 1 |
| S 2 | 8 51 1 | 13°53'07 | 1 Ω 38 | 19°34 | 19°14 | 24 Mp 6 | 6°28 | 179513 | 16°47 | 22°29 | 1395 5 | 21 m 29 | 23° 6 | 6°58 | 17°21 | S 2 |
| M 3 | 8 54 57 | 14°53'52 | 15°55 | 20°49 | 20°27 | 23°59 | 6°28 | 17° 9 | 16°49 | 22°31 | 13° 4 | 21°24 | 23° 2 | 7° 4 | 17°23 | M 3 |
| T 4 | 8 58 54 | 15°54'35 | 29°53 | 22° 6 | 21°40 | 23°52 | 6°29 | 17° 5 | 16°51 | 22°33 | 13° 3 | 21°20 | 22°59 | 7°11 | 17°25 | T 4 |
| W 5 | 9 2 50 | 16°55'17 | 13 m 29 | 23°25 | 22°53 | 23°43 | 6°30 | 17° 1 | 16°53 | 22°36 | 13° 2 | 21°19 | 22°56 | 7°18 | 17°27 | W 5 |
| T 6 | 9 6 47 | 17°55'58 | 26°42 | 24°44 | 24° 5 | 23°34 | 6°32 | 16°57 | 16°55 | 22°38 | 13° 1 | 21°D18 | 22°53 | 7°25 | 17°29 | T 6 |
| F 7 | 9 10 43 | 18°56'38 | 9 ₾ 32 | 26° 5 | 25°18 | 23°24 | 6°33 | 16°53 | 16°57 | 22°40 | 13° 0 | 21°20 | 22°50 | 7°31 | 17°32 | F 7 |
| S 8 | 9 14 40 | 19°57'16 | 22° 2 | 27°28 | 26°30 | 23°14 | 6°35 | 16°49 | 16°59 | 22°43 | 12°59 | 21°21 | 22°47 | 7°38 | 17°34 | S 8 |
| S 9 | 9 18 36 | 20°57'53 | 4 M .15 | 28°51 | 27°42 | 23° 2 | 6°37 | 16°46 | 17° 2 | 22°45 | 12°58 | 21°23 | 22°43 | 7°45 | 17°36 | S 9 |
| M10 | 9 22 33 | 21°58'29 | 16°16 | 0≈16 | 28°55 | 22°50 | 6°39 | 16°42 | 17° 4 | 22°47 | 12°57 | 21°24 | 22°40 | 7°51 | 17°39 | M10 |
| T 11 | 9 26 29 | 22°59'04 | 28°10 | 1°41 | 0 ℃ 7 | 22°37 | 6°41 | 16°39 | 17° 6 | 22°49 | 12°56 | 21°R24 | 22°37 | 7°58 | 17°41 | T 11 |
| W12 | 9 30 26 | 23°59'37 | 10 × 2 | 3° 8 | 1°19 | 22°23 | 6°43 | 16°35 | 17° 9 | 22°52 | 12°55 | 21°23 | 22°34 | 8° 5 | 17°44 | W12 |
| T 13 | 9 34 23 | 25° 0'10 | 21°56 | 4°36 | 2°31 | 22° 9 | 6°46 | 16°32 | 17°11 | 22°54 | 12°54 | 21°20 | 22°31 | 8°12 | 17°46 | T 13 |
| F 14 | 9 38 19 | 26° 0'41 | 3 ⋜ 57 | 6° 5 | 3°43 | 21°53 | 6°49 | 16°29 | 17°13 | 22°56 | 12°53 | 21°17 | 22°27 | 8°18 | 17°49 | F 14 |
| S 15 | 9 42 16 | 27° 1'10 | 16° 8 | 7°35 | 4°55 | 21°37 | 6°52 | 16°26 | 17°16 | 22°58 | 12°52 | 21°13 | 22°24 | 8°25 | 17°51 | S 15 |
| S 16 | 9 46 12 | 28° 1'38 | 28°32 | 9° 6 | 6° 6 | 21°21 | 6°55 | 16°22 | 17°18 | 23° 1 | 12°52 | 21° 9 | 22°21 | 8°32 | 17°54 | S 16 |
| M17 | 9 50 9 | 29° 2'05 | 11≈11 | 10°38 | 7°18 | 21° 3 | 6°59 | 16°19 | 17°21 | 23° 3 | 12°51 | 21° 5 | 22°18 | 8°38 | 17°57 | M17 |
| T 18 | 9 54 5 | 0 ¥ 2'30 | 24° 5 | 12°11 | 8°30 | 20°46 | 7° 2 | 16°17 | 17°23 | 23° 5 | 12°50 | 21° 2 | 22°15 | 8°45 | 17°59 | T 18 |
| W19 | 9 58 2 | 1° 2'53 | 7) €14 | 13°44 | 9°41 | 20°27 | 7° 6 | 16°14 | 17°26 | 23° 8 | 12°49 | 21° 1 | 22°12 | 8°52 | 18° 2 | W19 |
| T 20 | 10 1 58 | 2° 3'15 | 20°38 | 15°19 | 10°52 | 20° 8 | 7°10 | 16°11 | 17°29 | 23°10 | 12°48 | 21°D 0 | 22° 8 | 8°59 | 18° 5 | T 20 |
| F 21 | 10 5 55 | 3° 3'34 | 4 Υ 15 | 16°55 | 12° 4 | 19°48 | 7°14 | 16° 8 | 17°31 | 23°12 | 12°48 | 21° 1 | 22° 5 | 9° 5 | 18° 8 | F 21 |
| S 22 | 10 9 52 | 4° 3'52 | 18° 2 | 18°32 | 13°15 | 19°28 | 7°18 | 16° 6 | 17°34 | 23°14 | 12°47 | 21° 2 | 22° 2 | 9°12 | 18°11 | S 22 |
| S 23 | 10 13 48 | 5° 4'08 | 1 8 59 | 20°10 | 14°26 | 19° 7 | 7°23 | 16° 4 | 17°37 | 23°17 | 12°46 | 21° 3 | 21°59 | 9°19 | 18°14 | S 23 |
| M24 | 10 17 45 | 6° 4'22 | 16° 2 | 21°49 | 15°37 | 18°46 | 7°28 | 16° 1 | 17°39 | 23°19 | 12°45 | 21° 4 | 21°56 | 9°25 | 18°17 | M24 |
| T 25 | 10 21 41 | 7° 4'34 | 0 Ⅱ 11 | 23°29 | 16°48 | 18°24 | 7°32 | 15°59 | 17°42 | 23°21 | 12°45 | 21° 5 | 21°53 | 9°32 | 18°20 | T 25 |
| W26 | 10 25 38 | 8° 4'43 | 14°23 | 25°10 | 17°58 | 18° 2 | 7°37 | 15°57 | 17°45 | 23°23 | 12°44 | 21°R 5 | 21°49 | 9°39 | 18°23 | W26 |
| T 27 | 10 29 34 | 9° 4'51 | 28°35 | 26°52 | 19° 9 | 17°40 | 7°43 | 15°55 | 17°48 | 23°25 | 12°43 | 21° 4 | 21°46 | 9°46 | 18°26 | T 27 |
| F 28 | 10 33 31 | 10 米 4'56 | 129547 | 28 ≈ 35 | 20 Υ 19 | 17 M p17 | 7 Ⅱ 48 | 15953 | 17 Υ 51 | 23≈28 | 129543 | 21 Mg 3 | 21 Mp 43 | 9 ₹ 52 | 18 Y 29 | F 28 |

Delta T = 23.04 sec

MARCH 1681 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | В | ß | v | Ç | ę, | Day |
|------|----------|-------------------|----------------|----------------|----------------|-----------------|----------------|--------|----------------|-------|--------|---------|----------|----------------|----------------|------|
| S 1 | 10 37 27 | 11 米 4'59 | 26953 | 0 ∺ 19 | 21 Y 30 | 16°R54 | 7 Ⅱ 54 | 15°R51 | 17 Y 54 | 23≈30 | 12°R42 | 21°R 2 | 21 Mp 40 | 9 ,₹ 59 | 18 Y 32 | S 1 |
| S 2 | 10 41 24 | 12° 5'01 | 10 Ω 52 | 2° 4 | 22°40 | 16 m y31 | 7°59 | 15950 | 17°56 | 23°32 | 129542 | 21 mg 1 | 21°37 | 10° 6 | 18°35 | S 2 |
| M 3 | 10 45 21 | 13° 5'00 | 24°40 | 3°51 | 23°50 | 16° 8 | 8° 5 | 15°48 | 17°59 | 23°34 | 12°41 | 21° 0 | 21°33 | 10°12 | 18°38 | M 3 |
| T 4 | 10 49 17 | 14° 4'56 | 8 m /14 | 5°38 | 25° 0 | 15°44 | 8°11 | 15°47 | 18° 2 | 23°36 | 12°41 | 20°59 | 21°30 | 10°19 | 18°42 | T 4 |
| W 5 | 10 53 14 | 15° 4'51 | 21°33 | 7°27 | 26°10 | 15°21 | 8°17 | 15°45 | 18° 5 | 23°39 | 12°40 | 20°D59 | 21°27 | 10°26 | 18°45 | W 5 |
| T 6 | 10 57 10 | 16° 4'44 | 4 Ω 34 | 9°17 | 27°19 | 14°57 | 8°24 | 15°44 | 18° 8 | 23°41 | 12°40 | 20°59 | 21°24 | 10°33 | 18°48 | T 6 |
| F 7 | 11 1 7 | 17° 4'36 | 17°18 | 11° 8 | 28°29 | 14°33 | 8°30 | 15°43 | 18°11 | 23°43 | 12°39 | 20°59 | 21°21 | 10°39 | 18°51 | F 7 |
| S 8 | 11 5 3 | 18° 4'25 | 29°46 | 13° 0 | 29°38 | 14°10 | 8°37 | 15°42 | 18°15 | 23°45 | 12°39 | 21° 0 | 21°18 | 10°46 | 18°55 | S 8 |
| S 9 | 11 9 0 | 19° 4'13 | 12 M 0 | 14°53 | 0 8 47 | 13°46 | 8°44 | 15°41 | 18°18 | 23°47 | 12°38 | 21° 0 | 21°14 | 10°53 | 18°58 | S 9 |
| M10 | 11 12 56 | 20° 3'59 | 24° 3 | 16°47 | 1°56 | 13°23 | 8°51 | 15°40 | 18°21 | 23°49 | 12°38 | 21° 0 | 21°11 | 11° 0 | 19° 1 | M10 |
| T 11 | 11 16 53 | 21° 3'43 | 5 ₹ 59 | 18°43 | 3° 5 | 13° 0 | 8°58 | 15°39 | 18°24 | 23°51 | 12°38 | 21°R 0 | 21° 8 | 11° 6 | 19° 5 | T 11 |
| W12 | 11 20 50 | 22° 3'25 | 17°52 | 20°39 | 4°14 | 12°37 | 9° 5 | 15°39 | 18°27 | 23°53 | 12°37 | 21°D 0 | 21° 5 | 11°13 | 19° 8 | W12 |
| T 13 | 11 24 46 | 23° 3'06 | 29°46 | 22°37 | 5°23 | 12°14 | 9°13 | 15°38 | 18°30 | 23°55 | 12°37 | 21° 0 | 21° 2 | 11°20 | 19°12 | T 13 |
| F 14 | 11 28 43 | 24° 2'45 | 11 る 47 | 24°35 | 6°31 | 11°52 | 9°20 | 15°38 | 18°33 | 23°57 | 12°37 | 21° 0 | 20°58 | 11°26 | 19°15 | F 14 |
| S 15 | 11 32 39 | 25° 2'22 | 23°59 | 26°35 | 7°39 | 11°29 | 9°28 | 15°38 | 18°37 | 24° 0 | 12°36 | 21° 1 | 20°55 | 11°33 | 19°19 | S 15 |
| S 16 | 11 36 36 | 26° 1'57 | 6≈26 | 28°35 | 8°47 | 11° 8 | 9°36 | 15°38 | 18°40 | 24° 2 | 12°36 | 21° 1 | 20°52 | 11°40 | 19°22 | S 16 |
| M17 | 11 40 32 | 27° 1'31 | 19°10 | 0 Υ 35 | 9°55 | 10°46 | 9°44 | 15°D38 | 18°43 | 24° 4 | 12°36 | 21° 2 | 20°49 | 11°47 | 19°26 | M17 |
| T 18 | 11 44 29 | 28° 1'02 | 2) 15 | 2°36 | 11° 3 | 10°25 | 9°52 | 15°38 | 18°46 | 24° 5 | 12°36 | 21° 2 | 20°46 | 11°53 | 19°29 | T 18 |
| W19 | 11 48 25 | 29° 0'32 | 15°41 | 4°38 | 12°10 | 10° 5 | 10° 0 | 15°38 | 18°50 | 24° 7 | 12°35 | 21°R 3 | 20°43 | 12° 0 | 19°33 | W19 |
| T 20 | 11 52 22 | 0°00 Y0 | 29°27 | 6°39 | 13°18 | 9°45 | 10° 8 | 15°38 | 18°53 | 24° 9 | 12°35 | 21° 3 | 20°39 | 12° 7 | 19°36 | T 20 |
| F 21 | 11 56 18 | 0°59'25 | 13 Y 30 | 8°41 | 14°25 | 9°26 | 10°17 | 15°39 | 18°56 | 24°11 | 12°35 | 21° 2 | 20°36 | 12°13 | 19°40 | F 21 |
| S 22 | 12 0 15 | 1°58'49 | 27°46 | 10°42 | 15°32 | 9° 7 | 10°26 | 15°39 | 18°59 | 24°13 | 12°35 | 21° 1 | 20°33 | 12°20 | 19°44 | S 22 |
| S 23 | 12 4 12 | 2°58'10 | 12811 | 12°42 | 16°39 | 8°49 | 10°34 | 15°40 | 19° 3 | 24°15 | 12°35 | 21° 0 | 20°30 | 12°27 | 19°47 | S 23 |
| M24 | 12 8 8 | 3°57'29 | 26°39 | 14°41 | 17°45 | 8°32 | 10°43 | 15°41 | 19° 6 | 24°17 | 12°35 | 20°58 | 20°27 | 12°34 | 19°51 | M24 |
| T 25 | 12 12 5 | 4°56'46 | 11 II 5 | 16°39 | 18°52 | 8°15 | 10°52 | 15°41 | 19°10 | 24°19 | 12°35 | 20°57 | 20°24 | 12°40 | 19°55 | T 25 |
| W26 | 12 16 1 | 5°56'01 | 25°24 | 18°34 | 19°58 | 7°59 | 11° 1 | 15°42 | 19°13 | 24°21 | 12°D35 | 20°56 | 20°20 | 12°47 | 19°58 | W26 |
| T 27 | 12 19 58 | 6°55'13 | 9 93 5 | 20°28 | 21° 4 | 7°43 | 11°11 | 15°43 | 19°16 | 24°22 | 12°35 | 20°D56 | 20°17 | 12°54 | 20° 2 | T 27 |
| F 28 | 12 23 54 | 7°54'23 | 23°34 | 22°19 | 22° 9 | 7°28 | 11°20 | 15°45 | 19°20 | 24°24 | 12°35 | 20°56 | 20°14 | 13° 1 | 20° 6 | F 28 |
| S 29 | 12 27 51 | 8°53'30 | 7 Ω 20 | 24° 7 | 23°15 | 7°15 | 11°29 | 15°46 | 19°23 | 24°26 | 12°35 | 20°57 | 20°11 | 13° 7 | 20° 9 | S 29 |
| S 30 | 12 31 47 | 9°52'35 | 20°54 | 25°52 | 24°20 | 7° 1 | 11°39 | 15°47 | 19°26 | 24°28 | 12°35 | 20°59 | 20° 8 | 13°14 | 20°13 | S 30 |
| M31 | 12 35 44 | 10 Y 51'38 | 4 Mp 15 | 27 Y 32 | 25 8 25 | 6 m 49 | 11 Ⅱ 49 | 159549 | 19 Y 30 | 24≈29 | 12935 | 21 Mp 0 | 20 Mp 4 | 13 × 21 | 20 Y 17 | M31 |

Delta T = 23.00 sec

Greg. Calendar

APRIL 1681 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)f(| ¥ | В | ₽. | ß | Ç | ę, | Day |
|------|----------|-------------------|----------------|---------------|----------------|---------------|----------------|-------|----------------|-------|-------|---------|----------------|-----------------|----------------|------|
| T 1 | 12 39 41 | 11 Y 50'38 | 17 m 23 | 29 Y 9 | 26 8 30 | 6°R37 | 11 Ⅱ 59 | 15951 | 19 Y 33 | 24≈31 | 12935 | 21°R 1 | 20 Mp 1 | 13 ∡ 27 | 20 Υ 20 | T 1 |
| W 2 | 12 43 37 | 12°49'37 | 0 ჲ 19 | 0841 | 27°34 | 6Mp26 | 12° 9 | 15°52 | 19°37 | 24°33 | 12°36 | 21 Mp 0 | 19°58 | 13°34 | 20°24 | W 2 |
| T 3 | 12 47 34 | 13°48'33 | 13° 2 | 2° 9 | 28°38 | 6°16 | 12°19 | 15°54 | 19°40 | 24°34 | 12°36 | 20°59 | 19°55 | 13°41 | 20°28 | T 3 |
| F 4 | 12 51 30 | 14°47'27 | 25°33 | 3°32 | 29°42 | 6° 7 | 12°29 | 15°56 | 19°44 | 24°36 | 12°36 | 20°56 | 19°52 | 13°48 | 20°32 | F 4 |
| S 5 | 12 55 27 | 15°46'19 | 7 M 52 | 4°49 | 0 Ⅱ 45 | 5°58 | 12°39 | 15°58 | 19°47 | 24°38 | 12°36 | 20°53 | 19°49 | 13°54 | 20°35 | S 5 |
| S 6 | 12 59 23 | 16°45'10 | 20° 2 | 6° 1 | 1°49 | 5°50 | 12°49 | 16° 0 | 19°50 | 24°39 | 12°36 | 20°48 | 19°45 | 14° 1 | 20°39 | S 6 |
| M 7 | 13 3 20 | 17°43'58 | 2 , ₹ 3 | 7° 8 | 2°52 | 5°43 | 13° 0 | 16° 3 | 19°54 | 24°41 | 12°37 | 20°44 | 19°42 | 14° 8 | 20°43 | M 7 |
| T 8 | 13 7 16 | 18°42'45 | 13°58 | 8° 9 | 3°54 | 5°37 | 13°10 | 16° 5 | 19°57 | 24°42 | 12°37 | 20°40 | 19°39 | 14°14 | 20°47 | T 8 |
| W 9 | 13 11 13 | 19°41'30 | 25°51 | 9° 4 | 4°56 | 5°32 | 13°21 | 16° 7 | 20° 1 | 24°44 | 12°37 | 20°36 | 19°36 | 14°21 | 20°50 | W 9 |
| T 10 | 13 15 10 | 20°40'13 | 7 궁 44 | 9°53 | 5°58 | 5°27 | 13°32 | 16°10 | 20° 4 | 24°45 | 12°38 | 20°34 | 19°33 | 14°28 | 20°54 | T 10 |
| F 11 | 13 19 6 | 21°38'54 | 19°44 | 10°36 | 7° 0 | 5°23 | 13°42 | 16°13 | 20° 8 | 24°47 | 12°38 | 20°D33 | 19°30 | 14°35 | 20°58 | F 11 |
| S 12 | 13 23 3 | 22°37'34 | 1≈54 | 11°13 | 8° 1 | 5°20 | 13°53 | 16°15 | 20°11 | 24°48 | 12°39 | 20°34 | 19°26 | 14°41 | 21° 2 | S 12 |
| S 13 | 13 26 59 | 23°36'12 | 14°18 | 11°43 | 9° 2 | 5°18 | 14° 4 | 16°18 | 20°14 | 24°50 | 12°39 | 20°35 | 19°23 | 14°48 | 21° 6 | S 13 |
| M14 | 13 30 56 | 24°34'49 | 27° 2 | 12° 8 | 10° 3 | 5°16 | 14°15 | 16°21 | 20°18 | 24°51 | 12°39 | 20°37 | 19°20 | 14°55 | 21° 9 | M14 |
| T 15 | 13 34 52 | 25°33'23 | 10 米 9 | 12°27 | 11° 3 | 5°15 | 14°26 | 16°24 | 20°21 | 24°52 | 12°40 | 20°38 | 19°17 | 15° 2 | 21°13 | T 15 |
| W16 | 13 38 49 | 26°31'56 | 23°42 | 12°39 | 12° 3 | 5°D15 | 14°38 | 16°27 | 20°25 | 24°54 | 12°40 | 20°R38 | 19°14 | 15° 8 | 21°17 | W16 |
| T 17 | 13 42 45 | 27°30'27 | 7 Υ 40 | 12°46 | 13° 2 | 5°16 | 14°49 | 16°31 | 20°28 | 24°55 | 12°41 | 20°37 | 19°10 | 15°15 | 21°21 | T 17 |
| F 18 | 13 46 42 | 28°28'57 | 22° 2 | 12°R47 | 14° 1 | 5°17 | 15° 0 | 16°34 | 20°32 | 24°56 | 12°41 | 20°34 | 19° 7 | 15°22 | 21°24 | F 18 |
| S 19 | 13 50 38 | 29°27'24 | 6 8 42 | 12°42 | 15° 0 | 5°19 | 15°12 | 16°37 | 20°35 | 24°57 | 12°42 | 20°30 | 19° 4 | 15°28 | 21°28 | S 19 |
| S 20 | 13 54 35 | 0825'50 | 21°34 | 12°31 | 15°58 | 5°22 | 15°24 | 16°41 | 20°38 | 24°59 | 12°43 | 20°24 | 19° 1 | 15°35 | 21°32 | S 20 |
| M21 | 13 58 32 | 1°24'14 | 6 Ⅱ 28 | 12°16 | 16°56 | 5°25 | 15°35 | 16°45 | 20°42 | 25° 0 | 12°43 | 20°18 | 18°58 | 15°42 | 21°36 | M21 |
| T 22 | 14 2 28 | 2°22'35 | 21°18 | 11°56 | 17°53 | 5°30 | 15°47 | 16°48 | 20°45 | 25° 1 | 12°44 | 20°12 | 18°55 | 15°49 | 21°39 | T 22 |
| W23 | 14 6 25 | 3°20'55 | 5 9 55 | 11°32 | 18°49 | 5°35 | 15°59 | 16°52 | 20°49 | 25° 2 | 12°44 | 20° 8 | 18°51 | 15°55 | 21°43 | W23 |
| T 24 | 14 10 21 | 4°19'13 | 20°14 | 11° 3 | 19°46 | 5°40 | 16°11 | 16°56 | 20°52 | 25° 3 | 12°45 | 20° 5 | 18°48 | 16° 2 | 21°47 | T 24 |
| F 25 | 14 14 18 | 5°17'28 | 4 Ω 13 | 10°32 | 20°41 | 5°47 | 16°22 | 17° 0 | 20°55 | 25° 4 | 12°46 | 20°D 4 | 18°45 | 16° 9 | 21°50 | F 25 |
| S 26 | 14 18 14 | 6°15'41 | 17°52 | 9°58 | 21°36 | 5°54 | 16°34 | 17° 4 | 20°59 | 25° 5 | 12°47 | 20° 5 | 18°42 | 16°15 | 21°54 | S 26 |
| S 27 | 14 22 11 | 7°13'53 | 1 m 12 | 9°22 | 22°31 | 6° 1 | 16°47 | 17° 8 | 21° 2 | 25° 6 | 12°47 | 20° 6 | 18°39 | 16°22 | 21°58 | S 27 |
| M28 | 14 26 7 | 8°12'02 | 14°15 | 8°44 | 23°25 | 6° 9 | 16°59 | 17°13 | 21° 5 | 25° 7 | 12°48 | 20°R 7 | 18°35 | 16°29 | 22° 1 | M28 |
| T 29 | 14 30 4 | 9°10'09 | 27° 3 | 8° 6 | 24°18 | 6°18 | 17°11 | 17°17 | 21° 9 | 25° 8 | 12°49 | 20° 7 | 18°32 | 16°36 | 22° 5 | T 29 |
| W30 | 14 34 1 | 108 8'14 | 9 ॒ 39 | 7 8 28 | 25 Ⅱ 11 | 6 m 28 | 17 Ⅱ 23 | 17921 | 21 Y 12 | 25≈ 9 | 12950 | 20 Mg 5 | 18 m 29 | 16 ×7 42 | 22 ° 9 | W30 |

Delta T = 22.95 sec

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| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Day | Sid.t | 0 | D | ğ | φ | o ⁷ | 4 | ħ |)ф(| , | В | ß | v | Ç | ę, | Day |
|--|------|----------|----------|----------------|---------------|--------|----------------|----------------|--------|----------------|--------------|--------|-----------------|-----------------|-----------------|----------------|------|
| S 3 14 45 50 13° 2'20 16°29 5°41 27°45 7° 0 18° 0 17°35 21°22 25°12 12°52 19°46 18°20 17° 3 22°19 S 4 144 94 7 14° 0'18 28°32 5° 9 28°35 7°11 18°13 17°40 21°25 25°12 12°53 19°36 18°16 17° 9 22°23 M 5 14 57 40 15°56'11 22°22 4°16 0©312 7°36 18°83 17°50 21°32 25°14 12°55 19°15 18°10 17°12 22°27 T 6 16°54'05 4°514 3°54 1° 0 7°50 18°50 17°55 21°35 25°15 12°56 19° 6 18° 7 17°29 22°33 T 8 15° 5 33 17°51'58 16° 7 3°37 1°47 8° 4 19° 3 18° 0 21°35 25°15 12°56 19° 0 18° 17 17°29 22°34 23°3 | T 1 | 14 37 57 | 118 6'18 | 22 ♀ 4 | | 26耳 3 | 6 m 38 | 17 Ⅲ 35 | 179526 | 21 Y 15 | 25≈10 | 12951 | 20°R 1 | 18 m)26 | 16 ∡ 149 | 22 Y 12 | T 1 |
| $ \begin{array}{c} 8 & 4 & 144947 & 14^{\circ} & 018 & 28^{\circ}32 & 5^{\circ} & 9 & 28^{\circ}35 & 7^{\circ}11 & 18^{\circ}13 & 17^{\circ}40 & 21^{\circ}25 & 25^{\circ}12 & 12^{\circ}53 & 19^{\circ}36 & 18^{\circ}16 & 17^{\circ} & 9 & 22^{\circ}23 \\ M & 5 & 14 & 53 & 43 & 14^{\circ}58^{\circ}16 & 10 & 2^{\circ}29 & 4^{\circ}41 & 29^{\circ}24 & 7^{\circ}24 & 18^{\circ}25 & 17^{\circ}45 & 21^{\circ}28 & 25^{\circ}13 & 12^{\circ}54 & 19^{\circ}25 & 18^{\circ}13 & 17^{\circ}16 & 22^{\circ}27 \\ T & 6 & 14 & 57 & 40 & 15^{\circ}56^{\circ}11 & 22^{\circ}22 & 4^{\circ}16 & 05^{\circ}12 & 7^{\circ}36 & 18^{\circ}38 & 17^{\circ}50 & 21^{\circ}35 & 25^{\circ}15 & 12^{\circ}56 & 19^{\circ}51 & 18^{\circ}10 & 17^{\circ}23 & 22^{\circ}34 \\ W & 7 & 15 & 136 & 16^{\circ}5405 & 45^{\circ}14 & 3^{\circ}54 & 1^{\circ}0 & 7^{\circ}50 & 18^{\circ}50 & 17^{\circ}55 & 21^{\circ}35 & 25^{\circ}15 & 12^{\circ}56 & 19^{\circ}6 & 18^{\circ}7 & 17^{\circ}29 & 22^{\circ}34 \\ T & 8 & 15 & 533 & 17^{\circ}51^{\circ}58 & 16^{\circ}7 & 3^{\circ}37 & 1^{\circ}47 & 8^{\circ}4 & 19^{\circ}0 & 3 & 18^{\circ}0 & 21^{\circ}38 & 25^{\circ}15 & 12^{\circ}56 & 19^{\circ}6 & 18^{\circ}7 & 17^{\circ}50 & 22^{\circ}44 \\ S & 10 & 15 & 1326 & 19^{\circ}47^{\prime}40 & 10 & 10 & 3^{\circ}15 & 3^{\circ}15 & 3^{\circ}18 & 8^{\circ}33 & 19^{\circ}29 & 18^{\circ}10 & 12^{\circ}44 & 25^{\circ}16 & 12^{\circ}59 & 18^{\circ}53 & 17^{\circ}57 & 17^{\circ}50 & 22^{\circ}44 \\ S & 11 & 15 & 17 & 23 & 20^{\circ}45^{\prime}29 & 22^{\circ}35 & 3^{\circ}11 & 4^{\circ}45 & 9^{\circ}4 & 19^{\circ}54 & 18^{\circ}21 & 21^{\circ}50 & 25^{\circ}18 & 13^{\circ}1 & 18^{\circ}53 & 17^{\circ}51 & 18^{\circ}3 & 22^{\circ}15 \\ T & 13 & 15 & 25 & 16 & 22^{\circ}41^{\circ}04 & 18^{\circ}18 & 3^{\circ}16 & 5^{\circ}27 & 9^{\circ}21 & 20^{\circ}7 & 18^{\circ}6 & 21^{\circ}50 & 25^{\circ}18 & 13^{\circ}2 & 18^{\circ}53 & 17^{\circ}51 & 18^{\circ}3 & 22^{\circ}51 \\ T & 13 & 15 & 25 & 16 & 22^{\circ}41^{\circ}04 & 18^{\circ}18 & 3^{\circ}16 & 5^{\circ}27 & 9^{\circ}21 & 20^{\circ}7 & 18^{\circ}6 & 21^{\circ}50 & 25^{\circ}18 & 13^{\circ}2 & 18^{\circ}53 & 17^{\circ}51 & 18^{\circ}3 & 22^{\circ}51 \\ T & 13 & 15 & 25 & 16 & 22^{\circ}41^{\circ}04 & 18^{\circ}18 & 3^{\circ}16 & 5^{\circ}27 & 9^{\circ}21 & 20^{\circ}7 & 18^{\circ}6 & 21^{\circ}55 & 25^{\circ}18 & 13^{\circ}2 & 18^{\circ}53 & 17^{\circ}51 & 18^{\circ}3 & 22^{\circ}51 \\ T & 13 & 15 & 25 & 16 & 22^{\circ}41^{\circ}7 & 00^{\circ}15 & 3^{\circ}88 & 7^{\circ}27 & 10^{\circ}13 & 20^{\circ}46 & 18^{\circ}43 & 22^{\circ}9 & 25^{\circ}19 & 13^{\circ}4 & 18^{\circ}50 & 17^{\circ}41 & 18^{\circ}23 & 23^{\circ}18 \\ T & 15 & 15 & 33 & 9 & 24^{\circ}3634 & 15^{\circ}48 & 3^{\circ}39 & 6^{\circ}48 & 9^{\circ}55 &$ | F 2 | 14 41 54 | 12° 4'20 | 4 M 21 | 6 8 15 | 26°54 | 6°48 | 17°48 | 17°31 | 21°19 | 25°11 | 12°51 | 19 m 54 | 18°23 | 16°56 | 22°16 | F 2 |
| M 5 14 53 43 14°58°16 10√29 4°41 29°24 7°24 18°25 17°45 21°28 25°13 12°54 19°25 18°13 17°16 22°27 T 6 14 57 40 15°56′11 22°22 4°16 05°12 7°36 18°38 17°50 21°23 25°14 12°55 19°15 18°10 17°23 22°30 W7 7 15 136 16°5405 45°14 45°14 3°54 1°0 7°550 18°50 17°55 21°35 25°15 12°56 19°6 6 18° 7 17°29 22°34 T 8 15 5 33 17°51′58 16° 7 3°37 1°47 8° 4 19° 3 18° 0 21°38 25°15 12°57 19° 0 18° 4 17°36 22°37 F 9 15 9 30 18°49′50 28° 6 3°24 2°33 88°18 19°16 18° 5 21°41 25°16 12°58 18°55 18° 1 17°43 22°41 S 10 15 13 26 19°47′40 10∞13 3°15 3°18 8°33 19°29 18°10 21°44 25°16 12°58 18°55 17°57 17°50 22°44 S 11 15 17°23 20°45′29 22°35 3°D11 4° 2 8°48 19°41 18°15 21°47 25°16 12°58 18°53 17°57 17°50 22°44 M12 15 21 19 21°43′17 5 €15 3°11 4°45 9° 4 19°54 18°21 21°50 25°18 13° 1 18°53 17°51 18° 3 22°51 T 13 15 25 16 22°41′04 18°18 3°16 5°27 9°21 20° 7 18°26 21°53 25°18 13° 1 18°53 17°51 18° 3 22°51 T 13 15 25 16 22°41′04 18°18 3°16 5°27 9°21 20° 7 18°26 21°53 25°18 13° 1 18°53 17°51 18° 3 22°51 T 15 15 33 9 24°36′34 15°48 3°39 6°48 9°55 20°33 18°37 22° 0 25°19 13° 4 18°50 17°41 18°23 23° 1 F 16 15 37 5 25°34′17 0815 3°58 7°27 10°13 20°46 18°43 22° 0 25°19 13° 5 18°45 17°45 18°37 22° 8 18 15 15 45 5 25° 29°248 0 0537 5°54 9°17 11° 8 21°26 19° 0 22° 11 25° 0 13° 6 18°37 17°35 18°37 23° 8 18° 15 15° 25° 22° 23° 25° 19 13° 5 18° 45 17° 18° 3 23° 14° 15° 15° 15° 15° 15° 15° 15° 15° 15° 15 | S 3 | 14 45 50 | 13° 2'20 | 16°29 | 5°41 | 27°45 | 7° 0 | 18° 0 | 17°35 | 21°22 | 25°12 | 12°52 | 19°46 | 18°20 | 17° 3 | 22°19 | S 3 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | | | | | | -, - | 22°23 | S 4 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | M 5 | 14 53 43 | 14°58'16 | 10 × 29 | 4°41 | 29°24 | 7°24 | | 17°45 | | | 12°54 | | 18°13 | 17°16 | | M 5 |
| | T 6 | 14 57 40 | 15°56'11 | | 4°16 | | 7°36 | 18°38 | 17°50 | 21°32 | 25°14 | 12°55 | 19°15 | 18°10 | 17°23 | | T 6 |
| F 9 15 9 30 | W 7 | 15 1 36 | 16°54'05 | 4 궁 14 | 3°54 | 1° 0 | 7°50 | 18°50 | 17°55 | 21°35 | 25°15 | 12°56 | 19° 6 | 18° 7 | 17°29 | 22°34 | W 7 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | T 8 | 15 5 33 | 17°51'58 | 16° 7 | 3°37 | 1°47 | 8° 4 | 19° 3 | 18° 0 | 21°38 | 25°15 | 12°57 | 19° 0 | 18° 4 | 17°36 | 22°37 | T 8 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | F 9 | 15 9 30 | 18°49'50 | 28° 6 | 3°24 | 2°33 | 8°18 | 19°16 | 18° 5 | 21°41 | 25°16 | 12°58 | 18°55 | 18° 1 | 17°43 | 22°41 | F 9 |
| M12 | S 10 | 15 13 26 | 19°47'40 | 10≈13 | 3°15 | 3°18 | 8°33 | 19°29 | 18°10 | 21°44 | 25°16 | 12°59 | 18°53 | 17°57 | 17°50 | 22°44 | S 10 |
| T13 | S 11 | 15 17 23 | 20°45'29 | 22°35 | 3°D11 | 4° 2 | 8°48 | 19°41 | 18°15 | 21°47 | | 13° 0 | 18°D52 | 17°54 | 17°56 | 22°48 | S 11 |
| W14 15 29 12 23°38'49 1 Y49 3°25 6° 8 9°38 20°20 18°32 21°57 25°19 13° 3 18°53 17°45 18°17 22°58 15° 15° 15° 15° 15° 15° 15° 15° 15° 15° | | 15 21 19 | 21°43'17 | 5) 15 | 3°11 | 4°45 | 9° 4 | 19°54 | 18°21 | | | | 18°53 | 17°51 | 18° 3 | 22°51 | M12 |
| T 15 | T 13 | 15 25 16 | | | | | | 20° 7 | | | | | | 17°48 | | 22°54 | T 13 |
| F 16 | W14 | 15 29 12 | 23°38'49 | 1 Y 49 | 3°25 | 6° 8 | 9°38 | 20°20 | 18°32 | 21°57 | 25°19 | 13° 3 | 18°53 | 17°45 | 18°17 | 22°58 | W14 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | T 15 | 15 33 9 | 24°36'34 | | 3°39 | 6°48 | 9°55 | 20°33 | 18°37 | | 25°19 | 13° 4 | 18°50 | 17°41 | 18°23 | | T 15 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | F 16 | 15 37 5 | 25°34'17 | 0815 | 3°58 | 7°27 | 10°13 | 20°46 | 18°43 | 22° 3 | 25°19 | 13° 5 | 18°45 | 17°38 | 18°30 | | F 16 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | S 17 | 15 41 2 | 26°31'59 | 15° 6 | 4°21 | 8° 5 | 10°31 | 20°59 | 18°49 | 22° 6 | 25°20 | 13° 6 | 18°37 | 17°35 | 18°37 | 23° 8 | S 17 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | S 18 | 15 44 59 | | | _ | - | | - | | - | | | | | | | S 18 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | _ | _ | -, - | | | 13° 9 | | | | | M19 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | , | | | | | | | | | | | T 20 |
| F 23 | | | | | | | | | | | - | | | | - | | W21 |
| S 24 16 8 38 3°15′18 27°55 8°54 11°53 12°50 22°32 19°30 22°26 25°21 13°15 17°51 17°13 19°24 23°30 S 25 16 12 34 4°12′49 11\(\mathbb{n}\)12 9°48 12°19 13°11 22°45 19°37 22°29 25°21 13°16 17°51 17°10 19°30 23°33 M26 16 16 31 5°10′19 24° 7 10°45 12°44 13°33 22°59 19°43 22°31 25°22 13°17 17°51 17° 7 19°37 23°36 T 27 16 20 28 6° 7′47 6\(\overline{\Omega}\)45 11°45 13° 8 13°55 23°12 19°49 22°34 25°22 13°19 17°50 17° 3 19°44 23°39 W28 16 24 24 7° 5′14 19° 9 12°49 13°29 14°17 23°26 19°56 22°37 25°R22 13°20 17°46 17° 0 19°51 23°42 T 29 16 28 21 8° 2′41 1\(\mathbb{n}\)1\(\overline{\Omega}\)25 13°49 14°40 23°39 20° 2 22°39 25°22 13°21 17°40 16°57 19°57 23°45 | | | | | | | _ | _ | | - | - | - | | | | | T 22 |
| 8 25 | | 16 441 | | _ | | | | | - | | | | | | | | F 23 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | S 24 | 16 8 38 | 3°15'18 | 27°55 | 8°54 | 11°53 | 12°50 | 22°32 | 19°30 | 22°26 | 25°21 | 13°15 | 17°51 | 17°13 | 19°24 | 23°30 | S 24 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | - | - | | , | - | - | | | | | | | | | 23°33 | S 25 |
| W28 16 24 24 7° 5'14 19° 9 12°49 13°29 14°17 23°26 19°56 22°37 25°R22 13°20 17°46 17° 0 19°51 23°42 T 29 16 28 21 8° 2'41 1 m22 13°56 13°49 14°40 23°39 20° 2 22°39 25°22 13°21 17°40 16°57 19°57 23°45 | | | | | | | | | | | | | | -, , | | 23°36 | M26 |
| T 29 16 28 21 8° 2'41 1 ML22 13°56 13°49 14°40 23°39 20° 2 22°39 25°22 13°21 17°40 16°57 19°57 23°45 | | | | - | - | | | _ | | _ | - | | | | - | 23°39 | T 27 |
| | | - | | | , | | | | | | - | | | -, - | | 23°42 | W28 |
| TE 30 16 32 17 00 0/05 12027 150 7 140 7 150 3 22052 200 8 22042 25021 12022 17031 16054 200 4 22048 | | 16 28 21 | 0 | | | | - | | - | | - | - | | | | 23°45 | T 29 |
| | F 30 | 16 32 17 | 9° 0'05 | 13°27 | 15° 7 | 14° 7 | 15° 3 | 23°53 | 20° 8 | 22°42 | 25°21 | 13°22 | 17°31 | 16°54 | 20° 4 | 23°48 | F 30 |
| \$ 31 16 36 14 9\Pi 57'29 25M27 16\Begin{array}{c c c c c c c c c c c c c c c c c c c | S 31 | 16 36 14 | 9∏57'29 | 25 M 27 | 16820 | 149523 | 15 M 27 | 24Ⅱ 6 | 20915 | 22 Y 45 | 25≈21 | 139524 | 17 m /20 | 16 M 51 | 20 × 11 | 23 Y 51 | S 31 |

Delta T = 22.91 sec Greg. Calendar

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| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)f(| ¥ | Р | v | v | ţ | ę, | Day |
|------|----------|-------------------|----------------|----------------|--------|----------------|----------|--------|----------------|--------|--------|----------------|-----------------|----------------|----------------|------|
| S 1 | 16 40 10 | 10 Ⅲ 54'52 | 7 . ₹23 | 17 8 36 | 14937 | 15 m 50 | 24∏20 | 209522 | 22 Y 47 | 25°R21 | 139525 | 17°R 7 | 16 M)47 | 20 ~ 18 | 23 Y 54 | S 1 |
| M 2 | 16 44 7 | 11°52'14 | 19°16 | 18°55 | 14°49 | 16°15 | 24°33 | 20°28 | 22°50 | 25≈21 | 13°26 | 16 m 53 | 16°44 | 20°24 | 23°56 | M 2 |
| T 3 | 16 48 3 | 12°49'36 | 1る 9 | 20°18 | 14°58 | 16°39 | 24°47 | 20°35 | 22°52 | 25°21 | 13°28 | 16°40 | 16°41 | 20°31 | 23°59 | T 3 |
| W 4 | 16 52 0 | 13°46'56 | 13° 2 | 21°43 | 15° 6 | 17° 4 | 25° 0 | 20°42 | 22°55 | 25°21 | 13°29 | 16°28 | 16°38 | 20°38 | 24° 2 | W 4 |
| T 5 | 16 55 57 | 14°44'16 | 24°57 | 23°11 | 15°11 | 17°29 | 25°14 | 20°48 | 22°57 | 25°20 | 13°31 | 16°18 | 16°35 | 20°44 | 24° 5 | T 5 |
| F 6 | 16 59 53 | 15°41'35 | 6≈58 | 24°41 | 15°14 | 17°54 | 25°27 | 20°55 | 22°59 | 25°20 | 13°32 | 16°11 | 16°32 | 20°51 | 24° 7 | F 6 |
| S 7 | 17 3 50 | 16°38'54 | 19° 7 | 26°15 | 15°R15 | 18°19 | 25°41 | 21° 2 | 23° 2 | 25°20 | 13°33 | 16° 7 | 16°28 | 20°58 | 24°10 | S 7 |
| S 8 | 17 7 46 | 17°36'12 | 1 ∺ 28 | 27°51 | 15°14 | 18°45 | 25°55 | 21° 9 | 23° 4 | 25°19 | 13°35 | 16° 5 | 16°25 | 21° 5 | 24°12 | S 8 |
| M 9 | 17 11 43 | 18°33'30 | 14° 6 | 29°31 | 15°10 | 19°11 | 26° 8 | 21°16 | 23° 6 | 25°19 | 13°36 | 16° 5 | 16°22 | 21°11 | 24°15 | M 9 |
| T 10 | 17 15 39 | 19°30'48 | 27° 6 | 1 I I13 | 15° 4 | 19°38 | 26°22 | 21°23 | 23° 9 | 25°19 | 13°38 | 16° 5 | 16°19 | 21°18 | 24°18 | T 10 |
| W11 | 17 19 36 | 20°28'05 | 10 Y 30 | 2°57 | 14°55 | 20° 5 | 26°36 | 21°30 | 23°11 | 25°18 | 13°39 | 16° 4 | 16°16 | 21°25 | 24°20 | W11 |
| T 12 | 17 23 32 | 21°25'22 | 24°23 | 4°45 | 14°44 | 20°31 | 26°49 | 21°37 | 23°13 | 25°18 | 13°41 | 16° 1 | 16°13 | 21°32 | 24°22 | T 12 |
| F 13 | 17 27 29 | 22°22'38 | 8 8 44 | 6°35 | 14°31 | 20°59 | 27° 3 | 21°44 | 23°15 | 25°17 | 13°42 | 15°56 | 16° 9 | 21°38 | 24°25 | F 13 |
| S 14 | 17 31 26 | 23°19'55 | 23°31 | 8°28 | 14°15 | 21°26 | 27°17 | 21°51 | 23°17 | 25°17 | 13°44 | 15°48 | 16° 6 | 21°45 | 24°27 | S 14 |
| S 15 | 17 35 22 | 24°17'11 | 8Д39 | 10°23 | 13°57 | 21°54 | 27°30 | 21°58 | 23°19 | 25°16 | 13°45 | 15°38 | 16° 3 | 21°52 | 24°29 | S 15 |
| M16 | 17 39 19 | 25°14'27 | 23°57 | 12°21 | 13°37 | 22°22 | 27°44 | 22° 6 | 23°21 | 25°16 | 13°47 | 15°28 | 16° 0 | 21°58 | 24°32 | M16 |
| T 17 | 17 43 15 | 26°11'42 | 99514 | 14°21 | 13°14 | 22°50 | 27°58 | 22°13 | 23°23 | 25°15 | 13°48 | 15°17 | 15°57 | 22° 5 | 24°34 | T 17 |
| W18 | 17 47 12 | 27° 8'57 | 24°20 | 16°23 | 12°49 | 23°19 | 28°11 | 22°20 | 23°25 | 25°14 | 13°50 | 15° 9 | 15°53 | 22°12 | 24°36 | W18 |
| T 19 | 17 51 8 | 28° 6'11 | 9Ω 4 | 18°27 | 12°23 | 23°47 | 28°25 | 22°27 | 23°27 | 25°14 | 13°51 | 15° 2 | 15°50 | 22°19 | 24°38 | T 19 |
| F 20 | 17 55 5 | 29° 3'25 | 23°22 | 20°32 | 11°54 | 24°16 | 28°39 | 22°35 | 23°29 | 25°13 | 13°53 | 14°59 | 15°47 | 22°25 | 24°40 | F 20 |
| S 21 | 17 59 1 | 09 0'38 | 7 m)11 | 22°40 | 11°24 | 24°45 | 28°53 | 22°42 | 23°31 | 25°12 | 13°54 | 14°57 | 15°44 | 22°32 | 24°42 | S 21 |
| S 22 | 18 2 58 | 0°57'51 | 20°33 | 24°48 | 10°52 | 25°15 | 29° 6 | 22°50 | 23°33 | 25°11 | 13°56 | 14°D57 | 15°41 | 22°39 | 24°44 | S 22 |
| M23 | 18 6 55 | 1°55'03 | 3 ₾ 29 | 26°58 | 10°18 | 25°44 | 29°20 | 22°57 | 23°34 | 25°11 | 13°57 | 14°R57 | 15°38 | 22°45 | 24°46 | M23 |
| T 24 | 18 10 51 | 2°52'15 | 16° 5 | 29° 8 | 9°44 | 26°14 | 29°34 | 23° 4 | 23°36 | 25°10 | 13°59 | 14°57 | 15°34 | 22°52 | 24°48 | T 24 |
| W25 | 18 14 48 | 3°49'26 | 28°24 | 19918 | 9° 8 | 26°44 | 29°47 | 23°12 | 23°38 | 25° 9 | 14° 0 | 14°54 | 15°31 | 22°59 | 24°50 | W25 |
| T 26 | 18 18 44 | 4°46'37 | 10ML32 | 3°29 | 8°31 | 27°14 | 0ର୍ତ୍ତ 1 | 23°19 | 23°39 | 25° 8 | 14° 2 | 14°49 | 15°28 | 23° 6 | 24°52 | T 26 |
| F 27 | 18 22 41 | 5°43'47 | 22°31 | 5°40 | 7°54 | 27°45 | 0°15 | 23°27 | 23°41 | 25° 7 | 14° 3 | 14°42 | 15°25 | 23°12 | 24°53 | F 27 |
| S 28 | 18 26 37 | 6°40'58 | 4 ₹ 26 | 7°50 | 7°17 | 28°15 | 0°28 | 23°35 | 23°42 | 25° 6 | 14° 5 | 14°32 | 15°22 | 23°19 | 24°55 | S 28 |
| S 29 | 18 30 34 | 7°38'08 | 16°19 | 10° 0 | 6°39 | 28°46 | 0°42 | 23°42 | 23°44 | 25° 5 | 14° 6 | 14°20 | 15°19 | 23°26 | 24°57 | S 29 |
| M30 | 18 34 30 | 8935'18 | 28 × 11 | 1295 9 | 69 1 | 29 m 17 | 0ഇ55 | 23950 | 23 Y 45 | 25≈ 4 | 1495 8 | 14Mp 8 | 15 m 15 | 23 × 33 | 24 Y 58 | M30 |

Delta T = 22.86 sec

JULY 1681 GC 00:00 UT

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|--------------|----------------------|----------------------|-------------------------|----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|--------------|
| T 1 | 18 38 27 | 9932'28 | 10궁 5 | 149516 | 5°R24 | 29 m /48 | 195 9 | 23957 | 23 Y 47 | 25°R 3 | 149510 | 13°R57 | 15 m)12 | 23 × 39 | 25 Y 0 | T 1 |
| W 2 | 18 42 24 | 10°29'39 | 22° 3 | 16°23 | 49548 | 0 ჲ 20 | 1°23 | 24° 5 | 23°48 | 25≈ 2 | 14°11 | 13 M 46 | 15° 9 | 23°46 | 25° 1 | W 2 |
| T 3 | 18 46 20 | 11°26'49 | 4≈ 4 | 18°28 | 4°12 | 0°51 | 1°36 | 24°13 | 23°49 | 25° 1 | 14°13 | 13°38 | 15° 6 | 23°53 | 25° 3 | T 3 |
| F 4 | 18 50 17 | 12°24'00 | 16°12 | 20°32 | 3°38 | 1°23 | 1°50 | 24°20 | 23°51 | 25° 0 | 14°14 | 13°32 | 15° 3 | 23°59 | 25° 4 | F 4 |
| S 5 | 18 54 13 | 13°21'11 | 28°29 | 22°34 | 3° 4 | 1°55 | 2° 3 | 24°28 | 23°52 | 24°59 | 14°16 | 13°29 | 14°59 | 24° 6 | 25° 5 | S 5 |
| S 6 | 18 58 10 | 14°18'22 | 10 ¥ 57 | 24°34 | 2°33 | 2°27 | 2°17 | 24°36 | 23°53 | 24°58 | 14°17 | 13°D28 | 14°56 | 24°13 | 25° 7 | S 6 |
| M 7 | 19 2 6 | 15°15'33 | 23°39 | 26°33 | 2° 2 | 3° 0 | 2°30 | 24°43 | 23°54 | 24°57 | 14°19 | 13°28 | 14°53 | 24°20 | 25° 8 | M 7 |
| T 8 | 19 6 3 | 16°12'46 | 6 Ƴ 39 | 28°30 | 1°34 | 3°32 | 2°44 | 24°51 | 23°55 | 24°56 | 14°21 | 13°29 | 14°50 | 24°26 | 25° 9 | T 8 |
| W 9 | 19 9 59 | 17° 9'58 | 20° 1 | 0Ω25 | 1° 8 | 4° 5 | 2°57 | 24°59 | 23°56 | 24°54 | 14°22 | 13°R29 | 14°47 | 24°33 | 25°10 | W 9 |
| T 10 | 19 13 56 | 18° 7'12 | 3 8 46 | 2°18 4° 9 | 0°43 | 4°37 | 3°11 | 25° 6 | 23°57 | 24°53 | 14°24 | 13°28 | 14°44 | 24°40 | 25°11 25°12 | T 10 |
| F 11 S 12 | 19 17 53 19 21 49 | 19° 4'26 20° 1'41 | 17°57 2 ∏ 31 | 5°59 | 0°21 0° 1 | 5°10 5°44 | 3°24 3°37 | 25°14 25°22 | 23°58 23°59 | 24°52 24°51 | 14°25 14°27 | 13°25 13°20 | 14°40 14°37 | 24°46 24°53 | 25°12 25°13 | F 11 S 12 |
| | | | | | | | | | | | | | | | | |
| S 13 | 19 25 46 | 20°58'56 | 17°25 | 7°47 | 29 Ⅱ 43 | 6°17 | 3°51 | 25°30 | 24° 0 | 24°49 | 14°28 | 13°13 | 14°34 | 25° 0 | 25°14 | S 13 |
| M14 | 19 29 42 | 21°56'13 | 2932 | 9°33 | 29°28 | 6°50 | 4° 4 | 25°37 | 24° 1 | 24°48 | 14°30 | 13° 5 | 14°31 | 25° 7 | 25°15 | M14 |
| T 15 W16 | 19 33 39 19 37 35 | 22°53'30 23°50'47 | 17°40 2 Ω 42 | 11°17 12°59 | 29°15 29° 4 | 7°24 7°58 | 4°17 4°31 | 25°45 25°53 | 24° 1 24° 2 | 24°47 24°46 | 14°31 14°33 | 12°58 12°52 | 14°28 14°24 | 25°13 25°20 | 25°16 25°17 | T 15 W16 |
| T 17 | 19 37 33 | 24°48'05 | 17°27 | 12°39 | 29° 4 28°56 | 8°32 | 4°44 | 25°53 26° 1 | 24° 2 | 24°46 24°44 | 14°35 | 12°52 12°47 | 14°24 | 25°27 | 25°17 25°17 | T 17 |
| F 18 | 19 41 32 | 25°45'23 | 1 m 48 | 14 39 16°18 | 28°50 | 9° 6 | 4°57 | 26° 9 | 24° 3 | 24°43 | 14°36 | 12°45 | 14°18 | 25°34 | 25°18 | F 18 |
| S 19 | 19 49 25 | 26°42'42 | 15°42 | 17°54 | 28°46 | 9°40 | 5°10 | 26°16 | 24° 4 | 24°41 | 14°38 | 12°D45 | 14°15 | 25°40 | 25°19 | S 19 |
| | | | | | | | | | | | | | | | | |
| S 20 M21 | 19 53 22 19 57 18 | 27°40'01 28°37'20 | 29° 9 12 Ω 11 | 19°29 21° 2 | 28°D45 28°46 | 10°15 10°49 | 5°23 5°37 | 26°24 26°32 | 24° 4 24° 5 | 24°40 24°39 | 14°39 14°41 | 12°45 12°47 | 14°12 14° 9 | 25°47 25°54 | 25°19 25°20 | S 20 M21 |
| T 22 | 20 1 15 | 28°37'20 29°34'40 | 24°49 | 21° 2 22°33 | 28°50 | 10°49 11°24 | 5°50 | 26°32 26°40 | 24° 5 | 24°39 24°37 | 14°41 | 12°47 12°R48 | 14° 9 | 25°54 26° 0 | 25°20 | T 22 |
| W23 | 20 1 13 | $0\Omega_{32'00}$ | 7 M L10 | 24° 3 | 28°55 | 11°59 | 6° 3 | 26°47 | 24° 5 | 24°36 | 14°44 | 12°48 | 14° 2 | 26° 7 | 25°20 | W23 |
| T 24 | 20 9 8 | 1°29'21 | 19°17 | 25°30 | 29° 3 | 12°34 | 6°16 | 26°55 | 24° 6 | 24°34 | 14°45 | 12°46 | 13°59 | 26°14 | 25°21 | T 24 |
| F 25 | 20 13 4 | 2°26'43 | 1 × 716 | 26°56 | 29°13 | 13° 9 | 6°28 | 27° 3 | 24° 6 | 24°33 | 14°47 | 12°42 | 13°56 | 26°21 | 25°21 | F 25 |
| S 26 | 20 17 1 | 3°24'05 | 13° 9 | 28°19 | 29°25 | 13°44 | 6°41 | 27°11 | 24° 6 | 24°31 | 14°48 | 12°37 | 13°53 | 26°27 | 25°21 | S 26 |
| S 27 | 20 20 58 | 4°21'27 | 25° 1 | 29°41 | 29°39 | 14°20 | 6°54 | 27°18 | 24° 6 | 24°30 | 14°50 | 12°31 | 13°50 | 26°34 | 25°21 | S 27 |
| M28 | 20 24 54 | 5°18'51 | 6 ප 55 | 1 mp 1 | 29°55 | 14°55 | 7° 7 | 27°26 | 24° 6 | 24°28 | 14°51 | 12°25 | 13°46 | 26°41 | 25°21 | M28 |
| T 29 | 20 28 51 | 6°16'15 | 18°53 | 2°18 | 09512 | 15°31 | 7°20 | 27°34 | 24°R 6 | 24°27 | 14°53 | 12°18 | 13°43 | 26°47 | 25°R21 | T 29 |
| W30 | 20 32 47 | 7°13'40 | 0≈57 | 3°34 | 0°32 | 16° 7 | 7°32 | 27°42 | 24° 6 | 24°25 | 14°54 | 12°12 | 13°40 | 26°54 | 25°21 | W30 |
| T 31 | 20 36 44 | 8 Ω 11'06 | 13 ≈ 9 | 4 Mp 47 | 0ණ54 | 16 ≏ 43 | 7 95 45 | 279549 | 24 Y 6 | 24≈24 | 149556 | 12 m 8 | 13 m 37 | 27 √ 1 | 25 Y 21 | T 31 |

Delta T = 22.81 sec Greg. Calendar

AUGUST 1681 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)∤(| ¥. | Р | ß | Ω | Ç | ę, | Day |
|------|----------|------------|----------------|----------------|--------|----------------|--------|---------------|----------------|--------|-------|-----------------|----------------|----------------|----------------|------|
| F 1 | 20 40 40 | 9⋒ 8'34 | 25≈30 | 5 m 59 | 19917 | 17 ₽ 19 | 7958 | 27957 | 24°R 6 | 24°R22 | 14957 | 12°R 5 | 13 m 34 | 27 .₹ 8 | 25°R21 | F 1 |
| S 2 | 20 44 37 | 10° 6'02 | 8 ∺ 0 | 7° 7 | 1°42 | 17°55 | 8°10 | 28° 5 | 24 Y 6 | 24≈20 | 14°59 | 12°D 4 | 13°30 | 27°14 | 25 Y 21 | S 2 |
| S 3 | 20 48 33 | 11° 3'31 | 20°43 | 8°14 | 2° 8 | 18°32 | 8°23 | 28°12 | 24° 6 | 24°19 | 15° 0 | 12 mp 4 | 13°27 | 27°21 | 25°21 | S 3 |
| M 4 | 20 52 30 | 12° 1'02 | 3 Υ 38 | 9°18 | 2°36 | 19° 8 | 8°35 | 28°20 | 24° 6 | 24°17 | 15° 1 | 12° 5 | 13°24 | 27°28 | 25°20 | M 4 |
| T 5 | 20 56 26 | 12°58'33 | 16°48 | 10°20 | 3° 6 | 19°45 | 8°48 | 28°28 | 24° 5 | 24°16 | 15° 3 | 12° 7 | 13°21 | 27°34 | 25°20 | T 5 |
| W 6 | 21 0 23 | 13°56'07 | 0 8 15 | 11°18 | 3°37 | 20°21 | 9° 0 | 28°35 | 24° 5 | 24°14 | 15° 4 | 12° 8 | 13°18 | 27°41 | 25°20 | W 6 |
| T 7 | 21 4 20 | 14°53'42 | 14° 0 | 12°14 | 4°10 | 20°58 | 9°12 | 28°43 | 24° 5 | 24°12 | 15° 6 | 12°R 9 | 13°15 | 27°48 | 25°19 | T 7 |
| F 8 | 21 8 16 | 15°51'18 | 28° 3 | 13° 8 | 4°43 | 21°35 | 9°24 | 28°50 | 24° 4 | 24°11 | 15° 7 | 12° 8 | 13°11 | 27°55 | 25°19 | F 8 |
| S 9 | 21 12 13 | 16°48'56 | 12 Ⅱ 23 | 13°58 | 5°19 | 22°12 | 9°37 | 28°58 | 24° 4 | 24° 9 | 15° 8 | 12° 7 | 13° 8 | 28° 1 | 25°18 | S 9 |
| S 10 | 21 16 9 | 17°46'35 | 26°58 | 14°44 | 5°55 | 22°50 | 9°49 | 29° 5 | 24° 3 | 24° 8 | 15°10 | 12° 4 | 13° 5 | 28° 8 | 25°17 | S 10 |
| M11 | 21 20 6 | 18°44'16 | 119542 | 15°28 | 6°32 | 23°27 | 10° 1 | 29°13 | 24° 3 | 24° 6 | 15°11 | 12° 1 | 13° 2 | 28°15 | 25°17 | M11 |
| T 12 | 21 24 2 | 19°41'59 | 26°29 | 16° 7 | 7°11 | 24° 5 | 10°13 | 29°20 | 24° 2 | 24° 4 | 15°13 | 11°58 | 12°59 | 28°22 | 25°16 | T 12 |
| W13 | 21 27 59 | 20°39'43 | 11 Ω 12 | 16°43 | 7°51 | 24°42 | 10°25 | 29°28 | 24° 1 | 24° 3 | 15°14 | 11°55 | 12°56 | 28°28 | 25°15 | W13 |
| T 14 | 21 31 56 | 21°37'28 | 25°43 | 17°15 | 8°32 | 25°20 | 10°36 | 29°35 | 24° 1 | 24° 1 | 15°15 | 11°54 | 12°52 | 28°35 | 25°14 | T 14 |
| F 15 | 21 35 52 | 22°35'15 | 9 ₯ 56 | 17°42 | 9°14 | 25°58 | 10°48 | 29°43 | 24° 0 | 23°59 | 15°16 | 11°D53 | 12°49 | 28°42 | 25°13 | F 15 |
| S 16 | 21 39 49 | 23°33'03 | 23°47 | 18° 5 | 9°57 | 26°36 | 11° 0 | 29°50 | 23°59 | 23°58 | 15°18 | 11°53 | 12°46 | 28°48 | 25°13 | S 16 |
| S 17 | 21 43 45 | 24°30'52 | 7 ₽ 15 | 18°23 | 10°41 | 27°14 | 11°11 | 29°57 | 23°58 | 23°56 | 15°19 | 11°54 | 12°43 | 28°55 | 25°11 | S 17 |
| M18 | 21 47 42 | 25°28'43 | 20°19 | 18°37 | 11°25 | 27°52 | 11°23 | 0 Ω 5 | 23°57 | 23°55 | 15°20 | 11°56 | 12°40 | 29° 2 | 25°10 | M18 |
| T 19 | 21 51 38 | 26°26'34 | 3 m 1 | 18°44 | 12°11 | 28°30 | 11°34 | 0°12 | 23°56 | 23°53 | 15°22 | 11°57 | 12°36 | 29° 9 | 25° 9 | T 19 |
| W20 | 21 55 35 | 27°24'27 | 15°25 | 18°R47 | 12°58 | 29° 9 | 11°46 | 0°19 | 23°55 | 23°51 | 15°23 | 11°58 | 12°33 | 29°15 | 25° 8 | W20 |
| T 21 | 21 59 31 | 28°22'22 | 27°34 | 18°43 | 13°45 | 29°47 | 11°57 | 0°26 | 23°54 | 23°50 | 15°24 | 11°R58 | 12°30 | 29°22 | 25° 7 | T 21 |
| F 22 | 22 3 28 | 29°20'17 | 9 , ₹33 | 18°34 | 14°33 | 0 M .26 | 12° 8 | 0°34 | 23°53 | 23°48 | 15°25 | 11°58 | 12°27 | 29°29 | 25° 6 | F 22 |
| S 23 | 22 7 24 | 0 TD 18'14 | 21°27 | 18°19 | 15°22 | 1° 5 | 12°19 | 0°41 | 23°52 | 23°46 | 15°26 | 11°57 | 12°24 | 29°35 | 25° 4 | S 23 |
| S 24 | 22 11 21 | 1°16'12 | 3 ට 20 | 17°57 | 16°12 | 1°44 | 12°30 | 0°48 | 23°51 | 23°45 | 15°28 | 11°56 | 12°21 | 29°42 | 25° 3 | S 24 |
| M25 | 22 15 18 | 2°14'12 | 15°16 | 17°30 | 17° 2 | 2°23 | 12°41 | 0°55 | 23°50 | 23°43 | 15°29 | 11°55 | 12°17 | 29°49 | 25° 2 | M25 |
| T 26 | 22 19 14 | 3°12'13 | 27°18 | 16°57 | 17°53 | 3° 2 | 12°52 | 1° 2 | 23°48 | 23°41 | 15°30 | 11°53 | 12°14 | 29°56 | 25° 0 | T 26 |
| W27 | 22 23 11 | 4°10'16 | 9 ≈ 30 | 16°18 | 18°45 | 3°41 | 13° 3 | 1° 9 | 23°47 | 23°40 | 15°31 | 11°52 | 12°11 | 0중 2 | 24°59 | W27 |
| T 28 | 22 27 7 | 5° 8'20 | 21°53 | 15°33 | 19°37 | 4°20 | 13°14 | 1°16 | 23°46 | 23°38 | 15°32 | 11°52 | 12° 8 | 0° 9 | 24°57 | T 28 |
| F 29 | 22 31 4 | 6° 6'25 | 4 ∺ 29 | 14°44 | 20°30 | 5° 0 | 13°24 | 1°23 | 23°44 | 23°37 | 15°33 | 11°51 | 12° 5 | 0°16 | 24°55 | F 29 |
| S 30 | 22 35 0 | 7° 4'33 | 17°18 | 13°51 | 21°24 | 5°39 | 13°35 | 1°29 | 23°43 | 23°35 | 15°34 | 11°D51 | 12° 2 | 0°22 | 24°54 | S 30 |
| S 31 | 22 38 57 | 8Mp 2'42 | 0 Υ 22 | 12 M 55 | 229518 | 6 M .19 | 139545 | 1 Ω 36 | 23 Y 41 | 23≈33 | 15935 | 11 m)51 | 11 m 58 | 0 云 29 | 24 Y 52 | S 31 |

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SEPTEMBER 1681 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)∤(| ¥ | В | ß | v | ţ | ę, | Day |
|------|----------|-------------------|----------------|----------------|---------------------|----------------|--------|---------------|----------------|--------|--------|-----------------|----------------|----------------|----------------|------|
| M 1 | 22 42 53 | 9 m y 0'53 | 13 Y 40 | 11°R56 | 239513 | 6 M .58 | 139556 | 1 Ω 43 | 23°R40 | 23°R32 | 15936 | 11 m 52 | 11 m 55 | 0 ට 36 | 24°R50 | M 1 |
| T 2 | 22 46 50 | 9°59'06 | 27°10 | 10 m 57 | 24° 8 | 7°38 | 14° 6 | 1°50 | 23 Y 38 | 23≈30 | 15°37 | 11°52 | 11°52 | 0°43 | 24 Y 48 | T 2 |
| W 3 | 22 50 47 | 10°57'21 | 10853 | 9°58 | 25° 4 | 8°18 | 14°16 | 1°56 | 23°37 | 23°29 | 15°38 | 11°52 | 11°49 | 0°49 | 24°47 | W 3 |
| T 4 | 22 54 43 | 11°55'38 | 24°47 | 9° 1 | 26° 1 | 8°58 | 14°26 | 2° 3 | 23°35 | 23°27 | 15°39 | 11°R52 | 11°46 | 0°56 | 24°45 | T 4 |
| F 5 | 22 58 40 | 12°53'57 | 8 Ⅱ 51 | 8° 7 | 26°58 | 9°38 | 14°36 | 2° 9 | 23°33 | 23°26 | 15°40 | 11°D52 | 11°42 | 1° 3 | 24°43 | F 5 |
| S 6 | 23 2 36 | 13°52'18 | 23° 3 | 7°17 | 27°55 | 10°18 | 14°46 | 2°16 | 23°32 | 23°24 | 15°41 | 11°52 | 11°39 | 1° 9 | 24°41 | S 6 |
| S 7 | 23 6 33 | 14°50'42 | 79521 | 6°33 | 28°53 | 10°59 | 14°56 | 2°22 | 23°30 | 23°23 | 15°42 | 11°52 | 11°36 | 1°16 | 24°39 | S 7 |
| M 8 | 23 10 29 | 15°49'07 | 21°42 | 5°55 | 29°51 | 11°39 | 15° 5 | 2°29 | 23°28 | 23°21 | 15°43 | 11°53 | 11°33 | 1°23 | 24°37 | M 8 |
| T 9 | 23 14 26 | 16°47'35 | 6 Ω 2 | 5°25 | 0 Ω 50 | 12°20 | 15°15 | 2°35 | 23°26 | 23°20 | 15°44 | 11°53 | 11°30 | 1°30 | 24°35 | T 9 |
| W10 | 23 18 22 | 17°46'05 | 20°17 | 5° 4 | 1°49 | 13° 0 | 15°24 | 2°41 | 23°25 | 23°18 | 15°45 | 11°53 | 11°27 | 1°36 | 24°32 | W10 |
| T 11 | 23 22 19 | 18°44'37 | 4 Mp 24 | 4°51 | 2°49 | 13°41 | 15°33 | 2°48 | 23°23 | 23°17 | 15°45 | 11°54 | 11°23 | 1°43 | 24°30 | T 11 |
| F 12 | 23 26 16 | 19°43'11 | 18°18 | 4°D48 | 3°49 | 14°22 | 15°43 | 2°54 | 23°21 | 23°15 | 15°46 | 11°R54 | 11°20 | 1°50 | 24°28 | F 12 |
| S 13 | 23 30 12 | 20°41'46 | 1 ≏ 55 | 4°54 | 4°50 | 15° 3 | 15°52 | 3° 0 | 23°19 | 23°14 | 15°47 | 11°53 | 11°17 | 1°56 | 24°26 | S 13 |
| S 14 | 23 34 9 | 21°40'24 | 15°15 | 5°10 | 5°50 | 15°44 | 16° 0 | 3° 6 | 23°17 | 23°13 | 15°48 | 11°52 | 11°14 | 2° 3 | 24°23 | S 14 |
| M15 | 23 38 5 | 22°39'03 | 28°15 | 5°36 | 6°52 | 16°25 | 16° 9 | 3°12 | 23°15 | 23°11 | 15°49 | 11°51 | 11°11 | 2°10 | 24°21 | M15 |
| T 16 | 23 42 2 | 23°37'45 | 10 M 56 | 6°10 | 7°53 | 17° 6 | 16°18 | 3°18 | 23°13 | 23°10 | 15°49 | 11°50 | 11° 7 | 2°17 | 24°19 | T 16 |
| W17 | 23 45 58 | 24°36'28 | 23°20 | 6°54 | 8°55 | 17°47 | 16°27 | 3°24 | 23°11 | 23° 8 | 15°50 | 11°48 | 11° 4 | 2°23 | 24°16 | W17 |
| T 18 | 23 49 55 | 25°35'13 | 5 ₹ 31 | 7°45 | 9°57 | 18°29 | 16°35 | 3°29 | 23° 9 | 23° 7 | 15°51 | 11°47 | 11° 1 | 2°30 | 24°14 | T 18 |
| F 19 | 23 53 51 | 26°33'59 | 17°31 | 8°45 | 11° 0 | 19°10 | 16°43 | 3°35 | 23° 7 | 23° 6 | 15°51 | 11°46 | 10°58 | 2°37 | 24°11 | F 19 |
| S 20 | 23 57 48 | 27°32'48 | 29°25 | 9°51 | 12° 3 | 19°52 | 16°51 | 3°41 | 23° 5 | 23° 5 | 15°52 | 11°D45 | 10°55 | 2°43 | 24° 9 | S 20 |
| S 21 | 0 1 44 | 28°31'38 | 11 궁 17 | 11° 4 | 13° 6 | 20°33 | 16°59 | 3°46 | 23° 2 | 23° 3 | 15°53 | 11°46 | 10°52 | 2°50 | 24° 6 | S 21 |
| M22 | 0 5 41 | 29°30'30 | 23°13 | 12°23 | 14° 9 | 21°15 | 17° 7 | 3°52 | 23° 0 | 23° 2 | 15°53 | 11°47 | 10°48 | 2°57 | 24° 4 | M22 |
| T 23 | 0 9 38 | 0 ≏ 29'23 | 5≈17 | 13°47 | 15°13 | 21°57 | 17°15 | 3°57 | 22°58 | 23° 1 | 15°54 | 11°48 | 10°45 | 3° 4 | 24° 1 | T 23 |
| W24 | 0 13 34 | 1°28'19 | 17°33 | 15°15 | 16°17 | 22°39 | 17°23 | 4° 3 | 22°56 | 23° 0 | 15°54 | 11°50 | 10°42 | 3°10 | 23°59 | W24 |
| T 25 | 0 17 31 | 2°27'16 | 0 ∀ 5 | 16°47 | 17°21 | 23°21 | 17°30 | 4° 8 | 22°54 | 22°58 | 15°55 | 11°51 | 10°39 | 3°17 | 23°56 | T 25 |
| F 26 | 0 21 27 | 3°26'15 | 12°54 | 18°22 | 18°26 | 24° 3 | 17°38 | 4°13 | 22°51 | 22°57 | 15°55 | 11°R52 | 10°36 | 3°24 | 23°53 | F 26 |
| S 27 | 0 25 24 | 4°25'16 | 26° 2 | 20° 0 | 19°31 | 24°45 | 17°45 | 4°18 | 22°49 | 22°56 | 15°56 | 11°51 | 10°33 | 3°30 | 23°51 | S 27 |
| S 28 | 0 29 20 | 5°24'19 | 9Υ29 | 21°40 | 20°36 | 25°27 | 17°52 | 4°23 | 22°47 | 22°55 | 15°56 | 11°49 | 10°29 | 3°37 | 23°48 | S 28 |
| M29 | 0 33 17 | 6°23'24 | 23°14 | 23°22 | 21°42 | 26°10 | 17°59 | 4°28 | 22°45 | 22°54 | 15°57 | 11°46 | 10°26 | 3°44 | 23°45 | M29 |
| T 30 | 0 37 13 | 7 ≏ 22'31 | 7 8 12 | 25Mp 6 | 22 \Omega 47 | 26M52 | 1895 6 | 4 Ω 33 | 22 Y 42 | 22≈53 | 159557 | 11 m /43 | 10 m 23 | 3 ප් 51 | 23 Y 43 | T 30 |

Delta T = 22.72 sec Greg. Calendar

OCTOBER 1681 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ | Ж | 并 | Р | £ | ಬ | Ç | ę, | Day |
|------|---------|------------------|----------------|---------------|----------------|----------------|--------|---------------|----------------|--------|--------|----------------|---------------|---------------|----------------|------|
| W 1 | 0 41 10 | 8 ≏ 21'41 | 21820 | 26 Mp 50 | 23£53 | 27 M 35 | 189512 | 4 Ω 38 | 22°R40 | 22°R52 | 159558 | 11°R39 | 10 Mp 20 | 3 ප 57 | 23°R40 | W 1 |
| T 2 | 0 45 7 | 9°20'53 | 5 Ⅱ 35 | 28°35 | 24°59 | 28°17 | 18°19 | 4°43 | 22 Y 38 | 22≈51 | 15°58 | 11 M 35 | 10°17 | 4° 4 | 23 Y 37 | T 2 |
| F 3 | 0 49 3 | 10°20'07 | 19°51 | 0 ჲ 20 | 26° 6 | 29° 0 | 18°25 | 4°47 | 22°35 | 22°50 | 15°58 | 11°33 | 10°13 | 4°11 | 23°34 | F 3 |
| S 4 | 0 53 0 | 11°19'23 | 499 6 | 2° 6 | 27°13 | 29°43 | 18°31 | 4°52 | 22°33 | 22°49 | 15°59 | 11°31 | 10°10 | 4°17 | 23°31 | S 4 |
| S 5 | 0 56 56 | 12°18'42 | 18°17 | 3°52 | 28°19 | 0 ∡ 125 | 18°37 | 4°57 | 22°30 | 22°48 | 15°59 | 11°D31 | 10° 7 | 4°24 | 23°29 | S 5 |
| M 6 | 1 0 53 | 13°18'04 | 2Ω 22 | 5°38 | 29°27 | 1° 8 | 18°43 | 5° 1 | 22°28 | 22°47 | 15°59 | 11°32 | 10° 4 | 4°31 | 23°26 | M 6 |
| T 7 | 1 4 49 | 14°17'27 | 16°19 | 7°23 | 0 ₯ 34 | 1°51 | 18°49 | 5° 5 | 22°26 | 22°46 | 15°59 | 11°34 | 10° 1 | 4°38 | 23°23 | T 7 |
| W 8 | 1 8 46 | 15°16'53 | 0 m y 8 | 9° 8 | 1°41 | 2°34 | 18°54 | 5°10 | 22°23 | 22°45 | 16° 0 | 11°35 | 9°58 | 4°44 | 23°20 | W 8 |
| T 9 | 1 12 42 | 16°16'21 | 13°47 | 10°53 | 2°49 | 3°18 | 19° 0 | 5°14 | 22°21 | 22°44 | 16° 0 | 11°R35 | 9°54 | 4°51 | 23°17 | T 9 |
| F 10 | 1 16 39 | 17°15'52 | 27°15 | 12°38 | 3°57 | 4° 1 | 19° 5 | 5°18 | 22°18 | 22°44 | 16° 0 | 11°34 | 9°51 | 4°58 | 23°14 | F 10 |
| S 11 | 1 20 36 | 18°15'24 | 10 ≏ 31 | 14°22 | 5° 5 | 4°44 | 19°10 | 5°22 | 22°16 | 22°43 | 16° 0 | 11°31 | 9°48 | 5° 4 | 23°11 | S 11 |
| S 12 | 1 24 32 | 19°14'58 | 23°34 | 16° 5 | 6°14 | 5°28 | 19°15 | 5°26 | 22°13 | 22°42 | 16° 0 | 11°27 | 9°45 | 5°11 | 23° 8 | S 12 |
| M13 | 1 28 29 | 20°14'35 | 6M23 | 17°48 | 7°22 | 6°11 | 19°19 | 5°29 | 22°11 | 22°41 | 16° 0 | 11°20 | 9°42 | 5°18 | 23° 6 | M13 |
| T 14 | 1 32 25 | 21°14'14 | 18°57 | 19°30 | 8°31 | 6°55 | 19°24 | 5°33 | 22° 8 | 22°41 | 16° 0 | 11°13 | 9°38 | 5°24 | 23° 3 | T 14 |
| W15 | 1 36 22 | 22°13'54 | 1 才 17 | 21°11 | 9°40 | 7°38 | 19°28 | 5°37 | 22° 6 | 22°40 | 16° 0 | 11° 6 | 9°35 | 5°31 | 23° 0 | W15 |
| T 16 | 1 40 18 | 23°13'36 | 13°26 | 22°52 | 10°49 | 8°22 | 19°33 | 5°40 | 22° 4 | 22°39 | 16°R 0 | 10°59 | 9°32 | 5°38 | 22°57 | T 16 |
| F 17 | 1 44 15 | 24°13'21 | 25°24 | 24°33 | 11°58 | 9° 6 | 19°37 | 5°44 | 22° 1 | 22°39 | 16° 0 | 10°53 | 9°29 | 5°45 | 22°54 | F 17 |
| S 18 | 1 48 11 | 25°13'07 | 7 云 17 | 26°13 | 13° 7 | 9°50 | 19°40 | 5°47 | 21°59 | 22°38 | 16° 0 | 10°49 | 9°26 | 5°51 | 22°51 | S 18 |
| S 19 | 1 52 8 | 26°12'54 | 19°8 | 27°52 | 14°17 | 10°34 | 19°44 | 5°50 | 21°56 | 22°38 | 16° 0 | 10°47 | 9°23 | 5°58 | 22°48 | S 19 |
| M20 | 1 56 4 | 27°12'44 | 1≈ 2 | 29°31 | 15°26 | 11°18 | 19°47 | 5°53 | 21°54 | 22°37 | 16° 0 | 10°D47 | 9°19 | 6° 5 | 22°45 | M20 |
| T 21 | 2 0 1 | 28°12'35 | 13° 4 | 1 M 9 | 16°36 | 12° 2 | 19°51 | 5°56 | 21°51 | 22°37 | 16° 0 | 10°48 | 9°16 | 6°11 | 22°42 | T 21 |
| W22 | 2 3 58 | 29°12'27 | 25°19 | 2°46 | 17°46 | 12°46 | 19°54 | 5°59 | 21°49 | 22°36 | 16° 0 | 10°49 | 9°13 | 6°18 | 22°39 | W22 |
| T 23 | 2 7 54 | 0 M 12'22 | 7 ∺ 52 | 4°23 | 18°56 | 13°30 | 19°57 | 6° 2 | 21°46 | 22°36 | 16° 0 | 10°R50 | 9°10 | 6°25 | 22°37 | T 23 |
| F 24 | 2 11 51 | 1°12'18 | 20°48 | 6° 0 | 20° 6 | 14°15 | 19°59 | 6° 5 | 21°44 | 22°36 | 16° 0 | 10°50 | 9° 7 | 6°32 | 22°34 | F 24 |
| S 25 | 2 15 47 | 2°12'16 | 4 ℃ 7 | 7°36 | 21°17 | 14°59 | 20° 2 | 6° 7 | 21°42 | 22°35 | 16° 0 | 10°47 | 9° 4 | 6°38 | 22°31 | S 25 |
| S 26 | 2 19 44 | 3°12'15 | 17°52 | 9°11 | 22°27 | 15°43 | 20° 4 | 6°10 | 21°39 | 22°35 | 15°59 | 10°43 | 9° 0 | 6°45 | 22°28 | S 26 |
| M27 | 2 23 40 | 4°12'17 | 1 8 59 | 10°46 | 23°38 | 16°28 | 20° 6 | 6°12 | 21°37 | 22°35 | 15°59 | 10°36 | 8°57 | 6°52 | 22°25 | M27 |
| T 28 | 2 27 37 | 5°12'20 | 16°25 | 12°21 | 24°49 | 17°12 | 20° 8 | 6°14 | 21°35 | 22°35 | 15°59 | 10°27 | 8°54 | 6°58 | 22°22 | T 28 |
| W29 | 2 31 33 | 6°12'25 | 1 II 3 | 13°55 | 26° 0 | 17°57 | 20°10 | 6°16 | 21°32 | 22°34 | 15°58 | 10°18 | 8°51 | 7° 5 | 22°20 | W29 |
| T 30 | 2 35 30 | 7°12'33 | 15°46 | 15°29 | 27°11 | 18°42 | 20°12 | 6°19 | 21°30 | 22°34 | 15°58 | 10°10 | 8°48 | 7°12 | 22°17 | T 30 |
| F 31 | 2 39 27 | 8M12'42 | 0925 | 17 M 2 | 28 m 22 | 19 ₹ 26 | 209513 | 6 Ω 21 | 21 Y 27 | 22≈34 | 159558 | 10 Mg 2 | 8 M 44 | 7 궁 18 | 22 Υ 14 | F 31 |

Delta T = 22.67 sec Greg. Calendar

NOVEMBER 1681 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| ¥ | В | ₽. | Ω | Ç | ę, | Day |
|--------------|--------------------|----------------------|-------------------------------------|-----------------------------|----------------|--------------------------|-----------------|---------------|----------------|----------------|----------------|---------------|----------------|--------------------------|----------------|--------------|
| S 1 | 2 43 23 | 9ML12'53 | 14955 | 18 M .35 | 29 m 33 | 20 × 11 | 20914 | 6 Ω 22 | 21°R25 | 22°R34 | 15°R57 | 9°R58 | 8 M /41 | 7 궁 25 | 22°R11 | S 1 |
| S 2 | 2 47 20 | 10°13'07 | 29°11 | 20° 8 | 0 ≏ 44 | 20°56 | 20°15 | 6°24 | 21 Y 23 | 22≈34 | 15957 | 9 m 55 | 8°38 | 7°32 | 22 Y 8 | S 2 |
| M 3 | 2 51 16 | 11°13'23 | 13 Ω 13 | 21°40 | 1°56 | 21°41 | 20°16 | 6°26 | 21°21 | 22°D34 | 15°57 | 9°D55 | 8°35 | 7°39 | 22° 6 | M 3 |
| T 4 | 2 55 13 | 12°13'40 | 26°58 | 23°12 | 3° 8 | 22°26 | 20°16 | 6°27 | 21°18 | 22°34 | 15°56 | 9°55 | 8°32 | 7°45 | 22° 3 | T 4 |
| W 5 T 6 | 2 59 9 3 3 6 | 13°14'00 14°14'21 | 10 m ₂ 9 23°46 | 24°43 26°14 | 4°19 5°31 | 23°11 23°56 | 20°17 20°R17 | 6°29 6°30 | 21°16 21°14 | 22°34 22°34 | 15°56 15°55 | 9°R56 9°55 | 8°29 8°25 | 7°52 7°59 | 22° 0 21°58 | W 5 T 6 |
| F 7 | 3 7 2 | 15°14'45 | 6 ₽ 51 | 20°14 27°45 | 6°43 | 24°42 | 20°17 | 6°31 | 21°12 | 22°34 | 15°55 | 9°52 | 8°22 | 8° 5 | 21°55 | F 7 |
| S 8 | 3 10 59 | 16°15'10 | 19°45 | 29°16 | 7°55 | 25°27 | 20°17 | 6°32 | 21°10 | 22°34 | 15°54 | 9°46 | 8°19 | 8°12 | 21°53 | S 8 |
| S 9 | 3 14 56 | 17°15'37 | 2 M 28 | 0 ₹ 46 | 9° 7 | 26°12 | 20°16 | 6°33 | 21° 7 | 22°34 | 15°54 | 9°37 | 8°16 | 8°19 | 21°50 | S 9 |
| M10 | 3 18 52 | 18°16'06 | 15° 0 | 2°16 | 10°20 | 26°58 | 20°16 | 6°34 | 21° 5 | 22°35 | 15°53 | 9°25 | 8°13 | 8°26 | 21°47 | M10 |
| T 11 | 3 22 49 | 19°16'37 | 27°23 | 3°45 | 11°32 | 27°43 | 20°15 | 6°35 | 21° 3 | 22°35 | 15°52 | 9°12 | 8°10 | 8°32 | 21°45 | T 11 |
| W12 | 3 26 45 | 20°17'09 | 9 , 735 | 5°14 | 12°44 | 28°29 | 20°14 | 6°36 | 21° 1 | 22°35 | 15°52 | 8°59 | 8° 6 | 8°39 | 21°42 | W12 |
| T 13 | 3 30 42 | 21°17'43 | 21°38 | 6°43 | 13°57 | 29°14 | 20°13 | 6°36 | 20°59 | 22°36 | 15°51 | 8°46 | 8° 3 | 8°46 | 21°40 | T 13 |
| F 14 S 15 | 3 34 38 3 38 35 | 22°18'18 23°18'54 | 3 る 33 15°24 | 8°11 9°39 | 15°10 16°22 | 29°59 0 る 45 | 20°11 20°10 | 6°36 6°37 | 20°57 20°55 | 22°36 22°36 | 15°51 15°50 | 8°35 8°26 | 8° 0 7°57 | 8°52 8°59 | 21°38 21°35 | F 14 S 15 |
| | | | | | - | | | | | | | | | | | |
| S 16 | 3 42 31 | 24°19'32 | 27°12 | 11° 6 | 17°35 | 1°31 | 20° 8 | 6°37 | 20°53 | 22°37 | 15°49 | 8°20 | 7°54 | 9° 6 | 21°33 | S 16 |
| M17 | 3 46 28 | 25°20'11 26°20'51 | 9 ≈ 3 21° 2 | 12°32 13°58 | 18°48 20° 1 | 2°17 3° 3 | 20° 6 20° 4 | 6°R37 6°37 | 20°51 20°49 | 22°37 22°38 | 15°48 15°48 | 8°17 8°16 | 7°50 7°47 | 9°12 | 21°31 21°28 | M17 T 18 |
| T 18 W19 | 3 50 25 3 54 21 | 26°20'31 27°21'32 | 3) 13 | 15°23 | 20° 1 21°14 | 3°49 | 20° 4 20° 1 | 6°37 | 20°49 20°48 | 22°38 | 15°48 15°47 | 8°16 | 7°44 | 9°19 9°26 | 21°28 21°26 | W19 |
| T 20 | 3 58 18 | 28°22'14 | 15°42 | 16°48 | 21°14 22°27 | 4°35 | 19°59 | 6°37 | 20°46 | 22°39 | 15°46 | 8°16 | 7°41 | 9°33 | 21°24 | T 20 |
| F 21 | 4 2 14 | 29°22'57 | 28°35 | 18°11 | 23°40 | 5°21 | 19°56 | 6°36 | 20°44 | 22°39 | 15°45 | 8°14 | 7°38 | 9°39 | 21°22 | F 21 |
| S 22 | 4 6 11 | 0 ₹ 23'42 | 11 Y 54 | 19°34 | 24°53 | 6° 7 | 19°53 | 6°36 | 20°42 | 22°40 | 15°44 | 8°11 | 7°35 | 9°46 | 21°20 | S 22 |
| S 23 | 4 10 7 | 1°24'27 | 25°43 | 20°55 | 26° 6 | 6°53 | 19°50 | 6°35 | 20°41 | 22°41 | 15°44 | 8° 4 | 7°31 | 9°53 | 21°18 | S 23 |
| M24 | 4 14 4 | 2°25'13 | 108 1 | 22°14 | 27°20 | 7°39 | 19°46 | 6°34 | 20°39 | 22°41 | 15°43 | 7°55 | 7°28 | 9°59 | 21°16 | M24 |
| T 25 | 4 18 0 | 3°26'01 | 24°44 | 23°33 | 28°33 | 8°25 | 19°43 | 6°34 | 20°37 | 22°42 | 15°42 | 7°44 | 7°25 | 10° 6 | 21°14 | T 25 |
| W26 | 4 21 57 | 4°26'50 | 9 ∏ 43 | 24°49 | 29°46 | 9°11 | 19°39 | 6°33 | 20°36 | 22°43 | 15°41 | 7°32 | 7°22 | 10°13 | 21°12 | W26 |
| T 27 | 4 25 54 | 5°27'40 | 24°51 | 26° 3 | 1M 0 | 9°57 | 19°35 | 6°32 | 20°34 | 22°44 | 15°40 | 7°21 | 7°19 | 10°19 | 21°10 | T 27 |
| F 28 S 29 | 4 29 50 4 33 47 | 6°28'31 7°29'24 | 9 © 56 24°48 | 27°15 28°24 | 2°14 3°27 | 10°44 11°30 | 19°31 19°27 | 6°30 6°29 | 20°33 20°31 | 22°44 22°45 | 15°39 15°38 | 7°11 7°4 | 7°15 7°12 | 10°26 10°33 | 21° 8 21° 6 | F 28 S 29 |
| S 30 | 4 37 43 | 8 / 30'18 | 9 \Omega 22 | 29 × ⁷ 30 | 4 M .41 | 11 30 12 පි 16 | 19522 | 6 Ω 28 | 20 ° 30 | 22 ≈ 46 | 15937 | 7 Mg 0 | 7 mg 9 | 10 33 10 පි 40 | 21° 4 | S 30 |

Delta T = 22.63 sec

Greg. Calendar

| DECEMBER 1681 GC | 00:00 UT |
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| DECEMBER 1001 AC | 00:00 01 |

| Day | Sid.t | 0 | D | ğ | · | o [™] | 4 | ħ |)ұ(| ¥ | В | V | v | Ç | Ŷ, | Day |
|------|---------|-------------------|------------------|-----------------|----------------|----------------|--------|---------------|----------------|-------|--------|---------------|---------------|----------------|---------------|------|
| M 1 | 4 41 40 | 9 ,7 31'13 | 23€33 | 0 궁 32 | 5 M .55 | 13る 3 | 19°R17 | 6°R26 | 20°R29 | 22≈47 | 15°R36 | 6°R58 | 7MD 6 | 10 궁 46 | 21°R 3 | M 1 |
| T 2 | 4 45 36 | 10°32'10 | 7 m 21 | 1°30 | 7° 8 | 13°49 | 199513 | $6\Omega 25$ | 20 ℃ 27 | 22°48 | 15935 | 6 m 58 | 7° 3 | 10°53 | 21 Υ 1 | T 2 |
| W 3 | 4 49 33 | 11°33'07 | 20°47 | 2°23 | 8°22 | 14°36 | 19° 8 | 6°23 | 20°26 | 22°49 | 15°34 | 6°58 | 7° 0 | 11° 0 | 20°59 | W 3 |
| T 4 | 4 53 29 | 12°34'06 | 3 ₾ 54 | 3°10 | 9°36 | 15°22 | 19° 3 | 6°21 | 20°25 | 22°50 | 15°33 | 6°56 | 6°56 | 11° 6 | 20°58 | T 4 |
| F 5 | 4 57 26 | 13°35'06 | 16°45 | 3°51 | 10°50 | 16° 9 | 18°57 | 6°19 | 20°23 | 22°51 | 15°32 | 6°53 | 6°53 | 11°13 | 20°56 | F 5 |
| S 6 | 5 1 23 | 14°36'08 | 29°22 | 4°25 | 12° 4 | 16°56 | 18°52 | 6°17 | 20°22 | 22°52 | 15°31 | 6°46 | 6°50 | 11°20 | 20°55 | S 6 |
| S 7 | 5 5 19 | 15°37'10 | 11 ML 48 | 4°51 | 13°18 | 17°42 | 18°46 | 6°15 | 20°21 | 22°53 | 15°30 | 6°37 | 6°47 | 11°26 | 20°53 | S 7 |
| M 8 | 5 9 16 | 16°38'13 | 24° 5 | 5° 8 | 14°32 | 18°29 | 18°40 | 6°13 | 20°20 | 22°54 | 15°29 | 6°24 | 6°44 | 11°33 | 20°52 | M 8 |
| T 9 | 5 13 12 | 17°39'18 | 6 ₮ 14 | 5°R16 | 15°46 | 19°16 | 18°34 | 6°11 | 20°19 | 22°56 | 15°28 | 6°10 | 6°41 | 11°40 | 20°51 | T 9 |
| W10 | 5 17 9 | 18°40'23 | 18°17 | 5°13 | 17° 0 | 20° 2 | 18°28 | 6° 8 | 20°18 | 22°57 | 15°27 | 5°55 | 6°37 | 11°47 | 20°50 | W10 |
| T 11 | 5 21 5 | 19°41'28 | 0 궁 14 | 4°58 | 18°15 | 20°49 | 18°22 | 6° 6 | 20°17 | 22°58 | 15°26 | 5°41 | 6°34 | 11°53 | 20°48 | T 11 |
| F 12 | 5 25 2 | 20°42'35 | 12° 6 | 4°33 | 19°29 | 21°36 | 18°16 | 6° 3 | 20°16 | 22°59 | 15°25 | 5°29 | 6°31 | 12° 0 | 20°47 | F 12 |
| S 13 | 5 28 58 | 21°43'42 | 23°55 | 3°55 | 20°43 | 22°23 | 18° 9 | 6° 0 | 20°16 | 23° 1 | 15°23 | 5°19 | 6°28 | 12° 7 | 20°46 | S 13 |
| S 14 | 5 32 55 | 22°44'49 | 5≈43 | 3° 6 | 21°57 | 23°10 | 18° 3 | 5°57 | 20°15 | 23° 2 | 15°22 | 5°12 | 6°25 | 12°13 | 20°45 | S 14 |
| M15 | 5 36 52 | 23°45'57 | 17°34 | 2° 7 | 23°12 | 23°57 | 17°56 | 5°54 | 20°14 | 23° 3 | 15°21 | 5° 8 | 6°21 | 12°20 | 20°44 | M15 |
| T 16 | 5 40 48 | 24°47'04 | 29°31 | 0°59 | 24°26 | 24°44 | 17°49 | 5°51 | 20°13 | 23° 5 | 15°20 | 5° 7 | 6°18 | 12°27 | 20°43 | T 16 |
| W17 | 5 44 45 | 25°48'13 | 11) (40 | 29 × 743 | 25°40 | 25°31 | 17°42 | 5°48 | 20°13 | 23° 6 | 15°19 | 5°D 7 | 6°15 | 12°33 | 20°42 | W17 |
| T 18 | 5 48 41 | 26°49'21 | 24° 5 | 28°23 | 26°55 | 26°18 | 17°35 | 5°45 | 20°12 | 23° 7 | 15°17 | 5°R 7 | 6°12 | 12°40 | 20°42 | T 18 |
| F 19 | 5 52 38 | 27°50'29 | 6 Υ 51 | 27° 1 | 28° 9 | 27° 5 | 17°28 | 5°42 | 20°12 | 23° 9 | 15°16 | 5° 7 | 6° 9 | 12°47 | 20°41 | F 19 |
| S 20 | 5 56 34 | 28°51'38 | 20° 3 | 25°39 | 29°24 | 27°52 | 17°20 | 5°39 | 20°11 | 23°10 | 15°15 | 5° 5 | 6° 6 | 12°54 | 20°40 | S 20 |
| S 21 | 6 0 31 | 29°52'46 | 3 8 45 | 24°20 | 0 ∡ 38 | 28°39 | 17°13 | 5°35 | 20°11 | 23°12 | 15°14 | 5° 0 | 6° 2 | 13° 0 | 20°40 | S 21 |
| M22 | 6 4 27 | 0 궁 53'55 | 17°57 | 23° 8 | 1°53 | 29°26 | 17° 6 | 5°32 | 20°10 | 23°13 | 15°13 | 4°53 | 5°59 | 13° 7 | 20°39 | M22 |
| T 23 | 6 8 24 | 1°55'03 | 2耳38 | 22° 2 | 3° 7 | 0≈13 | 16°58 | 5°28 | 20°10 | 23°15 | 15°11 | 4°44 | 5°56 | 13°14 | 20°39 | T 23 |
| W24 | 6 12 21 | 2°56'12 | 17°41 | 21° 6 | 4°22 | 1° 0 | 16°50 | 5°24 | 20°10 | 23°17 | 15°10 | 4°35 | 5°53 | 13°20 | 20°38 | W24 |
| T 25 | 6 16 17 | 3°57'21 | 2 9 59 | 20°20 | 5°36 | 1°48 | 16°43 | 5°21 | 20°10 | 23°18 | 15° 9 | 4°25 | 5°50 | 13°27 | 20°38 | T 25 |
| F 26 | 6 20 14 | 4°58'30 | 18°18 | 19°44 | 6°51 | 2°35 | 16°35 | 5°17 | 20° 9 | 23°20 | 15° 8 | 4°17 | 5°47 | 13°34 | 20°37 | F 26 |
| S 27 | 6 24 10 | 5°59'39 | 3 Ω 29 | 19°19 | 8° 5 | 3°22 | 16°27 | 5°13 | 20° 9 | 23°22 | 15° 6 | 4°11 | 5°43 | 13°40 | 20°37 | S 27 |
| S 28 | 6 28 7 | 7° 0'48 | 18°22 | 19° 3 | 9°20 | 4° 9 | 16°19 | 5° 9 | 20° 9 | 23°23 | 15° 5 | 4° 7 | 5°40 | 13°47 | 20°37 | S 28 |
| M29 | 6 32 3 | 8° 1'58 | 2 m 50 | 18°D58 | 10°35 | 4°56 | 16°11 | 5° 5 | 20°D 9 | 23°25 | 15° 4 | 4°D 6 | 5°37 | 13°54 | 20°37 | M29 |
| T 30 | 6 36 0 | 9° 3'07 | 16°51 | 19° 2 | 11°49 | 5°44 | 16° 3 | 5° 1 | 20° 9 | 23°27 | 15° 3 | 4° 7 | 5°34 | 14° 1 | 20°37 | T 30 |
| W31 | 6 39 57 | 10궁 4'17 | 0 ჲ 25 | 19 ,7 14 | 13 × 4 | 6≈31 | 15955 | 4 Ω 56 | 20 Υ 9 | 23≈28 | 1599 1 | 4M) 8 | 5 m 31 | 14궁 7 | 20°D37 | W31 |

Delta T = 22.58 sec

JANUARY 1682 GC 00:00 UT

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|------|---------|------------------|-----------------|----------------|----------------|---------------|--------|---------------|----------------|-------|--------|-----------------|-----------------|----------------|----------------|------|
| T 1 | 6 43 53 | 11 る 5'27 | 13 ≏ 35 | 19 × 34 | 14 × 19 | 7≈18 | 15°R47 | 4°R52 | 20 Υ 9 | 23≈30 | 15°R 0 | 4°R 8 | 5 m) 27 | 14 궁 14 | 20 Y 37 | T 1 |
| F 2 | 6 47 50 | 12° 6'37 | 26°23 | 20° 1 | 15°33 | 8° 5 | 15939 | $4\Omega48$ | 20°10 | 23°32 | 149559 | 4Mp 7 | 5°24 | 14°21 | 20°37 | F 2 |
| S 3 | 6 51 46 | 13° 7'48 | 8 M .53 | 20°34 | 16°48 | 8°53 | 15°31 | 4°44 | 20°10 | 23°34 | 14°57 | 4° 4 | 5°21 | 14°27 | 20°37 | S 3 |
| S 4 | 6 55 43 | 14° 8'58 | 21°11 | 21°13 | 18° 3 | 9°40 | 15°23 | 4°39 | 20°10 | 23°36 | 14°56 | 3°58 | 5°18 | 14°34 | 20°37 | S 4 |
| M 5 | 6 59 39 | 15°10'08 | 3 ∡ 18 | 21°58 | 19°18 | 10°27 | 15°15 | 4°35 | 20°11 | 23°38 | 14°55 | 3°50 | 5°15 | 14°41 | 20°38 | M 5 |
| T 6 | 7 3 36 | 16°11'19 | 15°17 | 22°46 | 20°33 | 11°15 | 15° 7 | 4°30 | 20°11 | 23°39 | 14°54 | 3°41 | 5°12 | 14°47 | 20°38 | T 6 |
| W 7 | 7 7 32 | 17°12'29 | 27°12 | 23°39 | 21°47 | 12° 2 | 14°59 | 4°26 | 20°11 | 23°41 | 14°52 | 3°31 | 5° 8 | 14°54 | 20°38 | W 7 |
| T 8 | 7 11 29 | 18°13'39 | 9 ට 3 | 24°36 | 23° 2 | 12°50 | 14°51 | 4°21 | 20°12 | 23°43 | 14°51 | 3°22 | 5° 5 | 15° 1 | 20°39 | T 8 |
| F 9 | 7 15 26 | 19°14'48 | 20°53 | 25°36 | 24°17 | 13°37 | 14°43 | 4°16 | 20°13 | 23°45 | 14°50 | 3°14 | 5° 2 | 15° 7 | 20°39 | F 9 |
| S 10 | 7 19 22 | 20°15'57 | 2≈43 | 26°38 | 25°32 | 14°24 | 14°35 | 4°12 | 20°13 | 23°47 | 14°49 | 3° 8 | 4°59 | 15°14 | 20°40 | S 10 |
| S 11 | 7 23 19 | 21°17'06 | 14°35 | 27°44 | 26°47 | 15°12 | 14°27 | 4° 7 | 20°14 | 23°49 | 14°47 | 3° 3 | 4°56 | 15°21 | 20°40 | S 11 |
| M12 | 7 27 15 | 22°18'13 | 26°32 | 28°52 | 28° 1 | 15°59 | 14°19 | 4° 2 | 20°15 | 23°51 | 14°46 | 3° 2 | 4°53 | 15°28 | 20°41 | M12 |
| T 13 | 7 31 12 | 23°19'20 | 8) (34 | 0중 2 | 29°16 | 16°47 | 14°11 | 3°57 | 20°15 | 23°53 | 14°45 | 3°D 1 | 4°49 | 15°34 | 20°42 | T 13 |
| W14 | 7 35 8 | 24°20'27 | 20°47 | 1°14 | 0 궁 31 | 17°34 | 14° 3 | 3°53 | 20°16 | 23°55 | 14°43 | 3° 3 | 4°46 | 15°41 | 20°43 | W14 |
| T 15 | 7 39 5 | 25°21'32 | 3 Ƴ 14 | 2°28 | 1°46 | 18°21 | 13°55 | 3°48 | 20°17 | 23°57 | 14°42 | 3° 4 | 4°43 | 15°48 | 20°44 | T 15 |
| F 16 | 7 43 1 | 26°22'36 | 15°58 | 3°43 | 3° 1 | 19° 9 | 13°47 | 3°43 | 20°18 | 23°59 | 14°41 | 3° 6 | 4°40 | 15°54 | 20°45 | F 16 |
| S 17 | 7 46 58 | 27°23'40 | 29° 5 | 5° 0 | 4°16 | 19°56 | 13°40 | 3°38 | 20°19 | 24° 1 | 14°40 | 3°R 6 | 4°37 | 16° 1 | 20°46 | S 17 |
| S 18 | 7 50 55 | 28°24'42 | 12 8 37 | 6°18 | 5°31 | 20°43 | 13°32 | 3°33 | 20°20 | 24° 4 | 14°38 | 3° 5 | 4°33 | 16° 8 | 20°47 | S 18 |
| M19 | 7 54 51 | 29°25'44 | 26°35 | 7°38 | 6°45 | 21°31 | 13°24 | 3°28 | 20°21 | 24° 6 | 14°37 | 3° 3 | 4°30 | 16°14 | 20°48 | M19 |
| T 20 | 7 58 48 | 0≈26'44 | 11 I 1 | 8°59 | 8° 0 | 22°18 | 13°17 | 3°23 | 20°22 | 24° 8 | 14°36 | 2°59 | 4°27 | 16°21 | 20°49 | T 20 |
| W21 | 8 2 44 | 1°27'43 | 25°50 | 10°21 | 9°15 | 23° 6 | 13°10 | 3°18 | 20°23 | 24°10 | 14°35 | 2°54 | 4°24 | 16°28 | 20°50 | W21 |
| T 22 | 8 6 41 | 2°28'42 | 109556 | 11°43 | 10°30 | 23°53 | 13° 2 | 3°14 | 20°25 | 24°12 | 14°34 | 2°50 | 4°21 | 16°34 | 20°51 | T 22 |
| F 23 | 8 10 37 | 3°29'39 | 26°11 | 13° 7 | 11°45 | 24°40 | 12°55 | 3° 9 | 20°26 | 24°14 | 14°32 | 2°46 | 4°18 | 16°41 | 20°53 | F 23 |
| S 24 | 8 14 34 | 4°30'35 | 11 \O 23 | 14°32 | 13° 0 | 25°28 | 12°48 | 3° 4 | 20°27 | 24°16 | 14°31 | 2°43 | 4°14 | 16°48 | 20°54 | S 24 |
| S 25 | 8 18 30 | 5°31'30 | 26°23 | 15°58 | 14°15 | 26°15 | 12°41 | 2°59 | 20°28 | 24°19 | 14°30 | 2°D42 | 4°11 | 16°54 | 20°55 | S 25 |
| M26 | 8 22 27 | 6°32'24 | 11 Mp 3 | 17°25 | 15°29 | 27° 2 | 12°34 | 2°54 | 20°30 | 24°21 | 14°29 | 2°42 | 4° 8 | 17° 1 | 20°57 | M26 |
| T 27 | 8 26 24 | 7°33'18 | 25°18 | 18°52 | 16°44 | 27°50 | 12°28 | 2°49 | 20°31 | 24°23 | 14°28 | 2°43 | 4° 5 | 17° 8 | 20°58 | T 27 |
| W28 | 8 30 20 | 8°34'10 | 9 ≙ 4 | 20°21 | 17°59 | 28°37 | 12°21 | 2°44 | 20°33 | 24°25 | 14°26 | 2°44 | 4° 2 | 17°15 | 21° 0 | W28 |
| T 29 | 8 34 17 | 9°35'02 | 22°24 | 21°50 | 19°14 | 29°24 | 12°15 | 2°39 | 20°34 | 24°27 | 14°25 | 2°46 | 3°59 | 17°21 | 21° 2 | T 29 |
| F 30 | 8 38 13 | 10°35'53 | 5 M 18 | 23°20 | 20°29 | 0 ∺ 12 | 12° 8 | 2°34 | 20°36 | 24°30 | 14°24 | 2°R47 | 3°55 | 17°28 | 21° 3 | F 30 |
| S 31 | 8 42 10 | 11≈36'43 | 17 M 52 | 24 궁 51 | 21 궁 44 | 0 ∺ 59 | 1295 2 | 2 Ω 30 | 20 Y 38 | 24≈32 | 149523 | 2 M) 47 | 3 M 52 | 17 る 35 | 21 Y 5 | S 31 |

Delta T = 22.53 sec

Greg. Calendar

| FEBRUARY 1682 GC | 00:00 UT |
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| Day | Sid.t | 0 | D | φ | φ | δ | 4 | ħ |)ұ(| ¥ | Р | Ç, | Ω | Ç | Š. | Day |
|------|----------|--------------------|-----------------|----------------|----------------|----------------|--------|-----------------------------------|----------------|-------|--------|---------------|---------------|----------------|----------------|------|
| S 1 | 8 46 6 | 12≈37'32 | 0 才 8 | 26 궁 23 | 22 궁 59 | 1) 46 | 11°R56 | 2°R25 | 20 Y 39 | 24≈34 | 14°R22 | 2°R46 | 3 m 49 | 17 ਰ 41 | 21 ° 7 | S 1 |
| M 2 | 8 50 3 | 13°38'20 | 12°12 | 27°55 | 24°14 | 2°33 | 119550 | $2\Omega 20$ | 20°41 | 24°36 | 149521 | 2 Mp 44 | 3°46 | 17°48 | 21° 9 | M 2 |
| T 3 | 8 53 59 | 14°39'07 | 24° 8 | 29°28 | 25°29 | 3°21 | 11°44 | 2°15 | 20°43 | 24°39 | 14°20 | 2°41 | 3°43 | 17°55 | 21°11 | T 3 |
| W 4 | 8 57 56 | 15°39'53 | 5 궁 58 | 1≈ 2 | 26°43 | 4° 8 | 11°39 | 2°10 | 20°45 | 24°41 | 14°19 | 2°38 | 3°39 | 18° 1 | 21°13 | W 4 |
| T 5 | 9 1 53 | 16°40'37 | 17°47 | 2°37 | 27°58 | 4°55 | 11°33 | 2° 6 | 20°47 | 24°43 | 14°18 | 2°35 | 3°36 | 18° 8 | 21°15 | T 5 |
| F 6 | 9 5 49 | 17°41'21 | 29°37 | 4°13 | 29°13 | 5°42 | 11°28 | 2° 1 | 20°49 | 24°45 | 14°17 | 2°33 | 3°33 | 18°15 | 21°17 | F 6 |
| S 7 | 9 9 46 | 18°42'03 | 11≈31 | 5°49 | 0≈28 | 6°30 | 11°23 | 1°56 | 20°51 | 24°48 | 14°16 | 2°31 | 3°30 | 18°21 | 21°19 | S 7 |
| S 8 | 9 13 42 | 19°42'44 | 23°31 | 7°27 | 1°43 | 7°17 | 11°18 | 1°52 | 20°53 | 24°50 | 14°15 | 2°30 | 3°27 | 18°28 | 21°21 | S 8 |
| M 9 | 9 17 39 | 20°43'23 | 5) (37 | 9° 5 | 2°58 | 8° 4 | 11°13 | 1°47 | 20°55 | 24°52 | 14°13 | 2°D30 | 3°24 | 18°35 | 21°23 | M 9 |
| T 10 | 9 21 35 | 21°44'01 | 17°52 | 10°44 | 4°13 | 8°51 | 11° 8 | 1°43 | 20°57 | 24°54 | 14°13 | 2°31 | 3°20 | 18°41 | 21°26 | T 10 |
| W11 | 9 25 32 | 22°44'37 | 0 Υ 19 | 12°24 | 5°28 | 9°38 | 11° 4 | 1°38 | 20°59 | 24°57 | 14°12 | 2°31 | 3°17 | 18°48 | 21°28 | W11 |
| T 12 | 9 29 28 | 23°45'12 | 12°57 | 14° 4 | 6°42 | 10°25 | 11° 0 | 1°34 | 21° 1 | 24°59 | 14°11 | 2°32 | 3°14 | 18°55 | 21°30 | T 12 |
| F 13 | 9 33 25 | 24°45'44 | 25°51 | 15°46 | 7°57 | 11°12 | 10°56 | 1°30 | 21° 3 | 25° 1 | 14°10 | 2°33 | 3°11 | 19° 1 | 21°33 | F 13 |
| S 14 | 9 37 22 | 25°46'15 | 9 8 2 | 17°28 | 9°12 | 11°59 | 10°52 | 1°25 | 21° 5 | 25° 3 | 14° 9 | 2°34 | 3° 8 | 19° 8 | 21°35 | S 14 |
| S 15 | 9 41 18 | 26°46'44 | 22°31 | 19°12 | 10°27 | 12°46 | 10°48 | 1°21 | 21° 8 | 25° 6 | 14° 8 | 2°R34 | 3° 5 | 19°15 | 21°38 | S 15 |
| M16 | 9 45 15 | 27°47'11 | 6 Ⅱ 20 | 20°56 | 11°42 | 13°33 | 10°44 | 1°17 | 21°10 | 25° 8 | 14° 7 | 2°34 | 3° 1 | 19°22 | 21°40 | M16 |
| T 17 | 9 49 11 | 28°47'37 | 20°30 | 22°42 | 12°57 | 14°20 | 10°41 | 1°13 | 21°12 | 25°10 | 14° 6 | 2°34 | 2°58 | 19°28 | 21°43 | T 17 |
| W18 | 9 53 8 | 29°48'00 | 4957 | 24°28 | 14°11 | 15° 7 | 10°38 | 1° 9 | 21°15 | 25°13 | 14° 5 | 2°34 | 2°55 | 19°35 | 21°45 | W18 |
| T 19 | 9 57 4 | 0) (48′21 | 19°40 | 26°15 | 15°26 | 15°54 | 10°35 | 1° 5 | 21°17 | 25°15 | 14° 4 | 2°33 | 2°52 | 19°42 | 21°48 | T 19 |
| F 20 | 10 1 1 | 1°48'41 | 4 Ω 32 | 28° 3 | 16°41 | 16°41 | 10°32 | 1° 1 | 21°20 | 25°17 | 14° 4 | 2°33 | 2°49 | 19°48 | 21°51 | F 20 |
| S 21 | 10 4 57 | 2°48'58 | 19°27 | 29°53 | 17°56 | 17°28 | 10°29 | 0°57 | 21°22 | 25°19 | 14° 3 | 2°D33 | 2°45 | 19°55 | 21°53 | S 21 |
| S 22 | 10 8 54 | 3°49'14 | 4 m) 16 | 1) 43 | 19°11 | 18°15 | 10°27 | 0°54 | 21°25 | 25°22 | 14° 2 | 2°R33 | 2°42 | 20° 2 | 21°56 | S 22 |
| M23 | 10 12 51 | 4°49'28 | 18°51 | 3°34 | 20°25 | 19° 2 | 10°25 | 0°50 | 21°27 | 25°24 | 14° 1 | 2°33 | 2°39 | 20° 8 | 21°59 | M23 |
| T 24 | 10 16 47 | 5°49'40 | 3 ₾ 7 | 5°26 | 21°40 | 19°48 | 10°23 | 0°46 | 21°30 | 25°26 | 14° 1 | 2°33 | 2°36 | 20°15 | 22° 2 | T 24 |
| W25 | 10 20 44 | 6°49'50 | 17° 0 | 7°19 | 22°55 | 20°35 | 10°21 | 0°43 | 21°33 | 25°28 | 14° 0 | 2°32 | 2°33 | 20°22 | 22° 5 | W25 |
| T 26 | 10 24 40 | 7°49'59 | 0 ™ 27 | 9°13 | 24°10 | 21°22 | 10°19 | 0°39 | 21°35 | 25°31 | 13°59 | 2°32 | 2°30 | 20°28 | 22° 8 | T 26 |
| F 27 | 10 28 37 | 8°50'06 | 13°29 | 11° 7 | 25°24 | 22° 8 | 10°18 | 0°36 | 21°38 | 25°33 | 13°58 | 2°31 | 2°26 | 2 <u>0</u> °35 | 22°11 | F 27 |
| S 28 | 10 32 33 | 9 米 50'12 | 26M 9 | 13 ¥ 3 | 26≈39 | 22 米 55 | 109516 | 0 Ω 33 | 21 Y 41 | 25≈35 | 139558 | 2 m 31 | 2 Mp 23 | 20 궁 42 | 22 Y 14 | S 28 |

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|------|----------|-------------------|----------------|------------------|---------------|------------------|--------|--------------|----------------|-------|--------|----------|---------------|-------|----------------|------|
| S 1 | 10 36 30 | 10 ¥ 50′16 | 8 ∡ ³30 | 14) (59 | 27≈54 | 23) (42 | 10°R15 | 0°R30 | 21 Y 44 | 25≈37 | 13°R57 | 2°D30 | 2 Mp 20 | 20중48 | 22 Y 17 | S 1 |
| M 2 | 10 40 26 | 11°50'18 | 20°35 | 16°55 | 29° 9 | 24°28 | 109515 | $0\Omega 27$ | 21°46 | 25°40 | 13957 | 2 Mp 3 1 | 2°17 | 20°55 | 22°20 | M 2 |
| T 3 | 10 44 23 | 12°50'19 | 2 ප 31 | 18°52 | 0 ∺ 23 | 25°15 | 10°14 | 0°24 | 21°49 | 25°42 | 13°56 | 2°31 | 2°14 | 21° 2 | 22°23 | T 3 |
| W 4 | 10 48 19 | 13°50'19 | 14°21 | 20°49 | 1°38 | 26° 1 | 10°13 | 0°21 | 21°52 | 25°44 | 13°55 | 2°32 | 2°10 | 21° 8 | 22°26 | W 4 |
| T 5 | 10 52 16 | 14°50'16 | 26°10 | 22°46 | 2°53 | 26°48 | 10°13 | 0°18 | 21°55 | 25°46 | 13°55 | 2°33 | 2° 7 | 21°15 | 22°29 | T 5 |
| F 6 | 10 56 13 | 15°50'12 | 8≈ 2 | 24°43 | 4° 7 | 27°34 | 10°D13 | 0°15 | 21°58 | 25°48 | 13°54 | 2°35 | 2° 4 | 21°22 | 22°32 | F 6 |
| S 7 | 11 0 9 | 16°50'06 | 20° 1 | 26°39 | 5°22 | 28°21 | 10°13 | 0°13 | 22° 1 | 25°50 | 13°54 | 2°35 | 2° 1 | 21°28 | 22°35 | S 7 |
| S 8 | 11 4 6 | 17°49'58 | 2 ∺ 9 | 28°35 | 6°37 | 29° 7 | 10°14 | 0°10 | 22° 4 | 25°53 | 13°53 | 2°R36 | 1°58 | 21°35 | 22°39 | S 8 |
| M 9 | 11 8 2 | 18°49'48 | 14°28 | 0 Υ 30 | 7°51 | 29°53 | 10°14 | 0° 8 | 22° 7 | 25°55 | 13°53 | 2°35 | 1°55 | 21°42 | 22°42 | M 9 |
| T 10 | 11 11 59 | 19°49'36 | 27° 0 | 2°23 | 9° 6 | 0 Υ 40 | 10°15 | 0° 5 | 22°10 | 25°57 | 13°53 | 2°34 | 1°51 | 21°48 | 22°45 | T 10 |
| W11 | 11 15 55 | 20°49'22 | 9 Ƴ 46 | 4°14 | 10°21 | 1°26 | 10°16 | 0° 3 | 22°13 | 25°59 | 13°52 | 2°32 | 1°48 | 21°55 | 22°49 | W11 |
| T 12 | 11 19 52 | 21°49'06 | 22°46 | 6° 2 | 11°35 | 2°12 | 10°17 | 0° 1 | 22°16 | 26° 1 | 13°52 | 2°29 | 1°45 | 22° 2 | 22°52 | T 12 |
| F 13 | 11 23 48 | 22°48'48 | 6 8 0 | 7°48 | 12°50 | 2°58 | 10°18 | 29959 | 22°19 | 26° 3 | 13°51 | 2°26 | 1°42 | 22° 8 | 22°55 | F 13 |
| S 14 | 11 27 45 | 23°48'28 | 19°27 | 9°31 | 14° 5 | 3°45 | 10°20 | 29°57 | 22°22 | 26° 5 | 13°51 | 2°23 | 1°39 | 22°15 | 22°59 | S 14 |
| S 15 | 11 31 42 | 24°48'05 | 3 II 6 | 11°10 | 15°19 | 4°31 | 10°21 | 29°55 | 22°25 | 26° 7 | 13°51 | 2°21 | 1°36 | 22°22 | 23° 2 | S 15 |
| M16 | 11 35 38 | 25°47'41 | 16°58 | 12°45 | 16°34 | 5°17 | 10°23 | 29°54 | 22°28 | 26° 9 | 13°50 | 2°20 | 1°32 | 22°29 | 23° 6 | M16 |
| T 17 | 11 39 35 | 26°47'13 | 195 0 | 14°15 | 17°48 | 6° 3 | 10°25 | 29°52 | 22°31 | 26°11 | 13°50 | 2°D20 | 1°29 | 22°35 | 23° 9 | T 17 |
| W18 | 11 43 31 | 27°46'44 | 15°12 | 15°40 | 19° 3 | 6°49 | 10°27 | 29°51 | 22°35 | 26°13 | 13°50 | 2°20 | 1°26 | 22°42 | 23°13 | W18 |
| T 19 | 11 47 28 | 28°46'12 | 29°33 | 17° 0 | 20°18 | 7°35 | 10°30 | 29°49 | 22°38 | 26°15 | 13°50 | 2°22 | 1°23 | 22°49 | 23°16 | T 19 |
| F 20 | 11 51 24 | 29°45'38 | 13 £ 58 | 18°13 | 21°32 | 8°21 | 10°32 | 29°48 | 22°41 | 26°17 | 13°50 | 2°23 | 1°20 | 22°55 | 23°20 | F 20 |
| S 21 | 11 55 21 | 0 Υ 45'01 | 28°25 | 19°21 | 22°47 | 9° 6 | 10°35 | 29°47 | 22°44 | 26°19 | 13°49 | 2°R24 | 1°16 | 23° 2 | 23°23 | S 21 |
| S 22 | 11 59 17 | 1°44'23 | 12 m 49 | 20°22 | 24° 1 | 9°52 | 10°38 | 29°46 | 22°48 | 26°21 | 13°49 | 2°24 | 1°13 | 23° 9 | 23°27 | S 22 |
| M23 | 12 3 14 | 2°43'42 | 27° 4 | 21°16 | 25°16 | 10°38 | 10°41 | 29°45 | 22°51 | 26°23 | 13°49 | 2°22 | 1°10 | 23°15 | 23°31 | M23 |
| T 24 | 12 7 11 | 3°42'58 | 11 ♀ 7 | 22° 4 | 26°30 | 11°24 | 10°45 | 29°44 | 22°54 | 26°25 | 13°49 | 2°19 | 1° 7 | 23°22 | 23°34 | T 24 |
| W25 | 12 11 7 | 4°42'13 | 24°52 | 22°44 | 27°44 | 12° 9 | 10°48 | 29°43 | 22°57 | 26°27 | 13°49 | 2°14 | 1° 4 | 23°29 | 23°38 | W25 |
| T 26 | 12 15 4 | 5°41'26 | 8 M J16 | 23°17 | 28°59 | 12°55 | 10°52 | 29°42 | 23° 1 | 26°29 | 13°49 | 2° 9 | 1° 1 | 23°35 | 23°42 | T 26 |
| F 27 | 12 19 0 | 6°40'37 | 21°20 | 23°43 | 0 Υ 13 | 13°41 | 10°56 | 29°42 | 23° 4 | 26°31 | 13°D49 | 2° 3 | 0°57 | 23°42 | 23°45 | F 27 |
| S 28 | 12 22 57 | 7°39'47 | 4 ₹ 2 | 24° 2 | 1°28 | 14°26 | 11° 0 | 29°42 | 23° 7 | 26°33 | 13°49 | 1°58 | 0°54 | 23°49 | 23°49 | S 28 |
| S 29 | 12 26 53 | 8°38'54 | 16°25 | 24°13 | 2°42 | 15°12 | 11° 4 | 29°41 | 23°11 | 26°34 | 13°49 | 1°54 | 0°51 | 23°55 | 23°53 | S 29 |
| M30 | 12 30 50 | 9°38'00 | 28°33 | 24°R17 | 3°57 | 15°57 | 11° 8 | 29°41 | 23°14 | 26°36 | 13°49 | 1°52 | 0°48 | 24° 2 | 23°56 | M30 |
| T 31 | 12 34 46 | 10 ° 37'04 | 10 궁 30 | 24 Y 14 | 5 Υ 11 | 16 Y 42 | 119513 | 29°D41 | 23 Y 18 | 26≈38 | 139549 | 1°D51 | 0 m 45 | 24궁 9 | 24 Y 0 | T 31 |

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|------|----------|-------------------|-----------------|----------------|---------------|----------------|--------|---------------|----------------|-------|--------|----------------|----------------|----------------|----------------|------|
| W 1 | 12 38 43 | 11 Y 36'06 | 22 ට 21 | 24°R 5 | 6 Υ 25 | 17 Y 28 | 119518 | 299541 | 23 Y 21 | 26≈40 | 139549 | 1 m 52 | 0 m 42 | 24 궁 15 | 24 Y 4 | W 1 |
| T 2 | 12 42 39 | 12°35'06 | 4≈11 | 23 Y 49 | 7°40 | 18°13 | 11°22 | 29°41 | 23°24 | 26°42 | 13°49 | 1°53 | 0°38 | 24°22 | 24° 8 | T 2 |
| F 3 | 12 46 36 | 13°34'05 | 16° 4 | 23°28 | 8°54 | 18°58 | 11°28 | 29°41 | 23°28 | 26°43 | 13°50 | 1°55 | 0°35 | 24°29 | 24°11 | F 3 |
| S 4 | 12 50 33 | 14°33'01 | 28° 7 | 23° 1 | 10° 8 | 19°44 | 11°33 | 29°42 | 23°31 | 26°45 | 13°50 | 1°R56 | 0°32 | 24°35 | 24°15 | S 4 |
| S 5 | 12 54 29 | 15°31'56 | 10) €22 | 22°29 | 11°23 | 20°29 | 11°38 | 29°42 | 23°35 | 26°47 | 13°50 | 1°55 | 0°29 | 24°42 | 24°19 | S 5 |
| M 6 | 12 58 26 | 16°30'49 | 22°52 | 21°53 | 12°37 | 21°14 | 11°44 | 29°43 | 23°38 | 26°48 | 13°50 | 1°53 | 0°26 | 24°49 | 24°23 | M 6 |
| T 7 | 13 2 22 | 17°29'40 | 5 Ƴ 41 | 21°14 | 13°51 | 21°59 | 11°49 | 29°43 | 23°41 | 26°50 | 13°50 | 1°49 | 0°22 | 24°55 | 24°26 | T 7 |
| W 8 | 13 6 19 | 18°28'29 | 18°48 | 20°32 | 15° 6 | 22°44 | 11°55 | 29°44 | 23°45 | 26°51 | 13°51 | 1°43 | 0°19 | 25° 2 | 24°30 | W 8 |
| T 9 | 13 10 15 | 19°27'16 | 2812 | 19°49 | 16°20 | 23°29 | 12° 1 | 29°45 | 23°48 | 26°53 | 13°51 | 1°35 | 0°16 | 25° 9 | 24°34 | T 9 |
| F 10 | 13 14 12 | 20°26'01 | 15°52 | 19° 5 | 17°34 | 24°14 | 12° 7 | 29°46 | 23°52 | 26°55 | 13°51 | 1°27 | 0°13 | 25°15 | 24°38 | F 10 |
| S 11 | 13 18 8 | 21°24'44 | 29°44 | 18°20 | 18°48 | 24°59 | 12°14 | 29°47 | 23°55 | 26°56 | 13°52 | 1°19 | 0°10 | 25°22 | 24°42 | S 11 |
| S 12 | 13 22 5 | 22°23'25 | 13 Ⅱ 45 | 17°37 | 20° 3 | 25°44 | 12°20 | 29°48 | 23°59 | 26°58 | 13°52 | 1°12 | 0° 7 | 25°29 | 24°46 | S 12 |
| M13 | 13 26 2 | 23°22'03 | 27°51 | 16°55 | 21°17 | 26°28 | 12°27 | 29°50 | 24° 2 | 26°59 | 13°52 | 1° 7 | 0° 3 | 25°35 | 24°49 | M13 |
| T 14 | 13 29 58 | 24°20'40 | 119559 | 16°15 | 22°31 | 27°13 | 12°33 | 29°51 | 24° 6 | 27° 0 | 13°53 | 1° 5 | 0° 0 | 25°42 | 24°53 | T 14 |
| W15 | 13 33 55 | 25°19'14 | 26° 8 | 15°38 | 23°45 | 27°58 | 12°40 | 29°53 | 24° 9 | 27° 2 | 13°53 | 1°D 4 | 29 Ω 57 | 25°49 | 24°57 | W15 |
| T 16 | 13 37 51 | 26°17'46 | 10 Ω 16 | 15° 5 | 24°59 | 28°42 | 12°47 | 29°54 | 24°12 | 27° 3 | 13°54 | 1° 5 | 29°54 | 25°55 | 25° 1 | T 16 |
| F 17 | 13 41 48 | 27°16'16 | 24°22 | 14°35 | 26°14 | 29°27 | 12°54 | 29°56 | 24°16 | 27° 5 | 13°54 | 1°R 6 | 29°51 | 26° 2 | 25° 5 | F 17 |
| S 18 | 13 45 44 | 28°14'43 | 8 m 24 | 14°10 | 27°28 | 0811 | 13° 2 | 29°58 | 24°19 | 27° 6 | 13°55 | 1° 5 | 29°47 | 26° 9 | 25° 8 | S 18 |
| S 19 | 13 49 41 | 29°13'08 | 22°20 | 13°49 | 28°42 | 0°56 | 13° 9 | 29°59 | 24°23 | 27° 7 | 13°55 | 1° 4 | 29°44 | 26°15 | 25°12 | S 19 |
| M20 | 13 53 37 | 0 8 11'32 | 6 ₽ 10 | 13°33 | 29°56 | 1°40 | 13°17 | 0Ω 2 | 24°26 | 27° 9 | 13°56 | 0°59 | 29°41 | 26°22 | 25°16 | M20 |
| T 21 | 13 57 34 | 1° 9'53 | 19°49 | 13°22 | 1810 | 2°25 | 13°24 | 0° 4 | 24°30 | 27°10 | 13°56 | 0°52 | 29°38 | 26°29 | 25°20 | T 21 |
| W22 | 14 131 | 2° 8'12 | 3 M _15 | 13°16 | 2°24 | 3° 9 | 13°32 | 0° 7 | 24°33 | 27°11 | 13°57 | 0°43 | 29°35 | 26°35 | 25°24 | W22 |
| T 23 | 14 5 27 | 3° 6'30 | 16°26 | 13°D15 | 3°38 | 3°53 | 13°40 | 0° 9 | 24°36 | 27°12 | 13°58 | 0°33 | 29°32 | 26°42 | 25°27 | T 23 |
| F 24 | 14 9 24 | 4° 4'46 | 29°20 | 13°18 | 4°52 | 4°37 | 13°48 | 0°11 | 24°40 | 27°13 | 13°58 | 0°22 | 29°28 | 26°49 | 25°31 | F 24 |
| S 25 | 14 13 20 | 5° 3'00 | 11 ×7 57 | 13°27 | 6° 6 | 5°22 | 13°56 | 0°14 | 24°43 | 27°14 | 13°59 | 0°11 | 29°25 | 26°55 | 25°35 | S 25 |
| S 26 | 14 17 17 | 6° 1'12 | 24°18 | 13°40 | 7°20 | 6° 6 | 14° 5 | 0°17 | 24°47 | 27°16 | 14° 0 | 0° 3 | 29°22 | 27° 2 | 25°39 | S 26 |
| M27 | 14 21 13 | 6°59'24 | 6 ප 25 | 13°58 | 8°34 | 6°50 | 14°13 | 0°19 | 24°50 | 27°17 | 14° 0 | 29 Ω 56 | 29°19 | 27° 9 | 25°43 | M27 |
| T 28 | 14 25 10 | 7°57'33 | 18°22 | 14°20 | 9°48 | 7°34 | 14°22 | 0°22 | 24°53 | 27°18 | 14° 1 | 29°52 | 29°16 | 27°15 | 25°46 | T 28 |
| W29 | 14 29 6 | 8°55'41 | 0≈12 | 14°47 | 11° 2 | 8°18 | 14°30 | 0°25 | 24°57 | 27°19 | 14° 2 | 29°50 | 29°13 | 27°22 | 25°50 | W29 |
| T 30 | 14 33 3 | 9 8 53'48 | 12 ≈ 2 | 15 Υ 18 | 12816 | 9 8 2 | 14939 | 0 Ω 28 | 25 Υ 0 | 27≈20 | 1499 3 | 29°D50 | 29⋒ 9 | 27 云 29 | 25 Ƴ 54 | T 30 |

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|--------------|----------------------|----------------------------|------------------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|-----------------------|----------------|--------------|
| F 1 | 14 37 0 | 10851'53 | 23≈56 | 15 Y 53 | 13830 | 9 8 45 | 149548 | 0 Ω 31 | 25 Y 4 | 27≈21 | 1499 3 | 29°R50 | 29⋒ 6 | 27중35 | 25 Y 58 | F 1 |
| S 2 | 14 40 56 | 11°49'57 | 5 ¥ 59 | 16°32 | 14°44 | 10°29 | 14°57 | 0°35 | 25° 7 | 27°22 | 14° 4 | 29 Ω 50 | 29° 3 | 27°42 | 26° 1 | S 2 |
| S 3 | 14 44 53 | 12°47'59 | 18°18 | 17°14 | 15°58 | 11°13 | 15° 6 | 0°38 | 25°10 | 27°22 | 14° 5 | 29°49 | 29° 0 | 27°49 | 26° 5 | S 3 |
| M 4 | 14 48 49 | 13°46'00 | 0 Υ 55 | 18° 1 | 17°12 | 11°57 | 15°16 | 0°41 | 25°13 | 27°23 | 14° 6 | 29°45 | 28°57 | 27°55 | 26° 9 | M 4 |
| T 5 | 14 52 46 | 14°43'59 | 13°55 | 18°50 | 18°26 | 12°40 | 15°25 | 0°45 | 25°17 | 27°24 | 14° 7 | 29°39 | 28°53 | 28° 2 | 26°12 | T 5 |
| W 6 | 14 56 42 | 15°41'57 | 27°17 | 19°43 | 19°40 | 13°24 | 15°34 | 0°49 | 25°20 | 27°25 | 14° 8 | 29°30 | 28°50 | 28° 9 | 26°16 | W 6 T 7 |
| T 7 F 8 | 15 0 39 15 4 35 | 16°39'54 17°37'49 | 11 8 3 25° 7 | 20°40 21°39 | 20°54 22° 8 | 14° 7 14°51 | 15°44 15°54 | 0°52 0°56 | 25°23 25°27 | 27°26 27°26 | 14° 9 14°10 | 29°20 29° 8 | 28°47 28°44 | 28°15 28°22 | 26°20 26°23 | T 7 F 8 |
| S 9 | 15 4 35 | 1/3/49 18°35'43 | 9 ∏ 26 | 21°39 22°41 | 23°21 | 14°31 15°34 | 15°54 16° 3 | 1° 0 | 25°30 | 27°27 | 14°10 | 29° 8 28°57 | 28°44 28°41 | 28°22 28°29 | 26°27 | F 8 |
| | | | | | | | | | | | | | | | | |
| S 10 M11 | 15 12 28 15 16 25 | 19°33'35 20°31'25 | 23°53 8 © 22 | 23°47 24°55 | 24°35 25°49 | 16°18 17° 1 | 16°13 16°23 | 1° 4 1° 8 | 25°33 25°36 | 27°28 27°29 | 14°12 14°13 | 28°47 28°40 | 28°38 28°34 | 28°35 28°42 | 26°31 26°34 | S 10 M11 |
| T 12 | 15 16 23 | 20 31 23 21°29'14 | 22°47 | 24° 33 | 23 49 27° 3 | 17 1 17°44 | 16°23 | 1°12 | 25°39 | 27°29 | 14 13 14°14 | 28°35 | 28°31 | 28°49 | 26°38 | T 12 |
| W13 | 15 24 18 | 21°29'14' 22°27'01 | 7Ω 5 | 27°19 | 28°17 | 18°28 | 16°43 | 1°17 | 25°43 | 27°30 | 14°15 | 28°33 | 28°28 | 28°55 | 26°41 | W13 |
| T 14 | 15 28 15 | 23°24'46 | 21°13 | 28°35 | 29°31 | 19°11 | 16°54 | 1°21 | 25°46 | 27°30 | 14°16 | 28°32 | 28°25 | 29° 2 | 26°45 | T 14 |
| F 15 | 15 32 11 | 24°22'30 | 5 Mp 11 | 29°54 | 0 Ⅱ 44 | 19°54 | 17° 4 | 1°25 | 25°49 | 27°31 | 14°17 | 28°32 | 28°22 | 29° 9 | 26°48 | F 15 |
| S 16 | 15 36 8 | 25°20'11 | 18°58 | 1815 | 1°58 | 20°37 | 17°14 | 1°30 | 25°52 | 27°31 | 14°18 | 28°32 | 28°19 | 29°15 | 26°52 | S 16 |
| S 17 | 15 40 4 | 26°17'52 | 2 ≏ 34 | 2°39 | 3°12 | 21°20 | 17°25 | 1°34 | 25°55 | 27°32 | 14°19 | 28°29 | 28°15 | 29°22 | 26°55 | S 17 |
| M18 | 15 44 1 | 27°15'30 | 16° 0 | 4° 5 | 4°26 | 22° 3 | 17°36 | 1°39 | 25°58 | 27°32 | 14°20 | 28°23 | 28°12 | 29°29 | 26°59 | M18 |
| T 19 | 15 47 57 | 28°13'08 | 29°16 | 5°33 | 5°39 | 22°46 | 17°46 | 1°44 | 26° 1 | 27°32 | 14°21 | 28°15 | 28° 9 | 29°35 | 27° 2 | T 19 |
| W20 | 15 51 54 | 29°10'43 | 12 M 20 | 7° 4 | 6°53 | 23°29 | 17°57 | 1°49 | 26° 4 | 27°33 | 14°22 | 28° 4 | 28° 6 | 29°42 | 27° 5 | W20 |
| T 21 F 22 | 15 55 51 15 59 47 | 0 Ⅲ 8'18 1° 5'51 | 25°11 7 √ 50 | 8°38 10°13 | 8° 7 9°21 | 24°11 24°54 | 18° 8 18°19 | 1°53 1°58 | 26° 7 26°10 | 27°33 27°33 | 14°24 14°25 | 27°51 27°38 | 28° 3 27°59 | 29°49 29°55 | 27° 9 27°12 | T 21 F 22 |
| S 23 | 16 3 44 | 2° 3'24 | 20°16 | 10°13 | 10°34 | 24°34 25°37 | 18°19 18°30 | 2° 3 | 26°10 26°13 | 27°34 | 14°25 | 27°26 | 27°56 | 29°55 0 ≈ 2 | 27°12 27°15 | S 23 |
| | | | | | | | | | | | | | | 0° 9 | | |
| S 24 M25 | 16 7 40 16 11 37 | 3° 0'55 3°58'25 | 2 る 29 14°31 | 13°32 15°15 | 11°48 13° 2 | 26°20 27° 2 | 18°41 18°52 | 2° 9 2°14 | 26°16 26°19 | 27°34 27°34 | 14°27 14°28 | 27°15 27° 6 | 27°53 27°50 | 0° 9 | 27°19 27°22 | S 24 M25 |
| T 26 | 16 15 33 | 4°55'55 | 26°25 | 13 13 17° 0 | 14°15 | 27°45 | 19° 3 | 2°19 | 26°22 | 27°34 | 14°30 | 27° 1 | 27°47 | 0°22 | 27°25 | T 26 |
| W27 | 16 19 30 | 5°53'23 | 8 ≈ 14 | 18°47 | 15°29 | 28°27 | 19°15 | 2°24 | 26°25 | 27°34 | 14°31 | 26°57 | 27°44 | 0°29 | 27°28 | W27 |
| T 28 | 16 23 27 | 6°50'51 | 20° 2 | 20°37 | 16°43 | 29°10 | 19°26 | 2°30 | 26°28 | 27°34 | 14°32 | 26°56 | 27°40 | 0°35 | 27°32 | T 28 |
| F 29 | 16 27 23 | 7°48'18 | 1 ¥ 55 | 22°29 | 17°56 | 29°52 | 19°37 | 2°35 | 26°30 | 27°34 | 14°34 | 26°56 | 27°37 | 0°42 | 27°35 | F 29 |
| S 30 | 16 31 20 | 8°45'44 | 13°58 | 24°24 | 19°10 | 0 Ⅱ 34 | 19°49 | 2°41 | 26°33 | 27°R35 | 14°35 | 26°56 | 27°34 | 0°49 | 27°38 | S 30 |
| S 31 | 16 35 16 | 9П43'09 | 26 ∺ 16 | 26820 | 20∏23 | 1 I 17 | 20න 0 | 2 Ω 46 | 26 Y 36 | 27≈35 | 14936 | 26 Ω 55 | 27 Ω 31 | 0≈55 | 27 Y 41 | S 31 |

Delta T = 22.35 sec

Greg. Calendar

JUNE 1682 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q. | ♂ | 4 | ħ |)f(| ¥ | В | u | v | Ç | §. | Day |
|------|----------|-------------------|----------------|----------------|----------------|-----------------|--------|---------------|----------------|--------|--------|----------------|----------------|------|----------------|------|
| M 1 | 16 39 13 | 10 Ⅱ 40'34 | 8 Y 55 | 28 8 19 | 21 Ⅲ 37 | 1 Ⅱ 59 | 209512 | 2 Ω 52 | 26 Y 39 | 27°R34 | 14937 | 26°R52 | 27 Ω 28 | 1≈ 2 | 27 Y 44 | M 1 |
| T 2 | 16 43 9 | 11°37'58 | 21°58 | 0Д20 | 22°51 | 2°41 | 20°24 | 2°58 | 26°41 | 27≈34 | 14°39 | 26 Ω 47 | 27°24 | 1° 9 | 27°47 | T 2 |
| W 3 | 16 47 6 | 12°35'22 | 5 8 28 | 2°23 | 24° 4 | 3°23 | 20°36 | 3° 4 | 26°44 | 27°34 | 14°40 | 26°39 | 27°21 | 1°15 | 27°50 | W 3 |
| T 4 | 16 51 2 | 13°32'45 | 19°24 | 4°27 | 25°18 | 4° 5 | 20°47 | 3° 9 | 26°47 | 27°34 | 14°42 | 26°30 | 27°18 | 1°22 | 27°53 | T 4 |
| F 5 | 16 54 59 | 14°30'07 | 3 Ⅱ 45 | 6°34 | 26°31 | 4°47 | 20°59 | 3°15 | 26°49 | 27°34 | 14°43 | 26°19 | 27°15 | 1°29 | 27°56 | F 5 |
| S 6 | 16 58 55 | 15°27'29 | 18°24 | 8°41 | 27°45 | 5°29 | 21°11 | 3°21 | 26°52 | 27°34 | 14°44 | 26° 9 | 27°12 | 1°35 | 27°59 | S 6 |
| S 7 | 17 2 52 | 16°24'50 | 39514 | 10°51 | 28°59 | 6°11 | 21°23 | 3°27 | 26°54 | 27°34 | 14°46 | 26° 0 | 27° 9 | 1°42 | 28° 1 | S 7 |
| M 8 | 17 6 49 | 17°22'10 | 18° 6 | 13° 1 | 09୍ତ12 | 6°53 | 21°35 | 3°33 | 26°57 | 27°33 | 14°47 | 25°53 | 27° 5 | 1°49 | 28° 4 | M 8 |
| T 9 | 17 10 45 | 18°19'30 | 2 Ω 53 | 15°12 | 1°26 | 7°35 | 21°47 | 3°40 | 26°59 | 27°33 | 14°49 | 25°49 | 27° 2 | 1°55 | 28° 7 | T 9 |
| W10 | 17 14 42 | 19°16'48 | 17°28 | 17°23 | 2°39 | 8°17 | 22° 0 | 3°46 | 27° 2 | 27°33 | 14°50 | 25°47 | 26°59 | 2° 2 | 28°10 | W10 |
| T 11 | 17 18 38 | 20°14'06 | 1 Mp 47 | 19°35 | 3°53 | 8°58 | 22°12 | 3°52 | 27° 4 | 27°32 | 14°51 | 25°D47 | 26°56 | 2° 9 | 28°12 | T 11 |
| F 12 | 17 22 35 | 21°11'22 | 15°48 | 21°47 | 5° 6 | 9°40 | 22°24 | 3°58 | 27° 6 | 27°32 | 14°53 | 25°R47 | 26°53 | 2°15 | 28°15 | F 12 |
| S 13 | 17 26 31 | 22° 8'38 | 29°32 | 23°59 | 6°20 | 10°22 | 22°36 | 4° 5 | 27° 9 | 27°31 | 14°54 | 25°47 | 26°50 | 2°22 | 28°18 | S 13 |
| S 14 | 17 30 28 | 23° 5'53 | 12 ≏ 58 | 26°10 | 7°33 | 11° 3 | 22°49 | 4°11 | 27°11 | 27°31 | 14°56 | 25°45 | 26°46 | 2°29 | 28°20 | S 14 |
| M15 | 17 34 25 | 24° 3'07 | 26°10 | 28°20 | 8°47 | 11°45 | 23° 1 | 4°18 | 27°13 | 27°31 | 14°57 | 25°41 | 26°43 | 2°35 | 28°23 | M15 |
| T 16 | 17 38 21 | 25° 0'21 | 9 ™ 7 | 0929 | 10° 0 | 12°26 | 23°14 | 4°24 | 27°15 | 27°30 | 14°59 | 25°35 | 26°40 | 2°42 | 28°25 | T 16 |
| W17 | 17 42 18 | 25°57'33 | 21°52 | 2°37 | 11°14 | 13° 8 | 23°26 | 4°31 | 27°17 | 27°29 | 15° 0 | 25°27 | 26°37 | 2°48 | 28°28 | W17 |
| T 18 | 17 46 14 | 26°54'46 | 4 ₹ 25 | 4°44 | 12°27 | 13°49 | 23°39 | 4°37 | 27°20 | 27°29 | 15° 2 | 25°17 | 26°34 | 2°55 | 28°30 | T 18 |
| F 19 | 17 50 11 | 27°51'58 | 16°48 | 6°49 | 13°40 | 14°30 | 23°51 | 4°44 | 27°22 | 27°28 | 15° 3 | 25° 6 | 26°30 | 3° 2 | 28°32 | F 19 |
| S 20 | 17 54 7 | 28°49'09 | 29° 0 | 8°52 | 14°54 | 15°12 | 24° 4 | 4°51 | 27°24 | 27°28 | 15° 5 | 24°56 | 26°27 | 3° 8 | 28°35 | S 20 |
| S 21 | 17 58 4 | 29°46'21 | 11る 3 | 10°54 | 16° 7 | 15°53 | 24°17 | 4°58 | 27°26 | 27°27 | 15° 6 | 24°48 | 26°24 | 3°15 | 28°37 | S 21 |
| M22 | 18 2 0 | 09543'32 | 22°59 | 12°54 | 17°21 | 16°34 | 24°29 | 5° 4 | 27°28 | 27°26 | 15° 8 | 24°41 | 26°21 | 3°22 | 28°39 | M22 |
| T 23 | 18 5 57 | 1°40'43 | 4≈49 | 14°52 | 18°34 | 17°15 | 24°42 | 5°11 | 27°30 | 27°26 | 15° 9 | 24°37 | 26°18 | 3°28 | 28°41 | T 23 |
| W24 | 18 9 54 | 2°37'54 | 16°36 | 16°47 | 19°47 | 17°56 | 24°55 | 5°18 | 27°31 | 27°25 | 15°11 | 24°35 | 26°15 | 3°35 | 28°43 | W24 |
| T 25 | 18 13 50 | 3°35'05 | 28°25 | 18°41 | 21° 1 | 18°37 | 25° 8 | 5°25 | 27°33 | 27°24 | 15°13 | 24°D34 | 26°11 | 3°42 | 28°45 | T 25 |
| F 26 | 18 17 47 | 4°32'16 | 10 ∺ 18 | 20°33 | 22°14 | 19°18 | 25°20 | 5°32 | 27°35 | 27°23 | 15°14 | 24°35 | 26° 8 | 3°48 | 28°47 | F 26 |
| S 27 | 18 21 43 | 5°29'27 | 22°20 | 22°23 | 23°27 | 19°59 | 25°33 | 5°39 | 27°37 | 27°22 | 15°16 | 24°36 | 26° 5 | 3°55 | 28°49 | S 27 |
| S 28 | 18 25 40 | 6°26'38 | 4 Υ38 | 24°10 | 24°41 | 20°40 | 25°46 | 5°46 | 27°39 | 27°22 | 15°17 | 24°R37 | 26° 2 | 4° 2 | 28°51 | S 28 |
| M29 | 18 29 36 | 7°23'49 | 17°14 | 25°56 | 25°54 | 21°21 | 25°59 | 5°53 | 27°40 | 27°21 | 15°19 | 24°37 | 25°59 | 4° 8 | 28°53 | M29 |
| T 30 | 18 33 33 | 8921'01 | 0 8 15 | 279539 | 2795 7 | 22 I I 2 | 269512 | 6Ω 0 | 27 Y 42 | 27≈≈20 | 159520 | 24 N 35 | $25\Omega 56$ | 4≈15 | 28 Y 55 | T 30 |

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| Day | Sid.t | \odot | D | ğ | Q. | ♂ | 4 | ħ |)f(| # | В | ß | Ω | Ç | ę, | Day |
|------|----------|------------------|----------------|---------------|---------------|--------|--------------|---------------|----------------|--------|--------|----------------|----------------|------|----------------|------|
| W 1 | 18 37 29 | 99518'13 | 13 8 43 | 299521 | 289521 | 22∏42 | 269525 | 6 N 8 | 27 Y 43 | 27°R19 | 159522 | 24°R31 | 25 Ω 52 | 4≈22 | 28 Y 57 | W 1 |
| T 2 | 18 41 26 | 10°15'26 | 27°40 | 1Ω 0 | 29°34 | 23°23 | 26°38 | 6°15 | 27°45 | 27≈18 | 15°23 | $24\Omega 25$ | 25°49 | 4°28 | 28°59 | T 2 |
| F 3 | 18 45 23 | 11°12'39 | 12 II 4 | 2°37 | 0 Ω 47 | 24° 4 | 26°51 | 6°22 | 27°46 | 27°17 | 15°25 | 24°19 | 25°46 | 4°35 | 29° 0 | F 3 |
| S 4 | 18 49 19 | 12° 9'52 | 26°50 | 4°12 | 2° 1 | 24°44 | 27° 4 | 6°29 | 27°48 | 27°16 | 15°27 | 24°12 | 25°43 | 4°42 | 29° 2 | S 4 |
| S 5 | 18 53 16 | 13° 7'05 | 11952 | 5°45 | 3°14 | 25°25 | 27°17 | 6°36 | 27°49 | 27°15 | 15°28 | 24° 7 | 25°40 | 4°48 | 29° 4 | S 5 |
| M 6 | 18 57 12 | 14° 4'19 | 27° 0 | 7°16 | 4°27 | 26° 6 | 27°30 | 6°44 | 27°51 | 27°14 | 15°30 | 24° 3 | 25°36 | 4°55 | 29° 5 | M 6 |
| T 7 | 19 1 9 | 15° 1'33 | 12Ω 5 | 8°45 | 5°40 | 26°46 | 27°43 | 6°51 | 27°52 | 27°13 | 15°31 | 24° 1 | 25°33 | 5° 2 | 29° 7 | T 7 |
| W 8 | 19 5 5 | 15°58'46 | 26°58 | 10°11 | 6°53 | 27°26 | 27°57 | 6°59 | 27°53 | 27°11 | 15°33 | 24°D 0 | 25°30 | 5° 8 | 29° 8 | W 8 |
| T 9 | 19 9 2 | 16°56'00 | 11 m 33 | 11°36 | 8° 7 | 28° 7 | 28°10 | 7° 6 | 27°55 | 27°10 | 15°34 | 24° 1 | 25°27 | 5°15 | 29°10 | T 9 |
| F 10 | 19 12 58 | 17°53'14 | 25°46 | 12°58 | 9°20 | 28°47 | 28°23 | 7°13 | 27°56 | 27° 9 | 15°36 | 24° 2 | 25°24 | 5°22 | 29°11 | F 10 |
| S 11 | 19 16 55 | 18°50'28 | 9 ≙ 35 | 14°18 | 10°33 | 29°27 | 28°36 | 7°21 | 27°57 | 27° 8 | 15°38 | 24° 4 | 25°21 | 5°28 | 29°12 | S 11 |
| S 12 | 19 20 52 | 19°47'42 | 23° 2 | 15°35 | 11°46 | 0න 8 | 28°49 | 7°28 | 27°58 | 27° 7 | 15°39 | 24°R 4 | 25°17 | 5°35 | 29°13 | S 12 |
| M13 | 19 24 48 | 20°44'56 | 6 M 8 | 16°51 | 12°59 | 0°48 | 29° 3 | 7°36 | 27°59 | 27° 6 | 15°41 | 24° 3 | 25°14 | 5°42 | 29°15 | M13 |
| T 14 | 19 28 45 | 21°42'11 | 18°56 | 18° 4 | 14°12 | 1°28 | 29°16 | 7°43 | 28° 0 | 27° 4 | 15°42 | 24° 0 | 25°11 | 5°48 | 29°16 | T 14 |
| W15 | 19 32 41 | 22°39'25 | 1 ₹ 29 | 19°14 | 15°26 | 2° 8 | 29°29 | 7°51 | 28° 1 | 27° 3 | 15°44 | 23°56 | 25° 8 | 5°55 | 29°17 | W15 |
| T 16 | 19 36 38 | 23°36'40 | 13°49 | 20°22 | 16°39 | 2°48 | 29°42 | 7°58 | 28° 2 | 27° 2 | 15°45 | 23°52 | 25° 5 | 6° 1 | 29°18 | T 16 |
| F 17 | 19 40 34 | 24°33'56 | 25°58 | 21°27 | 17°52 | 3°28 | 29°56 | 8° 6 | 28° 3 | 27° 0 | 15°47 | 23°47 | 25° 2 | 6° 8 | 29°19 | F 17 |
| S 18 | 19 44 31 | 25°31'11 | 7 궁 59 | 22°29 | 19° 5 | 4° 8 | 0 N 9 | 8°14 | 28° 3 | 26°59 | 15°49 | 23°42 | 24°58 | 6°15 | 29°20 | S 18 |
| S 19 | 19 48 27 | 26°28'28 | 19°54 | 23°29 | 20°18 | 4°48 | 0°22 | 8°21 | 28° 4 | 26°58 | 15°50 | 23°38 | 24°55 | 6°21 | 29°20 | S 19 |
| M20 | 19 52 24 | 27°25'45 | 1≈44 | 24°25 | 21°31 | 5°28 | 0°35 | 8°29 | 28° 5 | 26°56 | 15°52 | 23°35 | 24°52 | 6°28 | 29°21 | M20 |
| T 21 | 19 56 21 | 28°23'02 | 13°32 | 25°19 | 22°44 | 6° 8 | 0°49 | 8°36 | 28° 6 | 26°55 | 15°53 | 23°33 | 24°49 | 6°35 | 29°22 | T 21 |
| W22 | 20 0 17 | 29°20'21 | 25°20 | 26° 9 | 23°57 | 6°47 | 1° 2 | 8°44 | 28° 6 | 26°54 | 15°55 | 23°D33 | 24°46 | 6°41 | 29°23 | W22 |
| T 23 | 20 4 14 | 0 Ω 17'40 | 7 ∺ 11 | 26°56 | 25°10 | 7°27 | 1°15 | 8°52 | 28° 7 | 26°52 | 15°56 | 23°34 | 24°42 | 6°48 | 29°23 | T 23 |
| F 24 | 20 8 10 | 1°15'00 | 19° 8 | 27°40 | 26°23 | 8° 7 | 1°29 | 8°59 | 28° 7 | 26°51 | 15°58 | 23°35 | 24°39 | 6°55 | 29°24 | F 24 |
| S 25 | 20 12 7 | 2°12'21 | 1 Υ 14 | 28°20 | 27°36 | 8°46 | 1°42 | 9° 7 | 28° 8 | 26°49 | 15°59 | 23°37 | 24°36 | 7° 1 | 29°24 | S 25 |
| S 26 | 20 16 3 | 3° 9'43 | 13°33 | 28°56 | 28°48 | 9°26 | 1°55 | 9°15 | 28° 8 | 26°48 | 16° 1 | 23°38 | 24°33 | 7° 8 | 29°25 | S 26 |
| M27 | 20 20 0 | 4° 7'06 | 26° 9 | 29°28 | 0 m 1 | 10° 6 | 2° 8 | 9°22 | 28° 8 | 26°46 | 16° 2 | 23°39 | 24°30 | 7°15 | 29°25 | M27 |
| T 28 | 20 23 56 | 5° 4'31 | 9 8 7 | 29°56 | 1°14 | 10°45 | 2°22 | 9°30 | 28° 9 | 26°45 | 16° 4 | 23°R39 | 24°27 | 7°21 | 29°26 | T 28 |
| W29 | 20 27 53 | 6° 1'56 | 22°30 | 0 Mp 20 | 2°27 | 11°25 | 2°35 | 9°38 | 28° 9 | 26°43 | 16° 5 | 23°38 | 24°23 | 7°28 | 29°26 | W29 |
| T 30 | 20 31 50 | 6°59'23 | 6 Ⅱ 19 | 0°39 | 3°40 | 12° 4 | 2°48 | 9°46 | 28° 9 | 26°42 | 16° 7 | 23°37 | 24°20 | 7°35 | 29°26 | T 30 |
| F 31 | 20 35 46 | 7 Ω 56'51 | 20耳35 | 0 m 53 | 4 m 53 | 129543 | 3 Ω 1 | 9 Ω 53 | 28 Y 9 | 26≈40 | 1695 8 | 23 N 35 | 24 Ω 17 | 7≈41 | 29 Y 26 | F 31 |

Delta T = 22.26 sec Greg. Calendar

AUGUST 1682 GC 00:00 UT

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|------|----------|------------------|-------------------------|----------------|----------------|---------------|---------------|----------------|----------------|--------|--------|----------------|----------------|-------|----------------|------|
| S 1 | 20 39 43 | 8 Ω 54'21 | 59915 | 1 Mp 2 | 6M) 6 | 13923 | 3 Ω 15 | 10 N 1 | 28 Y 10 | 26°R39 | 16910 | 23°R33 | 24⋒14 | 7≈48 | 29 Ƴ 27 | S 1 |
| S 2 | 20 43 39 | 9°51'52 | 20°13 | 1°R 7 | 7°18 | 14° 2 | 3°28 | 10° 9 | 28°10 | 26≈37 | 16°11 | 23€32 | 24°11 | 7°55 | 29°27 | S 2 |
| M 3 | 20 47 36 | 10°49'23 | 5 Ω 23 | 1° 6 | 8°31 | 14°41 | 3°41 | 10°16 | 28°R10 | 26°36 | 16°13 | 23°31 | 24° 8 | 8° 1 | 29°R27 | M 3 |
| T 4 | 20 51 32 | 11°46'56 | 20°34 | 1° 0 | 9°44 | 15°20 | 3°54 | 10°24 | 28°10 | 26°34 | 16°14 | 23°D30 | 24° 4 | 8° 8 | 29°27 | T 4 |
| W 5 | 20 55 29 | 12°44'30 | 5 m 38 | 0°48 | 10°56 | 16° 0 | 4° 8 | 10°32 | 28°10 | 26°33 | 16°16 | 23°30 | 24° 1 | 8°15 | 29°26 | W 5 |
| T 6 | 20 59 25 | 13°42'05 | 20°25 | 0°31 | 12° 9 | 16°39 | 4°21 | 10°40 | 28° 9 | 26°31 | 16°17 | 23°31 | 23°58 | 8°21 | 29°26 | T 6 |
| F 7 | 21 3 22 | 14°39'41 | 4 ≏ 51 | 0° 9 | 13°22 | 17°18 | 4°34 | 10°47 | 28° 9 | 26°29 | 16°19 | 23°32 | 23°55 | 8°28 | 29°26 | F 7 |
| S 8 | 21 7 19 | 15°37'18 | 18°51 | 29 Ω 41 | 14°34 | 17°57 | 4°47 | 10°55 | 28° 9 | 26°28 | 16°20 | 23°32 | 23°52 | 8°34 | 29°26 | S 8 |
| S 9 | 21 11 15 | 16°34'55 | 2 M 25 | 29° 8 | 15°47 | 18°36 | 5° 0 | 11° 3 | 28° 9 | 26°26 | 16°21 | 23°33 | 23°48 | 8°41 | 29°25 | S 9 |
| M10 | 21 15 12 | 17°32'34 | 15°33 | 28°31 | 17° 0 | 19°15 | 5°13 | 11°10 | 28° 8 | 26°25 | 16°23 | 23°R33 | 23°45 | 8°48 | 29°25 | M10 |
| T 11 | 21 19 8 | 18°30'14 | 28°20 | 27°49 | 18°12 | 19°54 | 5°27 | 11°18 | 28° 8 | 26°23 | 16°24 | 23°33 | 23°42 | 8°54 | 29°25 | T 11 |
| W12 | 21 23 5 | 19°27'55 | 10 ∡ 748 | 27° 4 | 19°25 | 20°33 | 5°40 | 11°26 | 28° 8 | 26°21 | 16°26 | 23°33 | 23°39 | 9° 1 | 29°24 | W12 |
| T 13 | 21 27 1 | 20°25'36 | 23° 0 | 26°15 | 20°37 | 21°11 | 5°53 | 11°33 | 28° 7 | 26°20 | 16°27 | 23°32 | 23°36 | 9° 8 | 29°24 | T 13 |
| F 14 | 21 30 58 | 21°23'20 | 5 궁 2 | 25°24 | 21°50 | 21°50 | 6° 6 | 11°41 | 28° 7 | 26°18 | 16°28 | 23°32 | 23°33 | 9°14 | 29°23 | F 14 |
| S 15 | 21 34 54 | 22°21'04 | 16°56 | 24°32 | 23° 2 | 22°29 | 6°19 | 11°49 | 28° 6 | 26°16 | 16°30 | 23°32 | 23°29 | 9°21 | 29°22 | S 15 |
| S 16 | 21 38 51 | 23°18'49 | 28°45 | 23°40 | 24°14 | 23° 7 | 6°32 | 11°56 | 28° 5 | 26°15 | 16°31 | 23°D32 | 23°26 | 9°28 | 29°22 | S 16 |
| M17 | 21 42 48 | 24°16'36 | 10≈33 | 22°48 | 25°27 | 23°46 | 6°45 | 12° 4 | 28° 5 | 26°13 | 16°32 | 23°32 | 23°23 | 9°34 | 29°21 | M17 |
| T 18 | 21 46 44 | 25°14'24 | 22°22 | 21°58 | 26°39 | 24°25 | 6°58 | 12°11 | 28° 4 | 26°12 | 16°33 | 23°R32 | 23°20 | 9°41 | 29°20 | T 18 |
| W19 | 21 50 41 | 26°12'14 | 4) (15 | 21°11 | 27°51 | 25° 3 | 7°10 | 12°19 | 28° 3 | 26°10 | 16°35 | 23°32 | 23°17 | 9°48 | 29°19 | W19 |
| T 20 | 21 54 37 | 27°10'05 | 16°13 | 20°28 | 29° 4 | 25°42 | 7°23 | 12°27 | 28° 2 | 26° 8 | 16°36 | 23°32 | 23°14 | 9°54 | 29°18 | T 20 |
| F 21 | 21 58 34 | 28° 7'57 | 28°18 10 ° 33 | 19°49 | 0 <u>₽</u> 16 | 26°20 | 7°36 | 12°34 | 28° 2 | 26° 7 | 16°37 | 23°31 | 23°10 | 10° 1 | 29°17 | F 21 |
| S 22 | 22 2 30 | 29° 5'51 | 10 1 33 | 19°16 | 1°28 | 26°59 | 7°49 | 12°42 | 28° 1 | 26° 5 | 16°39 | 23°31 | 23° 7 | 10° 8 | 29°16 | S 22 |
| S 23 | 22 6 27 | 0Mp 3'47 | 23° 1 | 18°50 | 2°40 | 27°37 | 8° 2 | 12°49 | 28° 0 | 26° 3 | 16°40 | 23°30 | 23° 4 | 10°14 | 29°15 | S 23 |
| M24 | 22 10 23 | 1° 1'45 | 5 8 43 | 18°31 | 3°52 | 28°15 | 8°14 | 12°57 | 27°59 | 26° 2 | 16°41 | 23°29 | 23° 1 | 10°21 | 29°14 | M24 |
| T 25 | 22 14 20 | 1°59'45 | 18°43 | 18°19 | 5° 5 | 28°54 | 8°27 | 13° 4 | 27°58 | 26° 0 | 16°42 | 23°28 | 22°58 | 10°27 | 29°13 | T 25 |
| W26 | 22 18 16 | 2°57'47 | 2 II 2 | 18°D15 | 6°17 | 29°32 | 8°40 | 13°12 | 27°57 | 25°58 | 16°43 | 23°D28 | 22°54 | 10°34 | 29°11 | W26 |
| T 27 | 22 22 13 | 3°55'50 | 15°43 | 18°20 | 7°29 | 0010 | 8°52 | 13°19 | 27°56 | 25°57 | 16°44 | 23°28 | 22°51 | 10°41 | 29°10 | T 27 |
| F 28 | 22 26 10 | 4°53'56 | 29°46 | 18°33 | 8°41 | 0°48 | 9° 5 | 13°26 | 27°54 | 25°55 | 16°46 | 23°29 | 22°48 | 10°47 | 29° 9 | F 28 |
| S 29 | 22 30 6 | 5°52'04 | 149911 | 18°55 | 9°53 | 1°26 | 9°18 | 13°34 | 27°53 | 25°54 | 16°47 | 23°30 | 22°45 | 10°54 | 29° 7 | S 29 |
| S 30 | 22 34 3 | 6°50'13 | 28°53 | 19°25 | 11° 5 | 2° 4 | 9°30 | 13°41 | 27°52 | 25°52 | 16°48 | 23°31 | 22°42 | 11° 1 | 29° 6 | S 30 |
| M31 | 22 37 59 | 7 M 48'25 | 13 Ω 50 | 20 N 3 | 12 ≏ 17 | 2 Ω 43 | 9 Ω 42 | 13 Ω 48 | 27 Υ 51 | 25≈50 | 169549 | 23 N 32 | 22 Ω 39 | 11≈ 7 | 29 Υ 4 | M31 |

Delta T = 22.21 sec Greg. Calendar

SEPTEMBER 1682 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q | ♂ [™] | 4 | ħ |)Å(| ¥ | Р | ß | v | ţ | , k | Day |
|------|----------|--------------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|--------|--------|----------------|---------------------|-------|----------------|------|
| T 1 | 22 41 56 | 8 m) 46'38 | 28 Ω 52 | 20 Ω 50 | 13 ≏ 28 | 3 Ω 21 | 9 Ω 55 | 13 £ 56 | 27°R49 | 25°R49 | 16950 | 23°R32 | 22 \Omega 35 | 11≈14 | 29°R 3 | T 1 |
| W 2 | 22 45 52 | 9°44'53 | 13 m 52 | 21°44 | 14°40 | 3°58 | 10° 7 | 14° 3 | 27 Y 48 | 25≈47 | 16°51 | 23€31 | 22°32 | 11°21 | 29 Υ 1 | W 2 |
| T 3 | 22 49 49 | 10°43'10 | 28°41 | 22°45 | 15°52 | 4°36 | 10°20 | 14°10 | 27°47 | 25°46 | 16°52 | 23°29 | 22°29 | 11°27 | 28°59 | T 3 |
| F 4 | 22 53 45 | 11°41'29 | 13 ≏ 12 | 23°54 | 17° 4 | 5°14 | 10°32 | 14°17 | 27°45 | 25°44 | 16°53 | 23°27 | 22°26 | 11°34 | 28°58 | F 4 |
| S 5 | 22 57 42 | 12°39'49 | 27°20 | 25° 9 | 18°16 | 5°52 | 10°44 | 14°24 | 27°44 | 25°42 | 16°54 | 23°25 | 22°23 | 11°41 | 28°56 | S 5 |
| S 6 | 23 1 39 | 13°38'11 | 11 m 1 | 26°29 | 19°27 | 6°30 | 10°56 | 14°31 | 27°42 | 25°41 | 16°55 | 23°22 | 22°19 | 11°47 | 28°54 | S 6 |
| M 7 | 23 5 35 | 14°36'34 | 24°15 | 27°55 | 20°39 | 7° 8 | 11° 8 | 14°39 | 27°41 | 25°39 | 16°56 | 23°20 | 22°16 | 11°54 | 28°52 | M 7 |
| T 8 | 23 9 32 | 15°34'59 | 7 .₹ 5 | 29°26 | 21°51 | 7°45 | 11°20 | 14°46 | 27°39 | 25°38 | 16°57 | 23°19 | 22°13 | 12° 1 | 28°50 | T 8 |
| W 9 | 23 13 28 | 16°33'26 | 1 <u>9</u> °33 | 1 Mp 0 | 23° 2 | 8°23 | 11°32 | 14°53 | 27°37 | 25°36 | 16°58 | 23°D19 | 22°10 | 12° 7 | 28°48 | W 9 |
| T 10 | 23 17 25 | 17°31'54 | 1₹44 | 2°39 | 24°14 | 9° 0 | 11°44 | 14°59 | 27°36 | 25°35 | 16°59 | 23°19 | 22° 7 | 12°14 | 28°46 | T 10 |
| F 11 | 23 21 21 | 18°30'24 | 13°43 | 4°20 | 25°25 | 9°38 | 11°56 | 15° 6 | 27°34 | 25°33 | 17° 0 | 23°21 | 22° 4 | 12°20 | 28°44 | F 11 |
| S 12 | 23 25 18 | 19°28'55 | 25°34 | 6° 4 | 26°36 | 10°15 | 12° 8 | 15°13 | 27°32 | 25°32 | 17° 0 | 23°23 | 22° 0 | 12°27 | 28°42 | S 12 |
| S 13 | 23 29 14 | 20°27'29 | 7≈22 | 7°50 | 27°48 | 10°53 | 12°19 | 15°20 | 27°30 | 25°30 | 17° 1 | 23°24 | 21°57 | 12°34 | 28°40 | S 13 |
| M14 | 23 33 11 | 21°26'04 | 19°10 | 9°38 | 28°59 | 11°30 | 12°31 | 15°27 | 27°28 | 25°29 | 17° 2 | 23°R25 | 21°54 | 12°40 | 28°38 | M14 |
| T 15 | 23 37 8 | 22°24'41 | 1 米 3 | 11°27 | 0 M .10 | 12° 8 | 12°43 | 15°33 | 27°27 | 25°28 | 17° 3 | 23°25 | 21°51 | 12°47 | 28°36 | T 15 |
| W16 | 23 41 4 | 23°23'19 | 13° 2 | 13°17 | 1°22 | 12°45 | 12°54 | 15°40 | 27°25 | 25°26 | 17° 4 | 23°23 | 21°48 | 12°54 | 28°34 | W16 |
| T 17 | 23 45 1 | 24°22'00 | 25°11 | 15° 7 | 2°33 | 13°22 | 13° 6 | 15°47 | 27°23 | 25°25 | 17° 4 | 23°20 | 21°45 | 13° 0 | 28°31 | T 17 |
| F 18 | 23 48 57 | 25°20'42 | 7 Υ 31 | 16°58 | 3°44 | 14° 0 | 13°17 | 15°53 | 27°21 | 25°23 | 17° 5 | 23°16 | 21°41 | 13° 7 | 28°29 | F 18 |
| S 19 | 23 52 54 | 26°19'27 | 20° 2 | 18°49 | 4°55 | 14°37 | 13°28 | 16° 0 | 27°19 | 25°22 | 17° 6 | 23°10 | 21°38 | 13°14 | 28°27 | S 19 |
| S 20 | 23 56 50 | 27°18'13 | 2 8 46 | 20°40 | 6° 6 | 15°14 | 13°40 | 16° 6 | 27°17 | 25°21 | 17° 6 | 23° 5 | 21°35 | 13°20 | 28°24 | S 20 |
| M21 | 0 0 47 | 28°17'02 | 15°43 | 22°30 | 7°17 | 15°51 | 13°51 | 16°13 | 27°15 | 25°19 | 17° 7 | 22°59 | 21°32 | 13°27 | 28°22 | M21 |
| T 22 | 0 4 43 | 29°15'53 | 28°53 | 24°21 | 8°28 | 16°28 | 14° 2 | 16°19 | 27°13 | 25°18 | 17° 8 | 22°54 | 21°29 | 13°34 | 28°19 | T 22 |
| W23 | 0 8 40 | 0 ₽ 14'47 | 12 Ⅱ 17 | 26°10 | 9°39 | 17° 5 | 14°13 | 16°25 | 27°11 | 25°17 | 17° 8 | 22°51 | 21°25 | 13°40 | 28°17 | W23 |
| T 24 | 0 12 37 | 1°13'42 | 25°57 | 27°59 | 10°49 | 17°42 | 14°24 | 16°32 | 27° 9 | 25°15 | 17° 9 | 22°D50 | 21°22 | 13°47 | 28°14 | T 24 |
| F 25 | 0 16 33 | 2°12'41 | 9951 | 29°48 | 12° 0 | 18°19 | 14°35 | 16°38 | 27° 6 | 25°14 | 17°10 | 22°50 | 21°19 | 13°54 | 28°12 | F 25 |
| S 26 | 0 20 30 | 3°11'41 | 23°59 | 1 ≏ 35 | 13°11 | 18°56 | 14°45 | 16°44 | 27° 4 | 25°13 | 17°10 | 22°51 | 21°16 | 14° 0 | 28° 9 | S 26 |
| S 27 | 0 24 26 | 4°10'44 | 8 Ω 22 | 3°22 | 14°22 | 19°33 | 14°56 | 16°50 | 27° 2 | 25°12 | 17°11 | 22°52 | 21°13 | 14° 7 | 28° 7 | S 27 |
| M28 | 0 28 23 | 5° 9'49 | 22°56 | 5° 8 | 15°32 | 20° 9 | 15° 7 | 16°56 | 27° 0 | 25°11 | 17°11 | 22°R53 | 21°10 | 14°13 | 28° 4 | M28 |
| T 29 | 0 32 19 | 6° 8'56 | 7 m 36 | 6°54 | 16°43 | 20°46 | 15°17 | 17° 2 | 26°58 | 25°10 | 17°12 | 22°52 | 21° 6 | 14°20 | 28° 1 | T 29 |
| W30 | 0 36 16 | 7 ♀ 8'06 | 22 Mp 18 | 8 亞 38 | 17 M 53 | 21 \O 23 | 15 Ω 28 | 17 0 8 | 26 Y 55 | 25≈ 8 | 179512 | 22 N 49 | 21 0 3 | 14≈27 | 27 Y 59 | W30 |

Delta T = 22.17 sec

Greg. Calendar

| ACTABED 1600 CC | 00.00 IIT |
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| OCTOBER 1682 GC | 00:00 UT |

| Day | Sid.t | 0 |) | ğ | · | ♂ | 4 | ħ | ᡟ | 并 | Р | ß | S | Ç | ķ | Day |
|------|---------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|--------|-----------------|----------------|-------|----------------|------|
| T 1 | 0 40 12 | 8 ♀ 7'17 | 6 ₽ 55 | 10 ≏ 22 | 19 M 3 | 21 Ω 59 | 15 Ω 38 | 17Ω14 | 26°R53 | 25°R 7 | 179512 | 22°R44 | 210 0 | 14≈33 | 27°R56 | T 1 |
| F 2 | 0 44 9 | 9° 6'31 | 21°18 | 12° 5 | 20°14 | 22°36 | 15°48 | 17°20 | 26 Y 51 | 25≈ 6 | 17°13 | $22\Omega_{38}$ | 20°57 | 14°40 | 27 Y 53 | F 2 |
| S 3 | 0 48 5 | 10° 5'46 | 5 M 23 | 13°47 | 21°24 | 23°12 | 15°58 | 17°25 | 26°48 | 25° 5 | 17°13 | 22°30 | 20°54 | 14°47 | 27°51 | S 3 |
| S 4 | 0 52 2 | 11° 5'04 | 19° 5 | 15°29 | 22°34 | 23°49 | 16° 8 | 17°31 | 26°46 | 25° 4 | 17°14 | 22°22 | 20°50 | 14°53 | 27°48 | S 4 |
| M 5 | 0 55 59 | 12° 4'24 | 2 ~ 22 | 17° 9 | 23°44 | 24°25 | 16°18 | 17°36 | 26°44 | 25° 3 | 17°14 | 22°15 | 20°47 | 15° 0 | 27°45 | M 5 |
| T 6 | 0 59 55 | 13° 3'45 | 15°14 | 18°49 | 24°54 | 25° 2 | 16°28 | 17°42 | 26°41 | 25° 2 | 17°14 | 22° 9 | 20°44 | 15° 7 | 27°42 | T 6 |
| W 7 | 1 3 52 | 14° 3'08 | 27°45 | 20°28 | 26° 4 | 25°38 | 16°38 | 17°47 | 26°39 | 25° 1 | 17°14 | 22° 5 | 20°41 | 15°13 | 27°39 | W 7 |
| T 8 | 1 7 48 | 15° 2'33 | 9 ප 57 | 22° 7 | 27°14 | 26°14 | 16°48 | 17°53 | 26°37 | 25° 0 | 17°15 | 22°D 4 | 20°38 | 15°20 | 27°37 | T 8 |
| F 9 | 1 11 45 | 16° 2'00 | 21°55 | 23°44 | 28°24 | 26°50 | 16°57 | 17°58 | 26°34 | 24°59 | 17°15 | 22° 4 | 20°35 | 15°27 | 27°34 | F 9 |
| S 10 | 1 15 41 | 17° 1'28 | 3≈46 | 25°21 | 29°34 | 27°26 | 17° 7 | 18° 3 | 26°32 | 24°59 | 17°15 | 22° 5 | 20°31 | 15°33 | 27°31 | S 10 |
| S 11 | 1 19 38 | 18° 0'59 | 15°33 | 26°58 | 0 ∡ 143 | 28° 2 | 17°16 | 18° 8 | 26°29 | 24°58 | 17°15 | 22° 6 | 20°28 | 15°40 | 27°28 | S 11 |
| M12 | 1 23 34 | 19° 0'31 | 27°23 | 28°33 | 1°53 | 28°39 | 17°25 | 18°13 | 26°27 | 24°57 | 17°15 | 22°R 6 | 20°25 | 15°46 | 27°25 | M12 |
| T 13 | 1 27 31 | 20° 0'05 | 9 ∺ 20 | OM 8 | 3° 2 | 29°14 | 17°34 | 18°18 | 26°25 | 24°56 | 17°16 | 22° 4 | 20°22 | 15°53 | 27°22 | T 13 |
| W14 | 1 31 28 | 20°59'40 | 21°27 | 1°43 | 4°12 | 29°50 | 17°43 | 18°23 | 26°22 | 24°55 | 17°16 | 22° 0 | 20°19 | 16° 0 | 27°19 | W14 |
| T 15 | 1 35 24 | 21°59'18 | 3 Υ 48 | 3°16 | 5°21 | 0 m /26 | 17°52 | 18°28 | 26°20 | 24°55 | 17°16 | 21°53 | 20°16 | 16° 6 | 27°16 | T 15 |
| F 16 | 1 39 21 | 22°58'57 | 16°24 | 4°49 | 6°30 | 1° 2 | 18° 1 | 18°33 | 26°17 | 24°54 | 17°16 | 21°45 | 20°12 | 16°13 | 27°13 | F 16 |
| S 17 | 1 43 17 | 23°58'39 | 29°15 | 6°22 | 7°39 | 1°38 | 18° 9 | 18°37 | 26°15 | 24°53 | 17°16 | 21°34 | 20° 9 | 16°20 | 27°10 | S 17 |
| S 18 | 1 47 14 | 24°58'22 | 12821 | 7°54 | 8°48 | 2°13 | 18°18 | 18°42 | 26°12 | 24°53 | 17°R16 | 21°23 | 20° 6 | 16°26 | 27° 7 | S 18 |
| M19 | 1 51 10 | 25°58'08 | 25°40 | 9°25 | 9°57 | 2°49 | 18°26 | 18°46 | 26°10 | 24°52 | 17°16 | 21°12 | 20° 3 | 16°33 | 27° 4 | M19 |
| T 20 | 1 55 7 | 26°57'56 | 9 Ⅱ 11 | 10°56 | 11° 5 | 3°25 | 18°34 | 18°51 | 26° 7 | 24°51 | 17°16 | 21° 2 | 20° 0 | 16°40 | 27° 2 | T 20 |
| W21 | 1 59 3 | 27°57'46 | 22°52 | 12°26 | 12°14 | 4° 0 | 18°43 | 18°55 | 26° 5 | 24°51 | 17°16 | 20°55 | 19°56 | 16°46 | 26°59 | W21 |
| T 22 | 2 3 0 | 28°57'38 | 69540 | 13°56 | 13°22 | 4°36 | 18°51 | 18°59 | 26° 2 | 24°50 | 17°16 | 20°51 | 19°53 | 16°53 | 26°56 | T 22 |
| F 23 | 2 6 57 | 29°57'33 | 20°36 | 15°25 | 14°31 | 5°11 | 18°58 | 19° 3 | 26° 0 | 24°50 | 17°16 | 20°49 | 19°50 | 17° 0 | 26°53 | F 23 |
| S 24 | 2 10 53 | 0M57'29 | 4 Ω 38 | 16°54 | 15°39 | 5°46 | 19° 6 | 19° 7 | 25°58 | 24°50 | 17°15 | 20°D49 | 19°47 | 17° 6 | 26°50 | S 24 |
| S 25 | 2 14 50 | 1°57'28 | 18°46 | 18°22 | 16°47 | 6°22 | 19°14 | 19°11 | 25°55 | 24°49 | 17°15 | 20°R49 | 19°44 | 17°13 | 26°47 | S 25 |
| M26 | 2 18 46 | 2°57'29 | 2 m 59 | 19°49 | 17°55 | 6°57 | 19°21 | 19°15 | 25°53 | 24°49 | 17°15 | 20°48 | 19°41 | 17°20 | 26°44 | M26 |
| T 27 | 2 22 43 | 3°57'32 | 17°14 | 21°16 | 19° 3 | 7°32 | 19°29 | 19°19 | 25°50 | 24°48 | 17°15 | 20°46 | 19°37 | 17°26 | 26°41 | T 27 |
| W28 | 2 26 39 | 4°57'38 | 1 ≏ 30 | 22°42 | 20°11 | 8° 7 | 19°36 | 19°23 | 25°48 | 24°48 | 17°15 | 20°41 | 19°34 | 17°33 | 26°38 | W28 |
| T 29 | 2 30 36 | 5°57'45 | 15°42 | 24° 8 | 21°18 | 8°42 | 19°43 | 19°26 | 25°45 | 24°48 | 17°14 | 20°33 | 19°31 | 17°39 | 26°35 | T 29 |
| F 30 | 2 34 32 | 6°57'54 | 29°45 | 25°33 | 22°26 | 9°17 | 19°50 | 19°30 | 25°43 | 24°48 | 17°14 | 20°22 | 19°28 | 17°46 | 26°32 | F 30 |
| S 31 | 2 38 29 | 7 M 58'06 | 13 M 34 | 26M57 | 23 × 33 | 9 ⋒ 52 | 19 Ω 56 | 19 Ω 33 | 25 Ƴ 41 | 24≈47 | 179514 | 20Ω10 | 19 Ω 25 | 17≈53 | 26 Y 29 | S 31 |

Delta T = 22.12 sec

NOVEMBER 1682 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | В | n | Ω | Ç | Q K | Day |
|------|---------|------------------|-----------------|----------------|-----------------|-----------------|---------------|----------------|----------------|--------|--------|----------------|----------------|-------|----------------|------|
| S 1 | 2 42 26 | 8M58'19 | 27 M 6 | 28M20 | 24 × 740 | 10 m)27 | 20 N 3 | 19 Ω 36 | 25°R38 | 24°R47 | 17°R13 | 19°R57 | 19 Ω 22 | 17≈59 | 26°R26 | S 1 |
| M 2 | 2 46 22 | 9°58'34 | 10 ∡ 17 | 29°42 | 25°47 | 11° 1 | 20° 9 | 19°39 | 25 Y 36 | 24≈47 | 179513 | 19 Ω 45 | 19°18 | 18° 6 | 26 Y 24 | M 2 |
| T 3 | 2 50 19 | 10°58'50 | 23° 6 | 1 才 4 | 26°54 | 11°36 | 20°16 | 19°42 | 25°33 | 24°47 | 17°13 | 19°35 | 19°15 | 18°13 | 26°21 | T 3 |
| W 4 | 2 54 15 | 11°59'08 | 5 云 36 | 2°24 | 28° 1 | 12°11 | 20°22 | 19°45 | 25°31 | 24°47 | 17°12 | 19°28 | 19°12 | 18°19 | 26°18 | W 4 |
| T 5 | 2 58 12 | 12°59'28 | 17°48 | 3°43 | 29° 7 | 12°45 | 20°28 | 19°48 | 25°29 | 24°47 | 17°12 | 19°23 | 19° 9 | 18°26 | 26°15 | T 5 |
| F 6 | 3 2 8 | 13°59'49 | 29°46 | 5° 1 | 0 궁 13 | 13°19 | 20°34 | 19°51 | 25°26 | 24°D47 | 17°11 | 19°21 | 19° 6 | 18°33 | 26°12 | F 6 |
| S 7 | 3 6 5 | 15° 0'11 | 11 ≈ 37 | 6°18 | 1°19 | 13°54 | 20°39 | 19°54 | 25°24 | 24°47 | 17°11 | 19°20 | 19° 2 | 18°39 | 26°10 | S 7 |
| S 8 | 3 10 1 | 16° 0'35 | 23°24 | 7°33 | 2°25 | 14°28 | 20°45 | 19°56 | 25°22 | 24°47 | 17°10 | 19°20 | 18°59 | 18°46 | 26° 7 | S 8 |
| M 9 | 3 13 58 | 17° 1'00 | 5) 15 | 8°46 | 3°31 | 15° 2 | 20°50 | 19°59 | 25°20 | 24°47 | 17°10 | 19°20 | 18°56 | 18°53 | 26° 4 | M 9 |
| T 10 | 3 17 55 | 18° 1'27 | 17°13 | 9°58 | 4°36 | 15°36 | 20°55 | 20° 1 | 25°17 | 24°47 | 17° 9 | 19°17 | 18°53 | 18°59 | 26° 1 | T 10 |
| W11 | 3 21 51 | 19° 1'54 | 29°25 | 11° 7 | 5°42 | 16°10 | 21° 1 | 20° 3 | 25°15 | 24°47 | 17° 9 | 19°13 | 18°50 | 19° 6 | 25°59 | W11 |
| T 12 | 3 25 48 | 20° 2'24 | 11 Y 53 | 12°13 | 6°47 | 16°44 | 21° 5 | 20° 6 | 25°13 | 24°47 | 17° 8 | 19° 5 | 18°47 | 19°12 | 25°56 | T 12 |
| F 13 | 3 29 44 | 21° 2'54 | 24°41 | 13°17 | 7°51 | 17°18 | 21°10 | 20° 8 | 25°11 | 24°48 | 17° 8 | 18°55 | 18°43 | 19°19 | 25°54 | F 13 |
| S 14 | 3 33 41 | 22° 3'26 | 7 8 50 | 14°17 | 8°56 | 17°52 | 21°15 | 20°10 | 25° 9 | 24°48 | 17° 7 | 18°43 | 18°40 | 19°26 | 25°51 | S 14 |
| S 15 | 3 37 37 | 23° 4'00 | 21°18 | 15°14 | 10° 0 | 18°26 | 21°19 | 20°11 | 25° 7 | 24°48 | 17° 6 | 18°30 | 18°37 | 19°32 | 25°48 | S 15 |
| M16 | 3 41 34 | 24° 4'35 | 5 Ⅱ 2 | 16° 7 | 11° 4 | 18°59 | 21°23 | 20°13 | 25° 5 | 24°49 | 17° 6 | 18°17 | 18°34 | 19°39 | 25°46 | M16 |
| T 17 | 3 45 30 | 25° 5'12 | 19° 0 | 16°55 | 12° 7 | 19°33 | 21°27 | 20°15 | 25° 3 | 24°49 | 17° 5 | 18° 6 | 18°31 | 19°46 | 25°43 | T 17 |
| W18 | 3 49 27 | 26° 5'50 | 3 9 5 7 | 17°37 | 13°11 | 20° 6 | 21°31 | 20°16 | 25° 1 | 24°49 | 17° 4 | 17°57 | 18°27 | 19°52 | 25°41 | W18 |
| T 19 | 3 53 24 | 27° 6'30 | 17°17 | 18°14 | 14°14 | 20°40 | 21°35 | 20°18 | 24°59 | 24°50 | 17° 3 | 17°51 | 18°24 | 19°59 | 25°39 | T 19 |
| F 20 | 3 57 20 | 28° 7'11 | 1 Ω 28 | 18°44 | 15°17 | 21°13 | 21°38 | 20°19 | 24°57 | 24°50 | 17° 3 | 17°49 | 18°21 | 20° 6 | 25°36 | F 20 |
| S 21 | 4 1 17 | 29° 7'55 | 15°37 | 19° 6 | 16°19 | 21°46 | 21°41 | 20°20 | 24°55 | 24°51 | 17° 2 | 17°D48 | 18°18 | 20°12 | 25°34 | S 21 |
| S 22 | 4 5 13 | 0 ₮ 8'39 | 29°43 | 19°21 | 17°21 | 22°19 | 21°45 | 20°21 | 24°53 | 24°51 | 17° 1 | 17°R48 | 18°15 | 20°19 | 25°31 | S 22 |
| M23 | 4 9 10 | 1° 9'25 | 13 m 45 | 19°R26 | 18°23 | 22°52 | 21°47 | 20°22 | 24°51 | 24°52 | 17° 0 | 17°48 | 18°12 | 20°26 | 25°29 | M23 |
| T 24 | 4 13 6 | 2°10'13 | 27°43 | 19°21 | 19°24 | 23°25 | 21°50 | 20°23 | 24°49 | 24°53 | 16°59 | 17°45 | 18° 8 | 20°32 | 25°27 | T 24 |
| W25 | 4 17 3 | 3°11'03 | 11 ≏ 35 | 19° 6 | 20°25 | 23°58 | 21°53 | 20°24 | 24°47 | 24°53 | 16°59 | 17°40 | 18° 5 | 20°39 | 25°25 | W25 |
| T 26 | 4 20 59 | 4°11'53 | 25°20 | 18°40 | 21°26 | 24°30 | 21°55 | 20°24 | 24°46 | 24°54 | 16°58 | 17°32 | 18° 2 | 20°45 | 25°23 | T 26 |
| F 27 | 4 24 56 | 5°12'45 | 8 M .56 | 18° 3 | 22°26 | 25° 3 | 21°57 | 20°25 | 24°44 | 24°55 | 16°57 | 17°22 | 17°59 | 20°52 | 25°21 | F 27 |
| S 28 | 4 28 53 | 6°13'39 | 22°21 | 17°15 | 23°26 | 25°35 | 21°59 | 20°25 | 24°42 | 24°55 | 16°56 | 17°10 | 17°56 | 20°59 | 25°18 | S 28 |
| S 29 | 4 32 49 | 7°14'34 | 5 ₹ 32 | 16°17 | 24°26 | 26° 8 | 22° 1 | 20°26 | 24°41 | 24°56 | 16°55 | 16°57 | 17°53 | 21° 5 | 25°16 | S 29 |
| M30 | 4 36 46 | 8 ∡ 15'29 | 18 ∡ 128 | 15 ∡ 10 | 25 궁 25 | 26 M)40 | 22 N 3 | 20 Ω 26 | 24 Y 39 | 24≈57 | 16954 | 16 Ω 45 | 17 Ω 49 | 21≈12 | 25 Υ 14 | M30 |

Delta T = 22.08 sec

Greg. Calendar

| DECEMBER 1682 GC | 00:00 UT |
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| DECEMBER 1002 OC | 00:00 01 |

| Day | Sid.t | \odot | D | φ | φ | o ⁷ | 4 | ħ |)∤(| ¥ | P 2 | ß | Ω | \$ | Š | Day |
|------|---------|-------------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|-------|--------|----------------|----------------|-------|----------------|------|
| T 1 | 4 40 42 | 9 ∡ 16'26 | 1중 7 | 13°R55 | 26 궁 23 | 27 m/12 | 22 N 4 | 20°R26 | 24°R38 | 24≈58 | 16°R53 | 16°R35 | 17 Ω 46 | 21≈19 | 25°R13 | T 1 |
| W 2 | 4 44 39 | 10°17'24 | 13°30 | 12 × 35 | 27°22 | 27°44 | 22° 5 | 20№26 | 24 Y 36 | 24°59 | 16952 | 16 Ω 28 | 17°43 | 21°25 | 25 Y 11 | W 2 |
| T 3 | 4 48 35 | 11°18'23 | 25°38 | 11°12 | 28°19 | 28°16 | 22° 6 | 20°26 | 24°35 | 25° 0 | 16°51 | 16°23 | 17°40 | 21°32 | 25° 9 | T 3 |
| F 4 | 4 52 32 | 12°19'22 | 7≈36 | 9°50 | 29°16 | 28°48 | 22° 7 | 20°25 | 24°33 | 25° 0 | 16°50 | 16°20 | 17°37 | 21°39 | 25° 7 | F 4 |
| S 5 | 4 56 28 | 13°20'22 | 19°25 | 8°30 | 0≈13 | 29°19 | 22° 8 | 20°25 | 24°32 | 25° 1 | 16°49 | 16°D20 | 17°33 | 21°45 | 25° 5 | S 5 |
| S 6 | 5 0 25 | 14°21'22 | 1) 12 | 7°16 | 1° 9 | 29°51 | 22° 8 | 20°24 | 24°30 | 25° 2 | 16°48 | 16°21 | 17°30 | 21°52 | 25° 4 | S 6 |
| M 7 | 5 4 22 | 15°22'24 | 13° 1 | 6°10 | 2° 4 | 0 ჲ 22 | 22° 9 | 20°24 | 24°29 | 25° 3 | 16°47 | 16°R21 | 17°27 | 21°59 | 25° 2 | M 7 |
| T 8 | 5 8 18 | 16°23'25 | 24°59 | 5°12 | 2°59 | 0°54 | 22°R 9 | 20°23 | 24°28 | 25° 5 | 16°46 | 16°21 | 17°24 | 22° 5 | 25° 0 | T 8 |
| W 9 | 5 12 15 | 17°24'27 | 7 Υ 10 | 4°26 | 3°53 | 1°25 | 22° 8 | 20°22 | 24°27 | 25° 6 | 16°45 | 16°19 | 17°21 | 22°12 | 24°59 | W 9 |
| T 10 | 5 16 11 | 18°25'30 | 19°39 | 3°50 | 4°47 | 1°56 | 22° 8 | 20°21 | 24°25 | 25° 7 | 16°44 | 16°14 | 17°18 | 22°19 | 24°57 | T 10 |
| F 11 | 5 20 8 | 19°26'33 | 2 8 31 | 3°26 | 5°39 | 2°27 | 22° 8 | 20°20 | 24°24 | 25° 8 | 16°43 | 16° 7 | 17°14 | 22°25 | 24°56 | F 11 |
| S 12 | 5 24 4 | 20°27'37 | 15°47 | 3°12 | 6°31 | 2°57 | 22° 7 | 20°19 | 24°23 | 25° 9 | 16°42 | 15°59 | 17°11 | 22°32 | 24°55 | S 12 |
| S 13 | 5 28 1 | 21°28'41 | 29°28 | 3°D 9 | 7°23 | 3°28 | 22° 6 | 20°18 | 24°22 | 25°10 | 16°40 | 15°49 | 17° 8 | 22°38 | 24°53 | S 13 |
| M14 | 5 31 57 | 22°29'45 | 13 Ⅱ 31 | 3°16 | 8°13 | 3°59 | 22° 5 | 20°16 | 24°21 | 25°12 | 16°39 | 15°40 | 17° 5 | 22°45 | 24°52 | M14 |
| T 15 | 5 35 54 | 23°30'50 | 27°52 | 3°32 | 9° 3 | 4°29 | 22° 3 | 20°15 | 24°20 | 25°13 | 16°38 | 15°32 | 17° 2 | 22°52 | 24°51 | T 15 |
| W16 | 5 39 51 | 24°31'56 | 129525 | 3°56 | 9°52 | 4°59 | 22° 2 | 20°13 | 24°19 | 25°14 | 16°37 | 15°25 | 16°59 | 22°58 | 24°50 | W16 |
| T 17 | 5 43 47 | 25°33'02 | 27° 4 | 4°27 | 10°40 | 5°29 | 22° 0 | 20°11 | 24°19 | 25°16 | 16°36 | 15°22 | 16°55 | 23° 5 | 24°49 | T 17 |
| F 18 | 5 47 44 | 26°34'09 | 11 Ω 40 | 5° 5 | 11°27 | 5°59 | 21°58 | 20°10 | 24°18 | 25°17 | 16°35 | 15°D20 | 16°52 | 23°12 | 24°48 | F 18 |
| S 19 | 5 51 40 | 27°35'17 | 26°10 | 5°49 | 12°13 | 6°29 | 21°56 | 20° 8 | 24°17 | 25°18 | 16°33 | 15°21 | 16°49 | 23°18 | 24°47 | S 19 |
| S 20 | 5 55 37 | 28°36'25 | 10 m 29 | 6°38 | 12°59 | 6°58 | 21°54 | 20° 6 | 24°16 | 25°20 | 16°32 | 15°22 | 16°46 | 23°25 | 24°46 | S 20 |
| M21 | 5 59 33 | 2 <u>9</u> °37'33 | 24°36 | 7°32 | 13°43 | 7°28 | 21°51 | 20° 4 | 24°16 | 25°21 | 16°31 | 15°R23 | 16°43 | 23°32 | 24°45 | M21 |
| T 22 | 6 3 30 | 0 ට 38'43 | 8 ₾ 29 | 8°30 | 14°26 | 7°57 | 21°49 | 20° 1 | 24°15 | 25°23 | 16°30 | 15°23 | 16°39 | 23°38 | 24°44 | T 22 |
| W23 | 6 7 26 | 1°39'53 | 22° 8 | 9°31 | 15° 8 | 8°26 | 21°46 | 19°59 | 24°15 | 25°24 | 16°28 | 15°21 | 16°36 | 23°45 | 24°43 | W23 |
| T 24 | 6 11 23 | 2°41'03 | 5 M .34 | 10°36 | 15°49 | 8°55 | 21°43 | 19°57 | 24°14 | 25°26 | 16°27 | 15°17 | 16°33 | 23°52 | 24°42 | T 24 |
| F 25 | 6 15 20 | 3°42'14 | 18°48 | 11°44 | 16°28 | 9°24 | 21°40 | 19°54 | 24°14 | 25°27 | 16°26 | 15°11 | 16°30 | 23°58 | 24°42 | F 25 |
| S 26 | 6 19 16 | 4°43'25 | 1 ∡ 748 | 12°54 | 17° 7 | 9°52 | 21°36 | 19°51 | 24°13 | 25°29 | 16°25 | 15° 4 | 16°27 | 24° 5 | 24°41 | S 26 |
| S 27 | 6 23 13 | 5°44'36 | 14°36 | 14° 6 | 17°44 | 10°21 | 21°33 | 19°49 | 24°13 | 25°30 | 16°23 | 14°56 | 16°24 | 24°12 | 24°41 | S 27 |
| M28 | 6 27 9 | 6°45'48 | 2 <u>7</u> °12 | 15°20 | 18°20 | 10°49 | 21°29 | 19°46 | 24°13 | 25°32 | 16°22 | 14°49 | 16°20 | 24°18 | 24°40 | M28 |
| T 29 | 6 31 6 | 7°47'00 | 9 궁 35 | 16°36 | 18°54 | 11°17 | 21°25 | 19°43 | 24°12 | 25°34 | 16°21 | 14°43 | 16°17 | 24°25 | 24°40 | T 29 |
| W30 | 6 35 2 | <u>8°48'12</u> | 21°47 | 17°54 | 19°27 | 11°45 | 21°21 | 19°40 | 24°12 | 25°35 | 16°20 | 14°39 | 16°14 | 24°31 | 24°40 | W30 |
| T 31 | 6 38 59 | 9 ට 49'23 | 3≈48 | 19 ,7 13 | 19≈59 | 12 ≏ 12 | 21 Ω 16 | 19 Ω 37 | 24 Υ 12 | 25≈37 | 169918 | 14 Ω 36 | 16 Ω 11 | 24≈38 | 24 Y 39 | T 31 |

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|--------------|--------------------|----------------------|--------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|--------------|
| F 1 | 6 42 55 | 10る50'35 | 15≈42 | 20 × 33 | 20≈29 | 12 ≏ 40 | 21°R12 | 19°R34 | 24°R12 | 25≈39 | 16°R17 | 14°D36 | 16 N 8 | 24≈45 | 24°R39 | F 1 |
| S 2 | 6 46 52 | 11°51'46 | 27°30 | 21°55 | 20°57 | 13° 7 | 21 0 7 | 19 Ω 30 | 24°D12 | 25°41 | 16916 | 14 Ω 36 | 16° 5 | 24°51 | 24 Y 39 | S 2 |
| S 3 | 6 50 49 | 12°52'56 | 9 ∺ 16 | 23°17 | 21°23 | 13°34 | 21° 2 | 19°27 | 24 Y 12 | 25°42 | 16°15 | 14°38 | 16° 1 | 24°58 | 24°39 | S 3 |
| M 4 | 6 54 45 | 13°54'06 | 21° 5 | 24°40 | 21°48 | 14° 0 | 20°57 | 19°24 | 24°12 | 25°44 | 16°13 | 14°40 | 15°58 | 25° 5 | 24°D39 | M 4 |
| T 5 | 6 58 42 | 14°55'16 | 3 Υ 1 | 26° 5 | 22°11 | 14°27 | 20°52 | 19°20 | 24°12 | 25°46 | 16°12 | 14°42 | 15°55 | 25°11 | 24°39 | T 5 |
| W 6 | 7 2 38 | 15°56'25 | 15° 9 | 27°30 | 22°32 | 14°53 | 20°47 | 19°17 | 24°12 | 25°48 | 16°11 | 14°R42 | 15°52 | 25°18 | 24°39 | W 6 |
| T 7 | 7 6 35 | 16°57'34 17°58'42 | 27°34 10 8 22 | 28°56 0 る 22 | 22°51 23° 8 | 15°19 15°45 | 20°41 20°36 | 19°13 19° 9 | 24°13 24°13 | 25°50 25°52 | 16° 9 16° 8 | 14°42 | 15°49 15°45 | 25°25 25°31 | 24°39 24°39 | T 7 F 8 |
| F 8 S 9 | 7 10 31 7 14 28 | 17°58'42 18°59'49 | 23°34 | 1°50 | 23°23 | 16°11 | 20°30 | 19° 9 | 24°13 | 25°52 25°53 | 16° 8 | 14°40 14°37 | 15°43 | 25°38 | 24°39 24°40 | F 8 S 9 |
| | | | | | | _ | | | | | | | | | - | |
| S 10 | 7 18 24 7 22 21 | 20° 0'56 21° 2'02 | 7 Ⅱ 14 21°21 | 3°18 4°46 | 23°35 23°46 | 16°36 17° 1 | 20°24 20°18 | 19° 1 | 24°14 24°14 | 25°55 25°57 | 16° 6 16° 4 | 14°33 14°30 | 15°39 15°36 | 25°45 25°51 | 24°40 24°40 | S 10 M11 |
| M11 T 12 | 7 26 18 | 21° 202 22° 3'07 | 5952 | 6°16 | 23°54 | 17°26 | 20°18 20°12 | 18°57 18°53 | 24°14 24°15 | 25°59 | 16° 4 | 14°30 | 15°33 | 25°58 | 24°40 24°41 | T 12 |
| W13 | 7 30 14 | 23° 4'12 | 20°42 | 7°45 | 23°59 | 17°51 | 20° 6 | 18°49 | 24°15 | 25° 1 | 16° 2 | 14°24 | 15°30 | 25° 5 | 24°41 | W13 |
| T 14 | 7 34 11 | 24° 5'16 | $5\Omega 42$ | 9°16 | 24° 3 | 18°15 | 19°59 | 18°45 | 24°16 | 26° 3 | 16° 0 | 14°23 | 15°26 | 26°11 | 24°42 | T 14 |
| F 15 | 7 38 7 | 25° 6'20 | 20°44 | 10°47 | 24°R 4 | 18°39 | 19°53 | 18°41 | 24°16 | 26° 5 | 15°59 | 14°D23 | 15°23 | 26°18 | 24°43 | F 15 |
| S 16 | 7 42 4 | 26° 7'23 | 5 m /40 | 12°19 | 24° 2 | 19° 3 | 19°46 | 18°37 | 24°17 | 26° 7 | 15°58 | 14°24 | 15°20 | 26°24 | 24°43 | S 16 |
| S 17 | 7 46 0 | 27° 8'25 | 20°22 | 13°51 | 23°58 | 19°26 | 19°39 | 18°32 | 24°18 | 26° 9 | 15°57 | 14°25 | 15°17 | 26°31 | 24°44 | S 17 |
| M18 | 7 49 57 | 28° 9'27 | 4 ≏ 46 | 15°24 | 23°51 | 19°49 | 19°32 | 18°28 | 24°19 | 26°11 | 15°55 | 14°26 | 15°14 | 26°38 | 24°45 | M18 |
| T 19 | 7 53 54 | 29°10'29 | 18°48 | 16°57 | 23°42 | 20°12 | 19°25 | 18°24 | 24°20 | 26°13 | 15°54 | 14°27 | 15°11 | 26°44 | 24°46 | T 19 |
| W20 | 7 57 50 | 0≈11'30 | 2M29 | 18°31 | 23°31 | 20°35 | 19°18 | 18°19 | 24°20 | 26°15 | 15°53 | 14°R27 | 15° 7 | 26°51 | 24°47 | W20 |
| T 21 | 8 1 47 | 1°12'31 | 15°49 | 20° 6 | 23°17 | 20°57 | 19°11 | 18°15 | 24°21 | 26°18 | 15°52 | 14°27 | 15° 4 | 26°58 | 24°48 | T 21 |
| F 22 S 23 | 8 5 43 8 9 40 | 2°13'31 3°14'30 | 28°50 11 × 734 | 21°41 23°17 | 23° 0 22°41 | 21°19 21°41 | 19° 4 18°56 | 18°10 18° 5 | 24°22 24°23 | 26°20 26°22 | 15°50 15°49 | 14°26 14°24 | 15° 1 14°58 | 27° 4 27°11 | 24°49 24°50 | F 22 S 23 |
| | - , | | | | | | | | | | | | | | | |
| S 24 | 8 13 36 | 4°15'29 | 24° 4 | 24°53 | 22°20 | 22° 2 | 18°49 | 18° 1 | 24°25 | 26°24 | 15°48 | 14°23 | 14°55 | 27°18 | 24°51 | S 24 |
| M25 T 26 | 8 17 33 8 21 29 | 5°16'27 6°17'24 | 6 る 22 18°29 | 26°31 28° 8 | 21°56 21°31 | 22°23 22°44 | 18°41 18°34 | 17°56 17°51 | 24°26 24°27 | 26°26 26°28 | 15°47 15°46 | 14°21 14°20 | 14°51 14°48 | 27°24 27°31 | 24°52 24°53 | M25 T 26 |
| W27 | 8 25 26 | 7°18'20 | 18 29 0 ≈ 29 | 20 0 29°47 | 21° 3 | 22 44 23° 4 | 18°26 | 17°47 | 24°28 | 26°30 | 15°44 | 14°19 | 14°45 | 27°38 | 24°55 | W27 |
| T 28 | 8 29 23 | 8°19'15 | 12°22 | 1 ≈ 26 | 20°33 | 23°24 | 18°18 | 17°42 | 24°30 | 26°33 | 15°43 | 14°D19 | 14°42 | 27°44 | 24°56 | T 28 |
| F 29 | 8 33 19 | 9°20'09 | 24°12 | 3° 6 | 20° 2 | 23°43 | 18°11 | 17°37 | 24°31 | 26°35 | 15°42 | 14°19 | 14°39 | 27°51 | 24°58 | F 29 |
| S 30 | 8 37 16 | 10°21'01 | 5 ¥ 59 | 4°47 | 19°29 | 24° 3 | 18° 3 | 17°32 | 24°32 | 26°37 | 15°41 | 14°20 | 14°36 | 27°58 | 24°59 | S 30 |
| S 31 | 8 41 12 | 11≈21'53 | 17) 47 | 6≈29 | 18≈55 | 24 ≏ 21 | 17 Ω 55 | 17 Ω 27 | 24 Y 34 | 26≈39 | 159540 | 14 Ω 20 | 14 \O 32 | 28≈ 4 | 25 Y 1 | S 31 |

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|------|----------|--------------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|-------|--------|----------------|---------------|---------------|---------------|------|
| M 1 | 8 45 9 | 12≈22'42 | 29 米 38 | 8≈11 | 18°R20 | 24 <u>₽</u> 40 | 17°R47 | 17°R23 | 24 Y 35 | 26≈41 | 15°R39 | 14 Ω 20 | 14€29 | 28≈11 | 25 ° 2 | M 1 |
| T 2 | 8 49 5 | 13°23'31 | 11 Y 35 | 9°54 | 17 ≈ 44 | 24°58 | 17 Ω 39 | 17 Ω 18 | 24°37 | 26°44 | 15937 | 14°21 | 14°26 | 28°17 | 25° 4 | T 2 |
| W 3 | 8 53 2 | 14°24'18 | 23°44 | 11°38 | 17° 7 | 25°15 | 17°31 | 17°13 | 24°38 | 26°46 | 15°36 | 14°R21 | 14°23 | 28°24 | 25° 6 | W 3 |
| T 4 | 8 56 58 | 15°25'04 | 6 8 7 | 13°22 | 16°30 | 25°32 | 17°23 | 17° 8 | 24°40 | 26°48 | 15°35 | 14°21 | 14°20 | 28°31 | 25° 7 | T 4 |
| F 5 | 9 0 55 | 16°25'47 | 18°49 | 15° 8 | 15°52 | 25°49 | 17°15 | 17° 3 | 24°42 | 26°50 | 15°34 | 14°D21 | 14°17 | 28°37 | 25° 9 | F 5 |
| S 6 | 9 4 51 | 17°26'30 | 1 II 53 | 16°54 | 15°15 | 26° 5 | 17° 7 | 16°58 | 24°43 | 26°53 | 15°33 | 14°21 | 14°13 | 28°44 | 25°11 | S 6 |
| S 7 | 9 8 48 | 18°27'11 | 15°23 | 18°41 | 14°38 | 26°21 | 17° 0 | 16°53 | 24°45 | 26°55 | 15°32 | 14°21 | 14°10 | 28°51 | 25°13 | S 7 |
| M 8 | 9 12 45 | 19°27'50 | 29°20 | 20°28 | 14° 2 | 26°36 | 16°52 | 16°48 | 24°47 | 26°57 | 15°31 | 14°21 | 14° 7 | 28°57 | 25°15 | M 8 |
| T 9 | 9 16 41 | 20°28'27 | 139544 | 22°17 | 13°27 | 26°51 | 16°44 | 16°43 | 24°49 | 26°59 | 15°30 | 14°22 | 14° 4 | 29° 4 | 25°17 | T 9 |
| W10 | 9 20 38 | 21°29'03 | 28°32 | 24° 6 | 12°52 | 27° 5 | 16°36 | 16°39 | 24°51 | 27° 2 | 15°29 | 14°22 | 14° 1 | 29°11 | 25°19 | W10 |
| T 11 | 9 24 34 | 22°29'37 | 13 Ω 37 | 25°56 | 12°19 | 27°19 | 16°28 | 16°34 | 24°53 | 27° 4 | 15°28 | 14°R23 | 13°57 | 29°17 | 25°21 | T 11 |
| F 12 | 9 28 31 | 23°30'10 | 28°51 | 27°46 | 11°48 | 27°33 | 16°20 | 16°29 | 24°55 | 27° 6 | 15°27 | 14°22 | 13°54 | 29°24 | 25°24 | F 12 |
| S 13 | 9 32 27 | 24°30'40 | 14Mp 4 | 29°37 | 11°18 | 27°45 | 16°12 | 16°24 | 24°57 | 27° 9 | 15°26 | 14°22 | 13°51 | 29°31 | 25°26 | S 13 |
| S 14 | 9 36 24 | 25°31'10 | 29° 6 | 1 ∺ 29 | 10°51 | 27°58 | 16° 4 | 16°19 | 24°59 | 27°11 | 15°25 | 14°20 | 13°48 | 29°37 | 25°28 | S 14 |
| M15 | 9 40 20 | 26°31'38 | 13 ≏ 50 | 3°21 | 10°25 | 28°10 | 15°57 | 16°15 | 25° 1 | 27°13 | 15°24 | 14°19 | 13°45 | 29°44 | 25°30 | M15 |
| T 16 | 9 44 17 | 27°32'05 | 28° 9 | 5°13 | 10° 2 | 28°21 | 15°49 | 16°10 | 25° 3 | 27°15 | 15°23 | 14°17 | 13°42 | 29°51 | 25°33 | T 16 |
| W17 | 9 48 14 | 28°32'30 | 12 M 2 | 7° 5 | 9°40 | 28°32 | 15°41 | 16° 5 | 25° 5 | 27°18 | 15°22 | 14°16 | 13°38 | 29°57 | 25°35 | W17 |
| T 18 | 9 52 10 | 29°32'54 | 25°27 | 8°57 | 9°21 | 28°42 | 15°34 | 16° 0 | 25° 8 | 27°20 | 15°21 | 14°D16 | 13°35 | 0) 4 | 25°38 | T 18 |
| F 19 | 9 56 7 | 0) (33′17 | 8 . ₹27 | 10°49 | 9° 5 | 28°51 | 15°26 | 15°56 | 25°10 | 27°22 | 15°21 | 14°16 | 13°32 | 0°11 | 25°40 | F 19 |
| S 20 | 10 0 3 | 1°33'38 | 21° 6 | 12°40 | 8°51 | 29° 0 | 15°19 | 15°51 | 25°12 | 27°24 | 15°20 | 14°17 | 13°29 | 0°17 | 25°43 | S 20 |
| S 21 | 10 4 0 | 2°33'58 | 3 ප 27 | 14°31 | 8°39 | 29° 9 | 15°12 | 15°47 | 25°15 | 27°27 | 15°19 | 14°18 | 13°26 | 0°24 | 25°45 | S 21 |
| M22 | 10 7 56 | 3°34'17 | 15°34 | 16°20 | 8°30 | 29°16 | 15° 4 | 15°42 | 25°17 | 27°29 | 15°18 | 14°20 | 13°23 | 0°30 | 25°48 | M22 |
| T 23 | 10 11 53 | 4°34'33 | 27°31 | 18° 7 | 8°24 | 29°23 | 14°57 | 15°38 | 25°19 | 27°31 | 15°17 | 14°21 | 13°19 | 0°37 | 25°51 | T 23 |
| W24 | 10 15 49 | 5°34'49 | 9≈22 | 19°53 | 8°20 | 29°30 | 14°50 | 15°33 | 25°22 | 27°34 | 15°17 | 14°R22 | 13°16 | 0°44 | 25°53 | W24 |
| T 25 | 10 19 46 | 6°35'02 | 21°10 | 21°36 | 8°D18 | 29°36 | 14°43 | 15°29 | 25°24 | 27°36 | 15°16 | 14°22 | 13°13 | 0°50 | 25°56 | T 25 |
| F 26 | 10 23 43 | 7°35'14 | 2 米 57 | 23°16 | 8°19 | 29°41 | 14°36 | 15°24 | 25°27 | 27°38 | 15°15 | 14°21 | 13°10 | 0°57 | 25°59 | F 26 |
| S 27 | 10 27 39 | 8°35'24 | 14°46 | 24°53 | 8°22 | 29°45 | 14°30 | 15°20 | 25°30 | 27°40 | 15°14 | 14°18 | 13° 7 | 1° 4 | 26° 2 | S 27 |
| S 28 | 10 31 36 | 9 ∺ 35'32 | 26 ∺ 38 | 26 ∺ 25 | 8≈27 | 29 ≏ 49 | 14 \O 23 | 15 Ω 16 | 25 Y 32 | 27≈43 | 159914 | 14Ω14 | 13 Ω 3 | 1 ∺ 10 | 26 Y 5 | S 28 |

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| M 1 | 10 35 32 | 10 ¥ 35'38 | 8 Y 36 | 27 米 53 | 8≈35 | 29 ჲ 52 | 14°R17 | 15°R12 | 25 Y 35 | 27≈45 | 15°R13 | 14°R10 | 13 Ω 0 | 1) 17 | 26 Y 8 | M 1 |
| T 2 | 10 39 29 | 11°35'42 | 20°41 | 29°16 | 8°45 | 29°55 | 14 Ω 10 | 15 Ω 8 | 25°37 | 27°47 | 159912 | 14Ω 5 | 12°57 | 1°24 | 26°11 | T 2 |
| W 3 | 10 43 25 | 12°35'44 | 2856 | 0 Υ 33 | 8°57 | 29°56 | 14° 4 | 15° 3 | 25°40 | 27°49 | 15°12 | 14° 0 | 12°54 | 1°30 | 26°14 | W 3 |
| T 4 | 10 47 22 | 13°35'44 | 15°23 | 1°43 | 9°11 | 29°57 | 13°58 | 14°59 | 25°43 | 27°51 | 15°11 | 13°56 | 12°51 | 1°37 | 26°17 | T 4 |
| F 5 | 10 51 18 | 14°35'41 | 28° 5 | 2°47 | 9°27 | 29°R58 | 13°52 | 14°56 | 25°46 | 27°54 | 15°11 | 13°54 | 12°48 | 1°44 | 26°20 | F 5 |
| S 6 | 10 55 15 | 15°35'37 | 11 II 5 | 3°44 | 9°46 | 29°57 | 13°46 | 14°52 | 25°48 | 27°56 | 15°10 | 13°D53 | 12°44 | 1°50 | 26°23 | S 6 |
| S 7 | 10 59 12 | 16°35'30 | 24°26 | 4°33 | 10° 6 | 29°56 | 13°40 | 14°48 | 25°51 | 27°58 | 15°10 | 13°53 | 12°41 | 1°57 | 26°26 | S 7 |
| M 8 | 11 3 8 | 17°35'22 | 89्छ11 | 5°14 | 10°28 | 29°54 | 13°35 | 14°44 | 25°54 | 28° 0 | 15° 9 | 13°54 | 12°38 | 2° 4 | 26°29 | M 8 |
| T 9 | 11 7 5 | 18°35'11 | 22°19 | 5°47 | 10°51 | 29°51 | 13°29 | 14°41 | 25°57 | 28° 2 | 15° 9 | 13°55 | 12°35 | 2°10 | 26°32 | T 9 |
| W10 | 11 11 1 | 19°34'57 | 6 Ω 51 | 6°11 | 11°17 | 29°48 | 13°24 | 14°37 | 26° 0 | 28° 5 | 15° 8 | 13°R56 | 12°32 | 2°17 | 26°36 | W10 |
| T 11 | 11 14 58 | 20°34'42 | 21°43 | 6°27 | 11°44 | 29°44 | 13°19 | 14°34 | 26° 3 | 28° 7 | 15° 8 | 13°56 | 12°28 | 2°24 | 26°39 | T 11 |
| F 12 | 11 18 54 | 21°34'24 | 6 m 50 | 6°R34 | 12°13 | 29°39 | 13°14 | 14°30 | 26° 6 | 28° 9 | 15° 7 | 13°55 | 12°25 | 2°30 | 26°42 | F 12 |
| S 13 | 11 22 51 | 22°34'04 | 22° 2 | 6°33 | 12°43 | 29°33 | 13° 9 | 14°27 | 26° 9 | 28°11 | 15° 7 | 13°51 | 12°22 | 2°37 | 26°46 | S 13 |
| S 14 | 11 26 47 | 23°33'42 | 7 ≙ 10 | 6°24 | 13°15 | 29°27 | 13° 5 | 14°24 | 26°12 | 28°13 | 15° 6 | 13°46 | 12°19 | 2°44 | 26°49 | S 14 |
| M15 | 11 30 44 | 24°33'18 | 22° 3 | 6° 7 | 13°48 | 29°19 | 13° 0 | 14°20 | 26°15 | 28°15 | 15° 6 | 13°40 | 12°16 | 2°50 | 26°52 | M15 |
| T 16 | 11 34 41 | 25°32'52 | 6 M .34 | 5°42 | 14°22 | 29°11 | 12°56 | 14°17 | 26°18 | 28°17 | 15° 6 | 13°33 | 12°13 | 2°57 | 26°56 | T 16 |
| W17 | 11 38 37 | 26°32'25 | 20°38 | 5°11 | 14°58 | 29° 2 | 12°52 | 14°14 | 26°21 | 28°19 | 15° 6 | 13°28 | 12° 9 | 3° 3 | 26°59 | W17 |
| T 18 | 11 42 34 | 27°31'55 | 4 × 13 | 4°34 | 15°35 | 28°53 | 12°48 | 14°12 | 26°24 | 28°21 | 15° 5 | 13°23 | 12° 6 | 3°10 | 27° 3 | T 18 |
| F 19 | 11 46 30 | 28°31'24 | 17°20 | 3°52 | 16°14 | 28°43 | 12°44 | 14° 9 | 26°27 | 28°23 | 15° 5 | 13°21 | 12° 3 | 3°17 | 27° 6 | F 19 |
| S 20 | 11 50 27 | 29°30'51 | 0중 1 | 3° 6 | 16°53 | 28°31 | 12°40 | 14° 6 | 26°30 | 28°25 | 15° 5 | 13°D20 | 12° 0 | 3°23 | 27°10 | S 20 |
| S 21 | 11 54 23 | 0 Ƴ 30'17 | 12°21 | 2°17 | 17°34 | 28°20 | 12°37 | 14° 3 | 26°34 | 28°27 | 15° 5 | 13°21 | 11°57 | 3°30 | 27°13 | S 21 |
| M22 | 11 58 20 | 1°29'41 | 24°25 | 1°26 | 18°16 | 28° 7 | 12°34 | 14° 1 | 26°37 | 28°29 | 15° 4 | 13°22 | 11°54 | 3°37 | 27°17 | M22 |
| T 23 | 12 2 16 | 2°29'02 | 6≈19 | 0°34 | 18°59 | 27°54 | 12°31 | 13°59 | 26°40 | 28°31 | 15° 4 | 13°23 | 11°50 | 3°43 | 27°20 | T 23 |
| W24 | 12 6 13 | 3°28'22 | 18° 7 | 29 米 43 | 19°42 | 27°40 | 12°28 | 13°56 | 26°43 | 28°33 | 15° 4 | 13°R23 | 11°47 | 3°50 | 27°24 | W24 |
| T 25 | 12 10 9 | 4°27'40 | 29°53 | 28°52 | 20°27 | 27°25 | 12°25 | 13°54 | 26°46 | 28°35 | 15° 4 | 13°22 | 11°44 | 3°57 | 27°28 | T 25 |
| F 26 | 12 14 6 | 5°26'56 | 11) (41 | 28° 4 | 21°13 | 27° 9 | 12°23 | 13°52 | 26°50 | 28°37 | 15° 4 | 13°18 | 11°41 | 4° 3 | 27°31 | F 26 |
| S 27 | 12 18 3 | 6°26'11 | 23°33 | 27°18 | 21°59 | 26°53 | 12°20 | 13°50 | 26°53 | 28°39 | 15° 4 | 13°11 | 11°38 | 4°10 | 27°35 | S 27 |
| S 28 | 12 21 59 | 7°25'23 | 5 Ƴ 33 | 26°36 | 22°47 | 26°36 | 12°18 | 13°48 | 26°56 | 28°41 | 15° 4 | 13° 3 | 11°34 | 4°17 | 27°39 | S 28 |
| M29 | 12 25 56 | 8°24'33 | 17°41 | 25°59 | 23°35 | 26°19 | 12°16 | 13°46 | 27° 0 | 28°43 | 15°D 4 | 12°53 | 11°31 | 4°23 | 27°42 | M29 |
| T 30 | 12 29 52 | 9°23'41 | 29°59 | 25°26 | 24°24 | 26° 1 | 12°14 | 13°44 | 27° 3 | 28°45 | 15° 4 | 12°42 | 11°28 | 4°30 | 27°46 | T 30 |
| W31 | 12 33 49 | 10 Y 22'47 | 12828 | 24 米 58 | 25≈13 | 25 ≏ 42 | 12 \O 13 | 13 Ω 43 | 27 Y 6 | 28 ≈ 47 | 1599 4 | 12 N 32 | 11 Ω 25 | 4) €37 | 27 Υ 50 | W31 |

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| T 1 | 12 37 45 | 11 Y 21'50 | 25 8 7 | 24°R36 | 26≈ 4 | 25°R23 | 12°R11 | 13°R41 | 27 Υ 10 | 28≈48 | 1595 4 | 12°R22 | 11 £ 22 | 4) (43 | 27 Y 54 | T 1 |
| F 2 | 12 41 42 | 12°20'52 | 7耳59 | 24 米 19 | 26°55 | 25 ♀ 3 | $12\Omega 10$ | 13 Ω 40 | 27°13 | 28°50 | 15° 4 | 12 Ω 15 | 11°19 | 4°50 | 27°57 | F 2 |
| S 3 | 12 45 38 | 13°19'51 | 21° 5 | 24° 7 | 27°46 | 24°43 | 12° 9 | 13°38 | 27°16 | 28°52 | 15° 4 | 12°11 | 11°15 | 4°57 | 28° 1 | S 3 |
| S 4 | 12 49 35 | 14°18'48 | 4926 | 24° 1 | 28°39 | 24°23 | 12° 8 | 13°37 | 27°20 | 28°54 | 15° 4 | 12° 8 | 11°12 | 5° 3 | 28° 5 | S 4 |
| M 5 | 12 53 32 | 15°17'43 | 18° 4 | 24°D 0 | 29°32 | 24° 2 | 12° 8 | 13°36 | 27°23 | 28°55 | 15° 5 | 12°D 8 | 11° 9 | 5°10 | 28° 9 | M 5 |
| T 6 | 12 57 28 | 16°16'35 | 2Ω 0 | 24° 5 | 0 ∺ 25 | 23°41 | 12° 7 | 13°35 | 27°26 | 28°57 | 15° 5 | 12° 8 | 11° 6 | 5°17 | 28°13 | T 6 |
| W 7 | 13 1 25 | 17°15'25 | 16°15 | 24°15 | 1°19 | 23°19 | 12° 7 | 13°34 | 27°30 | 28°59 | 15° 5 | 12°R 9 | 11° 3 | 5°23 | 28°16 | W 7 |
| T 8 | 13 5 21 | 18°14'13 | 0 m /47 | 24°30 | 2°14 | 22°57 | 12°D 7 | 13°34 | 27°33 | 29° 0 | 15° 5 | 12° 7 | 10°59 | 5°30 | 28°20 | T 8 |
| F 9 | 13 9 18 | 19°12'58 | 15°33 | 24°49 | 3° 9 | 22°35 | 12° 7 | 13°33 | 27°37 | 29° 2 | 15° 5 | 12° 4 | 10°56 | 5°37 | 28°24 | F 9 |
| S 10 | 13 13 14 | 20°11'41 | 0 ჲ 28 | 25°13 | 4° 5 | 22°12 | 12° 7 | 13°32 | 27°40 | 29° 4 | 15° 6 | 11°58 | 10°53 | 5°43 | 28°28 | S 10 |
| S 11 | 13 17 11 | 21°10'22 | 15°22 | 25°42 | 5° 1 | 21°50 | 12° 8 | 13°32 | 27°44 | 29° 5 | 15° 6 | 11°49 | 10°50 | 5°50 | 28°32 | S 11 |
| M12 | 13 21 7 | 22° 9'01 | OM 8 | 26°15 | 5°58 | 21°27 | 12° 9 | 13°32 | 27°47 | 29° 7 | 15° 6 | 11°39 | 10°47 | 5°57 | 28°36 | M12 |
| T 13 | 13 25 4 | 23° 7'38 | 14°37 | 26°52 | 6°55 | 21° 5 | 12°10 | 13°31 | 27°50 | 29° 8 | 15° 7 | 11°28 | 10°44 | 6° 3 | 28°39 | T 13 |
| W14 | 13 29 1 | 24° 6'14 | 28°42 | 27°33 | 7°52 | 20°42 | 12°11 | 13°31 | 27°54 | 29°10 | 15° 7 | 11°18 | 10°40 | 6°10 | 28°43 | W14 |
| T 15 | 13 32 57 | 25° 4'47 | 12 × 21 | 28°17 | 8°50 | 20°19 | 12°12 | 13°D31 | 27°57 | 29°11 | 15° 8 | 11° 9 | 10°37 | 6°17 | 28°47 | T 15 |
| F 16 | 13 36 54 | 26° 3'19 | 2 <u>5</u> °32 | 29° 5 | 9°49 | 19°56 | 12°13 | 13°31 | 28° 1 | 29°13 | 15° 8 | 11° 4 | 10°34 | 6°23 | 28°51 | F 16 |
| S 17 | 13 40 50 | 27° 1'50 | 8 궁 17 | 29°56 | 10°48 | 19°34 | 12°15 | 13°31 | 28° 4 | 29°14 | 15° 8 | 11° 0 | 10°31 | 6°30 | 28°55 | S 17 |
| S 18 | 13 44 47 | 28° 0'18 | 20°40 | 0 Υ 51 | 11°47 | 19°11 | 12°17 | 13°32 | 28° 8 | 29°16 | 15° 9 | 10°59 | 10°28 | 6°36 | 28°59 | S 18 |
| M19 | 13 48 43 | 28°58'45 | 2≈46 | 1°49 | 12°46 | 18°49 | 12°19 | 13°32 | 28°11 | 29°17 | 15° 9 | 10°D59 | 10°25 | 6°43 | 29° 3 | M19 |
| T 20 | 13 52 40 | 29°57'11 | 14°41 | 2°49 | 13°46 | 18°27 | 12°21 | 13°33 | 28°15 | 29°18 | 15°10 | 10°R59 | 10°21 | 6°50 | 29° 7 | T 20 |
| W21 | 13 56 36 | 0 8 55'34 | 26°29 | 3°52 | 14°47 | 18° 5 | 12°23 | 13°33 | 28°18 | 29°20 | 15°10 | 10°58 | 10°18 | 6°56 | 29°11 | W21 |
| T 22 | 14 0 33 | 1°53'57 | 8 米 16 | 4°58 | 15°47 | 17°44 | 12°26 | 13°34 | 28°21 | 29°21 | 15°11 | 10°55 | 10°15 | 7° 3 | 29°14 | T 22 |
| F 23 | 14 4 30 | 2°52'17 | 20° 7 | 6° 7 | 16°48 | 17°23 | 12°28 | 13°35 | 28°25 | 29°22 | 15°12 | 10°50 | 10°12 | 7°10 | 29°18 | F 23 |
| S 24 | 14 8 26 | 3°50'36 | 2 ℃ 5 | 7°18 | 17°49 | 17° 2 | 12°31 | 13°36 | 28°28 | 29°23 | 15°12 | 10°42 | 10° 9 | 7°16 | 29°22 | S 24 |
| S 25 | 14 12 23 | 4°48'53 | 14°14 | 8°31 | 18°51 | 16°42 | 12°34 | 13°37 | 28°32 | 29°25 | 15°13 | 10°31 | 10° 5 | 7°23 | 29°26 | S 25 |
| M26 | 14 16 19 | 5°47'08 | 26°34 | 9°47 | 19°53 | 16°22 | 12°37 | 13°38 | 28°35 | 29°26 | 15°14 | 10°19 | 10° 2 | 7°30 | 29°30 | M26 |
| T 27 | 14 20 16 | 6°45'22 | 9 8 8 | 11° 5 | 20°55 | 16° 3 | 12°41 | 13°39 | 28°39 | 29°27 | 15°14 | 10° 5 | 9°59 | 7°36 | 29°34 | T 27 |
| W28 | 14 24 12 | 7°43'34 | 21°54 | 12°26 | 21°57 | 15°44 | 12°44 | 13°41 | 28°42 | 29°28 | 15°15 | 9°52 | 9°56 | 7°43 | 29°38 | W28 |
| T 29 | 14 28 9 | 8°41'44 | 4 Ⅱ 53 | 13°48 | 23° 0 | 15°26 | 12°48 | 13°42 | 28°45 | 29°29 | 15°16 | 9°40 | 9°53 | 7°50 | 29°42 | T 29 |
| F 30 | 14 32 5 | 9 8 39'53 | 18耳 3 | 15 Y 13 | 24) 3 | 15 ♀ 9 | 12 Ω 52 | 13 Ω 44 | 28 Y 49 | 29≈30 | 159516 | 9 Ω 31 | 9 Ω 50 | 7 ∺ 56 | 29 Ƴ 45 | F 30 |

Delta T = 21.85 sec

MAY 1683 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)ұ(| ¥ | Р | ß | Ω | ţ | ę, | Day |
|------|----------|----------|-----------------|----------------|---------------|----------------|----------------|----------------|----------------|-------|--------|---------------|---------------|----------------|----------------|------|
| S 1 | 14 36 2 | 10838'00 | 19925 | 16 Y 39 | 25 ¥ 6 | 14°R52 | 12 N 56 | 13 Ω 45 | 28 Y 52 | 29≈31 | 15917 | 9°R25 | 9 Ω 46 | 8 ∺ 3 | 29 Y 49 | S 1 |
| S 2 | 14 39 58 | 11°36'04 | 14°57 | 18° 8 | 26° 9 | 14 ₽ 36 | 13° 0 | 13°47 | 28°56 | 29°32 | 15°18 | 9 Ω 21 | 9°43 | 8°10 | 29°53 | S 2 |
| M 3 | 14 43 55 | 12°34'07 | 28°40 | 19°39 | 27°13 | 14°20 | 13° 4 | 13°49 | 28°59 | 29°33 | 15°19 | 9°20 | 9°40 | 8°16 | 29°57 | M 3 |
| T 4 | 14 47 52 | 13°32'08 | 12 Ω 34 | 21°12 | 28°16 | 14° 5 | 13° 9 | 13°51 | 29° 2 | 29°34 | 15°20 | 9°19 | 9°37 | 8°23 | 0 8 1 | T 4 |
| W 5 | 14 51 48 | 14°30'07 | 26°39 | 22°47 | 29°20 | 13°51 | 13°14 | 13°53 | 29° 6 | 29°35 | 15°21 | 9°19 | 9°34 | 8°30 | 0° 5 | W 5 |
| T 6 | 14 55 45 | 15°28'04 | 10 m 55 | 24°24 | 0 Υ 24 | 13°38 | 13°19 | 13°55 | 29° 9 | 29°36 | 15°21 | 9°18 | 9°31 | 8°36 | 0° 8 | T 6 |
| F 7 | 14 59 41 | 16°25'59 | 25°20 | 26° 3 | 1°29 | 13°25 | 13°24 | 13°58 | 29°12 | 29°37 | 15°22 | 9°14 | 9°27 | 8°43 | 0°12 | F 7 |
| S 8 | 15 3 38 | 17°23'52 | 9 ≏ 51 | 27°44 | 2°33 | 13°14 | 13°29 | 14° 0 | 29°16 | 29°38 | 15°23 | 9° 7 | 9°24 | 8°50 | 0°16 | S 8 |
| S 9 | 15 7 34 | 18°21'44 | 24°21 | 29°27 | 3°38 | 13° 2 | 13°34 | 14° 3 | 29°19 | 29°38 | 15°24 | 8°58 | 9°21 | 8°56 | 0°20 | S 9 |
| M10 | 15 11 31 | 19°19'34 | 8 M .45 | 1812 | 4°43 | 12°52 | 13°40 | 14° 5 | 29°22 | 29°39 | 15°25 | 8°47 | 9°18 | 9° 3 | 0°23 | M10 |
| T 11 | 15 15 27 | 20°17'22 | 22°56 | 2°59 | 5°48 | 12°43 | 13°45 | 14° 8 | 29°26 | 29°40 | 15°26 | 8°36 | 9°15 | 9°10 | 0°27 | T 11 |
| W12 | 15 19 24 | 21°15'09 | 6 ₹ 49 | 4°49 | 6°54 | 12°34 | 13°51 | 14°11 | 29°29 | 29°40 | 15°27 | 8°25 | 9°11 | 9°16 | 0°31 | W12 |
| T 13 | 15 23 21 | 22°12'55 | 20°20 | 6°40 | 7°59 | 12°26 | 13°57 | 14°14 | 29°32 | 29°41 | 15°28 | 8°16 | 9° 8 | 9°23 | 0°35 | T 13 |
| F 14 | 15 27 17 | 23°10'39 | 3 云 28 | 8°33 | 9° 5 | 12°19 | 14° 3 | 14°17 | 29°35 | 29°42 | 15°29 | 8° 9 | 9° 5 | 9°30 | 0°38 | F 14 |
| S 15 | 15 31 14 | 24° 8'23 | 16°12 | 10°28 | 10°11 | 12°13 | 14° 9 | 14°20 | 29°39 | 29°42 | 15°30 | 8° 5 | 9° 2 | 9°36 | 0°42 | S 15 |
| S 16 | 15 35 10 | 25° 6'05 | 28°36 | 12°25 | 11°17 | 12° 7 | 14°15 | 14°23 | 29°42 | 29°43 | 15°31 | 8° 3 | 8°59 | 9°43 | 0°45 | S 16 |
| M17 | 15 39 7 | 26° 3'46 | 10≈44 | 14°24 | 12°23 | 12° 3 | 14°22 | 14°26 | 29°45 | 29°43 | 15°32 | 8°D 3 | 8°56 | 9°50 | 0°49 | M17 |
| T 18 | 15 43 3 | 27° 1'26 | 22°40 | 16°25 | 13°29 | 11°59 | 14°29 | 14°29 | 29°48 | 29°44 | 15°34 | 8°R 3 | 8°52 | 9°56 | 0°53 | T 18 |
| W19 | 15 47 0 | 27°59'04 | 4) (31 | 18°28 | 14°36 | 11°56 | 14°35 | 14°33 | 29°51 | 29°44 | 15°35 | 8° 3 | 8°49 | 10° 3 | 0°56 | W19 |
| T 20 | 15 50 56 | 28°56'42 | 16°20 | 20°32 | 15°42 | 11°54 | 14°42 | 14°36 | 29°54 | 29°45 | 15°36 | 8° 1 | 8°46 | 10°10 | 1° 0 | T 20 |
| F 21 | 15 54 53 | 29°54'19 | 28°14 | 22°38 | 16°49 | 11°52 | 14°49 | 14°40 | 29°58 | 29°45 | 15°37 | 7°58 | 8°43 | 10°16 | 1° 3 | F 21 |
| S 22 | 15 58 50 | 0耳51'55 | 10 ℃ 17 | 24°46 | 17°56 | 11°D51 | 14°56 | 14°44 | 0 8 1 | 29°46 | 15°38 | 7°52 | 8°40 | 10°23 | 1° 7 | S 22 |
| S 23 | 16 2 46 | 1°49'30 | 22°32 | 26°55 | 19° 3 | 11°52 | 15° 4 | 14°47 | 0° 4 | 29°46 | 15°39 | 7°43 | 8°36 | 10°30 | 1°10 | S 23 |
| M24 | 16 6 43 | 2°47'04 | 5 8 3 | 29° 4 | 20°10 | 11°52 | 15°11 | 14°51 | 0° 7 | 29°46 | 15°40 | 7°33 | 8°33 | 10°36 | 1°14 | M24 |
| T 25 | 16 10 39 | 3°44'37 | 1 <u>7</u> °51 | 1 I I15 | 21°17 | 11°54 | 15°19 | 14°55 | 0°10 | 29°47 | 15°42 | 7°22 | 8°30 | 10°43 | 1°17 | T 25 |
| W26 | 16 14 36 | 4°42'09 | 0耳55 | 3°27 | 22°24 | 11°57 | 15°26 | 14°59 | 0°13 | 29°47 | 15°43 | 7°12 | 8°27 | 10°50 | 1°21 | W26 |
| T 27 | 16 18 32 | 5°39'40 | 14°15 | 5°39 | 23°32 | 12° 0 | 15°34 | 15° 4 | 0°16 | 29°47 | 15°44 | 7° 2 | 8°24 | 10°56 | 1°24 | T 27 |
| F 28 | 16 22 29 | 6°37'10 | 27°48 | 7°51 | 24°40 | 12° 4 | 15°42 | 15° 8 | 0°19 | 29°47 | 15°45 | 6°55 | 8°21 | 11° 3 | 1°27 | F 28 |
| S 29 | 16 26 25 | 7°34'39 | 119933 | 10° 3 | 25°47 | 12° 8 | 15°50 | 15°12 | 0°22 | 29°47 | 15°47 | 6°50 | 8°17 | 11°10 | 1°31 | S 29 |
| S 30 | 16 30 22 | 8°32'07 | 25°26 | 12°14 | 26°55 | 12°14 | 15°58 | 15°16 | 0°25 | 29°47 | 15°48 | 6°47 | 8°14 | 11°16 | 1°34 | S 30 |
| M31 | 16 34 19 | 9∏29'33 | 9 Ω 25 | 14∏25 | 28 ° 3 | 12 ≏ 20 | 16 Ω 7 | 15 Ω 21 | 0 8 27 | 29≈47 | 159649 | 6°D47 | 8 Ω 11 | 11 米 23 | 1 8 37 | M31 |

Delta T = 21.81 sec

Greg. Calendar

JUNE 1683 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | φ | ♂ [™] | 4 | ħ |)f(| ¥ | Р | B | C | Ç | ę, | Day |
|------|----------|-------------------|----------------|-----------------|----------------|----------------|----------------|----------------|---------------|--------|-------|---------------|---------------|----------------|---------------|------|
| T 1 | 16 38 15 | 10 Ⅲ 26′58 | 23 N 29 | 16耳35 | 29 Y 11 | 12 ≏ 27 | 16 Ω 15 | 15 Ω 26 | 0 8 30 | 29≈47 | 15951 | 6 Ω 47 | 8 N 8 | 11 ∺ 30 | 1841 | T 1 |
| W 2 | 16 42 12 | 11°24'22 | 7 ™ 37 | 18°44 | 0819 | 12°34 | 16°23 | 15°30 | 0°33 | 29°R47 | 15°52 | 6°R48 | 8° 5 | 11°36 | 1°44 | W 2 |
| T 3 | 16 46 8 | 12°21'45 | 21°47 | 20°51 | 1°27 | 12°43 | 16°32 | 15°35 | 0°36 | 29°47 | 15°53 | 6°48 | 8° 2 | 11°43 | 1°47 | T 3 |
| F 4 | 16 50 5 | 13°19'07 | 5 ≏ 58 | 22°57 | 2°36 | 12°52 | 16°41 | 15°40 | 0°39 | 29°47 | 15°55 | 6°45 | 7°58 | 11°50 | 1°50 | F 4 |
| S 5 | 16 54 1 | 14°16'28 | 20° 7 | 25° 1 | 3°44 | 13° 1 | 16°50 | 15°45 | 0°41 | 29°47 | 15°56 | 6°41 | 7°55 | 11°56 | 1°53 | S 5 |
| S 6 | 16 57 58 | 15°13'47 | 4 M .12 | 27° 3 | 4°52 | 13°11 | 16°59 | 15°49 | 0°44 | 29°47 | 15°57 | 6°35 | 7°52 | 12° 3 | 1°56 | S 6 |
| M 7 | 17 1 54 | 16°11'06 | 18° 9 | 29° 3 | 6° 1 | 13°22 | 17° 8 | 15°54 | 0°47 | 29°47 | 15°59 | 6°28 | 7°49 | 12°10 | 1°59 | M 7 |
| T 8 | 17 5 51 | 17° 8'24 | 1 ₹ 55 | 199 1 | 7°10 | 13°34 | 17°17 | 16° 0 | 0°49 | 29°47 | 16° 0 | 6°19 | 7°46 | 12°16 | 2° 2 | T 8 |
| W 9 | 17 9 48 | 18° 5'41 | 15°25 | 2°57 | 8°18 | 13°46 | 17°26 | 16° 5 | 0°52 | 29°47 | 16° 2 | 6°12 | 7°42 | 12°23 | 2° 5 | W 9 |
| T 10 | 17 13 44 | 19° 2'57 | 28°39 | 4°50 | 9°27 | 13°59 | 17°35 | 16°10 | 0°54 | 29°46 | 16° 3 | 6° 5 | 7°39 | 12°30 | 2° 8 | T 10 |
| F 11 | 17 17 41 | 20° 0'13 | 11 る 34 | 6°41 | 10°36 | 14°12 | 17°45 | 16°15 | 0°57 | 29°46 | 16° 5 | 6° 1 | 7°36 | 12°36 | 2°11 | F 11 |
| S 12 | 17 21 37 | 20°57'29 | 24°10 | 8°30 | 11°45 | 14°26 | 17°54 | 16°21 | 0°59 | 29°46 | 16° 6 | 5°58 | 7°33 | 12°43 | 2°14 | S 12 |
| S 13 | 17 25 34 | 21°54'44 | 6≈31 | 10°17 | 12°54 | 14°40 | 18° 4 | 16°26 | 1° 2 | 29°45 | 16° 7 | 5°D58 | 7°30 | 12°50 | 2°17 | S 13 |
| M14 | 17 29 30 | 22°51'59 | 18°37 | 12° 1 | 14° 3 | 14°55 | 18°14 | 16°32 | 1° 4 | 29°45 | 16° 9 | 5°58 | 7°27 | 12°56 | 2°20 | M14 |
| T 15 | 17 33 27 | 23°49'13 | 0 ∺ 33 | 13°43 | 15°13 | 15°11 | 18°24 | 16°37 | 1° 7 | 29°45 | 16°10 | 6° 0 | 7°23 | 13° 3 | 2°22 | T 15 |
| W16 | 17 37 24 | 24°46'27 | 12°24 | 15°22 | 16°22 | 15°27 | 18°34 | 16°43 | 1° 9 | 29°44 | 16°12 | 6° 1 | 7°20 | 13°10 | 2°25 | W16 |
| T 17 | 17 41 20 | 25°43'41 | 24°15 | 16°59 | 17°31 | 15°44 | 18°44 | 16°48 | 1°11 | 29°44 | 16°13 | 6°R 2 | 7°17 | 13°16 | 2°28 | T 17 |
| F 18 | 17 45 17 | 26°40'55 | 6 Υ 10 | 18°34 | 18°41 | 16° 1 | 18°54 | 16°54 | 1°14 | 29°43 | 16°15 | 6° 1 | 7°14 | 13°23 | 2°30 | F 18 |
| S 19 | 17 49 13 | 27°38'08 | 18°15 | 20° 6 | 19°50 | 16°19 | 19° 4 | 17° 0 | 1°16 | 29°43 | 16°16 | 5°59 | 7°11 | 13°30 | 2°33 | S 19 |
| S 20 | 17 53 10 | 28°35'22 | 0 8 34 | 21°36 | 21° 0 | 16°37 | 19°14 | 17° 6 | 1°18 | 29°42 | 16°18 | 5°56 | 7° 8 | 13°36 | 2°36 | S 20 |
| M21 | 17 57 6 | 29°32'36 | 13°10 | 23° 3 | 22°10 | 16°56 | 19°25 | 17°12 | 1°20 | 29°42 | 16°19 | 5°51 | 7° 4 | 13°43 | 2°38 | M21 |
| T 22 | 18 1 3 | 0929'49 | 26° 6 | 24°27 | 23°20 | 17°15 | 19°35 | 17°18 | 1°23 | 29°41 | 16°21 | 5°45 | 7° 1 | 13°50 | 2°41 | T 22 |
| W23 | 18 4 59 | 1°27'03 | 9∏23 | 25°50 | 24°30 | 17°35 | 19°46 | 17°24 | 1°25 | 29°40 | 16°23 | 5°40 | 6°58 | 13°56 | 2°43 | W23 |
| T 24 | 18 8 56 | 2°24'16 | 23° 0 | 27° 9 | 25°39 | 17°55 | 19°56 | 17°30 | 1°27 | 29°40 | 16°24 | 5°35 | 6°55 | 14° 3 | 2°45 | T 24 |
| F 25 | 18 12 53 | 3°21'29 | 6955 | 28°26 | 26°49 | 18°15 | 20° 7 | 17°36 | 1°29 | 29°39 | 16°26 | 5°31 | 6°52 | 14°10 | 2°48 | F 25 |
| S 26 | 18 16 49 | 4°18'43 | 21° 4 | 29°40 | 28° 0 | 18°36 | 20°18 | 17°42 | 1°31 | 29°38 | 16°27 | 5°29 | 6°48 | 14°17 | 2°50 | S 26 |
| S 27 | 18 20 46 | 5°15'56 | 5 Ω 23 | 0 Ω 52 | 29°10 | 18°58 | 20°28 | 17°49 | 1°33 | 29°37 | 16°29 | 5°D28 | 6°45 | 14°23 | 2°52 | S 27 |
| M28 | 18 24 42 | 6°13'08 | 19°47 | 2° 1 | 0П20 | 19°20 | 20°39 | 17°55 | 1°35 | 29°37 | 16°30 | 5°29 | 6°42 | 14°30 | 2°55 | M28 |
| T 29 | 18 28 39 | 7°10'21 | 4 Mp 11 | 3° 7 | 1°30 | 19°42 | 20°50 | 18° 1 | 1°37 | 29°36 | 16°32 | 5°30 | 6°39 | 14°37 | 2°57 | T 29 |
| W30 | 18 32 35 | 8 9 7'33 | 18 M 32 | 4 Ω 10 | 2 Ⅱ 40 | 20 ♀ 5 | 210 1 | 18 N 8 | 1 8 38 | 29≈35 | 16933 | 5 Ω 31 | 6 Ω 36 | 14) 43 | 2 8 59 | W30 |

Delta T = 21.76 sec

JULY 1683 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | Ŷ. | ♂ [™] | 4 | ħ |)f(| ¥ | В | ß | Ω | Ç | Ş, | Day |
|------|----------|------------------|-----------------|---------------|----------------|----------------|----------------|----------------|------|--------|--------|---------------|---------------|----------------|---------------|------|
| T 1 | 18 36 32 | 99 4'45 | 2 ≙ 47 | 5 Ω 10 | 3 II 51 | 20 <u>₽</u> 28 | 21 Ω 13 | 18 Ω 14 | 1840 | 29°R34 | 16935 | 5°R32 | 6 Ω 33 | 14 米 50 | 3 8 1 | T 1 |
| F 2 | 18 40 28 | 10° 1'56 | 16°54 | 6° 6 | 5° 1 | 20°52 | 21°24 | 18°21 | 1°42 | 29≈33 | 16°37 | 5 Ω 32 | 6°29 | 14°57 | 3° 3 | F 2 |
| S 3 | 18 44 25 | 10°59'07 | 0 M .51 | 7° 0 | 6°12 | 21°16 | 21°35 | 18°27 | 1°44 | 29°32 | 16°38 | 5°31 | 6°26 | 15° 3 | 3° 5 | S 3 |
| S 4 | 18 48 22 | 11°56'19 | 14°37 | 7°50 | 7°22 | 21°40 | 21°46 | 18°34 | 1°45 | 29°31 | 16°40 | 5°29 | 6°23 | 15°10 | 3° 7 | S 4 |
| M 5 | 18 52 18 | 12°53'30 | 28°10 | 8°37 | 8°33 | 22° 5 | 21°58 | 18°41 | 1°47 | 29°30 | 16°41 | 5°26 | 6°20 | 15°17 | 3° 9 | M 5 |
| T 6 | 18 56 15 | 13°50'41 | 11 × 30 | 9°20 | 9°44 | 22°30 | 22° 9 | 18°47 | 1°48 | 29°29 | 16°43 | 5°23 | 6°17 | 15°23 | 3°10 | T 6 |
| W 7 | 19 0 11 | 14°47'52 | 24°36 | 9°59 | 10°54 | 22°56 | 22°21 | 18°54 | 1°50 | 29°28 | 16°44 | 5°20 | 6°14 | 15°30 | 3°12 | W 7 |
| T 8 | 19 4 8 | 15°45'04 | 7 云 28 | 10°34 | 12° 5 | 23°22 | 22°32 | 19° 1 | 1°51 | 29°27 | 16°46 | 5°17 | 6°10 | 15°37 | 3°14 | T 8 |
| F 9 | 19 8 4 | 16°42'15 | 20° 5 | 11° 6 | 13°16 | 23°48 | 22°44 | 19°8 | 1°53 | 29°26 | 16°48 | 5°16 | 6° 7 | 15°43 | 3°16 | F 9 |
| S 10 | 19 12 1 | 17°39'27 | 2≈29 | 11°33 | 14°27 | 24°14 | 22°56 | 19°15 | 1°54 | 29°25 | 16°49 | 5°D15 | 6° 4 | 15°50 | 3°17 | S 10 |
| S 11 | 19 15 57 | 18°36'39 | 14°41 | 11°56 | 15°38 | 24°41 | 23° 7 | 19°22 | 1°56 | 29°24 | 16°51 | 5°15 | 6° 1 | 15°57 | 3°19 | S 11 |
| M12 | 19 19 54 | 19°33'52 | 26°42 | 12°14 | 16°49 | 25° 8 | 23°19 | 19°29 | 1°57 | 29°23 | 16°52 | 5°16 | 5°58 | 16° 3 | 3°20 | M12 |
| T 13 | 19 23 51 | 20°31'06 | 8 ∺ 37 | 12°28 | 18° 0 | 25°36 | 23°31 | 19°36 | 1°58 | 29°22 | 16°54 | 5°18 | 5°54 | 16°10 | 3°22 | T 13 |
| W14 | 19 27 47 | 21°28'19 | 20°27 | 12°37 | 19°11 | 26° 4 | 23°43 | 19°43 | 1°59 | 29°20 | 16°56 | 5°19 | 5°51 | 16°17 | 3°23 | W14 |
| T 15 | 19 31 44 | 22°25'34 | 2 Υ 18 | 12°R41 | 20°22 | 26°32 | 23°55 | 19°50 | 2° 0 | 29°19 | 16°57 | 5°20 | 5°48 | 16°23 | 3°24 | T 15 |
| F 16 | 19 35 40 | 23°22'49 | 14°13 | 12°41 | 21°34 | 27° 0 | 24° 7 | 19°57 | 2° 2 | 29°18 | 16°59 | 5°21 | 5°45 | 16°30 | 3°26 | F 16 |
| S 17 | 19 39 37 | 24°20'06 | 26°17 | 12°35 | 22°45 | 27°29 | 24°19 | 20° 4 | 2° 3 | 29°17 | 17° 0 | 5°R21 | 5°42 | 16°37 | 3°27 | S 17 |
| S 18 | 19 43 33 | 25°17'23 | 8 8 36 | 12°25 | 23°56 | 27°58 | 24°31 | 20°11 | 2° 4 | 29°15 | 17° 2 | 5°20 | 5°39 | 16°43 | 3°28 | S 18 |
| M19 | 19 47 30 | 26°14'41 | 21°11 | 12° 9 | 25° 8 | 28°28 | 24°43 | 20°18 | 2° 5 | 29°14 | 17° 3 | 5°20 | 5°35 | 16°50 | 3°29 | M19 |
| T 20 | 19 51 26 | 27°11'59 | 4 II 9 | 11°49 | 26°19 | 28°57 | 24°56 | 20°26 | 2° 6 | 29°13 | 17° 5 | 5°19 | 5°32 | 16°57 | 3°30 | T 20 |
| W21 | 19 55 23 | 28° 9'19 | 17°30 | 11°25 | 27°31 | 29°27 | 25° 8 | 20°33 | 2° 6 | 29°11 | 17° 7 | 5°18 | 5°29 | 17° 3 | 3°31 | W21 |
| T 22 | 19 59 20 | 29° 6'40 | 19915 | 10°55 | 28°43 | 29°57 | 25°20 | 20°40 | 2° 7 | 29°10 | 17° 8 | 5°17 | 5°26 | 17°10 | 3°32 | T 22 |
| F 23 | 20 3 16 | 0 ん 4'02 | 15°24 | 10°22 | 29°54 | 0 M 28 | 25°32 | 20°47 | 2° 8 | 29° 9 | 17°10 | 5°17 | 5°23 | 17°17 | 3°33 | F 23 |
| S 24 | 20 7 13 | 1° 1'24 | 29°52 | 9°46 | 195 6 | 0°59 | 25°45 | 20°55 | 2° 9 | 29° 7 | 17°11 | 5°D16 | 5°20 | 17°23 | 3°34 | S 24 |
| S 25 | 20 11 9 | 1°58'47 | 14 Q 33 | 9° 6 | 2°18 | 1°30 | 25°57 | 21° 2 | 2° 9 | 29° 6 | 17°13 | 5°17 | 5°16 | 17°30 | 3°35 | S 25 |
| M26 | 20 15 6 | 2°56'11 | 29°22 | 8°24 | 3°30 | 2° 1 | 26°10 | 21°10 | 2°10 | 29° 5 | 17°14 | 5°17 | 5°13 | 17°37 | 3°36 | M26 |
| T 27 | 20 19 2 | 3°53'35 | 14 My 11 | 7°40 | 4°42 | 2°33 | 26°22 | 21°17 | 2°11 | 29° 3 | 17°16 | 5°17 | 5°10 | 17°44 | 3°36 | T 27 |
| W28 | 20 22 59 | 4°51'01 | 28°53 | 6°54 | 5°54 | 3° 4 | 26°35 | 21°24 | 2°11 | 29° 2 | 17°17 | 5°R17 | 5° 7 | 17°50 | 3°37 | W28 |
| T 29 | 20 26 55 | 5°48'26 | 13 ≏ 23 | 6° 9 | 7° 6 | 3°36 | 26°47 | 21°32 | 2°12 | 29° 0 | 17°19 | 5°17 | 5° 4 | 17°57 | 3°38 | T 29 |
| F 30 | 20 30 52 | 6°45'53 | 27°36 | 5°24 | 8°18 | 4° 9 | 27° 0 | 21°39 | 2°12 | 28°59 | 17°20 | 5°17 | 5° 0 | 18° 4 | 3°38 | F 30 |
| S 31 | 20 34 49 | 7 Ω 43'20 | 11 M 30 | $4\Omega 40$ | 9930 | 4 M .41 | 27 Ω 12 | 21 Ω 47 | 2812 | 28≈57 | 179522 | 5°D17 | 4Ω 57 | 18 ∺ 10 | 3 8 39 | S 31 |

Delta T = 21.72 sec Greg. Calendar

AUGUST 1683 GC 00:00 UT

| Day | Sid.t | 0 | 9 | ğ | Q- | ঠ | 4 | ħ |)f(| ¥ | Р | Ç | ಬ | Ç | ç | Day |
|------|----------|------------------|----------------|----------------|----------------|----------------|-----------------|----------------|---------------|--------|--------|---------------|---------------|----------------|---------------|------|
| S 1 | 20 38 45 | 8 N 40'48 | 25 M 6 | 3°R59 | 109542 | 5 M .14 | 27 \O 25 | 21 Ω 54 | 2 8 13 | 28°R56 | 179523 | 5 Ω 17 | 4⋒54 | 18) 17 | 3 8 39 | S 1 |
| M 2 | 20 42 42 | 9°38'16 | 8 ₹ 24 | 3 Ω 20 | 11°54 | 5°47 | 27°38 | 22° 2 | 2°13 | 28≈54 | 17°25 | 5°17 | 4°51 | 18°24 | 3°39 | M 2 |
| T 3 | 20 46 38 | 10°35'46 | 21°24 | 2°46 | 13° 6 | 6°20 | 27°51 | 22° 9 | 2°13 | 28°53 | 17°26 | 5°18 | 4°48 | 18°30 | 3°40 | T 3 |
| W 4 | 20 50 35 | 11°33'16 | 4 る 9 | 2°16 | 14°19 | 6°54 | 28° 3 | 22°17 | 2°14 | 28°51 | 17°28 | 5°18 | 4°45 | 18°37 | 3°40 | W 4 |
| T 5 | 20 54 31 | 12°30'47 | 16°41 | 1°51 | 15°31 | 7°28 | 28°16 | 22°24 | 2°14 | 28°50 | 17°29 | 5°19 | 4°41 | 18°44 | 3°40 | T 5 |
| F 6 | 20 58 28 | 13°28'20 | 29° 1 | 1°31 | 16°43 | 8° 2 | 28°29 | 22°32 | 2°14 | 28°48 | 17°31 | 5°19 | 4°38 | 18°50 | 3°40 | F 6 |
| S 7 | 21 2 24 | 14°25'53 | 11≈12 | 1°18 | 17°56 | 8°36 | 28°42 | 22°40 | 2°R14 | 28°46 | 17°32 | 5°R19 | 4°35 | 18°57 | 3°R40 | S 7 |
| S 8 | 21 6 21 | 15°23'27 | 23°14 | 1°D12 | 19°8 | 9°10 | 28°54 | 22°47 | 2°14 | 28°45 | 17°34 | 5°19 | 4°32 | 19° 4 | 3°40 | S 8 |
| M 9 | 21 10 18 | 16°21'03 | 5 米 9 | 1°12 | 20°21 | 9°44 | 29° 7 | 22°55 | 2°14 | 28°43 | 17°35 | 5°18 | 4°29 | 19°10 | 3°40 | M 9 |
| T 10 | 21 14 14 | 17°18'40 | 17° 1 | 1°20 | 21°34 | 10°19 | 29°20 | 23° 2 | 2°14 | 28°42 | 17°37 | 5°16 | 4°26 | 19°17 | 3°40 | T 10 |
| W11 | 21 18 11 | 18°16'18 | 28°51 | 1°34 | 22°46 | 10°54 | 29°33 | 23°10 | 2°13 | 28°40 | 17°38 | 5°14 | 4°22 | 19°24 | 3°40 | W11 |
| T 12 | 21 22 7 | 19°13'58 | 10 Y 42 | 1°56 | 23°59 | 11°29 | 29°46 | 23°18 | 2°13 | 28°38 | 17°39 | 5°12 | 4°19 | 19°30 | 3°40 | T 12 |
| F 13 | 21 26 4 | 20°11'39 | 22°37 | 2°25 | 25°12 | 12° 5 | 29°59 | 23°25 | 2°13 | 28°37 | 17°41 | 5°11 | 4°16 | 19°37 | 3°39 | F 13 |
| S 14 | 21 30 0 | 21° 9'22 | 4841 | 3° 2 | 26°25 | 12°40 | 0 m) 12 | 23°33 | 2°13 | 28°35 | 17°42 | 5° 9 | 4°13 | 19°44 | 3°39 | S 14 |
| S 15 | 21 33 57 | 22° 7'07 | 16°57 | 3°46 | 27°38 | 13°16 | 0°25 | 23°41 | 2°12 | 28°34 | 17°43 | 5°D 8 | 4°10 | 19°50 | 3°39 | S 15 |
| M16 | 21 37 53 | 23° 4'53 | 29°30 | 4°37 | 28°51 | 13°52 | 0°38 | 23°48 | 2°12 | 28°32 | 17°45 | 5° 9 | 4° 6 | 19°57 | 3°38 | M16 |
| T 17 | 21 41 50 | 24° 2'41 | 12 Ⅲ 23 | 5°35 | 0 Ω 4 | 14°28 | 0°51 | 23°56 | 2°11 | 28°30 | 17°46 | 5° 9 | 4° 3 | 20° 4 | 3°38 | T 17 |
| W18 | 21 45 47 | 25° 0'30 | 25°39 | 6°39 | 1°17 | 15° 4 | 1° 4 | 24° 4 | 2°11 | 28°29 | 17°47 | 5°11 | 4° 0 | 20°11 | 3°37 | W18 |
| T 19 | 21 49 43 | 25°58'22 | 9923 | 7°50 | 2°30 | 15°41 | 1°17 | 24°11 | 2°10 | 28°27 | 17°49 | 5°12 | 3°57 | 20°17 | 3°36 | T 19 |
| F 20 | 21 53 40 | 26°56'15 | 23°32 | 9° 6 | 3°43 | 16°17 | 1°30 | 24°19 | 2°10 | 28°25 | 17°50 | 5°13 | 3°54 | 20°24 | 3°36 | F 20 |
| S 21 | 21 57 36 | 27°54'10 | 8 N 7 | 10°29 | 4°56 | 16°54 | 1°43 | 24°27 | 2° 9 | 28°24 | 17°51 | 5°R13 | 3°51 | 20°31 | 3°35 | S 21 |
| S 22 | 22 1 33 | 28°52'06 | 23° 1 | 11°56 | 6° 9 | 17°31 | 1°56 | 24°34 | 2° 9 | 28°22 | 17°53 | 5°12 | 3°47 | 20°37 | 3°34 | S 22 |
| M23 | 22 5 29 | 29°50'04 | 8 m y 8 | 13°29 | 7°23 | 18° 8 | 2° 9 | 24°42 | 2° 8 | 28°20 | 17°54 | 5°10 | 3°44 | 20°44 | 3°33 | M23 |
| T 24 | 22 9 26 | 0 m 48'04 | 23°17 | 15° 5 | 8°36 | 18°46 | 2°22 | 24°49 | 2° 7 | 28°19 | 17°55 | 5° 8 | 3°41 | 20°51 | 3°32 | T 24 |
| W25 | 22 13 22 | 1°46'05 | 8 亞 20 | 16°46 | 9°49 | 19°23 | 2°35 | 24°57 | 2° 6 | 28°17 | 17°56 | 5° 4 | 3°38 | 20°57 | 3°31 | W25 |
| T 26 | 22 17 19 | 2°44'07 | 23° 8 | 18°30 | 11° 3 | 20° 1 | 2°48 | 25° 5 | 2° 5 | 28°15 | 17°58 | 5° 0 | 3°35 | 21° 4 | 3°30 | T 26 |
| F 27 | 22 21 16 | 3°42'11 | 7 M 34 | 20°17 | 12°16 | 20°39 | 3° 1 | 25°12 | 2° 4 | 28°14 | 17°59 | 4°57 | 3°31 | 21°11 | 3°29 | F 27 |
| S 28 | 22 25 12 | 4°40'16 | 21°36 | 22° 6 | 13°30 | 21°17 | 3°14 | 25°20 | 2° 3 | 28°12 | 18° 0 | 4°55 | 3°28 | 21°17 | 3°28 | S 28 |
| S 29 | 22 29 9 | 5°38'22 | 5 ₹ 12 | 23°57 | 14°43 | 21°55 | 3°27 | 25°27 | 2° 2 | 28°11 | 18° 1 | 4°D55 | 3°25 | 21°24 | 3°27 | S 29 |
| M30 | 22 33 5 | 6°36'30 | 18°23 | 25°50 | 15°57 | 22°33 | 3°40 | 25°35 | 2° 1 | 28° 9 | 18° 2 | 4°55 | 3°22 | 21°31 | 3°26 | M30 |
| T 31 | 22 37 2 | 7 m 34'40 | 1 ਰ 13 | 27 Ω 45 | 17 Ω 11 | 23 M 12 | 3 m 53 | 25 Ω 43 | 2 8 0 | 28≈ 7 | 1895 3 | 4 Ω 57 | 3 Ω 19 | 21) 37 | 3 8 24 | T 31 |

Delta T = 21.67 sec

SEPTEMBER 1683 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ [™] | 4 | ħ |)Å(| ¥ | Р | V | v | Ç | Q K | Day |
|------|----------|------------------|-----------------|----------------|----------------|----------------|-----------------|----------------|---------------|---------------|--------|---------------|---------------|----------------|---------------|------|
| W 1 | 22 40 58 | 8 mg 32'51 | 13 る 45 | 29 Ω 40 | 18 Ω 24 | 23M50 | 4M) 6 | 25 Ω 50 | 1°R59 | 28°R 6 | 1895 4 | 4 Ω 58 | 3 Ω 16 | 21) 44 | 3°R23 | W 1 |
| T 2 | 22 44 55 | 9°31'03 | 26° 3 | 1 M 35 | 19°38 | 24°29 | 4°19 | 25°58 | 1 8 58 | 28 ≈ 4 | 18° 5 | 5° 0 | 3°12 | 21°51 | 3 8 22 | T 2 |
| F 3 | 22 48 51 | 10°29'17 | 8≈10 | 3°31 | 20°52 | 25° 8 | 4°32 | 26° 5 | 1°57 | 28° 3 | 18° 7 | 5°R 0 | 3° 9 | 21°58 | 3°20 | F 3 |
| S 4 | 22 52 48 | 11°27'33 | 20° 9 | 5°27 | 22° 6 | 25°47 | 4°45 | 26°13 | 1°55 | 28° 1 | 18° 8 | 4°59 | 3° 6 | 22° 4 | 3°19 | S 4 |
| S 5 | 22 56 45 | 12°25'50 | 2) 3 | 7°22 | 23°20 | 26°26 | 4°58 | 26°20 | 1°54 | 27°59 | 18° 9 | 4°56 | 3° 3 | 22°11 | 3°17 | S 5 |
| M 6 | 23 0 41 | 13°24'09 | 13°55 | 9°17 | 24°33 | 27° 6 | 5°11 | 26°27 | 1°53 | 27°58 | 18°10 | 4°51 | 3° 0 | 22°18 | 3°16 | M 6 |
| T 7 | 23 438 | 14°22'30 | 25°45 | 11°12 | 25°47 | 27°45 | 5°24 | 26°35 | 1°51 | 27°56 | 18°11 | 4°45 | 2°57 | 22°24 | 3°14 | T 7 |
| W 8 | 23 8 34 | 15°20'53 | 7 Ƴ 37 | 13° 6 | 27° 1 | 28°25 | 5°37 | 26°42 | 1°50 | 27°55 | 18°12 | 4°37 | 2°53 | 22°31 | 3°12 | W 8 |
| T 9 | 23 12 31 | 16°19'18 | 19°31 | 14°59 | 28°15 | 29° 5 | 5°50 | 26°50 | 1°48 | 27°53 | 18°13 | 4°29 | 2°50 | 22°38 | 3°10 | T 9 |
| F 10 | 23 16 27 | 17°17'44 | 1829 | 16°51 | 29°29 | 29°45 | 6° 3 | 26°57 | 1°47 | 27°52 | 18°13 | 4°22 | 2°47 | 22°44 | 3° 9 | F 10 |
| S 11 | 23 20 24 | 18°16'13 | 13°36 | 18°43 | 0 M)44 | 0 ≯ 25 | 6°16 | 27° 4 | 1°45 | 27°50 | 18°14 | 4°16 | 2°44 | 22°51 | 3° 7 | S 11 |
| S 12 | 23 24 20 | 19°14'44 | 25°52 | 20°33 | 1°58 | 1° 5 | 6°29 | 27°12 | 1°44 | 27°49 | 18°15 | 4°11 | 2°41 | 22°58 | 3° 5 | S 12 |
| M13 | 23 28 17 | 20°13'17 | 8 Ⅲ 23 | 22°23 | 3°12 | 1°45 | 6°42 | 27°19 | 1°42 | 27°47 | 18°16 | 4° 8 | 2°37 | 23° 4 | 3° 3 | M13 |
| T 14 | 23 32 13 | 21°11'53 | 21°11 | 24°12 | 4°26 | 2°26 | 6°54 | 27°26 | 1°40 | 27°46 | 18°17 | 4°D 8 | 2°34 | 23°11 | 3° 1 | T 14 |
| W15 | 23 36 10 | 22°10'31 | 49520 | 25°59 | 5°40 | 3° 6 | 7° 7 | 27°33 | 1°39 | 27°44 | 18°18 | 4° 8 | 2°31 | 23°18 | 2°59 | W15 |
| T 16 | 23 40 7 | 23° 9'11 | 17°54 | 27°46 | 6°55 | 3°47 | 7°20 | 27°41 | 1°37 | 27°43 | 18°19 | 4° 9 | 2°28 | 23°25 | 2°57 | T 16 |
| F 17 | 23 44 3 | 24° 7'53 | 1 N 55 | 29°31 | 8° 9 | 4°28 | 7°33 | 27°48 | 1°35 | 27°41 | 18°19 | 4°R10 | 2°25 | 23°31 | 2°55 | F 17 |
| S 18 | 23 48 0 | 25° 6'37 | 16°23 | 1 ≏ 16 | 9°23 | 5° 9 | 7°46 | 27°55 | 1°33 | 27°40 | 18°20 | 4° 9 | 2°22 | 23°38 | 2°53 | S 18 |
| S 19 | 23 51 56 | 26° 5'24 | 1 m) 14 | 3° 0 | 10°38 | 5°50 | 7°58 | 28° 2 | 1°31 | 27°38 | 18°21 | 4° 7 | 2°18 | 23°45 | 2°50 | S 19 |
| M20 | 23 55 53 | 27° 4'12 | 16°23 | 4°42 | 11°52 | 6°31 | 8°11 | 28° 9 | 1°30 | 27°37 | 18°22 | 4° 2 | 2°15 | 23°51 | 2°48 | M20 |
| T 21 | 23 59 49 | 28° 3'03 | 1 ≏ 40 | 6°24 | 13° 7 | 7°12 | 8°24 | 28°16 | 1°28 | 27°36 | 18°22 | 3°55 | 2°12 | 23°58 | 2°46 | T 21 |
| W22 | 0 3 46 | 29° 1'56 | 16°55 | 8° 5 | 14°21 | 7°54 | 8°36 | 28°23 | 1°26 | 27°34 | 18°23 | 3°47 | 2° 9 | 24° 5 | 2°44 | W22 |
| T 23 | 0 7 42 | 0 ₾ 0'50 | 1 M 57 | 9°44 | 15°36 | 8°35 | 8°49 | 28°30 | 1°24 | 27°33 | 18°24 | 3°38 | 2° 6 | 24°11 | 2°41 | T 23 |
| F 24 | 0 11 39 | 0°59'47 | 16°36 | 11°23 | 16°50 | 9°17 | 9° 1 | 28°37 | 1°22 | 27°32 | 18°24 | 3°30 | 2° 3 | 24°18 | 2°39 | F 24 |
| S 25 | 0 15 36 | 1°58'45 | 0 ∡ 748 | 13° 1 | 18° 5 | 9°59 | 9°14 | 28°44 | 1°20 | 27°30 | 18°25 | 3°24 | 1°59 | 24°25 | 2°36 | S 25 |
| S 26 | 0 19 32 | 2°57'45 | 14°31 | 14°39 | 19°20 | 10°40 | 9°26 | 28°50 | 1°18 | 27°29 | 18°25 | 3°21 | 1°56 | 24°31 | 2°34 | S 26 |
| M27 | 0 23 29 | 3°56'47 | 27°45 | 16°15 | 20°34 | 11°22 | 9°39 | 28°57 | 1°15 | 27°28 | 18°26 | 3°19 | 1°53 | 24°38 | 2°31 | M27 |
| T 28 | 0 27 25 | 4°55'51 | 10 궁 33 | 17°50 | 21°49 | 12° 5 | 9°51 | 29° 4 | 1°13 | 27°27 | 18°27 | 3°D19 | 1°50 | 24°45 | 2°29 | T 28 |
| W29 | 0 31 22 | 5°54'56 | 23° 1 | 19°25 | 23° 4 | 12°47 | 10° 4 | 29°10 | 1°11 | 27°25 | 18°27 | 3°20 | 1°47 | 24°52 | 2°26 | W29 |
| T 30 | 0 35 18 | 6 ₽ 54'03 | 5≈12 | 20 ≏ 59 | 24 Mp 19 | 13 × 29 | 10 M)16 | 29 Ω 17 | 18 9 | 27≈24 | 18928 | 3°R20 | 1 Ω 43 | 24 米 58 | 2 8 24 | T 30 |

Delta T = 21.63 sec Greg. Calendar

21.03 see Greg. Careman

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| ULIUKER INXX III | 00.00 111 |
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| Day | Sid.t | 0 | D | φ | Ŷ | ď | 4 | ħ |)ұ(| ¥ | 5 | Ŋ | Ω | Ç | Š | Day |
|------|---------|------------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|--------|--------|---------------|---------------|----------------|---------------|------|
| F 1 | 0 39 15 | 7 ≏ 53'12 | 17≈12 | 22 £ 32 | 25 Mg 33 | 14 × 12 | 10 m 28 | 29 Ω 24 | 1°R 7 | 27°R23 | 189528 | 3°R19 | 1 Ω 40 | 25 米 5 | 2°R21 | F 1 |
| S 2 | 0 43 11 | 8°52'23 | 29° 5 | 24° 4 | 26°48 | 14°54 | 10°40 | 29°30 | 1 8 5 | 27≈22 | 18°28 | 3 Ω 16 | 1°37 | 25°12 | 2 8 18 | S 2 |
| S 3 | 0 47 8 | 9°51'36 | 10 ¥ 55 | 25°35 | 28° 3 | 15°37 | 10°53 | 29°37 | 1° 2 | 27°21 | 18°29 | 3°10 | 1°34 | 25°18 | 2°16 | S 3 |
| M 4 | 0 51 5 | 10°50'50 | 22°45 | 27° 6 | 29°18 | 16°19 | 11° 5 | 29°43 | 1° 0 | 27°20 | 18°29 | 3° 1 | 1°31 | 25°25 | 2°13 | M 4 |
| T 5 | 0 55 1 | 11°50'06 | 4℃ 37 | 28°36 | 0 ჲ 33 | 17° 2 | 11°17 | 29°49 | 0°58 | 27°19 | 18°30 | 2°50 | 1°28 | 25°32 | 2°10 | T 5 |
| W 6 | 0 58 58 | 12°49'25 | 16°33 | 0 M 5 | 1°48 | 17°45 | 11°29 | 29°56 | 0°56 | 27°18 | 18°30 | 2°38 | 1°24 | 25°38 | 2° 7 | W 6 |
| T 7 | 1 2 54 | 13°48'46 | 28°34 | 1°33 | 3° 2 | 18°28 | 11°41 | 0Mp 2 | 0°53 | 27°17 | 18°30 | 2°24 | 1°21 | 25°45 | 2° 5 | T 7 |
| F 8 | 1 6 51 | 14°48'08 | 10841 | 3° 1 | 4°17 | 19°11 | 11°53 | 0° 8 | 0°51 | 27°16 | 18°31 | 2°11 | 1°18 | 25°52 | 2° 2 | F 8 |
| S 9 | 1 10 47 | 15°47'33 | 22°55 | 4°27 | 5°32 | 19°54 | 12° 4 | 0°14 | 0°49 | 27°15 | 18°31 | 2° 0 | 1°15 | 25°58 | 1°59 | S 9 |
| S 10 | 1 14 44 | 16°47'00 | 5 Ⅱ 19 | 5°53 | 6°47 | 20°38 | 12°16 | 0°20 | 0°46 | 27°14 | 18°31 | 1°51 | 1°12 | 26° 5 | 1°56 | S 10 |
| M11 | 1 18 40 | 17°46'30 | 17°54 | 7°18 | 8° 2 | 21°21 | 12°28 | 0°26 | 0°44 | 27°13 | 18°31 | 1°45 | 1° 8 | 26°12 | 1°53 | M11 |
| T 12 | 1 22 37 | 18°46'02 | 09୍ଦ44 | 8°42 | 9°17 | 22° 5 | 12°40 | 0°32 | 0°41 | 27°12 | 18°32 | 1°42 | 1° 5 | 26°19 | 1°50 | T 12 |
| W13 | 1 26 33 | 19°45'36 | 13°50 | 10° 6 | 10°32 | 22°48 | 12°51 | 0°38 | 0°39 | 27°11 | 18°32 | 1°41 | 1° 2 | 26°25 | 1°47 | W13 |
| T 14 | 1 30 30 | 20°45'12 | 27°16 | 11°28 | 11°47 | 23°32 | 13° 3 | 0°44 | 0°37 | 27°10 | 18°32 | 1°41 | 0°59 | 26°32 | 1°45 | T 14 |
| F 15 | 1 34 27 | 21°44'51 | 11 Ω 5 | 12°49 | 13° 3 | 24°15 | 13°14 | 0°50 | 0°34 | 27° 9 | 18°32 | 1°40 | 0°56 | 26°39 | 1°42 | F 15 |
| S 16 | 1 38 23 | 22°44'32 | 25°18 | 14°10 | 14°18 | 24°59 | 13°26 | 0°56 | 0°32 | 27° 9 | 18°32 | 1°39 | 0°53 | 26°45 | 1°39 | S 16 |
| S 17 | 1 42 20 | 23°44'15 | 9 m 54 | 15°29 | 15°33 | 25°43 | 13°37 | 1° 1 | 0°29 | 27° 8 | 18°32 | 1°35 | 0°49 | 26°52 | 1°36 | S 17 |
| M18 | 1 46 16 | 24°44'00 | 24°49 | 16°47 | 16°48 | 26°27 | 13°49 | 1° 7 | 0°27 | 27° 7 | 18°32 | 1°28 | 0°46 | 26°59 | 1°33 | M18 |
| T 19 | 1 50 13 | 25°43'48 | 9 ≙ 56 | 18° 4 | 18° 3 | 27°11 | 14° 0 | 1°12 | 0°24 | 27° 7 | 18°R32 | 1°19 | 0°43 | 27° 5 | 1°30 | T 19 |
| W20 | 1 54 9 | 26°43'37 | 25° 6 | 19°19 | 19°18 | 27°55 | 14°11 | 1°18 | 0°22 | 27° 6 | 18°32 | 1° 7 | 0°40 | 27°12 | 1°27 | W20 |
| T 21 | 1 58 6 | 27°43'29 | 10 m 7 | 20°33 | 20°34 | 28°40 | 14°22 | 1°23 | 0°19 | 27° 5 | 18°32 | 0°56 | 0°37 | 27°19 | 1°24 | T 21 |
| F 22 | 2 2 2 | 28°43'23 | 24°51 | 21°45 | 21°49 | 29°24 | 14°33 | 1°28 | 0°17 | 27° 5 | 18°32 | 0°45 | 0°34 | 27°26 | 1°21 | F 22 |
| S 23 | 2 5 59 | 29°43'18 | 9 , ₹ 9 | 22°56 | 23° 4 | 0号 8 | 14°44 | 1°33 | 0°15 | 27° 4 | 18°32 | 0°36 | 0°30 | 27°32 | 1°18 | S 23 |
| S 24 | 2 9 56 | 0 M 43'15 | 22°58 | 24° 5 | 24°19 | 0°53 | 14°55 | 1°39 | 0°12 | 27° 4 | 18°32 | 0°30 | 0°27 | 27°39 | 1°15 | S 24 |
| M25 | 2 13 52 | 1°43'14 | 6 ප 18 | 25°11 | 25°35 | 1°37 | 15° 6 | 1°44 | 0°10 | 27° 3 | 18°32 | 0°26 | 0°24 | 27°46 | 1°12 | M25 |
| T 26 | 2 17 49 | 2°43'15 | 19°10 | 26°15 | 26°50 | 2°22 | 15°16 | 1°49 | 0° 7 | 27° 3 | 18°32 | 0°25 | 0°21 | 27°52 | 1° 9 | T 26 |
| W27 | 2 21 45 | 3°43'17 | 1≈40 | 27°16 | 28° 5 | 3° 7 | 15°27 | 1°54 | 0° 5 | 27° 2 | 18°32 | 0°24 | 0°18 | 27°59 | 1° 6 | W27 |
| T 28 | 2 25 42 | 4°43'20 | 13°51 | 28°15 | 29°20 | 3°51 | 15°37 | 1°58 | 0° 2 | 27° 2 | 18°31 | 0°24 | 0°14 | 28° 6 | 1° 3 | T 28 |
| F 29 | 2 29 38 | 5°43'26 | 25°50 | 29°10 | 0 M .36 | 4°36 | 15°48 | 2° 3 | 29 Υ 59 | 27° 1 | 18°31 | 0°23 | 0°11 | 28°12 | 1° 0 | F 29 |
| S 30 | 2 33 35 | 6°43'32 | 7) 42 | 0 ≯ 1 | 1°51 | 5°21 | 15°58 | 2° 8 | 29°57 | 27° 1 | 18°31 | 0°19 | 0° 8 | 28°19 | 0°57 | S 30 |
| S 31 | 2 37 31 | 7 M 43'41 | 19 ∺ 31 | 0 ∡ 748 | 3M 6 | 6 පි | 16 M) 8 | 2 Mp 12 | 29 Y 55 | 27≈≈ 1 | 18931 | 0 Ω 13 | 0 Ω 5 | 28 米 26 | 0 8 54 | S 31 |

Delta T = 21.58 sec

NOVEMBER 1683 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)∤(| 并 | В | n | v | Ç | ę, | Day |
|------|---------|------------------|----------------|-----------------|----------------|----------------|----------------|---------------|----------------|--------|--------|--------|--------------|-----------------|----------------|------|
| M 1 | 2 41 28 | 8M43'51 | 1 Υ 22 | 1 ₹ 31 | 4ML22 | 6 ප 51 | 16 M 19 | 2 Mp 17 | 29°R52 | 27°R 1 | 18°R30 | 0°R 4 | 0 Ω 2 | 28) (33 | 0°R51 | M 1 |
| T 2 | 2 45 25 | 9°44'02 | 13°17 | 2° 9 | 5°37 | 7°36 | 16°29 | 2°21 | 29 Y 50 | 27≈ 0 | 18930 | 29953 | 29959 | 28°39 | 0 8 48 | T 2 |
| W 3 | 2 49 21 | 10°44'16 | 25°20 | 2°40 | 6°52 | 8°21 | 16°39 | 2°26 | 29°48 | 27° 0 | 18°30 | 29°39 | 29°55 | 28°46 | 0°45 | W 3 |
| T 4 | 2 53 18 | 11°44'31 | 7 8 30 | 3° 6 | 8° 8 | 9° 6 | 16°49 | 2°30 | 29°45 | 27° 0 | 18°29 | 29°25 | 29°52 | 28°53 | 0°42 | T 4 |
| F 5 | 2 57 14 | 12°44'48 | 19°50 | 3°24 | 9°23 | 9°51 | 16°58 | 2°34 | 29°43 | 27° 0 | 18°29 | 29°12 | 29°49 | 28°59 | 0°39 | F 5 |
| S 6 | 3 1 11 | 13°45'06 | 2 Ⅱ 19 | 3°34 | 10°38 | 10°37 | 17° 8 | 2°38 | 29°40 | 27° 0 | 18°28 | 28°59 | 29°46 | 29° 6 | 0°36 | S 6 |
| S 7 | 3 5 7 | 14°45'27 | 14°58 | 3°R37 | 11°54 | 11°22 | 17°18 | 2°42 | 29°38 | 27° 0 | 18°28 | 28°50 | 29°43 | 29°13 | 0°33 | S 7 |
| M 8 | 3 9 4 | 15°45'49 | 27°47 | 3°30 | 13° 9 | 12° 8 | 17°27 | 2°46 | 29°36 | 27°D 0 | 18°27 | 28°43 | 29°40 | 29°20 | 0°30 | M 8 |
| T 9 | 3 13 0 | 16°46'13 | 109548 | 3°13 | 14°24 | 12°53 | 17°36 | 2°50 | 29°33 | 27° 0 | 18°27 | 28°40 | 29°36 | 29°26 | 0°28 | T 9 |
| W10 | 3 16 57 | 17°46'39 | 24° 1 | 2°46 | 15°40 | 13°38 | 17°46 | 2°53 | 29°31 | 27° 0 | 18°26 | 28°D38 | 29°33 | 29°33 | 0°25 | W10 |
| T 11 | 3 20 54 | 18°47'07 | $7\Omega_{29}$ | 2° 9 | 16°55 | 14°24 | 17°55 | 2°57 | 29°29 | 27° 0 | 18°26 | 28°38 | 29°30 | 29°40 | 0°22 | T 11 |
| F 12 | 3 24 50 | 19°47'37 | 21°13 | 1°22 | 18°11 | 15°10 | 18° 4 | 3° 0 | 29°26 | 27° 0 | 18°25 | 28°R39 | 29°27 | 29°46 | 0°19 | F 12 |
| S 13 | 3 28 47 | 20°48'08 | 5 m)14 | 0°25 | 19°26 | 15°55 | 18°13 | 3° 4 | 29°24 | 27° 0 | 18°25 | 28°38 | 29°24 | 29°53 | 0°16 | S 13 |
| S 14 | 3 32 43 | 21°48'42 | 19°32 | 29 M .19 | 20°41 | 16°41 | 18°22 | 3° 7 | 29°22 | 27° 0 | 18°24 | 28°35 | 29°20 | 29°59 | 0°14 | S 14 |
| M15 | 3 36 40 | 22°49'17 | 4 º 6 | 28° 7 | 21°57 | 17°27 | 18°30 | 3°10 | 29°20 | 27° 1 | 18°24 | 28°29 | 29°17 | 0 Υ 6 | 0°11 | M15 |
| T 16 | 3 40 36 | 23°49'54 | 18°49 | 26°48 | 23°12 | 18°13 | 18°39 | 3°13 | 29°18 | 27° 1 | 18°23 | 28°21 | 29°14 | 0°13 | 0° 8 | T 16 |
| W17 | 3 44 33 | 24°50'33 | 3 M .37 | 25°27 | 24°28 | 18°58 | 18°47 | 3°17 | 29°15 | 27° 1 | 18°22 | 28°12 | 29°11 | 0°20 | 0° 6 | W17 |
| T 18 | 3 48 29 | 25°51'13 | 18°21 | 24° 6 | 25°43 | 19°44 | 18°56 | 3°19 | 29°13 | 27° 1 | 18°22 | 28° 1 | 29° 8 | 0°27 | 0° 3 | T 18 |
| F 19 | 3 52 26 | 26°51'54 | 2 7 52 | 22°46 | 26°59 | 20°30 | 19° 4 | 3°22 | 29°11 | 27° 2 | 18°21 | 27°52 | 29° 5 | 0°33 | 0° 0 | F 19 |
| S 20 | 3 56 23 | 27°52'38 | 17° 3 | 21°32 | 28°14 | 21°16 | 19°12 | 3°25 | 29° 9 | 27° 2 | 18°20 | 27°44 | 29° 1 | 0°40 | 29 Y 58 | S 20 |
| S 21 | 4 0 19 | 28°53'22 | 0 궁 51 | 20°26 | 29°30 | 22° 2 | 19°20 | 3°28 | 29° 7 | 27° 3 | 18°19 | 27°38 | 28°58 | 0°47 | 29°55 | S 21 |
| M22 | 4 4 16 | 29°54'08 | 14°12 | 19°28 | 0 , 745 | 22°49 | 19°28 | 3°30 | 29° 5 | 27° 3 | 18°19 | 27°35 | 28°55 | 0°53 | 29°53 | M22 |
| T 23 | 4 8 12 | 0 ₮ 54'54 | 27° 8 | 18°41 | 2° 0 | 23°35 | 19°35 | 3°32 | 29° 3 | 27° 3 | 18°18 | 27°D34 | 28°52 | 1° 0 | 29°50 | T 23 |
| W24 | 4 12 9 | 1°55'42 | 9 ≈ 41 | 18° 6 | 3°16 | 24°21 | 19°43 | 3°35 | 29° 1 | 27° 4 | 18°17 | 27°34 | 28°49 | 1° 7 | 29°48 | W24 |
| T 25 | 4 16 5 | 2°56'31 | 21°56 | 17°41 | 4°31 | 25° 7 | 19°50 | 3°37 | 28°59 | 27° 5 | 18°16 | 27°35 | 28°46 | 1°14 | 29°45 | T 25 |
| F 26 | 4 20 2 | 3°57'20 | 3 ¥ 58 | 17°29 | 5°47 | 25°53 | 19°58 | 3°39 | 28°57 | 27° 5 | 18°15 | 27°R36 | 28°42 | 1°20 | 29°43 | F 26 |
| S 27 | 4 23 58 | 4°58'11 | 15°51 | 17°D27 | 7° 2 | 26°39 | 20° 5 | 3°41 | 28°55 | 27° 6 | 18°14 | 27°35 | 28°39 | 1°27 | 29°41 | S 27 |
| S 28 | 4 27 55 | 5°59'02 | 27°42 | 17°36 | 8°18 | 27°26 | 20°12 | 3°43 | 28°53 | 27° 6 | 18°14 | 27°32 | 28°36 | 1°34 | 29°38 | S 28 |
| M29 | 4 31 52 | 6°59'54 | 9 Ƴ 34 | 17°54 | 9°33 | 28°12 | 20°19 | 3°45 | 28°52 | 27° 7 | 18°13 | 27°27 | 28°33 | 1°40 | 29°36 | M29 |
| T 30 | 4 35 48 | 8 才 0'47 | 21 Y 32 | 18 M 21 | 10 才 49 | 28 궁 58 | 20 m 25 | 3 m 46 | 28 Y 50 | 27≈ 8 | 189512 | 279520 | 28930 | 1 Υ 47 | 29 Y 34 | T 30 |

Delta T = 21.54 sec

Greg. Calendar

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| Day | Sid.t | 0 | D | ğ | · | ♂ [™] | 4 | ħ | Ж | ¥ | Р | ß | ಬ | Ç | ķ | Day |
|------|---------|------------------|------------------|-----------------|----------------|-----------------|----------------|---------------|----------------|----------------|--------|--------|-------|---------------|----------------|------|
| W 1 | 4 39 45 | 9 .7 1'41 | 3 8 40 | 18 M .56 | 12 ×7 4 | 29 ප් 45 | 20 m 32 | 3 m 48 | 28°R48 | 27≈ 9 | 18°R11 | 27°R12 | 28926 | 1 Y 54 | 29°R32 | W 1 |
| T 2 | 4 43 41 | 10° 2'36 | 15°59 | 19°38 | 13°20 | 0≈31 | 20°38 | 3°49 | 28 Y 46 | 27° 9 | 189910 | 2799 3 | 28°23 | 2° 0 | 29 Y 30 | T 2 |
| F 3 | 4 47 38 | 11° 3'31 | 28°32 | 20°27 | 14°35 | 1°18 | 20°45 | 3°51 | 28°45 | 27°10 | 18° 9 | 26°54 | 28°20 | 2° 7 | 29°28 | F 3 |
| S 4 | 4 51 34 | 12° 4'28 | 11 II 18 | 21°20 | 15°50 | 2° 4 | 20°51 | 3°52 | 28°43 | 27°11 | 18° 8 | 26°46 | 28°17 | 2°14 | 29°26 | S 4 |
| S 5 | 4 55 31 | 13° 5'26 | 24°17 | 22°19 | 17° 6 | 2°51 | 20°57 | 3°53 | 28°42 | 27°12 | 18° 7 | 26°40 | 28°14 | 2°21 | 29°24 | S 5 |
| M 6 | 4 59 27 | 14° 6'24 | 79528 | 23°22 | 18°21 | 3°37 | 21° 3 | 3°54 | 28°40 | 27°13 | 18° 6 | 26°36 | 28°11 | 2°27 | 29°22 | M 6 |
| T 7 | 5 3 24 | 15° 7'24 | 20°51 | 24°28 | 19°37 | 4°24 | 21° 8 | 3°55 | 28°39 | 27°14 | 18° 5 | 26°D34 | 28° 7 | 2°34 | 29°20 | T 7 |
| W 8 | 5 7 21 | 16° 8'24 | $4\Omega 25$ | 25°38 | 20°52 | 5°10 | 21°14 | 3°56 | 28°37 | 27°15 | 18° 4 | 26°34 | 28° 4 | 2°41 | 29°18 | W 8 |
| T 9 | 5 11 17 | 17° 9'26 | 18° 8 | 26°50 | 22° 8 | 5°57 | 21°19 | 3°56 | 28°36 | 27°16 | 18° 3 | 26°35 | 28° 1 | 2°47 | 29°16 | T 9 |
| F 10 | 5 15 14 | 18°10'28 | 2MD 0 | 28° 5 | 23°23 | 6°43 | 21°24 | 3°57 | 28°34 | 27°17 | 18° 2 | 26°37 | 27°58 | 2°54 | 29°15 | F 10 |
| S 11 | 5 19 10 | 19°11'32 | 16° 1 | 29°21 | 24°39 | 7°30 | 21°29 | 3°57 | 28°33 | 27°18 | 18° 1 | 26°R38 | 27°55 | 3° 1 | 29°13 | S 11 |
| S 12 | 5 23 7 | 20°12'36 | 0 ჲ 10 | 0 , 740 | 25°54 | 8°16 | 21°34 | 3°58 | 28°32 | 27°19 | 17°59 | 26°37 | 27°51 | 3° 8 | 29°11 | S 12 |
| M13 | 5 27 3 | 21°13'42 | 14°25 | 2° 0 | 27°10 | 9° 3 | 21°39 | 3°58 | 28°31 | 27°20 | 17°58 | 26°35 | 27°48 | 3°14 | 29°10 | M13 |
| T 14 | 5 31 0 | 22°14'48 | 28°44 | 3°22 | 28°25 | 9°50 | 21°43 | 3°58 | 28°29 | 27°22 | 17°57 | 26°32 | 27°45 | 3°21 | 29° 8 | T 14 |
| W15 | 5 34 56 | 23°15'55 | 13 M 3 | 4°45 | 29°40 | 10°36 | 21°48 | 3°R58 | 28°28 | 27°23 | 17°56 | 26°27 | 27°42 | 3°28 | 29° 7 | W15 |
| T 16 | 5 38 53 | 24°17'03 | 27°18 | 6° 9 | 0 궁 56 | 11°23 | 21°52 | 3°58 | 28°27 | 27°24 | 17°55 | 26°22 | 27°39 | 3°34 | 29° 5 | T 16 |
| F 17 | 5 42 50 | 25°18'11 | 11 ~ 23 | 7°33 | 2°11 | 12°10 | 21°56 | 3°58 | 28°26 | 27°25 | 17°54 | 26°17 | 27°36 | 3°41 | 29° 4 | F 17 |
| S 18 | 5 46 46 | 26°19'21 | 25°13 | 8°59 | 3°27 | 12°57 | 22° 0 | 3°57 | 28°25 | 27°27 | 17°52 | 26°13 | 27°32 | 3°48 | 29° 3 | S 18 |
| S 19 | 5 50 43 | 27°20'30 | 8 국 46 | 10°26 | 4°42 | 13°43 | 22° 3 | 3°57 | 28°24 | 27°28 | 17°51 | 26°10 | 27°29 | 3°55 | 29° 1 | S 19 |
| M20 | 5 54 39 | 28°21'40 | 21°58 | 11°53 | 5°58 | 14°30 | 22° 7 | 3°56 | 28°23 | 27°29 | 17°50 | 26°D 9 | 27°26 | 4° 1 | 29° 0 | M20 |
| T 21 | 5 58 36 | 29°22'50 | 4≈51 | 13°20 | 7°13 | 15°17 | 22°10 | 3°56 | 28°22 | 27°31 | 17°49 | 26° 9 | 27°23 | 4° 8 | 28°59 | T 21 |
| W22 | 6 2 32 | 0 궁 24'01 | 17°24 | 14°49 | 8°29 | 16° 3 | 22°13 | 3°55 | 28°22 | 27°32 | 17°48 | 26°10 | 27°20 | 4°15 | 28°58 | W22 |
| T 23 | 6 6 29 | 1°25'11 | 29°41 | 16°17 | 9°44 | 16°50 | 22°16 | 3°54 | 28°21 | 27°33 | 17°46 | 26°12 | 27°17 | 4°21 | 28°57 | T 23 |
| F 24 | 6 10 26 | 2°26'21 | 11) (45 | 17°47 | 10°59 | 17°37 | 22°19 | 3°53 | 28°20 | 27°35 | 17°45 | 26°14 | 27°13 | 4°28 | 28°56 | F 24 |
| S 25 | 6 14 22 | 3°27'31 | 23°40 | 19°16 | 12°15 | 18°24 | 22°21 | 3°52 | 28°19 | 27°36 | 17°44 | 26°15 | 27°10 | 4°35 | 28°55 | S 25 |
| S 26 | 6 18 19 | 4°28'41 | 5 Υ 32 | 20°46 | 13°30 | 19°11 | 22°24 | 3°51 | 28°19 | 27°38 | 17°43 | 26°R15 | 27° 7 | 4°42 | 28°54 | S 26 |
| M27 | 6 22 15 | 5°29'51 | 17°25 | 22°17 | 14°46 | 19°57 | 22°26 | 3°49 | 28°18 | 27°39 | 17°41 | 26°15 | 27° 4 | 4°48 | 28°53 | M27 |
| T 28 | 6 26 12 | 6°31'01 | 29°24 | 23°48 | 16° 1 | 20°44 | 22°28 | 3°48 | 28°18 | 27°41 | 17°40 | 26°13 | 27° 1 | 4°55 | 28°53 | T 28 |
| W29 | 6 30 8 | 7°32'10 | 11833 | 25°19 | 17°16 | 21°31 | 22°30 | 3°46 | 28°17 | 27°43 | 17°39 | 26°11 | 26°57 | 5° 2 | 28°52 | W29 |
| T 30 | 6 34 5 | 8°33'19 | 23°56 | 26°51 | 18°32 | 22°18 | 22°31 | 3°45 | 28°17 | 27°44 | 17°38 | 26° 8 | 26°54 | 5° 8 | 28°51 | T 30 |
| F 31 | 6 38 1 | 9 ට 34'28 | 6耳36 | 28 × 23 | 19 궁 47 | 23 ≈ 4 | 22 Mg 33 | 3 m 43 | 28 Y 17 | 27 ≈ 46 | 17936 | 2695 5 | 26951 | 5 Υ 15 | 28 Y 51 | F 31 |

Delta T = 21.49 sec

JANUARY 1684 GC 00:00 UT

| S 2 6 45 55 11°36′46 22°52 1 528 22°18 24°38 22°35 3 m 39 28°16 27°49 17′53 4 26°51 26°45 5°29 28′8 M 3 6 49 51 12°37′55 16°26 3° 1 23°33 25°25 22°36 3°37 28°16 27°51 17°33 26° 0 26°42 5°35 22′14 4 6 53 48 13°39′03 0∂16 4°35 24°48 26°11 22°37 3°35 28°16 27°51 17°31 26°D 0 26°38 5°42 22′15 4 6 53 48 13°39′03 0∂16 4°35 24°48 26°11 22°37 3°35 28°16 27°53 17°31 26°D 0 26°38 5°42 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 4 57°30 26° 1 26°35 5°49 22′15 5° 1 26 | Day | Q K | Ç | v | ħ. | В | 并 |)Å(| ħ | 4 | ď | φ | ğ | D | 0 | Sid.t | Day |
|---|---------------------|----------------|---------------|--------|--------|--------|-------|----------------|---------------|----------------|---------------|-------|-----------------|-----------------|------------|---------|------|
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | R50 S 1 | 28°R50 | 5 ℃ 22 | 26948 | 26°R 3 | 17°R35 | 27≈48 | 28°R16 | 3°R41 | 22 Mp 34 | 23≈51 | 21중 2 | 29 × 755 | 19 Ⅲ 35 | 10 ට 35'37 | 6 41 58 | S 1 |
| $\begin{array}{c} T \ 4 \ 65348 \ 13^\circ 3903 \ 0 \Omega 16 \ 4^\circ 35 \ 24^\circ 48 \ 26^\circ 11 \ 22^\circ 37 \ 3^\circ 35 \ 28^\circ 16 \ 27^\circ 53 \ 17^\circ 31 \ 26^\circ D \ 0 \ 26^\circ 38 \ 5^\circ 42 \ 22^\circ W 5 \ 657 44 \ 14^\circ 40^\circ 11 \ 14^\circ 18 \ 6^\circ 9 \ 26^\circ 4 \ 26^\circ 58 \ 22^\circ 37 \ 3^\circ 33 \ 28^\circ 16 \ 27^\circ 54 \ 17^\circ 30 \ 26^\circ 1 \ 26^\circ 35 \ 5^\circ 49 \ 22^\circ 57 \ 7 \ 7 \ 57 \ 11 \ 15^\circ 41^\circ 19 \ 28^\circ 28 \ 7^\circ 43 \ 27^\circ 19 \ 27^\circ 45 \ 22^\circ 38 \ 3^\circ 30 \ 28^\circ D16 \ 27^\circ 56 \ 17^\circ 29 \ 26^\circ 2 \ 26^\circ 32 \ 5^\circ 55 \ 22^\circ 575 \ 7 \ 7 \ 537 \ 16^\circ 42^\circ 27 \ 120^\circ 43 \ 3^\circ 18 \ 28^\circ 34 \ 28^\circ 31 \ 22^\circ 38 \ 3^\circ 28 \ 28^\circ 16 \ 27^\circ 58 \ 17^\circ 27 \ 26^\circ 3 \ 26^\circ 29 \ 6^\circ 2 \ 22^\circ 57 \ 537 \ 16^\circ 42^\circ 27 \ 120^\circ 43 \ 3^\circ 29^\circ 50 \ 29^\circ 18 \ 22^\circ 38 \ 3^\circ 25 \ 28^\circ 16 \ 28^\circ 0 \ 17^\circ 26 \ 26^\circ 3 \ 26^\circ 26 \ 6^\circ 9 \ 28^\circ 58 \ 7 \ 934 \ 17^\circ 43^\circ 35 \ 26^\circ 59 \ 10^\circ 53 \ 29^\circ 50 \ 29^\circ 18 \ 22^\circ 38 \ 3^\circ 25 \ 28^\circ 16 \ 28^\circ 0 \ 17^\circ 26 \ 26^\circ 3 \ 26^\circ 26 \ 6^\circ 9 \ 28^\circ 58 \ 7 \ 934 \ 17^\circ 43^\circ 35 \ 26^\circ 59 \ 10^\circ 53 \ 29^\circ 50 \ 29^\circ 18 \ 22^\circ 38 \ 3^\circ 25 \ 28^\circ 16 \ 28^\circ 0 \ 17^\circ 26 \ 26^\circ 3 \ 26^\circ 26 \ 6^\circ 9 \ 28^\circ 59 \ 17^\circ 27 \ 19^\circ 45^\circ 50 \ 25^\circ 24 \ 14^\circ 5 \ 2^\circ 20 \ 0^\circ 51 \ 22^\circ 37 \ 3^\circ 20 \ 28^\circ 16 \ 28^\circ 0 \ 17^\circ 26 \ 26^\circ 3 \ 26^\circ 26 \ 6^\circ 9 \ 28^\circ 59 \ 17^\circ 19^\circ 45^\circ 50 \ 25^\circ 24 \ 14^\circ 5 \ 2^\circ 20 \ 0^\circ 51 \ 22^\circ 37 \ 3^\circ 20 \ 28^\circ 16 \ 28^\circ 4 \ 17^\circ 24 \ 26^\circ 8 \ 4 \ 26^\circ 19 \ 6^\circ 22 \ 22^\circ 111 \ 72^\circ 12^\circ 42 \ 20^\circ 45^\circ 57 \ 90^\circ 12^\circ 29^\circ 3 \ 22^\circ 37 \ 3^\circ 20 \ 28^\circ 16 \ 28^\circ 6 \ 17^\circ 25 \ 26^\circ 4 \ 4^\circ 26^\circ 3 \ 26^\circ 19 \ 6^\circ 22 \ 22^\circ 17 \ 117^\circ 12^\circ 12^\circ 42 \ 20^\circ 45^\circ 17 \ 27^\circ 19^\circ 45^\circ 19 \ 27^\circ 13^\circ 17^\circ 19^\circ 45^\circ 19^\circ 17^\circ 19$ | ² 50 S 2 | 28 Y 50 | 5°29 | 26°45 | 2695 1 | 179534 | 27°49 | 28 Y 16 | 3 m 39 | 22°35 | 24°38 | 22°18 | 1 る 28 | 2952 | 11°36'46 | 6 45 55 | S 2 |
| W 5 6 57 44 | | 28°50 | | | | -, | | | , | | | | | | | , | - |
| T 6 7 141 15°41'19 28°28 7°43 27°19 27°45 22°38 3°30 28°D16 27°56 17°29 26° 2 26°32 5°55 22 F 7 7 5 37 16°42'27 12th43 9°18 28°34 28°31 22°R38 3°28 28°16 27°58 17°27 26° 3 26°26 6° 2 28′ 8 7 9 34 17°43'35 26°59 10°53 29°50 29°18 22°38 3°25 28°16 28° 0 17°26 26° 3 26°26 6° 9 28° 8 9 7 13 30 18°44'42 11丘14 12°29 18≈ 5 0★ 5 22°37 3°23 28°16 28° 0 17°26 26° 4 26°23 6°16 6°22 22′ 11 7 1 7 27 19°45'50 25°24 14° 5 2°20 0°51 22°37 3°20 28°16 28° 6 17°22 26° 3 26°16 6°22 22′ 11 7 7 27 19°45'50 25°24 14° 5 2°20 0°51 22°37 3°20 28°16 28° 6 17°22 26° 3 26°16 6°22 22′ 11 7 25 20 21°48'05 23°23 17°19 4*51 22°35 3°14 28°16 28° 6 17°22 26° 3 26°16 6°29 22′ 11 7 25 20 21°48'05 23°23 17°19 4*51 22°35 3°14 28°16 28° 6 17°22 26° 3 26°10 6°42 21′ 11 7 22°49'12 7₹10 18°57 6° 6 3°11 22°34 3°11 28°17 28°19 17°20 26° 3 26°10 6°42 22′ 11 3 7 29 17 22°49'12 7₹10 18°57 6° 6 3°11 22°34 3°11 28°17 28°19 17°12 26° 3 26°10 6°42 22′ 11 3 7 3 10 24°51'25 4₹ 7 22°14 8°36 4°45 22°32 3°5 28°18 28°13 17°17 26° 2 26° 3 6°56 22′ 11 8°45 3 26°53'36 0∞11 25°34 11° 7 6°18 22°32 3°5 28°18 28°13 17°17 26° 2 26° 3 6°56 22′ 11 8°45 4 25°17 28°55 13°37 7°51 22°24 22°55 28°19 28°19 17°12 26° 2 25°57 7° 9 22′ 11 8°45 4 25°17 28°55 13°37 7°51 22°24 22°56 28°19 28°19 17°12 26° 2 25°54 7°16 22′ 11 8°45 4 11° 7 8°55 4 22°25 8°37 22°22 2°48 28°19 28°19 17°11 26° 2 25°54 7°16 22′ 11 8°45 4 11° 7 8°54 4 11° 7 8°55 13°37 7°51 22°24 2°55 28°19 28°19 17°11 26° 2 25°54 7°16 22′ 11° 18° 04° 04° 04° 04° 04° 04° 04° 04° 04° 04 | | 28°49 | - | | - | | | | | | - | _ | | | | | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | 28°49 | | | - | | | | | | | - | | | | | |
| S 8 7 9 34 17°43'35 26°59 10°53 29°50 29°18 22°38 3°25 28°16 28° 0 17°26 26° 3 26°26 6° 9 28° 8 9 7 13 30 18°44'42 11£14 12°29 1≈ 5 0 € 5 0 € 5 22°37 3°23 28°16 28° 2 17°25 26° 4 26°23 6°16 22° 11 72 12 20°46'57 9€22 22°20 0°51 22°37 3°20 28°16 28° 4 17°24 26°R 4 26°19 6°22 22° 11 72 12 20°46'57 9€22 23° 23 17°19 4°51 2°25 22°35 3°17 28°16 28° 4 17°24 26°R 4 26°19 6°22 22° 11 72 12 20°46'57 9€22 23° 23 17°19 4°51 2°25 22°35 3°14 28°16 28° 7 17°21 26° 3 26°16 6°29 28° 11 22°49 28° 21 22°49 28° 21 22°49 28° 21 22° 31 22° 31 22° 31 22° 31 3°14 28° 16 28° 7 17°21 26° 3 26° 10 6°36 23° 21 22° 31 22° 31 22° 31 3° 11 22° 31 3° 11 28° 17 28° 19 17° 10 26° 3 26° 10 6° 42 22° 11 22° 31 23° 31 23° 50′ 19 20° 45 20° 35 7° 21 3° 58 22° 33 3° 8 28° 17 28° 11 17° 18 26° 2 26° 7 6° 49 23° 23° 23° 23° 23° 23° 23° 23° 23° 23° | - | 28°49 | | | - | | | - | | | | | | | | | |
| S 9 | | 28°49 | - | | | | | | | | | | | ~ | | | - ' |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | D49 S 8 | 28°D49 | 6° 9 | 26°26 | 26° 3 | 17°26 | 28° 0 | 28°16 | 3°25 | 22°38 | 29°18 | 29°50 | 10°53 | 26°59 | 17°43'35 | 7 9 34 | S 8 |
| T11 72124 20°46′57 9M28 15°42 3°35 1°38 22°36 3°17 28°16 28° 6 17°22 26° 3 26°16 6°29 22° 148′05 23°23 17°19 4°51 2°25 22°35 3°14 28°16 28° 7 17°21 26° 3 26°13 6°36 22° 13 72917 22°49′12 7₹10 18°57 6° 6 3°11 22°34 3°11 28°17 28° 9 17°20 26° 3 26°10 6°42 22° 14 73313 23°50′19 20°45 20°35 7°21 3°58 22°33 3° 8 28°17 28°11 17°18 26° 2 26° 7 6°49 22° 15 73710 24°51′25 4♂ 7 22°14 8°36 4°45 22°32 3° 5 28°18 28°13 17°17 26° 2 26° 3 6°56 23° 11° 17° 16 23°54 9°52 5°31 22°30 3° 2 28°18 28°13 17°16 26° D 2 26° 0 7° 3 22° 18° 18° 18° 18° 18° 18° 18° 18° 18° 18 | | 28°49 | | | - | | | | | | | | | | - | | S 9 |
| W12 | | 28°49 | | | | | | | | | | | | - | | | - |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | - | 28°49 | | | | | | | | | | | | | | | |
| F 14 | | 28°49 | | | | | | | _ | | | | -, -, | | | | |
| S 15 7 37 10 24°51′25 4₹ 7 22°14 8°36 4°45 22°32 3° 5 28°18 28°13 17°17 26° 2 26° 3 6°56 22° 18 28° 18 28° 13 17° 17 26° 2 26° 3 6°56 22° 18 28° 19 28° 19 | | 28°50 | - | | | | | - | _ | | - | | | | | | - |
| S 16 7 41 6 25°52'31 17°16 23°54 9°52 5°31 22°30 3° 2 28°18 28°15 17°16 26°D 2 26° 0 7° 3 22 M17 7 45 3 26°53'36 0∞11 25°34 11° 7 6°18 22°28 2°58 28°19 28°17 17°15 26°R 2 25°57 7° 9 22 T 18 7 48 59 27°54'40 12°51 27°14 12°22 7° 4 22°26 2°55 28°19 28°19 17°13 26° 2 25°54 7°16 22 W19 7 52 56 28°55'44 25°17 28°55 13°37 7°51 22°24 2°51 28°20 28°21 17°13 26° 2 25°54 7°16 22 T 20 7 56 53 29°56'46 7₩30 0∞37 14°52 8°37 22°22 2°48 28°21 28°23 17°11 26° 1 25°48 7°29 22° F 21 8 0 49 0∞57'48 19°34 2°20 16° 7 9°24 22°19 2°44 28°21 28°25 17° 9 26° | | 28°50 | | | - | -, | _ | - | | | | | | | | | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | °50 S 15 | 28°50 | 6°56 | 26° 3 | 26° 2 | 17°17 | 28°13 | 28°18 | 3° 5 | 22°32 | 4°45 | 8°36 | 22°14 | 4 6 7 | 24°51'25 | 7 37 10 | S 15 |
| T 18 7 48 59 27°54'40 12°51 27°14 12°22 7° 4 22°26 2°55 28°19 28°19 17°13 26° 2 25°54 7°16 22°8 W19 7 52 56 28°55'44 25°17 28°55 13°37 7°51 22°24 2°51 28°20 28°21 17°12 26° 2 25°51 7°23 22°17 T 20 7 56 53 29°56'46 7₩30 0∞37 14°52 8°37 22°22 2°48 28°21 28°23 17°11 26° 1 25°48 7°29 22°18 2°20 16° 7 9°24 22°19 2°44 28°21 28°25 17° 9 26° 1 25°44 7°36 22°18 2°40 28°22 28°27 17° 8 26° 0 25°41 7°36 22°18 2°40 28°22 28°27 17° 8 26° 0 25°41 7°43 22°18 2°37 28°23 28°30 17° 7 25°59 25°38 7°50 22°18 2°37 28°23 28°30 17° 7 25°59 25°38 7°50 22°18 22°10 2°33 28°24 | | 28°51 | | | - | | | | _ | | | | | | | | |
| W19 | | 28°51 | , , | | | | | | | _ | | , | | | | | |
| T 20 7 56 53 29°56'46 7 ₭30 0≈37 14°52 8°37 22°22 2°48 28°21 28°23 17°11 26° 1 25°48 7°29 22°18 F 21 8 0 49 0≈57'48 19°34 2°20 16° 7 9°24 22°19 2°44 28°21 28°25 17° 9 26° 1 25°44 7°36 22°18 2°40 28°22 28°27 17° 8 26° 0 25°41 7°36 22°18 2°40 28°22 28°27 17° 8 26° 0 25°41 7°43 22°18 2°40 28°22 28°27 17° 8 26° 0 25°41 7°43 22°18 2°40 28°22 28°27 17° 8 26° 0 25°41 7°43 22°18 2°40 28°22 28°27 17° 8 26° 0 25°41 7°43 22°18 2°37 28°23 28°30 17° 7 25°59 25°38 7°50 22°18 22°10 2°33 28°24 28°32 17° 6 25°59 25°35 7°56 22°18 28°25 28°34 17° 5 25°59 25°35 7°56 22°18 | | 28°52 | | | - | | | | | _ | , , | | | - | | | |
| F 21 8 0 49 0≈57'48 19°34 2°20 16° 7 9°24 22°19 2°44 28°21 28°25 17° 9 26° 1 25°44 7°36 22° 8 4 46 1°58'48 1°429 4° 3 17°22 10°10 22°16 2°40 28°22 28°27 17° 8 26° 0 25°41 7°43 22° 8 23 8 8 42 2°59'48 13°21 5°46 18°38 10°57 22°13 2°37 28°23 28°30 17° 7 25°59 25°38 7°50 22° 10°40 18°48 12 39 4° 0'46 25°13 7°30 19°53 11°43 22°10 2°33 28°24 28°32 17° 6 25°59 25°38 7°50 22° 1725 8 16 35 5° 1'43 7°511 9°15 21° 8 12°30 22° 7 2°29 28°25 28°34 17° 5 25°D59 25°32 8° 3 28°40 17° 7 25°59 25°29 8°10 22° 12° 8 24 28° 12° 12° 12° 12° 13° 13° 14° 14° 14° 14° 14° 14° 14° 14° 14° 14 | | 28°52 | | | _ | | _ | | - | | | | | | | | |
| S 22 8 4 46 1°58'48 1°729 4° 3 17°22 10°10 22°16 2°40 28°22 28°27 17° 8 26° 0 25°41 7°43 22° 18° 23 8 8 42 2°59'48 13°21 5°46 18°38 10°57 22°13 2°37 28°23 28°30 17° 7 25°59 25°38 7°50 22° 18° 23° 24° 28° 24 28°32 17° 6 25°59 25°38 7°50 22° 18° 25° 18° 143 7°51 9°15 21° 8 12°30 22° 7 2°29 28°25 28°34 17° 5 25° 159 25°35 7°56 22° 18° 18° 18° 18° 18° 18° 18° 18° 18° 18 | | 28°53 | | | - | | | - | - | | | _ | | | | | |
| S 23 8 8 42 2°59'48 13°21 5°46 18°38 10°57 22°13 2°37 28°23 28°30 17° 7 25°59 25°38 7°50 25° M24 8 12 39 4° 0'46 25°13 7°30 19°53 11°43 22°10 2°33 28°24 28°32 17° 6 25°59 25°35 7°56 25° T25 8 16 35 5° 1'43 78'11 9°15 21° 8 12°30 22° 7 2°29 28°25 28°34 17° 5 25°D59 25°32 8° 3 25° W26 8 20 32 6° 2'39 19°18 11° 0 22°23 13°16 22° 3 2°25 28°26 28°36 17° 3 25°59 25°29 8°10 21° T27 8 24 28 7° 3'33 1\$\textbf{\Pi}39\$ 12°46 23°38 14° 2 22° 0 2°21 28°27 28°38 17° 2 26° 0 25°25 8°16 29° F28 8 28 25 8° 4'27 14°19 14°32 24°53 14°49 21°56 2°17 28°28 28°40 17° 1 26° 1 25°22 8°23 28°23 28°23 28°24 28°30 17° 1 26° 1 25°22 8°23 28°30 17° 1 26° 1 25°22 8°23 28°30 17° 1 26° 1 25°22 8°23 28°30 17° 1 26° 1 25°22 8°23 28°30 17° 2 26° 0 25°25 8°16 28° M26 17° M26 18° M26 1 | - | 28°54 | | - | _ | -, - | | - | | - | - | | | | | | |
| M24 8 12 39 4° 0'46 25°13 7°30 19°53 11°43 22°10 2°33 28°24 28°32 17° 6 25°59 25°35 7°56 25°125 8 16 35 5° 1'43 78'11 9°15 21° 8 12°30 22° 7 2°29 28°25 28°34 17° 5 25°D59 25°32 8° 3 25° 100 2 | °55 S 22 | 28°55 | 7°43 | 25°41 | 26° 0 | 17° 8 | 28°27 | 28°22 | 2°40 | 22°16 | 10°10 | 17°22 | 4° 3 | 1 'Y '29 | 1°58'48 | 8 4 46 | S 22 |
| T 25 8 16 35 5° 1'43 7 311 9°15 21° 8 12°30 22° 7 2°29 28°25 28°34 17° 5 25°D59 25°32 8° 3 22° W26 8 20 32 6° 2'39 19°18 11° 0 22°23 13°16 22° 3 2°25 28°26 28°36 17° 3 25°59 25°29 8°10 22° T 27 8 24 28 7° 3'33 1 1 39 12°46 23°38 14° 2 22° 0 2°21 28°27 28°38 17° 2 26° 0 25°25 8°16 22° F 28 8 28 25 8° 4'27 14°19 14°32 24°53 14°49 21°56 2°17 28°28 28°40 17° 1 26° 1 25°22 8°23 29°23 | | 28°56 | | | 25°59 | | | | | _ | 10°57 | | | - | 2°59'48 | 8 8 42 | S 23 |
| W26 8 20 32 6° 2'39 19°18 11° 0 22°23 13°16 22° 3 2°25 28°26 28°36 17° 3 25°59 25°29 8°10 22° T 27 8 24 28 7° 3'33 1 1 39 12°46 23°38 14° 2 22° 0 2°21 28°27 28°38 17° 2 26° 0 25°25 8°16 29° F 28 8 28 25 8° 4'27 14°19 14°32 24°53 14°49 21°56 2°17 28°28 28°40 17° 1 26° 1 25°22 8°23 29° | | 28°57 | | 25°35 | 25°59 | | | | | | 11°43 | | | | 4° 0'46 | 8 12 39 | |
| T 27 8 24 28 7° 3'33 1 II 39 12°46 23°38 14° 2 22° 0 2°21 28°27 28°38 17° 2 26° 0 25°25 8°16 2' F 28 8 28 25 8° 4'27 14°19 14°32 24°53 14°49 21°56 2°17 28°28 28°40 17° 1 26° 1 25°22 8°23 2' | | 28°58 | | | | -, - | | | | | | _ | | | | | |
| F 28 8 28 25 8° 4'27 14°19 14°32 24°53 14°49 21°56 2°17 28°28 28°40 17° 1 26° 1 25°22 8°23 28°40 | | 28°59 | | | | -, - | | | | _ | | | - | | | | |
| | | | | | | | | - | | | | | - | | | - | |
| S 29 8 32 22 9° 5'19 27°21 16°19 26° 8 15°35 21°52 2°12 28°29 28°42 17° 0 26° 2 25°19 8°30 29°10 20°10 | - | 29° 1 | | - | _ | -, - | | | | | - | | _ | _ | - | | |
| | ° 2 S 29 | 29° 2 | 8°30 | 25°19 | 26° 2 | 17° 0 | 28°42 | 28°29 | 2°12 | 21°52 | 15°35 | 26° 8 | 16°19 | 27°21 | 9° 5'19 | 8 32 22 | S 29 |
| | | | | 25°16 | 26° 3 | 16°59 | 28°45 | | 2° 8 | 21°48 | 16°21 | 27°23 | 18° 6 | 109546 | 10° 6'09 | 8 36 18 | S 30 |
| M31 8 40 15 11≈ 6′59 24©35 19≈53 28≈38 17升 7 21mp43 2mp 4 28°Y32 28≈47 16©57 26°R 3 25©13 8°Y43 29° | o 5 M31 | 29 Υ 5 | 8 Ƴ 43 | 259613 | 26°R 3 | 16957 | 28≈47 | 28 Y 32 | 2 Mp 4 | 21 m 43 | 17) 7 | 28≈38 | 19≈53 | 24935 | 11≈ 6'59 | 8 40 15 | M31 |

Delta T = 21.45 sec

Greg. Calendar

FEBRUARY 1684 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | φ | ♂ | 4 | ħ | 'n | ¥ | Р | r | Ω | Ç | , k | Day |
|------|----------|-------------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|-------|--------|--------|--------|----------------|---------------|------|
| T 1 | 8 44 11 | 12≈ 7'47 | 8 Ω 46 | 21≈40 | 29≈53 | 17) 54 | 21°R39 | 1°R59 | 28 Y 33 | 28≈49 | 16°R56 | 26°R 3 | 2595 9 | 8 Y 50 | 29 Y 6 | T 1 |
| W 2 | 8 48 8 | 13° 8'33 | 23°14 | 23°27 | 1 ∺ 7 | 18°40 | 21 Mp 34 | 1 m 55 | 28°34 | 28°51 | 16955 | 2695 2 | 25° 6 | 8°57 | 29° 8 | W 2 |
| T 3 | 8 52 4 | 14° 9'19 | 7 m 55 | 25°13 | 2°22 | 19°26 | 21°29 | 1°51 | 28°36 | 28°53 | 16°54 | 26° 0 | 25° 3 | 9° 3 | 29° 9 | T 3 |
| F 4 | 8 56 1 | 15°10'03 | 22°39 | 27° 0 | 3°37 | 20°12 | 21°24 | 1°46 | 28°37 | 28°56 | 16°53 | 25°57 | 25° 0 | 9°10 | 29°11 | F 4 |
| S 5 | 8 59 57 | 16°10'46 | 7 ≏ 21 | 28°45 | 4°52 | 20°58 | 21°19 | 1°42 | 28°39 | 28°58 | 16°52 | 25°55 | 24°57 | 9°17 | 29°12 | S 5 |
| S 6 | 9 3 54 | 17°11'28 | 21°55 | 0) €30 | 6° 7 | 21°44 | 21°14 | 1°37 | 28°40 | 29° 0 | 16°51 | 25°52 | 24°54 | 9°24 | 29°14 | S 6 |
| M 7 | 9 7 5 1 | 18°12'10 | 6 M .14 | 2°13 | 7°21 | 22°30 | 21° 9 | 1°32 | 28°42 | 29° 2 | 16°49 | 25°51 | 24°50 | 9°30 | 29°16 | M 7 |
| T 8 | 9 11 47 | 19°12'50 | 20°17 | 3°54 | 8°36 | 23°16 | 21° 3 | 1°28 | 28°43 | 29° 5 | 16°48 | 25°D50 | 24°47 | 9°37 | 29°18 | T 8 |
| W 9 | 9 15 44 | 20°13'29 | 4 ₹ 3 | 5°34 | 9°51 | 24° 2 | 20°57 | 1°23 | 28°45 | 29° 7 | 16°47 | 25°51 | 24°44 | 9°44 | 29°19 | W 9 |
| T 10 | 9 19 40 | 21°14'07 | 17°32 | 7°10 | 11° 6 | 24°48 | 20°51 | 1°18 | 28°47 | 29° 9 | 16°46 | 25°52 | 24°41 | 9°50 | 29°21 | T 10 |
| F 11 | 9 23 37 | 22°14'43 | 0 ح 45 | 8°44 | 12°20 | 25°34 | 20°45 | 1°14 | 28°49 | 29°11 | 16°45 | 25°54 | 24°38 | 9°57 | 29°23 | F 11 |
| S 12 | 9 27 33 | 23°15'19 | 13°43 | 10°13 | 13°35 | 26°20 | 20°39 | 1° 9 | 28°50 | 29°14 | 16°44 | 25°55 | 24°35 | 10° 4 | 29°25 | S 12 |
| S 13 | 9 31 30 | 24°15'53 | 26°29 | 11°39 | 14°49 | 27° 6 | 20°33 | 1° 4 | 28°52 | 29°16 | 16°43 | 25°R56 | 24°31 | 10°11 | 29°27 | S 13 |
| M14 | 9 35 26 | 25°16'25 | 9≈ 3 | 12°59 | 16° 4 | 27°52 | 20°27 | 0°59 | 28°54 | 29°18 | 16°42 | 25°55 | 24°28 | 10°17 | 29°30 | M14 |
| T 15 | 9 39 23 | 26°16'57 | 21°26 | 14°13 | 17°19 | 28°37 | 20°20 | 0°55 | 28°56 | 29°20 | 16°41 | 25°53 | 24°25 | 10°24 | 29°32 | T 15 |
| W16 | 9 43 20 | 27°17'26 | 3) (40 | 15°21 | 18°33 | 29°23 | 20°14 | 0°50 | 28°58 | 29°23 | 16°40 | 25°49 | 24°22 | 10°31 | 29°34 | W16 |
| T 17 | 9 47 16 | 28°17'54 | 15°46 | 16°22 | 19°48 | oΥ 9 | 20° 7 | 0°45 | 29° 0 | 29°25 | 16°39 | 25°43 | 24°19 | 10°38 | 29°36 | T 17 |
| F 18 | 9 51 13 | 29°18'20 | 27°45 | 17°15 | 21° 2 | 0°54 | 20° 0 | 0°40 | 29° 2 | 29°27 | 16°39 | 25°37 | 24°15 | 10°44 | 29°39 | F 18 |
| S 19 | 9 55 9 | 0 ∺ 18'44 | 9 Ƴ 40 | 18° 0 | 22°17 | 1°40 | 19°53 | 0°35 | 29° 4 | 29°30 | 16°38 | 25°30 | 24°12 | 10°51 | 29°41 | S 19 |
| S 20 | 9 59 6 | 1°19'07 | 21°31 | 18°37 | 23°31 | 2°26 | 19°46 | 0°30 | 29° 6 | 29°32 | 16°37 | 25°24 | 24° 9 | 10°58 | 29°43 | S 20 |
| M21 | 10 3 2 | 2°19'27 | 3 8 23 | 19° 4 | 24°45 | 3°11 | 19°39 | 0°26 | 29° 9 | 29°34 | 16°36 | 25°19 | 24° 6 | 11° 4 | 29°46 | M21 |
| T 22 | 10 6 59 | 3°19'46 | 15°18 | 19°21 | 26° 0 | 3°57 | 19°32 | 0°21 | 29°11 | 29°36 | 16°35 | 25°16 | 24° 3 | 11°11 | 29°48 | T 22 |
| W23 | 10 10 55 | 4°20'02 | 27°22 | 19°R29 | 27°14 | 4°42 | 19°24 | 0°16 | 29°13 | 29°39 | 16°34 | 25°14 | 24° 0 | 11°18 | 29°51 | W23 |
| T 24 | 10 14 52 | 5°20'17 | 9∏39 | 19°27 | 28°28 | 5°28 | 19°17 | 0°11 | 29°15 | 29°41 | 16°33 | 25°D14 | 23°56 | 11°25 | 29°53 | T 24 |
| F 25 | 10 18 49 | 6°20'29 | 22°14 | 19°15 | 29°42 | 6°13 | 19°10 | 0° 6 | 29°18 | 29°43 | 16°33 | 25°15 | 23°53 | 11°31 | 29°56 | F 25 |
| S 26 | 10 22 45 | 7°20'40 | 59910 | 18°55 | 0 Υ 56 | 6°58 | 19° 2 | 0° 2 | 29°20 | 29°45 | 16°32 | 25°16 | 23°50 | 11°38 | 29°59 | S 26 |
| S 27 | 10 26 42 | 8°20'48 | 18°33 | 18°25 | 2°11 | 7°44 | 18°55 | 29 N 57 | 29°23 | 29°48 | 16°31 | 25°R17 | 23°47 | 11°45 | 0 8 1 | S 27 |
| M28 | 10 30 38 | 9°20'55 | 2 Ω 23 | 17°48 | 3°25 | 8°29 | 18°47 | 29°52 | 29°25 | 29°50 | 16°31 | 25°17 | 23°44 | 11°51 | 0° 4 | M28 |
| T 29 | 10 34 35 | 10 ¥ 20′59 | 16 Ω 41 | 17) 4 | 4Υ 39 | 9 Ƴ 14 | 18 m 39 | 29 Ω 47 | 29 Y 28 | 29≈52 | 16930 | 259915 | 239541 | 11 Y 58 | 0 ප 7 | T 29 |

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| Day | Sid.t | 0 | D | ğ | Ŷ | ď | 4 | ħ |)f(| ¥ | Р | ß | Ω | Ç | ę, | Day |
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| W 1 | 10 38 31 | 11) (21'01 | 1 m) 24 | 16°R14 | 5 Υ 53 | 9 Ƴ 59 | 18°R32 | 29°R43 | 29 Y 30 | 29≈54 | 16°R29 | 25°R11 | 23937 | 12 ° 5 | 0810 | W 1 |
| T 2 | 10 42 28 | 12°21'02 | 16°24 | 15) 20 | 7° 7 | 10°44 | 18 M 24 | 29 £ 38 | 29°33 | 29°57 | 169528 | 2595 6 | 23°34 | 12°12 | 0°13 | T 2 |
| F 3 | 10 46 24 | 13°21'00 | 1 ≏ 33 | 14°22 | 8°21 | 11°29 | 18°16 | 29°33 | 29°35 | 29°59 | 16°28 | 24°58 | 23°31 | 12°18 | 0°16 | F 3 |
| S 4 | 10 50 21 | 14°20'56 | 16°41 | 13°23 | 9°34 | 12°14 | 18° 9 | 29°29 | 29°38 | 0 ∺ 1 | 16°27 | 24°51 | 23°28 | 12°25 | 0°19 | S 4 |
| S 5 | 10 54 17 | 15°20'51 | 1 M .38 | 12°23 | 10°48 | 12°59 | 18° 1 | 29°24 | 29°41 | 0° 3 | 16°27 | 24°44 | 23°25 | 12°32 | 0°22 | S 5 |
| M 6 | 10 58 14 | 16°20'44 | 16°16 | 11°24 | 12° 2 | 13°44 | 17°53 | 29°20 | 29°43 | 0° 6 | 16°26 | 24°38 | 23°21 | 12°38 | 0°25 | M 6 |
| T 7 | 11 2 11 | 17°20'36 | 0 ₮ 31 | 10°27 | 13°16 | 14°29 | 17°45 | 29°15 | 29°46 | 0° 8 | 16°26 | 24°35 | 23°18 | 12°45 | 0°28 | T 7 |
| W 8 | 11 6 7 | 18°20'26 | 14°20 | 9°34 | 14°29 | 15°14 | 17°37 | 29°11 | 29°49 | 0°10 | 16°25 | 24°D33 | 23°15 | 12°52 | 0°31 | W 8 |
| T 9 | 11 10 4 | 19°20'14 | 27°45 | 8°45 | 15°43 | 15°59 | 17°30 | 29° 6 | 29°52 | 0°12 | 16°25 | 24°33 | 23°12 | 12°59 | 0°34 | T 9 |
| F 10 | 11 14 0 | 20°20'00 | 10 る 48 | 8° 0 | 16°57 | 16°44 | 17°22 | 29° 2 | 29°54 | 0°14 | 16°24 | 24°34 | 23° 9 | 13° 5 | 0°37 | F 10 |
| S 11 | 11 17 57 | 21°19'45 | 23°32 | 7°21 | 18°10 | 17°28 | 17°14 | 28°58 | 29°57 | 0°17 | 16°24 | 24°R35 | 23° 6 | 13°12 | 0°41 | S 11 |
| S 12 | 11 21 53 | 22°19'28 | 6≈ 2 | 6°48 | 19°24 | 18°13 | 17° 6 | 28°53 | 0 8 0 | 0°19 | 16°23 | 24°34 | 23° 2 | 13°19 | 0°44 | S 12 |
| M13 | 11 25 50 | 23°19'09 | 18°20 | 6°20 | 20°37 | 18°58 | 16°59 | 28°49 | 0° 3 | 0°21 | 16°23 | 24°31 | 22°59 | 13°26 | 0°47 | M13 |
| T 14 | 11 29 46 | 24°18'49 | 0) €30 | 6° 0 | 21°51 | 19°42 | 16°51 | 28°45 | 0° 6 | 0°23 | 16°22 | 24°26 | 22°56 | 13°32 | 0°50 | T 14 |
| W15 | 11 33 43 | 25°18'26 | 12°32 | 5°45 | 23° 4 | 20°27 | 16°43 | 28°41 | 0° 9 | 0°25 | 16°22 | 24°18 | 22°53 | 13°39 | 0°54 | W15 |
| T 16 | 11 37 40 | 26°18'01 | 24°30 | 5°36 | 24°17 | 21°11 | 16°36 | 28°37 | 0°12 | 0°27 | 16°22 | 24° 7 | 22°50 | 13°46 | 0°57 | T 16 |
| F 17 | 11 41 36 | 27°17'35 | 6 Υ 25 | 5°D34 | 25°31 | 21°56 | 16°28 | 28°33 | 0°15 | 0°29 | 16°21 | 23°55 | 22°46 | 13°52 | 1° 1 | F 17 |
| S 18 | 11 45 33 | 28°17'06 | 18°17 | 5°37 | 26°44 | 22°40 | 16°20 | 28°29 | 0°18 | 0°31 | 16°21 | 23°43 | 22°43 | 13°59 | 1° 4 | S 18 |
| S 19 | 11 49 29 | 29°16'35 | 0 8 9 | 5°46 | 27°57 | 23°24 | 16°13 | 28°25 | 0°21 | 0°33 | 16°21 | 23°30 | 22°40 | 14° 6 | 1°8 | S 19 |
| M20 | 11 53 26 | 0 Υ 16'02 | 12° 2 | 6° 0 | 29°10 | 24° 9 | 16° 5 | 28°22 | 0°24 | 0°35 | 16°21 | 23°20 | 22°37 | 14°13 | 1°11 | M20 |
| T 21 | 11 57 22 | 1°15'27 | 23°58 | 6°20 | 0 8 23 | 24°53 | 15°58 | 28°18 | 0°27 | 0°37 | 16°20 | 23°11 | 22°34 | 14°19 | 1°15 | T 21 |
| W22 | 12 1 19 | 2°14'49 | 6 I I 2 | 6°44 | 1°36 | 25°37 | 15°51 | 28°14 | 0°30 | 0°39 | 16°20 | 23° 6 | 22°31 | 14°26 | 1°18 | W22 |
| T 23 | 12 5 15 | 3°14'09 | 18°17 | 7°13 | 2°49 | 26°21 | 15°44 | 28°11 | 0°33 | 0°41 | 16°20 | 23° 2 | 22°27 | 14°33 | 1°22 | T 23 |
| F 24 | 12 9 12 | 4°13'27 | 09୍ଦ47 | 7°46 | 4° 2 | 27° 5 | 15°37 | 28° 7 | 0°37 | 0°43 | 16°20 | 23°D 1 | 22°24 | 14°39 | 1°25 | F 24 |
| S 25 | 12 13 9 | 5°12'43 | 13°38 | 8°24 | 5°15 | 27°49 | 15°30 | 28° 4 | 0°40 | 0°45 | 16°20 | 23° 1 | 22°21 | 14°46 | 1°29 | S 25 |
| S 26 | 12 17 5 | 6°11'56 | 26°52 | 9° 5 | 6°28 | 28°34 | 15°23 | 28° 1 | 0°43 | 0°47 | 16°20 | 23°R 2 | 22°18 | 14°53 | 1°33 | S 26 |
| M27 | 12 21 2 | 7°11'07 | 10 Ω 35 | 9°50 | 7°40 | 29°17 | 15°16 | 27°58 | 0°46 | 0°49 | 16°20 | 23° 1 | 22°15 | 15° 0 | 1°36 | M27 |
| T 28 | 12 24 58 | 8°10'16 | 24°47 | 10°39 | 8°53 | 0 8 1 | 15° 9 | 27°55 | 0°49 | 0°51 | 16°20 | 22°57 | 22°12 | 15° 6 | 1°40 | T 28 |
| W29 | 12 28 55 | 9° 9'22 | 9 ™ 27 | 11°30 | 10° 6 | 0°45 | 15° 2 | 27°52 | 0°53 | 0°53 | 16°D20 | 22°51 | 22° 8 | 15°13 | 1°44 | W29 |
| T 30 | 12 32 51 | 10° 8'26 | 24°31 | 12°25 | 11°18 | 1°29 | 14°56 | 27°49 | 0°56 | 0°55 | 16°20 | 22°43 | 22° 5 | 15°20 | 1°47 | T 30 |
| F 31 | 12 36 48 | 11 ° 7'28 | 9 ≏ 48 | 13 ∺ 23 | 12830 | 2 8 13 | 14 M 50 | 27 Ω 46 | 0 8 59 | 0) € 57 | 16920 | 22933 | 2295 2 | 15 Y 27 | 1851 | F 31 |

Delta T = 21.36 sec Gr

Greg. Calendar

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| Day | Sid.t | 0 | D | ğ | φ | ♂ [™] | 4 | ħ |)Å(| , | Р | U | ಬ | Ç | k _o | Day |
|------|----------|------------------|-----------------|------------------|-----------------|----------------|------------------|----------------|---------------|---------------|-------|--------|--------|----------------|----------------|------|
| S 1 | 12 40 44 | 12 ° 6'27 | 25 ₽ 10 | 14) (24 | 13843 | 2 8 57 | 14°R43 | 27°R43 | 1 8 3 | 0 ∺ 59 | 16920 | 22°R22 | 219559 | 15 Y 33 | 1 8 55 | S 1 |
| S 2 | 12 44 41 | 13° 5'25 | 10ML23 | 15°27 | 14°55 | 3°40 | 14 m) 37 | 27 Ω 40 | 1° 6 | 1° 1 | 16°20 | 229612 | 21°56 | 15°40 | 1°59 | S 2 |
| M 3 | 12 48 38 | 14° 4'21 | 25°17 | 16°33 | 16° 7 | 4°24 | 14°31 | 27°38 | 1° 9 | 1° 2 | 16°20 | 22° 3 | 21°52 | 15°47 | 2° 3 | M 3 |
| T 4 | 12 52 34 | 15° 3'15 | 9 ∡ 146 | 17°41 | 17°20 | 5° 7 | 14°25 | 27°35 | 1°13 | 1° 4 | 16°20 | 21°57 | 21°49 | 15°53 | 2° 6 | T 4 |
| W 5 | 12 56 31 | 16° 2'08 | 23°45 | 18°52 | 18°32 | 5°51 | 14°19 | 27°33 | 1°16 | 1° 6 | 16°20 | 21°54 | 21°46 | 16° 0 | 2°10 | W 5 |
| T 6 | 13 0 27 | 17° 0'59 | 7 ਰ 16 | 20° 4 | 19°44 | 6°34 | 14°14 | 27°31 | 1°19 | 1°8 | 16°20 | 21°52 | 21°43 | 16° 7 | 2°14 | T 6 |
| F 7 | 13 4 24 | 17°59'48 | 20°21 | 21°20 | 20°56 | 7°18 | 14° 8 | 27°28 | 1°23 | 1° 9 | 16°21 | 21°52 | 21°40 | 16°14 | 2°18 | F 7 |
| S 8 | 13 8 20 | 18°58'35 | 3≈ 3 | 22°37 | 22° 8 | 8° 1 | 14° 3 | 27°26 | 1°26 | 1°11 | 16°21 | 21°52 | 21°37 | 16°20 | 2°22 | S 8 |
| S 9 | 13 12 17 | 19°57'20 | 15°27 | 23°56 | 23°19 | 8°44 | 13°58 | 27°24 | 1°29 | 1°13 | 16°21 | 21°50 | 21°33 | 16°27 | 2°26 | S 9 |
| M10 | 13 16 13 | 20°56'04 | 27°37 | 25°17 | 24°31 | 9°28 | 13°53 | 27°22 | 1°33 | 1°14 | 16°21 | 21°47 | 21°30 | 16°34 | 2°30 | M10 |
| T 11 | 13 20 10 | 21°54'46 | 9) 39 | 26°40 | 25°43 | 10°11 | 13°48 | 27°20 | 1°36 | 1°16 | 16°22 | 21°40 | 21°27 | 16°40 | 2°34 | T 11 |
| W12 | 13 24 7 | 22°53'26 | 21°34 | 28° 5 | 26°55 | 10°54 | 13°43 | 27°19 | 1°40 | 1°17 | 16°22 | 21°31 | 21°24 | 16°47 | 2°37 | W12 |
| T 13 | 13 28 3 | 23°52'04 | 3 ℃ 27 | 29°32 | 28° 6 | 11°37 | 13°38 | 27°17 | 1°43 | 1°19 | 16°22 | 21°19 | 21°21 | 16°54 | 2°41 | T 13 |
| F 14 | 13 32 0 | 24°50'41 | 15°18 | 1 Υ 1 | 29°18 | 12°20 | 13°34 | 27°16 | 1°47 | 1°21 | 16°23 | 21° 5 | 21°17 | 17° 1 | 2°45 | F 14 |
| S 15 | 13 35 56 | 25°49'15 | 27°11 | 2°31 | 0П29 | 13° 3 | 13°30 | 27°14 | 1°50 | 1°22 | 16°23 | 20°51 | 21°14 | 17° 7 | 2°49 | S 15 |
| S 16 | 13 39 53 | 26°47'48 | 9 8 5 | 4° 3 | 1°40 | 13°46 | 13°26 | 27°13 | 1°53 | 1°24 | 16°23 | 20°37 | 21°11 | 17°14 | 2°53 | S 16 |
| M17 | 13 43 49 | 27°46'19 | 21° 2 | 5°37 | 2°52 | 14°29 | 13°22 | 27°12 | 1°57 | 1°25 | 16°24 | 20°24 | 21° 8 | 17°21 | 2°57 | M17 |
| T 18 | 13 47 46 | 28°44'48 | 3 II 5 | 7°13 | 4° 3 | 15°12 | 13°18 | 27°11 | 2° 0 | 1°26 | 16°24 | 20°14 | 21° 5 | 17°28 | 3° 1 | T 18 |
| W19 | 13 51 42 | 29°43'14 | 15°14 | 8°50 | 5°14 | 15°55 | 13°14 | 27°10 | 2° 4 | 1°28 | 16°25 | 20° 7 | 21° 2 | 17°34 | 3° 5 | W19 |
| T 20 | 13 55 39 | 0 8 41'39 | 27°34 | 10°30 | 6°25 | 16°38 | 13°11 | 27° 9 | 2° 7 | 1°29 | 16°25 | 20° 3 | 20°58 | 17°41 | 3° 9 | T 20 |
| F 21 | 13 59 35 | 1°40'02 | 1095 6 | 12°10 | 7°36 | 17°21 | 13° 8 | 27° 8 | 2°11 | 1°31 | 16°26 | 20° 1 | 20°55 | 17°48 | 3°13 | F 21 |
| S 22 | 14 3 32 | 2°38'22 | 22°56 | 13°53 | 8°47 | 18° 3 | 13° 4 | 27° 7 | 2°14 | 1°32 | 16°27 | 20°D 1 | 20°52 | 17°54 | 3°17 | S 22 |
| S 23 | 14 7 29 | 3°36'41 | 6 N 6 | 15°38 | 9°57 | 18°46 | 13° 2 | 27° 7 | 2°18 | 1°33 | 16°27 | 20°R 1 | 20°49 | 18° 1 | 3°21 | S 23 |
| M24 | 14 11 25 | 4°34'57 | 19°41 | 17°24 | 11° 8 | 19°29 | 12°59 | 27° 6 | 2°21 | 1°35 | 16°28 | 20° 0 | 20°46 | 18° 8 | 3°25 | M24 |
| T 25 | 14 15 22 | 5°33'11 | 3 m 42 | 19°12 | 12°19 | 20°11 | 12°56 | 27° 6 | 2°25 | 1°36 | 16°28 | 19°58 | 20°43 | 18°15 | 3°29 | T 25 |
| W26 | 14 19 18 | 6°31'23 | 18°10 | 21° 2 | 13°29 | 20°54 | 12°54 | 27° 6 | 2°28 | 1°37 | 16°29 | 19°53 | 20°39 | 18°21 | 3°33 | W26 |
| T 27 | 14 23 15 | 7°29'33 | 3 ₾ 1 | 22°53 | 14°39 | 21°36 | 12°52 | 27° 5 | 2°31 | 1°38 | 16°30 | 19°45 | 20°36 | 18°28 | 3°37 | T 27 |
| F 28 | 14 27 11 | 8°27'41 | 18°10 | 24°46 | 15°50 | 22°18 | 12°50 | 27°D 5 | 2°35 | 1°39 | 16°30 | 19°36 | 20°33 | 18°35 | 3°41 | F 28 |
| S 29 | 14 31 8 | 9°25'48 | 3M26 | 26°41 | 17° 0 | 23° 1 | 12°48 | 27° 5 | 2°38 | 1°41 | 16°31 | 19°26 | 20°30 | 18°41 | 3°45 | S 29 |
| S 30 | 14 35 4 | 10823'52 | 18 M .38 | 28 Y 38 | 18 II 10 | 23 8 43 | 12 m /46 | 27 0 6 | 2 8 42 | 1 ∺ 42 | 16932 | 199316 | 20927 | 18 Y 48 | 3 8 49 | S 30 |

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| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)∤(| ¥ | В | ₽. | u | ţ | ۸٥ | Day |
|--------------|----------------------|----------------------|------------------------|---------------|----------------|----------------|----------------|--------------------|---------------|---------------|----------------|-----------------|----------------|----------------|---------------|--------------|
| M 1 | 14 39 1 | 11821'55 | 3 ₹ 36 | 0 8 37 | 19 Ⅱ 20 | 24 8 25 | 12°R45 | 27 Ω 6 | 2 8 45 | 1) 43 | 16933 | 19°R 8 | 209523 | 18 Y 55 | 3 8 53 | M 1 |
| T 2 | 14 42 58 | 12°19'57 | 18°12 | 2°37 | 20°30 | 25° 8 | 12 m 43 | 27° 6 | 2°49 | 1°44 | 16°33 | 1995 3 | 20°20 | 19° 2 | 3°57 | T 2 |
| W 3 | 14 46 54 | 13°17'57 | 2 る 20 | 4°39 | 21°39 22°49 | 25°50 | 12°42 | 27° 7 | 2°52 | 1°45 | 16°34 | 18°59 | 20°17 | 19° 8 | 4° 1 4° 5 | W 3 |
| T 4 F 5 | 14 50 51 14 54 47 | 14°15'56 15°13'53 | 15°58 29° 9 | 6°42 8°47 | 22°49 23°59 | 26°32 27°14 | 12°41 12°41 | 27° 7 27° 8 | 2°55 2°59 | 1°46 1°47 | 16°35 16°36 | 18°D58 18°58 | 20°14 20°11 | 19°15 19°22 | 4° 5 4° 8 | T 4 F 5 |
| S 6 | 14 54 47 | 15 13 33 16°11'49 | 11 ≈ 55 | 10°54 | 25° 8 | 27°56 | 12°40 | 27° 9 | 3° 2 | 1°48 | 16°37 | 18°R59 | 20° 8 | 19°22 | 4°12 | S 6 |
| S 7 | 15 2 40 | 17° 9'44 | 24°21 | 13° 1 | 26°17 | 28°38 | 12°40 | 27°10 | 3° 6 | 1°49 | 16°38 | 18°59 | 20° 4 | 19°35 | 4°16 | S 7 |
| M 8 | 15 6 37 | 18° 7'37 | 6) €31 | 15°10 | 27°26 | 29°20 | 12°40 | 27°11 | 3° 9 | 1°49 | 16°39 | 18°57 | 20° 1 | 19°42 | 4°20 | M 8 |
| T 9 | 15 10 33 | 19° 5'29 | 18°31 | 17°20 | 28°36 | 0Π 2 | 12°D40 | 27°12 | 3°12 | 1°50 | 16°40 | 18°53 | 19°58 | 19°49 | 4°24 | T 9 |
| W10 | 15 14 30 | 20° 3'20 | 0 Υ 24 | 19°30 | 29°45 | 0°44 | 12°40 | 27°13 | 3°16 | 1°51 | 16°41 | 18°47 | 19°55 | 19°55 | 4°28 | W10 |
| T 11 | 15 18 27 | 21° 1'10 | 12°15 | 21°41 | 0ഇ53 | 1°25 | 12°40 | 27°14 | 3°19 | 1°52 | 16°41 | 18°38 | 19°52 | 20° 2 | 4°32 | T 11 |
| F 12 | 15 22 23 | 21°58'58 | 24° 7 | 23°53 | 2° 2 | 2° 7 | 12°41 | 27°16 | 3°22 | 1°53 | 16°42 | 18°28 | 19°49 | 20° 9 | 4°36 | F 12 |
| S 13 | 15 26 20 | 22°56'45 | 6 8 1 | 26° 4 | 3°11 | 2°49 | 12°41 | 27°17 | 3°26 | 1°53 | 16°43 | 18°18 | 19°45 | 20°16 | 4°39 | S 13 |
| S 14 | 15 30 16 | 23°54'31 | 18° 1 | 28°15 | 4°19 | 3°31 | 12°42 | 27°19 | 3°29 | 1°54 | 16°45 | 18° 7 | 19°42 | 20°22 | 4°43 | S 14 |
| M15 | 15 34 13 | 24°52'15 | 0 I 6 | 0∏25 | 5°28 | 4°12 | 12°43 | 27°21 | 3°32 | 1°55 | 16°46 | 17°58 | 19°39 | 20°29 | 4°47 | M15 |
| T 16 | 15 38 9 | 25°49'58 | 12°19 | 2°35 | 6°36 | 4°54 | 12°45 | 27°23 | 3°35 | 1°55 | 16°47 | 17°51 | 19°36 | 20°36 | 4°51 | T 16 |
| W17 | 15 42 6 | 26°47'40 | 24°40 | 4°43 6°50 | 7°44 8°52 | 5°35 | 12°46 | 27°25 | 3°39 3°42 | 1°56 | 16°48 | 17°46 | 19°33 | 20°43 | 4°55 4°58 | W17 |
| T 18 F 19 | 15 46 2 15 49 59 | 27°45'21 28°43'00 | 7 © 12 19°55 | 8°56 | 10° 0 | 6°17 6°58 | 12°48 12°49 | 27°27 27°29 | 3°42 3°45 | 1°56 1°57 | 16°49 16°50 | 17°44 17°D43 | 19°29 19°26 | 20°49 20°56 | 4°58 5° 2 | T 18 F 19 |
| S 20 | 15 53 56 | 29°40'37 | 2 0 53 | 11° 0 | 11° 7 | 7°40 | 12°51 | 27°31 | 3°48 | 1°57 | 16°51 | 17°44 | 19°23 | 20°30 21°3 | 5° 6 | S 20 |
| S 21 | 15 57 52 | о∏38'13 | 16° 8 | 13° 1 | 12°15 | 8°21 | 12°53 | 27°33 | 3°52 | 1°58 | 16°52 | 17°45 | 19°20 | 21° 9 | 5°10 | S 21 |
| M22 | 16 1 49 | 1°35'47 | 29°42 | 15° 1 | 13°22 | 9° 2 | 12°56 | 27°36 | 3°55 | 1°58 | 16°53 | 17°R46 | 19°17 | 21°16 | 5°13 | M22 |
| T 23 | 16 5 45 | 2°33'20 | 13 Mp 36 | 16°58 | 14°30 | 9°44 | 12°58 | 27°38 | 3°58 | 1°59 | 16°55 | 17°45 | 19°14 | 21°23 | 5°17 | T 23 |
| W24 | 16 9 42 | 3°30'52 | 27°52 | 18°53 | 15°37 | 10°25 | 13° 1 | 27°41 | 4° 1 | 1°59 | 16°56 | 17°43 | 19°10 | 21°30 | 5°21 | W24 |
| T 25 | 16 13 38 | 4°28'22 | 12 ≏ 26 | 20°45 | 16°43 | 11° 6 | 13° 4 | 27°44 | 4° 4 | 1°59 | 16°57 | 17°39 | 19° 7 | 21°36 | 5°24 | T 25 |
| F 26 | 16 17 35 | 5°25'50 | 27°14 | 22°34 | 17°50 | 11°47 | 13° 7 | 27°46 | 4° 7 | 1°59 | 16°58 | 17°34 | 19° 4 | 21°43 | 5°28 | F 26 |
| S 27 | 16 21 31 | 6°23'18 | 12 M .10 | 24°21 | 18°57 | 12°28 | 13°10 | 27°49 | 4°10 | 2° 0 | 17° 0 | 17°27 | 19° 1 | 21°50 | 5°31 | S 27 |
| S 28 | 16 25 28 | 7°20'44 | 27° 5 | 26° 6 | 20° 3 | 13° 9 | 13°13 | 27°52 | 4°13 | 2° 0 | 17° 1 | 17°22 | 18°58 | 21°56 | 5°35 | S 28 |
| M29 | 16 29 25 | 8°18'10 | 11 .7 51 | 27°47 | 21° 9 | 13°50 | 13°17 | 27°55 | 4°16 | 2° 0 | 17° 2 | 17°17 | 18°55 | 22° 3 | 5°38 | M29 |
| T 30 | 16 33 21 | 9°15'34 | 26°20 | 29°26 | 22°15 | 14°31 | 13°20 | 27°59 | 4°19 | 2° 0 | 17° 3 | 17°14 | 18°51 | 22°10 | 5°42 | T 30 |
| W31 | 16 37 18 | 10 Ⅱ 12'58 | 10 ට 26 | 199 2 | 23921 | 15 Ⅱ 12 | 13 m 24 | 28 \Omega 2 | 4822 | 2 ∺ 0 | 1795 5 | 179512 | 18948 | 22 Y 17 | 5 8 45 | W31 |

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|------|----------|-------------------|----------------|--------|-----------------|----------------|----------------|----------------|---------------|-----------------|--------|--------|--------|----------------|---------------|------|
| T 1 | 16 41 14 | 11 Ⅱ 10′21 | 24궁 6 | 2935 | 249527 | 15 Ⅱ 53 | 13 m 28 | 28 N 5 | 4 8 25 | 2) 1 | 1795 6 | 17°D12 | 189645 | 22 Υ 23 | 5 8 49 | T 1 |
| F 2 | 16 45 11 | 12° 7'43 | 7≈20 | 4° 5 | 25°32 | 16°34 | 13°32 | 28° 9 | 4°28 | 2° 1 | 17° 7 | 179513 | 18°42 | 22°30 | 5°52 | F 2 |
| S 3 | 16 49 7 | 13° 5'05 | 20°11 | 5°32 | 26°37 | 17°15 | 13°37 | 28°12 | 4°31 | 2°R 1 | 17° 9 | 17°15 | 18°39 | 22°37 | 5°55 | S 3 |
| S 4 | 16 53 4 | 14° 2'26 | 2) (41 | 6°57 | 27°42 | 17°55 | 13°41 | 28°16 | 4°34 | 2° 1 | 17°10 | 17°16 | 18°35 | 22°44 | 5°59 | S 4 |
| M 5 | 16 57 0 | 14°59'46 | 14°54 | 8°18 | 28°47 | 18°36 | 13°46 | 28°20 | 4°37 | 2° 1 | 17°11 | 17°R17 | 18°32 | 22°50 | 6° 2 | M 5 |
| T 6 | 17 0 57 | 15°57'06 | 26°56 | 9°37 | 29°52 | 19°17 | 13°51 | 28°23 | 4°39 | 2° 0 | 17°13 | 17°16 | 18°29 | 22°57 | 6° 5 | T 6 |
| W 7 | 17 4 54 | 16°54'26 | 8 Y 51 | 10°52 | 0 Ω 56 | 19°57 | 13°55 | 28°27 | 4°42 | 2° 0 | 17°14 | 17°14 | 18°26 | 23° 4 | 6° 9 | W 7 |
| T 8 | 17 8 50 | 17°51'45 | 20°43 | 12° 5 | 2° 0 | 20°38 | 14° 1 | 28°31 | 4°45 | 2° 0 | 17°16 | 17°11 | 18°23 | 23°10 | 6°12 | T 8 |
| F 9 | 17 12 47 | 18°49'03 | 2 8 36 | 13°14 | 3° 4 | 21°18 | 14° 6 | 28°35 | 4°48 | 2° 0 | 17°17 | 17° 7 | 18°20 | 23°17 | 6°15 | F 9 |
| S 10 | 17 16 43 | 19°46'21 | 14°34 | 14°20 | 4° 8 | 21°59 | 14°11 | 28°40 | 4°50 | 2° 0 | 17°18 | 17° 2 | 18°16 | 23°24 | 6°18 | S 10 |
| S 11 | 17 20 40 | 20°43'39 | 26°39 | 15°23 | 5°11 | 22°39 | 14°17 | 28°44 | 4°53 | 2° 0 | 17°20 | 16°58 | 18°13 | 23°31 | 6°21 | S 11 |
| M12 | 17 24 36 | 21°40'57 | 8Ⅲ54 | 16°22 | 6°14 | 23°20 | 14°22 | 28°48 | 4°56 | 1°59 | 17°21 | 16°54 | 18°10 | 23°37 | 6°24 | M12 |
| T 13 | 17 28 33 | 22°38'13 | 21°20 | 17°19 | 7°17 | 24° 0 | 14°28 | 28°52 | 4°58 | 1°59 | 17°23 | 16°51 | 18° 7 | 23°44 | 6°27 | T 13 |
| W14 | 17 32 29 | 23°35'30 | 3958 | 18°11 | 8°20 | 24°41 | 14°34 | 28°57 | 5° 1 | 1°59 | 17°24 | 16°49 | 18° 4 | 23°51 | 6°30 | W14 |
| T 15 | 17 36 26 | 24°32'46 | 16°48 | 19° 0 | 9°22 | 25°21 | 14°40 | 29° 1 | 5° 3 | 1°58 | 17°26 | 16°D48 | 18° 1 | 23°58 | 6°33 | T 15 |
| F 16 | 17 40 23 | 25°30'01 | 29°51 | 19°45 | 10°24 | 26° 1 | 14°47 | 29° 6 | 5° 6 | 1°58 | 17°27 | 16°49 | 17°57 | 24° 4 | 6°36 | F 16 |
| S 17 | 17 44 19 | 26°27'16 | 13 0 7 | 20°27 | 11°26 | 26°42 | 14°53 | 29°11 | 5° 8 | 1°58 | 17°29 | 16°50 | 17°54 | 24°11 | 6°39 | S 17 |
| S 18 | 17 48 16 | 27°24'30 | 26°36 | 21° 4 | 12°27 | 27°22 | 14°59 | 29°16 | 5°11 | 1°57 | 17°30 | 16°51 | 17°51 | 24°18 | 6°42 | S 18 |
| M19 | 17 52 12 | 28°21'44 | 10 m 20 | 21°37 | 13°28 | 28° 2 | 15° 6 | 29°20 | 5°13 | 1°57 | 17°32 | 16°53 | 17°48 | 24°24 | 6°45 | M19 |
| T 20 | 17 56 9 | 29°18'56 | 24°17 | 22° 7 | 14°29 | 28°42 | 15°13 | 29°25 | 5°15 | 1°56 | 17°33 | 16°R53 | 17°45 | 24°31 | 6°48 | T 20 |
| W21 | 18 0 5 | 0916'09 | 8 亞 26 | 22°31 | 15°30 | 29°22 | 15°20 | 29°30 | 5°18 | 1°56 | 17°35 | 16°53 | 17°41 | 24°38 | 6°50 | W21 |
| T 22 | 18 4 2 | 1°13'20 | 22°46 | 22°52 | 16°30 | 0ණ 2 | 15°27 | 29°35 | 5°20 | 1°55 | 17°36 | 16°52 | 17°38 | 24°45 | 6°53 | T 22 |
| F 23 | 18 7 59 | 2°10'32 | 7 M ₊13 | 23° 8 | 17°30 | 0°42 | 15°34 | 29°41 | 5°22 | 1°54 | 17°38 | 16°51 | 17°35 | 24°51 | 6°56 | F 23 |
| S 24 | 18 11 55 | 3° 7'42 | 21°44 | 23°20 | 18°29 | 1°22 | 15°41 | 29°46 | 5°24 | 1°54 | 17°39 | 16°49 | 17°32 | 24°58 | 6°58 | S 24 |
| S 25 | 18 15 52 | 4° 4'53 | 6 ₹ 13 | 23°26 | 19°28 | 2° 2 | 15°49 | 29°51 | 5°27 | 1°53 | 17°41 | 16°48 | 17°29 | 25° 5 | 7° 1 | S 25 |
| M26 | 18 19 48 | 5° 2'03 | 2 <u>0</u> °35 | 23°R29 | 20°27 | 2°42 | 15°56 | 29°56 | 5°29 | 1°52 | 17°43 | 16°46 | 17°26 | 25°11 | 7° 3 | M26 |
| T 27 | 18 23 45 | 5°59'13 | 4 ろ 43 | 23°26 | 21°25 | 3°22 | 16° 4 | 0Mg 2 | 5°31 | 1°52 | 17°44 | 16°46 | 17°22 | 25°18 | 7° 6 | T 27 |
| W28 | 18 27 41 | 6°56'24 | 18°35 | 23°19 | 22°23 | 4° 2 | 16°12 | 0° 7 | 5°33 | 1°51 | 17°46 | 16°D46 | 17°19 | 25°25 | 7° 8 | W28 |
| T 29 | 18 31 38 | 7°53'34 | 2≈ 7 | 23° 8 | 23°20 | 4°42 | 16°20 | 0°13 | 5°35 | 1°50 | 17°47 | 16°46 | 17°16 | 25°32 | 7°11 | T 29 |
| F 30 | 18 35 34 | 8950'44 | 15≈18 | 22952 | 24 Ω 17 | 59521 | 16 M 28 | 0 m /18 | 5 8 37 | 1) (49 | 179549 | 169346 | 179513 | 25 Y 38 | 7 8 13 | F 30 |

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| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)∤(| ħ | Р | N. | v | Ç | Ş, | Day |
|------|----------|------------------|----------------|--------|-----------------|--------------|----------------|---------------|---------------|-----------------|--------|--------|--------|----------------|---------------|------|
| S 1 | 18 39 31 | 99547'54 | 28≈ 8 | 22°R32 | 25 Ω 14 | 6 9 1 | 16 M 36 | 0 m 24 | 5 8 39 | 1°R49 | 179550 | 16947 | 179510 | 25 Y 45 | 7 8 15 | S 1 |
| S 2 | 18 43 28 | 10°45'05 | 10 ∺ 39 | 2295 8 | 26°10 | 6°41 | 16°44 | 0°30 | 5°41 | 1) (48 | 17°52 | 16°48 | 17° 7 | 25°52 | 7°18 | S 2 |
| M 3 | 18 47 24 | 11°42'16 | 22°55 | 21°40 | 27° 5 | 7°20 | 16°53 | 0°36 | 5°43 | 1°47 | 17°54 | 16°48 | 17° 3 | 25°59 | 7°20 | M 3 |
| T 4 | 18 51 21 | 12°39'27 | 4 Υ 59 | 21° 9 | 28° 0 | 8° 0 | 17° 1 | 0°41 | 5°44 | 1°46 | 17°55 | 16°48 | 17° 0 | 26° 5 | 7°22 | T 4 |
| W 5 | 18 55 17 | 13°36'39 | 16°55 | 20°35 | 28°55 | 8°40 | 17°10 | 0°47 | 5°46 | 1°45 | 17°57 | 16°R49 | 16°57 | 26°12 | 7°24 | W 5 |
| T 6 | 18 59 14 | 14°33'51 | 28°48 | 19°59 | 29°49 | 9°19 | 17°18 | 0°53 | 5°48 | 1°44 | 17°58 | 16°48 | 16°54 | 26°19 | 7°26 | T 6 |
| F 7 | 19 3 10 | 15°31'04 | 10843 | 19°21 | 0 Mp 42 | 9°59 | 17°27 | 0°59 | 5°50 | 1°43 | 18° 0 | 16°48 | 16°51 | 26°25 | 7°28 | F 7 |
| S 8 | 19 7 7 | 16°28'17 | 22°43 | 18°42 | 1°35 | 10°38 | 17°36 | 1° 5 | 5°51 | 1°42 | 18° 2 | 16°D48 | 16°47 | 26°32 | 7°30 | S 8 |
| S 9 | 19 11 3 | 17°25'31 | 4 ∏ 54 | 18° 3 | 2°27 | 11°18 | 17°45 | 1°12 | 5°53 | 1°41 | 18° 3 | 16°48 | 16°44 | 26°39 | 7°32 | S 9 |
| M10 | 19 15 0 | 18°22'45 | 17°16 | 17°24 | 3°19 | 11°57 | 17°54 | 1°18 | 5°54 | 1°40 | 18° 5 | 16°48 | 16°41 | 26°46 | 7°34 | M10 |
| T 11 | 19 18 57 | 19°20'00 | 29°54 | 16°45 | 4°10 | 12°37 | 18° 4 | 1°24 | 5°56 | 1°39 | 18° 6 | 16°49 | 16°38 | 26°52 | 7°36 | T 11 |
| W12 | 19 22 53 | 20°17'16 | 125649 | 16° 9 | 5° 0 | 13°16 | 18°13 | 1°30 | 5°57 | 1°38 | 18° 8 | 16°R49 | 16°35 | 26°59 | 7°37 | W12 |
| T 13 | 19 26 50 | 21°14'32 | 26° 0 | 15°34 | 5°50 | 13°55 | 18°22 | 1°37 | 5°59 | 1°37 | 18°10 | 16°49 | 16°32 | 27° 6 | 7°39 | T 13 |
| F 14 | 19 30 46 | 22°11'48 | 9 Ω 27 | 15° 2 | 6°39 | 14°35 | 18°32 | 1°43 | 6° 0 | 1°35 | 18°11 | 16°48 | 16°28 | 27°12 | 7°41 | F 14 |
| S 15 | 19 34 43 | 23° 9'05 | 23° 8 | 14°34 | 7°27 | 15°14 | 18°42 | 1°50 | 6° 1 | 1°34 | 18°13 | 16°48 | 16°25 | 27°19 | 7°42 | S 15 |
| S 16 | 19 38 39 | 24° 6'22 | 7Mp 2 | 14°10 | 8°15 | 15°53 | 18°51 | 1°56 | 6° 3 | 1°33 | 18°14 | 16°47 | 16°22 | 27°26 | 7°44 | S 16 |
| M17 | 19 42 36 | 25° 3'39 | 21° 5 | 13°51 | 9° 1 | 16°32 | 19° 1 | 2° 3 | 6° 4 | 1°32 | 18°16 | 16°46 | 16°19 | 27°33 | 7°45 | M17 |
| T 18 | 19 46 32 | 26° 0'57 | 5 Ω 15 | 13°36 | 9°47 | 17°12 | 19°11 | 2° 9 | 6° 5 | 1°30 | 18°18 | 16°45 | 16°16 | 27°39 | 7°47 | T 18 |
| W19 | 19 50 29 | 26°58'15 | 19°28 | 13°26 | 10°32 | 17°51 | 19°21 | 2°16 | 6° 6 | 1°29 | 18°19 | 16°45 | 16°13 | 27°46 | 7°48 | W19 |
| T 20 | 19 54 26 | 27°55'33 | 3 M .43 | 13°D22 | 11°16 | 18°30 | 19°31 | 2°22 | 6° 7 | 1°28 | 18°21 | 16°D45 | 16° 9 | 27°53 | 7°50 | T 20 |
| F 21 | 19 58 22 | 28°52'52 | 17°56 | 13°24 | 11°59 | 19° 9 | 19°41 | 2°29 | 6° 8 | 1°27 | 18°22 | 16°45 | 16° 6 | 28° 0 | 7°51 | F 21 |
| S 22 | 20 2 19 | 29°50'11 | 2 ₹ 5 | 13°32 | 12°42 | 19°48 | 19°51 | 2°36 | 6° 9 | 1°25 | 18°24 | 16°46 | 16° 3 | 28° 6 | 7°52 | S 22 |
| S 23 | 20 6 15 | 0 Ω 47'31 | 16° 7 | 13°45 | 13°23 | 20°27 | 20° 2 | 2°43 | 6°10 | 1°24 | 18°25 | 16°47 | 16° 0 | 28°13 | 7°53 | S 23 |
| M24 | 20 10 12 | 1°44'51 | 0ට 1 | 14° 5 | 14° 3 | 21° 6 | 20°12 | 2°50 | 6°11 | 1°23 | 18°27 | 16°48 | 15°57 | 28°20 | 7°54 | M24 |
| T 25 | 20 14 8 | 2°42'12 | 13°43 | 14°31 | 14°42 | 21°45 | 20°23 | 2°56 | 6°12 | 1°21 | 18°29 | 16°R49 | 15°53 | 28°26 | 7°55 | T 25 |
| W26 | 20 18 5 | 3°39'34 | 27°13 | 15° 3 | 15°20 | 22°24 | 20°33 | 3° 3 | 6°13 | 1°20 | 18°30 | 16°48 | 15°50 | 28°33 | 7°56 | W26 |
| T 27 | 20 22 1 | 4°36'57 | 10≈28 | 15°42 | 15°56 | 23° 3 | 20°44 | 3°10 | 6°14 | 1°18 | 18°32 | 16°47 | 15°47 | 28°40 | 7°57 | T 27 |
| F 28 | 20 25 58 | 5°34'20 | 23°26 | 16°27 | 16°32 | 23°42 | 20°55 | 3°17 | 6°14 | 1°17 | 18°33 | 16°45 | 15°44 | 28°47 | 7°58 | F 28 |
| S 29 | 20 29 55 | 6°31'45 | 6 ∺ 9 | 17°17 | 17° 6 | 24°21 | 21° 5 | 3°24 | 6°15 | 1°16 | 18°35 | 16°43 | 15°41 | 28°53 | 7°59 | S 29 |
| S 30 | 20 33 51 | 7°29'10 | 18°37 | 18°14 | 17°39 | 25° 0 | 21°16 | 3°31 | 6°16 | 1°14 | 18°36 | 16°40 | 15°38 | 29° 0 | 8° 0 | S 30 |
| M31 | 20 37 48 | 8 Ω 26'37 | 0 Υ 51 | 199516 | 18 M y11 | 25938 | 21 Mp 27 | 3 Mp 38 | 6 8 16 | 1 米 13 | 18938 | 16936 | 15934 | 29 Υ 7 | 8 8 1 | M31 |

Delta T = 21.18 sec

Greg. Calendar

AUGUST 1684 GC 00:00 UT

| Day | Sid.t | 0 | 7 | · | Ŷ | σ | 4 | η | ₩. | # | P | 8.3 | 83 | ţ | δ | Day |
|------|----------|--------------------|-----------------|------------------|-----------------|----------------|----------------|---------------|---------------|---------------|--------|--------|-------|----------------|---------------|------|
| T 1 | 20 41 44 | 9 Ω 24'04 | 12 Y 55 | 20925 | 18 m /41 | 269517 | 21 m/38 | 3 Mp 46 | 6 8 17 | 1°R11 | 18939 | 16°R34 | 15931 | 29 Υ 13 | 8 8 1 | T 1 |
| W 2 | 20 45 41 | 10°21'33 | 24°51 | 21°38 | 19° 9 | 26°56 | 21°49 | 3°53 | 6°17 | 1) 10 | 18°41 | 16932 | 15°28 | 29°20 | 8° 2 | W 2 |
| T 3 | 20 49 37 | 11°19'04 | 6 8 44 | 22°58 | 19°36 | 27°35 | 22° 1 | 4° 0 | 6°17 | 1°8 | 18°42 | 16°D31 | 15°25 | 29°27 | 8° 2 | T 3 |
| F 4 | 20 53 34 | 12°16'36 | 18°38 | 24°22 | 20° 2 | 28°13 | 22°12 | 4° 7 | 6°18 | 1° 7 | 18°44 | 16°31 | 15°22 | 29°34 | 8° 3 | F 4 |
| S 5 | 20 57 30 | 13°14'09 | 0Д38 | 25°51 | 20°26 | 28°52 | 22°23 | 4°14 | 6°18 | 1° 5 | 18°45 | 16°32 | 15°18 | 29°40 | 8° 3 | S 5 |
| S 6 | 21 1 27 | 14°11'44 | 12°50 | 27°25 | 20°48 | 29°31 | 22°34 | 4°22 | 6°18 | 1° 3 | 18°47 | 16°33 | 15°15 | 29°47 | 8° 4 | S 6 |
| M 7 | 21 5 24 | 15° 9'20 | 25°16 | 29° 3 | 21° 9 | 0Ω9 | 22°46 | 4°29 | 6°19 | 1° 2 | 18°48 | 16°35 | 15°12 | 29°54 | 8° 4 | M 7 |
| T 8 | 21 9 20 | 16° 6'57 | 895 1 | 0 Ω 45 | 21°28 | 0°48 | 22°57 | 4°36 | 6°19 | 1° 0 | 18°50 | 16°36 | 15° 9 | 0 ප 1 | 8° 4 | T 8 |
| W 9 | 21 13 17 | 17° 4'36 | 21° 7 | 2°31 | 21°44 | 1°27 | 23° 9 | 4°43 | 6°19 | 0°59 | 18°51 | 16°R36 | 15° 6 | 0° 7 | 8° 4 | W 9 |
| T 10 | 21 17 13 | 18° 2'17 | 4Ω36 | 4°20 | 21°59 | 2° 5 | 23°21 | 4°51 | 6°19 | 0°57 | 18°53 | 16°35 | 15° 3 | 0°14 | 8° 4 | T 10 |
| F 11 | 21 21 10 | 18°59'58 | 18°26 | 6°11 | 22°12 | 2°44 | 23°32 | 4°58 | 6°R19 | 0°56 | 18°54 | 16°32 | 14°59 | 0°21 | 8° 4 | F 11 |
| S 12 | 21 25 6 | 19°57'41 | 2 m 34 | 8° 5 | 22°23 | 3°22 | 23°44 | 5° 6 | 6°19 | 0°54 | 18°55 | 16°28 | 14°56 | 0°27 | 8°R 4 | S 12 |
| S 13 | 21 29 3 | 20°55'25 | 16°56 | 10° 1 | 22°32 | 4° 1 | 23°56 | 5°13 | 6°19 | 0°52 | 18°57 | 16°23 | 14°53 | 0°34 | 8° 4 | S 13 |
| M14 | 21 32 59 | 21°53'11 | 1 ≏ 25 | 11°59 | 22°39 | 4°39 | 24° 8 | 5°20 | 6°19 | 0°51 | 18°58 | 16°18 | 14°50 | 0°41 | 8° 4 | M14 |
| T 15 | 21 36 56 | 22°50'57 | 15°57 | 13°57 | 22°43 | 5°18 | 24°19 | 5°28 | 6°19 | 0°49 | 19° 0 | 16°14 | 14°47 | 0°48 | 8° 4 | T 15 |
| W16 | 21 40 53 | 23°48'45 | 0 M 25 | 15°57 | 22°R46 | 5°56 | 24°31 | 5°35 | 6°18 | 0°47 | 19° 1 | 16°10 | 14°44 | 0°54 | 8° 4 | W16 |
| T 17 | 21 44 49 | 24°46'34 | 14°45 | 17°57 | 22°46 | 6°35 | 24°43 | 5°43 | 6°18 | 0°46 | 19° 2 | 16° 8 | 14°40 | 1° 1 | 8° 4 | T 17 |
| F 18 | 21 48 46 | 25°44'24 | 28°53 | 19°57 | 22°43 | 7°13 | 24°55 | 5°50 | 6°18 | 0°44 | 19° 4 | 16°D 8 | 14°37 | 1° 8 | 8° 3 | F 18 |
| S 19 | 21 52 42 | 26°42'15 | 12 ,7 49 | 21°57 | 22°38 | 7°51 | 25° 7 | 5°58 | 6°17 | 0°43 | 19° 5 | 16° 9 | 14°34 | 1°14 | 8° 3 | S 19 |
| S 20 | 21 56 39 | 27°40'08 | 26°32 | 23°57 | 22°31 | 8°30 | 25°20 | 6° 5 | 6°17 | 0°41 | 19° 6 | 16°10 | 14°31 | 1°21 | 8° 2 | S 20 |
| M21 | 22 0 35 | 28°38'01 | 10る 2 | 25°57 | 22°22 | 9° 8 | 25°32 | 6°13 | 6°16 | 0°39 | 19°8 | 16°R11 | 14°28 | 1°28 | 8° 2 | M21 |
| T 22 | 22 4 32 | 29°35'57 | 23°20 | 27°56 | 22°10 | 9°46 | 25°44 | 6°20 | 6°16 | 0°38 | 19° 9 | 16°11 | 14°24 | 1°35 | 8° 1 | T 22 |
| W23 | 22 8 28 | 0 m 33'53 | 6≈26 | 29°54 | 21°55 | 10°24 | 25°56 | 6°28 | 6°15 | 0°36 | 19°10 | 16° 9 | 14°21 | 1°41 | 8° 1 | W23 |
| T 24 | 22 12 25 | 1°31'51 | 19°20 | 1 m p 5 1 | 21°39 | 11° 3 | 26° 9 | 6°35 | 6°15 | 0°34 | 19°11 | 16° 5 | 14°18 | 1°48 | 8° 0 | T 24 |
| F 25 | 22 16 22 | 2°29'51 | 2) 2 | 3°47 | 21°20 | 11°41 | 26°21 | 6°43 | 6°14 | 0°33 | 19°13 | 15°59 | 14°15 | 1°55 | 7°59 | F 25 |
| S 26 | 22 20 18 | 3°27'52 | 14°33 | 5°42 | 20°58 | 12°19 | 26°33 | 6°51 | 6°13 | 0°31 | 19°14 | 15°51 | 14°12 | 2° 1 | 7°58 | S 26 |
| S 27 | 22 24 15 | 4°25'54 | 26°52 | 7°36 | 20°35 | 12°57 | 26°46 | 6°58 | 6°13 | 0°29 | 19°15 | 15°42 | 14° 9 | 2° 8 | 7°57 | S 27 |
| M28 | 22 28 11 | 5°23'59 | 9 Υ 1 | 9°29 | 20° 9 | 13°35 | 26°58 | 7° 6 | 6°12 | 0°28 | 19°16 | 15°33 | 14° 5 | 2°15 | 7°56 | M28 |
| T 29 | 22 32 8 | 6°22'05 | 21° 1 | 11°21 | 19°42 | 14°13 | 27°11 | 7°13 | 6°11 | 0°26 | 19°17 | 15°25 | 14° 2 | 2°22 | 7°55 | T 29 |
| W30 | 22 36 4 | 7°20'13 | 2 8 55 | 13°12 | 19°13 | 14°51 | 27°23 | 7°21 | 6°10 | 0°25 | 19°18 | 15°18 | 13°59 | 2°28 | 7°54 | W30 |
| T 31 | 22 40 1 | 8 m) 18'24 | 14 8 46 | 15 m) 1 | 18 M 42 | 15 Ω 29 | 27 m 36 | 7 ₥ 28 | 6 8 9 | 0 ∺ 23 | 199520 | 159513 | 13956 | 2 8 35 | 7 8 53 | T 31 |
| | | | | | | | | | | | | | | | | |

Delta T = 21.14 sec

SEPTEMBER 1684 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| ¥ | Р | ß | v | Ç | Q K | Day |
|--------------|----------------------|----------------------|--------------------------|------------------------|-----------------|----------------|----------------|----------------|---------------|-------------------------|----------------|----------------|----------------|---------------|---------------|--------------|
| F 1 | 22 43 57 | 9 m 16'36 | 26 8 39 | 16 M)49 | 18°R 9 | 16 Ω 7 | 27 m 48 | 7 m /36 | 6°R 8 | 0°R21 | 199521 | 15°R10 | 13953 | 2 8 42 | 7°R52 | F 1 |
| S 2 | 22 47 54 | 10°14'50 | 8 Ⅱ 37 | 18°36 | 17 M)36 | 16°45 | 28° 1 | 7°44 | 6 8 7 | 0 ∺ 20 | 19°22 | 15°D 9 | 13°50 | 2°48 | 7 8 51 | S 2 |
| S 3 | 22 51 51 | 11°13'07 | 20°45 | 20°22 | 17° 1 | 17°23 | 28°13 | 7°51 | 6° 6 | 0°18 | 19°23 | 1595 9 | 13°46 | 2°55 | 7°50 | S 3 |
| M 4 | 22 55 47 | 12°11'25 | 39510 | 22° 7 | 16°25 | 18° 1 | 28°26 | 7°59 | 6° 5 | 0°16 | 19°24 | 15°10 | 13°43 | 3° 2 | 7°48 | M 4 |
| T 5 | 22 59 44 | 13° 9'46 | 15°56 | 23°50 | 15°49 | 18°39 | 28°39 | 8° 6 | 6° 4 | 0°15 | 19°25 | 15°R11 | 13°40 | 3° 9 | 7°47 | T 5 |
| W 6 | 23 3 40 | 14° 8'08 | 29° 6 | 25°33 | 15°12 | 19°17 | 28°52 | 8°14 | 6° 2 | 0°13 | 19°26 | 15°10 | 13°37 | 3°15 | 7°45 | W 6 |
| T 7 | 23 7 37 | 15° 6'33 | 12\$\Omega43 | 27°14 | 14°35 | 19°55 | 29° 4 | 8°21 | 6° 1 6° 0 | 0°12 | 19°27 | 15° 7 | 13°34 | 3°22 | 7°44 | T 7 |
| F 8 | 23 11 33 | 16° 5'00 17° 3'28 | 26°46 | 28°54 0 Ω 33 | 13°58 13°21 | 20°33 21°11 | 29°17 29°30 | 8°29 8°36 | 6° 0 5°58 | 0°10 0° 9 | 19°28 19°29 | 15° 1 14°53 | 13°30 13°27 | 3°29 3°35 | 7°42 7°41 | F 8 S 9 |
| | 23 15 30 | | 11 Mp 14 | | _ | | | | | | | | - | | | |
| S 10 | 23 19 26 | 18° 1'59 | 26° 0 | 2°11 | 12°45 | 21°49 | 29°43 | 8°44 | 5°57 | 0° 7 | 19°30 | 14°44 | 13°24 | 3°42 | 7°39 | S 10 |
| M11 | 23 23 23 | 19° 0'31 | 10₽56 | 3°48 | 12°10 | 22°27 | 29°56 | 8°51 | 5°56 | 0° 5 | 19°31 | 14°34 | 13°21 | 3°49 | 7°38 | M11 |
| T 12 | 23 27 19 23 31 16 | 19°59'06 20°57'42 | 25°53 | 5°24 6°59 | 11°35 11° 2 | 23° 5 23°42 | 0 <u> </u> | 8°59 9°6 | 5°54 | 0° 4 0° 2 | 19°32 19°33 | 14°25 14°18 | 13°18 | 3°56 4° 2 | 7°36 7°34 | T 12 W13 |
| W13 T 14 | 23 35 13 | 20°57′42 21°56′19 | 10 M .42 25°16 | 8°33 | 10°30 | 23°42 24°20 | 0°34 | 9°14 | 5°53 5°51 | 0° 2 | 19°33 | 14°18 | 13°15 13°11 | 4° 2 4° 9 | 7°34 7°32 | T 14 |
| F 15 | 23 39 9 | 21°54'59 | 9 × 731 | 10° 6 | 10° 0 | 24°58 | 0°47 | 9°21 | 5°49 | 29≈59 | 19°34 | 14°10 | 13° 8 | 4°16 | 7°30 | F 15 |
| S 16 | 23 43 6 | 23°53'40 | 23°26 | 11°38 | 9°31 | 25°36 | 1° 0 | 9°29 | 5°48 | 29°58 | 19°35 | 14°D10 | 13° 5 | 4°22 | 7°28 | S 16 |
| S 17 | 23 47 2 | 24°52'23 | 7ਰ 1 | 13° 8 | 9° 4 | 26°13 | 1°13 | 9°36 | 5°46 | 29°56 | 19°36 | 14°R10 | 13° 2 | 4°29 | 7°26 | S 17 |
| M18 | 23 50 59 | 25°51'07 | 20°17 | 14°38 | 8°39 | 26°51 | 1°26 | 9°43 | 5°44 | 29°55 | 19°37 | 14°10 | 12°59 | 4°36 | 7°24 | M18 |
| T 19 | 23 54 55 | 26°49'53 | 3≈17 | 16° 7 | 8°17 | 27°29 | 1°39 | 9°51 | 5°43 | 29°54 | 19°38 | 14° 8 | 12°55 | 4°43 | 7°22 | T 19 |
| W20 | 23 58 52 | 27°48'41 | 16° 4 | 17°35 | 7°56 | 28° 6 | 1°52 | 9°58 | 5°41 | 29°52 | 19°38 | 14° 5 | 12°52 | 4°49 | 7°20 | W20 |
| T 21 | 0 2 48 | 28°47'31 | 28°40 | 19° 2 | 7°38 | 28°44 | 2° 5 | 10° 6 | 5°39 | 29°51 | 19°39 | 13°58 | 12°49 | 4°56 | 7°18 | T 21 |
| F 22 | 0 6 45 | 29°46'23 | 11 💥 5 | 20°28 | 7°22 | 29°21 | 2°18 | 10°13 | 5°37 | 29°49 | 19°40 | 13°48 | 12°46 | 5° 3 5° 9 | 7°16 | F 22 S 23 |
| S 23 | 0 10 42 | 0 ≏ 45'16 | 23°22 | 21°52 | 7° 9 | 29°59 | 2°31 | 10°20 | 5°35 | 29°48 | 19°40 | 13°37 | 12°43 | | 7°13 | |
| S 24 | 0 14 38 | 1°44'11 | 5 Ƴ 31 | 23°16 | 6°58 | 0 m y37 | 2°44 | 10°27 | 5°33 | 29°47 | 19°41 | 13°23 | 12°40 | 5°16 | 7°11 | S 24 |
| M25 | 0 18 35 | 2°43'09 | 17°33 | 24°39 | 6°49 | 1°14 | 2°57 | 10°35 | 5°32 | 29°45 | 19°42 | 13° 9 | 12°36 | 5°23 | 7° 9 | M25 |
| T 26 | 0 22 31 | 3°42'09 | 29°29 | 26° 0 | 6°43 | 1°52 | 3°10 | 10°42 | 5°30 | 29°44 | 19°42 | 12°56 | 12°33 | 5°30 | 7° 6 | T 26 |
| W27 | 0 26 28 | 4°41'10 | 11820 | 27°20 | 6°39 | 2°29 3° 7 | 3°23 | 10°49 | 5°28 | 29°43 | 19°43 | 12°45 | 12°30 | 5°36 | 7° 4 7° 2 | W27 |
| T 28 F 29 | 0 30 24 0 34 21 | 5°40'14 6°39'21 | 23°10 5 Ⅱ 1 | 28°39 29°57 | 6°D38 6°39 | 3° 7 3°44 | 3°36 3°49 | 10°56 11° 3 | 5°26 5°23 | 29°41 29°40 | 19°43 19°44 | 12°36 12°30 | 12°27 12°24 | 5°43 5°50 | 7° 2 6°59 | T 28 F 29 |
| S 30 | 0 34 21 | 7 ≏ 38'29 | 16 I I57 | 1 M -13 | 6M) 43 | 4m)21 | 4 <u>Ω</u> 2 | 11° 3 | 5 8 21 | 29°40 29 ≈ 39 | 19544 | 12526 | 12524 | 5 8 56 | 6 8 57 | S 30 |
| 5 50 | 0 30 17 | 1 - 30 29 | 10113/ | 111013 | כד אָוויט | ו∠עווד | 7— 2 | ט ז עוו ז ז | J U 21 | 2/~39 | 17-3-7-7 | 12-220 | 12-221 | J O J0 | 0037 | 5 50 |

Delta T = 21.09 sec

Greg. Calendar

OCTOBER 1684 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | o [™] | 4 | ħ |)Å(| ¥ | Р | U | v | Ç | ς κ | Day |
|------|---------|------------------|----------------|----------------|---------------|----------------|----------------|-----------------|---------------|--------|-----------------|--------|--------|---------------|---------------|------|
| S 1 | 0 42 14 | 8 △ 37'40 | 29耳 3 | 2 M 28 | 6 m 49 | 4 m 59 | 4 ₽ 15 | 11 m)17 | 5°R19 | 29°R38 | 199545 | 12°R25 | 129517 | 6 8 3 | 6°R54 | S 1 |
| M 2 | 0 46 11 | 9°36'54 | 119524 | 3°42 | 6°57 | 5°36 | 4°28 | 11°24 | 5 8 17 | 29≈37 | 19°45 | 12925 | 12°14 | 6°10 | 6 8 51 | M 2 |
| T 3 | 0 50 7 | 10°36'09 | 24° 5 | 4°54 | 7° 7 | 6°14 | 4°41 | 11°31 | 5°15 | 29°36 | 19°46 | 12°25 | 12°11 | 6°17 | 6°49 | T 3 |
| W 4 | 0 54 4 | 11°35'27 | 7 Ω 11 | 6° 4 | 7°19 | 6°51 | 4°53 | 11°38 | 5°13 | 29°34 | 19°46 | 12°23 | 12° 8 | 6°23 | 6°46 | W 4 |
| T 5 | 0 58 0 | 12°34'48 | 20°45 | 7°12 | 7°34 | 7°28 | 5° 6 | 11°45 | 5°11 | 29°33 | 19°47 | 12°20 | 12° 5 | 6°30 | 6°43 | T 5 |
| F 6 | 1 1 57 | 13°34'10 | 4 m 50 | 8°18 | 7°51 | 8° 6 | 5°19 | 11°52 | 5° 8 | 29°32 | 19°47 | 12°13 | 12° 1 | 6°37 | 6°41 | F 6 |
| S 7 | 1 5 53 | 14°33'35 | 19°23 | 9°22 | 8° 9 | 8°43 | 5°32 | 11°59 | 5° 6 | 29°31 | 19°47 | 12° 4 | 11°58 | 6°43 | 6°38 | S 7 |
| S 8 | 1 9 50 | 15°33'02 | 4 <u>₽</u> 20 | 10°24 | 8°30 | 9°20 | 5°45 | 12° 5 | 5° 4 | 29°30 | 19°48 | 11°54 | 11°55 | 6°50 | 6°35 | S 8 |
| M 9 | 1 13 46 | 16°32'31 | 19°32 | 11°23 | 8°52 | 9°57 | 5°58 | 12°12 | 5° 1 | 29°29 | 19°48 | 11°42 | 11°52 | 6°57 | 6°32 | M 9 |
| T 10 | 1 17 43 | 17°32'02 | 4 M .48 | 12°19 | 9°16 | 10°35 | 6°11 | 12°19 | 4°59 | 29°28 | 19°48 | 11°31 | 11°49 | 7° 3 | 6°30 | T 10 |
| W11 | 1 21 40 | 18°31'35 | 19°57 | 13°12 | 9°42 | 11°12 | 6°24 | 12°25 | 4°57 | 29°27 | 19°48 | 11°22 | 11°46 | 7°10 | 6°27 | W11 |
| T 12 | 1 25 36 | 19°31'10 | 4 ₹ 49 | 14° 2 | 10°10 | 11°49 | 6°37 | 12°32 | 4°54 | 29°26 | 19°49 | 11°16 | 11°42 | 7°17 | 6°24 | T 12 |
| F 13 | 1 29 33 | 20°30'47 | 19°19 | 14°48 | 10°39 | 12°26 | 6°49 | 12°39 | 4°52 | 29°25 | 19°49 | 11°12 | 11°39 | 7°24 | 6°21 | F 13 |
| S 14 | 1 33 29 | 21°30'26 | 3 ਰ 23 | 15°29 | 11° 9 | 13° 3 | 7° 2 | 12°45 | 4°50 | 29°25 | 19°49 | 11°11 | 11°36 | 7°30 | 6°18 | S 14 |
| S 15 | 1 37 26 | 22°30'06 | 17° 0 | 16° 6 | 11°41 | 13°40 | 7°15 | 12°51 | 4°47 | 29°24 | 19°49 | 11°11 | 11°33 | 7°37 | 6°15 | S 15 |
| M16 | 1 41 22 | 23°29'48 | 0≈14 | 16°38 | 12°15 | 14°17 | 7°28 | 12°58 | 4°45 | 29°23 | 19°49 | 11°11 | 11°30 | 7°44 | 6°12 | M16 |
| T 17 | 1 45 19 | 24°29'32 | 13° 8 | 17° 4 | 12°50 | 14°54 | 7°41 | 13° 4 | 4°42 | 29°22 | 19°49 | 11° 9 | 11°27 | 7°50 | 6° 9 | T 17 |
| W18 | 1 49 15 | 25°29'18 | 25°44 | 17°24 | 13°26 | 15°32 | 7°53 | 13°10 | 4°40 | 29°21 | 19°49 | 11° 6 | 11°23 | 7°57 | 6° 6 | W18 |
| T 19 | 1 53 12 | 26°29'05 | 8) 8 | 17°38 | 14° 4 | 16° 9 | 8° 6 | 13°17 | 4°38 | 29°21 | 19°49 | 10°59 | 11°20 | 8° 4 | 6° 3 | T 19 |
| F 20 | 1 57 9 | 27°28'54 | 20°21 | 17°R44 | 14°43 | 16°45 | 8°19 | 13°23 | 4°35 | 29°20 | 19°R49 | 10°50 | 11°17 | 8°11 | 6° 0 | F 20 |
| S 21 | 2 1 5 | 28°28'44 | 2 Y 27 | 17°42 | 15°23 | 17°22 | 8°31 | 13°29 | 4°33 | 29°19 | 19°49 | 10°39 | 11°14 | 8°17 | 5°57 | S 21 |
| S 22 | 2 5 2 | 29°28'37 | 14°27 | 17°32 | 16° 4 | 17°59 | 8°44 | 13°35 | 4°30 | 29°19 | 19°49 | 10°26 | 11°11 | 8°24 | 5°54 | S 22 |
| M23 | 2 8 58 | 0ML28'31 | 26°22 | 17°13 | 16°47 | 18°36 | 8°56 | 13°41 | 4°28 | 29°18 | 19°49 | 10°12 | 11° 7 | 8°31 | 5°51 | M23 |
| T 24 | 2 12 55 | 1°28'28 | 8 8 15 | 16°44 | 17°30 | 19°13 | 9° 9 | 13°47 | 4°25 | 29°17 | 19°49 | 9°59 | 11° 4 | 8°37 | 5°48 | T 24 |
| W25 | 2 16 51 | 2°28'26 | 20° 6 | 16° 6 | 18°15 | 19°50 | 9°21 | 13°53 | 4°23 | 29°17 | 19°49 | 9°48 | 11° 1 | 8°44 | 5°45 | W25 |
| T 26 | 2 20 48 | 3°28'26 | 1 Ⅱ 57 | 15°19 | 19° 0 | 20°27 | 9°34 | 13°59 | 4°20 | 29°16 | 19°49 | 9°39 | 10°58 | 8°51 | 5°42 | T 26 |
| F 27 | 2 24 44 | 4°28'29 | 13°50 | 14°24 | 19°47 | 21° 4 | 9°46 | 14° 4 | 4°18 | 29°16 | 19°49 | 9°33 | 10°55 | 8°58 | 5°39 | F 27 |
| S 28 | 2 28 41 | 5°28'33 | 25°48 | 13°20 | 20°34 | 21°40 | 9°58 | 14°10 | 4°15 | 29°16 | 19°49 | 9°30 | 10°52 | 9° 4 | 5°36 | S 28 |
| S 29 | 2 32 37 | 6°28'40 | 7956 | 12° 9 | 21°23 | 22°17 | 10°11 | 14°16 | 4°13 | 29°15 | 19°48 | 9°D29 | 10°48 | 9°11 | 5°33 | S 29 |
| M30 | 2 36 34 | 7°28'48 | 20°16 | 10°54 | 22°12 | 22°54 | 10°23 | 14°21 | 4°10 | 29°15 | 19°48 | 9°29 | 10°45 | 9°18 | 5°30 | M30 |
| T 31 | 2 40 31 | 8M28'59 | 2 Ω 54 | 9 M .36 | 23 Mg 2 | 23 Mp 31 | 10 ≏ 35 | 14Mp27 | 4 8 8 | 29≈14 | 19 95 48 | 9°R30 | 109542 | 9 8 24 | 5 8 27 | T 31 |

Delta T = 21.05 sec

NOVEMBER 1684 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)Å(| 并 | В | N. | v | ţ | o k | Day |
|------|---------|-------------------|-----------------|-----------------|----------------|----------------|----------------|----------------|--------------|--------|-----------------|-------|-------|---------------|---------------|------|
| W 1 | 2 44 27 | 9M29'12 | 15 Ω 54 | 8°R17 | 23 m 53 | 24 Mp 7 | 10 ≏ 47 | 14 Mp 32 | 4°R 6 | 29°R14 | 19°R48 | 9°R30 | 10539 | 9 8 31 | 5°R24 | W 1 |
| T 2 | 2 48 24 | 10°29'27 | 29°20 | 7 M 0 | 24°44 | 24°44 | 11° 0 | 14°37 | 4 8 3 | 29≈14 | 19 95 47 | 99528 | 10°36 | 9°38 | 5 8 21 | T 2 |
| F 3 | 2 52 20 | 11°29'44 | 13 m 15 | 5°48 | 25°37 | 25°21 | 11°12 | 14°43 | 4° 1 | 29°14 | 19°47 | 9°24 | 10°32 | 9°44 | 5°18 | F 3 |
| S 4 | 2 56 17 | 12°30'02 | 27°39 | 4°42 | 26°30 | 25°57 | 11°24 | 14°48 | 3°58 | 29°13 | 19°47 | 9°18 | 10°29 | 9°51 | 5°15 | S 4 |
| S 5 | 3 0 13 | 13°30'23 | 12 ≏ 29 | 3°45 | 27°23 | 26°34 | 11°36 | 14°53 | 3°56 | 29°13 | 19°46 | 9°10 | 10°26 | 9°58 | 5°12 | S 5 |
| M 6 | 3 4 10 | 14°30'46 | 27°38 | 2°59 | 28°18 | 27°10 | 11°48 | 14°58 | 3°53 | 29°13 | 19°46 | 9° 2 | 10°23 | 10° 5 | 5° 9 | M 6 |
| T 7 | 3 8 6 | 15°31'11 | 12 M 57 | 2°23 | 29°13 | 27°47 | 11°59 | 15° 3 | 3°51 | 29°13 | 19°45 | 8°53 | 10°20 | 10°11 | 5° 6 | T 7 |
| W 8 | 3 12 3 | 16°31'37 | 28°14 | 1°59 | 0 ⊽ 9 | 28°23 | 12°11 | 15° 8 | 3°48 | 29°13 | 19°45 | 8°46 | 10°17 | 10°18 | 5° 3 | W 8 |
| T 9 | 3 16 0 | 17°32'05 | 13 × 18 | 1°47 | 1° 5 | 29° 0 | 12°23 | 15°13 | 3°46 | 29°13 | 19°44 | 8°41 | 10°13 | 10°25 | 5° 0 | T 9 |
| F 10 | 3 19 56 | 18°32'34 | 28° 1 | 1°D46 | 2° 2 | 29°36 | 12°35 | 15°17 | 3°44 | 29°D13 | 19°44 | 8°39 | 10°10 | 10°31 | 4°57 | F 10 |
| S 11 | 3 23 53 | 19°33'05 | 12 る 18 | 1°57 | 2°59 | 0 ჲ 13 | 12°46 | 15°22 | 3°41 | 29°13 | 19°43 | 8°D38 | 10° 7 | 10°38 | 4°54 | S 11 |
| S 12 | 3 27 49 | 20°33'37 | 26° 6 | 2°17 | 3°57 | 0°49 | 12°58 | 15°27 | 3°39 | 29°13 | 19°43 | 8°39 | 10° 4 | 10°45 | 4°51 | S 12 |
| M13 | 3 31 46 | 21°34'11 | 9≈27 | 2°46 | 4°55 | 1°25 | 13° 9 | 15°31 | 3°37 | 29°13 | 19°42 | 8°41 | 10° 1 | 10°52 | 4°48 | M13 |
| T 14 | 3 35 42 | 22°34'45 | 22°24 | 3°24 | 5°54 | 2° 2 | 13°21 | 15°35 | 3°34 | 29°13 | 19°42 | 8°R41 | 9°58 | 10°58 | 4°45 | T 14 |
| W15 | 3 39 39 | 23°35'21 | 5 米 0 | 4° 9 | 6°54 | 2°38 | 13°32 | 15°40 | 3°32 | 29°13 | 19°41 | 8°40 | 9°54 | 11° 5 | 4°42 | W15 |
| T 16 | 3 43 35 | 24°35'58 | 17°20 | 5° 1 | 7°54 | 3°14 | 13°43 | 15°44 | 3°30 | 29°13 | 19°40 | 8°38 | 9°51 | 11°12 | 4°39 | T 16 |
| F 17 | 3 47 32 | 25°36'36 | 29°27 | 5°59 | 8°54 | 3°50 | 13°55 | 15°48 | 3°28 | 29°14 | 19°40 | 8°33 | 9°48 | 11°18 | 4°36 | F 17 |
| S 18 | 3 51 29 | 26°37'15 | 11 Y 26 | 7° 2 | 9°55 | 4°26 | 14° 6 | 15°52 | 3°25 | 29°14 | 19°39 | 8°26 | 9°45 | 11°25 | 4°34 | S 18 |
| S 19 | 3 55 25 | 27°37'56 | 23°21 | 8° 9 | 10°56 | 5° 3 | 14°17 | 15°56 | 3°23 | 29°14 | 19°38 | 8°19 | 9°42 | 11°32 | 4°31 | S 19 |
| M20 | 3 59 22 | 28°38'38 | 5 8 12 | 9°21 | 11°58 | 5°39 | 14°28 | 16° 0 | 3°21 | 29°15 | 19°38 | 8°11 | 9°38 | 11°38 | 4°28 | M20 |
| T 21 | 4 3 18 | 29°39'21 | 17° 4 | 10°35 | 13° 0 | 6°15 | 14°39 | 16° 4 | 3°19 | 29°15 | 19°37 | 8° 3 | 9°35 | 11°45 | 4°25 | T 21 |
| W22 | 4 7 15 | 0 √ 40'05 | 28°56 | 11°52 | 14° 2 | 6°51 | 14°50 | 16° 7 | 3°17 | 29°15 | 19°36 | 7°57 | 9°32 | 11°52 | 4°23 | W22 |
| T 23 | 4 11 11 | 1°40'51 | 10 Ⅱ 52 | 13°12 | 15° 5 | 7°27 | 15° 0 | 16°11 | 3°15 | 29°16 | 19°35 | 7°52 | 9°29 | 11°59 | 4°20 | T 23 |
| F 24 | 4 15 8 | 2°41'38 | 22°53 | 14°33 | 16° 8 | 8° 3 | 15°11 | 16°15 | 3°12 | 29°16 | 19°35 | 7°49 | 9°26 | 12° 5 | 4°18 | F 24 |
| S 25 | 4 19 4 | 3°42'26 | 5 95 1 | 15°56 | 17°11 | 8°39 | 15°22 | 16°18 | 3°10 | 29°17 | 19°34 | 7°D48 | 9°23 | 12°12 | 4°15 | S 25 |
| S 26 | 4 23 1 | 4°43'16 | 17°17 | 17°21 | 18°15 | 9°14 | 15°32 | 16°21 | 3° 8 | 29°17 | 19°33 | 7°48 | 9°19 | 12°19 | 4°12 | S 26 |
| M27 | 4 26 58 | 5°44'07 | 29°45 | 18°47 | 19°19 | 9°50 | 15°43 | 16°24 | 3° 6 | 29°18 | 19°32 | 7°49 | 9°16 | 12°25 | 4°10 | M27 |
| T 28 | 4 30 54 | 6°44'59 | $12\Omega_{28}$ | 20°14 | 20°24 | 10°26 | 15°53 | 16°28 | 3° 4 | 29°19 | 19°31 | 7°51 | 9°13 | 12°32 | 4° 7 | T 28 |
| W29 | 4 34 51 | 7°45'53 | 25°29 | 21°42 | 21°29 | 11° 2 | 16° 3 | 16°31 | 3° 3 | 29°19 | 19°30 | 7°53 | 9°10 | 12°39 | 4° 5 | W29 |
| T 30 | 4 38 47 | 8 ∡ 146'48 | 8 m /50 | 23 IL 11 | 22 ≏ 34 | 11 ≏ 38 | 16 ≏ 13 | 16 M 33 | 3 8 1 | 29≈20 | 199529 | 7°R53 | 999 7 | 12845 | 4 8 3 | T 30 |

Delta T = 21.00 sec Greg. Calendar

DECEMBER 1684 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | Р | v | Ω | Ç | ç | Day |
|------|---------|-------------------|---------------|----------------|----------------|----------------|----------------|-----------------|---------------|-------|--------|---------------|-------|----------------|---------------|------|
| F 1 | 4 42 44 | 9 ∡ 147'44 | 22 Mp 35 | 24M40 | 23 £ 39 | 12 ≏ 13 | 16 ₽ 24 | 16 M)36 | 2°R59 | 29≈21 | 19°R28 | 7°R52 | 995 4 | 12 8 52 | 4°R 0 | F 1 |
| S 2 | 4 46 40 | 10°48'41 | 6 ≏ 44 | 26°10 | 24°45 | 12°49 | 16°33 | 16°39 | 2 8 57 | 29°21 | 199527 | 7 9 51 | 9° 0 | 12°59 | 3 8 58 | S 2 |
| S 3 | 4 50 37 | 11°49'40 | 21°15 | 27°40 | 25°51 | 13°25 | 16°43 | 16°42 | 2°55 | 29°22 | 19°26 | 7°48 | 8°57 | 13° 6 | 3°56 | S 3 |
| M 4 | 4 54 33 | 12°50'40 | 6M 5 | 29°11 | 26°57 | 14° 0 | 16°53 | 16°44 | 2°53 | 29°23 | 19°25 | 7°44 | 8°54 | 13°12 | 3°53 | M 4 |
| T 5 | 4 58 30 | 13°51'41 | 21° 7 | 0 ∡ 142 | 28° 3 | 14°36 | 17° 3 | 16°47 | 2°52 | 29°24 | 19°24 | 7°40 | 8°51 | 13°19 | 3°51 | T 5 |
| W 6 | 5 2 27 | 14°52'44 | 6 ₹ 13 | 2°13 | 29°10 | 15°11 | 17°12 | 16°49 | 2°50 | 29°25 | 19°23 | 7°38 | 8°48 | 13°26 | 3°49 | W 6 |
| T 7 | 5 6 23 | 15°53'47 | 21°12 | 3°45 | 0 M 17 | 15°47 | 17°22 | 16°51 | 2°48 | 29°26 | 19°22 | 7°36 | 8°44 | 13°32 | 3°47 | T 7 |
| F 8 | 5 10 20 | 16°54'51 | 5 ろ 56 | 5°17 | 1°24 | 16°22 | 17°31 | 16°53 | 2°47 | 29°27 | 19°21 | 7°D35 | 8°41 | 13°39 | 3°45 | F 8 |
| S 9 | 5 14 16 | 17°55'55 | 20°19 | 6°49 | 2°31 | 16°57 | 17°40 | 16°55 | 2°45 | 29°28 | 19°20 | 7°35 | 8°38 | 13°46 | 3°43 | S 9 |
| S 10 | 5 18 13 | 18°57'00 | 4≈17 | 8°21 | 3°39 | 17°33 | 17°50 | 16°57 | 2°44 | 29°29 | 19°19 | 7°37 | 8°35 | 13°52 | 3°41 | S 10 |
| M11 | 5 22 9 | 19°58'06 | 17°47 | 9°53 | 4°47 | 18° 8 | 17°59 | 16°59 | 2°42 | 29°30 | 19°18 | 7°38 | 8°32 | 13°59 | 3°39 | M11 |
| T 12 | 5 26 6 | 20°59'12 | 0 ∺ 52 | 11°26 | 5°55 | 18°43 | 18° 7 | 17° 1 | 2°41 | 29°31 | 19°17 | 7°39 | 8°29 | 14° 6 | 3°37 | T 12 |
| W13 | 5 30 3 | 22° 0'18 | 13°34 | 12°59 | 7° 3 | 19°18 | 18°16 | 17° 2 | 2°40 | 29°32 | 19°16 | 7°40 | 8°25 | 14°13 | 3°36 | W13 |
| T 14 | 5 33 59 | 23° 1'24 | 25°56 | 14°31 | 8°11 | 19°53 | 18°25 | 17° 4 | 2°38 | 29°33 | 19°15 | 7°R40 | 8°22 | 14°19 | 3°34 | T 14 |
| F 15 | 5 37 56 | 24° 2'31 | 8 Υ 4 | 16° 4 | 9°20 | 20°28 | 18°33 | 17° 5 | 2°37 | 29°34 | 19°14 | 7°40 | 8°19 | 14°26 | 3°32 | F 15 |
| S 16 | 5 41 52 | 25° 3'38 | 20° 2 | 17°38 | 10°28 | 21° 3 | 18°42 | 17° 6 | 2°36 | 29°35 | 19°12 | 7°39 | 8°16 | 14°33 | 3°31 | S 16 |
| S 17 | 5 45 49 | 26° 4'45 | 1 8 54 | 19°11 | 11°37 | 21°38 | 18°50 | 17° 7 | 2°35 | 29°36 | 19°11 | 7°37 | 8°13 | 14°39 | 3°29 | S 17 |
| M18 | 5 49 45 | 27° 5'52 | 13°44 | 20°45 | 12°46 | 22°13 | 18°58 | 17° 8 | 2°33 | 29°38 | 19°10 | 7°35 | 8°10 | 14°46 | 3°27 | M18 |
| T 19 | 5 53 42 | 28° 7'00 | 25°36 | 22°19 | 13°55 | 22°48 | 19° 6 | 17° 9 | 2°32 | 29°39 | 19° 9 | 7°34 | 8° 6 | 14°53 | 3°26 | T 19 |
| W20 | 5 57 38 | 29° 8'08 | 7 Ⅱ 33 | 23°53 | 15° 5 | 23°22 | 19°14 | 17°10 | 2°31 | 29°40 | 19° 8 | 7°33 | 8° 3 | 14°59 | 3°25 | W20 |
| T 21 | 6 1 35 | 9'16 | 19°36 | 25°27 | 16°14 | 23°57 | 19°22 | 17°11 | 2°30 | 29°42 | 19° 6 | 7°32 | 8° 0 | 15° 6 | 3°23 | T 21 |
| F 22 | 6 5 32 | 1°10'24 | 19548 | 27° 1 | 17°24 | 24°32 | 19°30 | 17°11 | 2°29 | 29°43 | 19° 5 | 7°D31 | 7°57 | 15°13 | 3°22 | F 22 |
| S 23 | 6 9 28 | 2°11'33 | 14°10 | 28°36 | 18°34 | 25° 6 | 19°37 | 17°12 | 2°28 | 29°44 | 19° 4 | 7°31 | 7°54 | 15°19 | 3°21 | S 23 |
| S 24 | 6 13 25 | 3°12'42 | 26°44 | 0 궁 11 | 19°44 | 25°41 | 19°45 | 17°12 | 2°27 | 29°46 | 19° 3 | 7°32 | 7°50 | 15°26 | 3°20 | S 24 |
| M25 | 6 17 21 | 4°13'51 | 9 Ω 30 | 1°47 | 20°54 | 26°15 | 19°52 | 17°12 | 2°27 | 29°47 | 19° 2 | 7°32 | 7°47 | 15°33 | 3°18 | M25 |
| T 26 | 6 21 18 | 5°15'00 | 22°29 | 3°22 | 22° 4 | 26°50 | 19°59 | 17°12 | 2°26 | 29°49 | 19° 0 | 7°32 | 7°44 | 15°40 | 3°17 | T 26 |
| W27 | 6 25 14 | 6°16'10 | 5 Mp 42 | 4°58 | 23°14 | 27°24 | 20° 6 | 17°R12 | 2°25 | 29°50 | 18°59 | 7°33 | 7°41 | 15°46 | 3°16 | W27 |
| T 28 | 6 29 11 | 7°17'20 | 19°10 | 6°35 | 24°25 | 27°58 | 20°13 | 17°12 | 2°24 | 29°52 | 18°58 | 7°R33 | 7°38 | 15°53 | 3°15 | T 28 |
| F 29 | 6 33 7 | 8°18'30 | 2 ≏ 54 | 8°11 | 25°35 | 28°32 | 20°20 | 17°12 | 2°24 | 29°53 | 18°57 | 7°D33 | 7°35 | 16° 0 | 3°15 | F 29 |
| S 30 | 6 37 4 | 9°19'40 | 16°53 | 9°48 | 26°46 | 29° 7 | 20°26 | 17°12 | 2°23 | 29°55 | 18°55 | 7°33 | 7°31 | 16° 6 | 3°14 | S 30 |
| S 31 | 6 41 1 | 10 ට 20'51 | 1 m 7 | 11 る 26 | 27 M 57 | 29 ≏ 41 | 20 ≏ 33 | 17 m)11 | 2 8 23 | 29≈57 | 18954 | 7933 | 79528 | 16 8 13 | 3 8 13 | S 31 |

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|------|---------|----------|-----------------|--------------|---------------|----------------|----------------|----------------|---------------|---------------|--------|-------|---------------|----------------|---------------|------|
| M 1 | 6 44 57 | 11る22'02 | 15 M 33 | 13る3 | 29M 8 | 0 M _15 | 20 ჲ 39 | 17°R11 | 2°R22 | 29≈58 | 18°R53 | 7933 | 79925 | 16820 | 3°R12 | M 1 |
| T 2 | 6 48 54 | 12°23'13 | 0 ≯ 8 | 14°42 | 0 才 19 | 0°49 | 20°45 | 17 m 10 | 2 8 22 | 29°59 | 18951 | 7°33 | 7°22 | 16°26 | 3 8 12 | T 2 |
| W 3 | 6 52 50 | 13°24'24 | 14°47 | 16°20 | 1°30 | 1°22 | 20°51 | 17°10 | 2°21 | 0 ∺ 2 | 18°50 | 7°34 | 7°19 | 16°33 | 3°11 | W 3 |
| T 4 | 6 56 47 | 14°25'35 | 29°24 | 17°59 | 2°41 | 1°56 | 20°57 | 17° 9 | 2°21 | 0° 3 | 18°49 | 7°34 | 7°16 | 16°40 | 3°11 | T 4 |
| F 5 | 7 0 43 | 15°26'47 | 13 る 52 | 19°39 | 3°52 | 2°30 | 21° 2 | 17° 8 | 2°21 | 0° 5 | 18°48 | 7°R34 | 7°12 | 16°47 | 3°10 | F 5 |
| S 6 | 7 4 40 | 16°27'57 | 28° 6 | 21°19 | 5° 4 | 3° 3 | 21° 8 | 17° 7 | 2°21 | 0° 7 | 18°46 | 7°34 | 7° 9 | 16°53 | 3°10 | S 6 |
| S 7 | 7 8 3 7 | 17°29'07 | 12≈ 1 | 22°59 | 6°15 | 3°37 | 21°13 | 17° 5 | 2°20 | 0° 9 | 18°45 | 7°33 | 7° 6 | 17° 0 | 3° 9 | S 7 |
| M 8 | 7 12 33 | 18°30'17 | 25°33 | 24°39 | 7°27 | 4°10 | 21°18 | 17° 4 | 2°20 | 0°10 | 18°44 | 7°32 | 7° 3 | 17° 7 | 3° 9 | M 8 |
| T 9 | 7 16 30 | 19°31'26 | 8) 43 | 26°20 | 8°38 | 4°44 | 21°23 | 17° 3 | 2°20 | 0°12 | 18°42 | 7°30 | 7° 0 | 17°13 | 3° 9 | T 9 |
| W10 | 7 20 26 | 20°32'34 | 21°30 | 28° 1 | 9°50 | 5°17 | 21°28 | 17° 1 | 2°D20 | 0°14 | 18°41 | 7°28 | 6°56 | 17°20 | 3° 9 | W10 |
| T 11 | 7 24 23 | 21°33'42 | 3 Ƴ 57 | 29°43 | 11° 2 | 5°50 | 21°33 | 17° 0 | 2°20 | 0°16 | 18°40 | 7°27 | 6°53 | 17°27 | 3° 9 | T 11 |
| F 12 | 7 28 19 | 22°34'49 | 16° 8 | 1≈25 | 12°14 | 6°23 | 21°37 | 16°58 | 2°20 | 0°18 | 18°38 | 7°26 | 6°50 | 17°33 | 3°D 9 | F 12 |
| S 13 | 7 32 16 | 23°35'55 | 28° 7 | 3° 7 | 13°26 | 6°56 | 21°42 | 16°56 | 2°21 | 0°20 | 18°37 | 7°D26 | 6°47 | 17°40 | 3° 9 | S 13 |
| S 14 | 7 36 12 | 24°37'00 | 10 8 0 | 4°49 | 14°38 | 7°29 | 21°46 | 16°54 | 2°21 | 0°22 | 18°36 | 7°27 | 6°44 | 17°47 | 3° 9 | S 14 |
| M15 | 7 40 9 | 25°38'04 | 21°50 | 6°31 | 15°50 | 8° 2 | 21°50 | 16°52 | 2°21 | 0°24 | 18°35 | 7°28 | 6°41 | 17°53 | 3° 9 | M15 |
| T 16 | 7 44 5 | 26°39'08 | 3 Ⅱ 42 | 8°12 | 17° 2 | 8°35 | 21°54 | 16°50 | 2°21 | 0°25 | 18°33 | 7°30 | 6°37 | 18° 0 | 3° 9 | T 16 |
| W17 | 7 48 2 | 27°40'10 | 15°42 | 9°54 | 18°14 | 9° 7 | 21°57 | 16°48 | 2°22 | 0°27 | 18°32 | 7°31 | 6°34 | 18° 7 | 3°10 | W17 |
| T 18 | 7 51 59 | 28°41'12 | 27°52 | 11°35 | 19°26 | 9°40 | 22° 1 | 16°46 | 2°22 | 0°29 | 18°31 | 7°32 | 6°31 | 18°13 | 3°10 | T 18 |
| F 19 | 7 55 55 | 29°42'12 | 109915 | 13°15 | 20°38 | 10°12 | 22° 4 | 16°43 | 2°23 | 0°31 | 18°29 | 7°R33 | 6°28 | 18°20 | 3°11 | F 19 |
| S 20 | 7 59 52 | 0≈43'12 | 22°53 | 14°55 | 21°51 | 10°45 | 22° 7 | 16°41 | 2°23 | 0°33 | 18°28 | 7°32 | 6°25 | 18°27 | 3°11 | S 20 |
| S 21 | 8 3 48 | 1°44'11 | 5 Ω 47 | 16°33 | 23° 3 | 11°17 | 22°10 | 16°38 | 2°24 | 0°36 | 18°27 | 7°30 | 6°22 | 18°34 | 3°12 | S 21 |
| M22 | 8 7 45 | 2°45'09 | 18°57 | 18°10 | 24°16 | 11°49 | 22°13 | 16°35 | 2°24 | 0°38 | 18°26 | 7°27 | 6°18 | 18°40 | 3°12 | M22 |
| T 23 | 8 11 41 | 3°46'06 | 2 m 21 | 19°44 | 25°28 | 12°21 | 22°15 | 16°33 | 2°25 | 0°40 | 18°24 | 7°23 | 6°15 | 18°47 | 3°13 | T 23 |
| W24 | 8 15 38 | 4°47'02 | 15°59 | 21°17 | 26°41 | 12°53 | 22°18 | 16°30 | 2°26 | 0°42 | 18°23 | 7°18 | 6°12 | 18°54 | 3°14 | W24 |
| T 25 | 8 19 35 | 5°47'58 | 29°47 | 22°46 | 27°53 | 13°25 | 22°20 | 16°27 | 2°27 | 0°44 | 18°22 | 7°14 | 6° 9 | 19° 0 | 3°15 | T 25 |
| F 26 | 8 23 31 | 6°48'52 | 13 ≏ 44 | 24°12 | 29° 6 | 13°57 | 22°22 | 16°24 | 2°27 | 0°46 | 18°21 | 7°11 | 6° 6 | 19° 7 | 3°15 | F 26 |
| S 27 | 8 27 28 | 7°49'46 | 27°47 | 25°34 | 0 궁 19 | 14°28 | 22°24 | 16°21 | 2°28 | 0°48 | 18°19 | 7° 9 | 6° 2 | 19°14 | 3°16 | S 27 |
| S 28 | 8 31 24 | 8°50'39 | 11 M 54 | 26°51 | 1°31 | 15° 0 | 22°25 | 16°17 | 2°29 | 0°50 | 18°18 | 7°D 9 | 5°59 | 19°20 | 3°17 | S 28 |
| M29 | 8 35 21 | 9°51'32 | 26° 5 | 28° 3 | 2°44 | 15°31 | 22°27 | 16°14 | 2°30 | 0°52 | 18°17 | 7°10 | 5°56 | 19°27 | 3°18 | M29 |
| T 30 | 8 39 17 | 10°52'23 | 10 ∡ 16 | 29° 8 | 3°57 | 16° 2 | 22°28 | 16°11 | 2°31 | 0°55 | 18°16 | 7°11 | 5°53 | 19°34 | 3°20 | T 30 |
| W31 | 8 43 14 | 11≈53'14 | 24 × 727 | 0 ∺ 7 | 5 궁 10 | 16 M 33 | 22 £ 29 | 16Mp 7 | 2 8 32 | 0 ∺ 57 | 189915 | 79913 | 5 9 50 | 19 8 40 | 3 8 21 | W31 |

Delta T = 20.91 sec

Greg. Calendar

FEBRUARY 1685 GC 00:00 UT

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|------|----------|------------------|-----------------|---------------|---------------|---------------|----------------|--------|---------------|---------------|--------|---------------|---------------|----------------|---------------|------|
| T 1 | 8 47 10 | 12≈54'04 | 8 궁 34 | 0 ∺ 58 | 6 ට 23 | 17 M 4 | 22 Ω 30 | 16°R 4 | 2 8 34 | 0 ∺ 59 | 18°R13 | 7°R13 | 5 9 47 | 19 8 47 | 3 8 22 | T 1 |
| F 2 | 8 51 7 | 13°54'52 | 22°35 | 1°40 | 7°36 | 17°35 | 22°31 | 16Mp 0 | 2°35 | 1° 1 | 189512 | 7 9512 | 5°43 | 19°54 | 3°23 | F 2 |
| S 3 | 8 55 4 | 14°55'40 | 6≈26 | 2°13 | 8°49 | 18° 6 | 22°31 | 15°57 | 2°36 | 1° 3 | 18°11 | 7° 9 | 5°40 | 20° 0 | 3°25 | S 3 |
| S 4 | 8 59 0 | 15°56'26 | 20° 4 | 2°36 | 10° 2 | 18°36 | 22°32 | 15°53 | 2°37 | 1° 6 | 18°10 | 7° 4 | 5°37 | 20° 7 | 3°26 | S 4 |
| M 5 | 9 2 57 | 16°57'11 | 3 ∺ 26 | 2°49 | 11°15 | 19° 7 | 22°R32 | 15°49 | 2°39 | 1°8 | 18° 9 | 6°58 | 5°34 | 20°14 | 3°28 | M 5 |
| T 6 | 9 6 53 | 17°57'54 | 16°30 | 2°R51 | 12°28 | 19°37 | 22°32 | 15°45 | 2°40 | 1°10 | 18° 8 | 6°50 | 5°31 | 20°21 | 3°29 | T 6 |
| W 7 | 9 10 50 | 18°58'36 | 29°15 | 2°42 | 13°41 | 20° 7 | 22°32 | 15°41 | 2°41 | 1°12 | 18° 7 | 6°43 | 5°28 | 20°27 | 3°31 | W 7 |
| T 8 | 9 14 46 | 19°59'16 | 11 Y 43 | 2°23 | 14°54 | 20°37 | 22°31 | 15°37 | 2°43 | 1°14 | 18° 6 | 6°36 | 5°24 | 20°34 | 3°32 | T 8 |
| F 9 | 9 18 43 | 20°59'55 | 23°55 | 1°54 | 16° 7 | 21° 7 | 22°31 | 15°33 | 2°44 | 1°17 | 18° 5 | 6°30 | 5°21 | 20°41 | 3°34 | F 9 |
| S 10 | 9 22 39 | 22° 0'31 | 5 8 55 | 1°15 | 17°20 | 21°36 | 22°30 | 15°29 | 2°46 | 1°19 | 18° 4 | 6°27 | 5°18 | 20°47 | 3°36 | S 10 |
| S 11 | 9 26 36 | 23° 1'06 | 17°48 | 0°28 | 18°34 | 22° 6 | 22°29 | 15°25 | 2°48 | 1°21 | 18° 2 | 6°D25 | 5°15 | 20°54 | 3°38 | S 11 |
| M12 | 9 30 32 | 24° 1'40 | 29°38 | 29≈33 | 19°47 | 22°35 | 22°28 | 15°20 | 2°49 | 1°23 | 18° 1 | 6°25 | 5°12 | 21° 1 | 3°39 | M12 |
| T 13 | 9 34 29 | 25° 2'11 | 11 II 30 | 28°33 | 21° 0 | 23° 4 | 22°26 | 15°16 | 2°51 | 1°26 | 18° 0 | 6°26 | 5° 8 | 21° 7 | 3°41 | T 13 |
| W14 | 9 38 26 | 26° 2'41 | 23°30 | 27°29 | 22°13 | 23°33 | 22°25 | 15°12 | 2°53 | 1°28 | 17°59 | 6°28 | 5° 5 | 21°14 | 3°43 | W14 |
| T 15 | 9 42 22 | 27° 3'09 | 59542 | 26°22 | 23°27 | 24° 2 | 22°23 | 15° 7 | 2°55 | 1°30 | 17°58 | 6°R28 | 5° 2 | 21°21 | 3°45 | T 15 |
| F 16 | 9 46 19 | 28° 3'35 | 18°12 | 25°15 | 24°40 | 24°30 | 22°21 | 15° 3 | 2°56 | 1°33 | 17°58 | 6°28 | 4°59 | 21°27 | 3°48 | F 16 |
| S 17 | 9 50 15 | 29° 3'59 | 1 N 1 | 24° 9 | 25°53 | 24°59 | 22°19 | 14°59 | 2°58 | 1°35 | 17°57 | 6°25 | 4°56 | 21°34 | 3°50 | S 17 |
| S 18 | 9 54 12 | 0) 4'22 | 14°11 | 23° 6 | 27° 7 | 25°27 | 22°16 | 14°54 | 3° 0 | 1°37 | 17°56 | 6°19 | 4°53 | 21°41 | 3°52 | S 18 |
| M19 | 9 58 8 | 1° 4'42 | 27°44 | 22° 6 | 28°20 | 25°55 | 22°14 | 14°50 | 3° 2 | 1°39 | 17°55 | 6°12 | 4°49 | 21°47 | 3°54 | M19 |
| T 20 | 10 2 5 | 2° 5'01 | 11 m 35 | 21°12 | 29°33 | 26°23 | 22°11 | 14°45 | 3° 4 | 1°42 | 17°54 | 6° 3 | 4°46 | 21°54 | 3°56 | T 20 |
| W21 | 10 6 1 | 3° 5'18 | 25°41 | 20°23 | 0≈47 | 26°51 | 22° 8 | 14°40 | 3° 6 | 1°44 | 17°53 | 5°53 | 4°43 | 22° 1 | 3°59 | W21 |
| T 22 | 10 9 58 | 4° 5'34 | 9 ॒ 58 | 19°41 | 2° 0 | 27°18 | 22° 5 | 14°36 | 3° 8 | 1°46 | 17°52 | 5°44 | 4°40 | 22° 7 | 4° 1 | T 22 |
| F 23 | 10 13 55 | 5° 5'48 | 24°19 | 19° 6 | 3°13 | 27°45 | 22° 2 | 14°31 | 3°11 | 1°48 | 17°51 | 5°36 | 4°37 | 22°14 | 4° 4 | F 23 |
| S 24 | 10 17 51 | 6° 6'00 | 8 M .39 | 18°38 | 4°27 | 28°12 | 21°59 | 14°26 | 3°13 | 1°51 | 17°50 | 5°31 | 4°33 | 22°21 | 4° 6 | S 24 |
| S 25 | 10 21 48 | 7° 6'11 | 22°55 | 18°17 | 5°40 | 28°39 | 21°55 | 14°22 | 3°15 | 1°53 | 17°50 | 5°28 | 4°30 | 22°28 | 4° 9 | S 25 |
| M26 | 10 25 44 | 8° 6'21 | 7 ,₹ 4 | 18° 3 | 6°54 | 29° 6 | 21°52 | 14°17 | 3°17 | 1°55 | 17°49 | 5°D27 | 4°27 | 22°34 | 4°11 | M26 |
| T 27 | 10 29 41 | 9° 6'29 | 21° 5 | 17°55 | 8° 7 | 29°32 | 21°48 | 14°12 | 3°20 | 1°58 | 17°48 | 5°27 | 4°24 | 22°41 | 4°14 | T 27 |
| W28 | 10 33 37 | 10 米 6'35 | 4 궁 57 | 17°D55 | 9≈21 | 29M58 | 21 ≏ 44 | 14Mp 7 | 3 8 22 | 2 ∺ 0 | 179547 | 5°R28 | 49521 | 22 8 48 | 4 8 17 | W28 |

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| Day | Sid.t | 0 | D | Ϋ́ | · | ð | 4 | ħ |)Å(| ¥ | Р | ß | S | ţ | ę, | Day |
|------|----------|-------------------|------------------|------------------|----------------|----------------|----------------|-----------------|---------------|--------------|--------|---------------|---------------|----------------|---------------|------|
| T 1 | 10 37 34 | 11 米 6'40 | 18 ට 41 | 18 ≈ 0 | 10≈34 | 0 才 24 | 21°R39 | 14°R 3 | 3 8 24 | 2 ∺ 2 | 17°R47 | 5°R27 | 49518 | 22 8 54 | 4819 | T 1 |
| F 2 | 10 41 30 | 12° 6'43 | 2≈15 | 18°12 | 11°48 | 0°50 | 21 ≏ 35 | 13 m 58 | 3°27 | 2° 4 | 179546 | 59524 | 4°14 | 23° 1 | 4°22 | F 2 |
| S 3 | 10 45 27 | 13° 6'45 | 15°40 | 18°30 | 13° 2 | 1°15 | 21°30 | 13°53 | 3°29 | 2° 7 | 17°45 | 5°18 | 4°11 | 23° 8 | 4°25 | S 3 |
| S 4 | 10 49 24 | 14° 6'44 | 28°54 | 18°52 | 14°15 | 1°40 | 21°26 | 13°48 | 3°32 | 2° 9 | 17°45 | 5°10 | 4° 8 | 23°14 | 4°28 | S 4 |
| M 5 | 10 53 20 | 15° 6'42 | 11) (57 | 19°20 | 15°29 | 2° 5 | 21°21 | 13°44 | 3°34 | 2°11 | 17°44 | 4°59 | 4° 5 | 23°21 | 4°31 | M 5 |
| T 6 | 10 57 17 | 16° 6'38 | 24°46 | 19°52 | 16°42 | 2°30 | 21°16 | 13°39 | 3°37 | 2°13 | 17°44 | 4°46 | 4° 2 | 23°28 | 4°34 | T 6 |
| W 7 | 11 113 | 17° 6'32 | 7 Υ 21 | 20°29 | 17°56 | 2°54 | 21°11 | 13°34 | 3°39 | 2°16 | 17°43 | 4°33 | 3°59 | 23°34 | 4°37 | W 7 |
| T 8 | 11 5 10 | 18° 6'23 | 19°42 | 21° 9 | 19° 9 | 3°18 | 21° 5 | 13°29 | 3°42 | 2°18 | 17°42 | 4°21 | 3°55 | 23°41 | 4°40 | T 8 |
| F 9 | 11 9 6 | 19° 6'13 | 1 8 51 | 21°54 | 20°23 | 3°42 | 21° 0 | 13°25 | 3°45 | 2°20 | 17°42 | 4°11 | 3°52 | 23°48 | 4°43 | F 9 |
| S 10 | 11 13 3 | 20° 6'00 | 13°49 | 22°42 | 21°37 | 4° 5 | 20°54 | 13°20 | 3°47 | 2°22 | 17°41 | 4° 3 | 3°49 | 23°54 | 4°46 | S 10 |
| S 11 | 11 16 59 | 21° 5'46 | 25°40 | 23°33 | 22°50 | 4°28 | 20°48 | 13°15 | 3°50 | 2°24 | 17°41 | 3°57 | 3°46 | 24° 1 | 4°49 | S 11 |
| M12 | 11 20 56 | 22° 5'29 | 7Ⅱ29 | 24°28 | 24° 4 | 4°51 | 20°43 | 13°10 | 3°53 | 2°27 | 17°40 | 3°55 | 3°43 | 24° 8 | 4°52 | M12 |
| T 13 | 11 24 53 | 23° 5'10 | 19°19 | 25°25 | 25°17 | 5°14 | 20°37 | 13° 6 | 3°56 | 2°29 | 17°40 | 3°D54 | 3°39 | 24°14 | 4°55 | T 13 |
| W14 | 11 28 49 | 24° 4'48 | 19518 | 26°25 | 26°31 | 5°36 | 20°30 | 13° 1 | 3°58 | 2°31 | 17°40 | 3°R54 | 3°36 | 24°21 | 4°59 | W14 |
| T 15 | 11 32 46 | 25° 4'25 | 13°29 | 27°28 | 27°45 | 5°58 | 20°24 | 12°56 | 4° 1 | 2°33 | 17°39 | 3°54 | 3°33 | 24°28 | 5° 2 | T 15 |
| F 16 | 11 36 42 | 26° 3'59 | 25°59 | 28°33 | 28°58 | 6°19 | 20°18 | 12°52 | 4° 4 | 2°35 | 17°39 | 3°52 | 3°30 | 24°34 | 5° 5 | F 16 |
| S 17 | 11 40 39 | 27° 3'30 | 8 Ω 51 | 29°41 | 0 ¥ 12 | 6°40 | 20°11 | 12°47 | 4° 7 | 2°37 | 17°38 | 3°48 | 3°27 | 24°41 | 5° 9 | S 17 |
| S 18 | 11 44 35 | 28° 3'00 | 22° 9 | 0 ¥ 51 | 1°26 | 7° 1 | 20° 5 | 12°43 | 4°10 | 2°39 | 17°38 | 3°42 | 3°24 | 24°48 | 5°12 | S 18 |
| M19 | 11 48 32 | 29° 2'27 | 5 m 54 | 2° 3 | 2°39 | 7°22 | 19°58 | 12°38 | 4°13 | 2°41 | 17°38 | 3°33 | 3°20 | 24°54 | 5°15 | M19 |
| T 20 | 11 52 28 | 0 Υ 1'52 | 20° 4 | 3°17 | 3°53 | 7°42 | 19°51 | 12°34 | 4°16 | 2°44 | 17°37 | 3°22 | 3°17 | 25° 1 | 5°19 | T 20 |
| W21 | 11 56 25 | 1° 1'15 | 4 ₾ 33 | 4°33 | 5° 6 | 8° 2 | 19°45 | 12°29 | 4°19 | 2°46 | 17°37 | 3°10 | 3°14 | 25° 8 | 5°22 | W21 |
| T 22 | 12 0 22 | 2° 0'35 | 19°16 | 5°50 | 6°20 | 8°21 | 19°38 | 12°25 | 4°22 | 2°48 | 17°37 | 2°58 | 3°11 | 25°14 | 5°26 | T 22 |
| F 23 | 12 4 18 | 2°59'54 | 4M 5 | 7°10 | 7°34 | 8°40 | 19°31 | 12°21 | 4°25 | 2°50 | 17°37 | 2°48 | 3° 8 | 25°21 | 5°29 | F 23 |
| S 24 | 12 8 15 | 3°59'11 | 18°50 | 8°31 | 8°47 | 8°59 | 19°23 | 12°16 | 4°28 | 2°52 | 17°37 | 2°41 | 3° 5 | 25°28 | 5°33 | S 24 |
| S 25 | 12 12 11 | 4°58'26 | 3 ₹ 25 | 9°54 | 10° 1 | 9°17 | 19°16 | 12°12 | 4°31 | 2°54 | 17°36 | 2°37 | 3° 1 | 25°34 | 5°37 | S 25 |
| M26 | 12 16 8 | 5°57'40 | 17°46 | 11°19 | 11°15 | 9°34 | 19° 9 | 12° 8 | 4°34 | 2°56 | 17°36 | 2°35 | 2°58 | 25°41 | 5°40 | M26 |
| T 27 | 12 20 4 | 6°56'51 | 1 る 50 | 12°46 | 12°28 | 9°52 | 19° 2 | 12° 4 | 4°37 | 2°58 | 17°36 | 2°34 | 2°55 | 25°48 | 5°44 | T 27 |
| W28 | 12 24 1 | 7°56'01 | 15°38 | 14°14 | 13°42 | 10° 9 | 18°54 | 12° 0 | 4°41 | 3° 0 | 17°36 | 2°34 | 2°52 | 25°54 | 5°47 | W28 |
| T 29 | 12 27 57 | 8°55'10 | 29°10 | 15°43 | 14°56 | 10°25 | 18°47 | 11°56 | 4°44 | 3° 2 | 17°36 | 2°33 | 2°49 | 26° 1 | 5°51 | T 29 |
| F 30 | 12 31 54 | 9°54'16 | 12≈28 | 17°14 | 16° 9 | 10°41 | 18°39 | 11°52 | 4°47 | 3° 4 | 17°36 | 2°30 | 2°45 | 26° 8 | 5°55 | F 30 |
| S 31 | 12 35 51 | 10 Y 53'21 | 25≈32 | 18) (47 | 17 ∺ 23 | 10 ₹ 56 | 18 ≏ 32 | 11 M)48 | 4 8 50 | 3 ∺ 5 | 17°D36 | 2 9 24 | 2 9 42 | 26814 | 5 8 59 | S 31 |

Delta T = 20.83 sec

Greg. Calendar

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | В | v | Ω | Ç | ę, | Day |
|------|----------|-------------------|-----------------|-----------------|------------------|-----------------|----------------|-----------------|---------------|----------------|--------|--------|------|----------------|---------------|------|
| S 1 | 12 39 47 | 11 Y 52'23 | 8 ∺ 25 | 20) (21 | 18) (37 | 11 ,7 11 | 18°R24 | 11°R44 | 4 8 53 | 3) € 7 | 17936 | 2°R15 | 2939 | 26821 | 6 8 2 | S 1 |
| M 2 | 12 43 44 | 12°51'24 | 21° 7 | 21°57 | 19°50 | 11°26 | 18 ≏ 17 | 11 m p41 | 4°57 | 3° 9 | 17°36 | 299 3 | 2°36 | 26°28 | 6° 6 | M 2 |
| T 3 | 12 47 40 | 13°50'23 | 3 Υ38 | 23°34 | 21° 4 | 11°40 | 18° 9 | 11°37 | 5° 0 | 3°11 | 17°36 | 1°50 | 2°33 | 26°35 | 6°10 | T 3 |
| W 4 | 12 51 37 | 14°49'20 | 15°59 | 25°13 | 22°18 | 11°53 | 18° 1 | 11°33 | 5° 3 | 3°13 | 17°36 | 1°37 | 2°30 | 26°41 | 6°14 | W 4 |
| T 5 | 12 55 33 | 15°48'14 | 28° 9 | 26°53 | 23°31 | 12° 6 | 17°54 | 11°30 | 5° 7 | 3°15 | 17°36 | 1°24 | 2°26 | 26°48 | 6°18 | T 5 |
| F 6 | 12 59 30 | 16°47'07 | 10 8 11 | 28°35 | 24°45 | 12°18 | 17°46 | 11°26 | 5°10 | 3°16 | 17°37 | 1°13 | 2°23 | 26°55 | 6°22 | F 6 |
| S 7 | 13 3 26 | 17°45'58 | 22° 5 | 0 Υ 18 | 25°59 | 12°30 | 17°38 | 11°23 | 5°13 | 3°18 | 17°37 | 1° 4 | 2°20 | 27° 1 | 6°25 | S 7 |
| S 8 | 13 7 23 | 18°44'46 | 3耳54 | 2° 3 | 27°12 | 12°41 | 17°30 | 11°20 | 5°17 | 3°20 | 17°37 | 0°58 | 2°17 | 27° 8 | 6°29 | S 8 |
| M 9 | 13 11 19 | 19°43'32 | 15°41 | 3°49 | 28°26 | 12°52 | 17°23 | 11°16 | 5°20 | 3°22 | 17°37 | 0°55 | 2°14 | 27°15 | 6°33 | M 9 |
| T 10 | 13 15 16 | 20°42'17 | 27°30 | 5°37 | 29°40 | 13° 2 | 17°15 | 11°13 | 5°23 | 3°23 | 17°37 | 0°D54 | 2°10 | 27°21 | 6°37 | T 10 |
| W11 | 13 19 13 | 21°40'59 | 99527 | 7°27 | 0 Υ 53 | 13°12 | 17° 7 | 11°10 | 5°27 | 3°25 | 17°38 | 0°54 | 2° 7 | 27°28 | 6°41 | W11 |
| T 12 | 13 23 9 | 22°39'38 | 21°37 | 9°18 | 2° 7 | 13°21 | 17° 0 | 11° 7 | 5°30 | 3°27 | 17°38 | 0°R54 | 2° 4 | 27°35 | 6°45 | T 12 |
| F 13 | 13 27 6 | 23°38'16 | 4Ω 4 | 11°10 | 3°20 | 13°29 | 16°52 | 11° 4 | 5°33 | 3°28 | 17°38 | 0°54 | 2° 1 | 27°41 | 6°49 | F 13 |
| S 14 | 13 31 2 | 24°36'51 | 16°54 | 13° 5 | 4°34 | 13°36 | 16°45 | 11° 2 | 5°37 | 3°30 | 17°39 | 0°51 | 1°58 | 27°48 | 6°53 | S 14 |
| S 15 | 13 34 59 | 25°35'24 | 0 m 10 | 15° 0 | 5°48 | 13°43 | 16°37 | 10°59 | 5°40 | 3°31 | 17°39 | 0°47 | 1°55 | 27°55 | 6°57 | S 15 |
| M16 | 13 38 55 | 26°33'55 | 13°56 | 16°58 | 7° 1 | 13°50 | 16°29 | 10°56 | 5°44 | 3°33 | 17°39 | 0°40 | 1°51 | 28° 1 | 7° 1 | M16 |
| T 17 | 13 42 52 | 27°32'23 | 28°11 | 18°57 | 8°15 | 13°56 | 16°22 | 10°54 | 5°47 | 3°35 | 17°40 | 0°32 | 1°48 | 28° 8 | 7° 5 | T 17 |
| W18 | 13 46 48 | 28°30'50 | 12 ≏ 50 | 20°57 | 9°29 | 14° 1 | 16°15 | 10°51 | 5°51 | 3°36 | 17°40 | 0°22 | 1°45 | 28°15 | 7° 9 | W18 |
| T 19 | 13 50 45 | 29°29'14 | 27°48 | 22°59 | 10°42 | 14° 5 | 16° 7 | 10°49 | 5°54 | 3°38 | 17°41 | 0°13 | 1°42 | 28°21 | 7°13 | T 19 |
| F 20 | 13 54 42 | 0 8 27'37 | 12ML55 | 25° 2 | 11°56 | 14° 9 | 16° 0 | 10°47 | 5°57 | 3°39 | 17°41 | 0° 5 | 1°39 | 28°28 | 7°17 | F 20 |
| S 21 | 13 58 38 | 1°25'58 | 28° 2 | 27° 7 | 13° 9 | 14°12 | 15°53 | 10°44 | 6° 1 | 3°40 | 17°42 | 29∏59 | 1°36 | 28°35 | 7°21 | S 21 |
| S 22 | 14 2 35 | 2°24'17 | 12 × 758 | 29°12 | 14°23 | 14°14 | 15°46 | 10°42 | 6° 4 | 3°42 | 17°42 | 29°56 | 1°32 | 28°41 | 7°25 | S 22 |
| M23 | 14 631 | 3°22'35 | 27°37 | 1819 | 15°37 | 14°15 | 15°39 | 10°40 | 6° 8 | 3°43 | 17°43 | 29°D55 | 1°29 | 28°48 | 7°29 | M23 |
| T 24 | 14 10 28 | 4°20'51 | 11 る 55 | 3°27 | 16°50 | 14°16 | 15°32 | 10°39 | 6°11 | 3°45 | 17°43 | 29°55 | 1°26 | 28°55 | 7°34 | T 24 |
| W25 | 14 14 24 | 5°19'06 | 25°50 | 5°36 | 18° 4 | 14°R16 | 15°25 | 10°37 | 6°15 | 3°46 | 17°44 | 29°56 | 1°23 | 29° 1 | 7°38 | W25 |
| T 26 | 14 18 21 | 6°17'19 | 9≈23 | 7°45 | 19°17 | 14°16 | 15°18 | 10°35 | 6°18 | 3°47 | 17°45 | 29°R56 | 1°20 | 29° 8 | 7°42 | T 26 |
| F 27 | 14 22 17 | 7°15'31 | 22°36 | 9°55 | 20°31 | 14°14 | 15°11 | 10°33 | 6°22 | 3°48 | 17°45 | 29°55 | 1°16 | 29°15 | 7°46 | F 27 |
| S 28 | 14 26 14 | 8°13'41 | 5 ∺ 30 | 12° 4 | 21°45 | 14°12 | 15° 5 | 10°32 | 6°25 | 3°50 | 17°46 | 29°52 | 1°13 | 29°21 | 7°50 | S 28 |
| S 29 | 14 30 11 | 9°11'50 | 18°10 | 14°14 | 22°58 | 14° 9 | 14°58 | 10°31 | 6°29 | 3°51 | 17°47 | 29°46 | 1°10 | 29°28 | 7°54 | S 29 |
| M30 | 14 34 7 | 10 8 9'57 | 0 Υ 37 | 16823 | 24 Υ 12 | 14 才 6 | 14 ≏ 52 | 10 m 29 | 6 8 32 | 3 ∺ 52 | 179547 | 29耳39 | 199 | 29 8 35 | 7 8 58 | M30 |

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|------|----------|----------|----------------|----------------|----------------|----------------|----------------|-----------------|---------------|-----------------|--------|--------|----------------|--------------|---------------|------|
| T 1 | 14 38 4 | 118 8'02 | 12 Y 53 | 18 8 31 | 25 Y 25 | 14°R 1 | 14°R45 | 10°R28 | 6 8 36 | 3 ∺ 53 | 179548 | 29°R30 | 199 4 | 29841 | 8 8 2 | T 1 |
| W 2 | 14 42 0 | 12° 6'06 | 25° 0 | 20°38 | 26°39 | 13 ∡ 56 | 14 ≏ 39 | 10 m 27 | 6°39 | 3°54 | 17°49 | 29Ⅱ21 | 1° 1 | 29°48 | 8° 6 | W 2 |
| T 3 | 14 45 57 | 13° 4'09 | 7 と 0 | 22°44 | 27°53 | 13°50 | 14°33 | 10°26 | 6°42 | 3°55 | 17°50 | 29°13 | 0°57 | 29°55 | 8°10 | T 3 |
| F 4 | 14 49 53 | 14° 2'10 | 18°54 | 24°48 | 29° 6 | 13°43 | 14°27 | 10°25 | 6°46 | 3°56 | 17°50 | 29° 5 | 0°54 | 0耳 1 | 8°14 | F 4 |
| S 5 | 14 53 50 | 15° 0'09 | 0∏44 | 26°50 | 0820 | 13°36 | 14°21 | 10°24 | 6°49 | 3°57 | 17°51 | 29° 0 | 0°51 | 0° 8 | 8°18 | S 5 |
| S 6 | 14 57 46 | 15°58'07 | 12°31 | 28°51 | 1°33 | 13°27 | 14°16 | 10°24 | 6°53 | 3°58 | 17°52 | 28°56 | 0°48 | 0°15 | 8°22 | S 6 |
| M 7 | 15 1 43 | 16°56'03 | 24°19 | 0∏48 | 2°47 | 13°18 | 14°10 | 10°23 | 6°56 | 3°59 | 17°53 | 28°D55 | 0°45 | 0°21 | 8°26 | M 7 |
| T 8 | 15 5 40 | 17°53'57 | 69910 | 2°44 | 4° 0 | 13° 9 | 14° 5 | 10°23 | 7° 0 | 4° 0 | 17°54 | 28°55 | 0°42 | 0°28 | 8°30 | T 8 |
| W 9 | 15 9 36 | 18°51'50 | 18° 9 | 4°36 | 5°14 | 12°58 | 13°59 | 10°22 | 7° 3 | 4° 1 | 17°55 | 28°56 | 0°38 | 0°35 | 8°34 | W 9 |
| T 10 | 15 13 33 | 19°49'41 | 0Ω 19 | 6°26 | 6°28 | 12°47 | 13°54 | 10°22 | 7° 6 | 4° 2 | 17°56 | 28°58 | 0°35 | 0°41 | 8°38 | T 10 |
| F 11 | 15 17 29 | 20°47'30 | 12°46 | 8°13 | 7°41 | 12°35 | 13°49 | 10°22 | 7°10 | 4° 3 | 17°57 | 28°59 | 0°32 | 0°48 | 8°42 | F 11 |
| S 12 | 15 21 26 | 21°45'18 | 25°33 | 9°57 | 8°55 | 12°23 | 13°44 | 10°D22 | 7°13 | 4° 4 | 17°58 | 28°R59 | 0°29 | 0°55 | 8°47 | S 12 |
| S 13 | 15 25 22 | 22°43'03 | 8 Mp 45 | 11°37 | 10°8 | 12° 9 | 13°40 | 10°22 | 7°17 | 4° 5 | 17°59 | 28°58 | 0°26 | 1° 1 | 8°50 | S 13 |
| M14 | 15 29 19 | 23°40'47 | 22°25 | 13°14 | 11°22 | 11°55 | 13°35 | 10°22 | 7°20 | 4° 5 | 18° 0 | 28°55 | 0°22 | 1°8 | 8°54 | M14 |
| T 15 | 15 33 15 | 24°38'30 | 6 ₽ 33 | 14°48 | 12°35 | 11°41 | 13°31 | 10°22 | 7°23 | 4° 6 | 18° 1 | 28°51 | 0°19 | 1°15 | 8°58 | T 15 |
| W16 | 15 37 12 | 25°36'10 | 21° 8 | 16°19 | 13°49 | 11°26 | 13°27 | 10°23 | 7°27 | 4° 7 | 18° 2 | 28°47 | 0°16 | 1°21 | 9° 2 | W16 |
| T 17 | 15 41 9 | 26°33'50 | 6M 4 | 17°46 | 15° 3 | 11°10 | 13°23 | 10°23 | 7°30 | 4° 7 | 18° 3 | 28°42 | 0°13 | 1°28 | 9° 6 | T 17 |
| F 18 | 15 45 5 | 27°31'28 | 21°15 | 19°10 | 16°16 | 10°54 | 13°19 | 10°24 | 7°33 | 4° 8 | 18° 4 | 28°38 | 0°10 | 1°35 | 9°10 | F 18 |
| S 19 | 15 49 2 | 28°29'04 | 6 ₮ 30 | 20°31 | 17°30 | 10°37 | 13°15 | 10°25 | 7°37 | 4° 9 | 18° 5 | 28°35 | 0° 7 | 1°41 | 9°14 | S 19 |
| S 20 | 15 52 58 | 29°26'40 | 21°38 | 21°48 | 18°43 | 10°20 | 13°12 | 10°25 | 7°40 | 4° 9 | 18° 6 | 28°D34 | 0° 3 | 1°48 | 9°18 | S 20 |
| M21 | 15 56 55 | 0∏24'14 | 6 ප 32 | 23° 1 | 19°57 | 10° 2 | 13° 8 | 10°26 | 7°43 | 4°10 | 18° 7 | 28°34 | 0° 0 | 1°55 | 9°22 | M21 |
| T 22 | 16 051 | 1°21'48 | 21° 5 | 24°11 | 21°10 | 9°44 | 13° 5 | 10°27 | 7°46 | 4°10 | 18° 8 | 28°35 | 29 Ⅱ 57 | 2° 1 | 9°26 | T 22 |
| W23 | 16 4 48 | 2°19'20 | 5≈12 | 25°17 | 22°24 | 9°26 | 13° 2 | 10°28 | 7°50 | 4°11 | 18°10 | 28°37 | 29°54 | 2° 8 | 9°30 | W23 |
| T 24 | 16 8 44 | 3°16'52 | 18°54 | 26°19 | 23°37 | 9° 7 | 12°59 | 10°30 | 7°53 | 4°11 | 18°11 | 28°38 | 29°51 | 2°15 | 9°34 | T 24 |
| F 25 | 16 12 41 | 4°14'22 | 2 ∺ 10 | 27°17 | 24°51 | 8°47 | 12°56 | 10°31 | 7°56 | 4°12 | 18°12 | 28°R39 | 29°48 | 2°21 | 9°37 | F 25 |
| S 26 | 16 16 38 | 5°11'52 | 15° 4 | 28°12 | 26° 5 | 8°28 | 12°54 | 10°32 | 7°59 | 4°12 | 18°13 | 28°38 | 29°44 | 2°28 | 9°41 | S 26 |
| S 27 | 16 20 34 | 6° 9'21 | 27°40 | 29° 3 | 27°18 | 8° 8 | 12°51 | 10°34 | 8° 2 | 4°12 | 18°14 | 28°37 | 29°41 | 2°34 | 9°45 | S 27 |
| M28 | 16 24 31 | 7° 6'49 | 9 Υ 59 | 29°49 | 28°32 | 7°48 | 12°49 | 10°35 | 8° 5 | 4°13 | 18°16 | 28°34 | 29°38 | 2°41 | 9°49 | M28 |
| T 29 | 16 28 27 | 8° 4'17 | 22° 7 | 0932 | 29°45 | 7°28 | 12°47 | 10°37 | 8° 9 | 4°13 | 18°17 | 28°32 | 29°35 | 2°48 | 9°52 | T 29 |
| W30 | 16 32 24 | 9° 1'43 | 4 8 5 | 1°10 | 0Д59 | 7° 8 | 12°45 | 10°39 | 8°12 | 4°13 | 18°18 | 28°28 | 29°32 | 2°54 | 9°56 | W30 |
| T 31 | 16 36 20 | 9∏59'09 | 15 8 58 | 19544 | 2 Ⅱ 12 | 6 ₮ 47 | 12 ≏ 44 | 10 M /41 | 8 8 15 | 4) (13 | 189520 | 28Ⅲ25 | 29Ⅱ28 | 3 I 1 | 10 8 0 | T 31 |

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Greg. Calendar

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| Day | Sid.t | 0 | D | ğ | Ф | ♂ | 4 | ħ |)Å(| Ħ | В | N. | v | Ç | Š | Day |
|------|----------|-------------------|-----------------|-------|-------|--------------|----------------|----------------|---------------|----------------|--------|-----------------|----------------|----------------|-------|------|
| F 1 | 16 40 17 | 10 Ⅱ 56'34 | 27847 | 29514 | 3Д26 | 6°R27 | 12°R42 | 10 m 43 | 8 8 18 | 4) (13 | 18921 | 28°R23 | 29Ⅱ25 | 3 I I 8 | 108 3 | F 1 |
| S 2 | 16 44 13 | 11°53'59 | 9 Ⅱ 34 | 2°40 | 4°40 | 6 ₹ 7 | 12 ≏ 41 | 10°45 | 8°21 | 4°14 | 18°22 | 28耳21 | 29°22 | 3°14 | 10° 7 | S 2 |
| S 3 | 16 48 10 | 12°51'22 | 21°23 | 3° 0 | 5°53 | 5°47 | 12°40 | 10°47 | 8°24 | 4°14 | 18°23 | 28°20 | 29°19 | 3°21 | 10°11 | S 3 |
| M 4 | 16 52 7 | 13°48'45 | 3 9 515 | 3°17 | 7° 7 | 5°27 | 12°39 | 10°49 | 8°27 | 4°14 | 18°25 | 28°D20 | 29°16 | 3°28 | 10°14 | M 4 |
| T 5 | 16 56 3 | 14°46'07 | 15°13 | 3°28 | 8°20 | 5° 7 | 12°38 | 10°52 | 8°30 | 4°14 | 18°26 | 28°21 | 29°13 | 3°34 | 10°18 | T 5 |
| W 6 | 17 0 0 | 15°43'28 | 27°19 | 3°36 | 9°34 | 4°47 | 12°38 | 10°54 | 8°33 | 4°R14 | 18°28 | 28°22 | 29° 9 | 3°41 | 10°21 | W 6 |
| T 7 | 17 3 56 | 16°40'48 | 9Ω 36 | 3°R38 | 10°48 | 4°28 | 12°37 | 10°57 | 8°36 | 4°14 | 18°29 | 28°23 | 29° 6 | 3°48 | 10°25 | T 7 |
| F 8 | 17 7 53 | 17°38'07 | 22° 8 | 3°36 | 12° 1 | 4° 9 | 12°37 | 10°59 | 8°39 | 4°14 | 18°30 | 28°24 | 29° 3 | 3°54 | 10°28 | F 8 |
| S 9 | 17 11 49 | 18°35'25 | 4 m 57 | 3°30 | 13°15 | 3°50 | 12°D37 | 11° 2 | 8°41 | 4°14 | 18°32 | 28°25 | 29° 0 | 4° 1 | 10°32 | S 9 |
| S 10 | 17 15 46 | 19°32'42 | 18° 7 | 3°19 | 14°29 | 3°32 | 12°37 | 11° 5 | 8°44 | 4°14 | 18°33 | 28°R25 | 28°57 | 4° 8 | 10°35 | S 10 |
| M11 | 17 19 42 | 20°29'59 | 1 ≏ 40 | 3° 5 | 15°42 | 3°14 | 12°38 | 11°8 | 8°47 | 4°13 | 18°35 | 28°25 | 28°54 | 4°14 | 10°38 | M11 |
| T 12 | 17 23 39 | 21°27'14 | 15°38 | 2°46 | 16°56 | 2°57 | 12°38 | 11°11 | 8°50 | 4°13 | 18°36 | 28°24 | 28°50 | 4°21 | 10°42 | T 12 |
| W13 | 17 27 36 | 22°24'29 | 29°59 | 2°24 | 18° 9 | 2°40 | 12°39 | 11°14 | 8°52 | 4°13 | 18°38 | 28°24 | 28°47 | 4°28 | 10°45 | W13 |
| T 14 | 17 31 32 | 23°21'42 | 14 M .43 | 1°58 | 19°23 | 2°24 | 12°40 | 11°17 | 8°55 | 4°13 | 18°39 | 28°23 | 28°44 | 4°34 | 10°48 | T 14 |
| F 15 | 17 35 29 | 24°18'56 | 29°42 | 1°30 | 20°37 | 2° 8 | 12°41 | 11°21 | 8°58 | 4°12 | 18°40 | 28°23 | 28°41 | 4°41 | 10°52 | F 15 |
| S 16 | 17 39 25 | 25°16'08 | 14 × 149 | 0°59 | 21°50 | 1°53 | 12°42 | 11°24 | 9° 1 | 4°12 | 18°42 | 28°22 | 28°38 | 4°48 | 10°55 | S 16 |
| S 17 | 17 43 22 | 26°13'21 | 29°55 | 0°26 | 23° 4 | 1°38 | 12°43 | 11°28 | 9° 3 | 4°12 | 18°43 | 28°D22 | 28°34 | 4°54 | 10°58 | S 17 |
| M18 | 17 47 18 | 27°10'32 | 14 る 52 | 29∏52 | 24°18 | 1°25 | 12°45 | 11°31 | 9° 6 | 4°11 | 18°45 | 28°22 | 28°31 | 5° 1 | 11° 1 | M18 |
| T 19 | 17 51 15 | 28° 7'44 | 29°31 | 29°17 | 25°31 | 1°11 | 12°47 | 11°35 | 9° 8 | 4°11 | 18°46 | 28°R23 | 28°28 | 5° 8 | 11° 4 | T 19 |
| W20 | 17 55 12 | 29° 4'56 | 13 ≈ 47 | 28°42 | 26°45 | 0°59 | 12°49 | 11°39 | 9°11 | 4°11 | 18°48 | 28°23 | 28°25 | 5°14 | 11° 7 | W20 |
| T 21 | 17 59 8 | 0ණ 2'07 | 27°38 | 28° 7 | 27°59 | 0°47 | 12°51 | 11°43 | 9°13 | 4°10 | 18°50 | 28°22 | 28°22 | 5°21 | 11°10 | T 21 |
| F 22 | 18 3 5 | 0°59'18 | 11) (1 | 27°34 | 29°12 | 0°36 | 12°53 | 11°46 | 9°16 | 4°10 | 18°51 | 28°22 | 28°19 | 5°28 | 11°13 | F 22 |
| S 23 | 18 7 1 | 1°56'29 | 24° 0 | 27° 1 | 0926 | 0°26 | 12°55 | 11°50 | 9°18 | 4° 9 | 18°53 | 28°22 | 28°15 | 5°34 | 11°16 | S 23 |
| S 24 | 18 10 58 | 2°53'41 | 6 Ƴ 37 | 26°31 | 1°40 | 0°17 | 12°58 | 11°55 | 9°20 | 4° 9 | 18°54 | 28°D22 | 28°12 | 5°41 | 11°19 | S 24 |
| M25 | 18 14 54 | 3°50'52 | 18°55 | 26° 4 | 2°53 | 0° 8 | 13° 1 | 11°59 | 9°23 | 4° 8 | 18°56 | 28°22 | 28° 9 | 5°48 | 11°22 | M25 |
| T 26 | 18 18 51 | 4°48'04 | 0 8 59 | 25°40 | 4° 7 | 0° 0 | 13° 4 | 12° 3 | 9°25 | 4° 7 | 18°57 | 28°23 | 28° 6 | 5°54 | 11°25 | T 26 |
| W27 | 18 22 47 | 5°45'15 | 12°54 | 25°19 | 5°21 | 29M53 | 13° 7 | 12° 7 | 9°27 | 4° 7 | 18°59 | 28°23 | 28° 3 | 6° 1 | 11°27 | W27 |
| T 28 | 18 26 44 | 6°42'27 | 24°43 | 25° 2 | 6°35 | 29°47 | 13°10 | 12°12 | 9°30 | 4° 6 | 19° 0 | 28°24 | 28° 0 | 6° 8 | 11°30 | T 28 |
| F 29 | 18 30 41 | 7°39'39 | 6 Ⅲ 31 | 24°50 | 7°48 | 29°42 | 13°14 | 12°16 | 9°32 | 4° 5 | 19° 2 | 28°25 | 27°56 | 6°14 | 11°33 | F 29 |
| S 30 | 18 34 37 | 8936'52 | 18 Ⅲ 20 | 24∏42 | 995 2 | 29M38 | 13 ≏ 17 | 12 M 21 | 9 8 34 | 4) 5 | 1995 4 | 28 II 26 | 27 Ⅲ 53 | 6 Ⅱ 21 | 11836 | S 30 |

Delta T = 20.70 sec

JULY 1685 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | P | ♂ | 4 | ħ |)f(| ¥ | Р | n | Ω | ţ | , o | Day |
|------|----------|--------------------|----------------|--------|----------------|----------------|----------------|----------------|---------------|---------------|--------|-----------------|-------|---------------|----------------|------|
| S 1 | 18 38 34 | 9934'04 | 09513 | 24°D39 | 109516 | 29°R34 | 13 ≏ 21 | 12 m 25 | 9 8 36 | 4°R 4 | 1995 5 | 28°R26 | 27耳50 | 6Д28 | 11838 | S 1 |
| M 2 | 18 42 30 | 10°31'17 | 12°13 | 24∏40 | 11°30 | 29 M 31 | 13°25 | 12°30 | 9°38 | 4 ∺ 3 | 19° 7 | 28Ⅲ25 | 27°47 | 6°34 | 11°41 | M 2 |
| T 3 | 18 46 27 | 11°28'29 | 24°22 | 24°47 | 12°43 | 29°29 | 13°29 | 12°35 | 9°40 | 4° 2 | 19° 8 | 28°24 | 27°44 | 6°41 | 11°43 | T 3 |
| W 4 | 18 50 23 | 12°25'42 | 6 Ω 41 | 24°59 | 13°57 | 29°28 | 13°33 | 12°40 | 9°42 | 4° 1 | 19°10 | 28°23 | 27°40 | 6°48 | 11°46 | W 4 |
| T 5 | 18 54 20 | 13°22'55 | 19°12 | 25°16 | 15°11 | 29°D28 | 13°38 | 12°45 | 9°44 | 4° 1 | 19°12 | 28°21 | 27°37 | 6°54 | 11°48 | T 5 |
| F 6 | 18 58 16 | 14°20'08 | 1 m 57 | 25°38 | 16°25 | 29°28 | 13°42 | 12°50 | 9°46 | 4° 0 | 19°13 | 28°19 | 27°34 | 7° 1 | 11°50 | F 6 |
| S 7 | 19 2 13 | 15°17'20 | 14°57 | 26° 6 | 17°39 | 29°30 | 13°47 | 12°55 | 9°48 | 3°59 | 19°15 | 28°17 | 27°31 | 7° 7 | 11°53 | S 7 |
| S 8 | 19 6 10 | 16°14'33 | 28°12 | 26°39 | 18°53 | 29°32 | 13°52 | 13° 0 | 9°50 | 3°58 | 19°16 | 28°15 | 27°28 | 7°14 | 11°55 | S 8 |
| M 9 | 19 10 6 | 17°11'46 | 11 ≏ 45 | 27°17 | 20° 6 | 29°35 | 13°57 | 13° 5 | 9°52 | 3°57 | 19°18 | 28°D14 | 27°25 | 7°21 | 11°57 | M 9 |
| T 10 | 19 14 3 | 18° 8'59 | 25°36 | 28° 0 | 21°20 | 29°39 | 14° 2 | 13°10 | 9°53 | 3°56 | 19°20 | 28°14 | 27°21 | 7°27 | 11°59 | T 10 |
| W11 | 19 17 59 | 19° 6'11 | 9 M .45 | 28°48 | 22°34 | 29°44 | 14° 8 | 13°16 | 9°55 | 3°55 | 19°21 | 28°15 | 27°18 | 7°34 | 12° 2 | W11 |
| T 12 | 19 21 56 | 20° 3'24 | 24°10 | 29°42 | 23°48 | 29°50 | 14°13 | 13°21 | 9°57 | 3°54 | 19°23 | 28°16 | 27°15 | 7°41 | 12° 4 | T 12 |
| F 13 | 19 25 52 | 21° 0'38 | 8 . 748 | 09540 | 25° 2 | 29°56 | 14°19 | 13°27 | 9°58 | 3°53 | 19°24 | 28°18 | 27°12 | 7°47 | 12° 6 | F 13 |
| S 14 | 19 29 49 | 21°57'51 | 23°35 | 1°43 | 26°16 | 0 ∡ 7 3 | 14°25 | 13°32 | 10° 0 | 3°52 | 19°26 | 28°R18 | 27° 9 | 7°54 | 12° 8 | S 14 |
| S 15 | 19 33 45 | 22°55'05 | 8 궁 25 | 2°52 | 27°29 | 0°11 | 14°31 | 13°38 | 10° 1 | 3°50 | 19°28 | 28°18 | 27° 6 | 8° 1 | 12°10 | S 15 |
| M16 | 19 37 42 | 23°52'19 | 23°10 | 4° 5 | 28°43 | 0°20 | 14°37 | 13°43 | 10° 3 | 3°49 | 19°29 | 28°17 | 27° 2 | 8° 7 | 12°11 | M16 |
| T 17 | 19 41 39 | 24°49'34 | 7 ≈ 43 | 5°22 | 29°57 | 0°29 | 14°43 | 13°49 | 10° 4 | 3°48 | 19°31 | 28°14 | 26°59 | 8°14 | 12°13 | T 17 |
| W18 | 19 45 35 | 25°46'50 | 21°58 | 6°45 | 1 Q 11 | 0°39 | 14°49 | 13°55 | 10° 6 | 3°47 | 19°32 | 28°10 | 26°56 | 8°21 | 12°15 | W18 |
| T 19 | 19 49 32 | 26°44'06 | 5 ₩ 50 | 8°11 | 2°25 | 0°50 | 14°56 | 14° 1 | 10° 7 | 3°46 | 19°34 | 28° 6 | 26°53 | 8°27 | 12°17 | T 19 |
| F 20 | 19 53 28 | 27°41'23 | 19°18 | 9°43 | 3°39 | 1° 2 | 15° 2 | 14° 7 | 10° 8 | 3°44 | 19°36 | 28° 2 | 26°50 | 8°34 | 12°18 | F 20 |
| S 21 | 19 57 25 | 28°38'40 | 2 Υ 20 | 11°18 | 4°53 | 1°14 | 15° 9 | 14°13 | 10°10 | 3°43 | 19°37 | 27°59 | 26°46 | 8°41 | 12°20 | S 21 |
| S 22 | 20 1 21 | 29°35'59 | 14°59 | 12°57 | 6° 7 | 1°27 | 15°16 | 14°19 | 10°11 | 3°42 | 19°39 | 27°57 | 26°43 | 8°47 | 12°21 | S 22 |
| M23 | 20 5 18 | 0 Ω 33'19 | 27°19 | 14°40 | 7°21 | 1°40 | 15°23 | 14°25 | 10°12 | 3°41 | 19°40 | 27°D56 | 26°40 | 8°54 | 12°23 | M23 |
| T 24 | 20 9 14 | 1°30'40 | 9824 | 16°27 | 8°35 | 1°55 | 15°30 | 14°31 | 10°13 | 3°39 | 19°42 | 27°56 | 26°37 | 9° 1 | 12°24 | T 24 |
| W25 | 20 13 11 | 2°28'02 | 21°18 | 18°17 | 9°49 | 2°10 | 15°37 | 14°37 | 10°14 | 3°38 | 19°44 | 27°57 | 26°34 | 9° 7 | 12°26 | W25 |
| T 26 | 20 17 8 | 3°25'25 | 3 I 7 | 20° 9 | 11° 3 | 2°25 | 15°45 | 14°43 | 10°15 | 3°37 | 19°45 | 27°59 | 26°31 | 9°14 | 12°27 | T 26 |
| F 27 | 20 21 4 | 4°22'49 | 14°55 | 22° 5 | 12°16 | 2°41 | 15°52 | 14°49 | 10°16 | 3°35 | 19°47 | 28° 0 | 26°27 | 9°21 | 12°28 | F 27 |
| S 28 | 20 25 1 | 5°20'14 | 26°47 | 24° 3 | 13°30 | 2°58 | 16° 0 | 14°56 | 10°17 | 3°34 | 19°48 | 28°R 1 | 26°24 | 9°27 | 12°30 | S 28 |
| S 29 | 20 28 57 | 6°17'41 | 89346 | 26° 2 | 14°44 | 3°16 | 16° 8 | 15° 2 | 10°18 | 3°32 | 19°50 | 28° 0 | 26°21 | 9°34 | 12°31 | S 29 |
| M30 | 20 32 54 | 7°15'08 | 20°57 | 28° 3 | 15°58 | 3°34 | 16°16 | 15° 8 | 10°19 | 3°31 | 19°51 | 27°58 | 26°18 | 9°40 | 12°32 | M30 |
| T 31 | 20 36 50 | 8 Ω 12'36 | 3 Ω 19 | ON 6 | 17 Ω 12 | 3 , ₹53 | 16 ≏ 24 | 15 M 15 | 10820 | 3 ∺ 30 | 19953 | 27 I I54 | 26耳15 | 9 Ⅱ 47 | 12 8 33 | T 31 |

Delta T = 20.66 sec

Greg. Calendar

AUGUST 1685 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ [™] | 4 | ħ | 'n | ¥ | Р | ß | u | Ç | ę, | Day |
|------|----------|--------------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|--------|-----------------|-----------------|-----------------|----------------|------|
| W 1 | 20 40 47 | 9 Ω 10'06 | 15 Ω 56 | 2 N 9 | 18 Ω 26 | 4 √ 12 | 16 ≏ 32 | 15 m 21 | 10820 | 3°R28 | 199554 | 27°R48 | 26 I I12 | 9 Ⅱ 54 | 12 8 34 | W 1 |
| T 2 | 20 44 43 | 10° 7'36 | 28°47 | 4°13 | 19°41 | 4°32 | 16°40 | 15°28 | 10°21 | 3 ∺ 27 | 19°56 | 27 Ⅱ 41 | 26° 8 | 10° 0 | 12°35 | T 2 |
| F 3 | 20 48 40 | 11° 5'08 | 11 m 52 | 6°17 | 20°55 | 4°52 | 16°49 | 15°35 | 10°22 | 3°25 | 19°58 | 27°34 | 26° 5 | 10° 7 | 12°36 | F 3 |
| S 4 | 20 52 37 | 12° 2'40 | 25°10 | 8°22 | 22° 9 | 5°13 | 16°57 | 15°41 | 10°22 | 3°24 | 19°59 | 27°27 | 26° 2 | 10°14 | 12°36 | S 4 |
| S 5 | 20 56 33 | 13° 0'13 | 8 ≏ 41 | 10°25 | 23°23 | 5°35 | 17° 6 | 15°48 | 10°23 | 3°22 | 20° 1 | 27°21 | 25°59 | 10°20 | 12°37 | S 5 |
| M 6 | 21 0 30 | 13°57'47 | 22°23 | 12°29 | 24°37 | 5°57 | 17°15 | 15°55 | 10°23 | 3°21 | 20° 2 | 27°17 | 25°56 | 10°27 | 12°38 | M 6 |
| T 7 | 21 4 26 | 14°55'22 | 6 M .15 | 14°31 | 25°51 | 6°19 | 17°23 | 16° 1 | 10°24 | 3°19 | 20° 4 | 27°15 | 25°52 | 10°34 | 12°38 | T 7 |
| W 8 | 21 8 23 | 15°52'58 | 20°18 | 16°33 | 27° 5 | 6°42 | 17°32 | 16° 8 | 10°24 | 3°18 | 20° 5 | 27°D15 | 25°49 | 10°40 | 12°39 | W 8 |
| T 9 | 21 12 19 | 16°50'35 | 4 ₹ 29 | 18°34 | 28°19 | 7° 6 | 17°41 | 16°15 | 10°24 | 3°16 | 20° 6 | 27°16 | 25°46 | 10°47 | 12°40 | T 9 |
| F 10 | 21 16 16 | 17°48'13 | 18°47 | 20°34 | 29°33 | 7°30 | 17°51 | 16°22 | 10°25 | 3°14 | 20° 8 | 27°17 | 25°43 | 10°54 | 12°40 | F 10 |
| S 11 | 21 20 12 | 18°45'52 | 3 ਰ 11 | 22°33 | 0 m /47 | 7°55 | 18° 0 | 16°29 | 10°25 | 3°13 | 20° 9 | 27°R17 | 25°40 | 11° 0 | 12°40 | S 11 |
| S 12 | 21 24 9 | 19°43'32 | 17°36 | 24°30 | 2° 1 | 8°20 | 18° 9 | 16°36 | 10°25 | 3°11 | 20°11 | 27°15 | 25°37 | 11° 7 | 12°41 | S 12 |
| M13 | 21 28 6 | 20°41'14 | 1≈59 | 26°26 | 3°15 | 8°45 | 18°19 | 16°43 | 10°25 | 3°10 | 20°12 | 27°11 | 25°33 | 11°14 | 12°41 | M13 |
| T 14 | 21 32 2 | 21°38'56 | 16°13 | 28°21 | 4°29 | 9°11 | 18°28 | 16°50 | 10°25 | 3° 8 | 20°14 | 27° 5 | 25°30 | 11°20 | 12°41 | T 14 |
| W15 | 21 35 59 | 22°36'40 | 0) (14 | 0 m p 14 | 5°43 | 9°37 | 18°38 | 16°57 | 10°R25 | 3° 6 | 20°15 | 26°57 | 25°27 | 11°27 | 12°41 | W15 |
| T 16 | 21 39 55 | 23°34'25 | 13°58 | 2° 6 | 6°57 | 10° 4 | 18°48 | 17° 4 | 10°25 | 3° 5 | 20°16 | 26°48 | 25°24 | 11°34 | 12°41 | T 16 |
| F 17 | 21 43 52 | 24°32'12 | 27°20 | 3°57 | 8°11 | 10°31 | 18°57 | 17°11 | 10°25 | 3° 3 | 20°18 | 26°38 | 25°21 | 11°40 | 12°R41 | F 17 |
| S 18 | 21 47 48 | 25°30'00 | 10 Y 21 | 5°47 | 9°25 | 10°59 | 19° 7 | 17°18 | 10°25 | 3° 2 | 20°19 | 26°30 | 25°17 | 11°47 | 12°41 | S 18 |
| S 19 | 21 51 45 | 26°27'50 | 23° 0 | 7°34 | 10°39 | 11°27 | 19°17 | 17°25 | 10°25 | 3° 0 | 20°21 | 26°23 | 25°14 | 11°53 | 12°41 | S 19 |
| M20 | 21 55 41 | 27°25'42 | 5 8 20 | 9°21 | 11°53 | 11°55 | 19°27 | 17°32 | 10°25 | 2°58 | 20°22 | 26°18 | 25°11 | 12° 0 | 12°41 | M20 |
| T 21 | 21 59 38 | 28°23'35 | 17°25 | 11° 6 | 13° 7 | 12°24 | 19°38 | 17°40 | 10°25 | 2°57 | 20°23 | 26°16 | 25° 8 | 12° 7 | 12°41 | T 21 |
| W22 | 22 3 35 | 29°21'30 | 29°19 | 12°50 | 14°21 | 12°53 | 19°48 | 17°47 | 10°24 | 2°55 | 20°24 | 26°D15 | 25° 5 | 12°13 | 12°41 | W22 |
| T 23 | 22 7 31 | 0 m) 19'28 | 11 II 8 | 14°33 | 15°35 | 13°22 | 19°58 | 17°54 | 10°24 | 2°53 | 20°26 | 26°16 | 25° 2 | 12°20 | 12°40 | T 23 |
| F 24 | 22 11 28 | 1°17'27 | 22°57 | 16°14 | 16°49 | 13°52 | 20° 9 | 18° 1 | 10°23 | 2°52 | 20°27 | 26°R16 | 24°58 | 12°27 | 12°40 | F 24 |
| S 25 | 22 15 24 | 2°15'28 | 4952 | 17°54 | 18° 3 | 14°22 | 20°19 | 18° 9 | 10°23 | 2°50 | 20°28 | 26°16 | 24°55 | 12°33 | 12°39 | S 25 |
| S 26 | 22 19 21 | 3°13'30 | 16°56 | 19°33 | 19°18 | 14°53 | 20°30 | 18°16 | 10°23 | 2°48 | 20°30 | 26°14 | 24°52 | 12°40 | 12°39 | S 26 |
| M27 | 22 23 17 | 4°11'35 | 29°15 | 21°11 | 20°32 | 15°24 | 20°41 | 18°23 | 10°22 | 2°47 | 20°31 | 26° 9 | 24°49 | 12°47 | 12°38 | M27 |
| T 28 | 22 27 14 | 5° 9'42 | 11 Q 50 | 22°47 | 21°46 | 15°55 | 20°52 | 18°31 | 10°21 | 2°45 | 20°32 | 26° 2 | 24°46 | 12°53 | 12°38 | T 28 |
| W29 | 22 31 10 | 6° 7'50 | 24°44 | 24°22 | 23° 0 | 16°27 | 21° 2 | 18°38 | 10°21 | 2°44 | 20°33 | 25°53 | 24°43 | 13° 0 | 12°37 | W29 |
| T 30 | 22 35 7 | 7° 6'00 | 7 m 56 | 25°56 | 24°14 | 16°58 | 21°13 | 18°45 | 10°20 | 2°42 | 20°34 | 25°42 | 24°39 | 13° 7 | 12°36 | T 30 |
| F 31 | 22 39 4 | 8 Mp 4'12 | 21 Mp 25 | 27 m 28 | 25 m 28 | 17 ₹ 31 | 21 ≏ 24 | 18 M 53 | 10 8 19 | 2) 40 | 20936 | 25 II 30 | 24耳36 | 13 I I13 | 12 8 35 | F 31 |

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| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | В | n | v | Ç | ģ | Day |
|--------------|----------------------|----------------------|------------------------|----------------|----------------|------------------------|----------------|-----------------|----------------|---------------|----------------|-----------------|-----------------|----------------|----------------|--------------|
| S 1 | 22 43 0 | 9 m , 2'25 | 5 ₾ 9 | 29 M 0 | 26 M 42 | 18 % 3 | 21 ≏ 35 | 19 m) 0 | 10°R18 | 2°R39 | 20937 | 25°R19 | 24 II 33 | 13 Ⅱ 20 | 12°R34 | S 1 |
| S 2 | 22 46 57 | 10° 0'40 | 19° 3 | 0 ჲ 30 | 27°56 | 18°36 | 21°47 | 19°8 | 10818 | 2) 37 | 20°38 | 25Ⅲ 9 | 24°30 | 13°27 | 12833 | S 2 |
| M 3 | 22 50 53 | 10°58'56 | 3 m 4 | 1°59 | 29°10 | 19° 9 | 21°58 | 19°15 | 10°17 | 2°35 | 20°39 | 25° 2 | 24°27 | 13°33 | 12°32 | M 3 |
| T 4 | 22 54 50 | 11°57'15 | 17° 9 | 3°27 | 0 <u>₽</u> 24 | 19°43 | 22° 9 | 19°22 | 10°16 | 2°34 | 20°40 | 24°58 | 24°23 | 13°40 | 12°31 | T 4 W 5 |
| W 5 T 6 | 22 58 46 23 2 43 | 12°55'34 13°53'56 | 1 √ 16 15°23 | 4°53 6°18 | 1°38 2°52 | 20°16 20°50 | 22°21 22°32 | 19°30 19°37 | 10°15 10°14 | 2°32 2°31 | 20°41 20°42 | 24°56 24°D56 | 24°20 24°17 | 13°46 13°53 | 12°30 12°29 | W 5 |
| F 7 | 23 6 39 | 13°53'30 14°52'19 | 29°30 | 7°42 | 4° 6 | 20°30 21°24 | 22°44 | 19°45 | 10°13 | 2°29 | 20°43 | 24°R56 | 24°14 | 14° 0 | 12°28 | F 7 |
| S 8 | 23 10 36 | 15°50'43 | 13 පි 34 | 9° 5 | 5°20 | 21°59 | 22°55 | 19°52 | 10°12 | 2°27 | 20°44 | 24°55 | 24°11 | 14° 6 | 12°27 | S 8 |
| S 9 | 23 14 33 | 16°49'09 | 27°36 | 10°26 | 6°34 | 22°34 | 23° 7 | 20° 0 | 10°10 | 2°26 | 20°45 | 24°52 | 24° 8 | 14°13 | 12°25 | S 9 |
| M10 | 23 18 29 | 17°47'37 | 11 ≈ 33 | 11°46 | 7°48 | 23° 9 | 23°18 | 20° 7 | 10° 9 | 2°24 | 20°46 | 24°46 | 24° 4 | 14°20 | 12°24 | M10 |
| T 11 | 23 22 26 | 18°46'07 | 25°22 | 13° 4 | 9° 2 | 23°44 | 23°30 | 20°15 | 10° 8 | 2°23 | 20°47 | 24°38 | 24° 1 | 14°26 | 12°22 | T 11 |
| W12 | 23 26 22 | 19°44'38 | 9 米 1 | 14°21 | 10°16 | 24°20 | 23°42 | 20°22 | 10° 7 | 2°21 | 20°48 | 24°26 | 23°58 | 14°33 | 12°21 | W12 |
| T 13 F 14 | 23 30 19 23 34 15 | 20°43'11 21°41'46 | 22°26 5 Y 34 | 15°36 16°50 | 11°30 12°44 | 24°55 25°31 | 23°54 24° 6 | 20°30 20°37 | 10° 5 10° 4 | 2°19 2°18 | 20°49 20°50 | 24°14 24° 1 | 23°55 23°52 | 14°40 14°46 | 12°19 12°18 | T 13 F 14 |
| S 15 | 23 34 13 | 22°40'23 | 18°25 | 18° 2 | 13°58 | 26° 8 | 24°18 | 20°45 | 10° 3 | 2°16 | 20°51 | 23°49 | 23°49 | 14°53 | 12°16 | S 15 |
| S 16 | 23 42 8 | 23°39'02 | 0 ප 58 | 19°12 | 15°12 | 26°44 | 24°30 | 20°52 | 10° 1 | 2°15 | 20°52 | 23°39 | 23°45 | 15° 0 | 12°14 | S 16 |
| M17 | 23 46 5 | 24°37'43 | 13°15 | 20°21 | 16°26 | 27°21 | 24°42 | 21° 0 | 10° 0 | 2°13 | 20°53 | 23°32 | 23°42 | 15° 6 | 12°13 | M17 |
| T 18 | 23 50 1 | 25°36'26 | 25°18 | 21°27 | 17°40 | 27°57 | 24°54 | 21° 7 | 9°58 | 2°12 | 20°53 | 23°27 | 23°39 | 15°13 | 12°11 | T 18 |
| W19 | 23 53 58 | 26°35'12 | 7 Ⅱ 11 | 22°31 | 18°54 | 28°35 | 25° 6 | 21°15 | 9°56 | 2°10 | 20°54 | 23°25 | 23°36 | 15°20 | 12° 9 | W19 |
| T 20 F 21 | 23 57 55 0 1 51 | 27°34'00 28°32'50 | 18°59 0 © 48 | 23°33 24°33 | 20° 8 21°22 | 29°12 29°49 | 25°19 25°31 | 21°22 21°30 | 9°55 9°53 | 2° 9 2° 8 | 20°55 20°56 | 23°24 23°24 | 23°33 23°29 | 15°26 15°33 | 12° 7 12° 5 | T 20 F 21 |
| S 22 | 0 5 48 | 28 32 30 29°31'43 | 12°43 | 24 33 25°30 | 21°22 22°36 | 29 49 0 궁 27 | 25°43 | 21°37 | 9°52 | 2° 6 | 20°57 | 23°24 | 23°26 | 15°39 | 12° 3 | S 22 |
| S 23 | 0 9 44 | 0₽30'38 | 24°49 | 26°24 | 23°50 | 1° 5 | 25°56 | 21°45 | 9°50 | 2° 5 | 20°57 | 23°22 | 23°23 | 15°46 | 12° 1 | S 23 |
| M24 | 0 13 41 | 1°29'35 | $7\Omega11$ | 27°15 | 25° 4 | 1°43 | 26° 8 | 21°52 | 9°48 | 2° 3 | 20°58 | 23°17 | 23°20 | 15°53 | 11°59 | M24 |
| T 25 | 0 17 37 | 2°28'34 | 19°53 | 28° 2 | 26°18 | 2°21 | 26°20 | 21°59 | 9°46 | 2° 2 | 20°59 | 23°10 | 23°17 | 15°59 | 11°57 | T 25 |
| W26 | 0 21 34 | 3°27'36 | 2 m 59 | 28°46 | 27°31 | 3° 0 | 26°33 | 22° 7 | 9°44 | 2° 1 | 20°59 | 23° 1 | 23°14 | 16° 6 | 11°54 | W26 |
| T 27 | 0 25 30 | 4°26'40 | 16°27 | 29°26 | 28°45 | 3°38 | 26°45 | 22°14 | 9°43 | 1°59 | 21° 0 | 22°50 | 23°10 | 16°13 | 11°52 | T 27 |
| F 28 | 0 29 27 | 5°25'45 | 0 ₽ 17 | OM 2 | 29°59 | 4°17 | 26°58 | 22°22 | 9°41 | 1°58 | 21° 0 | 22°38 | 23° 7 | 16°19 | 11°50 | F 28 |
| S 29 | 0 33 24 | 6°24'53 | 14°25 | 0°33 | 1 M _13 | 4°56 | 27°11 | 22°29 | 9°39 | 1°57 | 21° 1 | 22°26 | 23° 4 | 16°26 | 11°47 | S 29 |
| S 30 | 0 37 20 | 7 ≏ 24'03 | 28 ≏ 46 | 0 M .58 | 2 M 27 | 5 중 35 | 27 ≏ 23 | 22 M 36 | 9 8 37 | 1 ∺ 55 | 2195 2 | 22 I I16 | 23 I 1 | 16 Ⅱ 33 | 11 8 45 | S 30 |

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| Day | Sid.t | 0 | D | ğ | Q- | ₹ S | 4 | ħ |)∤(| ¥ | В | ß | ಬ | Ç | ę, | Day |
|------|---------|-------------------|----------------|----------------|----------------|-----------------|----------------|----------|---------------|-----------------|--------|----------------|-----------------|-------|--------|------|
| M 1 | 0 41 17 | 8 ≏ 23'15 | 13 M 13 | 1 M .19 | 3 M .41 | 6 ਰ 14 | 27 ≗ 36 | 22 Mp 44 | 9°R35 | 1°R54 | 2199 2 | 22°R 9 | 22 II 58 | 16耳39 | 11°R43 | M 1 |
| T 2 | 0 45 13 | 9°22'29 | 27°40 | 1°33 | 4°55 | 6°54 | 27°49 | 22°51 | 9 8 33 | 1) (53 | 21° 3 | 22 II 4 | 22°54 | 16°46 | 11840 | T 2 |
| W 3 | 0 49 10 | 10°21'45 | 12 × 4 | 1°41 | 6° 9 | 7°34 | 28° 1 | 22°58 | 9°31 | 1°52 | 21° 3 | 22° 2 | 22°51 | 16°53 | 11°38 | W 3 |
| T 4 | 0 53 6 | 11°21'03 | 26°19 | 1°R42 | 7°22 | 8°13 | 28°14 | 23° 5 | 9°29 | 1°50 | 21° 4 | 22°D 2 | 22°48 | 16°59 | 11°35 | T 4 |
| F 5 | 0 57 3 | 12°20'22 | 10 궁 26 | 1°35 | 8°36 | 8°53 | 28°27 | 23°13 | 9°26 | 1°49 | 21° 4 | 22°R 2 | 22°45 | 17° 6 | 11°32 | F 5 |
| S 6 | 1 0 59 | 13°19'43 | 24°22 | 1°20 | 9°50 | 9°33 | 28°40 | 23°20 | 9°24 | 1°48 | 21° 4 | 22° 2 | 22°42 | 17°13 | 11°30 | S 6 |
| S 7 | 1 4 56 | 14°19'06 | 8≈ 8 | 0°58 | 11° 4 | 10°14 | 28°53 | 23°27 | 9°22 | 1°47 | 21° 5 | 21°59 | 22°39 | 17°19 | 11°27 | S 7 |
| M 8 | 1 8 53 | 15°18'31 | 21°44 | 0°27 | 12°18 | 10°54 | 29° 6 | 23°34 | 9°20 | 1°46 | 21° 5 | 21°54 | 22°35 | 17°26 | 11°25 | M 8 |
| T 9 | 1 12 49 | 16°17'57 | 5 ₩ 10 | 29 ≏ 48 | 13°31 | 11°34 | 29°19 | 23°41 | 9°18 | 1°45 | 21° 5 | 21°47 | 22°32 | 17°32 | 11°22 | T 9 |
| W10 | 1 16 46 | 17°17'25 | 18°24 | 29° 0 | 14°45 | 12°15 | 29°32 | 23°48 | 9°15 | 1°44 | 21° 6 | 21°37 | 22°29 | 17°39 | 11°19 | W10 |
| T 11 | 1 20 42 | 18°16'55 | 1 Υ 26 | 28° 5 | 15°59 | 12°56 | 29°45 | 23°55 | 9°13 | 1°43 | 21° 6 | 21°26 | 22°26 | 17°46 | 11°16 | T 11 |
| F 12 | 1 24 39 | 19°16'27 | 14°15 | 27° 3 | 17°13 | 13°37 | 29°57 | 24° 2 | 9°11 | 1°42 | 21° 6 | 21°15 | 22°23 | 17°52 | 11°13 | F 12 |
| S 13 | 1 28 35 | 20°16'01 | 26°51 | 25°55 | 18°26 | 14°18 | 0 M _10 | 24° 9 | 9° 9 | 1°41 | 21° 6 | 21° 4 | 22°20 | 17°59 | 11°11 | S 13 |
| S 14 | 1 32 32 | 21°15'37 | 9 8 13 | 24°43 | 19°40 | 14°59 | 0°23 | 24°16 | 9° 6 | 1°40 | 21° 7 | 20°55 | 22°16 | 18° 6 | 11°8 | S 14 |
| M15 | 1 36 28 | 22°15'15 | 21°22 | 23°29 | 20°54 | 15°40 | 0°37 | 24°23 | 9° 4 | 1°39 | 21° 7 | 20°49 | 22°13 | 18°12 | 11° 5 | M15 |
| T 16 | 1 40 25 | 23°14'56 | 3 Ⅱ 20 | 22°14 | 22° 8 | 16°22 | 0°50 | 24°30 | 9° 2 | 1°38 | 21° 7 | 20°45 | 22°10 | 18°19 | 11° 2 | T 16 |
| W17 | 1 44 22 | 24°14'38 | 15°11 | 21° 2 | 23°21 | 17° 3 | 1° 3 | 24°37 | 8°59 | 1°37 | 21° 7 | 20°D43 | 22° 7 | 18°26 | 10°59 | W17 |
| T 18 | 1 48 18 | 25°14'23 | 26°58 | 19°53 | 24°35 | 17°45 | 1°16 | 24°44 | 8°57 | 1°37 | 21° 7 | 20°43 | 22° 4 | 18°32 | 10°56 | T 18 |
| F 19 | 1 52 15 | 26°14'10 | 8 9 346 | 18°51 | 25°48 | 18°26 | 1°29 | 24°51 | 8°54 | 1°36 | 21° 7 | 20°44 | 22° 0 | 18°39 | 10°53 | F 19 |
| S 20 | 1 56 11 | 27°14'00 | 20°39 | 17°57 | 27° 2 | 19° 8 | 1°42 | 24°58 | 8°52 | 1°35 | 21° 7 | 20°45 | 21°57 | 18°46 | 10°50 | S 20 |
| S 21 | 2 0 8 | 28°13'51 | 2 Ω 43 | 17°12 | 28°16 | 19°50 | 1°55 | 25° 4 | 8°50 | 1°34 | 21° 7 | 20°R45 | 21°54 | 18°52 | 10°47 | S 21 |
| M22 | 2 4 4 | 29°13'45 | 15° 4 | 16°38 | 29°29 | 20°32 | 2° 8 | 25°11 | 8°47 | 1°34 | 21°R 7 | 20°43 | 21°51 | 18°59 | 10°44 | M22 |
| T 23 | 2 8 1 | 0 M .13'41 | 27°46 | 16°15 | 0 ∡ 143 | 21°14 | 2°21 | 25°17 | 8°45 | 1°33 | 21° 7 | 20°40 | 21°48 | 19° 5 | 10°41 | T 23 |
| W24 | 2 11 57 | 1°13'39 | 10 m 53 | 16° 3 | 1°56 | 21°56 | 2°34 | 25°24 | 8°42 | 1°32 | 21° 7 | 20°34 | 21°45 | 19°12 | 10°38 | W24 |
| T 25 | 2 15 54 | 2°13'39 | 24°26 | 16°D 3 | 3°10 | 22°39 | 2°48 | 25°31 | 8°40 | 1°32 | 21° 7 | 20°27 | 21°41 | 19°19 | 10°35 | T 25 |
| F 26 | 2 19 51 | 3°13'42 | 8 ≏ 26 | 16°14 | 4°24 | 23°21 | 3° 1 | 25°37 | 8°37 | 1°31 | 21° 7 | 20°19 | 21°38 | 19°25 | 10°32 | F 26 |
| S 27 | 2 23 47 | 4°13'46 | 22°50 | 16°36 | 5°37 | 24° 3 | 3°14 | 25°44 | 8°35 | 1°30 | 21° 7 | 20°12 | 21°35 | 19°32 | 10°29 | S 27 |
| S 28 | 2 27 44 | 5°13'53 | 7 M L31 | 17° 7 | 6°51 | 24°46 | 3°27 | 25°50 | 8°32 | 1°30 | 21° 7 | 20° 5 | 21°32 | 19°39 | 10°26 | S 28 |
| M29 | 2 31 40 | 6°14'01 | 22°22 | 17°47 | 8° 4 | 25°29 | 3°40 | 25°56 | 8°30 | 1°29 | 21° 7 | 20° 0 | 21°29 | 19°45 | 10°23 | M29 |
| T 30 | 2 35 37 | 7°14'11 | 7 , ₹15 | 18°35 | 9°18 | 2 <u>6</u> °12 | 3°53 | 26° 2 | 8°27 | 1°29 | 21° 7 | 19°58 | 21°26 | 19°52 | 10°19 | T 30 |
| W31 | 2 39 33 | 8MJ4'23 | 22 ×7 2 | 19 ≏ 30 | 10 ₹ 31 | 26 පි 54 | 4M 6 | 26Mp 9 | 8 8 25 | 1 ∺ 29 | 2195 6 | 19°D57 | 21 II 22 | 19耳59 | 10816 | W31 |

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NOVEMBER 1685 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)Å(| ¥ | В | ß | v | Ç | Q K | Day |
|--------------|---------|--------------------|------------------------|------------------------|-----------------|----------------|----------------|----------------|---------------|----------------|----------------|-------------------------|-------------------------|-------------------------|---------------|--------------|
| T 1 | 2 43 30 | 9 M 14'36 | 6 ට 37 | 20 ≏ 31 | 11 × 745 | 27 궁 37 | 4M20 | 26Mp15 | 8°R22 | 1°R28 | 21°R 6 | 19 Ⅱ 58 | 21耳19 | 20耳 5 | 10°R13 | T 1 |
| F 2 | 2 47 26 | 10°14'51 | 20°56 | 21°38 | 12°58 | 28°20 | 4°33 | 26°21 | 8 8 20 | 1) 28 | 2195 6 | 19°59 | 21°16 | 20°12 | 10810 | F 2 |
| S 3 | 2 51 23 | 11°15'08 | 4≈58 | 22°50 | 14°11 | 29° 3 | 4°46 | 26°27 | 8°17 | 1°27 | 21° 5 | 20°R 0 | 21°13 | 20°19 | 10° 7 | S 3 |
| S 4 | 2 55 20 | 12°15'25 | 18°41 | 24° 5 | 15°25 | 29°47 | 4°59 | 26°33 | 8°15 | 1°27 | 21° 5 | 20° 0 | 21°10 | 20°25 | 10° 4 | S 4 |
| M 5 | 2 59 16 | 13°15'44 | 2 ∺ 7 | 25°24 | 16°38 | 0≈30 | 5°12 | 26°39 | 8°13 | 1°27 | 21° 5 | 19°59 | 21° 6 | 20°32 | 10° 1 | M 5 |
| T 6 | 3 3 13 | 14°16'05 | 15°17 | 26°46 | 17°51 | 1°13 | 5°25 | 26°45 | 8°10 | 1°27 | 21° 4 | 19°55 | 21° 3 | 20°38 | 9°58 | T 6 |
| W 7 | 3 7 9 | 15°16'27 | 28°12 | 28°11 | 19° 5 | 1°56 | 5°38 | 26°51 | 8° 8 | 1°27 | 21° 4 | 19°50 | 21° 0 | 20°45 | 9°54 | W 7 |
| T 8 | 3 11 6 | 16°16'50 | 10 Υ 54 | 29°37 | 20°18 | 2°40 | 5°51 | 26°56 | 8° 5 | 1°26 | 21° 4 | 19°45 | 20°57 | 20°52 | 9°51 | T 8 |
| F 9 | 3 15 2 | 17°17'15 | 23°23 | 1 m 5 | 21°31 | 3°23 | 6° 4 | 27° 2 | 8° 3 | 1°26 | 21° 3 | 19°39 | 20°54 | 20°58 | 9°48 | F 9 |
| S 10 | 3 18 59 | 18°17'42 | 5 8 42 | 2°35 | 22°45 | 4° 7 | 6°17 | 27° 8 | 8° 0 | 1°26 | 21° 3 | 19°33 | 20°51 | 21° 5 | 9°45 | S 10 |
| S 11 | 3 22 55 | 19°18'10 | 17°50 | 4° 5 | 23°58 | 4°50 | 6°30 | 27°13 | 7°58 | 1°26 | 21° 2 | 19°29 | 20°47 | 21°12 | 9°42 | S 11 |
| M12 | 3 26 52 | 20°18'40 | 29°50 | 5°37 | 25°11 | 5°34 | 6°43 | 27°19 | 7°55 | 1°D26 | 21° 2 | 19°25 | 20°44 | 21°18 | 9°39 | M12 |
| T 13 | 3 30 49 | 21°19'11 | 11 Ⅱ 43 | 7° 9 | 26°24 | 6°18 | 6°56 | 27°24 | 7°53 | 1°26 | 21° 1 | 19°24 | 20°41 | 21°25 | 9°36 | T 13 |
| W14 | 3 34 45 | 22°19'44 | 23°32 | 8°42 | 27°37 | 7° 1 | 7° 9 | 27°30 | 7°51 | 1°26 | 21° 1 | 19°D23 | 20°38 | 21°32 | 9°33 | W14 |
| T 15 | 3 38 42 | 23°20'19 | 59518 | 10°16 | 28°50 | 7°45 | 7°22 | 27°35 | 7°48 | 1°26 | 21° 0 | 19°24 | 20°35 | 21°38 | 9°30 | T 15 |
| F 16 | 3 42 38 | 24°20'55 | 17° 6 | 11°49 | 0중 3 | 8°29 | 7°35 | 27°40 | 7°46 | 1°26 | 20°59 | 19°26 | 20°31 | 21°45 | 9°27 | F 16 |
| S 17 | 3 46 35 | 25°21'33 | 28°59 | 13°23 | 1°16 | 9°13 | 7°48 | 27°45 | 7°44 | 1°26 | 20°59 | 19°28 | 20°28 | 21°52 | 9°24 | S 17 |
| S 18 | 3 50 31 | 26°22'13 | 11 0 3 | 14°58 | 2°29 | 9°57 | 8° 1 | 27°50 | 7°41 | 1°27 | 20°58 | 19°29 | 20°25 | 21°58 | 9°21 | S 18 |
| M19 | 3 54 28 | 27°22'54 | 23°21 | 16°32 | 3°42 | 10°41 | 8°13 | 27°55 | 7°39 | 1°27 | 20°57 | 19°R30 | 20°22 | 22° 5 | 9°18 | M19 |
| T 20 | 3 58 24 | 28°23'37 | 5 m 58 | 18° 6 | 4°55 | 11°25 | 8°26 | 28° 0 | 7°37 | 1°27 | 20°57 | 19°30 | 20°19 | 22°12 | 9°15 | T 20 |
| W21 | 4 2 21 | 29°24'21 | 18°59 | 19°41 | 6° 8 | 12° 9 | 8°39 | 28° 5 | 7°34 | 1°27 | 20°56 | 19°29 | 20°16 | 22°18 | 9°12 | W21 |
| T 22 | 4 6 18 | 0 ₹ 25'07 | 2 <u>Ω</u> 26 | 21°15 | 7°21 | 12°53 | 8°52 | 28°10 | 7°32 | 1°28 | 20°55 | 19°27 | 20°12 | 22°25 | 9° 9 9° 6 | T 22 |
| F 23 S 24 | 4 10 14 | 1°25'55 2°26'44 | 16°22 ዐ ጤ 44 | 22°50 24°24 | 8°34 9°46 | 13°37 14°21 | 9° 4 9°17 | 28°14 28°19 | 7°30 7°28 | 1°28 1°28 | 20°55 20°54 | 19°25 19°22 | 20° 9 20° 6 | 22°31 22°38 | , , | F 23 S 24 |
| | 4 14 11 | - | | | | | | | | | | - | | | , , | |
| S 25 | 4 18 7 | 3°27'35 | 15°30 | 25°59 | 10°59 | 15° 5 | 9°29 | 28°24 | 7°26 | 1°29 | 20°53 | 19°20 | 20° 3 | 22°45 | 9° 1 | S 25 |
| M26 | 4 22 4 | 4°28'27 | 0 , 732 | 27°33 | 12°12 | 15°49 | 9°42 | 28°28 | 7°23 | 1°29 | 20°52 | 19°19 | 20° 0 | 22°51 | 8°58 | M26 |
| T 27 | 4 26 0 | 5°29'20 | 15°42 | 29° 7 | 13°25 | 16°34 | 9°55 | 28°32 | 7°21 | 1°30 | 20°51 | 19°D18 | 19°57 | 22°58 | 8°55 | T 27 |
| W28 | 4 29 57 | 6°30'14 | 0중50 | 0 ₹ 42 | 14°37 | 17°18 | 10° 7 | 28°37 | 7°19 | 1°30 | 20°50 | 19°18 | 19°53 | 23° 5 | 8°53 | W28 |
| T 29 | 4 33 53 | 7°31'10 | 15°48 | 2°16 3 × 750 | 15°50 | 18° 2 | 10°19 | 28°41 | 7°17 | 1°31 | 20°50 | 19°19 19 Ⅲ 20 | 19°50 19 ∏ 47 | 23°11 23 Ⅱ 18 | 8°50 | T 29 F 30 |
| F 30 | 4 37 50 | 8 ∡ ³32'06 | 0≈27 | 3×130 | 17る 2 | 18 ≈ 47 | 10 M 32 | 28 Mp 45 | 7 8 15 | 1 ★ 32 | 209549 | 19Д20 | 19Д4/ | 23 1 18 | 8 8 47 | F 30 |

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|------|---------|------------------|----------------|----------------|----------------|------------------|-----------------|----------------------|---------------|---------------|--------|----------------|----------------|-----------------|---------------|------|
| S 1 | 4 41 47 | 9 % 33'03 | 14≈45 | 5 ₹ 24 | 18 ਰ 15 | 19 ≈ 31 | 10 M .44 | 28 M 49 | 7°R13 | 1 ∺ 32 | 20°R48 | 19 Ⅱ 21 | 19 ∏ 44 | 23 II 25 | 8°R45 | S 1 |
| S 2 | 4 45 43 | 10°34'00 | 28°37 | 6°58 | 19°27 | 20°15 | 10°57 | 28°53 | 7 8 11 | 1°33 | 209547 | 19°21 | 19°41 | 23°31 | 8 8 42 | S 2 |
| M 3 | 4 49 40 | 11°34'58 | 12 米 5 | 8°32 | 20°40 | 21° 0 | 11° 9 | 28°57 | 7° 9 | 1°34 | 20°46 | 19°R22 | 19°37 | 23°38 | 8°40 | M 3 |
| T 4 | 4 53 36 | 12°35'57 | 25°11 | 10° 7 | 21°52 | 21°44 | 11°21 | 29° 0 | 7° 7 | 1°34 | 20°45 | 19°21 | 19°34 | 23°45 | 8°37 | T 4 |
| W 5 | 4 57 33 | 13°36'56 | 7 Ƴ 57 | 11°41 | 23° 4 | 22°29 | 11°33 | 29° 4 | 7° 5 | 1°35 | 20°44 | 19°21 | 19°31 | 23°51 | 8°35 | W 5 |
| T 6 | 5 1 29 | 14°37'56 | 20°26 | 13°15 | 24°16 | 23°13 | 11°45 | 29° 7 | 7° 4 | 1°36 | 20°43 | 19°20 | 19°28 | 23°58 | 8°33 | T 6 |
| F 7 | 5 5 26 | 15°38'57 | 2841 | 14°49 | 25°28 | 23°58 | 11°57 | 29°11 | 7° 2 | 1°37 | 20°42 | 19°20 | 19°25 | 24° 4 | 8°30 | F 7 |
| S 8 | 5 9 22 | 16°39'58 | 14°46 | 16°24 | 26°40 | 24°42 | 12° 9 | 29°14 | 7° 0 | 1°38 | 20°41 | 19°19 | 19°22 | 24°11 | 8°28 | S 8 |
| S 9 | 5 13 19 | 17°41'00 | 26°43 | 17°58 | 27°52 | 25°27 | 12°21 | 29°18 | 6°58 | 1°38 | 20°40 | 19°19 | 19°18 | 24°18 | 8°26 | S 9 |
| M10 | 5 17 16 | 18°42'03 | 8耳35 | 19°33 | 29° 4 | 26°11 | 12°33 | 29°21 | 6°57 | 1°39 | 20°39 | 19°19 | 19°15 | 24°24 | 8°23 | M10 |
| T 11 | 5 21 12 | 19°43'06 | 20°24 | 21° 7 | 0≈16 | 26°56 | 12°45 | 29°24 | 6°55 | 1°40 | 20°38 | 19°19 | 19°12 | 24°31 | 8°21 | T 11 |
| W12 | 5 25 9 | 20°44'10 | 29911 | 22°42 | 1°28 | 27°40 | 12°56 | 29°27 | 6°53 | 1°41 | 20°37 | 19°19 | 19° 9 | 24°38 | 8°19 | W12 |
| T 13 | 5 29 5 | 21°45'15 | 14° 0 | 24°17 | 2°40 | 28°25 | 13° 8 | 29°30 | 6°52 | 1°42 | 20°35 | 19°19 | 19° 6 | 24°44 | 8°17 | T 13 |
| F 14 | 5 33 2 | 22°46'20 | 25°53 | 25°52 | 3°51 | 29° 9 | 13°20 | 29°32 | 6°50 | 1°43 | 20°34 | 19°18 | 19° 3 | 24°51 | 8°15 | F 14 |
| S 15 | 5 36 58 | 23°47'26 | 7 Ω 51 | 27°27 | 5° 3 | 29°54 | 13°31 | 29°35 | 6°49 | 1°45 | 20°33 | 19°18 | 18°59 | 24°58 | 8°13 | S 15 |
| S 16 | 5 40 55 | 24°48'32 | 19°58 | 29° 3 | 6°14 | 0 ∺ 39 | 13°43 | 29°38 | 6°47 | 1°46 | 20°32 | 19°17 | 18°56 | 25° 4 | 8°11 | S 16 |
| M17 | 5 44 51 | 25°49'40 | 2 m 18 | 0 궁 39 | 7°25 | 1°23 | 13°54 | 29°40 | 6°46 | 1°47 | 20°31 | 19°17 | 18°53 | 25°11 | 8° 9 | M17 |
| T 18 | 5 48 48 | 26°50'48 | 14°53 | 2°14 | 8°37 | 2° 8 | 14° 5 | 29°43 | 6°45 | 1°48 | 20°30 | 19°16 | 18°50 | 25°18 | 8° 8 | T 18 |
| W19 | 5 52 45 | 27°51'56 | 27°48 | 3°50 | 9°48 | 2°52 | 14°17 | 29°45 | 6°43 | 1°49 | 20°29 | 19°D16 | 18°47 | 25°24 | 8° 6 | W19 |
| T 20 | 5 56 41 | 28°53'05 | 11₽ 6 | 5°27 | 10°59 | 3°37 | 14°28 | 29°47 | 6°42 | 1°50 | 20°27 | 19°16 | 18°43 | 25°31 | 8° 4 | T 20 |
| F 21 | 6 0 38 | 29°54'15 | 24°49 | 7° 3 | 12°10 | 4°21 | 14°39 | 29°49 | 6°41 | 1°52 | 20°26 | 19°17 | 18°40 | 25°38 | 8° 2 8° 1 | F 21 |
| S 22 | 6 4 34 | 0 る 55'26 | 8 M .57 | 8°40 | 13°21 | 5° 6 | 14°50 | 29°51 | 6°40 | 1°53 | 20°25 | 19°18 | 18°37 | 25°44 | | S 22 |
| S 23 | 6 8 31 | 1°56'37 | 23°31 | 10°17 | 14°31 | 5°51 | 15° 1 | 29°53 | 6°39 | 1°54 | 20°24 | 19°19 | 18°34 | 25°51 | 7°59 | S 23 |
| M24 | 6 12 27 | 2°57'48 | 8 ₹ 25 | 11°54 | 15°42 | 6°35 | 15°11 | 29°55 | 6°37 | 1°56 | 20°23 | 19°19 | 18°31 | 25°57 | 7°58 | M24 |
| T 25 | 6 16 24 | 3°59'00 | 23°34 | 13°31 | 16°53 | 7°20 | 15°22 | 29°56 | 6°36 | 1°57 | 20°21 | 19°R20 | 18°28 | 26° 4 | 7°56 | T 25 |
| W26 | 6 20 21 | 5° 0'12 | 8 국 48 | 15° 8 | 18° 3 | 8° 4 | 15°33 | 29°58 | 6°35 | 1°59 | 20°20 | 19°19 | 18°24 | 26°11 | 7°55 | W26 |
| T 27 | 6 24 17 | 6° 1'24 | 23°57 | 16°45 | 19°13 | 8°49 | 15°43 | 29°59 | 6°35 | 2° 0 | 20°19 | 19°17 | 18°21 | 26°17 | 7°54 | T 27 |
| F 28 | 6 28 14 | 7° 2'37 | 8 ≈ 52 | 18°22 | 20°24 | 9°33 | 15°54 | 0 <u>요</u> 1 0° 2 | 6°34 | 2° 1 | 20°18 | 19°15 | 18°18 | 26°24 | 7°53 | F 28 |
| S 29 | 6 32 10 | 8° 3'48 | 23°26 | 20° 0 | 21°34 | 10°18 | 16° 4 | | 6°33 | 2° 3 | 20°16 | 19°13 | 18°15 | 26°31 | 7°51 | S 29 |
| S 30 | 6 36 7 | 9° 5'00 | 7) €33 | 2 <u>1</u> °37 | 22°44 | 11° 3 | 16°15 | 0° 3 | 6°32 | 2° 4 | 20°15 | 19°10 | 18°12 | 26°37 | 7°50 | S 30 |
| M31 | 6 40 3 | 10궁 6'11 | 21 米 12 | 23 る 13 | 23≈54 | 11) (47 | 16ML25 | 0요 4 | 6 8 31 | 2 ∺ 6 | 20914 | 19耳 8 | 18耳 9 | 26 Ⅱ 44 | 7 8 49 | M31 |

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| T 1 W 2 T 3 | 6 44 0 6 47 56 6 51 53 | 11 る 7'22 12° 8'32 13° 9'42 | 4 Υ 23 17° 9 29°35 | 24 る 50 26°25 28° 1 | 25≈ 3 26°13 27°22 | 12 ₩32 13°16 14° 1 | 16MJ35 16°45 16°55 | 0 <u>ი</u> 5 0° 6 0° 6 | 6°R31 6 8 30 6°29 | 2 ∺ 8 2° 9 2°11 | 20°R12 20©11 20°10 | 19°R 7 19°D 7 19 II 8 | 18 II 5 18° 2 17°59 | 26 I 51 26°57 27° 4 | 7°R48 7 8 47 7°46 | T 1 W 2 T 3 |
| F 4 S 5 | 6 55 50 6 59 46 | 14°10'51 15°12'00 | 11 8 44 23°42 | 29°35 1 ≈ 8 | 28°31 29°40 | 14°45 15°30 | 17° 5 17°14 | 0° 7 0° 7 | 6°29 6°28 | 2°12 2°14 | 20° 9 20° 7 | 19° 9 19°11 | 17°56 17°53 | 27°11 27°17 | 7°46 7°45 | F 4 S 5 |
| S 6 M 7 T 8 W 9 T 10 F 11 | 7 3 43 7 7 39 7 11 36 7 15 32 7 19 29 7 23 25 | 16°13'09 17°14'17 18°15'24 19°16'31 20°17'38 21°18'44 | 5Π33 17°20 29° 7 10©57 22°51 4Ω52 | 2°39 4° 9 5°36 7° 1 8°23 9°41 | 0 X 49 1°58 3° 7 4°15 5°23 6°31 | 16°14 16°59 17°43 18°27 19°12 19°56 | 17°24 17°33 17°43 17°52 18° 1 18°10 | 0° 8 0° 8 0° 8 0° 8 0° 8 | 6°28 6°27 6°27 6°27 6°27 6°26 | 2°16 2°18 2°19 2°21 2°23 2°25 | 20° 6 20° 5 20° 3 20° 2 20° 1 19°59 | 19°13 19°R14 19°13 19°11 19°8 19°2 | 17°49 17°46 17°43 17°40 17°37 17°34 | 27°24 27°31 27°37 27°44 27°50 27°57 | 7°44 7°44 7°43 7°43 7°42 7°42 | S 6 M 7 T 8 W 9 T 10 F 11 |
| S 12 S 13 M14 T 15 W16 T 17 F 18 S 19 | 7 27 22 7 31 19 7 35 15 7 39 12 7 43 8 7 47 5 7 51 1 7 54 58 | 22°19'49 23°20'54 24°21'59 25°23'03 26°24'07 27°25'10 28°26'13 29°27'15 | 17° 1 29°20 11 m 50 24°33 7 •• 30 20°44 4 m .17 18°11 | 10°54 12° 3 13° 5 14° 1 14°50 15°30 16° 0 16°21 | 7°39 8°46 9°54 11° 1 12° 8 13°15 14°21 15°27 | 20°41 21°25 22° 9 22°53 23°38 24°22 25° 6 25°50 | 18°19 18°28 18°37 18°45 18°54 19° 2 19°10 19°18 | 0° 7 0° 6 0° 6 0° 5 0° 4 0° 3 0° 2 | 6°26 6°D26 6°26 6°26 6°27 6°27 6°27 | 2°26 2°28 2°30 2°32 2°34 2°36 2°38 2°40 | 19°58 19°57 19°56 19°54 19°53 19°52 19°50 19°49 | 18°56 18°50 18°44 18°39 18°35 18°34 18°D34 18°35 | 17°30 17°27 17°24 17°21 17°18 17°15 17°11 17° 8 | 28° 4 28°10 28°17 28°24 28°30 28°37 28°44 28°50 | 7°42 7°41 7°41 7°D41 7°41 7°41 7°41 | S 12 S 13 M14 T 15 W16 T 17 F 18 S 19 |
| S 20 M21 T 22 W23 T 24 F 25 S 26 | 7 58 54 8 2 51 8 6 48 8 10 44 8 14 41 8 18 37 8 22 34 | 0\approx 28'17 1°29'19 2°30'20 3°31'20 4°32'19 5°33'17 6°34'14 | 2 ₹25 16°59 1 ₹49 16°49 1≈51 16°45 1 ¥23 | 16°R31 16°30 16°17 15°53 15°18 14°33 13°38 | 16°33 17°39 18°45 19°50 20°55 21°59 23° 4 | 26°34 27°19 28° 3 28°47 29°31 0°15 0°59 | 19°26 19°34 19°42 19°49 19°57 20° 4 20°11 | 0° 1 29 m 59 29°58 29°57 29°55 29°54 29°52 | 6°27 6°28 6°28 6°28 6°29 6°30 | 2°42 2°44 2°46 2°48 2°50 2°52 2°54 | 19°48 19°46 19°45 19°44 19°43 19°41 19°40 | 18°36 18°R37 18°36 18°33 18°28 18°21 18°13 | 17° 5 17° 2 16°59 16°55 16°52 16°49 16°46 | 28°57 29° 4 29°10 29°17 29°24 29°30 29°37 | 7°41 7°42 7°42 7°43 7°43 7°44 7°44 | S 20 M21 T 22 W23 T 24 F 25 S 26 |
| S 27 M28 T 29 W30 T 31 | 8 26 30 8 30 27 8 34 23 8 38 20 8 42 17 | 7°35'10 8°36'05 9°36'58 10°37'50 11≈38'40 | 15°38 29°25 12 Y 44 25°36 8 8 5 | 12°37 11°29 10°17 9° 4 7≈51 | 24° 8 25°11 26°15 27°18 28¥21 | 1°43 2°27 3°11 3°55 4 Y 39 | 20°18 20°25 20°32 20°38 20M45 | 29°50 29°48 29°46 29°44 29¶41 | 6°31 6°32 6°32 6°33 6 8 34 | 2°56 2°58 3°0 3°3 3¥5 | 19°39 19°38 19°36 19°35 19©34 | 18° 5 17°58 17°52 17°49 17°D48 | 16°43 16°40 16°36 16°33 16耳30 | 29°44 29°50 29°57 0\$\sigma\$ 3 0\$\sigma\$10 | 7°45 7°46 7°46 7°47 7 8 48 | S 27 M28 T 29 W30 T 31 |

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| F 1 | 8 46 13 | 12≈39'29 | 20815 | 6°R41 | 29 米 23 | 5 Υ 23 | 20 M 51 | 29°R39 | 6 8 35 | 3) ₹ 7 | 19°R33 | 17 Ⅱ 48 | 16 Ⅱ 27 | 09917 | 7 8 49 | F 1 |
| S 2 | 8 50 10 | 13°40'16 | 2 Ⅱ 12 | 5≈34 | 0 Υ 25 | 6° 6 | 20°57 | 29 m 36 | 6°36 | 3° 9 | 19932 | 17°49 | 16°24 | 0°23 | 7°50 | S 2 |
| S 3 | 8 54 6 | 14°41'02 | 14° 1 | 4°33 | 1°26 | 6°50 | 21° 3 | 29°34 | 6°37 | 3°11 | 19°30 | 17°R50 | 16°21 | 0°30 | 7°51 | S 3 |
| M 4 | 8 58 3 | 15°41'47 | 25°47 | 3°39 | 2°28 | 7°34 | 21° 9 | 29°31 | 6°38 | 3°13 | 19°29 | 17°49 | 16°17 | 0°37 | 7°53 | M 4 |
| T 5 | 9 1 59 | 16°42'30 | 7935 | 2°51 | 3°28 | 8°18 | 21°14 | 29°28 | 6°39 | 3°16 | 19°28 | 17°47 | 16°14 | 0°43 | 7°54 | T 5 |
| W 6 | 9 5 56 | 17°43'11 | 19°29 | 2°12 | 4°28 | 9° 1 | 21°20 | 29°26 | 6°40 | 3°18 | 19°27 | 17°42 | 16°11 | 0°50 | 7°55 | W 6 |
| T 7 | 9 9 52 | 18°43'51 | 1 Ω 31 | 1°41 | 5°28 | 9°45 | 21°25 | 29°23 | 6°42 | 3°20 | 19°26 | 17°35 | 16° 8 | 0°57 | 7°56 | T 7 |
| F 8 | 9 13 49 | 19°44'29 | 13°43 | 1°18 | 6°28 | 10°29 | 21°30 | 29°20 | 6°43 | 3°22 | 19°25 | 17°25 | 16° 5 | 1° 3 | 7°58 | F 8 |
| S 9 | 9 17 46 | 20°45'06 | 26° 7 | 1° 2 | 7°27 | 11°12 | 21°35 | 29°17 | 6°44 | 3°24 | 19°24 | 17°14 | 16° 1 | 1°10 | 7°59 | S 9 |
| S 10 | 9 21 42 | 21°45'41 | 8 mp 43 | 0°55 | 8°25 | 11°56 | 21°40 | 29°13 | 6°46 | 3°27 | 19°23 | 17° 2 | 15°58 | 1°17 | 8° 1 | S 10 |
| M11 | 9 25 39 | 22°46'15 | 21°31 | 0°D54 | 9°23 | 12°39 | 21°45 | 29°10 | 6°47 | 3°29 | 19°22 | 16°50 | 15°55 | 1°23 | 8° 3 | M11 |
| T 12 | 9 29 35 | 23°46'48 | 4 ₽ 31 | 1° 1 | 10°20 | 13°23 | 21°49 | 29° 7 | 6°48 | 3°31 | 19°21 | 16°40 | 15°52 | 1°30 | 8° 4 | T 12 |
| W13 | 9 33 32 | 24°47'19 | 17°42 | 1°14 | 11°17 | 14° 6 | 21°53 | 29° 3 | 6°50 | 3°33 | 19°19 | 16°32 | 15°49 | 1°37 | 8° 6 | W13 |
| T 14 | 9 37 28 | 25°47'49 | 1 M 5 | 1°33 | 12°13 | 14°50 | 21°58 | 29° 0 | 6°52 | 3°36 | 19°18 | 16°27 | 15°46 | 1°43 | 8° 8 | T 14 |
| F 15 | 9 41 25 | 26°48'17 | 14°40 | 1°57 | 13° 9 | 15°33 | 22° 2 | 28°56 | 6°53 | 3°38 | 19°17 | 16°24 | 15°42 | 1°50 | 8°10 | F 15 |
| S 16 | 9 45 21 | 27°48'45 | 28°28 | 2°27 | 14° 4 | 16°16 | 22° 5 | 28°53 | 6°55 | 3°40 | 19°16 | 16°D24 | 15°39 | 1°56 | 8°11 | S 16 |
| S 17 | 9 49 18 | 28°49'11 | 12 × 29 | 3° 1 | 14°58 | 17° 0 | 22° 9 | 28°49 | 6°56 | 3°43 | 19°15 | 16°R24 | 15°36 | 2° 3 | 8°13 | S 17 |
| M18 | 9 53 15 | 29°49'35 | 26°44 | 3°40 | 15°52 | 17°43 | 22°13 | 28°45 | 6°58 | 3°45 | 19°15 | 16°24 | 15°33 | 2°10 | 8°15 | M18 |
| T 19 | 9 57 11 | 0) (49'59 | 11 궁 10 | 4°24 | 16°45 | 18°26 | 22°16 | 28°41 | 7° 0 | 3°47 | 19°14 | 16°21 | 15°30 | 2°16 | 8°17 | T 19 |
| W20 | 10 1 8 | 1°50'21 | 25°46 | 5°10 | 17°37 | 19° 9 | 22°19 | 28°38 | 7° 2 | 3°49 | 19°13 | 16°17 | 15°27 | 2°23 | 8°20 | W20 |
| T 21 | 10 5 4 | 2°50'41 | 10≈24 | 6° 1 | 18°29 | 19°52 | 22°22 | 28°34 | 7° 4 | 3°52 | 19°12 | 16° 9 | 15°23 | 2°30 | 8°22 | T 21 |
| F 22 | 10 9 1 | 3°51'00 | 24°59 | 6°55 | 19°20 | 20°36 | 22°25 | 28°30 | 7° 6 | 3°54 | 19°11 | 15°59 | 15°20 | 2°36 | 8°24 | F 22 |
| S 23 | 10 12 57 | 4°51'17 | 9) €24 | 7°51 | 20°10 | 21°19 | 22°27 | 28°26 | 7° 8 | 3°56 | 19°10 | 15°47 | 15°17 | 2°43 | 8°26 | S 23 |
| S 24 | 10 16 54 | 5°51'32 | 23°31 | 8°51 | 20°59 | 22° 2 | 22°30 | 28°21 | 7°10 | 3°58 | 19° 9 | 15°35 | 15°14 | 2°50 | 8°29 | S 24 |
| M25 | 10 20 50 | 6°51'45 | 7 Υ 16 | 9°53 | 21°48 | 22°45 | 22°32 | 28°17 | 7°12 | 4° 1 | 19° 8 | 15°23 | 15°11 | 2°56 | 8°31 | M25 |
| T 26 | 10 24 47 | 7°51'56 | 20°35 | 10°57 | 22°35 | 23°28 | 22°34 | 28°13 | 7°14 | 4° 3 | 19°8 | 15°14 | 15° 7 | 3° 3 | 8°33 | T 26 |
| W27 | 10 28 44 | 8°52'05 | 3 8 30 | 12° 4 | 23°22 | 24°11 | 22°36 | 28° 9 | 7°16 | 4° 5 | 19° 7 | 15° 7 | 15° 4 | 3°10 | 8°36 | W27 |
| T 28 | 10 32 40 | 9 米 52'12 | 168 2 | 13 ≈ 13 | 24 ° 8 | 24 Y 54 | 22 M 37 | 28Mp 4 | 7 8 18 | 4) € 8 | 1995 6 | 15 II 3 | 15 I 1 | 39916 | 8 8 38 | T 28 |

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|------|----------|-------------------|-----------------|---------------|----------------|----------------|-----------------|----------------|---------------|---------------|--------|-----------------|-------|---------------|---------------|--------------|
| F 1 | 10 36 37 | 10) 52'17 | 28 8 15 | 14≈24 | 24 Y 52 | 25 Y 36 | 22M39 | 28°R 0 | 7 8 20 | 4) 10 | 19°R 5 | 15°R 1 | 14Ⅲ58 | 3923 | 8 8 41 | F 1 |
| S 2 | 10 40 33 | 11°52'20 | 10 Ⅲ 14 | 15°37 | 25°36 | 26°19 | 22°40 | 27 m 56 | 7°23 | 4°12 | 1995 5 | 15 I I 1 | 14°55 | 3°30 | 8°44 | S 2 |
| S 3 | 10 44 30 | 12°52'20 | 22° 4 | 16°52 | 26°19 | 27° 2 | 22°41 | 27°51 | 7°25 | 4°14 | 19° 4 | 15° 1 | 14°52 | 3°36 | 8°46 | S 3 |
| M 4 | 10 48 26 | 13°52'19 | 3952 | 18° 8 | 27° 0 | 27°45 | 22°42 | 27°47 | 7°27 | 4°17 | 19° 3 | 15° 0 | 14°48 | 3°43 | 8°49 | M 4 |
| T 5 | 10 52 23 | 14°52'15 | 15°42 | 19°27 | 27°41 | 28°28 | 22°43 | 27°42 | 7°30 | 4°19 | 19° 2 | 14°57 | 14°45 | 3°50 | 8°52 | T 5 |
| W 6 | 10 56 19 | 15°52'09 | 27°39 | 20°46 | 28°20 | 29°10 | 22°43 | 27°38 | 7°32 | 4°21 | 19° 2 | 14°52 | 14°42 | 3°56 | 8°55 | W 6 |
| T 7 | 11 0 16 | 16°52'01 | 9 Ω 47 | 22° 8 | 28°58 | 29°53 | 22°44 | 27°33 | 7°34 | 4°23 | 19° 1 | 14°44 | 14°39 | 4° 3 | 8°58 | T 7 |
| F 8 | 11 4 13 | 17°51'51 | 22° 9 | 23°31 | 29°34 | 0 8 35 | 22°R44 | 27°28 | 7°37 | 4°26 | 19° 1 | 14°33 | 14°36 | 4°10 | 9° 0 | F 8 |
| S 9 | 11 8 9 | 18°51'39 | 4 Mp 47 | 24°55 | 0810 | 1°18 | 22°44 | 27°24 | 7°39 | 4°28 | 19° 0 | 14°21 | 14°33 | 4°16 | 9° 3 | S 9 |
| S 10 | 11 12 6 | 19°51'25 | 17°42 | 26°21 | 0°44 | 2° 0 | 22°43 | 27°19 | 7°42 | 4°30 | 19° 0 | 14° 7 | 14°29 | 4°23 | 9° 6 | S 10 |
| M11 | 11 16 2 | 20°51'08 | 0 ჲ 51 | 27°48 | 1°16 | 2°43 | 22°43 | 27°15 | 7°45 | 4°32 | 18°59 | 13°54 | 14°26 | 4°29 | 9° 9 | M11 |
| T 12 | 11 19 59 | 21°50'50 | 14°14 | 29°16 | 1°47 | 3°25 | 22°42 | 27°10 | 7°47 | 4°34 | 18°58 | 13°43 | 14°23 | 4°36 | 9°12 | T 12 |
| W13 | 11 23 55 | 22°50'30 | 27°48 | 0 ∺ 46 | 2°16 | 4° 8 | 22°42 | 27° 5 | 7°50 | 4°37 | 18°58 | 13°34 | 14°20 | 4°43 | 9°16 | W13 |
| T 14 | 11 27 52 | 23°50'08 | 11 M .31 | 2°18 | 2°44 | 4°50 | 22°41 | 27° 0 | 7°53 | 4°39 | 18°58 | 13°28 | 14°17 | 4°49 | 9°19 | T 14 |
| F 15 | 11 31 48 | 24°49'44 | 25°22 | 3°50 | 3°10 | 5°32 | 22°40 | 26°56 | 7°55 | 4°41 | 18°57 | 13°25 | 14°13 | 4°56 | 9°22 | F 15 |
| S 16 | 11 35 45 | 25°49'18 | 9 ,7 18 | 5°24 | 3°35 | 6°15 | 22°38 | 26°51 | 7°58 | 4°43 | 18°57 | 13°D24 | 14°10 | 5° 3 | 9°25 | S 16 |
| S 17 | 11 39 42 | 26°48'51 | 23°20 | 6°59 | 3°57 | 6°57 | 22°37 | 26°46 | 8° 1 | 4°45 | 18°56 | 13°R24 | 14° 7 | 5° 9 | 9°28 | S 17 |
| M18 | 11 43 38 | 27°48'22 | 7 궁 27 | 8°36 | 4°18 | 7°39 | 22°35 | 26°42 | 8° 4 | 4°47 | 18°56 | 13°23 | 14° 4 | 5°16 | 9°32 | M18 |
| T 19 | 11 47 35 | 28°47'52 | 21°37 | 10°13 | 4°37 | 8°21 | 22°33 | 26°37 | 8° 6 | 4°50 | 18°56 | 13°22 | 14° 1 | 5°23 | 9°35 | T 19 |
| W20 | 11 51 31 | 29°47'19 | 5≈49 | 11°53 | 4°53 | 9° 3 | 22°31 | 26°32 | 8° 9 | 4°52 | 18°55 | 13°17 | 13°58 | 5°29 | 9°39 | W20 |
| T 21 | 11 55 28 | 0 Υ 46'45 | 20° 2 | 13°33 | 5° 8 | 9°45 | 22°29 | 26°27 | 8°12 | 4°54 | 18°55 | 13°11 | 13°54 | 5°36 | 9°42 | T 21 |
| F 22 | 11 59 24 | 1°46'09 | 4) €10 | 15°15 | 5°21 | 10°27 | 22°26 | 26°23 | 8°15 | 4°56 | 18°55 | 13° 1 | 13°51 | 5°43 | 9°45 | F 22 S 23 |
| S 23 | 12 3 21 | 2°45'31 | 18° 9 | 16°58 | 5°32 | 11° 9 | 22°24 | 26°18 | 8°18 | 4°58 | 18°55 | 12°50 | 13°48 | 5°49 | 9°49 | |
| S 24 | 12 7 17 | 3°44'51 | 1 Υ 54 | 18°42 | 5°40 | 11°51 | 22°21 | 26°13 | 8°21 | 5° 0 | 18°54 | 12°39 | 13°45 | 5°56 | 9°52 | S 24 |
| M25 | 12 11 14 | 4°44'08 | 15°23 | 20°28 | 5°46 | 12°33 | 22°18 | 26° 9 | 8°24 | 5° 2 | 18°54 | 12°28 | 13°42 | 6° 3 | 9°56 | M25 |
| T 26 | 12 15 10 | 5°43'24 | 28°32 | 22°15 | 5°50 | 13°15 | 22°15 | 26° 4 | 8°27 | 5° 4 | 18°54 | 12°19 | 13°38 | 6° 9 | 10° 0 | T 26 |
| W27 | 12 19 7 | 6°42'38 | 11820 | 24° 4 | 5°R51 | 13°57 | 22°11 | 26° 0 | 8°30 | 5° 6 | 18°54 | 12°12 | 13°35 | 6°16 | 10° 3 | W27 |
| T 28 | 12 23 4 | 7°41'49 | 23°50 | 25°54 | 5°50 | 14°39 | 22° 8 | 25°55 | 8°33 | 5° 8 | 18°54 | 12° 8 | 13°32 | 6°23 | 10° 7 | T 28 |
| F 29 | 12 27 0 | 8°40'58 | 6 I I 2 | 27°45 | 5°47 | 15°20 | 22° 4 | 25°50 | 8°36 | 5°10 | 18°54 | 12° 6 | 13°29 | 6°29 | 10°11 | F 29 |
| S 30 | 12 30 57 | 9°40'05 | 18° 2 | 29°38 | 5°41 | 16° 2 | 22° 0 | 25°46 | 8°39 | 5°12 | 18°54 | 12°D 6 | 13°26 | 6°36 | 10°14 | S 30 |
| S 31 | 12 34 53 | 10 Y 39'10 | 29∏54 | 1 Υ 32 | 5 8 32 | 16 8 44 | 21 M .56 | 25 Mp 41 | 8 8 43 | 5) 14 | 18953 | 12 II 7 | 13耳23 | 6 ୭ 43 | 10818 | S 31 |

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| M 1 | 12 38 50 | 11 Y 38'12 | 119542 | 3 Υ28 | 5°R21 | 17 8 25 | 21°R52 | 25°R37 | 8 8 46 | 5) (16 | 18°D53 | 12°R 7 | 13 Ⅱ 19 | 69549 | 10822 | M 1 |
| T 2 | 12 42 46 | 12°37'12 | 23°33 | 5°25 | 5 8 8 | 18° 7 | 21 M .48 | 25 M 33 | 8°49 | 5°18 | 18953 | 12 II 7 | 13°16 | 6°56 | 10°26 | T 2 |
| W 3 | 12 46 43 | 13°36'10 | 5 Ω 32 | 7°23 | 4°52 | 18°49 | 21°43 | 25°28 | 8°52 | 5°20 | 18°54 | 12° 4 | 13°13 | 7° 3 | 10°29 | W 3 |
| T 4 | 12 50 39 | 14°35'05 | 17°44 | 9°22 | 4°34 | 19°30 | 21°39 | 25°24 | 8°55 | 5°22 | 18°54 | 11°59 | 13°10 | 7° 9 | 10°33 | T 4 |
| F 5 | 12 54 36 | 15°33'58 | 0 Mp 12 | 11°23 | 4°13 | 20°12 | 21°34 | 25°20 | 8°59 | 5°23 | 18°54 | 11°52 | 13° 7 | 7°16 | 10°37 | F 5 |
| S 6 | 12 58 33 | 16°32'49 | 12°59 | 13°25 | 3°50 | 20°53 | 21°29 | 25°15 | 9° 2 | 5°25 | 18°54 | 11°44 | 13° 4 | 7°23 | 10°41 | S 6 |
| S 7 | 13 2 29 | 17°31'37 | 26° 6 | 15°29 | 3°25 | 21°34 | 21°24 | 25°11 | 9° 5 | 5°27 | 18°54 | 11°34 | 13° 0 | 7°29 | 10°45 | S 7 |
| M 8 | 13 6 26 | 18°30'24 | 9 ॒ 34 | 17°33 | 2°58 | 22°16 | 21°18 | 25° 7 | 9° 8 | 5°29 | 18°54 | 11°25 | 12°57 | 7°36 | 10°49 | M 8 |
| T 9 | 13 10 22 | 19°29'08 | 23°19 | 19°38 | 2°29 | 22°57 | 21°13 | 25° 3 | 9°12 | 5°31 | 18°54 | 11°17 | 12°54 | 7°42 | 10°53 | T 9 |
| W10 | 13 14 19 | 20°27'51 | 7 ™ 18 | 21°44 | 1°58 | 23°38 | 21° 8 | 24°59 | 9°15 | 5°32 | 18°54 | 11°11 | 12°51 | 7°49 | 10°57 | W10 |
| T 11 | 13 18 15 | 21°26'31 | 21°27 | 23°51 | 1°25 | 24°20 | 21° 2 | 24°55 | 9°18 | 5°34 | 18°55 | 11° 7 | 12°48 | 7°56 | 11° 1 | T 11 |
| F 12 | 13 22 12 | 22°25'10 | 5 ₹ 42 | 25°58 | 0°51 | 25° 1 | 20°56 | 24°51 | 9°22 | 5°36 | 18°55 | 11°D 5 | 12°44 | 8° 2 | 11° 5 | F 12 |
| S 13 | 13 26 8 | 23°23'47 | 19°59 | 28° 5 | 0°16 | 25°42 | 20°50 | 24°47 | 9°25 | 5°38 | 18°55 | 11° 5 | 12°41 | 8° 9 | 11° 9 | S 13 |
| S 14 | 13 30 5 | 24°22'23 | 4 ට 15 | 0812 | 29 Y 40 | 26°23 | 20°44 | 24°43 | 9°28 | 5°39 | 18°56 | 11° 7 | 12°38 | 8°16 | 11°13 | S 14 |
| M15 | 13 34 2 | 25°20'57 | 18°27 | 2°18 | 29° 3 | 27° 4 | 20°38 | 24°40 | 9°32 | 5°41 | 18°56 | 11°8 | 12°35 | 8°22 | 11°17 | M15 |
| T 16 | 13 37 58 | 26°19'29 | 2≈34 | 4°24 | 28°25 | 27°45 | 20°32 | 24°36 | 9°35 | 5°42 | 18°56 | 11°R 8 | 12°32 | 8°29 | 11°21 | T 16 |
| W17 | 13 41 55 | 27°18'00 | 16°35 | 6°29 | 27°47 | 28°26 | 20°25 | 24°32 | 9°39 | 5°44 | 18°57 | 11° 6 | 12°29 | 8°36 | 11°25 | W17 |
| T 18 | 13 45 51 | 28°16'29 | 0 ∺ 27 | 8°33 | 27° 9 | 29° 7 | 20°19 | 24°29 | 9°42 | 5°46 | 18°57 | 11° 2 | 12°25 | 8°42 | 11°29 | T 18 |
| F 19 | 13 49 48 | 29°14'56 | 14°11 | 10°35 | 26°32 | 29°48 | 20°12 | 24°25 | 9°45 | 5°47 | 18°57 | 10°57 | 12°22 | 8°49 | 11°33 | F 19 |
| S 20 | 13 53 44 | 0 8 13'22 | 27°43 | 12°35 | 25°55 | 0П29 | 20° 5 | 24°22 | 9°49 | 5°49 | 18°58 | 10°51 | 12°19 | 8°56 | 11°37 | S 20 |
| S 21 | 13 57 41 | 1°11'46 | 11 ° 2 | 14°32 | 25°18 | 1°10 | 19°59 | 24°19 | 9°52 | 5°50 | 18°58 | 10°44 | 12°16 | 9° 2 | 11°41 | S 21 |
| M22 | 14 137 | 2°10'08 | 24° 8 | 16°28 | 24°43 | 1°51 | 19°52 | 24°16 | 9°56 | 5°52 | 18°59 | 10°38 | 12°13 | 9° 9 | 11°45 | M22 |
| T 23 | 14 5 34 | 3° 8'28 | 6 8 58 | 18°20 | 24° 8 | 2°31 | 19°45 | 24°12 | 9°59 | 5°53 | 18°59 | 10°32 | 12°10 | 9°16 | 11°50 | T 23 |
| W24 | 14 9 31 | 4° 6'47 | 19°33 | 20° 9 | 23°35 | 3°12 | 19°38 | 24° 9 | 10° 3 | 5°55 | 19° 0 | 10°29 | 12° 6 | 9°22 | 11°54 | W24 |
| T 25 | 14 13 27 | 5° 5'03 | 1 II 53 | 21°55 | 23° 4 | 3°53 | 19°31 | 24° 6 | 10° 6 | 5°56 | 19° 1 | 10°27 | 12° 3 | 9°29 | 11°58 | T 25 |
| F 26 | 14 17 24 | 6° 3'18 | 14° 0 | 23°38 | 22°34 | 4°34 | 19°23 | 24° 3 | 10°10 | 5°57 | 19° 1 | 10°D26 | 12° 0 | 9°36 | 12° 2 | F 26 |
| S 27 | 14 21 20 | 7° 1'31 | 25°58 | 25°17 | 22° 6 | 5°14 | 19°16 | 24° 1 | 10°13 | 5°59 | 19° 2 | 10°27 | 11°57 | 9°42 | 12° 6 | S 27 |
| S 28 | 14 25 17 | 7°59'42 | 79549 | 26°52 | 21°40 | 5°55 | 19° 9 | 23°58 | 10°17 | 6° 0 | 19° 2 | 10°29 | 11°54 | 9°49 | 12°10 | S 28 |
| M29 | 14 29 13 | 8°57'51 | 19°37 | 28°24 | 21°16 | 6°35 | 19° 1 | 23°55 | 10°20 | 6° 1 | 19° 3 | 10°31 | 11°50 | 9°56 | 12°15 | M29 |
| T 30 | 14 33 10 | 9 8 55'58 | 1 Ω 29 | 29 8 51 | 20 Υ 54 | 7 Ⅱ 16 | 18 M 54 | 23 m 53 | 10824 | 6 米 2 | 1995 4 | 10耳32 | 11 Ⅱ 47 | 1095 2 | 12 8 19 | T 30 |

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| Day | Sid.t | 0 | D | φ. | Ŷ | ♂ | 4 | ħ |)Å(| 并 | В | ß | c | Ç | ۰۵ | Day |
|------|----------|------------------|-----------------|---------------|----------------|-----------------|-----------------|----------|-------|---------------|--------|----------------|----------------|--------|----------------|------|
| W 1 | 14 37 6 | 10854'04 | 13 Ω 28 | 1 Ⅱ 15 | 20°R35 | 7 Ⅱ 57 | 18°R47 | 23°R50 | 10827 | 6 ∺ 4 | 1995 4 | 10°R32 | 11 Ⅱ 44 | 1095 9 | 12 8 23 | W 1 |
| T 2 | 14 41 3 | 11°52'07 | 25°39 | 2°34 | 20 Υ 18 | 8°37 | 18 M .39 | 23 Mp 48 | 10°30 | 6° 5 | 19° 5 | 10 Ⅲ 31 | 11°41 | 10°16 | 12°27 | T 2 |
| F 3 | 14 45 0 | 12°50'08 | 8 m) 8 | 3°50 | 20° 3 | 9°17 | 18°32 | 23°46 | 10°34 | 6° 6 | 19° 6 | 10°29 | 11°38 | 10°22 | 12°31 | F 3 |
| S 4 | 14 48 56 | 13°48'07 | 20°57 | 5° 1 | 19°51 | 9°58 | 18°24 | 23°43 | 10°37 | 6° 7 | 19° 7 | 10°26 | 11°35 | 10°29 | 12°36 | S 4 |
| S 5 | 14 52 53 | 14°46'05 | 4 ♀ 9 | 6° 7 | 19°41 | 10°38 | 18°16 | 23°41 | 10°41 | 6° 8 | 19°8 | 10°22 | 11°31 | 10°36 | 12°40 | S 5 |
| M 6 | 14 56 49 | 15°44'00 | 17°45 | 7°10 | 19°33 | 11°18 | 18° 9 | 23°39 | 10°44 | 6° 9 | 19°8 | 10°19 | 11°28 | 10°42 | 12°44 | M 6 |
| T 7 | 15 0 46 | 16°41'54 | 1 M .44 | 8° 7 | 19°28 | 11°59 | 18° 1 | 23°37 | 10°48 | 6°10 | 19° 9 | 10°15 | 11°25 | 10°49 | 12°48 | T 7 |
| W 8 | 15 4 42 | 17°39'47 | 16° 2 | 9° 1 | 19°26 | 12°39 | 17°53 | 23°36 | 10°51 | 6°11 | 19°10 | 10°13 | 11°22 | 10°56 | 12°52 | W 8 |
| T 9 | 15 8 39 | 18°37'38 | 0 ∡ 35 | 9°49 | 19°D25 | 13°19 | 17°46 | 23°34 | 10°55 | 6°12 | 19°11 | 10°12 | 11°19 | 11° 2 | 12°57 | T 9 |
| F 10 | 15 12 35 | 19°35'27 | 15°16 | 10°33 | 19°27 | 13°59 | 17°38 | 23°32 | 10°58 | 6°13 | 19°12 | 10°D12 | 11°15 | 11° 9 | 13° 1 | F 10 |
| S 11 | 15 16 32 | 20°33'16 | 29°59 | 11°13 | 19°32 | 14°40 | 17°31 | 23°31 | 11° 2 | 6°14 | 19°13 | 10°12 | 11°12 | 11°16 | 13° 5 | S 11 |
| S 12 | 15 20 29 | 21°31'03 | 14 궁 37 | 11°48 | 19°39 | 15°20 | 17°23 | 23°29 | 11° 5 | 6°15 | 19°14 | 10°14 | 11° 9 | 11°22 | 13° 9 | S 12 |
| M13 | 15 24 25 | 22°28'49 | 29° 5 | 12°17 | 19°47 | 16° 0 | 17°15 | 23°28 | 11°8 | 6°16 | 19°15 | 10°15 | 11° 6 | 11°29 | 13°13 | M13 |
| T 14 | 15 28 22 | 23°26'33 | 13 ≈ 21 | 12°42 | 19°58 | 16°40 | 17° 8 | 23°27 | 11°12 | 6°17 | 19°16 | 10°16 | 11° 3 | 11°36 | 13°17 | T 14 |
| W15 | 15 32 18 | 24°24'17 | 27°21 | 13° 3 | 20°12 | 17°20 | 17° 0 | 23°25 | 11°15 | 6°18 | 19°17 | 10°R16 | 11° 0 | 11°42 | 13°22 | W15 |
| T 16 | 15 36 15 | 25°21'59 | 11 米 5 | 13°18 | 20°27 | 18° 0 | 16°53 | 23°24 | 11°19 | 6°18 | 19°18 | 10°15 | 10°56 | 11°49 | 13°26 | T 16 |
| F 17 | 15 40 11 | 26°19'41 | 24°33 | 13°28 | 20°44 | 18°40 | 16°45 | 23°24 | 11°22 | 6°19 | 19°19 | 10°14 | 10°53 | 11°56 | 13°30 | F 17 |
| S 18 | 15 44 8 | 27°17'21 | 7 Ƴ 45 | 13°34 | 21° 3 | 19°20 | 16°38 | 23°23 | 11°25 | 6°20 | 19°20 | 10°13 | 10°50 | 12° 2 | 13°34 | S 18 |
| S 19 | 15 48 4 | 28°15'00 | 20°43 | 13°R35 | 21°23 | 20° 0 | 16°30 | 23°22 | 11°29 | 6°21 | 19°21 | 10°11 | 10°47 | 12° 9 | 13°38 | S 19 |
| M20 | 15 52 1 | 29°12'38 | 3 8 26 | 13°32 | 21°46 | 20°40 | 16°23 | 23°21 | 11°32 | 6°21 | 19°22 | 10° 9 | 10°44 | 12°16 | 13°42 | M20 |
| T 21 | 15 55 58 | 0 Ⅱ 10'16 | 15°56 | 13°24 | 22°10 | 21°19 | 16°16 | 23°21 | 11°35 | 6°22 | 19°23 | 10° 8 | 10°41 | 12°22 | 13°46 | T 21 |
| W22 | 15 59 54 | 1° 7'52 | 28°14 | 13°11 | 22°36 | 21°59 | 16° 9 | 23°20 | 11°39 | 6°22 | 19°24 | 10° 8 | 10°37 | 12°29 | 13°50 | W22 |
| T 23 | 16 3 51 | 2° 5'27 | 10 Ⅲ 22 | 12°55 | 23° 4 | 22°39 | 16° 1 | 23°20 | 11°42 | 6°23 | 19°25 | 10°D 7 | 10°34 | 12°36 | 13°54 | T 23 |
| F 24 | 16 7 47 | 3° 3'00 | 22°22 | 12°35 | 23°33 | 23°19 | 15°54 | 23°20 | 11°45 | 6°23 | 19°27 | 10° 7 | 10°31 | 12°42 | 13°58 | F 24 |
| S 25 | 16 11 44 | 4° 0'33 | 49915 | 12°11 | 24° 3 | 23°59 | 15°47 | 23°20 | 11°49 | 6°24 | 19°28 | 10° 8 | 10°28 | 12°49 | 14° 2 | S 25 |
| S 26 | 16 15 40 | 4°58'04 | 16° 4 | 11°45 | 24°35 | 24°38 | 15°41 | 23°D20 | 11°52 | 6°24 | 19°29 | 10° 9 | 10°25 | 12°56 | 14° 6 | S 26 |
| M27 | 16 19 37 | 5°55'35 | 27°53 | 11°16 | 25° 8 | 25°18 | 15°34 | 23°20 | 11°55 | 6°25 | 19°30 | 10° 9 | 10°21 | 13° 2 | 14°10 | M27 |
| T 28 | 16 23 33 | 6°53'04 | 9 Ω 45 | 10°46 | 25°42 | 25°58 | 15°27 | 23°20 | 11°58 | 6°25 | 19°31 | 10° 9 | 10°18 | 13° 9 | 14°14 | T 28 |
| W29 | 16 27 30 | 7°50'31 | 21°44 | 10°13 | 26°18 | 26°37 | 15°20 | 23°20 | 12° 2 | 6°26 | 19°33 | 10°10 | 10°15 | 13°16 | 14°18 | W29 |
| T 30 | 16 31 27 | 8°47'57 | 3 M 54 | 9°40 | 26°55 | 27°17 | 15°14 | 23°21 | 12° 5 | 6°26 | 19°34 | 10°10 | 10°12 | 13°22 | 14°22 | T 30 |
| F 31 | 16 35 23 | 9 Ⅱ 45'23 | 16 M p20 | 9耳 6 | 27 Y 33 | 27 II 56 | 15 ™ 7 | 23 Mp 21 | 128 8 | 6 ∺ 26 | 19935 | 10耳10 | 10耳 9 | 139529 | 14 8 26 | F 31 |

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|------|----------|-------------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|---------------|-------|-----------------|-----------------|-------|----------------|------|
| S 1 | 16 39 20 | 10 Ⅱ 42'46 | 29M) 6 | 8°R33 | 28 Y 12 | 28 II 36 | 15°R 1 | 23 m 22 | 12 8 11 | 6 ∺ 26 | 19936 | 10 II 10 | 10 I I 6 | 13936 | 14830 | S 1 |
| S 2 | 16 43 16 | 11°40'09 | 12 ≏ 15 | 8 I 1 | 28°53 | 29°15 | 14 M 55 | 23°22 | 12°14 | 6°27 | 19°38 | 10°10 | 10° 2 | 13°42 | 14°34 | S 2 |
| M 3 | 16 47 13 | 12°37'31 | 25°50 | 7°29 | 29°34 | 29°55 | 14°49 | 23°23 | 12°17 | 6°27 | 19°39 | 10°10 | 9°59 | 13°49 | 14°38 | M 3 |
| T 4 | 16 51 9 | 13°34'51 | 9 M 52 | 7° 0 | 0816 | 0934 | 14°43 | 23°24 | 12°21 | 6°27 | 19°40 | 10°10 | 9°56 | 13°56 | 14°42 | T 4 |
| W 5 | 16 55 6 | 14°32'11 | 24°17 | 6°33 | 0°59 | 1°14 | 14°37 | 23°25 | 12°24 | 6°27 | 19°42 | 10°11 | 9°53 | 14° 2 | 14°45 | W 5 |
| T 6 | 16 59 2 | 15°29'30 | 9 . ₹ 3 | 6° 9 | 1°43 | 1°53 | 14°31 | 23°26 | 12°27 | 6°27 | 19°43 | 10°R11 | 9°50 | 14° 9 | 14°49 | T 6 |
| F 7 | 17 2 59 | 16°26'48 | 24° 2 | 5°48 | 2°28 | 2°32 | 14°26 | 23°27 | 12°30 | 6°27 | 19°45 | 10°11 | 9°47 | 14°16 | 14°53 | F 7 |
| S 8 | 17 6 56 | 17°24'06 | 9 ප 6 | 5°31 | 3°14 | 3°12 | 14°20 | 23°29 | 12°33 | 6°R27 | 19°46 | 10°10 | 9°43 | 14°22 | 14°57 | S 8 |
| S 9 | 17 10 52 | 18°21'23 | 24° 7 | 5°17 | 4° 1 | 3°51 | 14°15 | 23°30 | 12°36 | 6°27 | 19°47 | 10° 9 | 9°40 | 14°29 | 15° 0 | S 9 |
| M10 | 17 14 49 | 19°18'39 | 8≈56 | 5° 8 | 4°49 | 4°30 | 14°10 | 23°32 | 12°39 | 6°27 | 19°49 | 10° 8 | 9°37 | 14°36 | 15° 4 | M10 |
| T 11 | 17 18 45 | 20°15'55 | 23°27 | 5° 3 | 5°37 | 5° 9 | 14° 5 | 23°33 | 12°42 | 6°27 | 19°50 | 10° 7 | 9°34 | 14°42 | 15° 8 | T 11 |
| W12 | 17 22 42 | 21°13'11 | 7 ∺ 36 | 5°D 3 | 6°26 | 5°49 | 14° 0 | 23°35 | 12°44 | 6°27 | 19°52 | 10° 7 | 9°31 | 14°49 | 15°11 | W12 |
| T 13 | 17 26 38 | 22°10'26 | 21°22 | 5° 7 | 7°16 | 6°28 | 13°55 | 23°37 | 12°47 | 6°27 | 19°53 | 10°D 6 | 9°27 | 14°56 | 15°15 | T 13 |
| F 14 | 17 30 35 | 23° 7'42 | 4 Υ 45 | 5°15 | 8° 6 | 7° 7 | 13°51 | 23°39 | 12°50 | 6°27 | 19°55 | 10° 7 | 9°24 | 15° 2 | 15°18 | F 14 |
| S 15 | 17 34 31 | 24° 4'57 | 17°46 | 5°28 | 8°57 | 7°46 | 13°46 | 23°41 | 12°53 | 6°27 | 19°56 | 10° 7 | 9°21 | 15° 9 | 15°22 | S 15 |
| S 16 | 17 38 28 | 25° 2'11 | 0 8 29 | 5°46 | 9°49 | 8°25 | 13°42 | 23°43 | 12°56 | 6°26 | 19°57 | 10° 9 | 9°18 | 15°16 | 15°25 | S 16 |
| M17 | 17 42 25 | 25°59'26 | 12°56 | 6° 9 | 10°41 | 9° 5 | 13°38 | 23°45 | 12°59 | 6°26 | 19°59 | 10°10 | 9°15 | 15°22 | 15°29 | M17 |
| T 18 | 17 46 21 | 26°56'40 | 25°11 | 6°36 | 11°34 | 9°44 | 13°34 | 23°47 | 13° 1 | 6°26 | 20° 0 | 10°11 | 9°12 | 15°29 | 15°32 | T 18 |
| W19 | 17 50 18 | 27°53'55 | 7 Ⅱ 16 | 7° 8 | 12°27 | 10°23 | 13°30 | 23°50 | 13° 4 | 6°25 | 20° 2 | 10°R12 | 9° 8 | 15°36 | 15°36 | W19 |
| T 20 | 17 54 14 | 28°51'09 | 19°13 | 7°44 | 13°21 | 11° 2 | 13°27 | 23°52 | 13° 7 | 6°25 | 20° 4 | 10°11 | 9° 5 | 15°42 | 15°39 | T 20 |
| F 21 | 17 58 11 | 29°48'23 | 199 6 | 8°25 | 14°16 | 11°41 | 13°23 | 23°55 | 13° 9 | 6°25 | 20° 5 | 10°10 | 9° 2 | 15°49 | 15°42 | F 21 |
| S 22 | 18 2 7 | 0945'36 | 12°55 | 9°10 | 15°11 | 12°20 | 13°20 | 23°57 | 13°12 | 6°24 | 20° 7 | 10° 8 | 8°59 | 15°56 | 15°45 | S 22 |
| S 23 | 18 6 4 | 1°42'49 | 24°44 | 9°59 | 16° 6 | 12°59 | 13°17 | 24° 0 | 13°14 | 6°24 | 20° 8 | 10° 5 | 8°56 | 16° 2 | 15°49 | S 23 |
| M24 | 18 10 1 | 2°40'02 | 6Ω 34 | 10°53 | 17° 2 | 13°38 | 13°14 | 24° 3 | 13°17 | 6°23 | 20°10 | 10° 1 | 8°53 | 16° 9 | 15°52 | M24 |
| T 25 | 18 13 57 | 3°37'15 | 18°28 | 11°51 | 17°59 | 14°17 | 13°11 | 24° 6 | 13°19 | 6°23 | 20°11 | 9°58 | 8°49 | 16°16 | 15°55 | T 25 |
| W26 | 18 17 54 | 4°34'27 | 0 m /30 | 12°53 | 18°55 | 14°56 | 13° 9 | 24° 9 | 13°22 | 6°22 | 20°13 | 9°54 | 8°46 | 16°22 | 15°58 | W26 |
| T 27 | 18 21 50 | 5°31'39 | 12°41 | 13°59 | 19°53 | 15°35 | 13° 6 | 24°12 | 13°24 | 6°22 | 20°14 | 9°51 | 8°43 | 16°29 | 16° 1 | T 27 |
| F 28 | 18 25 47 | 6°28'51 | 25° 6 | 15° 9 | 20°50 | 16°13 | 13° 4 | 24°15 | 13°27 | 6°21 | 20°16 | 9°50 | 8°40 | 16°36 | 16° 4 | F 28 |
| S 29 | 18 29 43 | 7°26'02 | 7 ≙ 48 | 16°23 | 21°48 | 16°52 | 13° 2 | 24°18 | 13°29 | 6°21 | 20°18 | 9°D49 | 8°37 | 16°43 | 16° 7 | S 29 |
| S 30 | 18 33 40 | 8923'13 | 20 ≏ 52 | 17 Ⅱ 42 | 22847 | 17931 | 13 M 0 | 24 Mp 22 | 13 8 31 | 6 ∺ 20 | 20919 | 9 耳 50 | 8Д33 | 16949 | 16 8 10 | S 30 |

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| M 1 | 18 37 36 | 99520'24 | 4 M .19 | 19Ⅱ 4 | 23 8 45 | 189510 | 12°R59 | 24 Mp 25 | 13 8 34 | 6°R19 | 209521 | 9 Ⅱ 51 | 8Д30 | 16956 | 16 8 13 | M 1 |
| T 2 | 18 41 33 | 10°17'34 | 18°14 | 20°29 | 24°45 | 18°49 | 12 M 57 | 24°29 | 13°36 | 6) €18 | 20°22 | 9°52 | 8°27 | 17° 3 | 16°16 | T 2 |
| W 3 | 18 45 30 | 11°14'45 | 2 , ₹34 | 21°59 | 25°44 | 19°28 | 12°56 | 24°32 | 13°38 | 6°18 | 20°24 | 9°R53 | 8°24 | 17° 9 | 16°19 | W 3 |
| T 4 | 18 49 26 | 12°11'55 | 17°19 | 23°32 | 26°44 | 20° 6 | 12°55 | 24°36 | 13°40 | 6°17 | 20°25 | 9°53 | 8°21 | 17°16 | 16°22 | T 4 |
| F 5 | 18 53 23 | 13° 9'06 | 2 る 22 | 25° 9 | 27°44 | 20°45 | 12°54 | 24°40 | 13°43 | 6°16 | 20°27 | 9°52 | 8°18 | 17°23 | 16°24 | F 5 |
| S 6 | 18 57 19 | 14° 6'16 | 17°36 | 26°50 | 28°45 | 21°24 | 12°53 | 24°44 | 13°45 | 6°15 | 20°29 | 9°49 | 8°14 | 17°29 | 16°27 | S 6 |
| S 7 | 19 1 16 | 15° 3'27 | 2≈51 | 28°34 | 29°46 | 22° 2 | 12°52 | 24°48 | 13°47 | 6°14 | 20°30 | 9°45 | 8°11 | 17°36 | 16°30 | S 7 |
| M 8 | 19 5 12 | 16° 0'38 | 17°55 | 09୍ଦ21 | 0 Ⅱ 47 | 22°41 | 12°52 | 24°52 | 13°49 | 6°14 | 20°32 | 9°40 | 8° 8 | 17°43 | 16°32 | M 8 |
| T 9 | 19 9 9 | 16°57'50 | 2) (41 | 2°11 | 1°48 | 23°20 | 12°52 | 24°56 | 13°51 | 6°13 | 20°34 | 9°34 | 8° 5 | 17°49 | 16°35 | T 9 |
| W10 | 19 13 5 | 17°55'02 | 17° 3 | 4° 4 | 2°50 | 23°58 | 12°D52 | 25° 0 | 13°53 | 6°12 | 20°35 | 9°30 | 8° 2 | 17°56 | 16°37 | W10 |
| T 11 | 19 17 2 | 18°52'15 | 0 Υ 56 | 6° 0 | 3°52 | 24°37 | 12°52 | 25° 5 | 13°55 | 6°11 | 20°37 | 9°27 | 7°59 | 18° 3 | 16°40 | T 11 |
| F 12 | 19 20 59 | 19°49'28 | 14°21 | 7°59 | 4°54 | 25°16 | 12°52 | 25° 9 | 13°56 | 6°10 | 20°38 | 9°D26 | 7°55 | 18° 9 | 16°42 | F 12 |
| S 13 | 19 24 55 | 20°46'42 | 27°21 | 9°59 | 5°57 | 25°54 | 12°52 | 25°13 | 13°58 | 6° 9 | 20°40 | 9°26 | 7°52 | 18°16 | 16°45 | S 13 |
| S 14 | 19 28 52 | 21°43'57 | 9 8 58 | 12° 2 | 7° 0 | 26°33 | 12°53 | 25°18 | 14° 0 | 6° 8 | 20°42 | 9°27 | 7°49 | 18°23 | 16°47 | S 14 |
| M15 | 19 32 48 | 22°41'12 | 22°17 | 14° 6 | 8° 3 | 27°12 | 12°54 | 25°22 | 14° 2 | 6° 7 | 20°43 | 9°28 | 7°46 | 18°29 | 16°49 | M15 |
| T 16 | 19 36 45 | 23°38'29 | 4 Ⅱ 23 | 16°11 | 9° 6 | 27°50 | 12°55 | 25°27 | 14° 3 | 6° 6 | 20°45 | 9°R29 | 7°43 | 18°36 | 16°52 | T 16 |
| W17 | 19 40 41 | 24°35'46 | 16°19 | 18°18 | 10°10 | 28°29 | 12°56 | 25°32 | 14° 5 | 6° 4 | 20°46 | 9°29 | 7°39 | 18°43 | 16°54 | W17 |
| T 18 | 19 44 38 | 25°33'04 | 28°10 | 20°25 | 11°13 | 29° 7 | 12°58 | 25°37 | 14° 7 | 6° 3 | 20°48 | 9°27 | 7°36 | 18°49 | 16°56 | T 18 |
| F 19 | 19 48 34 | 26°30'22 | 9959 | 22°32 | 12°17 | 29°46 | 12°59 | 25°42 | 14° 8 | 6° 2 | 20°50 | 9°23 | 7°33 | 18°56 | 16°58 | F 19 |
| S 20 | 19 52 31 | 27°27'42 | 21°47 | 24°40 | 13°22 | 0 Ω 24 | 13° 1 | 25°46 | 14°10 | 6° 1 | 20°51 | 9°17 | 7°30 | 19° 3 | 17° 0 | S 20 |
| S 21 | 19 56 28 | 28°25'02 | 3 Ω 38 | 26°47 | 14°26 | 1° 3 | 13° 3 | 25°52 | 14°11 | 6° 0 | 20°53 | 9° 9 | 7°27 | 19° 9 | 17° 2 | S 21 |
| M22 | 20 0 24 | 29°22'22 | 15°33 | 28°53 | 15°31 | 1°41 | 13° 5 | 25°57 | 14°13 | 5°59 | 20°55 | 9° 0 | 7°24 | 19°16 | 17° 4 | M22 |
| T 23 | 20 4 21 | 0Ω 19'44 | 27°34 | 1Ω 0 | 16°36 | 2°20 | 13° 7 | 26° 2 | 14°14 | 5°57 | 20°56 | 8°51 | 7°20 | 19°23 | 17° 6 | T 23 |
| W24 | 20 8 17 | 1°17'06 | 9 m 42 | 3° 5 | 17°41 | 2°58 | 13°10 | 26° 7 | 14°15 | 5°56 | 20°58 | 8°41 | 7°17 | 19°29 | 17° 7 | W24 |
| T 25 | 20 12 14 | 2°14'28 | 21°59 | 5° 9 | 18°46 | 3°37 | 13°12 | 26°12 | 14°17 | 5°55 | 20°59 | 8°34 | 7°14 | 19°36 | 17° 9 | T 25 |
| F 26 | 20 16 10 | 3°11'51 | 4 ≏ 28 | 7°12 | 19°51 | 4°15 | 13°15 | 26°18 | 14°18 | 5°53 | 21° 1 | 8°28 | 7°11 | 19°43 | 17°11 | F 26 |
| S 27 | 20 20 7 | 4° 9'15 | 17°11 | 9°14 | 20°57 | 4°53 | 13°18 | 26°23 | 14°19 | 5°52 | 21° 3 | 8°24 | 7° 8 | 19°50 | 17°12 | S 27 |
| S 28 | 20 24 3 | 5° 6'39 | 0 M .12 | 11°14 | 22° 3 | 5°32 | 13°21 | 26°29 | 14°20 | 5°51 | 21° 4 | 8°D23 | 7° 5 | 19°56 | 17°14 | S 28 |
| M29 | 20 28 0 | 6° 4'04 | 13°33 | 13°13 | 23° 9 | 6°10 | 13°24 | 26°34 | 14°21 | 5°49 | 21° 6 | 8°23 | 7° 1 | 20° 3 | 17°16 | M29 |
| T 30 | 20 31 57 | 7° 1'30 | 27°17 | 15°11 | 24°15 | 6°49 | 13°28 | 26°40 | 14°22 | 5°48 | 21° 7 | 8°24 | 6°58 | 20°10 | 17°17 | T 30 |
| W31 | 20 35 53 | 7 Ω 58'56 | 11 才 26 | 17 Ω 7 | 25 Ⅲ 21 | 7Ω 27 | 13 M 32 | 26 M 45 | 14823 | 5) 47 | 2195 9 | 8°R24 | 6耳55 | 209516 | 17 8 18 | W31 |

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| T 1 | 20 39 50 | 8 Ω 56'23 | 25 × 759 | 19 N 1 | 26Ⅲ28 | 8 N 5 | 13 M .35 | 26 M 51 | 14824 | 5°R45 | 219510 | 8°R23 | 6 Ⅱ 52 | 20923 | 17820 | T 1 |
| F 2 | 20 43 46 | 9°53'51 | 10 る 52 | 20°54 | 27°34 | 8°44 | 13°39 | 26°57 | 14°25 | 5) (44 | 21°12 | 8 Ⅱ 19 | 6°49 | 20°30 | 17°21 | F 2 |
| S 3 | 20 47 43 | 10°51'20 | 26° 0 | 22°46 | 28°41 | 9°22 | 13°44 | 27° 3 | 14°26 | 5°42 | 21°13 | 8°14 | 6°45 | 20°36 | 17°22 | S 3 |
| S 4 | 20 51 39 | 11°48'50 | 11≈13 | 24°35 | 29°48 | 10° 0 | 13°48 | 27° 9 | 14°27 | 5°41 | 21°15 | 8° 6 | 6°42 | 20°43 | 17°23 | S 4 |
| M 5 | 20 55 36 | 12°46'21 | 26°20 | 26°24 | 0ഇ55 | 10°39 | 13°52 | 27°15 | 14°28 | 5°39 | 21°17 | 7°56 | 6°39 | 20°50 | 17°24 | M 5 |
| T 6 | 20 59 32 | 13°43'53 | 11 米 13 | 28°11 | 2° 2 | 11°17 | 13°57 | 27°21 | 14°28 | 5°38 | 21°18 | 7°47 | 6°36 | 20°56 | 17°26 | T 6 |
| W 7 | 21 3 29 | 14°41'26 | 25°41 | 29°56 | 3°10 | 11°55 | 14° 2 | 27°27 | 14°29 | 5°36 | 21°20 | 7°38 | 6°33 | 21° 3 | 17°27 | W 7 |
| T 8 | 21 7 26 | 15°39'01 | 9 Υ 42 | 1 m 40 | 4°17 | 12°34 | 14° 7 | 27°33 | 14°30 | 5°35 | 21°21 | 7°32 | 6°30 | 21°10 | 17°27 | T 8 |
| F 9 | 21 11 22 | 16°36'37 | 23°12 | 3°22 | 5°25 | 13°12 | 14°12 | 27°39 | 14°30 | 5°33 | 21°23 | 7°27 | 6°26 | 21°16 | 17°28 | F 9 |
| S 10 | 21 15 19 | 17°34'15 | 6 8 15 | 5° 3 | 6°33 | 13°50 | 14°17 | 27°45 | 14°31 | 5°32 | 21°24 | 7°25 | 6°23 | 21°23 | 17°29 | S 10 |
| S 11 | 21 19 15 | 18°31'54 | 18°53 | 6°42 | 7°41 | 14°28 | 14°22 | 27°51 | 14°31 | 5°30 | 21°26 | 7°D24 | 6°20 | 21°30 | 17°30 | S 11 |
| M12 | 21 23 12 | 19°29'35 | 1 II 10 | 8°20 | 8°49 | 15° 7 | 14°28 | 27°58 | 14°32 | 5°29 | 21°27 | 7°R25 | 6°17 | 21°36 | 17°31 | M12 |
| T 13 | 21 27 8 | 20°27'18 | 13°14 | 9°56 | 9°58 | 15°45 | 14°34 | 28° 4 | 14°32 | 5°27 | 21°28 | 7°25 | 6°14 | 21°43 | 17°31 | T 13 |
| W14 | 21 31 5 | 21°25'02 | 25° 7 | 11°31 | 11° 6 | 16°23 | 14°39 | 28°10 | 14°32 | 5°26 | 21°30 | 7°23 | 6°11 | 21°50 | 17°32 | W14 |
| T 15 | 21 35 1 | 22°22'48 | 6956 | 13° 4 | 12°15 | 17° 1 | 14°45 | 28°17 | 14°33 | 5°24 | 21°31 | 7°20 | 6° 7 | 21°56 | 17°32 | T 15 |
| F 16 | 21 38 58 | 23°20'35 | 18°44 | 14°36 | 13°24 | 17°40 | 14°52 | 28°23 | 14°33 | 5°22 | 21°33 | 7°14 | 6° 4 | 22° 3 | 17°33 | F 16 |
| S 17 | 21 42 55 | 24°18'24 | 0 Ω 35 | 16° 7 | 14°32 | 18°18 | 14°58 | 28°30 | 14°33 | 5°21 | 21°34 | 7° 5 | 6° 1 | 22°10 | 17°33 | S 17 |
| S 18 | 21 46 51 | 25°16'14 | 12°31 | 17°36 | 15°41 | 18°56 | 15° 4 | 28°37 | 14°33 | 5°19 | 21°36 | 6°53 | 5°58 | 22°17 | 17°33 | S 18 |
| M19 | 21 50 48 | 26°14'06 | 24°34 | 19° 4 | 16°51 | 19°34 | 15°11 | 28°43 | 14°33 | 5°18 | 21°37 | 6°40 | 5°55 | 22°23 | 17°34 | M19 |
| T 20 | 21 54 44 | 27°12'00 | 6 M)45 | 20°30 | 18° 0 | 20°13 | 15°18 | 28°50 | 14°R33 | 5°16 | 21°38 | 6°27 | 5°51 | 22°30 | 17°34 | T 20 |
| W21 | 21 58 41 | 28° 9'55 | 19° 5 | 21°55 | 19° 9 | 20°51 | 15°25 | 28°57 | 14°33 | 5°14 | 21°40 | 6°14 | 5°48 | 22°37 | 17°34 | W21 |
| T 22 | 22 2 37 | 29° 7'51 | 1 ≏ 35 | 23°18 | 20°19 | 21°29 | 15°32 | 29° 3 | 14°33 | 5°13 | 21°41 | 6° 2 | 5°45 | 22°43 | 17°R34 | T 22 |
| F 23 | 22 6 34 | 0Mp 5'49 | 14°15 | 24°39 | 21°28 | 22° 7 | 15°39 | 29°10 | 14°33 | 5°11 | 21°42 | 5°53 | 5°42 | 22°50 | 17°34 | F 23 |
| S 24 | 22 10 30 | 1° 3'48 | 27° 7 | 25°59 | 22°38 | 22°45 | 15°46 | 29°17 | 14°33 | 5° 9 | 21°44 | 5°47 | 5°39 | 22°57 | 17°34 | S 24 |
| S 25 | 22 14 27 | 2° 1'48 | 10 M .13 | 27°17 | 23°48 | 23°24 | 15°53 | 29°24 | 14°32 | 5° 8 | 21°45 | 5°44 | 5°36 | 23° 3 | 17°34 | S 25 |
| M26 | 22 18 24 | 2°59'50 | 23°34 | 28°34 | 24°58 | 24° 2 | 16° 1 | 29°31 | 14°32 | 5° 6 | 21°46 | 5°43 | 5°32 | 23°10 | 17°34 | M26 |
| T 27 | 22 22 20 | 3°57'53 | 7 . ₹13 | 29°49 | 26° 8 | 24°40 | 16° 9 | 29°37 | 14°32 | 5° 4 | 21°47 | 5°43 | 5°29 | 23°17 | 17°33 | T 27 |
| W28 | 22 26 17 | 4°55'58 | 21°11 | 1 ♀ 2 | 27°18 | 25°18 | 16°16 | 29°44 | 14°31 | 5° 3 | 21°49 | 5°42 | 5°26 | 23°23 | 17°33 | W28 |
| T 29 | 22 30 13 | 5°54'04 | 5 る 29 | 2°13 | 28°28 | 25°56 | 16°24 | 29°51 | 14°31 | 5° 1 | 21°50 | 5°41 | 5°23 | 23°30 | 17°33 | T 29 |
| F 30 | 22 34 10 | 6°52'12 | 20° 4 | 3°22 | 29°38 | 26°34 | 16°32 | 29°58 | 14°30 | 5° 0 | 21°51 | 5°36 | 5°20 | 23°37 | 17°32 | F 30 |
| S 31 | 22 38 6 | 7 m 50'21 | 4≈53 | 4 ₽ 29 | 0 Ω 49 | 27 Ω 13 | 16 M 41 | 0 호 5 | 14 8 30 | 4) 58 | 21952 | 5 Ⅱ 30 | 5 Ⅱ 17 | 239543 | 17 8 32 | S 31 |

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SEPTEMBER 1686 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| 卉 | Р | ₽. | v | ţ | o k | Day |
|------|----------|------------------|-----------------|---------------|----------------|-----------------|-----------------|---------------|----------------|-----------------|--------|---------------|---------------|--------|----------------|------|
| S 1 | 22 42 3 | 8 mp 48'31 | 19≈50 | 5 ≙ 34 | 1 Ω 59 | 27 Ω 51 | 16 M .49 | 0 ჲ 12 | 14°R29 | 4°R56 | 219554 | 5°R20 | 5 Ⅱ 13 | 23950 | 17°R31 | S 1 |
| M 2 | 22 45 59 | 9°46'44 | 4) (44 | 6°37 | 3°10 | 28°29 | 16°57 | 0°20 | 14829 | 4 ₩ 55 | 21°55 | 5 II 9 | 5°10 | 23°57 | 17 8 30 | M 2 |
| T 3 | 22 49 56 | 10°44'57 | 19°28 | 7°37 | 4°21 | 29° 7 | 17° 6 | 0°27 | 14°28 | 4°53 | 21°56 | 4°58 | 5° 7 | 24° 4 | 17°30 | T 3 |
| W 4 | 22 53 53 | 11°43'13 | 3 Ƴ 52 | 8°35 | 5°32 | 29°45 | 17°14 | 0°34 | 14°27 | 4°51 | 21°57 | 4°47 | 5° 4 | 24°10 | 17°29 | W 4 |
| T 5 | 22 57 49 | 12°41'31 | 17°52 | 9°30 | 6°43 | 0 m 23 | 17°23 | 0°41 | 14°27 | 4°50 | 21°58 | 4°39 | 5° 1 | 24°17 | 17°28 | T 5 |
| F 6 | 23 1 46 | 13°39'50 | 1 8 25 | 10°21 | 7°54 | 1° 1 | 17°32 | 0°48 | 14°26 | 4°48 | 21°59 | 4°33 | 4°57 | 24°24 | 17°27 | F 6 |
| S 7 | 23 5 42 | 14°38'12 | 14°30 | 11°10 | 9° 5 | 1°40 | 17°41 | 0°55 | 14°25 | 4°46 | 22° 0 | 4°29 | 4°54 | 24°30 | 17°26 | S 7 |
| S 8 | 23 9 39 | 15°36'36 | 27°10 | 11°56 | 10°16 | 2°18 | 17°50 | 1° 3 | 14°24 | 4°45 | 22° 1 | 4°28 | 4°51 | 24°37 | 17°25 | S 8 |
| M 9 | 23 13 35 | 16°35'02 | 9 Ⅱ 30 | 12°37 | 11°28 | 2°56 | 17°59 | 1°10 | 14°23 | 4°43 | 22° 2 | 4°D28 | 4°48 | 24°44 | 17°24 | M 9 |
| T 10 | 23 17 32 | 17°33'30 | 21°35 | 13°15 | 12°39 | 3°34 | 18° 9 | 1°17 | 14°22 | 4°42 | 22° 3 | 4°R28 | 4°45 | 24°50 | 17°23 | T 10 |
| W11 | 23 21 28 | 18°32'00 | 3929 | 13°49 | 13°51 | 4°12 | 18°18 | 1°24 | 14°21 | 4°40 | 22° 5 | 4°27 | 4°42 | 24°57 | 17°22 | W11 |
| T 12 | 23 25 25 | 19°30'33 | 15°19 | 14°18 | 15° 2 | 4°50 | 18°28 | 1°32 | 14°20 | 4°38 | 22° 5 | 4°24 | 4°38 | 25° 4 | 17°21 | T 12 |
| F 13 | 23 29 22 | 20°29'08 | 27° 9 | 14°42 | 16°14 | 5°28 | 18°37 | 1°39 | 14°19 | 4°37 | 22° 6 | 4°19 | 4°35 | 25°10 | 17°19 | F 13 |
| S 14 | 23 33 18 | 21°27'44 | 9 Ω 3 | 15° 1 | 17°26 | 6° 6 | 18°47 | 1°46 | 14°18 | 4°35 | 22° 7 | 4°11 | 4°32 | 25°17 | 17°18 | S 14 |
| S 15 | 23 37 15 | 22°26'23 | 21° 5 | 15°15 | 18°38 | 6°45 | 18°57 | 1°54 | 14°16 | 4°34 | 22° 8 | 4° 1 | 4°29 | 25°24 | 17°17 | S 15 |
| M16 | 23 41 11 | 23°25'04 | 3 Mp 16 | 15°23 | 19°50 | 7°23 | 19° 7 | 2° 1 | 14°15 | 4°32 | 22° 9 | 3°49 | 4°26 | 25°31 | 17°15 | M16 |
| T 17 | 23 45 8 | 24°23'47 | 15°40 | 15°R24 | 21° 2 | 8° 1 | 19°17 | 2° 8 | 14°14 | 4°31 | 22°10 | 3°36 | 4°22 | 25°37 | 17°14 | T 17 |
| W18 | 23 49 4 | 25°22'32 | 28°15 | 15°19 | 22°14 | 8°39 | 19°27 | 2°16 | 14°12 | 4°29 | 22°11 | 3°24 | 4°19 | 25°44 | 17°12 | W18 |
| T 19 | 23 53 1 | 26°21'19 | 11 ♀ 3 | 15° 7 | 23°26 | 9°17 | 19°37 | 2°23 | 14°11 | 4°28 | 22°12 | 3°13 | 4°16 | 25°51 | 17°10 | T 19 |
| F 20 | 23 56 57 | 27°20'08 | 24° 2 | 14°47 | 24°39 | 9°55 | 19°48 | 2°30 | 14° 9 | 4°26 | 22°13 | 3° 5 | 4°13 | 25°57 | 17° 9 | F 20 |
| S 21 | 0 0 54 | 28°18'59 | 7 M 12 | 14°21 | 25°51 | 10°33 | 19°58 | 2°38 | 14° 8 | 4°25 | 22°13 | 3° 0 | 4°10 | 26° 4 | 17° 7 | S 21 |
| S 22 | 0 4 50 | 29°17'52 | 20°34 | 13°46 | 27° 4 | 11°11 | 20° 9 | 2°45 | 14° 6 | 4°23 | 22°14 | 2°57 | 4° 7 | 26°11 | 17° 5 | S 22 |
| M23 | 0 8 47 | 0 ≏ 16'47 | 4 ₹ 6 | 13° 5 | 28°16 | 11°50 | 20°19 | 2°53 | 14° 5 | 4°22 | 22°15 | 2°D56 | 4° 3 | 26°17 | 17° 3 | M23 |
| T 24 | 0 12 44 | 1°15'43 | 17°50 | 12°17 | 29°29 | 12°28 | 20°30 | 3° 0 | 14° 3 | 4°20 | 22°16 | 2°57 | 4° 0 | 26°24 | 17° 1 | T 24 |
| W25 | 0 16 40 | 2°14'41 | 1 る 45 | 11°22 | 0 m 42 | 13° 6 | 20°41 | 3° 8 | 14° 2 | 4°19 | 22°16 | 2°R57 | 3°57 | 26°31 | 17° 0 | W25 |
| T 26 | 0 20 37 | 3°13'41 | 15°53 | 10°22 | 1°54 | 13°44 | 20°52 | 3°15 | 14° 0 | 4°17 | 22°17 | 2°57 | 3°54 | 26°37 | 16°58 | T 26 |
| F 27 | 0 24 33 | 4°12'43 | 0≈12 | 9°17 | 3° 7 | 14°22 | 21° 3 | 3°22 | 13°58 | 4°16 | 22°18 | 2°54 | 3°51 | 26°44 | 16°55 | F 27 |
| S 28 | 0 28 30 | 5°11'46 | 14°39 | 8° 9 | 4°20 | 15° 0 | 21°14 | 3°30 | 13°56 | 4°15 | 22°18 | 2°49 | 3°48 | 26°51 | 16°53 | S 28 |
| S 29 | 0 32 26 | 6°10'51 | 29°10 | 7° 0 | 5°33 | 15°38 | 21°25 | 3°37 | 13°55 | 4°13 | 22°19 | 2°42 | 3°44 | 26°58 | 16°51 | S 29 |
| M30 | 0 36 23 | 7 요 9'58 | 13 ∺ 39 | 5 ≙ 51 | 6 M)46 | 16 M)16 | 21 M .36 | 3 ≏ 45 | 13 8 53 | 4) € 12 | 22520 | 2Д33 | 3 Ⅱ 41 | 2795 4 | 16 8 49 | M30 |

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Greg. Calendar

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| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)Å(| , | В | ¥ | ಭ | Ç | ę, | Day |
|--------------|--------------------|----------------------|------------------------|----------------|----------------|-------------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------------|--------------|
| T 1 | 0 40 20 | 8₾ 9'07 | 28 米 0 | 4°R44 | 7 m 59 | 16 M 54 | 21 M .47 | 3 ₾ 52 | 13°R51 | 4°R11 | 22920 | 2°R24 | 3 Ⅲ 38 | 279911 | 16°R47 | T 1 |
| W 2 | 0 44 16 | 9° 8'17 | 12 ° 7 | 3 ≙ 41 | 9°12 | 17°33 | 21°59 | 3°59 | 13849 | 4 ∺ 9 | 22°21 | 2 Ⅱ 16 | 3°35 | 27°18 | 16844 | W 2 |
| T 3 | 0 48 13 | 10° 7'30 | 25°55 | 2°44 | 10°26 | 18°11 | 22°10 | 4° 7 | 13°47 | 4° 8 | 22°21 | 2° 9 | 3°32 | 27°24 | 16°42 | T 3 |
| F 4 | 0 52 9 | 11° 6'45 | 9820 | 1°55 | 11°39 | 18°49 | 22°22 | 4°14 | 13°45 | 4° 7 4° 6 | 22°22 | 2° 5 | 3°28 | 27°31 | 16°40 | F 4 |
| S 5 | 0 56 6 | 12° 6'03 | 22°23 | 1°14 | 12°52 | 19°27 | 22°33 | 4°21 | 13°43 | | 22°22 | 2° 2 | 3°25 | 27°38 | 16°37 | S 5 |
| S 6 | 1 0 2 | 13° 5'22 | 5 I I 3 | 0°43 | 14° 6 | 20° 5 | 22°45 | 4°29 | 13°41 | 4° 5 | 22°23 | 2°D 2 | 3°22 | 27°44 | 16°35 | S 6 |
| M 7 | 1 3 59 | 14° 4'44 | 17°24 | 0°23 | 15°19 | 20°43 | 22°56 | 4°36 | 13°39 | 4° 3 | 22°23 | 2° 3 | 3°19 | 27°51 | 16°32 | M 7 |
| T 8 | 1 7 55 | 15° 4'08 | 29°31 | 0°D14 | 16°33 | 21°21 | 23° 8 | 4°44 | 13°37 | 4° 2 | 22°23 | 2° 4 | 3°16 | 27°58 | 16°30 | T 8 |
| W 9 | 1 11 52 | 16° 3'35 | 119527 | 0°15 | 17°47 19° 0 | 21°59 | 23°20 | 4°51 | 13°35 | 4° 1 4° 0 | 22°24 | 2°R 5 | 3°13 | 28° 5 | 16°27 | W 9 |
| T 10 F 11 | 1 15 48 1 19 45 | 17° 3'04 18° 2'35 | 23°18 5 Ω 10 | 0°27 0°50 | 20°14 | 22°38 23°16 | 23°32 23°44 | 4°58 5° 5 | 13°33 13°31 | 3°59 | 22°24 22°24 | 2° 5 2° 3 | 3° 9 3° 6 | 28°11 28°18 | 16°25 16°22 | T 10 F 11 |
| S 12 | 1 23 42 | 16 233 19° 2'08 | 17° 6 | 1°22 | 20°14 21°28 | 23°54 | 23°56 | 5°13 | 13°28 | 3°58 | 22°25 | 1°59 | 3° 3 | 28°25 | 16°19 | S 12 |
| | | | | | | | | | | | | | | | | |
| S 13 | 1 27 38 | 20° 1'44 | 29°12 | 2° 4 | 22°42 | 24°32 | 24° 8 | 5°20 | 13°26 | 3°57 | 22°25 | 1°54 | 3° 0 | 28°31 | 16°16 | S 13 |
| M14 T 15 | 1 31 35 1 35 31 | 21° 1'22 22° 1'02 | 11 Mp 30 24° 3 | 2°54 3°51 | 23°56 25°10 | 25°10 25°48 | 24°20 24°32 | 5°27 5°34 | 13°24 13°22 | 3°56 3°55 | 22°25 22°26 | 1°47 1°40 | 2°57 2°54 | 28°38 28°45 | 16°14 16°11 | M14 T 15 |
| W16 | 1 33 31 | 23° 0'44 | 24° 3 6 Ω 52 | 4°56 | 26°24 | 25°48 26°26 | 24°32 24°45 | 5°42 | 13°22 13°19 | 3°54 | 22°26 | 1°40 1°33 | 2°50 | 28°51 | 16° 11 | W16 |
| T 17 | 1 43 24 | 24° 0'28 | 19°58 | 6° 6 | 20°24 27°38 | 20° 20° 20° 27° 5 | 24°57 | 5°49 | 13°17 | 3°53 | 22°26 | 1°27 | 2°47 | 28°58 | 16° 5 | T 17 |
| F 18 | 1 47 21 | 25° 0'14 | 3M20 | 7°21 | 28°52 | 27°43 | 25° 9 | 5°56 | 13°17 | 3°52 | 22°26 | 1°22 | 2°44 | 29° 5 | 16° 2 | F 18 |
| S 19 | 1 51 17 | 26° 0'03 | 16°54 | 8°40 | 0 <u>₽</u> 6 | 28°21 | 25°22 | 6° 3 | 13°12 | 3°51 | 22°26 | 1°20 | 2°41 | 29°11 | 15°59 | S 19 |
| S 20 | 1 55 14 | 26°59'53 | 0 ₹ 40 | 10° 4 | 1°21 | 28°59 | 25°34 | 6°10 | 13°10 | 3°50 | 22°26 | 1°D19 | 2°38 | 29°18 | 15°56 | S 20 |
| M21 | 1 55 14 | 20 39 33 27°59'45 | 14°35 | 10°4 11°30 | 2°35 | 28 39 29°37 | 25°47 | 6°17 | 13° 8 | 3°50 | 22°26 | 1°19 | 2°34 | 29°18 29°25 | 15°53 | M21 |
| T 22 | 2 3 7 | 28°59'39 | 28°37 | 12°59 | 3°49 | 0 ₽ 15 | 26° 0 | 6°24 | 13° 5 | 3°49 | 22°26 | 1°21 | 2°31 | 29°32 | 15°50 | T 22 |
| W23 | 2 7 4 | 29°59'34 | 12 ~3 7 | 14°31 | 5° 4 | 0°54 | 26°12 | 6°31 | 13° 3 | 3°48 | 22°R26 | 1°22 | 2°28 | 29°38 | 15°47 | W23 |
| T 24 | 2 11 0 | 0M 59'32 | 26°52 | 16° 4 | 6°18 | 1°32 | 26°25 | 6°38 | 13° 1 | 3°47 | 22°26 | 1°R23 | 2°25 | 29°45 | 15°44 | T 24 |
| F 25 | 2 14 57 | 1°59'30 | 11≈ 3 | 17°38 | 7°32 | 2°10 | 26°38 | 6°45 | 12°58 | 3°47 | 22°26 | 1°23 | 2°22 | 29°52 | 15°41 | F 25 |
| S 26 | 2 18 53 | 2°59'31 | 25°13 | 19°14 | 8°47 | 2°48 | 26°50 | 6°52 | 12°56 | 3°46 | 22°26 | 1°21 | 2°19 | 29°58 | 15°38 | S 26 |
| S 27 | 2 22 50 | 3°59'33 | 9 ∺ 20 | 20°50 | 10° 1 | 3°26 | 27° 3 | 6°59 | 12°53 | 3°45 | 22°26 | 1°18 | 2°15 | 0Ω 5 | 15°35 | S 27 |
| M28 | 2 26 46 | 4°59'36 | 23°21 | 22°27 | 11°16 | 4° 4 | 27°16 | 7° 6 | 12°51 | 3°45 | 22°26 | 1°15 | 2°12 | 0°12 | 15°32 | M28 |
| T 29 | 2 30 43 | 5°59'41 | 7 Υ 14 | 24° 5 | 12°31 | 4°43 | 27°29 | 7°13 | 12°48 | 3°44 | 22°26 | 1°11 | 2° 9 | 0°19 | 15°29 | T 29 |
| W30 | 2 34 40 | 6°59'48 | 20°54 | 25°43 | 13°45 | 5°21 | 27°42 | 7°20 | 12°46 | 3°44 | 22°26 | 1° 7 | 2° 6 | 0°25 | 15°26 | W30 |
| T 31 | 2 38 36 | 7 M 59'56 | 4 8 19 | 27 ≏ 21 | 15 ♀ 0 | 5 Ω 59 | 27 M 55 | 7 ≏ 26 | 12843 | 3 ∺ 43 | 22926 | 1 I I 4 | 2 II 3 | 0 Ω 32 | 15 8 23 | T 31 |

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NOVEMBER 1686 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)∤(| ¥ | В | N. | v | ţ | Q K | Day |
|--------------|--------------------|----------------------|------------------------|------------------------|------------------------|----------------|----------------|---------------------------------|----------------|-------------------|----------------|---------------|---------------|--------------------|-------------------------|--------------|
| F 1 | 2 42 33 | 9 11 6 0'07 | 17 8 28 | 28 ≏ 59 | 16 ₽ 15 | 6 ₽ 37 | 28M 8 | 7 ≏ 33 | 12°R41 | 3°R43 | 22°R25 | 1°R 2 | 1耳59 | 0 Ω 39 | 15°R19 | F 1 |
| S 2 | 2 46 29 | 10° 0'19 | 0 耳 19 | 0 M .38 | 17°29 | 7°15 | 28°21 | 7°40 | 12 8 38 | 3) €42 | 22525 | 1°D 2 | 1°56 | 0°45 | 15 8 16 | S 2 |
| S 3 | 2 50 26 | 11° 0'33 | 12°53 | 2°16 | 18°44 | 7°54 | 28°34 | 7°46 | 12°36 | 3°42 | 22°25 | 1 II 2 | 1°53 | 0°52 | 15°13 | S 3 |
| M 4 | 2 54 22 | 12° 0'49 | 25°12 | 3°54 | 19°59 | 8°32 | 28°47 | 7°53 | 12°33 | 3°41 | 22°25 | 1° 3 | 1°50 | 0°59 | 15°10 | M 4 |
| T 5 | 2 58 19 | 13° 1'08 14° 1'28 | 7 © 18 19°15 | 5°32 7° 9 | 21°14 | 9°10 9°48 | 29° 0 29°13 | 8° 0 8° 6 | 12°31 | 3°41 3°41 | 22°24 | 1° 5 1° 7 | 1°47 | 1° 5 1°12 | 15° 7 15° 3 | T 5 W 6 |
| W 6 T 7 | 3 2 15 3 6 12 | 14° 1'28 15° 1'50 | 19-13 | 8°47 | 22°29 23°43 | 10°26 | 29°13 29°26 | 8°12 | 12°28 12°26 | 3°41 | 22°24 22°24 | 1° 8 | 1°44 1°40 | 1°12 1°19 | 15° 3 15° 0 | W 6 |
| F 8 | 3 10 9 | 16° 2'13 | 12°59 | 10°24 | 24°58 | 10°20 | 29°40 | 8°19 | 12°23 | 3°40 | 22°23 | 1°R 8 | 1°37 | 1°26 | 14°57 | F 8 |
| S 9 | 3 14 5 | 17° 2'39 | 24°55 | 12° 1 | 26°13 | 11°43 | 29°53 | 8°25 | 12°21 | 3°40 | 22°23 | 1° 8 | 1°34 | 1°32 | 14°54 | S 9 |
| S 10 | 3 18 2 | 18° 3'07 | 7 Mg 0 | 13°38 | 27°28 | 12°21 | 0 ,₹ 6 | 8°32 | 12°18 | 3°40 | 22°22 | 1° 7 | 1°31 | 1°39 | 14°51 | S 10 |
| M11 | 3 21 58 | 19° 3'36 | 19°19 | 15°14 | 28°43 | 12°59 | 0°19 | 8°38 | 12°16 | 3°40 | 22°22 | 1° 6 | 1°28 | 1°46 | 14°47 | M11 |
| T 12 | 3 25 55 | 20° 4'08 | 1 ≏ 56 | 16°50 | 29°58 | 13°37 | 0°33 | 8°44 | 12°14 | 3°40 | 22°21 | 1° 5 | 1°25 | 1°52 | 14°44 | T 12 |
| W13 T 14 | 3 29 51 | 21° 4'41 22° 5'15 | 14°52 28° 9 | 18°26 20° 2 | 1 M .13 2°29 | 14°16 | 0°46 | 8°50 | 12°11 12° 9 | 3°40 3°40 | 22°21 | 1° 3 1° 2 | 1°21 1°18 | 1°59 2° 6 | 14°41 14°38 | W13 T 14 |
| F 15 | 3 33 48 3 37 44 | 22° 5'15 23° 5'52 | 11 M .48 | 20° 2 21°37 | 3°44 | 14°54 15°32 | 0°59 1°13 | 8°56 9° 2 | 12° 9 | 3°D40 | 22°20 22°20 | 1° 2 | 1°18 | 2°12 | 14°38 | F 15 |
| S 16 | 3 41 41 | 24° 6'30 | 25°46 | 23°12 | 4°59 | 16°10 | 1°26 | 9° 8 | 12° 4 | 3°40 | 22°19 | 1°D 1 | 1°12 | 2°19 | 14°32 | S 16 |
| S 17 | 3 45 38 | 25° 7'10 | 9 ∡ 159 | 24°47 | 6°14 | 16°48 | 1°40 | 9°14 | 12° 1 | 3°40 | 22°19 | 1° 1 | 1° 9 | 2°26 | 14°28 | S 17 |
| M18 | 3 49 34 | 26° 7'51 | 2 <u>4</u> °23 | 26°22 | 7°29 | 17°27 | 1°53 | 9°20 | 11°59 | 3°40 | 22°18 | 1° 1 | 1° 5 | 2°33 | 14°25 | M18 |
| T 19 | 3 53 31 | 27° 8'33 | 8 궁 52 | 27°57 | 8°44 | 18° 5 | 2° 6 | 9°26 | 11°57 | 3°40 | 22°17 | 1° 1 | 1° 2 | 2°39 | 14°22 | T 19 |
| W20 T 21 | 3 57 27 4 1 24 | 28° 9'17 29°10'01 | 23°22 7 ≈ 47 | 29°31 1 ×7 6 | 10° 0 11°15 | 18°43 19°21 | 2°20 2°33 | 9°32 9°37 | 11°54 11°52 | 3°40 3°40 | 22°17 22°16 | 1° 2 1° 2 | 0°59 0°56 | 2°46 2°53 | 14°19 14°16 | W20 T 21 |
| F 22 | 4 1 24 4 5 20 | 0 × 10'47 | 22° 3 | 2°40 | 12°30 | 20° 0 | 2°47 | 9°43 | 11°49 | 3°41 | 22°15 | 1° 2 | 0°53 | 2°59 | 14°13 | F 22 |
| S 23 | 4 9 17 | 1°11'33 | 6 ¥ 9 | 4°14 | 13°45 | 20°38 | 3° 0 | 9°48 | 11°47 | 3°41 | 22°15 | 1° 2 | 0°50 | 3° 6 | 14°10 | S 23 |
| S 24 | 4 13 13 | 2°12'20 | 20° 2 | 5°48 | 15° 1 | 21°16 | 3°14 | 9°54 | 11°45 | 3°41 | 22°14 | 1° 2 | 0°46 | 3°13 | 14° 7 | S 24 |
| M25 | 4 17 10 | 3°13'09 | 3 ℃ 42 | 7°22 | 16°16 | 21°54 | 3°27 | 9°59 | 11°43 | 3°41 | 22°13 | 1° 2 | 0°43 | 3°20 | 14° 4 | M25 |
| T 26 | 4 21 7 | 4°13'58 | 17° 8 | 8°56 | 17°31 | 22°33 | 3°41 | 10° 5 | 11°40 | 3°42 | 22°12 | 1° 2 | 0°40 | 3°26 | 14° 1 | T 26 |
| W27 | 4 25 3 | 5°14'48 | 0822 | 10°29 | 18°46 | 23°11 | 3°54 | 10°10 | 11°38 | 3°42 | 22°11 | 1° 3 | 0°37 | 3°33 | 13°58 | W27 |
| T 28 F 29 | 4 29 0 4 32 56 | 6°15'39 7°16'31 | 13°21 26° 8 | 12° 3 13°37 | 20° 2 21°17 | 23°49 24°27 | 4° 7 4°21 | 10°15 10°20 | 11°36 11°34 | 3°43 3°43 | 22°11 22°10 | 1° 3 1°R 4 | 0°34 0°31 | 3°40 3°46 | 13°55 13°52 | T 28 F 29 |
| S 30 | 4 36 53 | 8 × 17'25 | 8 Ⅱ 42 | 15 3 7 | 22 M 32 | 25 ♀ 5 | 4×21 4×734 | 10 <u>2</u> 0 10 <u>Ω</u> 25 | 11832 | 3 ¥ 44 | 229 9 | 1 II 4 | 0 Ⅱ 27 | 3 \Omega 53 | 13 32 13 8 49 | S 30 |

Delta T = 19.97 sec

Greg. Calendar

| DECEMBER 1686 GC | 00:00 UT |
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| NECEMBER 1000 GC | UU:UU UI |

| Day | Sid.t | 0 | D | Ψ | Q | ঠ | 4 | ħ | ᡟ | 4 | Р | Ę | ಬ | Ç | o k | Day |
|------|---------|-------------------|----------------|-----------------|----------------|----------------|----------------|----------------|--------|----------------|--------|---------------|----------------|---------------|----------------|------|
| S 1 | 4 40 49 | 9 .7 18'19 | 21 II 5 | 16 ×7 44 | 23 M 48 | 25 ≏ 44 | 4 ₹ 48 | 10 ≏ 30 | 11°R29 | 3) (44 | 22°R 8 | 1°R 3 | 0 Д 24 | 4 Ω 0 | 13°R47 | S 1 |
| M 2 | 4 44 46 | 10°19'14 | 39916 | 18°18 | 25° 3 | 26°22 | 5° 1 | 10°35 | 11827 | 3°45 | 2295 7 | 1 II 2 | 0°21 | 4° 6 | 13 8 44 | M 2 |
| T 3 | 4 48 42 | 11°20'11 | 15°19 | 19°51 | 26°18 | 27° 0 | 5°15 | 10°40 | 11°25 | 3°45 | 22° 6 | 1° 1 | 0°18 | 4°13 | 13°41 | T 3 |
| W 4 | 4 52 39 | 12°21'09 | 27°15 | 21°25 | 27°34 | 27°38 | 5°28 | 10°45 | 11°23 | 3°46 | 22° 5 | 0°59 | 0°15 | 4°20 | 13°38 | W 4 |
| T 5 | 4 56 36 | 13°22'07 | 9Ω 6 | 22°58 | 28°49 | 28°17 | 5°42 | 10°49 | 11°21 | 3°47 | 22° 4 | 0°57 | 0°11 | 4°27 | 13°36 | T 5 |
| F 6 | 5 0 32 | 14°23'07 | 20°57 | 24°32 | 0 √ 5 | 28°55 | 5°55 | 10°54 | 11°19 | 3°47 | 22° 3 | 0°56 | 0° 8 | 4°33 | 13°33 | F 6 |
| S 7 | 5 4 29 | 15°24'08 | 2 Mp 52 | 26° 5 | 1°20 | 29°33 | 6° 8 | 10°58 | 11°17 | 3°48 | 22° 2 | 0°54 | 0° 5 | 4°40 | 13°30 | S 7 |
| S 8 | 5 8 25 | 16°25'10 | 14°55 | 27°39 | 2°35 | 0 M .11 | 6°22 | 11° 3 | 11°15 | 3°49 | 22° 1 | 0°D54 | 0° 2 | 4°47 | 13°28 | S 8 |
| M 9 | 5 12 22 | 17°26'13 | 27°10 | 29°12 | 3°51 | 0°50 | 6°35 | 11° 7 | 11°13 | 3°50 | 22° 0 | 0°54 | 29 8 59 | 4°53 | 13°25 | M 9 |
| T 10 | 5 16 18 | 18°27'16 | 9 ≏ 42 | 0 궁 46 | 5° 6 | 1°28 | 6°48 | 11°12 | 11°12 | 3°51 | 21°59 | 0°55 | 29°56 | 5° 0 | 13°23 | T 10 |
| W11 | 5 20 15 | 19°28'21 | 22°36 | 2°19 | 6°22 | 2° 6 | 7° 2 | 11°16 | 11°10 | 3°52 | 21°58 | 0°57 | 29°52 | 5° 7 | 13°20 | W11 |
| T 12 | 5 24 11 | 20°29'27 | 5 M .54 | 3°52 | 7°37 | 2°44 | 7°15 | 11°20 | 11° 8 | 3°52 | 21°57 | 0°58 | 29°49 | 5°14 | 13°18 | T 12 |
| F 13 | 5 28 8 | 21°30'34 | 19°38 | 5°24 | 8°53 | 3°22 | 7°28 | 11°24 | 11° 6 | 3°53 | 21°56 | 0°59 | 29°46 | 5°20 | 13°16 | F 13 |
| S 14 | 5 32 5 | 22°31'41 | 3 . ₹47 | 6°57 | 10° 8 | 4° 1 | 7°42 | 11°28 | 11° 5 | 3°54 | 21°55 | 1°R 0 | 29°43 | 5°27 | 13°13 | S 14 |
| S 15 | 5 36 1 | 23°32'50 | 18°19 | 8°29 | 11°23 | 4°39 | 7°55 | 11°32 | 11° 3 | 3°55 | 21°54 | 0°59 | 29°40 | 5°34 | 13°11 | S 15 |
| M16 | 5 39 58 | 24°33'58 | 3 る 8 | 10° 0 | 12°39 | 5°17 | 8° 8 | 11°35 | 11° 1 | 3°56 | 21°53 | 0°57 | 29°37 | 5°40 | 13° 9 | M16 |
| T 17 | 5 43 54 | 25°35'08 | 18° 5 | 11°31 | 13°54 | 5°55 | 8°21 | 11°39 | 11° 0 | 3°58 | 21°52 | 0°54 | 29°33 | 5°47 | 13° 7 | T 17 |
| W18 | 5 47 51 | 26°36'17 | 3≈ 3 | 13° 1 | 15°10 | 6°34 | 8°35 | 11°43 | 10°58 | 3°59 | 21°50 | 0°50 | 29°30 | 5°54 | 13° 5 | W18 |
| T 19 | 5 51 47 | 27°37'27 | 17°53 | 14°29 | 16°25 | 7°12 | 8°48 | 11°46 | 10°57 | 4° 0 | 21°49 | 0°46 | 29°27 | 6° 1 | 13° 3 | T 19 |
| F 20 | 5 55 44 | 28°38'37 | 2) 27 | 15°57 | 17°41 | 7°50 | 9° 1 | 11°49 | 10°55 | 4° 1 | 21°48 | 0°43 | 29°24 | 6° 7 | 13° 1 | F 20 |
| S 21 | 5 59 41 | 29°39'46 | 16°42 | 17°23 | 18°56 | 8°28 | 9°14 | 11°53 | 10°54 | 4° 2 | 21°47 | 0°41 | 29°21 | 6°14 | 12°59 | S 21 |
| S 22 | 6 3 37 | 0 궁 40'56 | 0 Ƴ 35 | 18°48 | 20°12 | 9° 6 | 9°27 | 11°56 | 10°52 | 4° 3 | 21°46 | 0°D40 | 29°17 | 6°21 | 12°57 | S 22 |
| M23 | 6 7 34 | 1°42'06 | 14° 7 | 20°10 | 21°27 | 9°45 | 9°40 | 11°59 | 10°51 | 4° 5 | 21°44 | 0°41 | 29°14 | 6°27 | 12°55 | M23 |
| T 24 | 6 11 30 | 2°43'15 | 27°19 | 21°30 | 22°43 | 10°23 | 9°53 | 12° 2 | 10°50 | 4° 6 | 21°43 | 0°42 | 29°11 | 6°34 | 12°53 | T 24 |
| W25 | 6 15 27 | 3°44'25 | 10 8 13 | 22°47 | 23°58 | 11° 1 | 10° 6 | 12° 5 | 10°49 | 4° 7 | 21°42 | 0°44 | 29° 8 | 6°41 | 12°51 | W25 |
| T 26 | 6 19 23 | 4°45'34 | 22°53 | 24° 0 | 25°14 | 11°39 | 10°19 | 12° 8 | 10°47 | 4° 9 | 21°41 | 0°45 | 29° 5 | 6°48 | 12°50 | T 26 |
| F 27 | 6 23 20 | 5°46'44 | 5 Ⅱ 20 | 25°10 | 26°29 | 12°17 | 10°32 | 12°10 | 10°46 | 4°10 | 21°39 | 0°R46 | 29° 2 | 6°54 | 12°48 | F 27 |
| S 28 | 6 27 16 | 6°47'53 | 17°37 | 26°14 | 27°45 | 12°56 | 10°44 | 12°13 | 10°45 | 4°11 | 21°38 | 0°44 | 28°58 | 7° 1 | 12°46 | S 28 |
| S 29 | 6 31 13 | 7°49'02 | 29°46 | 27°13 | 29° 0 | 13°34 | 10°57 | 12°16 | 10°44 | 4°13 | 21°37 | 0°41 | 28°55 | 7° 8 | 12°45 | S 29 |
| M30 | 6 35 10 | 8°50'12 | 119548 | 28° 6 | 0 궁 15 | 14°12 | 11°10 | 12°18 | 10°43 | 4°14 | 21°36 | 0°35 | 28°52 | 7°14 | 12°44 | M30 |
| T 31 | 6 39 6 | 9 ප් 51'21 | 239545 | 28 궁 52 | 1 궁 31 | 14 M 50 | 11 × 23 | 12 ≏ 20 | 10842 | 4) €16 | 21934 | 0Д28 | 28 8 49 | 7 Ω 21 | 12842 | T 31 |

Delta T = 19.93 sec

JANUARY 1687 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)f(| ¥ | В | ß | v | Ç | ę, | Day |
|------|---------|-------------------|------------------|----------------|----------------|----------------|-----------------|----------------|--------|-----------------|--------|----------------|-------|----------------|----------------|------|
| W 1 | 6 43 3 | 10 ට 52'30 | 5 Ω 39 | 29 궁 30 | 2 ප් 46 | 15 M 28 | 11 ∡ ³35 | 12 ≏ 22 | 10°R41 | 4) (17 | 21°R33 | 0°R20 | 28846 | 7 Ω 28 | 12°R41 | W 1 |
| T 2 | 6 46 59 | 11°53'39 | 17°30 | 29°58 | 4° 2 | 16° 6 | 11°48 | 12°25 | 10840 | 4°19 | 219532 | 0耳12 | 28°43 | 7°35 | 12840 | T 2 |
| F 3 | 6 50 56 | 12°54'48 | 29°22 | 0≈17 | 5°17 | 16°44 | 12° 0 | 12°27 | 10°40 | 4°20 | 21°31 | 0° 4 | 28°39 | 7°41 | 12°38 | F 3 |
| S 4 | 6 54 52 | 13°55'57 | 11 M) 17 | 0°R26 | 6°33 | 17°23 | 12°13 | 12°28 | 10°39 | 4°22 | 21°29 | 29 8 58 | 28°36 | 7°48 | 12°37 | S 4 |
| S 5 | 6 58 49 | 14°57'06 | 23°18 | 0°23 | 7°48 | 18° 1 | 12°25 | 12°30 | 10°38 | 4°24 | 21°28 | 29°53 | 28°33 | 7°55 | 12°36 | S 5 |
| M 6 | 7 2 45 | 15°58'15 | 5 ≙ 30 | <u>0°</u> 8 | 9° 4 | 18°39 | 12°38 | 12°32 | 10°37 | 4°25 | 21°27 | 29°51 | 28°30 | 8° 1 | 12°35 | M 6 |
| T 7 | 7 6 42 | 16°59'24 | 17°56 | 29 궁 42 | 10°19 | 19°17 | 12°50 | 12°33 | 10°37 | 4°27 | 21°25 | 29°D50 | 28°27 | 8° 8 | 12°34 | T 7 |
| W 8 | 7 10 39 | 18° 0'32 | 0 M .42 | 29° 4 | 11°35 | 19°55 | 13° 2 | 12°35 | 10°36 | 4°29 | 21°24 | 29°51 | 28°23 | 8°15 | 12°33 | W 8 |
| T 9 | 7 14 35 | 19° 1'41 | 13°52 | 28°15 | 12°50 | 20°33 | 13°14 | 12°36 | 10°36 | 4°30 | 21°23 | 29°52 | 28°20 | 8°22 | 12°33 | T 9 |
| F 10 | 7 18 32 | 20° 2'50 | 27°29 | 27°16 | 14° 5 | 21°11 | 13°27 | 12°38 | 10°35 | 4°32 | 21°21 | 29°R53 | 28°17 | 8°28 | 12°32 | F 10 |
| S 11 | 7 22 28 | 21° 3'58 | 11 × 35 | 26°10 | 15°21 | 21°49 | 13°39 | 12°39 | 10°35 | 4°34 | 21°20 | 29°52 | 28°14 | 8°35 | 12°31 | S 11 |
| S 12 | 7 26 25 | 22° 5'06 | 26° 9 | 24°57 | 16°36 | 22°28 | 13°51 | 12°40 | 10°35 | 4°36 | 21°19 | 29°49 | 28°11 | 8°42 | 12°31 | S 12 |
| M13 | 7 30 21 | 23° 6'14 | 11 궁 6 | 23°40 | 17°52 | 23° 6 | 14° 3 | 12°41 | 10°34 | 4°37 | 21°17 | 29°44 | 28° 8 | 8°48 | 12°30 | M13 |
| T 14 | 7 34 18 | 24° 7'22 | 26°19 | 22°22 | 19° 7 | 23°44 | 14°14 | 12°42 | 10°34 | 4°39 | 21°16 | 29°37 | 28° 4 | 8°55 | 12°30 | T 14 |
| W15 | 7 38 15 | 25° 8'28 | 11 ≈ 38 | 21° 5 | 20°23 | 24°22 | 14°26 | 12°42 | 10°34 | 4°41 | 21°15 | 29°28 | 28° 1 | 9° 2 | 12°29 | W15 |
| T 16 | 7 42 11 | 26° 9'34 | 26°50 | 19°51 | 21°38 | 25° 0 | 14°38 | 12°43 | 10°34 | 4°43 | 21°13 | 29°19 | 27°58 | 9° 9 | 12°29 | T 16 |
| F 17 | 7 46 8 | 27°10'39 | 11) (45 | 18°42 | 22°53 | 25°38 | 14°50 | 12°43 | 10°34 | 4°45 | 21°12 | 29°11 | 27°55 | 9°15 | 12°29 | F 17 |
| S 18 | 7 50 4 | 28°11'43 | 26°17 | 17°40 | 24° 9 | 26°16 | 15° 1 | 12°44 | 10°D34 | 4°47 | 21°11 | 29° 5 | 27°52 | 9°22 | 12°28 | S 18 |
| S 19 | 7 54 1 | 29°12'45 | 10 Y 22 | 16°45 | 25°24 | 26°54 | 15°13 | 12°44 | 10°34 | 4°49 | 21°10 | 29° 1 | 27°49 | 9°29 | 12°28 | S 19 |
| M20 | 7 57 57 | 0≈13'47 | 23°58 | 15°59 | 26°40 | 27°32 | 15°24 | 12°44 | 10°34 | 4°51 | 21° 8 | 28°59 | 27°45 | 9°35 | 12°28 | M20 |
| T 21 | 8 1 54 | 1°14'48 | 7 8 8 | 15°22 | 27°55 | 28°10 | 15°36 | 12°R44 | 10°34 | 4°52 | 21° 7 | 28°D59 | 27°42 | 9°42 | 12°D28 | T 21 |
| W22 | 8 5 50 | 2°15'47 | 19°56 | 14°55 | 29°10 | 28°48 | 15°47 | 12°44 | 10°34 | 4°54 | 21° 6 | 29° 0 | 27°39 | 9°49 | 12°28 | W22 |
| T 23 | 8 9 47 | 3°16'46 | 2 Ⅱ 25 | 14°36 | 0≈26 | 29°26 | 15°58 | 12°44 | 10°34 | 4°56 | 21° 4 | 29°R 0 | 27°36 | 9°56 | 12°28 | T 23 |
| F 24 | 8 13 44 | 4°17'43 | 14°41 | 14°25 | 1°41 | 0 才 3 | 16° 9 | 12°44 | 10°34 | 4°58 | 21° 3 | 28°58 | 27°33 | 10° 2 | 12°28 | F 24 |
| S 25 | 8 17 40 | 5°18'39 | 26°46 | 14°D23 | 2°56 | 0°41 | 16°20 | 12°44 | 10°35 | 5° 1 | 21° 2 | 28°55 | 27°29 | 10° 9 | 12°29 | S 25 |
| S 26 | 8 21 37 | 6°19'34 | 89945 | 14°29 | 4°12 | 1°19 | 16°31 | 12°43 | 10°35 | 5° 3 | 21° 1 | 28°48 | 27°26 | 10°16 | 12°29 | S 26 |
| M27 | 8 25 33 | 7°20'27 | 20°40 | 14°41 | 5°27 | 1°57 | 16°42 | 12°43 | 10°36 | 5° 5 | 20°59 | 28°39 | 27°23 | 10°22 | 12°29 | M27 |
| T 28 | 8 29 30 | 8°21'20 | 2Ω 32 | 15° 1 | 6°42 | 2°35 | 16°53 | 12°42 | 10°36 | 5° 7 | 20°58 | 28°27 | 27°20 | 10°29 | 12°30 | T 28 |
| W29 | 8 33 26 | 9°22'11 | 14°24 | 15°26 | 7°58 | 3°13 | 17° 3 | 12°41 | 10°37 | 5° 9 | 20°57 | 28°13 | 27°17 | 10°36 | 12°30 | W29 |
| T 30 | 8 37 23 | 10°23'01 | 26°17 | 15°57 | 9°13 | 3°51 | 17°14 | 12°40 | 10°37 | 5°11 | 20°56 | 27°59 | 27°14 | 10°43 | 12°31 | T 30 |
| F 31 | 8 41 19 | 11≈23′50 | 8 m) 13 | 16 ට 33 | 10≈28 | 4 ₹ 29 | 17 × 724 | 12 ≏ 39 | 10838 | 5 ∺ 13 | 20954 | 27846 | 27810 | 10 Ω 49 | 12 8 32 | F 31 |

Delta T = 19.88 sec

Greg. Calendar

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| 卉 | Р | R | Ω | Ç | ķ | Day |
|------|----------|-------------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-------|---------------|--------|----------------|----------------|----------------|----------------|------|
| S 1 | 8 45 16 | 12≈24'38 | 20 m 12 | 17 ਰ 14 | 11≈44 | 5 ₹ 6 | 17 ∡ ³35 | 12°R38 | 10839 | 5 ₩ 15 | 20°R53 | 27°R34 | 27 8 7 | 10 Ω 56 | 12832 | S 1 |
| S 2 | 8 49 13 | 13°25'25 | 2 ₽ 17 | 17°59 | 12°59 | 5°44 | 17°45 | 12 ≏ 37 | 10°39 | 5°17 | 20952 | 27 8 25 | 27° 4 | 11° 3 | 12°33 | S 2 |
| M 3 | 8 53 9 | 14°26'11 | 14°30 | 18°47 | 14°14 | 6°22 | 17°55 | 12°36 | 10°40 | 5°19 | 20°51 | 27°18 | 27° 1 | 11°10 | 12°34 | M 3 |
| T 4 | 8 57 6 | 15°26'56 | 26°56 | 19°40 | 15°29 | 7° 0 | 18° 5 | 12°34 | 10°41 | 5°22 | 20°50 | 27°15 | 26°58 | 11°16 | 12°35 | T 4 |
| W 5 | 9 1 2 | 16°27'39 | 9 M .38 | 20°35 | 16°45 | 7°37 | 18°15 | 12°33 | 10°42 | 5°24 | 20°48 | 27°14 | 26°55 | 11°23 | 12°36 | W 5 |
| T 6 | 9 4 59 | 17°28'22 | 22°40 | 21°34 | 18° 0 | 8°15 | 18°25 | 12°31 | 10°43 | 5°26 | 20°47 | 27°13 | 26°51 | 11°30 | 12°37 | T 6 |
| F 7 | 9 8 5 5 | 18°29'04 | 6 才 7 | 22°35 | 19°15 | 8°53 | 18°35 | 12°30 | 10°44 | 5°28 | 20°46 | 27°13 | 26°48 | 11°36 | 12°38 | F 7 |
| S 8 | 9 12 52 | 19°29'45 | 20° 1 | 23°39 | 20°30 | 9°30 | 18°45 | 12°28 | 10°45 | 5°30 | 20°45 | 27°12 | 26°45 | 11°43 | 12°39 | S 8 |
| S 9 | 9 16 48 | 20°30'24 | 4 る 23 | 24°45 | 21°45 | 10° 8 | 18°54 | 12°26 | 10°46 | 5°33 | 20°44 | 27° 8 | 26°42 | 11°50 | 12°40 | S 9 |
| M10 | 9 20 45 | 21°31'02 | 19°11 | 25°53 | 23° 1 | 10°46 | 19° 4 | 12°24 | 10°47 | 5°35 | 20°43 | 27° 1 | 26°39 | 11°57 | 12°42 | M10 |
| T 11 | 9 24 42 | 22°31'39 | 4≈19 | 27° 4 | 24°16 | 11°23 | 19°13 | 12°22 | 10°48 | 5°37 | 20°42 | 26°52 | 26°35 | 12° 3 | 12°43 | T 11 |
| W12 | 9 28 38 | 23°32'15 | 19°39 | 28°16 | 25°31 | 12° 1 | 19°22 | 12°20 | 10°50 | 5°39 | 20°41 | 26°41 | 26°32 | 12°10 | 12°44 | W12 |
| T 13 | 9 32 35 | 24°32'49 | 4) (57 | 29°30 | 26°46 | 12°39 | 19°31 | 12°17 | 10°51 | 5°41 | 20°39 | 26°29 | 26°29 | 12°17 | 12°46 | T 13 |
| F 14 | 9 36 31 | 25°33'21 | 20° 4 | 0≈46 | 28° 1 | 13°16 | 19°40 | 12°15 | 10°52 | 5°44 | 20°38 | 26°18 | 26°26 | 12°23 | 12°47 | F 14 |
| S 15 | 9 40 28 | 26°33'52 | 4 Ƴ 49 | 2° 3 | 29°16 | 13°54 | 19°49 | 12°12 | 10°54 | 5°46 | 20°37 | 26° 9 | 26°23 | 12°30 | 12°49 | S 15 |
| S 16 | 9 44 24 | 27°34'20 | 19° 6 | 3°22 | 0) €31 | 14°31 | 19°58 | 12°10 | 10°55 | 5°48 | 20°36 | 26° 3 | 26°20 | 12°37 | 12°51 | S 16 |
| M17 | 9 48 21 | 28°34'47 | 2 8 53 | 4°42 | 1°46 | 15° 8 | 20° 6 | 12° 7 | 10°57 | 5°50 | 20°35 | 25°59 | 26°16 | 12°44 | 12°52 | M17 |
| T 18 | 9 52 17 | 29°35'12 | 16°10 | 6° 3 | 3° 2 | 15°46 | 20°15 | 12° 4 | 10°58 | 5°53 | 20°34 | 25°58 | 26°13 | 12°50 | 12°54 | T 18 |
| W19 | 9 56 14 | 0) €35'35 | 29° 1 | 7°26 | 4°17 | 16°23 | 20°23 | 12° 2 | 11° 0 | 5°55 | 20°33 | 25°58 | 26°10 | 12°57 | 12°56 | W19 |
| T 20 | 10 0 11 | 1°35'56 | 11 II 30 | 8°50 | 5°32 | 17° 1 | 20°31 | 11°59 | 11° 2 | 5°57 | 20°32 | 25°58 | 26° 7 | 13° 4 | 12°58 | T 20 |
| F 21 | 10 4 7 | 2°36'15 | 23°43 | 10°15 | 6°47 | 17°38 | 20°39 | 11°56 | 11° 3 | 6° 0 | 20°32 | 25°56 | 26° 4 | 13°10 | 13° 0 | F 21 |
| S 22 | 10 8 4 | 3°36'32 | 59945 | 11°42 | 8° 2 | 18°15 | 20°47 | 11°53 | 11° 5 | 6° 2 | 20°31 | 25°53 | 26° 1 | 13°17 | 13° 2 | S 22 |
| S 23 | 10 12 0 | 4°36'48 | 17°39 | 13°10 | 9°17 | 18°52 | 20°55 | 11°50 | 11° 7 | 6° 4 | 20°30 | 25°46 | 25°57 | 13°24 | 13° 4 | S 23 |
| M24 | 10 15 57 | 5°37'01 | 29°30 | 14°38 | 10°32 | 19°30 | 21° 3 | 11°46 | 11° 9 | 6° 6 | 20°29 | 25°37 | 25°54 | 13°31 | 13° 6 | M24 |
| T 25 | 10 19 53 | 6°37'12 | 11 N 21 | 16° 8 | 11°47 | 20° 7 | 21°10 | 11°43 | 11°11 | 6° 9 | 20°28 | 25°25 | 25°51 | 13°37 | 13° 8 | T 25 |
| W26 | 10 23 50 | 7°37'21 | 23°14 | 17°39 | 13° 1 | 20°44 | 21°18 | 11°40 | 11°12 | 6°11 | 20°27 | 25°11 | 25°48 | 13°44 | 13°11 | W26 |
| T 27 | 10 27 46 | 8°37'28 | 5 m 11 | 19°12 | 14°16 | 21°21 | 21°25 | 11°36 | 11°14 | 6°13 | 20°26 | 24°57 | 25°45 | 13°51 | 13°13 | T 27 |
| F 28 | 10 31 43 | 9) 37'34 | 17 m 13 | 20≈45 | 15) (31 | 21 ~ 58 | 21 × 32 | 11 ≏ 33 | 11816 | 6 ∺ 16 | 20926 | 24 8 43 | 25 8 41 | 13 N 58 | 13 8 15 | F 28 |

Delta T = 19.84 sec

MARCH 1687 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| 并 | В | ß | v | Ç | ę, | Day |
|------|----------|-------------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|---------------|--------|--------|----------------|----------------|----------------|------|
| S 1 | 10 35 40 | 10 ∺ 37'37 | 29 m 20 | 22≈19 | 16) 46 | 22 × 35 | 21 × 39 | 11°R29 | 11818 | 6 ∺ 18 | 20°R25 | 24°R31 | 25 8 38 | 14 Ω 4 | 13 8 18 | S 1 |
| S 2 | 10 39 36 | 11°37'39 | 11 ≏ 35 | 23°55 | 18° 1 | 23°12 | 21°46 | 11 ≏ 25 | 11°21 | 6°20 | 209524 | 24821 | 25°35 | 14°11 | 13°20 | S 2 |
| M 3 | 10 43 33 | 12°37'39 | 23°59 | 25°32 | 19°16 | 23°49 | 21°53 | 11°22 | 11°23 | 6°22 | 20°23 | 24°15 | 25°32 | 14°18 | 13°23 | M 3 |
| T 4 | 10 47 29 | 13°37'37 | 6MJ33 | 27° 9 | 20°31 | 24°26 | 21°59 | 11°18 | 11°25 | 6°25 | 20°23 | 24°11 | 25°29 | 14°24 | 13°25 | T 4 |
| W 5 | 10 51 26 | 14°37'34 | 19°21 | 28°48 | 21°45 | 25° 3 | 22° 6 | 11°14 | 11°27 | 6°27 | 20°22 | 24°D10 | 25°26 | 14°31 | 13°28 | W 5 |
| T 6 | 10 55 22 | 15°37'29 | 2 ~ 25 | 0 ∺ 28 | 23° 0 | 25°40 | 22°12 | 11°10 | 11°29 | 6°29 | 20°21 | 24°10 | 25°22 | 14°38 | 13°31 | T 6 |
| F 7 | 10 59 19 | 16°37'22 | 15°47 | 2° 9 | 24°15 | 26°17 | 22°18 | 11° 6 | 11°32 | 6°31 | 20°20 | 24°R10 | 25°19 | 14°45 | 13°33 | F 7 |
| S 8 | 11 3 15 | 17°37'14 | 29°32 | 3°52 | 25°30 | 26°54 | 22°24 | 11° 2 | 11°34 | 6°34 | 20°20 | 24° 9 | 25°16 | 14°51 | 13°36 | S 8 |
| S 9 | 11 7 12 | 18°37'04 | 13 る 40 | 5°35 | 26°44 | 27°30 | 22°30 | 10°58 | 11°36 | 6°36 | 20°19 | 24° 7 | 25°13 | 14°58 | 13°39 | S 9 |
| M10 | 11 11 9 | 19°36'52 | 28°11 | 7°20 | 27°59 | 28° 7 | 22°35 | 10°54 | 11°39 | 6°38 | 20°19 | 24° 2 | 25°10 | 15° 5 | 13°42 | M10 |
| T 11 | 11 15 5 | 20°36'39 | 13 ≈ 0 | 9° 6 | 29°14 | 28°44 | 22°41 | 10°50 | 11°41 | 6°40 | 20°18 | 23°55 | 25° 7 | 15°11 | 13°45 | T 11 |
| W12 | 11 19 2 | 21°36'24 | 28° 2 | 10°53 | 0 Υ 28 | 29°20 | 22°46 | 10°45 | 11°44 | 6°43 | 20°18 | 23°46 | 25° 3 | 15°18 | 13°48 | W12 |
| T 13 | 11 22 58 | 22°36'07 | 13) 7 | 12°41 | 1°43 | 29°57 | 22°51 | 10°41 | 11°46 | 6°45 | 20°17 | 23°36 | 25° 0 | 15°25 | 13°51 | T 13 |
| F 14 | 11 26 55 | 23°35'48 | 28° 6 | 14°31 | 2°58 | 0 ට 33 | 22°56 | 10°37 | 11°49 | 6°47 | 20°17 | 23°27 | 24°57 | 15°32 | 13°54 | F 14 |
| S 15 | 11 30 51 | 24°35'26 | 12 Y 48 | 16°22 | 4°12 | 1°10 | 23° 1 | 10°32 | 11°51 | 6°49 | 20°16 | 23°19 | 24°54 | 15°38 | 13°57 | S 15 |
| S 16 | 11 34 48 | 25°35'03 | 27° 8 | 18°14 | 5°27 | 1°46 | 23° 6 | 10°28 | 11°54 | 6°51 | 20°16 | 23°14 | 24°51 | 15°45 | 14° 0 | S 16 |
| M17 | 11 38 44 | 26°34'38 | 118 0 | 20° 7 | 6°41 | 2°23 | 23°10 | 10°24 | 11°56 | 6°54 | 20°15 | 23°11 | 24°47 | 15°52 | 14° 3 | M17 |
| T 18 | 11 42 41 | 27°34'10 | 24°23 | 22° 1 | 7°56 | 2°59 | 23°15 | 10°19 | 11°59 | 6°56 | 20°15 | 23°D11 | 24°44 | 15°58 | 14° 6 | T 18 |
| W19 | 11 46 37 | 28°33'40 | 7 Ⅱ 21 | 23°57 | 9°10 | 3°35 | 23°19 | 10°15 | 12° 2 | 6°58 | 20°14 | 23°11 | 24°41 | 16° 5 | 14°10 | W19 |
| T 20 | 11 50 34 | 29°33'08 | 19°56 | 25°54 | 10°25 | 4°11 | 23°23 | 10°10 | 12° 5 | 7° 0 | 20°14 | 23°12 | 24°38 | 16°12 | 14°13 | T 20 |
| F 21 | 11 54 31 | 0 Ƴ 32'33 | 29512 | 27°52 | 11°39 | 4°47 | 23°26 | 10° 6 | 12° 7 | 7° 2 | 20°14 | 23°R13 | 24°35 | 16°19 | 14°16 | F 21 |
| S 22 | 11 58 27 | 1°31'57 | 14°15 | 29°51 | 12°54 | 5°23 | 23°30 | 10° 1 | 12°10 | 7° 4 | 20°13 | 23°12 | 24°32 | 16°25 | 14°20 | S 22 |
| S 23 | 12 2 24 | 2°31'17 | 26°10 | 1 Y 51 | 14° 8 | 5°59 | 23°33 | 9°56 | 12°13 | 7° 6 | 20°13 | 23° 9 | 24°28 | 16°32 | 14°23 | S 23 |
| M24 | 12 6 20 | 3°30'36 | 8 N 1 | 3°52 | 15°22 | 6°35 | 23°37 | 9°52 | 12°16 | 7°8 | 20°13 | 23° 4 | 24°25 | 16°39 | 14°27 | M24 |
| T 25 | 12 10 17 | 4°29'52 | 19°53 | 5°54 | 16°37 | 7°11 | 23°40 | 9°47 | 12°19 | 7°11 | 20°13 | 22°56 | 24°22 | 16°46 | 14°30 | T 25 |
| W26 | 12 14 13 | 5°29'06 | 1 M 49 | 7°57 | 17°51 | 7°47 | 23°43 | 9°43 | 12°22 | 7°13 | 20°12 | 22°48 | 24°19 | 16°52 | 14°34 | W26 |
| T 27 | 12 18 10 | 6°28'18 | 13°50 | 10° 0 | 19° 5 | 8°22 | 23°45 | 9°38 | 12°25 | 7°15 | 20°12 | 22°39 | 24°16 | 16°59 | 14°37 | T 27 |
| F 28 | 12 22 6 | 7°27'27 | 26° 0 | 12° 4 | 20°19 | 8°58 | 23°48 | 9°33 | 12°28 | 7°17 | 20°12 | 22°30 | 24°12 | 17° 6 | 14°41 | F 28 |
| S 29 | 12 26 3 | 8°26'34 | 8 ₾ 20 | 14° 7 | 21°34 | 9°33 | 23°50 | 9°29 | 12°31 | 7°19 | 20°12 | 22°23 | 24° 9 | 17°12 | 14°44 | S 29 |
| S 30 | 12 30 0 | 9°25'40 | 20°49 | 16°11 | 22°48 | 10° 9 | 23°52 | 9°24 | 12°34 | 7°21 | 20°12 | 22°17 | 24° 6 | 17°19 | 14°48 | S 30 |
| M31 | 12 33 56 | 10 Y 24'43 | 3 M .30 | 18 Y 14 | 24 Y 2 | 10 る 44 | 23 × 754 | 9 ≙ 19 | 12 8 37 | 7 ∺ 23 | 209512 | 22813 | 24 8 3 | 17 Ω 26 | 14 8 52 | M31 |

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| T 1 | 12 37 53 | 11 Y 23'44 | 16M21 | 20 Υ 17 | 25 Y 16 | 11 궁 20 | 23 х 56 | 9°R15 | 12840 | 7 ∺ 25 | 20°R12 | 22°D12 | 24 8 0 | 17 Ω 33 | 14 8 56 | T 1 |
| W 2 | 12 41 49 | 12°22'44 | 29°25 | 22°19 | 26°30 | 11°55 | 23°58 | 9 ₾ 10 | 12°43 | 7°27 | 209512 | 22812 | 23°57 | 17°39 | 14°59 | W 2 |
| T 3 | 12 45 46 | 13°21'42 | 12 × 42 | 24°19 | 27°44 | 12°30 | 23°59 | 9° 5 | 12°46 | 7°29 | 20°D12 | 22°13 | 23°53 | 17°46 | 15° 3 | T 3 |
| F 4 | 12 49 42 | 14°20'38 | 26°13 | 26°18 | 28°58 | 13° 5 | 24° 1 | 9° 1 | 12°49 | 7°31 | 20°12 | 22°14 | 23°50 | 17°53 | 15° 7 | F 4 |
| S 5 | 12 53 39 | 15°19'32 | 10る 0 | 28°14 | 0813 | 13°40 | 24° 2 | 8°56 | 12°52 | 7°32 | 20°12 | 22°R15 | 23°47 | 17°59 | 15°11 | S 5 |
| S 6 | 12 57 35 | 16°18'25 | 24° 1 | 0 8 9 | 1°27 | 14°15 | 24° 3 | 8°52 | 12°55 | 7°34 | 20°12 | 22°15 | 23°44 | 18° 6 | 15°15 | S 6 |
| M 7 | 13 132 | 17°17'16 | 8≈18 | 2° 0 | 2°41 | 14°50 | 24° 3 | 8°47 | 12°59 | 7°36 | 20°12 | 22°14 | 23°41 | 18°13 | 15°19 | M 7 |
| T 8 | 13 5 29 | 18°16'05 | 22°47 | 3°48 | 3°54 | 15°25 | 24° 4 | 8°42 | 13° 2 | 7°38 | 20°12 | 22°11 | 23°38 | 18°20 | 15°23 | T 8 |
| W 9 | 13 9 25 | 19°14'53 | 7) €24 | 5°33 | 5° 8 | 15°59 | 24° 4 | 8°38 | 13° 5 | 7°40 | 20°12 | 22° 6 | 23°34 | 18°26 | 15°26 | W 9 |
| T 10 | 13 13 22 | 20°13'38 | 22° 3 | 7°15 | 6°22 | 16°34 | 24°R 4 | 8°33 | 13° 8 | 7°42 | 20°12 | 22° 2 | 23°31 | 18°33 | 15°30 | T 10 |
| F 11 | 13 17 18 | 21°12'22 | 6 Υ 38 | 8°52 | 7°36 | 17° 8 | 24° 4 | 8°29 | 13°12 | 7°43 | 20°13 | 21°57 | 23°28 | 18°40 | 15°34 | F 11 |
| S 12 | 13 21 15 | 22°11'04 | 21° 2 | 10°25 | 8°50 | 17°43 | 24° 4 | 8°24 | 13°15 | 7°45 | 20°13 | 21°53 | 23°25 | 18°47 | 15°39 | S 12 |
| S 13 | 13 25 11 | 23° 9'43 | 5 8 8 | 11°54 | 10° 4 | 18°17 | 24° 3 | 8°20 | 13°18 | 7°47 | 20°13 | 21°51 | 23°22 | 18°53 | 15°43 | S 13 |
| M14 | 13 29 8 | 24° 8'21 | 18°53 | 13°18 | 11°18 | 18°51 | 24° 3 | 8°15 | 13°22 | 7°49 | 20°13 | 21°D50 | 23°18 | 19° 0 | 15°47 | M14 |
| T 15 | 13 33 4 | 25° 6'57 | 2 I I15 | 14°37 | 12°31 | 19°25 | 24° 2 | 8°11 | 13°25 | 7°50 | 20°14 | 21°50 | 23°15 | 19° 7 | 15°51 | T 15 |
| W16 | 13 37 1 | 26° 5'31 | 15°14 | 15°52 | 13°45 | 19°59 | 24° 1 | 8° 7 | 13°28 | 7°52 | 20°14 | 21°51 | 23°12 | 19°13 | 15°55 | W16 |
| T 17 | 13 40 58 | 27° 4'03 | 27°52 | 17° 1 | 14°59 | 20°32 | 24° 0 | 8° 3 | 13°32 | 7°54 | 20°14 | 21°53 | 23° 9 | 19°20 | 15°59 | T 17 |
| F 18 | 13 44 54 | 28° 2'32 | 109512 | 18° 5 | 16°13 | 21° 6 | 23°58 | 7°58 | 13°35 | 7°55 | 20°15 | 21°55 | 23° 6 | 19°27 | 16° 3 | F 18 |
| S 19 | 13 48 51 | 29° 1'00 | 22°19 | 19° 4 | 17°26 | 21°39 | 23°57 | 7°54 | 13°38 | 7°57 | 20°15 | 21°56 | 23° 3 | 19°34 | 16° 7 | S 19 |
| S 20 | 13 52 47 | 29°59'25 | 4 Ω 16 | 19°58 | 18°40 | 22°13 | 23°55 | 7°50 | 13°42 | 7°59 | 20°16 | 21°R56 | 22°59 | 19°40 | 16°11 | S 20 |
| M21 | 13 56 44 | 0 8 57'48 | 16° 9 | 20°46 | 19°53 | 22°46 | 23°53 | 7°46 | 13°45 | 8° 0 | 20°16 | 21°55 | 22°56 | 19°47 | 16°16 | M21 |
| T 22 | 14 0 40 | 1°56'09 | 28° 3 | 21°29 | 21° 7 | 23°19 | 23°51 | 7°42 | 13°49 | 8° 2 | 20°16 | 21°53 | 22°53 | 19°54 | 16°20 | T 22 |
| W23 | 14 4 37 | 2°54'28 | 10 m 0 | 22° 6 | 22°20 | 23°52 | 23°49 | 7°38 | 13°52 | 8° 3 | 20°17 | 21°51 | 22°50 | 20° 1 | 16°24 | W23 |
| T 24 | 14 8 33 | 3°52'45 | 22° 6 | 22°38 | 23°34 | 24°25 | 23°46 | 7°34 | 13°55 | 8° 5 | 20°17 | 21°48 | 22°47 | 20° 7 | 16°28 | T 24 |
| F 25 | 14 12 30 | 4°51'00 | 4 <u>Ω</u> 23 | 23° 4 | 24°47 | 24°57 | 23°44 | 7°30 | 13°59 | 8° 6 | 20°18 | 21°45 | 22°43 | 20°14 | 16°33 | F 25 |
| S 26 | 14 16 27 | 5°49'13 | 16°53 | 23°24 | 26° 1 | 25°30 | 23°41 | 7°26 | 14° 2 | 8° 7 | 20°19 | 21°43 | 22°40 | 20°21 | 16°37 | S 26 |
| S 27 | 14 20 23 | 6°47'24 | 29°38 | 23°39 | 27°14 | 26° 2 | 23°38 | 7°22 | 14° 6 | 8° 9 | 20°19 | 21°41 | 22°37 | 20°27 | 16°41 | S 27 |
| M28 | 14 24 20 | 7°45'33 | 12 M 37 | 23°49 | 28°28 | 26°34 | 23°35 | 7°19 | 14° 9 | 8°10 | 20°20 | 21°40 | 22°34 | 20°34 | 16°45 | M28 |
| T 29 | 14 28 16 | 8°43'41 | 25°52 | 23°R53 | 29°41 | 2 <u>7°</u> 6 | 23°31 | 7°15 | 14°13 | 8°12 | 20°20 | 21°D40 | 22°31 | 20°41 | 16°50 | T 29 |
| W30 | 14 32 13 | 9 8 41'47 | 9 . ₹19 | 23852 | 0 耳 54 | 27 る 38 | 23 × 28 | 7 ₽ 12 | 14816 | 8 ∺ 13 | 20921 | 21841 | 22 8 28 | 20 Ω 48 | 16 8 54 | W30 |

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|--|----|-------|----------------|-------|---------------|-------|--------------|----------------|----------------|-------|--------|---------------|----------|----------|------|
| S 3 14 44 2 12°35′56 20°51 23°19 4°34 29°13 23°16 7° 1 14°27 8°17 20°23 21°43 22°18 21° 8 17 S 4 14°3756 13°33′56 4≈869 22°59 5°47 29°44 23°12 6°58 14°30 8°18 20°24 21°44 22°15 21°14 17 M 5 145156 14°31′56 19°12 22°59 5°47 29°44 23°12 6°55 14°34 8°19 20°25 21°84 22°12 11 7 T 6 145552 15°29′53 34′28 22°9 8°13 0°46 23°3 6°52 14°37 8°20 20°25 21°44 22°12 11°28 11°49 14°41 8°21 20°26 21°43 22°12 12°13 14°41 8°21 20°26 21°43 22°12 21°35 17 T 8 15 45 17°29 12°47 22°44< | | _ | _ | | | | | - | | | | | | | |
| S 4 14 47 59 13°33′56 4≈59 22°59 5°47 29°44 23°12 6°58 14°30 8°18 20°24 21°44 22°15 21°14 17 M 5 14 51 56 14°31′56 19°12 22°36 7° 0 0≈15 23° 8 6°55 14°34 8°19 20°25 21°R44 22°12 21°21 17 T 6 14 55 52 15°29′53 3¥28 22° 9 8°13 0°46 23° 3 6°52 14°37 8°20 20°25 21°R44 22°12 21°21 17 T 6 14 55 52 15°29′53 3¥28 22° 9 8°13 0°46 23° 3 6°52 14°37 8°20 20°25 21°R44 22° 12 21°25 17 T 8 15 3 45 17°25′45 17°56 21° 7 10°39 1°47 22°54 6°46 14°44 8°21 20°26 21°43 22° 9 21°35 17 F 9 15 7 42 18°23′38 16° 2 20°33 11°52 2°17 22°49 6°43 14°41 8°21 20°26 21°42 22° 2 21°41 17 F 9 15 7 42 18°23′38 16° 2 20°33 11°52 2°17 22°49 6°43 14°47 8°24 20°28 21°42 21°59 21°48 17 S 10 15 11 38 19°21′31 29°58 19°58 13° 5 2°47 22°44 6°40 14°51 8°25 20°29 21°42 21°56 21°55 17 S 11 15 15 35 20°19′22 138′41 19°23 14°18 3°17 22°38 6°35 14′58 8°25 20°29 21°42 21°56 21°55 17 M 12 15 19 31 21°17′12 27° 8 18°47 15°31 3°46 22°33 6°35 14′58 8°27 20°31 21°42 21°49 22° 8 17 T 13 15 23 28 22°15′00 10∏18 18°13 16°44 4°15 22°27 6°32 15° 1 8°27 20°31 21°42 21°49 22° 8 17 T 15 15 31 21 24°103 25° 845 17° 8 19°10 5°13 22°21 6°30 15° 5 8°28 20°33 21°42 21°49 22° 8 17 F 16 15 35 18 25° 8′16 18° 4 16°39 20°22 5°42 22°10 6°25 15°12 8°30 20°35 21°41 21°37 22°35 18 S 17 15 39 14 26° 5′58 0Ω12 16°13 21°35 6°10 22° 4 6°23 15°15 8°31 20°36 21°41 21°37 22°35 18 S 17 15 39 14 26° 5′58 0Ω12 16°13 21°35 6°10 22° 4 6°23 15°15 8°31 20°36 21°41 21°30 22°28 17 F 16 15 35 18 25° 8′16 18° 4 16°39 20°22 5°42 22°10 6°25 15°12 8°30 20°35 21°41 21°30 22°42 18 S 18 15 43 11 27° 339 12°10 15°50 22°48 6°38 21°58 6°17 15°25 8°33 20°36 21°41 21°40 21°27 22°55 18 T 15°55 15°14 28°58 55 51058 15°15 25°13 7°33 21°45 6°17 15°25 8°33 20°40 21°24 21°24 22°25 51 8 T 12°15 15°14 42°58 57 0∭546 0 0 4 4 14°56 27°38 8°27 21°32 6°13 15°59 8°36 20°43 21°40 21°27 22°55 18 T 12°15 15°14 41°51 39°14 21°40 12°21 12°59 21°18 6°10 15°39 8°36 20°43 21°44 21°19 22°25 51 8 T 12°15 15°14 40°15 39°16 18°54 13°16 6°30 11°16 18°44 11°51 12°20 8°37 20°44 21°44 21° 11° 12°39 11° 12°20 15°51 11° 12°10 15°10 8°37 20°44 2 | 2 | 22°21 | 21°42 | 20°22 | 8°15 | 14°23 | 7 Ω 5 | 23 × 20 | 28°42 | 3°21 | 23835 | 6 ප 51 | 11°37'54 | 14 40 6 | F 2 |
| M 5 14 51 56 14°31'56 19°12 22°36 7° 0 0∞15 23° 8 6°55 14°34 8°19 20°25 21°R44 22°12 21°21 17 T 6 14 55 52 15°29'53 3 $\frac{1}{3}$ C8 22° 9 8°13 0°46 23° 3 6°52 14°34 8°19 20°25 21°R44 22°12 21°21 17 T 8 15 345 17°25'45 1 $\frac{1}{7}$ C8 21°39 9°26 1°16 22°58 6°49 14°41 8°21 20°26 21°43 22° 2 21°28 17 T 8 15 345 17°25'45 1 $\frac{1}{7}$ C8 21°39 3°26 1°16 22°58 6°49 14°41 8°21 20°26 21°43 22° 2 21°41 17 T 8 15 345 17°25'45 1 $\frac{1}{7}$ C8 21°33 11°52 22°17 22°49 6°46 14°44 8°22 20°27 21°42 22° 2 21°41 17 T 8 15 138 19°21'31 29°58 19°58 13° 5 2°47 22°44 6°40 14°51 8°25 20°29 21°42 21°56 21°55 17 S 11 15 15 35 20°19'22 13 $\frac{1}{6}$ C41 19°23 14°18 3°17 22°38 6°35 14°58 8°27 20°30 21°42 21°59 21°48 17 T 13 15 23 28 22°15'00 10 $\frac{1}{1}$ 18 18°13 16°44 4°15 22°27 6°32 15° 1 8°27 20°32 21°42 21°49 22° 8 17 T 15 15 35 12 24°10'32 55645 17° 8 19°10 5°13 22°16 6°27 15° 8 8°29 20°34 21°41 21°40 22°28 17 T 15 15 35 12 24°10'32 55645 17° 8 19°10 5°13 22°16 6°27 15° 8 8°29 20°34 21°41 21°40 22°28 17 T 15 15 39 14 26° 5'58 0 $\frac{1}{6}$ 1 16° 13 21°35 6°10 22° 4 6°23 15° 15 8°31 20°36 21°41 21°37 22°35 18 S 17 15 39 14 26° 5'58 0 $\frac{1}{6}$ 1 15°30 22°48 6°38 21°58 6°11 15°19 8°32 20°37 21°40 21°30 22°49 18 M 19 15 47 7 28° 1'18 24° 4 15°30 24° 1 7° 5 21°51 6°10 22° 4 6°23 15° 15 8°31 20°36 21°41 21°37 22°35 18 S 17 15 39 14 26° 5'58 0 $\frac{1}{6}$ 1 15°30 22°48 6°38 21°58 6°15 15°29 8°33 20°37 21°40 21°24 22°25 18 S 24 16 6 50 2°49'11 25° 1 15°50 22°48 6°38 21°58 6°15 15°29 8°33 20°39 21°40 21°24 23° 2 18 S 24 16 6 50 2°49'11 25° 1 14°55 0 $\frac{1}{6}$ 3 39°19 21°18 6°10 15°39 8°36 20°44 | 2 | 22°18 | 21°43 | 20°23 | 8°17 | 14°27 | 7° 1 | 23°16 | 29°13 | 4°34 | 23°19 | 20°51 | 12°35'56 | 14 44 2 | S 3 |
| T 6 | 2 | 22°15 | 21°44 | 20°24 | | | 6°58 | 23°12 | 29°44 | | | 4≈59 | 13°33'56 | 14 47 59 | S 4 |
| W 7 14 59 49 16°27'50 17°43 21°39 9°26 1°16 22°58 6°49 14°41 8°21 20°26 21°43 22° 5 21°35 17 T 8 15 3 45 17°25'45 19°36 21° 7 10°39 1°47 22°54 6°46 14°44 8°22 20°27 21°42 22° 2 21°41 17 F 9 15 7 42 18°23'38 16° 2 20°33 11°52 2°17 22°49 6°43 14°47 8°24 20°28 21°42 21°59 21°48 17 S 10 15 11 38 19°21'31 29°58 19°58 13° 5 2°47 22°44 6°40 14°51 8°25 20°29 21°42 21°56 21°55 17 S 11 15 15 35 20°19'22 13841 19°23 14°18 3°17 22°38 6°37 14°54 8°26 20°30 21°42 21°53 22° 2 17 M12 15 19 31 21°17'12 27° 8 18°47 15°31 3°46 22°33 6°35 14°58 8°27 20°31 | 2 | | 21°R44 | 20°25 | 8°19 | 14°34 | 6°55 | 23° 8 | 0≈15 | 7° 0 | | | 14°31'56 | 14 51 56 | M 5 |
| T 8 15 3 45 17°25'45 1Υ°56 21° 7 10°39 1°47 22°54 6°46 14°44 8°22 20°27 21°42 22° 2 21°41 17 F 9 15 7 42 18°23'38 16° 2 20°33 11°52 2°17 22°49 6°43 14°47 8°24 20°28 21°42 21°59 21°48 17 S 10 15 11 38 19°21'31 29°58 19°58 13° 5 2°47 22°44 6°40 14°51 8°25 20°29 21°42 21°59 21°48 17 S 11 15 15 35 20°19'22 13°41 19°23 14°18 3°17 22°38 6°37 14°54 8°26 20°30 21°42 21°53 22° 2 17 M12 15 19 31 21°17'12 27° 8 18°47 15°31 3°46 22°33 6°35 14°58 8°27 20°31 21°42 21°42 21°40 22°8 17 T 13 15 27 25 23°12'47 2 | 2 | 22° 9 | 21°43 | 20°25 | 8°20 | 14°37 | 6°52 | 23° 3 | 0°46 | 8°13 | 22° 9 | 3 ∺ 28 | 15°29'53 | 14 55 52 | T 6 |
| F 9 15 7 42 18°23'38 16° 2 20°33 11°52 2°17 22°49 6°43 14°47 8°24 20°28 21°42 21°59 21°48 17 8 10 15 11 38 19°21'31 29°58 19°58 13° 5 2°47 22°44 6°40 14°51 8°25 20°29 21°42 21°56 21°55 17 8 11 15 15 35 20°19'22 13\(2001841\) 19°23 14°18 3°17 22°38 6°37 14°54 8°26 20°30 21°42 21°53 22° 2 17 M12 15 19 31 21°17'12 27° 8 18°47 15°31 3°46 22°33 6°35 14°58 8°27 20°31 21°42 21°49 22° 8 17 13 15 23 28 22°15'00 10\(1\) 10\(1\) 18 18°13 16°44 4°15 22°27 6°32 15° 1 8°27 20°32 21°42 21°46 22°15 17 13 15 23 28 22°15'00 10\(1\) 11\(1\) 18 18°13 16°44 4°15 22°27 6°32 15° 1 8°27 20°32 21°42 21°46 22°15 17 15 15 31 21 24°10'32 5\(\frac{3}{2}\) 45 17° 8 19°10 5°13 22°16 6°27 15° 8 8°28 20°33 21°42 21°40 22°28 17 15 15 31 21 24°10'32 5\(\frac{3}{2}\) 45 17° 8 19°10 5°13 22°16 6°27 15° 8 8°29 20°34 21°41 21°40 22°28 17 15 39 14 26° 5'58 0\(\hat{\Omega}\) 12 16°13 21°35 6°10 22° 4 6°23 15°15 8°31 20°36 21°41 21°37 22°35 18 15 15 39 14 26° 5'58 0\(\hat{\Omega}\) 12 10 15°50 22°48 6°38 21°55 6°10 22° 4 6°23 15°15 8°31 20°36 21°41 21°34 22°42 18 15 15 14 28°58'55 5\(\hat{\Omega}\) 12 10 15°50 22°48 6°38 21°55 6°10 22° 4 6°23 15°15 8°31 20°36 21°41 21°37 22°35 18 15 15 14 28°58'55 5\(\hat{\Omega}\) 12 10 15°50 22°48 6°38 21°55 6°17 15°22 8°32 20°37 21°40 21°27 22°55 18 15 15 14 28°58'55 5\(\hat{\Omega}\) 13 17°56 15° 15 25°13 7°33 21°45 6°17 15°25 8°33 20°39 21°40 21°24 23° 2 18 15 15 15 15 15 15 15 15 15 15°12 12°50 15°15 | 2 | 22° 5 | 21°43 | 20°26 | 8°21 | 14°41 | 6°49 | 22°58 | 1°16 | 9°26 | 21°39 | 17°43 | 16°27'50 | 14 59 49 | W 7 |
| \$\begin{array}{c c c c c c c c c c c c c c c c c c c | 2 | 22° 2 | 21°42 | 20°27 | 8°22 | 14°44 | 6°46 | 22°54 | 1°47 | 10°39 | 21° 7 | 1 Y 56 | 17°25'45 | 15 3 45 | T 8 |
| S 1 15 15 35 20°19′22 13&41 19°23 14°18 3°17 22°38 6°37 14°54 8°26 20°30 21°42 21°53 22° 2 17 M12 15 19 31 21°17′12 27° 8 18°47 15°31 3°46 22°33 6°35 14°58 8°27 20°31 21°42 21°49 22° 8 17 T13 15 23 28 22°15′00 10 18 18°13 16°44 4°15 22°27 6°32 15° 1 8°27 20°32 21°42 21°46 22°15 17 W14 15 27 25 23°12′47 23°10 17°39 17°57 4°44 22°22 6°30 15° 5 8°28 20°33 21°42 21°43 22°22 17 T15 15 31 21 24°10′32 56°45 17° 8 19°10 5°13 22°16 6°27 15° 8 8°29 20°34 21°41 21°40 22°28 17 F16 15 35 18 25° 8′16 18° 4 16°39 20°22 5°42 22°10 6°25 15°12 8°30 20°35 21°41 21°37 22°35 18 15 31 21 24°10′32 23°24 16°13 21°35 6°10 22° 4 6°23 15°15 8°31 20°36 21°41 21°37 22°42 18 15 43 11 27° 3′39 12°10 15°50 22°48 6°38 21°58 6°21 15°19 8°32 20°37 21°40 21°27 22°255 18 15 15 15 15 15 15 | 2 | 21°59 | 21°42 | 20°28 | 8°24 | 14°47 | 6°43 | 22°49 | 2°17 | 11°52 | 20°33 | 16° 2 | 18°23'38 | 15 7 42 | F 9 |
| M12 | 2 | 21°56 | 21°42 | 20°29 | 8°25 | 14°51 | 6°40 | 22°44 | 2°47 | 13° 5 | 19°58 | 29°58 | 19°21'31 | 15 11 38 | S 10 |
| T 13 | 2 | 21°53 | 21°42 | 20°30 | 8°26 | 14°54 | 6°37 | 22°38 | 3°17 | 14°18 | 19°23 | 13841 | 20°19'22 | 15 15 35 | S 11 |
| Wi4 15 27 25 23°12'47 23°10 17°39 17°57 4°44 22°22 6°30 15° 5 8°28 20°33 21°42 21°43 22°22 17 | 2 | 21°49 | 21°42 | 20°31 | 8°27 | 14°58 | 6°35 | 22°33 | 3°46 | 15°31 | 18°47 | 27° 8 | 21°17'12 | 15 19 31 | M12 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 2 | 21°46 | 21°42 | 20°32 | 8°27 | 15° 1 | 6°32 | 22°27 | 4°15 | 16°44 | 18°13 | 10Ⅱ18 | 22°15'00 | 15 23 28 | T 13 |
| F 16 | 2 | 21°43 | 21°42 | 20°33 | 8°28 | 15° 5 | 6°30 | 22°22 | 4°44 | 17°57 | 17°39 | 23°10 | 23°12'47 | 15 27 25 | W14 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 2 | 21°40 | 21°41 | 20°34 | 8°29 | 15° 8 | 6°27 | 22°16 | 5°13 | 19°10 | 17° 8 | 59345 | 24°10'32 | 15 31 21 | T 15 |
| S 18 15 43 11 27° 3'39 12°10 15°50 22°48 6°38 21°58 6°21 15°19 8°32 20°37 21°40 21°30 22°49 18 M19 15 47 7 28° 1'18 24° 4 15°30 24° 1 7° 5 21°51 6°19 15°22 8°32 20°37 21°40 21°27 22°55 18 T 20 15 51 4 28°58'55 50058 15°15 25°13 7°33 21°45 6°17 15°25 8°33 20°39 21°40 21°24 23° 2 18 W21 15 55 0 29°56'31 17°56 15° 3 26°26 8° 0 21°38 6°15 15°29 8°34 20°40 21°40 21°21 23° 9 18 T 22 15 58 57 0 154'06 0 4 14°56 27°38 8°27 21°32 6°13 15°32 8°35 20°41 21°41 21°18 23°16 18 F 23 16 2 54 1°51'39 12°24 14°D53 28°51 8°53 21°25 6°11 15°36 8°35 20°42 <t< td=""><td>2</td><td>21°37</td><td>21°41</td><td>20°35</td><td>8°30</td><td>15°12</td><td>6°25</td><td>22°10</td><td>5°42</td><td>20°22</td><td>16°39</td><td>18° 4</td><td>25° 8'16</td><td>15 35 18</td><td>F 16</td></t<> | 2 | 21°37 | 21°41 | 20°35 | 8°30 | 15°12 | 6°25 | 22°10 | 5°42 | 20°22 | 16°39 | 18° 4 | 25° 8'16 | 15 35 18 | F 16 |
| M19 | 2 | 21°34 | 21°41 | 20°36 | 8°31 | 15°15 | 6°23 | 22° 4 | 6°10 | 21°35 | 16°13 | 0 Ω 12 | 26° 5'58 | 15 39 14 | S 17 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 2 | 21°30 | 21°40 | 20°37 | 8°32 | 15°19 | 6°21 | 21°58 | 6°38 | 22°48 | 15°50 | 12°10 | 27° 3'39 | 15 43 11 | S 18 |
| W21 | 2 | 21°27 | 21°D40 | 20°38 | 8°32 | 15°22 | 6°19 | 21°51 | 7° 5 | 24° 1 | 15°30 | 24° 4 | 28° 1'18 | 15 47 7 | M19 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 2 | 21°24 | 21°40 | 20°39 | 8°33 | 15°25 | 6°17 | 21°45 | 7°33 | 25°13 | 15°15 | 5 m 58 | 28°58'55 | 15 51 4 | T 20 |
| F 23 | 2 | 21°21 | 21°40 | 20°40 | 8°34 | 15°29 | 6°15 | 21°38 | 8° 0 | 26°26 | 15° 3 | 17°56 | 29°56'31 | 15 55 0 | W21 |
| S 24 16 6 50 2°49'11 25° 1 14°55 05° 3 9°19 21°18 6°10 15°39 8°36 20°43 21°43 21°11 23°29 18 S 25 16 10 47 3°46'41 7M.56 15° 1 1°16 9°45 21°11 6° 8 15°42 8°36 20°44 21°44 21° 8 23°36 18 M26 16 14 43 4°44'11 21°12 15°12 2°28 10°11 21° 4 6° 7 15°46 8°37 20°46 21°R44 21° 8 23°42 18 T 27 16 18 40 5°41'39 4x/47 15°27 3°40 10°36 20°57 6° 6 15°49 8°37 20°47 21°44 21° 2 23°49 18 W28 16 22 36 6°39'06 18°41 15°46 4°53 11° 1 20°50 6° 5 15°52 8°38 20°48 21°43 20°59 23°56 18 | 2 | 21°18 | 21°41 | 20°41 | 8°35 | 15°32 | 6°13 | 21°32 | 8°27 | 27°38 | 14°56 | 0요 4 | 0П54'06 | 15 58 57 | T 22 |
| S 25 16 10 47 3°46'41 7ML56 15° 1 1°16 9°45 21°11 6° 8 15°42 8°36 20°44 21°44 21° 8 23°36 18 M26 16 14 43 4°44'11 21°12 15°12 2°28 10°11 21° 4 6° 7 15°46 8°37 20°46 21°R44 21° 8 23°36 18 T 27 16 18 40 5°41'39 4×47 15°27 3°40 10°36 20°57 6° 6 15°49 8°37 20°47 21°44 21° 2 23°49 18 W28 16 22 36 6°39'06 18°41 15°46 4°53 11° 1 20°50 6° 5 15°52 8°38 20°48 21°43 20°59 23°56 18 | 2 | 21°15 | 21°42 | 20°42 | 8°35 | 15°36 | 6°11 | 21°25 | 8°53 | 28°51 | 14°D53 | 12°24 | 1°51'39 | 16 2 54 | F 23 |
| M26 16 14 43 4°44'11 21°12 15°12 2°28 10°11 21° 4 6° 7 15°46 8°37 20°46 21°R44 21° 5 23°42 18 T 27 16 18 40 5°41'39 4x747 15°27 3°40 10°36 20°57 6° 6 15°49 8°37 20°47 21°44 21° 2 23°49 18 W28 16 22 36 6°39'06 18°41 15°46 4°53 11° 1 20°50 6° 5 15°52 8°38 20°48 21°43 20°59 23°56 18 | 2 | 21°11 | 21°43 | 20°43 | 8°36 | 15°39 | 6°10 | 21°18 | 9°19 | 099 3 | 14°55 | 25° 1 | 2°49'11 | 16 6 50 | S 24 |
| T27 16 18 40 5°41'39 4x747 15°27 3°40 10°36 20°57 6° 6 15°49 8°37 20°47 21°44 21° 2 23°49 18 W28 16 22 36 6°39'06 18°41 15°46 4°53 11° 1 20°50 6° 5 15°52 8°38 20°48 21°43 20°59 23°56 18 | 2 | 21° 8 | 21°44 | 20°44 | | 15°42 | | 21°11 | 9°45 | 1°16 | 15° 1 | 7 M 56 | 3°46'41 | 16 10 47 | S 25 |
| W28 16 22 36 6°39'06 18°41 15°46 4°53 11° 1 20°50 6° 5 15°52 8°38 20°48 21°43 20°59 23°56 18 | 2 | 21° 5 | 21°R44 | 20°46 | 8°37 | 15°46 | 6° 7 | 21° 4 | 10°11 | 2°28 | 15°12 | 21°12 | 4°44'11 | 16 14 43 | M26 |
| | 2 | 21° 2 | 21°44 | 20°47 | 8°37 | 15°49 | 6° 6 | 20°57 | 10°36 | 3°40 | 15°27 | 4 才 47 | 5°41'39 | 16 18 40 | T 27 |
| | 2 | 20°59 | 21°43 | 20°48 | 8°38 | 15°52 | 6° 5 | 20°50 | 11° 1 | 4°53 | 15°46 | 18°41 | 6°39'06 | 16 22 36 | W28 |
| T 29 16 26 33 7°36′33 2署49 16°10 6° 5 11°26 20°43 6° 4 15°56 8°38 20°49 21°41 20°55 24° 3 18 | 2 | 20°55 | 21°41 | 20°49 | 8°38 | 15°56 | 6° 4 | 20°43 | 11°26 | 6° 5 | 16°10 | 2 る 49 | 7°36'33 | 16 26 33 | |
| F 30 16 30 29 8°33'58 17° 7 16°38 7°17 11°50 20°36 6° 3 15°59 8°39 20°50 21°39 20°52 24° 9 19 | 2 | 20°52 | 21°39 | 20°50 | 8°39 | 15°59 | 6° 3 | 20°36 | 11°50 | 7°17 | 16°38 | 17° 7 | 8°33'58 | 16 30 29 | F 30 |
| S 31 16 34 26 9∏31'23 1≈31 17811 8©29 12≈14 20₹28 6♀2 168 2 8¥39 20©52 21837 20849 24£16 198 | 24 | 20849 | 21 8 37 | 20952 | 8 ∺ 39 | 168 2 | 6 ♀ 2 | 20 ₮ 28 | 12≈14 | 8929 | 17811 | 1≈31 | 9∏31'23 | 16 34 26 | S 31 |

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| S 1 | 16 38 23 | 10 Ⅲ 28'47 | 15≈55 | 17847 | 9 9 41 | 12≈37 | 20°R21 | 6°R 1 | 16 8 5 | 8) 39 | 20953 | 21°R35 | 20846 | 24€23 | 19 8 11 | S 1 |
| M 2 | 16 42 19 | 11°26'10 | 0 ∺ 16 | 18°28 | 10°53 | 13° 0 | 20 х 13 | 6 ₽ 0 | 16° 9 | 8°40 | 20°54 | 21834 | 20°43 | 24°29 | 19°15 | M 2 |
| T 3 | 16 46 16 | 12°23'33 | 14°29 | 19°13 | 12° 5 | 13°23 | 20° 6 | 6° 0 | 16°12 | 8°40 | 20°56 | 21°D33 | 20°40 | 24°36 | 19°19 | T 3 |
| W 4 | 16 50 12 | 13°20'55 | 28°34 | 20° 1 | 13°17 | 13°45 | 19°58 | 5°59 | 16°15 | 8°40 | 20°57 | 21°34 | 20°36 | 24°43 | 19°23 | W 4 |
| T 5 | 16 54 9 | 14°18'17 | 12 Y 27 | 20°53 | 14°29 | 14° 7 | 19°51 | 5°59 | 16°18 | 8°40 | 20°58 | 21°35 | 20°33 | 24°50 | 19°27 | T 5 |
| F 6 | 16 58 5 | 15°15'38 | 26° 9 | 21°49 | 15°41 | 14°28 | 19°43 | 5°59 | 16°21 | 8°41 | 21° 0 | 21°37 | 20°30 | 24°56 | 19°31 | F 6 |
| S 7 | 17 2 2 | 16°12'59 | 9 8 39 | 22°48 | 16°53 | 14°49 | 19°36 | 5°58 | 16°25 | 8°41 | 21° 1 | 21°38 | 20°27 | 25° 3 | 19°35 | S 7 |
| S 8 | 17 5 58 | 17°10'19 | 22°56 | 23°51 | 18° 5 | 15° 9 | 19°28 | 5°D58 | 16°28 | 8°41 | 21° 2 | 21°R38 | 20°24 | 25°10 | 19°39 | S 8 |
| M 9 | 17 9 55 | 18° 7'38 | 6 I 0 | 24°58 | 19°17 | 15°29 | 19°20 | 5°58 | 16°31 | 8°41 | 21° 4 | 21°38 | 20°21 | 25°17 | 19°43 | M 9 |
| T 10 | 17 13 52 | 19° 4'58 | 18°52 | 26° 7 | 20°28 | 15°49 | 19°13 | 5°59 | 16°34 | 8°41 | 21° 5 | 21°35 | 20°17 | 25°23 | 19°47 | T 10 |
| W11 | 17 17 48 | 20° 2'16 | 19930 | 27°21 | 21°40 | 16° 8 | 19° 5 | 5°59 | 16°37 | 8°R41 | 21° 7 | 21°32 | 20°14 | 25°30 | 19°51 | W11 |
| T 12 | 17 21 45 | 20°59'34 | 13°56 | 28°37 | 22°52 | 16°26 | 18°57 | 5°59 | 16°40 | 8°41 | 21° 8 | 21°28 | 20°11 | 25°37 | 19°55 | T 12 |
| F 13 | 17 25 41 | 21°56'51 | 26°10 | 29°57 | 24° 3 | 16°44 | 18°50 | 6° 0 | 16°43 | 8°41 | 21° 9 | 21°22 | 20° 8 | 25°43 | 19°59 | F 13 |
| S 14 | 17 29 38 | 22°54'08 | 8 Ω 14 | 1 Ⅱ 20 | 25°15 | 17° 2 | 18°42 | 6° 0 | 16°46 | 8°41 | 21°11 | 21°17 | 20° 5 | 25°50 | 20° 3 | S 14 |
| S 15 | 17 33 34 | 23°51'23 | 20°12 | 2°46 | 26°26 | 17°19 | 18°34 | 6° 1 | 16°49 | 8°41 | 21°12 | 21°13 | 20° 1 | 25°57 | 20° 7 | S 15 |
| M16 | 17 37 31 | 24°48'39 | 2Mp 4 | 4°15 | 27°38 | 17°35 | 18°27 | 6° 1 | 16°52 | 8°41 | 21°14 | 21° 9 | 19°58 | 26° 4 | 20°10 | M16 |
| T 17 | 17 41 28 | 25°45'53 | 13°57 | 5°48 | 28°49 | 17°51 | 18°19 | 6° 2 | 16°55 | 8°40 | 21°15 | 21° 7 | 19°55 | 26°10 | 20°14 | T 17 |
| W18 | 17 45 24 | 26°43'07 | 25°54 | 7°23 | 0 Ω 1 | 18° 6 | 18°12 | 6° 3 | 16°57 | 8°40 | 21°17 | 21°D 6 | 19°52 | 26°17 | 20°18 | W18 |
| T 19 | 17 49 21 | 27°40'20 | 8 亞 0 | 9° 2 | 1°12 | 18°21 | 18° 4 | 6° 4 | 17° 0 | 8°40 | 21°18 | 21° 7 | 19°49 | 26°24 | 20°22 | T 19 |
| F 20 | 17 53 17 | 28°37'32 | 20°19 | 10°44 | 2°23 | 18°35 | 17°57 | 6° 5 | 17° 3 | 8°40 | 21°20 | 21° 8 | 19°46 | 26°31 | 20°25 | F 20 |
| S 21 | 17 57 14 | 29°34'44 | 2 M 57 | 12°29 | 3°34 | 18°48 | 17°49 | 6° 7 | 17° 6 | 8°39 | 21°21 | 21° 9 | 19°42 | 26°37 | 20°29 | S 21 |
| S 22 | 18 110 | 0931'55 | 15°57 | 14°16 | 4°45 | 19° 1 | 17°42 | 6° 8 | 17° 9 | 8°39 | 21°23 | 21°R10 | 19°39 | 26°44 | 20°32 | S 22 |
| M23 | 18 5 7 | 1°29'06 | 29°21 | 16° 7 | 5°56 | 19°13 | 17°35 | 6° 9 | 17°11 | 8°39 | 21°24 | 21°10 | 19°36 | 26°51 | 20°36 | M23 |
| T 24 | 18 9 3 | 2°26'17 | 13 × 10 | 18° 0 | 7° 7 | 19°25 | 17°28 | 6°11 | 17°14 | 8°38 | 21°26 | 21° 8 | 19°33 | 26°57 | 20°39 | T 24 |
| W25 | 18 13 0 | 3°23'28 | 27°23 | 19°56 | 8°18 | 19°36 | 17°20 | 6°13 | 17°17 | 8°38 | 21°28 | 21° 5 | 19°30 | 27° 4 | 20°43 | W25 |
| T 26 | 18 16 57 | 4°20'38 | 11 궁 56 | 21°54 | 9°29 | 19°46 | 17°13 | 6°14 | 17°19 | 8°37 | 21°29 | 20°59 | 19°27 | 27°11 | 20°46 | T 26 |
| F 27 | 18 20 53 | 5°17'48 | 26°41 | 23°54 | 10°40 | 19°56 | 17° 6 | 6°16 | 17°22 | 8°37 | 21°31 | 20°53 | 19°23 | 27°18 | 20°50 | F 27 |
| S 28 | 18 24 50 | 6°14'59 | 11 ≈ 31 | 25°57 | 11°50 | 20° 5 | 17° 0 | 6°18 | 17°25 | 8°36 | 21°32 | 20°46 | 19°20 | 27°24 | 20°53 | S 28 |
| S 29 | 18 28 46 | 7°12'09 | 26°18 | 28° 1 | 13° 1 | 20°13 | 16°53 | 6°20 | 17°27 | 8°36 | 21°34 | 20°40 | 19°17 | 27°31 | 20°57 | S 29 |
| M30 | 18 32 43 | 89 9'19 | 10 米 55 | 099 | 14 Ω 12 | 20≈20 | 16 ₹ 46 | 6 ₽ 22 | 17 8 30 | 8 ∺ 35 | 219935 | 20836 | 19 8 14 | 27 Ω 38 | 218 0 | M30 |

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|------|----------|-----------------|----------------|----------------|----------------|---------------|-----------------------------|---------------|----------------|-----------------|-------|----------------|----------------|----------------|-------|------|
| T 1 | 18 36 39 | 99 6'30 | 25 米 17 | 29915 | 15 Ω 22 | 20≈27 | 16°R39 | 6 ₽ 24 | 17 8 32 | 8°R35 | 21937 | 20°R33 | 19 8 11 | 27 Ω 44 | 218 3 | T 1 |
| W 2 | 18 40 36 | 10° 3'41 | 9 Υ 21 | 4°23 | 16°32 | 20°33 | 16 ₹ 33 | 6°27 | 17°34 | 8) (34 | 21°39 | 20°D32 | 19° 7 | 27°51 | 21° 6 | W 2 |
| T 3 | 18 44 32 | 11° 0'53 | 23° 5 | 6°32 | 17°43 | 20°39 | 16°27 | 6°29 | 17°37 | 8°33 | 21°40 | 20 8 33 | 19° 4 | 27°58 | 21°10 | T 3 |
| F 4 | 18 48 29 | 11°58'05 | 6 8 33 | 8°42 | 18°53 | 20°43 | 16°20 | 6°32 | 17°39 | 8°33 | 21°42 | 20°34 | 19° 1 | 28° 5 | 21°13 | F 4 |
| S 5 | 18 52 26 | 12°55'17 | 19°43 | 10°52 | 20° 3 | 20°47 | 16°14 | 6°34 | 17°42 | 8°32 | 21°43 | 20°R35 | 18°58 | 28°11 | 21°16 | S 5 |
| S 6 | 18 56 22 | 13°52'30 | 2 Ⅱ 40 | 13° 2 | 21°14 | 20°50 | 16° 8 | 6°37 | 17°44 | 8°31 | 21°45 | 20°34 | 18°55 | 28°18 | 21°19 | S 6 |
| M 7 | 19 0 19 | 14°49'43 | 15°24 | 15°11 | 22°24 | 20°52 | 16° 2 | 6°40 | 17°46 | 8°30 | 21°47 | 20°31 | 18°52 | 28°25 | 21°22 | M 7 |
| | 19 4 15 | 15°46'57 | 27°57 | 17°20 | 23°34 | 20°54 | 15°56 | 6°42 | 17°48 | 8°30 | 21°48 | 20°26 | 18°48 | 28°32 | 21°25 | T 8 |
| | 19 8 12 | 16°44'11 | 109520 | 19°28 | 24°44 | 20°R54 | 15°51 | 6°45 | 17°50 | 8°29 | 21°50 | 20°18 | 18°45 | 28°38 | 21°28 | W 9 |
| _ | 19 12 8 | 17°41'26 | 22°34 | 21°35 | 25°53 | 20°54 | 15°45 | 6°48 | 17°53 | 8°28 | 21°52 | 20° 9 | 18°42 | 28°45 | 21°31 | T 10 |
| F 11 | 19 16 5 | 18°38'40 | 4 Ω 40 | 23°40 | 27° 3 | 20°53 | 15°40 | 6°52 | 17°55 | 8°27 | 21°53 | 19°58 | 18°39 | 28°52 | 21°34 | F 11 |
| S 12 | 19 20 1 | 19°35'55 | 16°39 | 25°45 | 28°13 | 20°52 | 15°34 | 6°55 | 17°57 | 8°26 | 21°55 | 19°47 | 18°36 | 28°58 | 21°36 | S 12 |
| S 13 | 19 23 58 | 20°33'10 | 28°33 | 27°48 | 29°23 | 20°49 | 15°29 | 6°58 | 17°59 | 8°25 | 21°56 | 19°37 | 18°33 | 29° 5 | 21°39 | S 13 |
| M14 | 19 27 55 | 21°30'26 | 10 m 24 | 29°49 | 0 m 32 | 20°46 | 15°24 | 7° 1 | 18° 1 | 8°24 | 21°58 | 19°28 | 18°29 | 29°12 | 21°42 | M14 |
| T 15 | 19 31 51 | 22°27'42 | 22°15 | 1 Ω 49 | 1°42 | 20°42 | 15°20 | 7° 5 | 18° 3 | 8°23 | 22° 0 | 19°22 | 18°26 | 29°19 | 21°44 | T 15 |
| W16 | 19 35 48 | 23°24'58 | 4 ₽ 10 | 3°47 | 2°51 | 20°37 | 15°15 | 7° 8 | 18° 5 | 8°22 | 22° 1 | 19°18 | 18°23 | 29°25 | 21°47 | W16 |
| T 17 | 19 39 44 | 24°22'14 | 16°14 | 5°44 | 4° 0 | 20°32 | 15°10 | 7°12 | 18° 6 | 8°21 | 22° 3 | 19°16 | 18°20 | 29°32 | 21°50 | T 17 |
| F 18 | 19 43 41 | 25°19'30 | 28°30 | 7°38 | 5° 9 | 20°26 | 15° 6 | 7°16 | 18° 8 | 8°20 | 22° 5 | 19°D16 | 18°17 | 29°39 | 21°52 | F 18 |
| S 19 | 19 47 37 | 26°16'47 | 11 M 5 | 9°32 | 6°18 | 20°19 | 15° 2 | 7°20 | 18°10 | 8°19 | 22° 6 | 19°16 | 18°13 | 29°45 | 21°54 | S 19 |
| S 20 | 19 51 34 | 27°14'05 | 24° 2 | 11°23 | 7°27 | 20°11 | 14°58 | 7°23 | 18°12 | 8°18 | 22° 8 | 19°R16 | 18°10 | 29°52 | 21°57 | S 20 |
| M21 | 19 55 30 | 28°11'22 | 7 . ₹26 | 13°13 | 8°36 | 20° 3 | 14°54 | 7°27 | 18°13 | 8°17 | 22° 9 | 19°15 | 18° 7 | 29°59 | 21°59 | M21 |
| | 19 59 27 | 29° 8'41 | 21°19 | 15° 0 | 9°45 | 19°54 | 14°50 | 7°32 | 18°15 | 8°15 | 22°11 | 19°11 | 18° 4 | 0 m) 6 | 22° 1 | T 22 |
| | 20 3 24 | 0 ん 6′00 | 5 る 41 | 16°47 | 10°54 | 19°45 | 14°47 | 7°36 | 18°17 | 8°14 | 22°13 | 19° 5 | 18° 1 | 0°12 | 22° 4 | W23 |
| | 20 7 20 | 1° 3'19 | 20°27 | 18°31 | 12° 2 | 19°34 | 14°43 | 7°40 | 18°18 | 8°13 | 22°14 | 18°57 | 17°58 | 0°19 | 22° 6 | T 24 |
| - | 20 11 17 | 2° 0'39 | 5≈30 | 20°14 | 13°11 | 19°24 | 14°40 | 7°44 | 18°20 | 8°12 | 22°16 | 18°47 | 17°54 | 0°26 | 22° 8 | F 25 |
| S 26 | 20 15 13 | 2°58'00 | 20°41 | 21°55 | 14°19 | 19°12 | 14°37 | 7°48 | 18°21 | 8°10 | 22°18 | 18°37 | 17°51 | 0°33 | 22°10 | S 26 |
| S 27 | 20 19 10 | 3°55'22 | 5 ¥ 50 | 23°34 | 15°27 | 19° 0 | 14°34 | 7°53 | 18°22 | 8° 9 | 22°19 | 18°28 | 17°48 | 0°39 | 22°12 | S 27 |
| - | 20 23 6 | 4°52'45 | 20°45 | 25°12 | 16°35 | 18°48 | 14°32 | 7°57 | 18°24 | 8° 8 | 22°21 | 18°20 | 17°45 | 0°46 | 22°14 | M28 |
| T 29 | 20 27 3 | 5°50'09 | 5 ℃ 21 | 26°48 | 17°43 | 18°35 | 14°29 | 8° 2 | 18°25 | 8° 7 | 22°22 | 18°15 | 17°42 | 0°53 | 22°16 | T 29 |
| | 20 30 59 | 6°47'34 | 19°33 | 28°22 | 18°51 | 18°21 | 14°27 | 8° 7 | 18°26 | 8° 5 | 22°24 | 18°12 | 17°39 | 0°59 | 22°18 | W30 |
| T 31 | 20 34 56 | $7\Omega 45'00$ | 3 8 20 | 29 Ω 55 | 19 m 59 | 18 ≈ 7 | 14 × ⁷ 25 | 8 亞 11 | 18 8 28 | 8 ∺ 4 | 22526 | 18°D11 | 17 8 35 | 1 MD 6 | 22820 | T 31 |

Delta T = 19.63 sec

Greg. Calendar

AUGUST 1687 GC 00:00 UT

| Day | Sid.t | 0 | 7 | φ | · | ð | 4 | ħ | 'n | 4 | 2 | F | Ω | ç | Š | Day |
|------|----------|------------------|------------------|---------------|----------------|----------------|-----------------|---------------|----------------|---------------|--------|----------------|----------------|----------------|----------------|------|
| F 1 | 20 38 53 | 8 Ω 42'28 | 16 8 43 | 1 m 26 | 21 Mg 6 | 17°R53 | 14°R23 | 8 ₾ 16 | 18 8 29 | 8°R 3 | 229527 | 18°R11 | 17 8 32 | 1 m 13 | 22821 | F 1 |
| S 2 | 20 42 49 | 9°39'57 | 29°45 | 2°55 | 22°14 | 17 ≈ 38 | 14 × 21 | 8°21 | 18°30 | 8 ∺ 1 | 22°29 | 18 8 11 | 17°29 | 1°20 | 22°23 | S 2 |
| S 3 | 20 46 46 | 10°37'27 | 12Ⅲ29 | 4°22 | 23°21 | 17°23 | 14°20 | 8°26 | 18°31 | 8° 0 | 22°30 | 18° 9 | 17°26 | 1°26 | 22°25 | S 3 |
| M 4 | 20 50 42 | 11°34'59 | 25° 0 | 5°48 | 24°28 | 17° 8 | 14°18 | 8°31 | 18°32 | 7°58 | 22°32 | 18° 5 | 17°23 | 1°33 | 22°26 | M 4 |
| T 5 | 20 54 39 | 12°32'32 | 7 9 519 | 7°12 | 25°35 | 16°53 | 14°17 | 8°36 | 18°33 | 7°57 | 22°33 | 17°58 | 17°19 | 1°40 | 22°28 | T 5 |
| W 6 | 20 58 35 | 13°30'06 | 19°29 | 8°34 | 26°42 | 16°37 | 14°16 | 8°41 | 18°34 | 7°55 | 22°35 | 17°48 | 17°16 | 1°46 | 22°29 | W 6 |
| T 7 | 21 2 32 | 14°27'42 | 1 Ω 33 | 9°54 | 27°49 | 16°21 | 14°15 | 8°46 | 18°35 | 7°54 | 22°36 | 17°36 | 17°13 | 1°53 | 22°31 | T 7 |
| F 8 | 21 6 29 | 15°25'19 | 13°31 | 11°13 | 28°56 | 16° 5 | 14°14 | 8°52 | 18°36 | 7°52 | 22°38 | 17°22 | 17°10 | 2° 0 | 22°32 | F 8 |
| S 9 | 21 10 25 | 16°22'57 | 25°25 | 12°29 | 0요 2 | 15°49 | 14°14 | 8°57 | 18°36 | 7°51 | 22°40 | 17° 8 | 17° 7 | 2° 7 | 22°33 | S 9 |
| S 10 | 21 14 22 | 17°20'36 | 7 m) 17 | 13°44 | 1° 9 | 15°33 | 14°14 | 9° 2 | 18°37 | 7°49 | 22°41 | 16°55 | 17° 4 | 2°13 | 22°34 | S 10 |
| M11 | 21 18 18 | 18°18'16 | 19° 7 | 14°57 | 2°15 | 15°17 | 14°D14 | 9° 8 | 18°38 | 7°48 | 22°43 | 16°43 | 17° 0 | 2°20 | 22°36 | M11 |
| T 12 | 21 22 15 | 19°15'57 | 0 ჲ 59 | 16° 7 | 3°21 | 15° 2 | 14°14 | 9°13 | 18°39 | 7°46 | 22°44 | 16°34 | 16°57 | 2°27 | 22°37 | T 12 |
| W13 | 21 26 11 | 20°13'40 | 12°55 | 17°15 | 4°27 | 14°46 | 14°14 | 9°19 | 18°39 | 7°45 | 22°46 | 16°28 | 16°54 | 2°33 | 22°38 | W13 |
| T 14 | 21 30 8 | 21°11'24 | 24°58 | 18°21 | 5°32 | 14°31 | 14°15 | 9°25 | 18°40 | 7°43 | 22°47 | 16°25 | 16°51 | 2°40 | 22°39 | T 14 |
| F 15 | 21 34 4 | 22° 9'08 | 7 m .13 | 19°25 | 6°38 | 14°15 | 14°15 | 9°30 | 18°40 | 7°42 | 22°48 | 16°23 | 16°48 | 2°47 | 22°39 | F 15 |
| S 16 | 21 38 1 | 23° 6'54 | 19°45 | 20°26 | 7°43 | 14° 1 | 14°16 | 9°36 | 18°41 | 7°40 | 22°50 | 16°23 | 16°45 | 2°54 | 22°40 | S 16 |
| S 17 | 21 41 57 | 24° 4'42 | 2 ₹ 38 | 21°24 | 8°48 | 13°46 | 14°17 | 9°42 | 18°41 | 7°39 | 22°51 | 16°23 | 16°41 | 3° 0 | 22°41 | S 17 |
| M18 | 21 45 54 | 25° 2'30 | 15°56 | 22°20 | 9°53 | 13°32 | 14°18 | 9°48 | 18°41 | 7°37 | 22°53 | 16°22 | 16°38 | 3° 7 | 22°42 | M18 |
| T 19 | 21 49 51 | 26° 0'20 | 29°44 | 23°13 | 10°58 | 13°18 | 14°20 | 9°54 | 18°42 | 7°35 | 22°54 | 16°19 | 16°35 | 3°14 | 22°42 | T 19 |
| W20 | 21 53 47 | 26°58'10 | 14궁 1 | 24° 3 | 12° 3 | 13° 5 | 14°21 | 10° 0 | 18°42 | 7°34 | 22°56 | 16°13 | 16°32 | 3°21 | 22°43 | W20 |
| T 21 | 21 57 44 | 27°56'03 | 28°46 | 24°49 | 13° 7 | 12°52 | 14°23 | 10° 6 | 18°42 | 7°32 | 22°57 | 16° 5 | 16°29 | 3°27 | 22°43 | T 21 |
| F 22 | 22 1 40 | 28°53'56 | 13≈52 | 25°32 | 14°11 | 12°40 | 14°25 | 10°12 | 18°42 | 7°31 | 22°58 | 15°55 | 16°25 | 3°34 | 22°44 | F 22 |
| S 23 | 22 5 37 | 29°51'51 | 29°11 | 26°11 | 15°15 | 12°28 | 14°27 | 10°18 | 18°42 | 7°29 | 23° 0 | 15°44 | 16°22 | 3°41 | 22°44 | S 23 |
| S 24 | 22 9 33 | 0 m 49'47 | 14) (30 | 26°47 | 16°19 | 12°17 | 14°30 | 10°24 | 18°R42 | 7°27 | 23° 1 | 15°34 | 16°19 | 3°47 | 22°45 | S 24 |
| M25 | 22 13 30 | 1°47'45 | 29°39 | 27°18 | 17°22 | 12° 7 | 14°32 | 10°30 | 18°42 | 7°26 | 23° 2 | 15°26 | 16°16 | 3°54 | 22°45 | M25 |
| T 26 | 22 17 26 | 2°45'45 | 14 Y 29 | 27°44 | 18°25 | 11°57 | 14°35 | 10°37 | 18°42 | 7°24 | 23° 4 | 15°21 | 16°13 | 4° 1 | 22°45 | T 26 |
| W27 | 22 21 23 | 3°43'46 | 28°52 | 28° 6 | 19°28 | 11°48 | 14°38 | 10°43 | 18°42 | 7°22 | 23° 5 | 15°18 | 16°10 | 4° 8 | 22°45 | W27 |
| T 28 | 22 25 20 | 4°41'50 | 12847 | 28°24 | 20°31 | 11°39 | 14°41 | 10°49 | 18°42 | 7°21 | 23° 6 | 15°D17 | 16° 6 | 4°14 | 22°R45 | T 28 |
| F 29 | 22 29 16 | 5°39'56 | 26°15 | 28°35 | 21°33 | 11°31 | 14°44 | 10°56 | 18°42 | 7°19 | 23° 8 | 15°17 | 16° 3 | 4°21 | 22°45 | F 29 |
| S 30 | 22 33 13 | 6°38'03 | 9∏18 | 28°42 | 22°36 | 11°24 | 14°47 | 11° 2 | 18°42 | 7°17 | 23° 9 | 15°R17 | 16° 0 | 4°28 | 22°45 | S 30 |
| S 31 | 22 37 9 | 7 m 36'13 | 21耳59 | 28°R42 | 23 ≏ 37 | 11 ≈ 18 | 14 ×7 51 | 11 ♀ 9 | 18 8 41 | 7 ∺ 16 | 23910 | 15 8 16 | 15 8 57 | 4 m /34 | 22 8 45 | S 31 |

Delta T = 19.59 sec

SEPTEMBER 1687 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)Å(| ¥ | В | u | v | Ç | ę, | Day |
|------|----------|------------------|-----------------|-----------------|----------------|--------|-----------------|----------------|----------------|---------------|--------|----------------|----------------|---------------|----------------|------|
| M 1 | 22 41 6 | 8 m/ 34'25 | 49524 | 28°R36 | 24 ₽ 39 | 11°R12 | 14 × 755 | 11 ≏ 15 | 18°R41 | 7°R14 | 239511 | 15°R13 | 15 8 54 | 4Mp41 | 22°R45 | M 1 |
| T 2 | 22 45 2 | 9°32'38 | 16°36 | 28 m 24 | 25°40 | 11≈ 7 | 14°59 | 11°22 | 18 8 40 | 7 ∺ 12 | 23°12 | 15 8 8 | 15°51 | 4°48 | 22 8 45 | T 2 |
| W 3 | 22 48 59 | 10°30'54 | 28°38 | 28° 6 | 26°41 | 11° 3 | 15° 3 | 11°28 | 18°40 | 7°11 | 23°14 | 15° 0 | 15°47 | 4°55 | 22°44 | W 3 |
| T 4 | 22 52 55 | 11°29'11 | 10 Ω 35 | 27°41 | 27°42 | 11° 0 | 15° 7 | 11°35 | 18°39 | 7° 9 | 23°15 | 14°49 | 15°44 | 5° 1 | 22°44 | T 4 |
| F 5 | 22 56 52 | 12°27'31 | 22°28 | 27°10 | 28°43 | 10°57 | 15°11 | 11°42 | 18°39 | 7° 8 | 23°16 | 14°38 | 15°41 | 5° 8 | 22°43 | F 5 |
| S 6 | 23 0 49 | 13°25'52 | 4 Mp 20 | 26°32 | 29°43 | 10°55 | 15°16 | 11°48 | 18°38 | 7° 6 | 23°17 | 14°26 | 15°38 | 5°15 | 22°43 | S 6 |
| S 7 | 23 4 45 | 14°24'15 | 16°12 | 25°48 | 0 M .42 | 10°54 | 15°21 | 11°55 | 18°38 | 7° 4 | 23°18 | 14°15 | 15°35 | 5°21 | 22°42 | S 7 |
| M 8 | 23 8 42 | 15°22'40 | 28° 5 | 24°59 | 1°42 | 10°D54 | 15°26 | 12° 2 | 18°37 | 7° 3 | 23°19 | 14° 5 | 15°31 | 5°28 | 22°42 | M 8 |
| T 9 | 23 12 38 | 16°21'07 | 10 ♀ 1 | 24° 5 | 2°41 | 10°55 | 15°31 | 12° 9 | 18°36 | 7° 1 | 23°20 | 13°57 | 15°28 | 5°35 | 22°41 | T 9 |
| W10 | 23 16 35 | 17°19'36 | 22° 2 | 23° 7 | 3°40 | 10°56 | 15°36 | 12°16 | 18°35 | 6°59 | 23°22 | 13°52 | 15°25 | 5°42 | 22°40 | W10 |
| T 11 | 23 20 31 | 18°18'06 | 4 M .11 | 22° 6 | 4°38 | 10°59 | 15°41 | 12°23 | 18°35 | 6°58 | 23°23 | 13°50 | 15°22 | 5°48 | 22°39 | T 11 |
| F 12 | 23 24 28 | 19°16'38 | 16°31 | 21° 3 | 5°36 | 11° 2 | 15°47 | 12°29 | 18°34 | 6°56 | 23°24 | 13°D50 | 15°19 | 5°55 | 22°38 | F 12 |
| S 13 | 23 28 24 | 20°15'12 | 29° 5 | 20° 0 | 6°33 | 11° 6 | 15°53 | 12°36 | 18°33 | 6°55 | 23°25 | 13°50 | 15°16 | 6° 2 | 22°37 | S 13 |
| S 14 | 23 32 21 | 21°13'48 | 11 .7 58 | 18°58 | 7°30 | 11°11 | 15°59 | 12°43 | 18°32 | 6°53 | 23°26 | 13°51 | 15°12 | 6° 8 | 22°36 | S 14 |
| M15 | 23 36 18 | 22°12'25 | 25°12 | 17°59 | 8°27 | 11°16 | 16° 5 | 12°50 | 18°31 | 6°51 | 23°27 | 13°R52 | 15° 9 | 6°15 | 22°35 | M15 |
| T 16 | 23 40 14 | 23°11'04 | 8 궁 51 | 17° 4 | 9°23 | 11°23 | 16°11 | 12°57 | 18°30 | 6°50 | 23°27 | 13°50 | 15° 6 | 6°22 | 22°34 | T 16 |
| W17 | 23 44 11 | 24° 9'45 | 22°57 | 16°15 | 10°18 | 11°30 | 16°17 | 13° 5 | 18°28 | 6°48 | 23°28 | 13°47 | 15° 3 | 6°29 | 22°33 | W17 |
| T 18 | 23 48 7 | 25° 8'27 | 7≈29 | 15°33 | 11°13 | 11°38 | 16°24 | 13°12 | 18°27 | 6°47 | 23°29 | 13°42 | 15° 0 | 6°35 | 22°32 | T 18 |
| F 19 | 23 52 4 | 26° 7'11 | 22°23 | 14°59 | 12° 8 | 11°46 | 16°30 | 13°19 | 18°26 | 6°45 | 23°30 | 13°36 | 14°56 | 6°42 | 22°30 | F 19 |
| S 20 | 23 56 0 | 27° 5'57 | 7) €32 | 14°34 | 13° 2 | 11°56 | 16°37 | 13°26 | 18°25 | 6°44 | 23°31 | 13°29 | 14°53 | 6°49 | 22°29 | S 20 |
| S 21 | 23 59 57 | 28° 4'44 | 22°46 | 14°18 | 13°55 | 12° 6 | 16°44 | 13°33 | 18°23 | 6°42 | 23°32 | 13°22 | 14°50 | 6°55 | 22°27 | S 21 |
| M22 | 0 3 53 | 29° 3'34 | 7 Ƴ 54 | 14°D13 | 14°48 | 12°17 | 16°51 | 13°40 | 18°22 | 6°41 | 23°33 | 13°16 | 14°47 | 7° 2 | 22°26 | M22 |
| T 23 | 0 7 50 | 0 ♀ 2'25 | 22°47 | 14°17 | 15°40 | 12°28 | 16°58 | 13°47 | 18°21 | 6°39 | 23°33 | 13°13 | 14°44 | 7° 9 | 22°24 | T 23 |
| W24 | 0 11 47 | 1° 1'19 | 7 8 18 | 14°32 | 16°32 | 12°40 | 17° 6 | 13°54 | 18°19 | 6°38 | 23°34 | 13°D11 | 14°41 | 7°16 | 22°23 | W24 |
| T 25 | 0 15 43 | 2° 0'15 | 21°21 | 14°57 | 17°23 | 12°53 | 17°13 | 14° 2 | 18°18 | 6°36 | 23°35 | 13°11 | 14°37 | 7°22 | 22°21 | T 25 |
| F 26 | 0 19 40 | 2°59'14 | 4 ∏ 57 | 15°31 | 18°13 | 13° 7 | 17°21 | 14° 9 | 18°16 | 6°35 | 23°36 | 13°12 | 14°34 | 7°29 | 22°19 | F 26 |
| S 27 | 0 23 36 | 3°58'14 | 18° 6 | 16°14 | 19° 3 | 13°21 | 17°29 | 14°16 | 18°15 | 6°33 | 23°36 | 13°14 | 14°31 | 7°36 | 22°17 | S 27 |
| S 28 | 0 27 33 | 4°57'17 | 0951 | 17° 6 | 19°51 | 13°36 | 17°37 | 14°23 | 18°13 | 6°32 | 23°37 | 13°R15 | 14°28 | 7°42 | 22°16 | S 28 |
| M29 | 0 31 29 | 5°56'23 | 13°17 | 18° 5 | 20°40 | 13°51 | 17°45 | 14°31 | 18°12 | 6°31 | 23°38 | 13°15 | 14°25 | 7°49 | 22°14 | M29 |
| T 30 | 0 35 26 | 6 ♀ 55'30 | 25928 | 19 m /11 | 21 m 27 | 14≈ 7 | 17 ×7 53 | 14 ≏ 38 | 18 8 10 | 6 ∺ 29 | 23938 | 13 8 13 | 14822 | 7 m 56 | 22812 | T 30 |

Delta T = 19.55 sec

Greg. Calendar

OCTOBER 1687 GC 00:00 UT

| Day | Sid.t | 0 | D | Ψ | Q- | ♂ [™] | 4 | ħ | Å | ¥ | Р | ß | ಬ | Ç | ķ | Day |
|------|---------|-------------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|---------------|--------|--------|-------|----------------|--------|------|
| W 1 | 0 39 22 | 7 ≙ 54'40 | 7Ω 28 | 20 m 24 | 22 M 13 | 14≈24 | 18 % 1 | 14 Ω 45 | 18°R 8 | 6°R28 | 23939 | 13°R10 | 14818 | 8Mp 3 | 22°R10 | W 1 |
| T 2 | 0 43 19 | 8°53'53 | 19°23 | 21°42 | 22°59 | 14°42 | 18°10 | 14°53 | 18 8 6 | 6 ¥ 26 | 23°40 | 138 5 | 14°15 | 8° 9 | 228 8 | T 2 |
| F 3 | 0 47 16 | 9°53'07 | 1 m 14 | 23° 4 | 23°44 | 14°59 | 18°18 | 15° 0 | 18° 5 | 6°25 | 23°40 | 12°59 | 14°12 | 8°16 | 22° 5 | F 3 |
| S 4 | 0 51 12 | 10°52'24 | 13° 5 | 24°31 | 24°27 | 15°18 | 18°27 | 15° 7 | 18° 3 | 6°24 | 23°41 | 12°53 | 14° 9 | 8°23 | 22° 3 | S 4 |
| S 5 | 0 55 9 | 11°51'43 | 24°59 | 26° 2 | 25°10 | 15°37 | 18°36 | 15°15 | 18° 1 | 6°23 | 23°41 | 12°47 | 14° 6 | 8°29 | 22° 1 | S 5 |
| M 6 | 0 59 5 | 12°51'03 | 6 ₽ 58 | 27°35 | 25°52 | 15°57 | 18°45 | 15°22 | 17°59 | 6°21 | 23°42 | 12°42 | 14° 2 | 8°36 | 21°59 | M 6 |
| T 7 | 1 3 2 | 13°50'27 | 19° 3 | 29°11 | 26°33 | 16°17 | 18°54 | 15°29 | 17°57 | 6°20 | 23°42 | 12°39 | 13°59 | 8°43 | 21°56 | T 7 |
| W 8 | 1 6 58 | 14°49'52 | 1 M .16 | 0 요 49 | 27°13 | 16°37 | 19° 3 | 15°37 | 17°55 | 6°19 | 23°43 | 12°37 | 13°56 | 8°49 | 21°54 | W 8 |
| T 9 | 1 10 55 | 15°49'19 | 13°38 | 2°29 | 27°51 | 16°59 | 19°12 | 15°44 | 17°53 | 6°18 | 23°43 | 12°D36 | 13°53 | 8°56 | 21°52 | T 9 |
| F 10 | 1 14 51 | 16°48'48 | 26°11 | 4° 9 | 28°28 | 17°20 | 19°22 | 15°51 | 17°51 | 6°17 | 23°43 | 12°37 | 13°50 | 9° 3 | 21°49 | F 10 |
| S 11 | 1 18 48 | 17°48'19 | 8 .₹ 57 | 5°51 | 29° 5 | 17°43 | 19°31 | 15°59 | 17°49 | 6°15 | 23°44 | 12°38 | 13°47 | 9°10 | 21°47 | S 11 |
| S 12 | 1 22 44 | 18°47'52 | 21°58 | 7°33 | 29°39 | 18° 5 | 19°41 | 16° 6 | 17°47 | 6°14 | 23°44 | 12°40 | 13°43 | 9°16 | 21°44 | S 12 |
| M13 | 1 26 41 | 19°47'26 | 5 ਰ 16 | 9°16 | 0 才 13 | 18°29 | 19°51 | 16°13 | 17°45 | 6°13 | 23°44 | 12°41 | 13°40 | 9°23 | 21°42 | M13 |
| T 14 | 1 30 38 | 20°47'03 | 18°52 | 10°59 | 0°45 | 18°52 | 20° 1 | 16°21 | 17°43 | 6°12 | 23°45 | 12°R42 | 13°37 | 9°30 | 21°39 | T 14 |
| W15 | 1 34 34 | 21°46'41 | 2≈49 | 12°41 | 1°16 | 19°16 | 20°11 | 16°28 | 17°41 | 6°11 | 23°45 | 12°41 | 13°34 | 9°36 | 21°36 | W15 |
| T 16 | 1 38 31 | 22°46'21 | 17° 5 | 14°24 | 1°45 | 19°41 | 20°21 | 16°35 | 17°39 | 6°10 | 23°45 | 12°40 | 13°31 | 9°43 | 21°33 | T 16 |
| F 17 | 1 42 27 | 23°46'02 | 1 ∺ 38 | 16° 7 | 2°13 | 20° 6 | 20°31 | 16°42 | 17°36 | 6° 9 | 23°45 | 12°38 | 13°28 | 9°50 | 21°31 | F 17 |
| S 18 | 1 46 24 | 24°45'45 | 16°24 | 17°50 | 2°39 | 20°31 | 20°41 | 16°50 | 17°34 | 6° 8 | 23°46 | 12°36 | 13°24 | 9°57 | 21°28 | S 18 |
| S 19 | 1 50 20 | 25°45'30 | 1 Υ 16 | 19°32 | 3° 3 | 20°57 | 20°52 | 16°57 | 17°32 | 6° 7 | 23°46 | 12°34 | 13°21 | 10° 3 | 21°25 | S 19 |
| M20 | 1 54 17 | 26°45'17 | 16° 7 | 21°14 | 3°25 | 21°23 | 21° 2 | 17° 4 | 17°30 | 6° 6 | 23°46 | 12°32 | 13°18 | 10°10 | 21°22 | M20 |
| T 21 | 1 58 13 | 27°45'05 | 0 8 49 | 22°55 | 3°46 | 21°50 | 21°13 | 17°12 | 17°27 | 6° 5 | 23°46 | 12°31 | 13°15 | 10°17 | 21°19 | T 21 |
| W22 | 2 2 10 | 28°44'56 | 15°14 | 24°36 | 4° 5 | 22°17 | 21°24 | 17°19 | 17°25 | 6° 5 | 23°46 | 12°D30 | 13°12 | 10°23 | 21°16 | W22 |
| T 23 | 2 6 7 | 29°44'49 | 29°18 | 26°16 | 4°22 | 22°44 | 21°34 | 17°26 | 17°23 | 6° 4 | 23°46 | 12°31 | 13° 8 | 10°30 | 21°13 | T 23 |
| F 24 | 2 10 3 | 0 IL 44'44 | 12 Ⅱ 57 | 27°56 | 4°36 | 23°12 | 21°45 | 17°33 | 17°20 | 6° 3 | 23°46 | 12°32 | 13° 5 | 10°37 | 21°10 | F 24 |
| S 25 | 2 14 0 | 1°44'41 | 26°12 | 29°36 | 4°49 | 23°40 | 21°56 | 17°40 | 17°18 | 6° 2 | 23°R46 | 12°33 | 13° 2 | 10°44 | 21° 7 | S 25 |
| S 26 | 2 17 56 | 2°44'40 | 995 3 | 1 M .15 | 5° 0 | 24° 8 | 22° 7 | 17°48 | 17°15 | 6° 1 | 23°46 | 12°34 | 12°59 | 10°50 | 21° 4 | S 26 |
| M27 | 2 21 53 | 3°44'42 | 21°33 | 2°54 | 5° 8 | 24°37 | 22°18 | 17°55 | 17°13 | 6° 1 | 23°46 | 12°34 | 12°56 | 10°57 | 21° 1 | M27 |
| T 28 | 2 25 49 | 4°44'45 | 3 Ω 47 | 4°32 | 5°15 | 25° 6 | 22°30 | 18° 2 | 17°11 | 6° 0 | 23°46 | 12°R35 | 12°53 | 11° 4 | 20°58 | T 28 |
| W29 | 2 29 46 | 5°44'51 | 15°49 | 6°10 | 5°19 | 25°35 | 22°41 | 18° 9 | 17° 8 | 5°59 | 23°46 | 12°35 | 12°49 | 11°10 | 20°55 | W29 |
| T 30 | 2 33 42 | 6°44'58 | 27°43 | 7°47 | 5°R20 | 26° 5 | 22°52 | 18°16 | 17° 6 | 5°59 | 23°46 | 12°34 | 12°46 | 11°17 | 20°52 | T 30 |
| F 31 | 2 37 39 | 7 M 45'08 | 9 m 34 | 9 m 24 | 5 ₹ 20 | 26≈35 | 23 × 4 | 18 ≏ 23 | 17 8 3 | 5 ¥ 58 | 239546 | 12834 | 12843 | 11 M 24 | 20849 | F 31 |

Delta T = 19.51 sec

NOVEMBER 1687 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)Å(| ¥ | В | ß | v | ţ | ę, | Day |
|------------|-------------------|----------------------|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|----------------|------------|
| S 1 | 2 41 36 | 8ML45'20 | 21 Mp 26 | 11 M 0 | 5°R17 | 27≈ 5 | 23 × 16 | 18 ≏ 30 | 17°R 1 | 5°R58 | 23°R46 | 12°R33 | 12840 | 11 m 30 | 20°R46 | S 1 |
| S 2 | 2 45 32 | 9°45'34 | 3 ₾ 23 | 12°36 | 5 ₹ 11 | 27°35 | 23°27 | 18°37 | 16 8 58 | 5) 57 | 239545 | 12832 | 12°37 | 11°37 | 20842 | S 2 |
| M 3 | 2 49 29 | 10°45'50 | 15°28 | 14°12 | 5° 3 | 28° 6 | 23°39 | 18°44 | 16°56 | 5°57 | 23°45 | 12°32 | 12°33 | 11°44 | 20°39 | M 3 |
| T 4 | 2 53 25 | 11°46'07 | 27°43 | 15°47 | 4°53 | 28°37 | 23°51 | 18°51 | 16°53 | 5°56 | 23°45 | 12°32 | 12°30 | 11°51 | 20°36 | T 4 |
| W 5 T 6 | 2 57 22 3 1 18 | 12°46'27 13°46'48 | 10 M .11 22°51 | 17°22 18°57 | 4°40 4°25 | 29° 8 29°40 | 24° 3 24°15 | 18°58 19°5 | 16°51 16°48 | 5°56 5°55 | 23°45 23°44 | 12°32 12°32 | 12°27 12°24 | 11°57 12° 4 | 20°33 20°30 | W 5 T 6 |
| T 6 F 7 | 3 5 1 18 | 13°46'48 14°47'11 | 5 × 745 | 20°31 | 4° 23 | 0) 12 | 24°13 | 19° 3 | 16°48 16°46 | 5°55 | 23°44 23°44 | 12°32 12°32 | 12°24 12°21 | 12° 4 | 20°30 20°26 | F 7 |
| S 8 | 3 9 11 | 15°47'11 | 18°53 | 20° 5 | 3°47 | 0°44 | 24°39 | 19°12 | 16°43 | 5°55 | 23°44 | 12°32 | 12°18 | 12°17 | 20°23 | S 8 |
| S 9 | 3 13 8 | 16°48'02 | 2 ප 14 | 23°38 | 3°25 | 1°16 | 24°51 | 19°26 | 16°41 | 5°54 | 23°43 | 12°31 | 12°14 | 12°24 | 20°20 | S 9 |
| M10 | 3 17 5 | 17°48'30 | 15°47 | 25°12 | 3° 1 | 1°48 | 25° 3 | 19°32 | 16°38 | 5°54 | 23°43 | 12°31 | 12°11 | 12°31 | 20°16 | M10 |
| T 11 | 3 21 1 | 18°48'59 | 29°33 | 26°45 | 2°35 | 2°21 | 25°16 | 19°39 | 16°36 | 5°54 | 23°42 | 12°30 | 12° 8 | 12°38 | 20°13 | T 11 |
| W12 | 3 24 58 | 19°49'29 | 13≈30 | 28°18 | 2° 7 | 2°54 | 25°28 | 19°46 | 16°33 | 5°54 | 23°42 | 12°D30 | 12° 5 | 12°44 | 20°10 | W12 |
| T 13 | 3 28 54 | 20°50'00 | 27°37 | 29°50 | 1°37 | 3°27 | 25°41 | 19°52 | 16°31 | 5°54 | 23°42 | 12°30 | 12° 2 | 12°51 | 20° 7 | T 13 |
| F 14 | 3 32 51 | 21°50'33 | 11 米 53 | 1 ₹ 23 | 1° 5 | 4° 1 | 25°53 | 19°59 | 16°28 | 5°53 | 23°41 | 12°30 | 11°59 | 12°58 | 20° 3 | F 14 |
| S 15 | 3 36 47 | 22°51'07 | 26°14 | 2°55 | 0°32 | 4°34 | 26° 6 | 20° 6 | 16°26 | 5°53 | 23°41 | 12°31 | 11°55 | 13° 4 | 20° 0 | S 15 |
| S 16 | 3 40 44 | 23°51'42 | 10 Y 38 | 4°27 | 29 M 58 | 5° 8 | 26°18 | 20°12 | 16°23 | 5°53 | 23°40 | 12°32 | 11°52 | 13°11 | 19°57 | S 16 |
| M17 | 3 44 40 | 24°52'18 | 25° 0 | 5°58 | 29°23 | 5°42 | 26°31 | 20°19 | 16°21 | 5°D53 | 23°39 | 12°33 | 11°49 | 13°18 | 19°53 | M17 |
| T 18 | 3 48 37 | 25°52'56 | 9 8 16 | 7°30 | 28°47 | 6°16 | 26°44 | 20°25 | 16°19 | 5°53 | 23°39 | 12°R33 | 11°46 | 13°24 | 19°50 | T 18 |
| W19 | 3 52 34 | 26°53'35 | 23°22 | 9° 1 | 28°11 | 6°50 | 26°57 | 20°32 | 16°16 | 5°53 | 23°38 | 12°33 | 11°43 | 13°31 | 19°47 | W19 |
| T 20 | 3 56 30 | 27°54'16 | 7 Ⅱ 13 | 10°32 | 27°34 | 7°25 | 27° 9 | 20°38 | 16°14 | 5°53 | 23°38 | 12°32 | 11°39 | 13°38 | 19°44 | T 20 |
| F 21 | 4 0 27 | 28°54'57 | 20°45 | 12° 3 | 26°58 | 7°59 | 27°22 | 20°44 | 16°11 | 5°54 | 23°37 | 12°30 | 11°36 | 13°45 | 19°40 | F 21 |
| S 22 | 4 4 23 | 29°55'41 | 3958 | 13°33 | 26°22 | 8°34 | 27°35 | 20°50 | 16° 9 | 5°54 | 23°36 | 12°28 | 11°33 | 13°51 | 19°37 | S 22 |
| S 23 | 4 8 20 | 0 ₮ 56'26 | 16°50 | 15° 3 | 25°46 | 9° 9 | 27°48 | 20°57 | 16° 6 | 5°54 | 23°36 | 12°25 | 11°30 | 13°58 | 19°34 | S 23 |
| M24 | 4 12 16 | 1°57'12 | 29°23 | 16°33 | 25°11 | 9°44 | 28° 1 | 21° 3 | 16° 4 | 5°54 | 23°35 | 12°22 | 11°27 | 14° 5 | 19°31 | M24 |
| T 25 | 4 16 13 | 2°58'00 | 11 \O 39 | 18° 2 | 24°37 | 10°19 | 28°14 | 21° 9 | 16° 2 | 5°54 | 23°34 | 12°20 | 11°24 | 14°11 | 19°28 | T 25 |
| W26 | 4 20 10 | 3°58'49 | 23°43 | 19°32 | 24° 5 | 10°55 | 28°28 | 21°15 | 15°59 | 5°55 | 23°33 | 12°18 | 11°20 | 14°18 | 19°24 | W26 |
| T 27 | 4 24 6 | 4°59'40 | 5 m)38 | 21° 0 | 23°34 | 11°30 | 28°41 | 21°21 | 15°57 | 5°55 | 23°33 | 12°D18 | 11°17 | 14°25 | 19°21 | T 27 |
| F 28 | 4 28 3 | 6° 0'32 | 17°29 29°21 | 22°28 | 23° 4 | 12° 6 12°42 | 28°54 29° 7 | 21°27 | 15°55 | 5°55 | 23°32 | 12°18 12°20 | 11°14 11°11 | 14°31 | 19°18 19°15 | F 28 |
| S 29 | 4 31 59 | 7° 1'25 | - | 23°56 | 22°37 | | | 21°33 | 15°52 | 5°56 | 23°31 | _ | | 14°38 | | S 29 |
| S 30 | 4 35 56 | 8 才 2'20 | 11 ≏ 19 | 25 × 22 | 22 M 11 | 13 米 17 | 29 × 21 | 21 ≏ 39 | 15 8 50 | 5 ¥ 56 | 23930 | 12822 | 118 8 | 14 M)45 | 19 8 12 | S 30 |

Delta T = 19.47 sec

Greg. Calendar

| DECEMBER 1687 GC | 00:00 UT |
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| DECEMBER 1007 GC | 00.00 01 |

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)Å(| # | В | u | ß | Ç | ę, | Day |
|------|---------|------------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|--------|--------|---------------|----------------|----------------|------|
| M 1 | 4 39 52 | 9 ₹ 3'16 | 23 ≏ 28 | 26 × 748 | 21°R47 | 13 米 53 | 29 × 34 | 21 ≏ 44 | 15°R48 | 5) 57 | 23°R29 | 12823 | 118 5 | 14 Mp 52 | 19°R 9 | M 1 |
| T 2 | 4 43 49 | 10° 4'13 | 5 M 50 | 28°13 | 21M26 | 14°30 | 29°47 | 21°50 | 15 8 46 | 5°57 | 239528 | 12°24 | 11° 1 | 14°58 | 19 8 6 | T 2 |
| W 3 | 4 47 45 | 11° 5'12 | 18°30 | 29°37 | 21° 7 | 15° 6 | 0ਰ 1 | 21°56 | 15°43 | 5°58 | 23°27 | 12°R24 | 10°58 | 15° 5 | 19° 3 | W 3 |
| T 4 | 4 51 42 | 12° 6'12 | 1 才 28 | 1る 0 | 20°50 | 15°42 | 0°14 | 22° 1 | 15°41 | 5°58 | 23°27 | 12°23 | 10°55 | 15°12 | 19° 0 | T 4 |
| F 5 | 4 55 39 | 13° 7'12 | 14°45 | 2°21 | 20°36 | 16°19 | 0°28 | 22° 7 | 15°39 | 5°59 | 23°26 | 12°20 | 10°52 | 15°18 | 18°57 | F 5 |
| S 6 | 4 59 35 | 14° 8'14 | 28°19 | 3°40 | 20°24 | 16°55 | 0°41 | 22°12 | 15°37 | 6° 0 | 23°25 | 12°16 | 10°49 | 15°25 | 18°54 | S 6 |
| S 7 | 5 3 32 | 15° 9'16 | 12る8 | 4°57 | 20°15 | 17°32 | 0°55 | 22°18 | 15°35 | 6° 0 | 23°24 | 12°10 | 10°45 | 15°32 | 18°51 | S 7 |
| M 8 | 5 7 28 | 16°10'19 | 26° 8 | 6°11 | 20° 8 | 18° 9 | 1° 9 | 22°23 | 15°33 | 6° 1 | 23°23 | 12° 5 | 10°42 | 15°38 | 18°48 | M 8 |
| T 9 | 5 11 25 | 17°11'23 | 10≈16 | 7°23 | 20° 3 | 18°46 | 1°22 | 22°28 | 15°31 | 6° 2 | 23°22 | 12° 0 | 10°39 | 15°45 | 18°46 | T 9 |
| W10 | 5 15 21 | 18°12'27 | 24°27 | 8°31 | 20°D 1 | 19°23 | 1°36 | 22°33 | 15°29 | 6° 2 | 23°21 | 11°56 | 10°36 | 15°52 | 18°43 | W10 |
| T 11 | 5 19 18 | 19°13'32 | 8 米 39 | 9°36 | 20° 2 | 20° 0 | 1°50 | 22°38 | 15°27 | 6° 3 | 23°20 | 11°54 | 10°33 | 15°59 | 18°40 | T 11 |
| F 12 | 5 23 14 | 20°14'36 | 22°49 | 10°36 | 20° 5 | 20°38 | 2° 3 | 22°43 | 15°25 | 6° 4 | 23°19 | 11°D53 | 10°30 | 16° 5 | 18°37 | F 12 |
| S 13 | 5 27 11 | 21°15'41 | 6 Ƴ 54 | 11°31 | 20°10 | 21°15 | 2°17 | 22°48 | 15°23 | 6° 5 | 23°17 | 11°54 | 10°26 | 16°12 | 18°35 | S 13 |
| S 14 | 5 31 8 | 22°16'47 | 20°55 | 12°20 | 20°18 | 21°52 | 2°31 | 22°53 | 15°21 | 6° 6 | 23°16 | 11°56 | 10°23 | 16°19 | 18°32 | S 14 |
| M15 | 5 35 4 | 23°17'53 | 4 8 50 | 13° 3 | 20°27 | 22°30 | 2°45 | 22°58 | 15°19 | 6° 7 | 23°15 | 11°R57 | 10°20 | 16°25 | 18°30 | M15 |
| T 16 | 5 39 1 | 24°18'59 | 18°37 | 13°38 | 20°39 | 23° 7 | 2°58 | 23° 3 | 15°18 | 6°8 | 23°14 | 11°57 | 10°17 | 16°32 | 18°27 | T 16 |
| W17 | 5 42 57 | 25°20'05 | 2 I I15 | 14° 4 | 20°54 | 23°45 | 3°12 | 23° 7 | 15°16 | 6° 9 | 23°13 | 11°55 | 10°14 | 16°39 | 18°25 | W17 |
| T 18 | 5 46 54 | 26°21'12 | 15°43 | 14°22 | 21°10 | 24°23 | 3°26 | 23°12 | 15°14 | 6°10 | 23°12 | 11°51 | 10°11 | 16°45 | 18°22 | T 18 |
| F 19 | 5 50 50 | 27°22'19 | 28°58 | 14°R29 | 21°28 | 25° 1 | 3°40 | 23°17 | 15°12 | 6°11 | 23°11 | 11°45 | 10° 7 | 16°52 | 18°20 | F 19 |
| S 20 | 5 54 47 | 28°23'27 | 119558 | 14°25 | 21°49 | 25°38 | 3°54 | 23°21 | 15°11 | 6°12 | 23°10 | 11°36 | 10° 4 | 16°59 | 18°18 | S 20 |
| S 21 | 5 58 43 | 29°24'35 | 24°43 | 14°10 | 22°11 | 26°16 | 4° 7 | 23°25 | 15° 9 | 6°13 | 23° 8 | 11°27 | 10° 1 | 17° 6 | 18°15 | S 21 |
| M22 | 6 2 40 | 0 ට 25'43 | 7Ω 12 | 13°43 | 22°35 | 26°54 | 4°21 | 23°30 | 15° 8 | 6°14 | 23° 7 | 11°18 | 9°58 | 17°12 | 18°13 | M22 |
| T 23 | 6 6 3 7 | 1°26'52 | 19°27 | 13° 4 | 23° 1 | 27°32 | 4°35 | 23°34 | 15° 6 | 6°15 | 23° 6 | 11°10 | 9°55 | 17°19 | 18°11 | T 23 |
| W24 | 6 10 33 | 2°28'01 | 1 m p 30 | 12°14 | 23°29 | 28°10 | 4°49 | 23°38 | 15° 5 | 6°17 | 23° 5 | 11° 3 | 9°51 | 17°26 | 18° 9 | W24 |
| T 25 | 6 14 30 | 3°29'11 | 13°25 | 11°13 | 23°58 | 28°49 | 5° 3 | 23°42 | 15° 3 | 6°18 | 23° 4 | 10°58 | 9°48 | 17°32 | 18° 7 | T 25 |
| F 26 | 6 18 26 | 4°30'21 | 25°15 | 10° 4 | 24°29 | 29°27 | 5°17 | 23°46 | 15° 2 | 6°19 | 23° 2 | 10°56 | 9°45 | 17°39 | 18° 5 | F 26 |
| S 27 | 6 22 23 | 5°31'31 | 7 º 6 | 8°49 | 25° 2 | 0 Υ 5 | 5°31 | 23°49 | 15° 0 | 6°20 | 23° 1 | 10°D55 | 9°42 | 17°46 | 18° 3 | S 27 |
| S 28 | 6 26 19 | 6°32'42 | 19° 2 | 7°29 | 25°36 | 0°43 | 5°45 | 23°53 | 14°59 | 6°22 | 23° 0 | 10°56 | 9°39 | 17°52 | 18° 1 | S 28 |
| M29 | 6 30 16 | 7°33'53 | 1 M .10 | 6° 7 | 26°11 | 1°22 | 5°58 | 23°57 | 14°58 | 6°23 | 22°59 | 10°57 | 9°36 | 17°59 | 17°59 | M29 |
| T 30 | 6 34 12 | 8°35'05 | 13°34 | 4°47 | 26°48 | 2° 0 | 6°12 | 24° 0 | 14°57 | 6°24 | 22°57 | 10°R57 | 9°32 | 18° 6 | 17°57 | T 30 |
| W31 | 6 38 9 | 9 ප 36'16 | 26M18 | 3 る 30 | 27 M 26 | 2 Υ 39 | 6 පි 26 | 24 ♀ 4 | 14 8 55 | 6 ∺ 26 | 22956 | 10856 | 9 8 29 | 18 M 12 | 17 8 55 | W31 |

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JANUARY 1688 GC 00:00 UT

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|------|---------|-------------------|-----------------|----------------|-----------------|----------------|----------------|---------------|----------------|----------------|--------|---------------|---------------|-----------------|----------------|------|
| T 1 | 6 42 6 | 10 ට 37'28 | 9 ∡ 126 | 2°R19 | 28M 5 | 3Υ 17 | 6 පි 40 | 24 <u>₽</u> 7 | 14°R54 | 6) €27 | 22°R55 | 10°R52 | 9 8 26 | 18 m)19 | 17°R54 | T 1 |
| F 2 | 6 46 2 | 11°38'40 | 22°59 | 1 る 16 | 28°46 | 3°56 | 6°54 | 24°11 | 14 8 53 | 6°29 | 22953 | 10846 | 9°23 | 18°26 | 17 8 52 | F 2 |
| S 3 | 6 49 59 | 12°39'52 | 6 ප 55 | 0°21 | 29°27 | 4°34 | 7° 8 | 24°14 | 14°52 | 6°30 | 22°52 | 10°38 | 9°20 | 18°33 | 17°51 | S 3 |
| S 4 | 6 53 55 | 13°41'03 | 21°11 | 29 × 36 | 0 ₮ 10 | 5°13 | 7°22 | 24°17 | 14°51 | 6°32 | 22°51 | 10°27 | 9°17 | 18°39 | 17°49 | S 4 |
| M 5 | 6 57 52 | 14°42'15 | 5≈41 | 29° 1 | 0°54 | 5°52 | 7°36 | 24°20 | 14°50 | 6°33 | 22°50 | 10°17 | 9°13 | 18°46 | 17°48 | M 5 |
| T 6 | 7 1 48 | 15°43'26 | 20°18 | 28°36 | 1°39 | 6°31 | 7°50 | 24°23 | 14°49 | 6°35 | 22°48 | 10° 6 | 9°10 | 18°53 | 17°46 | T 6 |
| W 7 | 7 5 45 | 16°44'36 | 4) (55 | 28°20 | 2°25 | 7° 9 | 8° 3 | 24°25 | 14°49 | 6°37 | 22°47 | 9°58 | 9° 7 | 18°59 | 17°45 | W 7 |
| T 8 | 7 9 42 | 17°45'46 | 19°25 | 28°D14 | 3°12 | 7°48 | 8°17 | 24°28 | 14°48 | 6°38 | 22°46 | 9°53 | 9° 4 | 19° 6 | 17°44 | T 8 |
| F 9 | 7 13 38 | 18°46'55 | 3 ℃ 43 | 28°17 | 3°59 | 8°27 | 8°31 | 24°31 | 14°47 | 6°40 | 22°44 | 9°50 | 9° 1 | 19°13 | 17°43 | F 9 |
| S 10 | 7 17 35 | 19°48'03 | 17°49 | 28°27 | 4°48 | 9° 6 | 8°45 | 24°33 | 14°46 | 6°42 | 22°43 | 9°D49 | 8°57 | 19°19 | 17°42 | S 10 |
| S 11 | 7 21 31 | 20°49'11 | 1840 | 28°45 | 5°37 | 9°45 | 8°59 | 24°36 | 14°46 | 6°43 | 22°42 | 9°49 | 8°54 | 19°26 | 17°41 | S 11 |
| M12 | 7 25 28 | 21°50'18 | 15°18 | 29°10 | 6°28 | 10°24 | 9°12 | 24°38 | 14°45 | 6°45 | 22°40 | 9°R49 | 8°51 | 19°33 | 17°40 | M12 |
| T 13 | 7 29 24 | 22°51'24 | 28°43 | 29°41 | 7°19 | 11° 3 | 9°26 | 24°40 | 14°45 | 6°47 | 22°39 | 9°47 | 8°48 | 19°39 | 17°39 | T 13 |
| W14 | 7 33 21 | 23°52'29 | 11 Ⅱ 57 | 0 궁 18 | 8°10 | 11°42 | 9°40 | 24°42 | 14°44 | 6°49 | 22°38 | 9°44 | 8°45 | 19°46 | 17°38 | W14 |
| T 15 | 7 37 17 | 24°53'33 | 25° 0 | 0°59 | 9° 3 | 12°21 | 9°53 | 24°44 | 14°44 | 6°50 | 22°36 | 9°37 | 8°42 | 19°53 | 17°37 | T 15 |
| F 16 | 7 41 14 | 25°54'37 | 7 9 53 | 1°46 | 9°56 | 13° 0 | 10° 7 | 24°46 | 14°43 | 6°52 | 22°35 | 9°27 | 8°38 | 20° 0 | 17°37 | F 16 |
| S 17 | 7 45 11 | 26°55'40 | 20°35 | 2°36 | 10°50 | 13°39 | 10°21 | 24°48 | 14°43 | 6°54 | 22°34 | 9°14 | 8°35 | 20° 6 | 17°36 | S 17 |
| S 18 | 7 49 7 | 27°56'42 | 3 N 6 | 3°30 | 11°44 | 14°18 | 10°34 | 24°50 | 14°43 | 6°56 | 22°32 | 9° 1 | 8°32 | 20°13 | 17°35 | S 18 |
| M19 | 7 53 4 | 28°57'44 | 15°25 | 4°27 | 12°39 | 14°57 | 10°48 | 24°51 | 14°43 | 6°58 | 22°31 | 8°46 | 8°29 | 20°20 | 17°35 | M19 |
| T 20 | 7 57 0 | 29°58'44 | 27°34 | 5°28 | 13°35 | 15°36 | 11° 1 | 24°53 | 14°43 | 7° 0 | 22°30 | 8°33 | 8°26 | 20°26 | 17°34 | T 20 |
| W21 | 8 0 57 | 0≈59'44 | 9 ₥ 34 | 6°31 | 14°31 | 16°15 | 11°15 | 24°54 | 14°42 | 7° 1 | 22°28 | 8°22 | 8°23 | 20°33 | 17°34 | W21 |
| T 22 | 8 4 53 | 2° 0'44 | 21°26 | 7°37 | 15°28 | 16°55 | 11°29 | 24°55 | 14°42 | 7° 3 | 22°27 | 8°13 | 8°19 | 20°40 | 17°34 | T 22 |
| F 23 | 8 8 50 | 3° 1'42 | 3 ≏ 15 | 8°44 | 16°25 | 17°34 | 11°42 | 24°57 | 14°D42 | 7° 5 | 22°26 | 8° 7 | 8°16 | 20°46 | 17°34 | F 23 |
| S 24 | 8 12 46 | 4° 2'40 | 15° 4 | 9°54 | 17°23 | 18°13 | 11°55 | 24°58 | 14°42 | 7° 7 | 22°25 | 8° 4 | 8°13 | 20°53 | 17°33 | S 24 |
| S 25 | 8 16 43 | 5° 3'37 | 26°58 | 11° 6 | 18°22 | 18°52 | 12° 9 | 24°59 | 14°43 | 7° 9 | 22°23 | 8° 3 | 8°10 | 21° 0 | 17°33 | S 25 |
| M26 | 8 20 40 | 6° 4'33 | 9 ™ 3 | 12°20 | 19°20 | 19°31 | 12°22 | 25° 0 | 14°43 | 7°11 | 22°22 | 8° 3 | 8° 7 | 21° 6 | 17°D33 | M26 |
| T 27 | 8 24 36 | 7° 5'29 | 21°23 | 13°35 | 20°20 | 20°11 | 12°35 | 25° 0 | 14°43 | 7°13 | 22°21 | 8° 2 | 8° 3 | 21°13 | 17°33 | T 27 |
| W28 | 8 28 33 | 8° 6'24 | 4 才 5 | 14°52 | 21°19 | 20°50 | 12°49 | 25° 1 | 14°43 | 7°15 | 22°19 | 8° 1 | 8° 0 | 21°20 | 17°33 | W28 |
| T 29 | 8 32 29 | 9° 7'18 | 17°13 | 16°10 | 22°19 | 21°29 | 13° 2 | 25° 2 | 14°44 | 7°17 | 22°18 | 7°57 | 7°57 | 21°27 | 17°34 | T 29 |
| F 30 | 8 36 26 | 10° 8'12 | 0 궁 49 | 17°30 | 23°20 | 22° 8 | 13°15 | 25° 2 | 14°44 | 7°20 | 22°17 | 7°50 | 7°54 | 21°33 | 17°34 | F 30 |
| S 31 | 8 40 22 | 11≈ 9'04 | 14 궁 54 | 18 ට 51 | 24 × 121 | 22 Y 48 | 13 る 28 | 25 ♀ 2 | 14844 | 7 ∺ 22 | 22916 | 7 8 40 | 7 8 51 | 21 Mp 40 | 17 8 34 | S 31 |

Delta T = 19.38 sec Greg. Calendar

FEBRUARY 1688 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ [™] | 4 | ħ |)Å(| # | Р | ₽. | v | Ç | ę, | Day |
|------|----------|-------------------|------------------|-----------------|-----------------------------|----------------|----------------|----------------|----------------|---------------|--------|---------------|---------------|----------|----------------|------|
| S 1 | 8 44 19 | 12≈ 9'55 | 29 궁 24 | 20 궁 13 | 25 × ⁷ 22 | 23 Y 27 | 13 る 41 | 25 ♀ 3 | 14845 | 7 ∺ 24 | 22°R14 | 7°R29 | 7 8 48 | 21 Mp 47 | 17 8 35 | S 1 |
| M 2 | 8 48 15 | 13°10'46 | 14≈15 | 21°36 | 26°24 | 24° 6 | 13°54 | 25° 3 | 14°45 | 7°26 | 229513 | 7 8 17 | 7°44 | 21°53 | 17°35 | M 2 |
| T 3 | 8 52 12 | 14°11'34 | 29°16 | 23° 0 | 27°26 | 24°46 | 14° 7 | 25°R 3 | 14°46 | 7°28 | 22°12 | 7° 5 | 7°41 | 22° 0 | 17°36 | T 3 |
| W 4 | 8 56 9 | 15°12'22 | 14) (19 | 24°25 | 28°28 | 25°25 | 14°20 | 25° 3 | 14°47 | 7°30 | 22°11 | 6°56 | 7°38 | 22° 7 | 17°36 | W 4 |
| T 5 | 9 0 5 | 16°13'08 | 29°13 | 25°52 | 29°31 | 26° 4 | 14°33 | 25° 2 | 14°47 | 7°32 | 22°10 | 6°49 | 7°35 | 22°13 | 17°37 | T 5 |
| F 6 | 9 4 2 | 17°13'52 | 13 Y 51 | 27°19 | 0 궁 34 | 26°43 | 14°46 | 25° 2 | 14°48 | 7°34 | 22° 8 | 6°45 | 7°32 | 22°20 | 17°38 | F 6 |
| S 7 | 9 7 58 | 18°14'35 | 28° 9 | 28°47 | 1°37 | 27°23 | 14°59 | 25° 2 | 14°49 | 7°37 | 22° 7 | 6°43 | 7°29 | 22°27 | 17°39 | S 7 |
| S 8 | 9 11 55 | 19°15'16 | 12 8 6 | 0≈16 | 2°41 | 28° 2 | 15°12 | 25° 1 | 14°50 | 7°39 | 22° 6 | 6°43 | 7°25 | 22°33 | 17°39 | S 8 |
| M 9 | 9 15 51 | 20°15'55 | 25°42 | 1°46 | 3°44 | 28°42 | 15°24 | 25° 0 | 14°50 | 7°41 | 22° 5 | 6°43 | 7°22 | 22°40 | 17°40 | M 9 |
| T 10 | 9 19 48 | 21°16'33 | 8耳59 | 3°17 | 4°48 | 29°21 | 15°37 | 25° 0 | 14°51 | 7°43 | 22° 4 | 6°42 | 7°19 | 22°47 | 17°41 | T 10 |
| W11 | 9 23 44 | 22°17'09 | 21°59 | 4°49 | 5°53 | 0 8 0 | 15°49 | 24°59 | 14°52 | 7°45 | 22° 3 | 6°38 | 7°16 | 22°53 | 17°42 | W11 |
| T 12 | 9 27 41 | 23°17'43 | 49546 | 6°22 | 6°57 | 0°40 | 16° 2 | 24°58 | 14°53 | 7°48 | 22° 2 | 6°32 | 7°13 | 23° 0 | 17°44 | T 12 |
| F 13 | 9 31 38 | 24°18'15 | 17°20 | 7°55 | 8° 2 | 1°19 | 16°14 | 24°57 | 14°55 | 7°50 | 22° 0 | 6°23 | 7° 9 | 23° 7 | 17°45 | F 13 |
| S 14 | 9 35 34 | 25°18'46 | 29°45 | 9°30 | 9° 7 | 1°58 | 16°27 | 24°56 | 14°56 | 7°52 | 21°59 | 6°12 | 7° 6 | 23°13 | 17°46 | S 14 |
| S 15 | 9 39 31 | 26°19'15 | 12 0 0 | 11° 5 | 10°12 | 2°38 | 16°39 | 24°55 | 14°57 | 7°54 | 21°58 | 5°59 | 7° 3 | 23°20 | 17°47 | S 15 |
| M16 | 9 43 27 | 27°19'42 | 24° 8 | 12°42 | 11°18 | 3°17 | 16°51 | 24°53 | 14°58 | 7°56 | 21°57 | 5°45 | 7° 0 | 23°27 | 17°49 | M16 |
| T 17 | 9 47 24 | 28°20'08 | 6Mp 8 | 14°19 | 12°24 | 3°56 | 17° 3 | 24°52 | 14°59 | 7°59 | 21°56 | 5°33 | 6°57 | 23°34 | 17°50 | T 17 |
| W18 | 9 51 20 | 29°20'31 | 18° 3 | 15°57 | 13°30 | 4°35 | 17°15 | 24°50 | 15° 1 | 8° 1 | 21°55 | 5°22 | 6°54 | 23°40 | 17°52 | W18 |
| T 19 | 9 55 17 | 0 ∺ 20'54 | 29°53 | 17°37 | 14°36 | 5°15 | 17°27 | 24°49 | 15° 2 | 8° 3 | 21°54 | 5°14 | 6°50 | 23°47 | 17°53 | T 19 |
| F 20 | 9 59 13 | 1°21'14 | 11 ≏ 41 | 19°17 | 15°42 | 5°54 | 17°39 | 24°47 | 15° 4 | 8° 5 | 21°53 | 5° 8 | 6°47 | 23°54 | 17°55 | F 20 |
| S 21 | 10 3 10 | 2°21'34 | 23°30 | 20°58 | 16°49 | 6°33 | 17°51 | 24°45 | 15° 5 | 8° 8 | 21°52 | 5° 5 | 6°44 | 24° 0 | 17°57 | S 21 |
| S 22 | 10 7 7 | 3°21'51 | 5 M 24 | 22°40 | 17°55 | 7°13 | 18° 3 | 24°43 | 15° 7 | 8°10 | 21°51 | 5°D 5 | 6°41 | 24° 7 | 17°59 | S 22 |
| M23 | 10 11 3 | 4°22'08 | 17°28 | 24°24 | 19° 2 | 7°52 | 18°15 | 24°41 | 15° 8 | 8°12 | 21°50 | 5° 5 | 6°38 | 24°14 | 18° 1 | M23 |
| T 24 | 10 15 0 | 5°22'22 | 29°46 | 26° 8 | 20° 9 | 8°31 | 18°26 | 24°39 | 15°10 | 8°15 | 21°49 | 5°R 6 | 6°35 | 24°20 | 18° 2 | T 24 |
| W25 | 10 18 56 | 6°22'36 | 12 × 23 | 27°53 | 21°17 | 9°11 | 18°38 | 24°37 | 15°12 | 8°17 | 21°49 | 5° 6 | 6°31 | 24°27 | 18° 4 | W25 |
| T 26 | 10 22 53 | 7°22'47 | 25°25 | 29°39 | 22°24 | 9°50 | 18°49 | 24°34 | 15°13 | 8°19 | 21°48 | 5° 4 | 6°28 | 24°34 | 18° 6 | T 26 |
| F 27 | 10 26 49 | 8°22'58 | 8 궁 55 | 1) (27 | 23°32 | 10°29 | 19° 1 | 24°32 | 15°15 | 8°21 | 21°47 | 5° 0 | 6°25 | 24°40 | 18° 9 | F 27 |
| S 28 | 10 30 46 | 9°23'06 | 22°55 | 3°15 | 24°39 | 11° 8 | 19°12 | 24°30 | 15°17 | 8°24 | 21°46 | 4°54 | 6°22 | 24°47 | 18°11 | S 28 |
| S 29 | 10 34 42 | 10 ¥ 23'14 | 7≈24 | 5 ¥ 5 | 25 궁 47 | 11848 | 19 ට 23 | 24 ≙ 27 | 15 8 19 | 8 ∺ 26 | 219545 | 4846 | 6 8 19 | 24 Mp 54 | 18813 | S 29 |

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|-------------|-------------------------------|--------------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|---------------|-----------------|----------------|-------------|
| M 1 | 10 38 39 | 11 米 23'19 | 22 ≈ 17 | 6 ¥ 55 | 26 る 55 | 12 8 27 | 19 る 34 | 24°R24 | 15 8 21 | 8 ¥ 28 | 21°R44 | 4°R38 | 6 8 15 | 25 m) 0 | 18 8 15 | M 1 |
| T 2 | 10 42 36 | 12°23'22 | 7 ∺ 27 | 8°47 | 28°3 | 13° 6 | 19°45 | 24 Ω 22 | 15°23 | 8°31 | 21©44 | 4 8 30 | 6°12 | 25° 7 | 18°17 | T 2 |
| W 3 | 10 46 32 | 13°23'24 | 22°43 | 10°40 | 29°11 | 13°45 | 19°56 | 24°19 | 15°25 | 8°33 | 21°43 | 4°23 | 6° 9 | 25°14 | 18°20 | W 3 |
| T 4 | 10 50 29 | 14°23'23 | 7 Y 55 | 12°33 | 0≈20 | 14°25 | 20° 7 | 24°16 | 15°27 | 8°35 | 21°42 | 4°18 | 6° 6 | 25°20 | 18°22 | T 4 |
| F 5 | 10 54 25 | 15°23'21 | 22°52 | 14°28 | 1°28 | 15° 4 | 20°18 | 24°13 | 15°29 | 8°37 | 21°41 | 4°15 | 6° 3 | 25°27 | 18°25 | F 5 |
| S 6 | 10 58 22 | 16°23'16 | 7 8 28 | 16°24 | 2°37 | 15°43 | 20°28 | 24°10 | 15°31 | 8°40 | 21°41 | 4°D15 | 6° 0 | 25°34 | 18°27 | S 6 |
| S 7 | 11 2 18 11 6 15 | 17°23'09 | 21°39 | 18°20 | 3°46 | 16°22 | 20°39 | 24° 7 | 15°33 | 8°42 | 21°40 | 4°16 | 5°56 | 25°40 | 18°30 | S 7 |
| M 8 | | 18°23'00 | 5 Ⅲ 25 | 20°18 | 4°54 | 17° 1 | 20°49 | 24° 3 | 15°35 | 8°44 | 21°39 | 4°17 | 5°53 | 25°47 | 18°33 | M 8 |
| T 9 | 11 10 11 | 19°22'49 | 18°45 | 22°16 | 6° 3 | 17°41 | 21° 0 | 24° 0 | 15°37 | 8°46 | 21°39 | 4°R18 | 5°50 | 25°54 | 18°35 | T 9 |
| W10 | 11 14 8 | 20°22'36 | 1 © 44 | 24°15 | 7°12 | 18°20 | 21°10 | 23°57 | 15°40 | 8°49 | 21°38 | 4°17 | 5°47 | 26° 0 | 18°38 | W10 |
| T 11 | 11 18 5 | 21°22'20 | 14°25 | 26°14 | 8°21 | 18°59 | 21°20 | 23°53 | 15°42 | 8°51 | 21°38 | 4°14 | 5°44 | 26° 7 | 18°41 | T 11 |
| F 12 | 11 22 1 | 22°22'02 | 26°50 | 28°14 | 9°31 | 19°38 | 21°30 | 23°50 | 15°44 | 8°53 | 21°37 | 4°10 | 5°41 | 26°14 | 18°44 | F 12 |
| S 13 | 11 25 58 | 23°21'41 | 9 Ω 3 | 0 ° 13 | 10°40 | 20°17 | 21°40 | 23°46 | 15°47 | 8°55 | 21°37 | 4° 4 | 5°37 | 26°20 | 18°47 | S 13 |
| S 14 | 11 29 54 | 24°21'19 | 21° 8 | 2°13 | 11°49 | 20°56 | 21°50 | 23°42 | 15°49 | 8°58 | 21°36 | 3°56 | 5°34 | 26°27 | 18°50 | S 14 |
| M15 | 11 33 51 | 25°20'54 | 3 Mp 6 | 4°12 | 12°59 | 21°35 | 21°59 | 23°39 | 15°52 | 9°0 | 21°36 | 3°49 | 5°31 | 26°34 | 18°53 | M15 |
| T 16 | 11 37 47 | 26°20'27 | 14°59 | 6°11 | 14° 8 | 22°15 | 22° 9 | 23°35 | 15°54 | 9° 2 | 21°35 | 3°42 | 5°28 | 26°41 | 18°56 | T 16 |
| W17 | 11 41 44 | 27°19'58 | 26°49 | 8° 8 | 15°18 | 22°54 | 22°18 | 23°31 | 15°57 | 9° 4 | 21°35 | 3°36 | 5°25 | 26°47 | 18°59 | W17 |
| T 18 | 11 45 40 | 28°19'26 | 8 <u>0</u> 38 | 10° 5 | 16°28 | 23°33 | 22°28 | 23°27 | 15°59 | 9° 6 | 21°34 | 3°31 | 5°21 | 26°54 | 19° 2 | T 18 |
| F 19 | 11 49 37 | 29°18'53 | 20°28 | 11°59 | 17°38 | 24°12 | 22°37 | 23°23 | 16° 2 | 9° 8 | 21°34 | 3°29 | 5°18 | 27° 1 | 19° 5 | F 19 |
| S 20 | 11 53 34 | 0 Y 18'18 | 2 11 22 | 13°52 | 18°48 | 24°51 | 22°46 | 23°19 | 16° 5 | 9°11 | 21°33 | 3°D28 | 5°15 | 27° 7 | 19° 8 | S 20 |
| S 21 | 11 57 30 | 1°17'41 | 14°21 | 15°41 | 19°58 | 25°30 | 22°55 | 23°15 | 16° 7 | 9°13 | 21°33 | 3°28 | 5°12 | 27°14 | 19°12 | S 21 |
| M22 | 12 1 27 | 2°17'02 | 26°30 | 17°28 | 21° 8 | 26° 9 | 23° 4 | 23°11 | 16°10 | 9°15 | 21°33 | 3°30 | 5° 9 | 27°21 | 19°15 | M22 |
| T 23 W24 | 12 1 27 12 5 23 12 9 20 | 3°16'22 4°15'39 | 8 √ 51 21°30 | 19°12 20°51 | 22°18 23°28 | 26°48 27°27 | 23°12 23°21 | 23° 7 23° 3 | 16°13 16°15 | 9°17 9°19 | 21°33 21°32 | 3°32 3°33 | 5° 6 5° 2 | 27°27 27°34 | 19°18 19°22 | T 23 W24 |
| T 25 | 12 13 16 | 5°14'55 | 4 ප් 29 | 22°27 | 24°38 | 28° 6 | 23°29 | 22°59 | 16°18 | 9°21 | 21°32 | 3°R34 | 4°59 | 27°41 | 19°25 | T 25 |
| F 26 | 12 17 13 | 6°14'09 | 17°52 | 23°58 | 25°49 | 28°45 | 23°38 | 22°54 | 16°21 | 9°23 | 21°32 | 3°33 | 4°56 | 27°47 | 19°29 | F 26 |
| S 27 | 12 21 9 | 7°13'22 | 1 ≈ 42 | 25°24 | 26°59 | 29°24 | 23°46 | 22°50 | 16°24 | 9°25 | 21°32 | 3°31 | 4°53 | 27°54 | 19°32 | S 27 |
| S 28 | 12 25 6 | 8°12'32 | 15°58 | 26°44 | 28°10 | 0 II 2 | 23°54 | 22°46 | 16°27 | 9°28 | 21°31 | 3°29 | 4°50 | 28° 1 | 19°36 | S 28 |
| M29 | 12 29 3 | 9°11'41 | 0 ∺ 39 | 27°59 | 29°20 | 0°41 | 24° 2 | 22°41 | 16°30 | 9°30 | 21°31 | 3°25 | 4°46 | 28° 7 | 19°40 | M29 |
| T 30 | 12 32 59 | 10°10'47 | 15°39 | 29° 9 | 0 H 31 | 1°20 | 24°10 | 22°37 | 16°33 | 9°32 | 21°31 | 3°22 | 4°43 | 28°14 | 19°43 | T 30 |
| W31 | 12 36 56 | 11 ° 9'52 | 0 Υ 50 | 0812 | 1) 41 | 1 II 59 | 24 정 17 | 22 2 32 | 16 8 36 | 9) 34 | 219931 | 3 8 19 | 4840 | 28 m /21 | 19 8 47 | W31 |

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| T 1 | 12 40 52 | 12 Y 8'55 | 16 Y 2 | 1810 | 2) 52 | 2Д38 | 24 궁 25 | 22°R28 | 16 8 39 | 9 ∺ 36 | 21°R31 | 3°R18 | 4 8 37 | 28 Mp 27 | 19 8 51 | T 1 |
| F 2 | 12 44 49 | 13° 7'56 | 1 8 5 | 2° 1 | 4° 3 | 3°17 | 24°32 | 22 <u>0</u> 23 | 16°42 | 9°38 | 219931 | 3°D17 | 4°34 | 28°34 | 19°54 | F 2 |
| S 3 | 12 48 45 | 14° 6'54 | 15°52 | 2°45 | 5°14 | 3°56 | 24°39 | 22°19 | 16°45 | 9°40 | 21°D31 | 3 8 17 | 4°31 | 28°41 | 19°58 | S 3 |
| S 4 | 12 52 42 | 15° 5'51 | 0 П 15 | 3°23 | 6°25 | 4°35 | 24°47 | 22°14 | 16°48 | 9°42 | 21°31 | 3°18 | 4°27 | 28°47 | 20° 2 | S 4 |
| M 5 | 12 56 38 | 16° 4'45 | 14°13 | 3°55 | 7°36 | 5°13 | 24°53 | 22°10 | 16°51 | 9°43 | 21°31 | 3°20 | 4°24 | 28°54 | 20° 6 | M 5 |
| T 6 | 13 0 35 | 17° 3'37 | 27°43 | 4°20 | 8°47 | 5°52 | 25° 0 | 22° 5 | 16°54 | 9°45 | 21°31 | 3°21 | 4°21 | 29° 1 | 20°10 | T 6 |
| W 7 | 13 4 32 | 18° 2'27 | 109548 | 4°38 | 9°58 | 6°31 | 25° 7 | 22° 1 | 16°57 | 9°47 | 21°31 | 3°21 | 4°18 | 29° 7 | 20°14 | W 7 |
| T 8 | 13 8 28 | 19° 1'14 | 23°31 | 4°50 | 11° 9 | 7°10 | 25°13 | 21°56 | 17° 0 | 9°49 | 21°31 | 3°R22 | 4°15 | 29°14 | 20°18 | T 8 |
| F 9 | 13 12 25 | 19°59'59 | 5 Ω 55 | 4°R55 | 12°20 | 7°49 | 25°20 | 21°51 | 17° 3 | 9°51 | 21°31 | 3°21 | 4°12 | 29°21 | 20°22 | F 9 |
| S 10 | 13 16 21 | 20°58'42 | 18° 5 | 4°54 | 13°31 | 8°27 | 25°26 | 21°47 | 17° 7 | 9°53 | 21°32 | 3°20 | 4° 8 | 29°27 | 20°26 | S 10 |
| S 11 | 13 20 18 | 21°57'23 | 0Mp 4 | 4°47 | 14°42 | 9° 6 | 25°32 | 21°42 | 17°10 | 9°55 | 21°32 | 3°18 | 4° 5 | 29°34 | 20°30 | S 11 |
| M12 | 13 24 14 | 22°56'01 | 11°57 | 4°34 | 15°53 | 9°45 | 25°38 | 21°38 | 17°13 | 9°56 | 21°32 | 3°17 | 4° 2 | 29°41 | 20°34 | M12 |
| T 13 | 13 28 11 | 23°54'37 | 23°46 | 4°16 | 17° 4 | 10°23 | 25°43 | 21°33 | 17°16 | 9°58 | 21°32 | 3°15 | 3°59 | 29°47 | 20°38 | T 13 |
| W14 | 13 32 7 | 24°53'11 | 5 ≏ 35 | 3°53 | 18°16 | 11° 2 | 25°49 | 21°28 | 17°20 | 10° 0 | 21°32 | 3°14 | 3°56 | 29°54 | 20°42 | W14 |
| T 15 | 13 36 4 | 25°51'43 | 17°26 | 3°26 | 19°27 | 11°41 | 25°54 | 21°24 | 17°23 | 10° 2 | 21°33 | 3°13 | 3°52 | 0 호 1 | 20°46 | T 15 |
| F 16 | 13 40 0 | 26°50'13 | 29°22 | 2°54 | 20°38 | 12°19 | 25°59 | 21°19 | 17°26 | 10° 3 | 21°33 | 3°D13 | 3°49 | 0° 7 | 20°50 | F 16 |
| S 17 | 13 43 57 | 27°48'42 | 11 M 24 | 2°19 | 21°50 | 12°58 | 26° 5 | 21°15 | 17°30 | 10° 5 | 21°33 | 3°13 | 3°46 | 0°14 | 20°55 | S 17 |
| S 18 | 13 47 54 | 28°47'08 | 23°34 | 1°42 | 23° 1 | 13°37 | 26° 9 | 21°10 | 17°33 | 10° 7 | 21°34 | 3°14 | 3°43 | 0°21 | 20°59 | S 18 |
| M19 | 13 51 50 | 29°45'33 | 5 ₹ 55 | 1° 3 | 24°12 | 14°15 | 26°14 | 21° 6 | 17°36 | 10° 8 | 21°34 | 3°14 | 3°40 | 0°27 | 21° 3 | M19 |
| T 20 | 13 55 47 | 0 8 43'56 | 1 <u>8</u> °28 | 0°23 | 25°24 | 14°54 | 26°19 | 21° 1 | 17°40 | 10°10 | 21°34 | 3°14 | 3°37 | 0°34 | 21° 7 | T 20 |
| W21 | 13 59 43 | 1°42'17 | 1 ਰ 16 | 29 Ƴ 42 | 26°35 | 15°32 | 26°23 | 20°57 | 17°43 | 10°12 | 21°35 | 3°14 | 3°33 | 0°41 | 21°12 | W21 |
| T 22 | 14 3 40 | 2°40'37 | 14°20 | 29° 2 | 27°47 | 16°11 | 26°27 | 20°52 | 17°46 | 10°13 | 21°35 | 3°15 | 3°30 | 0°47 | 21°16 | T 22 |
| F 23 | 14 7 36 | 3°38'55 | 27°43 | 28°23 | 28°59 | 16°50 | 26°31 | 20°48 | 17°50 | 10°15 | 21°36 | 3°15 | 3°27 | 0°54 | 21°20 | F 23 |
| S 24 | 14 11 33 | 4°37'12 | 11≈27 | 27°46 | 0 Υ 10 | 17°28 | 26°35 | 20°43 | 17°53 | 10°16 | 21°36 | 3°15 | 3°24 | 1° 1 | 21°25 | S 24 |
| S 25 | 14 15 29 | 5°35'27 | 25°31 | 27°11 | 1°22 | 18° 7 | 26°39 | 20°39 | 17°57 | 10°18 | 21°37 | 3°15 | 3°21 | 1° 7 | 21°29 | S 25 |
| M26 | 14 19 26 | 6°33'41 | 9) 55 | 26°38 | 2°34 | 18°45 | 26°42 | 20°35 | 18° 0 | 10°19 | 21°37 | 3°15 | 3°18 | 1°14 | 21°33 | M26 |
| T 27 | 14 23 23 | 7°31'53 | 24°34 | 26°10 | 3°45 | 19°24 | 26°46 | 20°30 | 18° 3 | 10°21 | 21°38 | 3°15 | 3°14 | 1°21 | 21°38 | T 27 |
| W28 | 14 27 19 | 8°30'04 | 9 Υ 26 | 25°45 | 4°57 | 20° 2 | 26°49 | 20°26 | 18° 7 | 10°22 | 21°39 | 3°16 | 3°11 | 1°27 | 21°42 | W28 |
| T 29 | 14 31 16 | 9°28'13 | 24°22 | 25°24 | 6° 9 | 20°41 | 26°52 | 20°22 | 18°10 | 10°23 | 21°39 | 3°16 | 3° 8 | 1°34 | 21°46 | T 29 |
| F 30 | 14 35 12 | 10826'20 | 9 8 15 | 25 ℃ 7 | 7 Υ 21 | 21 Ⅱ 19 | 26 궁 55 | 20 ≏ 18 | 18 8 14 | 10 ∺ 25 | 219540 | 3°R16 | 3 8 5 | 1 ≏ 41 | 21 8 51 | F 30 |

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| S 1 | 14 39 9 | 11824'26 | 23 8 57 | 24°R55 | 8 Ƴ 32 | 21耳58 | 26 ප 57 | 20°R13 | 18 8 17 | 10 ∺ 26 | 219541 | 3°R16 | 3 8 2 | 1 ≙ 47 | 21 8 55 | S 1 |
| S 2 | 14 43 5 | 12°22'30 | 8 Ⅲ 21 | 24 Y 47 | 9°44 | 22°36 | 27° 0 | 20 º 9 | 18°21 | 10°27 | 21°41 | 3 8 15 | 2°58 | 1°54 | 22° 0 | S 2 |
| M 3 | 14 47 2 | 13°20'33 | 22°23 | 24°D45 | 10°56 | 23°14 | 27° 2 | 20° 5 | 18°24 | 10°29 | 21°42 | 3°14 | 2°55 | 2° 1 | 22° 4 | M 3 |
| T 4 | 14 50 58 | 14°18'33 | 69 0 | 24°46 | 12° 8 | 23°53 | 27° 4 | 20° 1 | 18°28 | 10°30 | 21°43 | 3°12 | 2°52 | 2° 7 | 22° 9 | T 4 |
| W 5 | 14 54 55 | 15°16'32 | 19°11 | 24°53 | 13°20 | 24°31 | 27° 6 | 19°57 | 18°31 | 10°31 | 21°44 | 3°11 | 2°49 | 2°14 | 22°13 | W 5 |
| T 6 | 14 58 52 | 16°14'29 | 1 Ω 59 | 25° 4 | 14°32 | 25°10 | 27° 7 | 19°53 | 18°35 | 10°32 | 21°44 | 3°10 | 2°46 | 2°21 | 22°18 | T 6 |
| F 7 | 15 2 48 | 17°12'24 | 14°26 | 25°20 | 15°44 | 25°48 | 27° 9 | 19°50 | 18°38 | 10°34 | 21°45 | 3°D10 | 2°43 | 2°27 | 22°22 | F 7 |
| S 8 | 15 6 45 | 18°10'17 | 26°36 | 25°40 | 16°56 | 26°26 | 27°10 | 19°46 | 18°42 | 10°35 | 21°46 | 3°10 | 2°39 | 2°34 | 22°26 | S 8 |
| S 9 | 15 10 41 | 19° 8'09 | 8 m)35 | 26° 4 | 18° 8 | 27° 5 | 27°11 | 19°42 | 18°45 | 10°36 | 21°47 | 3°11 | 2°36 | 2°41 | 22°31 | S 9 |
| M10 | 15 14 38 | 20° 5'58 | 20°26 | 26°33 | 19°20 | 27°43 | 27°12 | 19°39 | 18°49 | 10°37 | 21°48 | 3°12 | 2°33 | 2°47 | 22°35 | M10 |
| T 11 | 15 18 34 | 21° 3'46 | 2 ≏ 15 | 27° 6 | 20°32 | 28°21 | 27°13 | 19°35 | 18°52 | 10°38 | 21°49 | 3°13 | 2°30 | 2°54 | 22°40 | T 11 |
| W12 | 15 22 31 | 22° 1'33 | 14° 5 | 27°43 | 21°44 | 29° 0 | 27°13 | 19°31 | 18°56 | 10°39 | 21°49 | 3°15 | 2°27 | 3° 1 | 22°44 | W12 |
| T 13 | 15 26 27 | 22°59'17 | 26° 0 | 28°23 | 22°56 | 29°38 | 27°14 | 19°28 | 18°59 | 10°40 | 21°50 | 3°16 | 2°24 | 3° 7 | 22°49 | T 13 |
| F 14 | 15 30 24 | 23°57'01 | 8M 3 | 29° 8 | 24° 8 | 09୍ତୀ6 | 27°R14 | 19°25 | 19° 3 | 10°41 | 21°51 | 3°R16 | 2°20 | 3°14 | 22°53 | F 14 |
| S 15 | 15 34 21 | 24°54'42 | 20°17 | 29°56 | 25°20 | 0°54 | 27°14 | 19°21 | 19° 6 | 10°42 | 21°52 | 3°15 | 2°17 | 3°21 | 22°58 | S 15 |
| S 16 | 15 38 17 | 25°52'23 | 2 , 742 | 0 8 47 | 26°32 | 1°33 | 27°14 | 19°18 | 19°10 | 10°43 | 21°53 | 3°13 | 2°14 | 3°27 | 23° 2 | S 16 |
| M17 | 15 42 14 | 26°50'02 | 15°21 | 1°42 | 27°44 | 2°11 | 27°13 | 19°15 | 19°13 | 10°44 | 21°54 | 3°10 | 2°11 | 3°34 | 23° 7 | M17 |
| T 18 | 15 46 10 | 27°47'40 | 28°13 | 2°40 | 28°57 | 2°49 | 27°13 | 19°12 | 19°16 | 10°44 | 21°55 | 3° 6 | 2° 8 | 3°41 | 23°11 | T 18 |
| W19 | 15 50 7 | 28°45'17 | 11 궁 19 | 3°42 | 0 8 9 | 3°27 | 27°12 | 19° 9 | 19°20 | 10°45 | 21°56 | 3° 2 | 2° 4 | 3°47 | 23°16 | W19 |
| T 20 | 15 54 3 | 29°42'53 | 24°39 | 4°46 | 1°21 | 4° 6 | 27°11 | 19° 6 | 19°23 | 10°46 | 21°58 | 2°59 | 2° 1 | 3°54 | 23°20 | T 20 |
| F 21 | 15 58 0 | 0 Ⅲ 40′28 | 8≈12 | 5°54 | 2°33 | 4°44 | 27°10 | 19° 3 | 19°27 | 10°47 | 21°59 | 2°56 | 1°58 | 4° 1 | 23°25 | F 21 |
| S 22 | 16 1 57 | 1°38'02 | 21°59 | 7° 4 | 3°45 | 5°22 | 27° 8 | 19° 0 | 19°30 | 10°47 | 22° 0 | 2°55 | 1°55 | 4° 7 | 23°29 | S 22 |
| S 23 | 16 5 53 | 2°35'35 | 5 ¥ 58 | 8°17 | 4°58 | 6° 0 | 27° 7 | 18°57 | 19°34 | 10°48 | 22° 1 | 2°D54 | 1°52 | 4°14 | 23°34 | S 23 |
| M24 | 16 9 50 | 3°33'07 | 20° 9 | 9°33 | 6°10 | 6°38 | 27° 5 | 18°55 | 19°37 | 10°49 | 22° 2 | 2°55 | 1°49 | 4°21 | 23°38 | M24 |
| T 25 | 16 13 46 | 4°30'39 | 4 Υ30 | 10°52 | 7°22 | 7°16 | 27° 3 | 18°52 | 19°41 | 10°49 | 22° 3 | 2°56 | 1°45 | 4°27 | 23°43 | T 25 |
| W26 | 16 17 43 | 5°28'09 | 18°58 | 12°14 | 8°35 | 7°55 | 27° 1 | 18°50 | 19°44 | 10°50 | 22° 4 | 2°58 | 1°42 | 4°34 | 23°47 | W26 |
| T 27 | 16 21 39 | 6°25'39 | 3 8 29 | 13°38 | 9°47 | 8°33 | 26°59 | 18°48 | 19°47 | 10°51 | 22° 6 | 2°R58 | 1°39 | 4°41 | 23°52 | T 27 |
| F 28 | 16 25 36 | 7°23'08 | 18° 0 | 15° 5 | 10°59 | 9°11 | 26°56 | 18°45 | 19°51 | 10°51 | 22° 7 | 2°57 | 1°36 | 4°47 | 23°56 | F 28 |
| S 29 | 16 29 32 | 8°20'36 | 2∏23 | 16°35 | 12°12 | 9°49 | 26°54 | 18°43 | 19°54 | 10°52 | 22° 8 | 2°55 | 1°33 | 4°54 | 24° 0 | S 29 |
| S 30 | 16 33 29 | 9°18'03 | 16°35 | 18° 7 | 13°24 | 10°27 | 26°51 | 18°41 | 19°57 | 10°52 | 22° 9 | 2°51 | 1°30 | 5° 1 | 24° 5 | S 30 |
| M31 | 16 37 26 | 10 Ⅱ 15'30 | 0929 | 19842 | 14 8 37 | 1199 5 | 26 る 48 | 18 ≏ 39 | 208 1 | 10 ¥ 52 | 22911 | 2 8 45 | 1826 | 5 ≙ 7 | 24 8 9 | M31 |

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|------|----------|-------------------|-----------------|--------|----------------|--------------|----------------|----------------|-------|----------------|--------|---------------|----------------|---------------|----------------|------|
| T 1 | 16 41 22 | 11 Ⅱ 12'55 | 1495 2 | 21820 | 15 8 49 | 119543 | 26°R45 | 18°R37 | 208 4 | 10 ¥ 53 | 229512 | 2°R39 | 1823 | 5 ≏ 14 | 24814 | T 1 |
| W 2 | 16 45 19 | 12°10'19 | 27°13 | 23° 0 | 17° 2 | 12°21 | 26 ප 41 | 18 ≏ 35 | 20° 7 | 10°53 | 22°13 | 2 8 33 | 1°20 | 5°21 | 24°18 | W 2 |
| T 3 | 16 49 15 | 13° 7'43 | 10 N 2 | 24°42 | 18°14 | 12°59 | 26°38 | 18°33 | 20°11 | 10°54 | 22°14 | 2°28 | 1°17 | 5°27 | 24°22 | T 3 |
| F 4 | 16 53 12 | 14° 5'05 | 22°31 | 26°28 | 19°27 | 13°38 | 26°34 | 18°32 | 20°14 | 10°54 | 22°16 | 2°24 | 1°14 | 5°34 | 24°27 | F 4 |
| S 5 | 16 57 8 | 15° 2'26 | 4 Mp 42 | 28°16 | 20°39 | 14°16 | 26°30 | 18°30 | 20°17 | 10°54 | 22°17 | 2°22 | 1°10 | 5°41 | 24°31 | S 5 |
| S 6 | 17 1 5 | 15°59'46 | 16°42 | 0耳 6 | 21°52 | 14°54 | 26°26 | 18°29 | 20°20 | 10°54 | 22°18 | 2°D21 | 1° 7 | 5°47 | 24°35 | S 6 |
| M 7 | 17 5 1 | 16°57'04 | 28°33 | 1°59 | 23° 4 | 15°32 | 26°22 | 18°27 | 20°24 | 10°54 | 22°20 | 2°22 | 1° 4 | 5°54 | 24°40 | M 7 |
| T 8 | 17 8 58 | 17°54'22 | 10 ≏ 23 | 3°54 | 24°17 | 16°10 | 26°18 | 18°26 | 20°27 | 10°55 | 22°21 | 2°23 | 1° 1 | 6° 1 | 24°44 | T 8 |
| W 9 | 17 12 55 | 18°51'40 | 22°14 | 5°51 | 25°29 | 16°48 | 26°13 | 18°25 | 20°30 | 10°55 | 22°23 | 2°24 | 0°58 | 6° 7 | 24°48 | W 9 |
| T 10 | 17 16 51 | 19°48'56 | 4 M _13 | 7°51 | 26°42 | 17°26 | 26° 8 | 18°24 | 20°33 | 10°55 | 22°24 | 2°R25 | 0°55 | 6°14 | 24°52 | T 10 |
| F 11 | 17 20 48 | 20°46'11 | 16°23 | 9°53 | 27°55 | 18° 4 | 26° 3 | 18°23 | 20°36 | 10°55 | 22°25 | 2°24 | 0°51 | 6°21 | 24°56 | F 11 |
| S 12 | 17 24 44 | 21°43'26 | 28°48 | 11°56 | 29° 7 | 18°42 | 25°58 | 18°22 | 20°39 | 10°R55 | 22°27 | 2°21 | 0°48 | 6°27 | 25° 1 | S 12 |
| S 13 | 17 28 41 | 22°40'40 | 11 ~ 29 | 14° 2 | 0Д20 | 19°20 | 25°53 | 18°21 | 20°42 | 10°55 | 22°28 | 2°15 | 0°45 | 6°34 | 25° 5 | S 13 |
| M14 | 17 32 37 | 23°37'54 | 24°27 | 16° 9 | 1°32 | 19°58 | 25°48 | 18°21 | 20°46 | 10°55 | 22°30 | 2° 8 | 0°42 | 6°40 | 25° 9 | M14 |
| T 15 | 17 36 34 | 24°35'07 | 7 궁 42 | 18°18 | 2°45 | 20°36 | 25°42 | 18°20 | 20°49 | 10°55 | 22°31 | 2° 0 | 0°39 | 6°47 | 25°13 | T 15 |
| W16 | 17 40 30 | 25°32'20 | 21°13 | 20°27 | 3°58 | 21°14 | 25°37 | 18°20 | 20°52 | 10°55 | 22°33 | 1°51 | 0°36 | 6°54 | 25°17 | W16 |
| T 17 | 17 44 27 | 26°29'33 | 4≈56 | 22°38 | 5°11 | 21°52 | 25°31 | 18°19 | 20°55 | 10°55 | 22°34 | 1°43 | 0°32 | 7° 0 | 25°21 | T 17 |
| F 18 | 17 48 24 | 27°26'45 | 18°49 | 24°49 | 6°23 | 22°30 | 25°25 | 18°19 | 20°58 | 10°54 | 22°36 | 1°36 | 0°29 | 7° 7 | 25°25 | F 18 |
| S 19 | 17 52 20 | 28°23'57 | 2) (49 | 27° 0 | 7°36 | 23° 8 | 25°19 | 18°19 | 21° 1 | 10°54 | 22°37 | 1°31 | 0°26 | 7°14 | 25°29 | S 19 |
| S 20 | 17 56 17 | 29°21'09 | 16°54 | 29°11 | 8°49 | 23°46 | 25°13 | 18°D19 | 21° 3 | 10°54 | 22°39 | 1°29 | 0°23 | 7°20 | 25°33 | S 20 |
| M21 | 18 0 13 | 09518'22 | 1 Υ 2 | 19522 | 10° 2 | 24°24 | 25° 7 | 18°19 | 21° 6 | 10°54 | 22°40 | 1°D28 | 0°20 | 7°27 | 25°37 | M21 |
| T 22 | 18 4 10 | 1°15'34 | 15°12 | 3°33 | 11°15 | 25° 2 | 25° 1 | 18°19 | 21° 9 | 10°54 | 22°42 | 1°29 | 0°16 | 7°34 | 25°41 | T 22 |
| W23 | 18 8 6 | 2°12'46 | 29°21 | 5°43 | 12°28 | 25°40 | 24°54 | 18°19 | 21°12 | 10°53 | 22°43 | 1°R29 | 0°13 | 7°40 | 25°45 | W23 |
| T 24 | 18 12 3 | 3° 9'58 | 13830 | 7°52 | 13°41 | 26°18 | 24°47 | 18°19 | 21°15 | 10°53 | 22°45 | 1°29 | 0°10 | 7°47 | 25°49 | T 24 |
| F 25 | 18 15 59 | 4° 7'11 | 27°35 | 9°59 | 14°54 | 26°56 | 24°41 | 18°20 | 21°18 | 10°52 | 22°46 | 1°26 | 0° 7 | 7°54 | 25°52 | F 25 |
| S 26 | 18 19 56 | 5° 4'24 | 11 II 33 | 12° 6 | 16° 6 | 27°34 | 24°34 | 18°20 | 21°20 | 10°52 | 22°48 | 1°21 | 0° 4 | 8° 0 | 25°56 | S 26 |
| S 27 | 18 23 53 | 6° 1'36 | 25°22 | 14°11 | 17°19 | 28°11 | 24°27 | 18°21 | 21°23 | 10°52 | 22°50 | 1°13 | 0° 1 | 8° 7 | 26° 0 | S 27 |
| M28 | 18 27 49 | 6°58'49 | 8958 | 16°14 | 18°32 | 28°49 | 24°20 | 18°22 | 21°26 | 10°51 | 22°51 | 1° 4 | 29 Y 57 | 8°14 | 26° 4 | M28 |
| T 29 | 18 31 46 | 7°56'02 | 22°18 | 18°15 | 19°46 | 29°27 | 24°13 | 18°22 | 21°28 | 10°51 | 22°53 | 0°53 | 29°54 | 8°20 | 26° 7 | T 29 |
| W30 | 18 35 42 | 8953'14 | 5 Ω 20 | 209915 | 20 Ⅱ 59 | 0 Ω 5 | 24 궁 6 | 18 ≏ 23 | 21831 | 10 ∺ 50 | 22954 | 0 8 42 | 29 Y 51 | 8 ≏ 27 | 26 8 11 | W30 |

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| T 1 | 18 39 39 | 9950'27 | 18 0 3 | 229513 | 22 I 12 | 0 Ω 43 | 23°R59 | 18 ≏ 24 | 21 8 34 | 10°R50 | 22956 | 0°R32 | 29 Y 48 | 8 ≏ 34 | 26 8 15 | T 1 |
| F 2 | 18 43 35 | 10°47'39 | 0 m 29 | 24° 9 | 23°25 | 1°21 | 23 る 51 | 18°25 | 21°36 | 10) (49 | 22°58 | 0 8 23 | 29°45 | 8°40 | 26°18 | F 2 |
| S 3 | 18 47 32 | 11°44'51 | 12°39 | 26° 4 | 24°38 | 1°59 | 23°44 | 18°27 | 21°39 | 10°48 | 22°59 | 0°17 | 29°42 | 8°47 | 26°22 | S 3 |
| S 4 | 18 51 29 | 12°42'03 | 24°37 | 27°56 | 25°51 | 2°37 | 23°37 | 18°28 | 21°41 | 10°48 | 23° 1 | 0°14 | 29°38 | 8°54 | 26°25 | S 4 |
| M 5 | 18 55 25 | 13°39'15 | 6 ₽ 28 | 29°46 | 27° 4 | 3°15 | 23°29 | 18°29 | 21°44 | 10°47 | 23° 2 | 0°12 | 29°35 | 9° 0 | 26°29 | M 5 |
| T 6 | 18 59 22 | 14°36'27 | 18°17 | 1 N 35 | 28°17 | 3°53 | 23°22 | 18°31 | 21°46 | 10°46 | 23° 4 | 0°D12 | 29°32 | 9° 7 | 26°32 | T 6 |
| W 7 | 19 3 18 | 15°33'39 | OM 9 | 3°21 | 29°31 | 4°31 | 23°14 | 18°32 | 21°49 | 10°45 | 23° 6 | 0°R12 | 29°29 | 9°14 | 26°35 | W 7 |
| T 8 | 19 7 15 | 16°30'51 | 12°10 | 5° 5 | 09544 | 5° 9 | 23° 6 | 18°34 | 21°51 | 10°45 | 23° 7 | 0°12 | 29°26 | 9°20 | 26°39 | T 8 |
| F 9 | 19 11 11 | 17°28'03 | 24°24 | 6°48 | 1°57 | 5°47 | 22°59 | 18°36 | 21°53 | 10°44 | 23° 9 | 0°10 | 29°22 | 9°27 | 26°42 | F 9 |
| S 10 | 19 15 8 | 18°25'15 | 6 ₹ 156 | 8°29 | 3°10 | 6°25 | 22°51 | 18°38 | 21°55 | 10°43 | 23°11 | 0° 5 | 29°19 | 9°34 | 26°45 | S 10 |
| S 11 | 19 19 4 | 19°22'28 | 19°49 | 10° 7 | 4°24 | 7° 3 | 22°43 | 18°40 | 21°58 | 10°42 | 23°12 | 29 Y 58 | 29°16 | 9°40 | 26°48 | S 11 |
| M12 | 19 23 1 | 20°19'40 | 3 る 4 | 11°44 | 5°37 | 7°41 | 22°36 | 18°42 | 22° 0 | 10°41 | 23°14 | 29°49 | 29°13 | 9°47 | 26°52 | M12 |
| T 13 | 19 26 58 | 21°16'54 | 16°40 | 13°19 | 6°50 | 8°19 | 22°28 | 18°44 | 22° 2 | 10°40 | 23°15 | 29°38 | 29°10 | 9°54 | 26°55 | T 13 |
| W14 | 19 30 54 | 22°14'07 | 0≈35 | 14°52 | 8° 4 | 8°57 | 22°20 | 18°46 | 22° 4 | 10°39 | 23°17 | 29°26 | 29° 7 | 10° 0 | 26°58 | W14 |
| T 15 | 19 34 51 | 23°11'21 | 14°44 | 16°23 | 9°17 | 9°34 | 22°12 | 18°49 | 22° 6 | 10°39 | 23°19 | 29°15 | 29° 3 | 10° 7 | 27° 1 | T 15 |
| F 16 | 19 38 47 | 24° 8'36 | 29° 2 | 17°51 | 10°30 | 10°12 | 22° 5 | 18°51 | 22° 8 | 10°38 | 23°20 | 29° 6 | 29° 0 | 10°13 | 27° 4 | F 16 |
| S 17 | 19 42 44 | 25° 5'51 | 13 ∺ 24 | 19°18 | 11°44 | 10°50 | 21°57 | 18°54 | 22°10 | 10°37 | 23°22 | 28°59 | 28°57 | 10°20 | 27° 7 | S 17 |
| S 18 | 19 46 40 | 26° 3'07 | 27°45 | 20°43 | 12°57 | 11°28 | 21°49 | 18°56 | 22°12 | 10°36 | 23°24 | 28°55 | 28°54 | 10°27 | 27° 9 | S 18 |
| M19 | 19 50 37 | 27° 0'24 | 12 ° 1 | 22° 6 | 14°11 | 12° 6 | 21°41 | 18°59 | 22°14 | 10°34 | 23°25 | 28°53 | 28°51 | 10°33 | 27°12 | M19 |
| T 20 | 19 54 33 | 27°57'41 | 26°11 | 23°27 | 15°24 | 12°44 | 21°34 | 19° 2 | 22°16 | 10°33 | 23°27 | 28°53 | 28°48 | 10°40 | 27°15 | T 20 |
| W21 | 19 58 30 | 28°55'00 | 10812 | 24°45 | 16°38 | 13°22 | 21°26 | 19° 5 | 22°18 | 10°32 | 23°29 | 28°52 | 28°44 | 10°47 | 27°18 | W21 |
| T 22 | 20 2 27 | 29°52'20 | 24° 5 | 26° 2 | 17°52 | 14° 0 | 21°18 | 19°8 | 22°20 | 10°31 | 23°30 | 28°51 | 28°41 | 10°53 | 27°20 | T 22 |
| F 23 | 20 6 23 | 0 Ω 49'41 | 7 Ⅱ 50 | 27°16 | 19° 5 | 14°38 | 21°11 | 19°11 | 22°21 | 10°30 | 23°32 | 28°48 | 28°38 | 11° 0 | 27°23 | F 23 |
| S 24 | 20 10 20 | 1°47'03 | 21°25 | 28°28 | 20°19 | 15°16 | 21° 3 | 19°14 | 22°23 | 10°29 | 23°34 | 28°42 | 28°35 | 11° 7 | 27°26 | S 24 |
| S 25 | 20 14 16 | 2°44'27 | 4950 | 29°38 | 21°33 | 15°54 | 20°56 | 19°17 | 22°25 | 10°28 | 23°35 | 28°33 | 28°32 | 11°13 | 27°28 | S 25 |
| M26 | 20 18 13 | 3°41'51 | 18° 3 | 0 m 45 | 22°46 | 16°32 | 20°49 | 19°20 | 22°26 | 10°26 | 23°37 | 28°22 | 28°28 | 11°20 | 27°31 | M26 |
| T 27 | 20 22 9 | 4°39'16 | 1 0 3 | 1°50 | 24° 0 | 17°10 | 20°41 | 19°24 | 22°28 | 10°25 | 23°38 | 28° 9 | 28°25 | 11°27 | 27°33 | T 27 |
| W28 | 20 26 6 | 5°36'41 | 13°50 | 2°52 | 25°14 | 17°48 | 20°34 | 19°27 | 22°30 | 10°24 | 23°40 | 27°56 | 28°22 | 11°33 | 27°35 | W28 |
| T 29 | 20 30 2 | 6°34'08 | 26°21 | 3°51 | 26°27 | 18°26 | 20°27 | 19°31 | 22°31 | 10°23 | 23°42 | 27°45 | 28°19 | 11°40 | 27°38 | T 29 |
| F 30 | 20 33 59 | 7°31'36 | 8 m /38 | 4°48 | 27°41 | 19° 4 | 20°20 | 19°35 | 22°32 | 10°21 | 23°43 | 27°35 | 28°16 | 11°47 | 27°40 | F 30 |
| S 31 | 20 37 56 | 8 Ω 29'04 | 20 m 43 | 5 m 41 | 28955 | 19 Ω 42 | 20 궁 13 | 19 ॒ 38 | 22 8 34 | 10 ∺ 20 | 239545 | 27 Y 27 | 28 Y 13 | 11 ≏ 53 | 27842 | S 31 |

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| S 1 | 20 41 52 | 9 Ω 26'33 | 2 ॒ 38 | 6 m 31 | 0Ω9 | 20Ω20 | 20°R 6 | 19 ≏ 42 | 22 8 35 | 10°R19 | 239546 | 27°R22 | 28 Y 9 | 12 ♀ 0 | 27844 | S 1 |
| M 2 | 20 45 49 | 10°24'03 | 14°27 | 7°19 | 1°23 | 20°58 | 19 る 59 | 19°46 | 22°37 | 10) 17 | 23°48 | 27 Y 20 | 28° 6 | 12° 7 | 27°46 | M 2 |
| T 3 | 20 49 45 | 11°21'34 | 26°15 | 8° 2 | 2°37 | 21°36 | 19°52 | 19°50 | 22°38 | 10°16 | 23°50 | 27°D19 | 28° 3 | 12°13 | 27°48 | T 3 |
| W 4 | 20 53 42 | 12°19'05 | 8M 6 | 8°42 | 3°51 | 22°14 | 19°45 | 19°54 | 22°39 | 10°14 | 23°51 | 27°R20 | 28° 0 | 12°20 | 27°50 | W 4 |
| T 5 | 20 57 38 | 13°16'38 | 20° 6 | 9°18 | 5° 5 | 22°52 | 19°39 | 19°58 | 22°40 | 10°13 | 23°53 | 27°19 | 27°57 | 12°27 | 27°52 | T 5 |
| F 6 | 21 1 35 | 14°14'11 | 2 ₹ 20 | 9°51 | 6°19 | 23°30 | 19°32 | 20° 2 | 22°41 | 10°12 | 23°54 | 27°18 | 27°53 | 12°33 | 27°54 | F 6 |
| S 7 | 21 5 31 | 15°11'46 | 14°54 | 10°19 | 7°32 | 24° 8 | 19°26 | 20° 7 | 22°42 | 10°10 | 23°56 | 27°15 | 27°50 | 12°40 | 27°56 | S 7 |
| S 8 | 21 9 28 | 16° 9'21 | 27°52 | 10°42 | 8°47 | 24°46 | 19°20 | 20°11 | 22°43 | 10° 9 | 23°57 | 27° 9 | 27°47 | 12°46 | 27°57 | S 8 |
| M 9 | 21 13 25 | 17° 6'58 | 11 る 15 | 11° 1 | 10° 1 | 25°25 | 19°14 | 20°16 | 22°44 | 10° 7 | 23°59 | 27° 1 | 27°44 | 12°53 | 27°59 | M 9 |
| T 10 | 21 17 21 | 18° 4'35 | 25° 3 | 11°15 | 11°15 | 26° 3 | 19°8 | 20°20 | 22°45 | 10° 6 | 24° 0 | 26°51 | 27°41 | 13° 0 | 28° 1 | T 10 |
| W11 | 21 21 18 | 19° 2'14 | 9≈16 | 11°24 | 12°29 | 26°41 | 19° 2 | 20°25 | 22°46 | 10° 4 | 24° 2 | 26°41 | 27°38 | 13° 6 | 28° 2 | W11 |
| T 12 | 21 25 14 | 19°59'53 | 23°47 | 11°R27 | 13°43 | 27°19 | 18°57 | 20°29 | 22°47 | 10° 3 | 24° 3 | 26°31 | 27°34 | 13°13 | 28° 4 | T 12 |
| F 13 | 21 29 11 | 20°57'35 | 8) (30 | 11°25 | 14°57 | 27°57 | 18°51 | 20°34 | 22°48 | 10° 1 | 24° 5 | 26°22 | 27°31 | 13°20 | 28° 5 | F 13 |
| S 14 | 21 33 7 | 21°55'17 | 23°16 | 11°18 | 16°11 | 28°35 | 18°46 | 20°39 | 22°48 | 10° 0 | 24° 6 | 26°16 | 27°28 | 13°26 | 28° 6 | S 14 |
| S 15 | 21 37 4 | 22°53'01 | 7 Ƴ 59 | 11° 5 | 17°25 | 29°13 | 18°40 | 20°44 | 22°49 | 9°58 | 24° 8 | 26°13 | 27°25 | 13°33 | 28° 8 | S 15 |
| M16 | 21 41 0 | 23°50'47 | 22°33 | 10°46 | 18°39 | 29°51 | 18°35 | 20°49 | 22°50 | 9°57 | 24° 9 | 26°D11 | 27°22 | 13°40 | 28° 9 | M16 |
| T 17 | 21 44 57 | 24°48'34 | 6 8 53 | 10°21 | 19°54 | 0 m 29 | 18°30 | 20°54 | 22°50 | 9°55 | 24°11 | 26°12 | 27°19 | 13°46 | 28°10 | T 17 |
| W18 | 21 48 54 | 25°46'23 | 20°57 | 9°50 | 21° 8 | 1° 8 | 18°26 | 20°59 | 22°51 | 9°53 | 24°12 | 26°R12 | 27°15 | 13°53 | 28°11 | W18 |
| T 19 | 21 52 50 | 26°44'15 | 4 Ⅱ 46 | 9°15 | 22°22 | 1°46 | 18°21 | 21° 4 | 22°51 | 9°52 | 24°14 | 26°12 | 27°12 | 14° 0 | 28°12 | T 19 |
| F 20 | 21 56 47 | 27°42'08 | 18°19 | 8°34 | 23°36 | 2°24 | 18°17 | 21° 9 | 22°52 | 9°50 | 24°15 | 26°10 | 27° 9 | 14° 6 | 28°13 | F 20 |
| S 21 | 22 0 43 | 28°40'02 | 19538 | 7°48 | 24°51 | 3° 2 | 18°12 | 21°15 | 22°52 | 9°49 | 24°17 | 26° 6 | 27° 6 | 14°13 | 28°14 | S 21 |
| S 22 | 22 4 40 | 29°37'59 | 14°44 | 6°59 | 26° 5 | 3°40 | 18° 8 | 21°20 | 22°52 | 9°47 | 24°18 | 25°59 | 27° 3 | 14°20 | 28°15 | S 22 |
| M23 | 22 8 36 | 0 m 35'57 | 27°36 | 6° 6 | 27°19 | 4°19 | 18° 4 | 21°25 | 22°53 | 9°45 | 24°19 | 25°51 | 26°59 | 14°26 | 28°15 | M23 |
| T 24 | 22 12 33 | 1°33'57 | 10 Ω 17 | 5°11 | 28°34 | 4°57 | 18° 0 | 21°31 | 22°53 | 9°44 | 24°21 | 25°41 | 26°56 | 14°33 | 28°16 | T 24 |
| W25 | 22 16 29 | 2°31'59 | 22°45 | 4°15 | 29°48 | 5°35 | 17°57 | 21°36 | 22°53 | 9°42 | 24°22 | 25°32 | 26°53 | 14°40 | 28°17 | W25 |
| T 26 | 22 20 26 | 3°30'02 | 5Mp 2 | 3°19 | 1 m y 3 | 6°13 | 17°53 | 21°42 | 22°53 | 9°40 | 24°23 | 25°22 | 26°50 | 14°46 | 28°17 | T 26 |
| F 27 | 22 24 23 | 4°28'07 | 17° 9 | 2°24 | 2°17 | 6°52 | 17°50 | 21°47 | 22°53 | 9°39 | 24°25 | 25°15 | 26°47 | 14°53 | 28°18 | F 27 |
| S 28 | 22 28 19 | 5°26'13 | 29° 7 | 1°31 | 3°32 | 7°30 | 17°47 | 21°53 | 22°R53 | 9°37 | 24°26 | 25° 9 | 26°44 | 14°59 | 28°18 | S 28 |
| S 29 | 22 32 16 | 6°24'21 | 10 ≏ 57 | 0°42 | 4°46 | 8° 8 | 17°44 | 21°59 | 22°53 | 9°36 | 24°27 | 25° 6 | 26°40 | 15° 6 | 28°19 | S 29 |
| M30 | 22 36 12 | 7°22'31 | 22°44 | $29\Omega57$ | 6° 0 | 8°47 | 1 <u>7</u> °42 | 22° 5 | 22°53 | 9°34 | 24°29 | 25°D 5 | 26°37 | 15°13 | 28°19 | M30 |
| T 31 | 22 40 9 | 8 m 20'42 | 4 M .30 | 29 Ω 18 | 7 m 15 | 9 m 25 | 17 る 39 | 22 ₽ 11 | 22 8 53 | 9 ∺ 32 | 24930 | 25 Y 5 | 26 Y 34 | 15 Ω 19 | 28 8 19 | T 31 |

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| W 1 | 22 44 5 | 9 m)18'55 | 16ML20 | 28°R46 | 8 m /30 | 10 m 3 | 17°R37 | 22 ⊆ 17 | 22°R53 | 9°R31 | 24931 | 25 Y 6 | 26 Y 31 | 15 ≏ 26 | 28819 | W 1 |
| T 2 | 22 48 2 | 10°17'09 | 28°19 | 28 Ω 21 | 9°44 | 10°42 | 17 る 35 | 22°22 | 22 8 53 | 9 ∺ 29 | 24°32 | 25° 8 | 26°28 | 15°33 | 28°19 | T 2 |
| F 3 | 22 51 58 | 11°15'25 | 10 ∡ 32 | 28° 4 | 10°59 | 11°20 | 17°33 | 22°28 | 22°52 | 9°27 | 24°34 | 25°R 8 | 26°25 | 15°39 | 28°R19 | F 3 |
| S 4 | 22 55 55 | 12°13'43 | 23° 3 | 27°D56 | 12°13 | 11°58 | 17°31 | 22°35 | 22°52 | 9°26 | 24°35 | 25° 8 | 26°21 | 15°46 | 28°19 | S 4 |
| S 5 | 22 59 52 | 13°12'02 | 5 云 58 | 27°57 | 13°28 | 12°37 | 17°29 | 22°41 | 22°52 | 9°24 | 24°36 | 25° 5 | 26°18 | 15°53 | 28°19 | S 5 |
| M 6 | 23 3 48 | 14°10'23 | 19°20 | 28° 7 | 14°42 | 13°15 | 17°28 | 22°47 | 22°51 | 9°22 | 24°37 | 25° 1 | 26°15 | 15°59 | 28°19 | M 6 |
| T 7 | 23 7 45 | 15° 8'45 | 3≈10 | 28°26 | 15°57 | 13°54 | 17°27 | 22°53 | 22°51 | 9°21 | 24°38 | 24°56 | 26°12 | 16° 6 | 28°19 | T 7 |
| W 8 | 23 11 41 | 16° 7'09 | 17°27 | 28°54 | 17°12 | 14°32 | 17°26 | 22°59 | 22°50 | 9°19 | 24°39 | 24°50 | 26° 9 | 16°13 | 28°19 | W 8 |
| T 9 | 23 15 38 | 17° 5'34 | 2 ∀ 8 | 29°31 | 18°26 | 15°10 | 17°25 | 23° 6 | 22°49 | 9°17 | 24°40 | 24°45 | 26° 5 | 16°19 | 28°18 | T 9 |
| F 10 | 23 19 34 | 18° 4'01 | 17° 5 | 0 m 16 | 19°41 | 15°49 | 17°24 | 23°12 | 22°49 | 9°16 | 24°42 | 24°40 | 26° 2 | 16°26 | 28°18 | F 10 |
| S 11 | 23 23 31 | 19° 2'30 | 2 Υ 10 | 1°10 | 20°55 | 16°27 | 17°24 | 23°18 | 22°48 | 9°14 | 24°43 | 24°36 | 25°59 | 16°33 | 28°17 | S 11 |
| S 12 | 23 27 27 | 20° 1'01 | 17°14 | 2°11 | 22°10 | 17° 6 | 17°24 | 23°25 | 22°47 | 9°13 | 24°44 | 24°35 | 25°56 | 16°39 | 28°17 | S 12 |
| M13 | 23 31 24 | 20°59'34 | 2 8 9 | 3°19 | 23°25 | 17°44 | 17°D24 | 23°31 | 22°47 | 9°11 | 24°45 | 24°D35 | 25°53 | 16°46 | 28°16 | M13 |
| T 14 | 23 35 21 | 21°58'10 | 16°47 | 4°33 | 24°40 | 18°23 | 17°24 | 23°38 | 22°46 | 9° 9 | 24°46 | 24°36 | 25°50 | 16°52 | 28°15 | T 14 |
| W15 | 23 39 17 | 22°56'47 | 1 I I 4 | 5°53 | 25°54 | 19° 2 | 17°24 | 23°44 | 22°45 | 9° 8 | 24°47 | 24°37 | 25°46 | 16°59 | 28°14 | W15 |
| T 16 | 23 43 14 | 23°55'27 | 14°59 | 7°19 | 27° 9 | 19°40 | 17°25 | 23°51 | 22°44 | 9° 6 | 24°48 | 24°38 | 25°43 | 17° 6 | 28°14 | T 16 |
| F 17 | 23 47 10 | 24°54'10 | 28°33 | 8°48 | 28°24 | 20°19 | 17°26 | 23°58 | 22°43 | 9° 5 | 24°49 | 24°R39 | 25°40 | 17°12 | 28°13 | F 17 |
| S 18 | 23 51 7 | 25°52'54 | 119545 | 10°22 | 29°38 | 20°57 | 17°27 | 24° 4 | 22°42 | 9° 3 | 24°49 | 24°38 | 25°37 | 17°19 | 28°12 | S 18 |
| S 19 | 23 55 3 | 26°51'41 | 24°40 | 11°59 | ე ჲ 53 | 21°36 | 17°28 | 24°11 | 22°41 | 9° 1 | 24°50 | 24°35 | 25°34 | 17°26 | 28°11 | S 19 |
| M20 | 23 59 0 | 27°50'30 | 7 Ω 18 | 13°39 | 2° 8 | 22°15 | 17°29 | 24°18 | 22°40 | 9° 0 | 24°51 | 24°32 | 25°31 | 17°32 | 28°10 | M20 |
| T 21 | 0 2 56 | 28°49'21 | 19°43 | 15°21 | 3°23 | 22°53 | 17°31 | 24°24 | 22°39 | 8°58 | 24°52 | 24°28 | 25°27 | 17°39 | 28° 8 | T 21 |
| W22 | 0 6 53 | 29°48'15 | 1 M 56 | 17° 5 | 4°38 | 23°32 | 17°32 | 24°31 | 22°38 | 8°57 | 24°53 | 24°24 | 25°24 | 17°46 | 28° 7 | W22 |
| T 23 | 0 10 50 | 0 ≏ 47'10 | 14° 0 | 18°51 | 5°52 | 24°11 | 17°34 | 24°38 | 22°36 | 8°55 | 24°54 | 24°20 | 25°21 | 17°52 | 28° 6 | T 23 |
| F 24 | 0 14 46 | 1°46'08 | 25°57 | 20°37 | 7° 7 | 24°49 | 17°37 | 24°45 | 22°35 | 8°54 | 24°55 | 24°16 | 25°18 | 17°59 | 28° 4 | F 24 |
| S 25 | 0 18 43 | 2°45'07 | 7 ≏ 48 | 22°24 | 8°22 | 25°28 | 17°39 | 24°52 | 22°34 | 8°52 | 24°55 | 24°14 | 25°15 | 18° 6 | 28° 3 | S 25 |
| S 26 | 0 22 39 | 3°44'09 | 19°36 | 24°12 | 9°37 | 26° 7 | 17°41 | 24°59 | 22°32 | 8°51 | 24°56 | 24°D13 | 25°11 | 18°12 | 28° 2 | S 26 |
| M27 | 0 26 36 | 4°43'12 | 1 M 22 | 26° 0 | 10°52 | 26°46 | 17°44 | 25° 6 | 22°31 | 8°49 | 24°57 | 24°13 | 25° 8 | 18°19 | 28° 0 | M27 |
| T 28 | 0 30 32 | 5°42'18 | 13°10 | 27°48 | 12° 7 | 27°24 | 17°47 | 25°13 | 22°29 | 8°48 | 24°57 | 24°14 | 25° 5 | 18°25 | 27°58 | T 28 |
| W29 | 0 34 29 | 6°41'25 | 25° 2 | 29°36 | 13°22 | 28° 3 | 17°50 | 25°20 | 22°28 | 8°47 | 24°58 | 24°16 | 25° 2 | 18°32 | 27°57 | W29 |
| T 30 | 0 38 25 | 7 ≏ 40'35 | 7 . ₹ 3 | 1 ≏ 24 | 14 ≏ 36 | 28 m 42 | 17 る 53 | 25 ≏ 27 | 22826 | 8 ∺ 45 | 249559 | 24 Y 17 | 24 Y 59 | 18 ≏ 39 | 27 8 55 | T 30 |

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Greg. Calendar

OCTOBER 1688 GC 00:00 UT

| Day | Sid.t | \odot | D | φ | φ | o ⁷ | 4 | ħ |)∤(| ¥ | 2 | ß | Ω | ţ | g | Day |
|------|---------|------------------|-----------------|---------------|----------------|----------------|----------------|----------------|--------|---------------|--------|----------------|----------------|----------------|----------------|------|
| F 1 | 0 42 22 | 8 ≏ 39'46 | 19 .7 16 | 3 ≏ 11 | 15 ≏ 51 | 29 m 21 | 17 る 57 | 25 ≏ 34 | 22°R25 | 8°R44 | 249559 | 24 Υ 19 | 24 Y 56 | 18 ≏ 45 | 27°R53 | F 1 |
| S 2 | 0 46 18 | 9°38'59 | 1 る 45 | 4°58 | 17° 6 | 29°59 | 18° 0 | 25°41 | 22823 | 8) 42 | 25° 0 | 24°19 | 24°52 | 18°52 | 27 8 51 | S 2 |
| S 3 | 0 50 15 | 10°38'14 | 14°36 | 6°44 | 18°21 | 0 ₾ 39 | 18° 4 | 25°48 | 22°22 | 8°41 | 25° 1 | 24°R19 | 24°49 | 18°59 | 27°49 | S 3 |
| M 4 | 0 54 12 | 11°37'31 | 27°50 | 8°29 | 19°36 | 1°18 | 18° 8 | 25°55 | 22°20 | 8°40 | 25° 1 | 24°19 | 24°46 | 19° 5 | 27°47 | M 4 |
| T 5 | 0 58 8 | 12°36'49 | 11≈31 | 10°14 | 20°51 | 1°57 | 18°12 | 26° 2 | 22°18 | 8°38 | 25° 2 | 24°18 | 24°43 | 19°12 | 27°45 | T 5 |
| W 6 | 1 2 5 | 13°36'09 | 25°40 | 11°59 | 22° 6 | 2°35 | 18°17 | 26° 9 | 22°16 | 8°37 | 25° 2 | 24°17 | 24°40 | 19°19 | 27°43 | W 6 |
| T 7 | 1 6 1 | 14°35'31 | 10 米 15 | 13°43 | 23°21 | 3°14 | 18°21 | 26°16 | 22°15 | 8°36 | 25° 3 | 24°15 | 24°36 | 19°25 | 27°41 | T 7 |
| F 8 | 1 9 58 | 15°34'55 | 25°11 | 15°26 | 24°35 | 3°53 | 18°26 | 26°24 | 22°13 | 8°35 | 25° 3 | 24°14 | 24°33 | 19°32 | 27°39 | F 8 |
| S 9 | 1 13 54 | 16°34'21 | 10 Y 20 | 17° 8 | 25°50 | 4°32 | 18°31 | 26°31 | 22°11 | 8°33 | 25° 4 | 24°14 | 24°30 | 19°39 | 27°37 | S 9 |
| S 10 | 1 17 51 | 17°33'48 | 25°34 | 18°50 | 27° 5 | 5°11 | 18°36 | 26°38 | 22° 9 | 8°32 | 25° 4 | 24°D14 | 24°27 | 19°45 | 27°35 | S 10 |
| M11 | 1 21 47 | 18°33'18 | 10843 | 20°31 | 28°20 | 5°50 | 18°41 | 26°45 | 22° 7 | 8°31 | 25° 4 | 24°14 | 24°24 | 19°52 | 27°32 | M11 |
| T 12 | 1 25 44 | 19°32'50 | 25°38 | 22°11 | 29°35 | 6°30 | 18°46 | 26°52 | 22° 5 | 8°30 | 25° 5 | 24°14 | 24°21 | 19°59 | 27°30 | T 12 |
| W13 | 1 29 41 | 20°32'25 | 10 Ⅱ 12 | 23°51 | 0 M .50 | 7° 9 | 18°52 | 27° 0 | 22° 3 | 8°29 | 25° 5 | 24°15 | 24°17 | 20° 5 | 27°27 | W13 |
| T 14 | 1 33 37 | 21°32'01 | 24°20 | 25°30 | 2° 5 | 7°48 | 18°57 | 27° 7 | 22° 1 | 8°28 | 25° 5 | 24°15 | 24°14 | 20°12 | 27°25 | T 14 |
| F 15 | 1 37 34 | 22°31'40 | 8 95 2 | 27° 8 | 3°20 | 8°27 | 19° 3 | 27°14 | 21°59 | 8°27 | 25° 6 | 24°15 | 24°11 | 20°18 | 27°22 | F 15 |
| S 16 | 1 41 30 | 23°31'22 | 21°18 | 28°46 | 4°35 | 9° 6 | 19° 9 | 27°21 | 21°57 | 8°26 | 25° 6 | 24°15 | 24° 8 | 20°25 | 27°20 | S 16 |
| S 17 | 1 45 27 | 24°31'05 | 4 Ω 11 | 0 M 23 | 5°50 | 9°45 | 19°16 | 27°29 | 21°55 | 8°25 | 25° 6 | 24°15 | 24° 5 | 20°32 | 27°17 | S 17 |
| M18 | 1 49 23 | 25°30'51 | 16°43 | 2° 0 | 7° 5 | 10°25 | 19°22 | 27°36 | 21°53 | 8°24 | 25° 6 | 24°15 | 24° 2 | 20°38 | 27°14 | M18 |
| T 19 | 1 53 20 | 26°30'39 | 29° 0 | 3°36 | 8°19 | 11° 4 | 19°28 | 27°43 | 21°50 | 8°23 | 25° 7 | 24°15 | 23°58 | 20°45 | 27°12 | T 19 |
| W20 | 1 57 16 | 27°30'29 | 11 m) 4 | 5°11 | 9°34 | 11°43 | 19°35 | 27°50 | 21°48 | 8°22 | 25° 7 | 24°16 | 23°55 | 20°52 | 27° 9 | W20 |
| T 21 | 2 1 13 | 28°30'21 | 22°59 | 6°46 | 10°49 | 12°22 | 19°42 | 27°58 | 21°46 | 8°21 | 25° 7 | 24°16 | 23°52 | 20°58 | 27° 6 | T 21 |
| F 22 | 2 5 10 | 29°30'16 | 4 <u>₽</u> 49 | 8°20 | 12° 4 | 13° 2 | 19°49 | 28° 5 | 21°44 | 8°20 | 25° 7 | 24°17 | 23°49 | 21° 5 | 27° 3 | F 22 |
| S 23 | 2 9 6 | 0MJ30'12 | 16°36 | 9°54 | 13°19 | 13°41 | 19°56 | 28°12 | 21°41 | 8°19 | 25° 7 | 24°17 | 23°46 | 21°12 | 27° 0 | S 23 |
| S 24 | 2 13 3 | 1°30'10 | 28°23 | 11°28 | 14°34 | 14°20 | 20° 3 | 28°19 | 21°39 | 8°18 | 25° 7 | 24°R17 | 23°42 | 21°18 | 26°58 | S 24 |
| M25 | 2 16 59 | 2°30'11 | 10 M 13 | 13° 1 | 15°49 | 15° 0 | 20°11 | 28°27 | 21°37 | 8°17 | 25°R 7 | 24°17 | 23°39 | 21°25 | 26°55 | M25 |
| T 26 | 2 20 56 | 3°30'13 | 22° 6 | 14°33 | 17° 4 | 15°39 | 20°19 | 28°34 | 21°34 | 8°16 | 25° 7 | 24°16 | 23°36 | 21°32 | 26°52 | T 26 |
| W27 | 2 24 52 | 4°30'17 | 4 ₹ 6 | 16° 5 | 18°19 | 16°18 | 20°26 | 28°41 | 21°32 | 8°16 | 25° 7 | 24°14 | 23°33 | 21°38 | 26°49 | W27 |
| T 28 | 2 28 49 | 5°30'23 | 16°15 | 17°37 | 19°34 | 16°58 | 20°34 | 28°48 | 21°30 | 8°15 | 25° 7 | 24°13 | 23°30 | 21°45 | 26°46 | T 28 |
| F 29 | 2 32 45 | 6°30'31 | 28°35 | 19°8 | 20°49 | 17°37 | 20°42 | 28°56 | 21°27 | 8°14 | 25° 7 | 24°11 | 23°27 | 21°51 | 26°42 | F 29 |
| S 30 | 2 36 42 | 7°30'41 | 11 る 9 | 20°38 | 22° 4 | 18°17 | 20°50 | 29° 3 | 21°25 | 8°14 | 25° 7 | 24°10 | 23°23 | 21°58 | 26°39 | S 30 |
| S 31 | 2 40 39 | 8ML30'52 | 23 る 59 | 22 M 9 | 23 M 19 | 18 ≏ 56 | 20 궁 59 | 29 ≙ 10 | 21822 | 8 ₩ 13 | 259 7 | 24 Y 8 | 23 Y 20 | 22 º 5 | 26 8 36 | S 31 |

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|--------------|--------------------|-------------------------------|-------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|--------------|
| M 1 | 2 44 35 | 9 M 31'04 | 7≈ 8 | 23 M 38 | 24M34 | 19 ≏ 36 | 21궁 7 | 29 ₽ 17 | 21°R20 | 8°R12 | 25°R 7 | 24°D 8 | 23 Y 17 | 22 ₽ 11 | 26°R33 | M 1 |
| T 2 | 2 48 32 | 10°31'18 | 20°40 | 25° 8 | 25°49 | 20°15 | 21°16 | 29°24 | 21818 | 8 ∺ 12 | 2595 6 | 24 Y 8 | 23°14 | 22°18 | 26 8 30 | T 2 |
| W 3 | 2 52 28 | 11°31'33 | 4) €34 | 26°37 | 27° 4 | 20°55 | 21°25 | 29°32 | 21°15 | 8°11 | 25° 6 | 24° 9 | 23°11 | 22°25 | 26°27 | W 3 |
| T 4 | 2 56 25 | 12°31'50 | 18°52 | 28° 5 | 28°19 | 21°35 | 21°33 | 29°39 | 21°13 | 8°11 | 25° 6 | 24°10 | 23° 8 | 22°31 | 26°23 | T 4 |
| F 5 | 3 0 21 | 13°32'08 | 3 Υ 31 | 29°33 | 29°34 | 22°14 | 21°42 | 29°46 | 21°10 | 8°10 | 25° 6 | 24°12 | 23° 4 | 22°38 | 26°20 | F 5 |
| S 6 | 3 4 18 | 14°32'28 | 18°27 | 1 🗷 1 | 0 ≯ 48 | 22°54 | 21°51 | 29°53 | 21° 8 | 8°10 | 25° 5 | 24°R12 | 23° 1 | 22°45 | 26°17 | S 6 |
| S 7 | 3 8 14 | 15°32'49 | 3 8 34 | 2°27 | 2° 3 | 23°34 | 22° 1 | 0 M 0 | 21° 5 | 8°10 | 25° 5 | 24°12 | 22°58 | 22°51 | 26°14 | S 7 |
| M 8 | 3 12 11 | 16°33'12 | 18°41 | 3°54 | 3°18 | 24°13 | 22°10 | 0° 7 | 21° 3 | 8° 9 | 25° 5 | 24°11 | 22°55 | 22°58 | 26°10 | M 8 |
| T 9 | 3 16 8 | 17°33'37 | 3 Ⅱ 41 | 5°19 | 4°33 | 24°53 | 22°20 | 0°14 | 21° 0 | 8° 9 | 25° 4 | 24° 8 | 22°52 | 23° 5 | 26° 7 | T 9 |
| W10 | 3 20 4 | 18°34'03 | 18°24 | 6°44 8° 9 | 5°48 | 25°33 | 22°29 | 0°21 | 20°58 | 8° 9 | 25° 4 | 24° 5 | 22°48 | 23°11 | 26° 4 | W10 |
| T 11 F 12 | 3 24 1 3 27 57 | 19°34'32 20°35'02 | 2 © 44 16°37 | 9°32 | 7° 3 8°18 | 26°13 26°52 | 22°39 22°49 | 0°28 0°35 | 20°55 20°53 | 8° 8 | 25° 4 25° 3 | 24° 1 23°58 | 22°45 22°42 | 23°18 23°25 | 26° 0 25°57 | T 11 F 12 |
| S 13 | 3 31 54 | 20°35'34 | 0Ω 1 | 10°55 | 9°33 | 20°32 27°32 | 22°59 | 0°42 | 20°50 | 8° 8 | 25° 3 | 23°55 | 22°39 | 23°31 | 25°54 | S 13 |
| | | | | | | | | - | | | | | | | | |
| S 14 | 3 35 50 | 22°36'07 | 12°59 | 12°16 | 10°48 | 28°12 | 23° 9 | 0°49 | 20°48 | 8° 8 | 25° 2 | 23°53 | 22°36 | 23°38 | 25°50 | S 14 |
| M15 | 3 39 47 | 23°36'43 | 25°33 | 13°36 | 12° 3 | 28°52 | 23°19 | 0°56 | 20°45 | 8° 7 | 25° 2 | 23°D53 | 22°33 | 23°44 | 25°47 | M15 |
| T 16 W17 | 3 43 44 3 47 40 | 24°37'20 25°37'59 | 7Mp48 19°49 | 14°55 16°13 | 13°18 14°32 | 29°32 | 23°29 23°40 | 1° 3 1°10 | 20°43 20°40 | 8° 7 8° 7 | 25° 1 25° 1 | 23°54 23°55 | 22°29 22°26 | 23°51 23°58 | 25°43 25°40 | T 16 W17 |
| T 18 | 3 4 / 40 | 26°38'39 | 19°49 1 Ω 40 | 16°13 | 14°32 15°47 | 0 M ₊12 0°52 | 23°50 | 1°17 | 20°40 20°38 | 8° 7 | 25° 1 | 23°57 | 22°23 | 23°38 24° 4 | 25°37 | T 18 |
| F 19 | 3 55 33 | 20 38 39 27°39'21 | 13°27 | 17 29 18°43 | 17° 2 | 1°32 | 23° 30° 24° 1 | 1°23 | 20°35 | 8°D 7 | 24°59 | 23°59 | 22°20 | 24°11 | 25°33 | F 19 |
| S 20 | 3 59 30 | 28°40'05 | 25°13 | 19°54 | 18°17 | 2°12 | 24°12 | 1°30 | 20°33 | 8° 7 | 24°59 | 23°R59 | 22°17 | 24°18 | 25°30 | S 20 |
| | | | | | | | | | | | | | | | | |
| S 21 M22 | 4 3 26 4 7 23 | 29°40'50 0 × 141'37 | 7 M ₊ 3 18°58 | 21° 4 22°10 | 19°32 20°47 | 2°52 3°32 | 24°23 24°34 | 1°37 1°43 | 20°30 20°28 | 8° 7 8° 7 | 24°58 24°58 | 23°58 23°55 | 22°14 22°10 | 24°24 24°31 | 25°26 25°23 | S 21 M22 |
| T 23 | 4 / 23 4 11 19 | 1°42'25 | 18°38 | 23°13 | 20°47 22° 2 | 4°12 | 24°34 24°45 | 1°43 | 20°28 20°25 | 8° 8 | 24°58 24°57 | 23°53 23°51 | 22° 7 | 24°31 24°38 | 25°23 25°20 | T 23 |
| W24 | 4 11 19 | 2°43'14 | 13°14 | 24°13 | 23°17 | 4°52 | 24°56 | 1°57 | 20°23 | 8° 8 | 24°56 | 23°44 | 22° 4 | 24°44 | 25°16 | W24 |
| T 25 | 4 19 13 | 3°44'05 | 25°38 | 25° 8 | 24°32 | 5°32 | 25° 7 | 2° 3 | 20°20 | 8° 8 | 24°55 | 23°37 | 22° 1 | 24°51 | 25°13 | T 25 |
| F 26 | 4 23 9 | 4°44'57 | 8 궁 13 | 25°58 | 25°46 | 6°12 | 25°19 | 2°10 | 20°18 | 8° 8 | 24°55 | 23°29 | 21°58 | 24°58 | 25°10 | F 26 |
| S 27 | 4 27 6 | 5°45'49 | 21° 1 | 26°43 | 27° 1 | 6°53 | 25°30 | 2°16 | 20°16 | 8° 9 | 24°54 | 23°22 | 21°54 | 25° 4 | 25° 6 | S 27 |
| S 28 | 4 31 2 | 6°46'43 | 4≈ 1 | 27°22 | 28°16 | 7°33 | 25°42 | 2°23 | 20°13 | 8° 9 | 24°53 | 23°16 | 21°51 | 25°11 | 25° 3 | S 28 |
| M29 | 4 34 59 | 7°47'38 | 17°15 | 27°53 | 29°31 | 8°13 | 25°53 | 2°29 | 20°11 | 8° 9 | 24°52 | 23°12 | 21°48 | 25°17 | 25° 0 | M29 |
| T 30 | 4 38 55 | 8 ∡ 148'33 | 0) 44 | 28 × 17 | 0 궁 46 | 8 M .53 | 26 궁 5 | 2MJ35 | 208 9 | 8 ∺ 10 | 24951 | 23 Y 10 | 21 Y 45 | 25 ≏ 24 | 24 8 56 | T 30 |

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|------|---------|-------------------|----------------|-----------------|---------------|-----------------|----------------|---------------|----------------|---------------|--------|----------------|----------------|----------------|----------------|------|
| W 1 | 4 42 52 | 9 ∡ 749'29 | 14 米 29 | 28 × 32 | 2ਰ 1 | 9 m 34 | 26 ਰ 17 | 2 M 42 | 20°R 6 | 8) 10 | 24°R51 | 23°D 9 | 21 Y 42 | 25 ≏ 31 | 24°R53 | W 1 |
| T 2 | 4 46 48 | 10°50'25 | 28°31 | 28°R37 | 3°15 | 10°14 | 26°29 | 2°48 | 208 4 | 8°10 | 24950 | 23 Y 10 | 21°39 | 25°37 | 24850 | T 2 |
| F 3 | 4 50 45 | 11°51'22 | 12 Y 49 | 28°33 | 4°30 | 10°54 | 26°41 | 2°54 | 20° 2 | 8°11 | 24°49 | 23°11 | 21°35 | 25°44 | 24°47 | F 3 |
| S 4 | 4 54 42 | 12°52'20 | 27°21 | 28°17 | 5°45 | 11°35 | 26°53 | 3° 0 | 19°59 | 8°11 | 24°48 | 23°R12 | 21°32 | 25°51 | 24°44 | S 4 |
| S 5 | 4 58 38 | 13°53'19 | 128 5 | 27°50 | 7° 0 | 12°15 | 27° 5 | 3° 6 | 19°57 | 8°12 | 24°47 | 23°10 | 21°29 | 25°57 | 24°40 | S 5 |
| M 6 | 5 2 3 5 | 14°54'18 | 26°54 | 27°11 | 8°15 | 12°55 | 27°17 | 3°12 | 19°55 | 8°13 | 24°46 | 23° 6 | 21°26 | 26° 4 | 24°37 | M 6 |
| T 7 | 5 631 | 15°55'19 | 11 Ⅱ 40 | 26°21 | 9°29 | 13°36 | 27°29 | 3°18 | 19°53 | 8°13 | 24°45 | 23° 0 | 21°23 | 26°11 | 24°34 | T 7 |
| W 8 | 5 10 28 | 16°56'20 | 26°17 | 25°21 | 10°44 | 14°16 | 27°42 | 3°24 | 19°51 | 8°14 | 24°44 | 22°52 | 21°20 | 26°17 | 24°31 | W 8 |
| T 9 | 5 14 24 | 17°57'22 | 10935 | 24°12 | 11°59 | 14°57 | 27°54 | 3°30 | 19°48 | 8°15 | 24°43 | 22°42 | 21°16 | 26°24 | 24°28 | T 9 |
| F 10 | 5 18 21 | 18°58'24 | 24°31 | 22°56 | 13°14 | 15°37 | 28° 7 | 3°36 | 19°46 | 8°15 | 24°42 | 22°33 | 21°13 | 26°31 | 24°25 | F 10 |
| S 11 | 5 22 17 | 19°59'28 | 8 N 0 | 21°35 | 14°28 | 16°18 | 28°19 | 3°42 | 19°44 | 8°16 | 24°41 | 22°25 | 21°10 | 26°37 | 24°22 | S 11 |
| S 12 | 5 26 14 | 21° 0'32 | 21° 3 | 20°12 | 15°43 | 16°58 | 28°32 | 3°48 | 19°42 | 8°17 | 24°40 | 22°18 | 21° 7 | 26°44 | 24°19 | S 12 |
| M13 | 5 30 11 | 22° 1'37 | 3 m 42 | 18°50 | 16°58 | 17°39 | 28°45 | 3°53 | 19°40 | 8°18 | 24°39 | 22°14 | 21° 4 | 26°51 | 24°16 | M13 |
| T 14 | 5 34 7 | 23° 2'43 | 16° 0 | 17°31 | 18°12 | 18°20 | 28°57 | 3°59 | 19°38 | 8°18 | 24°38 | 22°12 | 21° 0 | 26°57 | 24°13 | T 14 |
| W15 | 5 38 4 | 24° 3'50 | 28° 2 | 16°19 | 19°27 | 19° 0 | 29°10 | 4° 4 | 19°36 | 8°19 | 24°37 | 22°D12 | 20°57 | 27° 4 | 24°10 | W15 |
| T 16 | 5 42 0 | 25° 4'58 | 9 ॒ 53 | 15°14 | 20°42 | 19°41 | 29°23 | 4°10 | 19°34 | 8°20 | 24°36 | 22°12 | 20°54 | 27°10 | 24° 8 | T 16 |
| F 17 | 5 45 57 | 26° 6'06 | 21°40 | 14°19 | 21°56 | 20°22 | 29°36 | 4°15 | 19°32 | 8°21 | 24°34 | 22°R13 | 20°51 | 27°17 | 24° 5 | F 17 |
| S 18 | 5 49 53 | 27° 7'15 | 3 m 27 | 13°34 | 23°11 | 21° 2 | 29°49 | 4°20 | 19°31 | 8°22 | 24°33 | 22°12 | 20°48 | 27°24 | 24° 2 | S 18 |
| S 19 | 5 53 50 | 28° 8'25 | 15°20 | 12°59 | 24°25 | 21°43 | 0≈ 2 | 4°26 | 19°29 | 8°23 | 24°32 | 22° 9 | 20°45 | 27°30 | 24° 0 | S 19 |
| M20 | 5 57 46 | 29° 9'35 | 27°21 | 12°36 | 25°40 | 22°24 | 0°16 | 4°31 | 19°27 | 8°24 | 24°31 | 22° 4 | 20°41 | 27°37 | 23°57 | M20 |
| T 21 | 6 1 43 | 0 궁 10'46 | 9 ∡ ³35 | 12°22 | 26°55 | 23° 5 | 0°29 | 4°36 | 19°25 | 8°25 | 24°30 | 21°56 | 20°38 | 27°44 | 23°54 | T 21 |
| W22 | 6 5 40 | 1°11'57 | 22° 2 | 12°D19 | 28° 9 | 23°46 | 0°42 | 4°41 | 19°24 | 8°26 | 24°29 | 21°45 | 20°35 | 27°50 | 23°52 | W22 |
| T 23 | 6 9 36 | 2°13'08 | 4 ⋜ 44 | 12°26 | 29°24 | 24°26 | 0°55 | 4°46 | 19°22 | 8°28 | 24°27 | 21°32 | 20°32 | 27°57 | 23°49 | T 23 |
| F 24 | 6 13 33 | 3°14'20 | 17°40 | 12°40 | 0≈38 | 25° 7 | 1° 9 | 4°51 | 19°20 | 8°29 | 24°26 | 21°19 | 20°29 | 28° 4 | 23°47 | F 24 |
| S 25 | 6 17 29 | 4°15'32 | 0≈50 | 13° 3 | 1°53 | 25°48 | 1°22 | 4°56 | 19°19 | 8°30 | 24°25 | 21° 7 | 20°26 | 28°10 | 23°45 | S 25 |
| S 26 | 6 21 26 | 5°16'43 | 14°11 | 13°33 | 3° 7 | 26°29 | 1°36 | 5° 1 | 19°17 | 8°31 | 24°24 | 20°56 | 20°22 | 28°17 | 23°42 | S 26 |
| M27 | 6 25 22 | 6°17'55 | 27°42 | 14° 9 | 4°22 | 27°10 | 1°49 | 5° 5 | 19°16 | 8°32 | 24°22 | 20°48 | 20°19 | 28°24 | 23°40 | M27 |
| T 28 | 6 29 19 | 7°19'06 | 11) 22 | 14°51 | 5°36 | 27°51 | 2° 3 | 5°10 | 19°14 | 8°34 | 24°21 | 20°43 | 20°16 | 28°30 | 23°38 | T 28 |
| W29 | 6 33 16 | 8°20'17 | 25°10 | 15°37 | 6°50 | 28°32 | 2°16 | 5°14 | 19°13 | 8°35 | 24°20 | 20°41 | 20°13 | 28°37 | 23°36 | W29 |
| T 30 | 6 37 12 | 9°21'28 | 9 Ƴ 7 | 16°29 | 8° 5 | 29°13 | 2°30 | 5°19 | 19°11 | 8°36 | 24°19 | 20°D40 | 20°10 | 28°44 | 23°34 | T 30 |
| F 31 | 6 41 9 | 10る22'38 | 23 Y 12 | 17 ∡ 724 | 9 ≈ 19 | 29 IL 54 | 2≈44 | 5 M 23 | 19 8 10 | 8 ∺ 38 | 249517 | 20°R40 | 20 ° 6 | 28 ♀ 50 | 23 8 32 | F 31 |

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| Day | Sid.t | 0 | D | ğ | Ŷ | δ | 4 | ħ |)Å(| ¥ | В | ß | v | Ç | ę, | Day |
|------|---------|-------------------|-----------------|----------------|----------------|-----------------|-------|----------------|----------------|---------------|--------|----------------|----------------|----------------|--------|------|
| S 1 | 6 45 5 | 11 る 23'48 | 7 8 24 | 18 × 23 | 10≈33 | 0 ₮ 35 | 2≈58 | 5 M 28 | 19°R 9 | 8) 39 | 24°R16 | 20°R39 | 20 ° 3 | 28 ≏ 57 | 23°R30 | S 1 |
| S 2 | 6 49 2 | 12°24'58 | 21°42 | 19°26 | 11°48 | 1°16 | 3°11 | 5°32 | 19 8 8 | 8°41 | 249915 | 20 Y 37 | 20° 0 | 29° 3 | 23828 | S 2 |
| M 3 | 6 52 58 | 13°26'07 | 6 I I 4 | 20°31 | 13° 2 | 1°58 | 3°25 | 5°36 | 19° 6 | 8°42 | 24°13 | 20°31 | 19°57 | 29°10 | 23°26 | M 3 |
| T 4 | 6 56 55 | 14°27'16 | 20°24 | 21°38 | 14°16 | 2°39 | 3°39 | 5°40 | 19° 5 | 8°44 | 24°12 | 20°22 | 19°54 | 29°17 | 23°24 | T 4 |
| W 5 | 7 0 51 | 15°28'25 | 4938 | 22°48 | 15°30 | 3°20 | 3°53 | 5°44 | 19° 4 | 8°45 | 24°11 | 20°11 | 19°51 | 29°23 | 23°22 | W 5 |
| T 6 | 7 4 48 | 16°29'33 | 18°40 | 24° 0 | 16°44 | 4° 1 | 4° 7 | 5°48 | 19° 3 | 8°47 | 24°10 | 19°58 | 19°47 | 29°30 | 23°21 | T 6 |
| F 7 | 7 8 45 | 17°30'41 | 2Ω 24 | 25°14 | 17°59 | 4°42 | 4°21 | 5°52 | 19° 2 | 8°48 | 24° 8 | 19°45 | 19°44 | 29°37 | 23°19 | F 7 |
| S 8 | 7 12 41 | 18°31'48 | 15°47 | 26°30 | 19°13 | 5°24 | 4°35 | 5°55 | 19° 1 | 8°50 | 24° 7 | 19°33 | 19°41 | 29°43 | 23°18 | S 8 |
| S 9 | 7 16 38 | 19°32'55 | 28°48 | 27°47 | 20°27 | 6° 5 | 4°49 | 5°59 | 19° 0 | 8°51 | 24° 6 | 19°23 | 19°38 | 29°50 | 23°16 | S 9 |
| M10 | 7 20 34 | 20°34'02 | 11 m)27 | 29° 5 | 21°41 | 6°46 | 5° 3 | 6° 2 | 18°59 | 8°53 | 24° 4 | 19°16 | 19°35 | 29°57 | 23°15 | M10 |
| T 11 | 7 24 31 | 21°35'08 | 23°46 | 0 ප 25 | 22°55 | 7°28 | 5°17 | 6° 6 | 18°59 | 8°55 | 24° 3 | 19°12 | 19°32 | OM 3 | 23°13 | T 11 |
| W12 | 7 28 27 | 22°36'15 | 5 ≏ 50 | 1°46 | 24° 8 | 8° 9 | 5°31 | 6° 9 | 18°58 | 8°56 | 24° 2 | 19°10 | 19°28 | 0°10 | 23°12 | W12 |
| T 13 | 7 32 24 | 23°37'21 | 17°43 | 3° 8 | 25°22 | 8°50 | 5°45 | 6°12 | 18°57 | 8°58 | 24° 0 | 19°10 | 19°25 | 0°17 | 23°11 | T 13 |
| F 14 | 7 36 20 | 24°38'26 | 29°31 | 4°31 | 26°36 | 9°32 | 5°59 | 6°15 | 18°57 | 9° 0 | 23°59 | 19°10 | 19°22 | 0°23 | 23°10 | F 14 |
| S 15 | 7 40 17 | 25°39'32 | 11 M .19 | 5°55 | 27°50 | 10°13 | 6°13 | 6°19 | 18°56 | 9° 2 | 23°58 | 19° 9 | 19°19 | 0°30 | 23° 9 | S 15 |
| S 16 | 7 44 14 | 26°40'36 | 23°14 | 7°20 | 29° 4 | 10°55 | 6°28 | 6°22 | 18°55 | 9° 3 | 23°56 | 19° 6 | 19°16 | 0°37 | 23° 8 | S 16 |
| M17 | 7 48 10 | 27°41'41 | 5 ₹ 19 | 8°45 | 0 ∺ 17 | 11°36 | 6°42 | 6°24 | 18°55 | 9° 5 | 23°55 | 19° 1 | 19°12 | 0°43 | 23° 7 | M17 |
| T 18 | 7 52 7 | 28°42'45 | 1 <u>7</u> °39 | 10°12 | 1°31 | 12°18 | 6°56 | 6°27 | 18°54 | 9° 7 | 23°54 | 18°53 | 19° 9 | 0°50 | 23° 6 | T 18 |
| W19 | 7 56 3 | 29°43'48 | 0 궁 17 | 11°39 | 2°45 | 12°59 | 7°10 | 6°30 | 18°54 | 9° 9 | 23°52 | 18°42 | 19° 6 | 0°56 | 23° 5 | W19 |
| T 20 | 8 0 0 | 0≈44'51 | 13°14 | 13° 7 | 3°58 | 13°41 | 7°25 | 6°32 | 18°54 | 9°11 | 23°51 | 18°30 | 19° 3 | 1° 3 | 23° 4 | T 20 |
| F 21 | 8 3 56 | 1°45'53 | 26°30 | 14°36 | 5°12 | 14°23 | 7°39 | 6°35 | 18°53 | 9°13 | 23°50 | 18°17 | 19° 0 | 1°10 | 23° 4 | F 21 |
| S 22 | 8 7 53 | 2°46'55 | 10≈ 3 | 16° 6 | 6°25 | 15° 4 | 7°53 | 6°37 | 18°53 | 9°15 | 23°48 | 18° 4 | 18°57 | 1°16 | 23° 3 | S 22 |
| S 23 | 8 11 49 | 3°47'55 | 23°50 | 17°36 | 7°39 | 15°46 | 8° 7 | 6°40 | 18°53 | 9°17 | 23°47 | 17°53 | 18°53 | 1°23 | 23° 2 | S 23 |
| M24 | 8 15 46 | 4°48'54 | 7 ∺ 47 | 19° 7 | 8°52 | 16°28 | 8°22 | 6°42 | 18°53 | 9°18 | 23°46 | 17°45 | 18°50 | 1°30 | 23° 2 | M24 |
| T 25 | 8 19 43 | 5°49'52 | 21°50 | 20°39 | 10° 5 | 17° 9 | 8°36 | 6°44 | 18°53 | 9°20 | 23°44 | 17°40 | 18°47 | 1°36 | 23° 2 | T 25 |
| W26 | 8 23 39 | 6°50'48 | 5 Ƴ 57 | 22°11 | 11°18 | 17°51 | 8°50 | 6°46 | 18°D53 | 9°22 | 23°43 | 17°37 | 18°44 | 1°43 | 23° 1 | W26 |
| T 27 | 8 27 36 | 7°51'43 | 20° 4 | 23°44 | 12°32 | 18°33 | 9° 5 | 6°48 | 18°53 | 9°24 | 23°42 | 17°D37 | 18°41 | 1°50 | 23° 1 | T 27 |
| F 28 | 8 31 32 | 8°52'37 | 4810 | 25°18 | 13°45 | 19°15 | 9°19 | 6°50 | 18°53 | 9°26 | 23°41 | 17°R37 | 18°38 | 1°56 | 23° 1 | F 28 |
| S 29 | 8 35 29 | 9°53'30 | 18°15 | 26°53 | 14°58 | 19°56 | 9°33 | 6°51 | 18°53 | 9°28 | 23°39 | 17°37 | 18°34 | 2° 3 | 23° 1 | S 29 |
| S 30 | 8 39 25 | 10°54'21 | 2 Ⅱ 17 | 28°28 | 16°11 | 20°38 | 9°47 | 6°53 | 18°53 | 9°30 | 23°38 | 17°35 | 18°31 | 2°10 | 23°D 1 | S 30 |
| M31 | 8 43 22 | 11≈55'11 | 16 II 16 | 0≈ 4 | 17) 24 | 21 × 120 | 10≈ 2 | 6 M .54 | 18 8 54 | 9 米 33 | 23937 | 17 Y 31 | 18 Y 28 | 2 M 16 | 238 1 | M31 |

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Greg. Calendar

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|------|----------|------------------|-----------------|-----------------|----------------|---------------|-------|---------------|------------------|----------------|--------|----------------|----------------|---------------|-------|------|
| T 1 | 8 47 18 | 12≈55'59 | 099 9 | 1≈41 | 18 ∺ 36 | 22 × 2 | 10≈16 | 6M56 | 18 8 54 | 9 ∺ 35 | 23°R36 | 17°R24 | 18 Y 25 | 2M23 | 238 1 | T 1 |
| W 2 | 8 51 15 | 13°56'46 | 13°55 | 3°18 | 19°49 | 22°44 | 10°30 | 6°57 | 18°54 | 9°37 | 23934 | 17 Υ 14 | 18°22 | 2°30 | 23° 1 | W 2 |
| T 3 | 8 55 12 | 14°57'31 | 27°30 | 4°56 | 21° 2 | 23°26 | 10°45 | 6°58 | 18°55 | 9°39 | 23°33 | 17° 3 | 18°18 | 2°36 | 23° 1 | T 3 |
| F 4 | 8 59 8 | 15°58'15 | 10 Ω 51 | 6°35 | 22°14 | 24° 7 | 10°59 | 6°59 | 18°55 | 9°41 | 23°32 | 16°52 | 18°15 | 2°43 | 23° 2 | F 4 |
| S 5 | 9 3 5 | 16°58'58 | 23°57 | 8°15 | 23°27 | 24°49 | 11°13 | 7° 0 | 18°56 | 9°43 | 23°31 | 16°42 | 18°12 | 2°50 | 23° 2 | S 5 |
| S 6 | 9 7 1 | 17°59'39 | 6 m /46 | 9°56 | 24°39 | 25°31 | 11°27 | 7° 1 | 18°56 | 9°45 | 23°29 | 16°34 | 18° 9 | 2°56 | 23° 3 | S 6 |
| M 7 | 9 10 58 | 19° 0'19 | 19°17 | 11°37 | 25°52 | 26°13 | 11°42 | 7° 2 | 18°57 | 9°47 | 23°28 | 16°27 | 18° 6 | 3° 3 | 23° 3 | M 7 |
| T 8 | 9 14 54 | 20° 0'57 | 1 ≏ 33 | 13°20 | 27° 4 | 26°55 | 11°56 | 7° 2 | 18°57 | 9°50 | 23°27 | 16°24 | 18° 3 | 3° 9 | 23° 4 | T 8 |
| W 9 | 9 18 51 | 21° 1'34 | 13°36 | 15° 3 | 28°16 | 27°38 | 12°10 | 7° 3 | 18°58 | 9°52 | 23°26 | 16°D23 | 17°59 | 3°16 | 23° 4 | W 9 |
| T 10 | 9 22 47 | 22° 2'10 | 25°29 | 16°47 | 29°28 | 28°20 | 12°24 | 7° 3 | 18°59 | 9°54 | 23°25 | 16°23 | 17°56 | 3°23 | 23° 5 | T 10 |
| F 11 | 9 26 44 | 23° 2'45 | 7 ™ 18 | 18°32 | 0 Υ 40 | 29° 2 | 12°39 | 7° 4 | 19° 0 | 9°56 | 23°24 | 16°24 | 17°53 | 3°29 | 23° 6 | F 11 |
| S 12 | 9 30 41 | 24° 3'19 | 19° 6 | 20°18 | 1°52 | 29°44 | 12°53 | 7° 4 | 19° 1 | 9°58 | 23°23 | 16°R25 | 17°50 | 3°36 | 23° 7 | S 12 |
| S 13 | 9 34 37 | 25° 3'51 | 1 / 1 | 22° 5 | 3° 4 | 0 ප 26 | 13° 7 | 7° 4 | 19° 2 | 10° 0 | 23°21 | 16°25 | 17°47 | 3°43 | 23° 8 | S 13 |
| M14 | 9 38 34 | 26° 4'22 | 13° 6 | 23°52 | 4°16 | 1° 8 | 13°21 | 7°R 4 | 19° 3 | 10° 3 | 23°20 | 16°23 | 17°44 | 3°49 | 23° 9 | M14 |
| T 15 | 9 42 30 | 27° 4'52 | 25°27 | 25°41 | 5°28 | 1°50 | 13°35 | 7° 4 | 19° 4 | 10° 5 | 23°19 | 16°19 | 17°40 | 3°56 | 23°10 | T 15 |
| W16 | 9 46 27 | 28° 5'20 | 8 동 | 27°30 | 6°39 | 2°33 | 13°49 | 7° 4 | 19° 5 | 10° 7 | 23°18 | 16°13 | 17°37 | 4° 3 | 23°11 | W16 |
| T 17 | 9 50 23 | 29° 5'47 | 21°12 | 29°21 | 7°51 | 3°15 | 14° 3 | 7° 4 | 19° 6 | 10° 9 | 23°17 | 16° 6 | 17°34 | 4° 9 | 23°12 | T 17 |
| F 18 | 9 54 20 | 0 米 6'13 | 4≈39 | 1) (12 | 9° 2 | 3°57 | 14°18 | 7° 3 | 19° 7 | 10°12 | 23°16 | 15°58 | 17°31 | 4°16 | 23°14 | F 18 |
| S 19 | 9 58 17 | 1° 6'37 | 18°28 | 3° 4 | 10°13 | 4°39 | 14°32 | 7° 3 | 19° 8 | 10°14 | 23°15 | 15°50 | 17°28 | 4°23 | 23°15 | S 19 |
| S 20 | 10 2 13 | 2° 6'59 | 2) 37 | 4°56 | 11°24 | 5°22 | 14°46 | 7° 2 | 19°10 | 10°16 | 23°14 | 15°43 | 17°24 | 4°29 | 23°16 | S 20 |
| M21 | 10 6 10 | 3° 7'19 | 17° 0 | 6°50 | 12°35 | 6° 4 | 15° 0 | 7° 1 | 19°11 | 10°18 | 23°13 | 15°38 | 17°21 | 4°36 | 23°18 | M21 |
| T 22 | 10 10 6 | 4° 7'38 | 1 Y 30 | 8°44 | 13°46 | 6°46 | 15°14 | 7° 1 | 19°12 | 10°21 | 23°12 | 15°35 | 17°18 | 4°43 | 23°20 | T 22 |
| W23 | 10 14 3 | 5° 7'55 | 16° 3 | 10°38 | 14°57 | 7°29 | 15°27 | 7° 0 | 19°14 | 10°23 | 23°11 | 15°D35 | 17°15 | 4°49 | 23°21 | W23 |
| T 24 | 10 17 59 | 6° 8'09 | 0 8 33 | 12°33 | 16° 8 | 8°11 | 15°41 | 6°59 | 19°15 | 10°25 | 23°10 | 15°35 | 17°12 | 4°56 | 23°23 | T 24 |
| F 25 | 10 21 56 | 7° 8'22 | 14°56 | 14°28 | 17°19 | 8°53 | 15°55 | 6°58 | 19°17 | 10°28 | 23° 9 | 15°37 | 17° 9 | 5° 3 | 23°25 | F 25 |
| S 26 | 10 25 52 | 8° 8'32 | 29° 8 | 16°23 | 18°29 | 9°36 | 16° 9 | 6°56 | 19°18 | 10°30 | 23° 8 | 15°38 | 17° 5 | 5° 9 | 23°27 | S 26 |
| S 27 | 10 29 49 | 9° 8'41 | 13 I I 8 | 18°18 | 19°39 | 10°18 | 16°23 | 6°55 | 19°20 | 10°32 | 23° 8 | 15°R38 | 17° 2 | 5°16 | 23°28 | S 27 |
| M28 | 10 33 45 | 10 米 8'47 | 26 II 57 | 20 ∺ 13 | 20 Y 50 | 11중 1 | 16≈37 | 6 M 54 | 19822 | 10 ∺ 34 | 2395 7 | 15 Y 37 | 16 Y 59 | 5 M 22 | 23830 | M28 |

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| T 1 | 10 37 42 | 11 米 8'51 | 10932 | 22 米 7 | 22 Y 0 | 11 る 43 | 16≈50 | 6°R52 | 19823 | 10 ∺ 37 | 23°R 6 | 15°R34 | 16 Y 56 | 5 M 29 | 23832 | T 1 |
| W 2 | 10 41 39 | 12° 8'53 | 23°55 | 23°59 | 23°10 | 12°26 | 17° 4 | 6M.51 | 19°25 | 10°39 | 239 5 | 15 Υ 30 | 16°53 | 5°36 | 23°35 | W 2 |
| T 3 | 10 45 35 | 13° 8'53 | 7Ω 5 | 25°51 | 24°20 | 13° 8 | 17°17 | 6°49 | 19°27 | 10°41 | 23° 4 | 15°25 | 16°50 | 5°42 | 23°37 | T 3 F 4 |
| F 4 S 5 | 10 49 32 10 53 28 | 14° 8'51 15° 8'47 | 20° 2 2 m)46 | 27°40 29°27 | 25°29 26°39 | 13°50 14°33 | 17°31 17°45 | 6°47 6°45 | 19°29 19°31 | 10°43 10°46 | 23° 4 23° 3 | 15°19 15°14 | 16°46 16°43 | 5°49 5°56 | 23°39 23°41 | F 4 S 5 |
| | | | | | | | | | | | | | | | _ | |
| S 6 | 10 57 25 | 16° 8'40 | 15°16 | 1 Υ 12 | 27°48 | 15°16 | 17°58 | 6°43 | 19°32 | 10°48 | 23° 2 | 15°10 | 16°40 | 6° 2 | 23°44 | S 6 |
| M 7 | 11 121 | 17° 8'32 | 27°35 9 Ω 42 | 2°53 | 28°57 0 8 6 | 15°58 | 18°11 | 6°41 | 19°34 | 10°50 10°53 | 23° 1 | 15° 7 | 16°37 | 6° 9 | 23°46 | M 7 |
| T 8 W 9 | 11 5 18 11 9 14 | 18° 8'21 19° 8'09 | 21°40 | 4°31 6° 4 | 1°15 | 16°41 17°23 | 18°25 18°38 | 6°39 6°37 | 19°36 19°39 | 10°53 10°55 | 23° 1 23° 0 | 15°D 6 15° 6 | 16°34 16°30 | 6°16 6°22 | 23°48 23°51 | T 8 W 9 |
| T 10 | 11 13 11 | 20° 7'55 | 3M31 | 7°33 | 2°24 | 17 23 18° 6 | 18°51 | 6°34 | 19°41 | 10°57 | 22°59 | 15° 7 | 16°27 | 6°29 | 23°53 | T 10 |
| F 11 | 11 17 8 | 21° 7'39 | 15°20 | 8°56 | 3°33 | 18°49 | 19° 5 | 6°32 | 19°43 | 10°59 | 22°59 | 15° 9 | 16°24 | 6°36 | 23°56 | F 11 |
| S 12 | 11 21 4 | 22° 7'22 | 27° 9 | 10°14 | 4°41 | 19°31 | 19°18 | 6°29 | 19°45 | 11° 2 | 22°58 | 15°10 | 16°21 | 6°42 | 23°59 | S 12 |
| S 13 | 11 25 1 | 23° 7'02 | 9 ∡ 7 3 | 11°25 | 5°49 | 20°14 | 19°31 | 6°27 | 19°47 | 11° 4 | 22°58 | 15°12 | 16°18 | 6°49 | 24° 2 | S 13 |
| M14 | 11 28 57 | 24° 6'41 | 21° 7 | 12°31 | 6°57 | 20°57 | 19°44 | 6°24 | 19°49 | 11° 6 | 22°57 | 15°R12 | 16°15 | 6°56 | 24° 4 | M14 |
| T 15 | 11 32 54 | 25° 6'19 | 3 ට 27 | 13°29 | 8° 5 | 21°39 | 19°57 | 6°21 | 19°52 | 11°8 | 22°57 | 15°12 | 16°11 | 7° 2 | 24° 7 | T 15 |
| W16 | 11 36 50 | 26° 5'54 | 16° 5 | 14°20 | 9°13 | 22°22 | 20°10 | 6°18 | 19°54 | 11°10 | 22°56 | 15°11 | 16° 8 | 7° 9 | 24°10 | W16 |
| T 17 | 11 40 47 | 27° 5'28 | 29° 6 | 15° 4 | 10°20 | 23° 5 | 20°23 | 6°16 | 19°56 | 11°13 | 22°56 | 15° 9 | 16° 5 | 7°16 | 24°13 | T 17 |
| F 18 | 11 44 43 | 28° 5'00 | 12≈33 | 15°40 | 11°28 | 23°47 | 20°36 | 6°12 | 19°59 | 11°15 | 22°55 | 15° 7 | 16° 2 | 7°22 | 24°16 | F 18 |
| S 19 | 11 48 40 | 29° 4'30 | 26°26 | 16° 8 | 12°35 | 24°30 | 20°49 | 6° 9 | 20° 1 | 11°17 | 22°55 | 15° 5 | 15°59 | 7°29 | 24°19 | S 19 |
| S 20 | 11 52 37 | 0 Υ 3'58 | 10) 44 | 16°29 | 13°42 | 25°13 | 21° 1 | 6° 6 | 20° 4 | 11°19 | 22°54 | 15° 3 | 15°55 | 7°36 | 24°22 | S 20 |
| M21 | 11 56 33 | 1° 3'24 | 25°21 | 16°41 | 14°49 | 25°56 | 21°14 | 6° 3 | 20° 6 | 11°21 | 22°54 | 15° 1 | 15°52 | 7°42 | 24°25 | M21 |
| T 22 W23 | 12 0 30 12 4 26 | 2° 2'48 3° 2'10 | 10 Υ 13 25°10 | 16°R46 16°44 | 15°55 17° 2 | 26°38 27°21 | 21°26 21°39 | 6° 0 5°56 | 20° 9 20°12 | 11°24 11°26 | 22°54 22°53 | 15°D 1 15° 1 | 15°49 15°46 | 7°49 7°56 | 24°29 24°32 | T 22 W23 |
| T 24 | 12 4 20 | 4° 1'29 | 108 5 | 16°34 | 17 2 18° 8 | 27 21 28° 4 | 21°51 | 5°53 | 20°12 20°14 | 11°28 | 22°53 | 15° 2 | 15°43 | 8° 2 | 24°35 | T 24 |
| F 25 | 12 12 19 | 5° 0'47 | 24°51 | 16°18 | 19°14 | 28°47 | 22° 4 | 5°49 | 20°17 | 11°30 | 22°53 | 15° 2 | 15°40 | 8° 9 | 24°39 | F 25 |
| S 26 | 12 16 16 | 6° 0'02 | 9П21 | 15°55 | 20°19 | 29°30 | 22°16 | 5°46 | 20°20 | 11°32 | 22°52 | 15° 3 | 15°36 | 8°15 | 24°42 | S 26 |
| S 27 | 12 20 12 | 6°59'15 | 23°33 | 15°26 | 21°25 | 0≈12 | 22°28 | 5°42 | 20°22 | 11°34 | 22°52 | 15° 4 | 15°33 | 8°22 | 24°45 | S 27 |
| M28 | 12 24 9 | 7°58'26 | 79524 | 14°51 | 22°30 | 0°55 | 22°40 | 5°38 | 20°25 | 11°36 | 22°52 | 15°R 4 | 15°30 | 8°29 | 24°49 | M28 |
| T 29 | 12 28 6 | 8°57'34 | 20°54 | 14°13 | 23°35 | 1°38 | 22°52 | 5°35 | 20°28 | 11°39 | 22°52 | 15° 4 | 15°27 | 8°35 | 24°52 | T 29 |
| W30 | 12 32 2 | 9°56'40 | 4 Ω 5 | 13°31 | 24°39 | 2°21 | 23° 4 | 5°31 | 20°31 | 11°41 | 22°52 | 15° 3 | 15°24 | 8°42 | 24°56 | W30 |
| T 31 | 12 35 59 | 10 Y 55'44 | 16 Ω 59 | 12 Y 46 | 25 8 44 | 3≈ 4 | 23≈16 | 5 M 27 | 20 8 34 | 11) (43 | 22951 | 15 ℃ 3 | 15 ℃ 21 | 8 M .49 | 25 8 0 | T 31 |

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Greg. Calendar

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|------|----------|-------------------|----------------|----------------|----------------|-------|-------|----------------|-------|------------------|--------|----------------|----------------|----------------|---------------|------|
| F 1 | 12 39 55 | 11 ° 54'45 | 29 Ω 37 | 11°R59 | 26848 | 3≈47 | 23≈28 | 5°R23 | 20836 | 11) (45 | 22°R51 | 15°R 2 | 15 Y 17 | 8 M .55 | 25 8 3 | F 1 |
| S 2 | 12 43 52 | 12°53'44 | 12 Mp 2 | 11 Y 12 | 27°52 | 4°29 | 23°40 | 5 M .19 | 20°39 | 11°47 | 22951 | 15 ° 2 | 15°14 | 9° 2 | 25° 7 | S 2 |
| S 3 | 12 47 48 | 13°52'40 | 24°16 | 10°24 | 28°55 | 5°12 | 23°51 | 5°15 | 20°42 | 11°49 | 22°51 | 15° 2 | 15°11 | 9° 9 | 25°11 | S 3 |
| M 4 | 12 51 45 | 14°51'35 | 6 ₽ 20 | 9°38 | 29°58 | 5°55 | 24° 3 | 5°11 | 20°45 | 11°51 | 22°51 | 15° 2 | 15° 8 | 9°15 | 25°15 | M 4 |
| T 5 | 12 55 41 | 15°50'27 | 18°18 | 8°53 | 1 I 1 | 6°38 | 24°14 | 5° 7 | 20°48 | 11°53 | 22°D51 | 15° 2 | 15° 5 | 9°22 | 25°18 | T 5 |
| W 6 | 12 59 38 | 16°49'18 | 0 M _10 | 8°11 | 2° 4 | 7°21 | 24°26 | 5° 3 | 20°51 | 11°55 | 22°51 | 15° 2 | 15° 1 | 9°29 | 25°22 | W 6 |
| T 7 | 13 3 35 | 17°48'06 | 11°59 | 7°32 | 3° 6 | 8° 4 | 24°37 | 4°58 | 20°54 | 11°57 | 22°51 | 15° 2 | 14°58 | 9°35 | 25°26 | T 7 |
| F 8 | 13 7 31 | 18°46'53 | 23°48 | 6°57 | 4° 8 | 8°46 | 24°48 | 4°54 | 20°57 | 11°58 | 22°51 | 15° 1 | 14°55 | 9°42 | 25°30 | F 8 |
| S 9 | 13 11 28 | 19°45'38 | 5 ₹ 39 | 6°26 | 5°10 | 9°29 | 24°59 | 4°50 | 21° 0 | 12° 0 | 22°51 | 15° 1 | 14°52 | 9°49 | 25°34 | S 9 |
| S 10 | 13 15 24 | 20°44'21 | 17°35 | 6° 0 | 6°11 | 10°12 | 25°10 | 4°45 | 21° 4 | 12° 2 | 22°51 | 15° 0 | 14°49 | 9°55 | 25°38 | S 10 |
| M11 | 13 19 21 | 21°43'02 | 29°40 | 5°39 | 7°12 | 10°55 | 25°21 | 4°41 | 21° 7 | 12° 4 | 22°52 | 14°59 | 14°46 | 10° 2 | 25°42 | M11 |
| T 12 | 13 23 17 | 22°41'42 | 11 る 59 | 5°23 | 8°12 | 11°38 | 25°32 | 4°37 | 21°10 | 12° 6 | 22°52 | 14°59 | 14°42 | 10° 9 | 25°46 | T 12 |
| W13 | 13 27 14 | 23°40'20 | 24°34 | 5°11 | 9°12 | 12°21 | 25°43 | 4°32 | 21°13 | 12° 8 | 22°52 | 14°D59 | 14°39 | 10°15 | 25°50 | W13 |
| T 14 | 13 31 10 | 24°38'56 | 7≈30 | 5° 5 | 10°12 | 13° 4 | 25°53 | 4°28 | 21°16 | 12°10 | 22°52 | 14°59 | 14°36 | 10°22 | 25°54 | T 14 |
| F 15 | 13 35 7 | 25°37'31 | 20°50 | 5°D 5 | 11°11 | 13°47 | 26° 4 | 4°23 | 21°19 | 12°11 | 22°52 | 15° 0 | 14°33 | 10°29 | 25°59 | F 15 |
| S 16 | 13 39 4 | 26°36'03 | 4) (36 | 5° 9 | 12°10 | 14°29 | 26°14 | 4°19 | 21°23 | 12°13 | 22°53 | 15° 0 | 14°30 | 10°35 | 26° 3 | S 16 |
| S 17 | 13 43 0 | 27°34'34 | 18°49 | 5°18 | 13° 9 | 15°12 | 26°24 | 4°14 | 21°26 | 12°15 | 22°53 | 15° 1 | 14°27 | 10°42 | 26° 7 | S 17 |
| M18 | 13 46 57 | 28°33'04 | 3 ℃ 27 | 5°32 | 14° 7 | 15°55 | 26°34 | 4°10 | 21°29 | 12°17 | 22°53 | 15° 2 | 14°23 | 10°49 | 26°11 | M18 |
| T 19 | 13 50 53 | 29°31'31 | 18°23 | 5°51 | 15° 4 | 16°38 | 26°45 | 4° 5 | 21°32 | 12°18 | 22°54 | 15°R 2 | 14°20 | 10°55 | 26°15 | T 19 |
| W20 | 13 54 50 | 0 8 29'57 | 3 8 32 | 6°14 | 16° 1 | 17°21 | 26°54 | 4° 1 | 21°36 | 12°20 | 22°54 | 15° 2 | 14°17 | 11° 2 | 26°20 | W20 |
| T 21 | 13 58 46 | 1°28'21 | 18°44 | 6°42 | 16°58 | 18° 3 | 27° 4 | 3°56 | 21°39 | 12°22 | 22°54 | 15° 0 | 14°14 | 11° 9 | 26°24 | T 21 |
| F 22 | 14 2 43 | 2°26'43 | 3 Ⅱ 49 | 7°14 | 17°54 | 18°46 | 27°14 | 3°52 | 21°42 | 12°23 | 22°55 | 14°58 | 14°11 | 11°15 | 26°28 | F 22 |
| S 23 | 14 6 39 | 3°25'04 | 18°38 | 7°49 | 18°49 | 19°29 | 27°24 | 3°47 | 21°46 | 12°25 | 22°55 | 14°56 | 14° 7 | 11°22 | 26°33 | S 23 |
| S 24 | 14 10 36 | 4°23'22 | 395 5 | 8°29 | 19°44 | 20°12 | 27°33 | 3°43 | 21°49 | 12°26 | 22°56 | 14°54 | 14° 4 | 11°29 | 26°37 | S 24 |
| M25 | 14 14 33 | 5°21'38 | 17° 7 | 9°13 | 20°39 | 20°55 | 27°42 | 3°38 | 21°53 | 12°28 | 22°56 | 14°52 | 14° 1 | 11°35 | 26°42 | M25 |
| T 26 | 14 18 29 | 6°19'52 | 0 Ω 42 | 10° 0 | 21°33 | 21°37 | 27°52 | 3°34 | 21°56 | 12°30 | 22°57 | 14°D51 | 13°58 | 11°42 | 26°46 | T 26 |
| W27 | 14 22 26 | 7°18'04 | 13°51 | 10°50 | 22°26 | 22°20 | 28° 1 | 3°29 | 21°59 | 12°31 | 22°57 | 14°51 | 13°55 | 11°49 | 26°51 | W27 |
| T 28 | 14 26 22 | 8°16'13 | 26°38 | 11°44 | 23°18 | 23° 3 | 28°10 | 3°24 | 22° 3 | 12°33 | 22°58 | 14°52 | 13°52 | 11°55 | 26°55 | T 28 |
| F 29 | 14 30 19 | 9°14'21 | 9 m y 7 | 12°40 | 24°10 | 23°45 | 28°19 | 3°20 | 22° 6 | 12°34 | 22°59 | 14°54 | 13°48 | 12° 2 | 27° 0 | F 29 |
| S 30 | 14 34 15 | 10812'27 | 21 Mp 20 | 13 Y 40 | 25 II 1 | 24≈28 | 28≈27 | 3 M .15 | 22810 | 12) (35 | 22959 | 14 Y 55 | 13 ℃ 45 | 12 M 9 | 27 8 4 | S 30 |

Delta T = 18.77 sec

MAY 1689 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)f(| ¥ | Р | ß | Ω | Ç | ę, | Day |
|------|----------|------------------|-----------------|----------------|--------|----------------|---------------|----------------|----------------|-----------------|--------|----------------|----------------|-----------------|----------------|------|
| S 1 | 14 38 12 | 11810'31 | 3 ₾ 23 | 14 Y 43 | 25耳52 | 25≈10 | 28≈36 | 3°R11 | 22813 | 12) (37 | 2399 0 | 14 Y 57 | 13 Y 42 | 12 M .15 | 27 8 9 | S 1 |
| M 2 | 14 42 8 | 12° 8'33 | 15°18 | 15°48 | 26°42 | 25°53 | 28°44 | 3M 6 | 22°17 | 12°38 | 23° 0 | 14°R57 | 13°39 | 12°22 | 27°13 | M 2 |
| T 3 | 14 46 5 | 13° 6'33 | 27° 9 | 16°57 | 27°31 | 26°36 | 28°53 | 3° 2 | 22°20 | 12°40 | 23° 1 | 14°57 | 13°36 | 12°29 | 27°18 | T 3 |
| W 4 | 14 50 1 | 14° 4'32 | 8 M 57 | 18° 8 | 28°19 | 27°18 | 29° 1 | 2°58 | 22°23 | 12°41 | 23° 2 | 14°54 | 13°32 | 12°35 | 27°22 | W 4 |
| T 5 | 14 53 58 | 15° 2'29 | 20°46 | 19°21 | 29° 6 | 28° 1 | 29° 9 | 2°53 | 22°27 | 12°42 | 23° 3 | 14°51 | 13°29 | 12°42 | 27°27 | T 5 |
| F 6 | 14 57 55 | 16° 0'24 | 2 ₹ 38 | 20°37 | 29°53 | 28°43 | 29°17 | 2°49 | 22°30 | 12°43 | 23° 3 | 14°46 | 13°26 | 12°49 | 27°31 | F 6 |
| S 7 | 15 1 51 | 16°58'18 | 14°34 | 21°55 | 0939 | 29°26 | 29°25 | 2°44 | 22°34 | 12°45 | 23° 4 | 14°41 | 13°23 | 12°55 | 27°36 | S 7 |
| S 8 | 15 5 48 | 17°56'11 | 26°36 | 23°16 | 1°23 | 0 ∀ 8 | 29°32 | 2°40 | 22°37 | 12°46 | 23° 5 | 14°35 | 13°20 | 13° 2 | 27°41 | S 8 |
| M 9 | 15 9 44 | 18°54'02 | 8 국 47 | 24°39 | 2° 7 | 0°50 | 29°40 | 2°36 | 22°41 | 12°47 | 23° 6 | 14°29 | 13°17 | 13° 9 | 27°45 | M 9 |
| T 10 | 15 13 41 | 19°51'52 | 21° 9 | 26° 5 | 2°50 | 1°33 | 29°47 | 2°32 | 22°44 | 12°48 | 23° 7 | 14°25 | 13°13 | 13°15 | 27°50 | T 10 |
| W11 | 15 17 37 | 20°49'41 | 3≈45 | 27°32 | 3°32 | 2°15 | 29°54 | 2°27 | 22°48 | 12°49 | 23° 7 | 14°22 | 13°10 | 13°22 | 27°55 | W11 |
| T 12 | 15 21 34 | 21°47'28 | 16°39 | 29° 2 | 4°13 | 2°57 | 0 米 2 | 2°23 | 22°51 | 12°50 | 23° 8 | 14°D21 | 13° 7 | 13°29 | 27°59 | T 12 |
| F 13 | 15 25 31 | 22°45'14 | 29°53 | 0 8 34 | 4°52 | 3°40 | 0° 8 | 2°19 | 22°55 | 12°52 | 23° 9 | 14°21 | 13° 4 | 13°35 | 28° 4 | F 13 |
| S 14 | 15 29 27 | 23°43'00 | 13 ∺ 30 | 2° 9 | 5°31 | 4°22 | 0°15 | 2°15 | 22°58 | 12°53 | 23°10 | 14°22 | 13° 1 | 13°42 | 28° 9 | S 14 |
| S 15 | 15 33 24 | 24°40'44 | 27°32 | 3°45 | 6° 8 | 5° 4 | 0°22 | 2°11 | 23° 2 | 12°54 | 23°11 | 14°23 | 12°58 | 13°49 | 28°13 | S 15 |
| M16 | 15 37 20 | 25°38'26 | 11 Y 58 | 5°24 | 6°44 | 5°46 | 0°28 | 2° 7 | 23° 5 | 12°55 | 23°12 | 14°R24 | 12°54 | 13°55 | 28°18 | M16 |
| T 17 | 15 41 17 | 26°36'08 | 26°45 | 7° 5 | 7°19 | 6°28 | 0°35 | 2° 3 | 23° 9 | 12°55 | 23°13 | 14°23 | 12°51 | 14° 2 | 28°23 | T 17 |
| W18 | 15 45 13 | 27°33'49 | 11850 | 8°49 | 7°53 | 7°10 | 0°41 | 1°59 | 23°12 | 12°56 | 23°14 | 14°21 | 12°48 | 14° 9 | 28°27 | W18 |
| T 19 | 15 49 10 | 28°31'29 | 27° 2 | 10°34 | 8°25 | 7°52 | 0°47 | 1°55 | 23°16 | 12°57 | 23°15 | 14°17 | 12°45 | 14°15 | 28°32 | T 19 |
| F 20 | 15 53 6 | 29°29'07 | 12 II 12 | 12°22 | 8°56 | 8°34 | 0°53 | 1°52 | 23°19 | 12°58 | 23°16 | 14°11 | 12°42 | 14°22 | 28°37 | F 20 |
| S 21 | 15 57 3 | 0 Ⅱ 26'45 | 27°10 | 14°12 | 9°25 | 9°16 | 0°58 | 1°48 | 23°23 | 12°59 | 23°17 | 14° 4 | 12°38 | 14°29 | 28°42 | S 21 |
| S 22 | 16 1 0 | 1°24'20 | 119548 | 16° 4 | 9°53 | 9°58 | 1° 4 | 1°44 | 23°26 | 13° 0 | 23°18 | 13°57 | 12°35 | 14°35 | 28°46 | S 22 |
| M23 | 16 4 56 | 2°21'55 | 26° 0 | 17°58 | 10°19 | 10°40 | 1° 9 | 1°41 | 23°30 | 13° 1 | 23°20 | 13°51 | 12°32 | 14°42 | 28°51 | M23 |
| T 24 | 16 8 53 | 3°19'28 | 9 Ω 42 | 19°54 | 10°44 | 11°22 | 1°14 | 1°37 | 23°33 | 13° 1 | 23°21 | 13°47 | 12°29 | 14°49 | 28°56 | T 24 |
| W25 | 16 12 49 | 4°16'59 | 22°56 | 21°52 | 11° 7 | 12° 3 | 1°19 | 1°34 | 23°37 | 13° 2 | 23°22 | 13°44 | 12°26 | 14°55 | 29° 0 | W25 |
| T 26 | 16 16 46 | 5°14'30 | 5 M 44 | 23°53 | 11°28 | 12°45 | 1°24 | 1°30 | 23°40 | 13° 3 | 23°23 | 13°D44 | 12°23 | 15° 2 | 29° 5 | T 26 |
| F 27 | 16 20 42 | 6°11'58 | 18°10 | 25°55 | 11°47 | 13°26 | 1°29 | 1°27 | 23°44 | 13° 3 | 23°24 | 13°44 | 12°19 | 15° 9 | 29°10 | F 27 |
| S 28 | 16 24 39 | 7° 9'26 | 0 ჲ 20 | 27°59 | 12° 4 | 14° 8 | 1°33 | 1°24 | 23°47 | 13° 4 | 23°25 | 13°45 | 12°16 | 15°15 | 29°14 | S 28 |
| S 29 | 16 28 35 | 8° 6'52 | 12°18 | 0耳 5 | 12°20 | 14°49 | 1°38 | 1°20 | 23°50 | 13° 4 | 23°27 | 13°R46 | 12°13 | 15°22 | 29°19 | S 29 |
| M30 | 16 32 32 | 9° 4'17 | 24° 9 | 2°12 | 12°33 | 15°30 | 1°42 | 1°17 | 23°54 | 13° 5 | 23°28 | 13°45 | 12°10 | 15°29 | 29°24 | M30 |
| T 31 | 16 36 29 | 10 I 1'41 | 5 M .57 | 4 Ⅱ 21 | 129544 | 16 ∺ 12 | 1 ∺ 46 | 1 M .14 | 23 8 57 | 13 米 5 | 23929 | 13 Y 43 | 12 ° 7 | 15 M 35 | 29 8 28 | T 31 |

Delta T = 18.74 sec Greg

Greg. Calendar

JUNE 1689 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q. | ď | 4 | ħ |)∤(| Ħ | В | v | v | ţ | ç | Day |
|------|----------|-------------------|-----------------|-----------------|--------|----------------|-----------------|---------------|----------------|---------------|--------|----------------|----------------|----------------|----------------|------|
| W 1 | 16 40 25 | 10 Ⅱ 59'04 | 17 M .45 | 6 Ⅱ 31 | 12953 | 16 ¥ 53 | 1) (49 | 1°R11 | 248 1 | 13) 6 | 23930 | 13°R38 | 12 ° 4 | 15 M 42 | 29 8 33 | W 1 |
| T 2 | 16 44 22 | 11°56'26 | 29°37 | 8°41 | 13° 0 | 17°34 | 1°53 | 1 M 8 | 24° 4 | 13° 6 | 23°32 | 13 Y 31 | 12° 0 | 15°49 | 29°38 | T 2 |
| F 3 | 16 48 18 | 12°53'47 | 11 ~ 34 | 10°53 | 13° 5 | 18°15 | 1°57 | 1° 6 | 24° 7 | 13° 7 | 23°33 | 13°21 | 11°57 | 15°55 | 29°42 | F 3 |
| S 4 | 16 52 15 | 13°51'07 | 23°39 | 13° 5 | 13° 7 | 18°56 | 2° 0 | 1° 3 | 24°11 | 13° 7 | 23°34 | 13°11 | 11°54 | 16° 2 | 29°47 | S 4 |
| S 5 | 16 56 11 | 14°48'27 | 5 ਰ 51 | 15°17 | 13°R 8 | 19°37 | 2° 3 | 1° 0 | 24°14 | 13° 7 | 23°35 | 12°59 | 11°51 | 16° 9 | 29°51 | S 5 |
| M 6 | 17 0 8 | 15°45'46 | 18°14 | 17°29 | 13° 5 | 20°17 | 2° 6 | 0°58 | 24°17 | 13° 8 | 23°37 | 12°49 | 11°48 | 16°15 | 29°56 | M 6 |
| T 7 | 17 4 4 | 16°43'04 | 0≈47 | 19°40 | 13° 1 | 20°58 | 2° 8 | 0°55 | 24°21 | 13° 8 | 23°38 | 12°40 | 11°44 | 16°22 | 0 I I 1 | T 7 |
| W 8 | 17 8 1 | 17°40'22 | 13°32 | 21°51 | 12°54 | 21°39 | 2°11 | 0°53 | 24°24 | 13° 8 | 23°40 | 12°33 | 11°41 | 16°29 | 0° 5 | W 8 |
| T 9 | 17 11 58 | 18°37'39 | 26°30 | 24° 1 | 12°44 | 22°19 | 2°13 | 0°50 | 24°27 | 13° 9 | 23°41 | 12°28 | 11°38 | 16°35 | 0°10 | T 9 |
| F 10 | 17 15 54 | 19°34'56 | 9 ∺ 45 | 26°10 | 12°32 | 23° 0 | 2°15 | 0°48 | 24°30 | 13° 9 | 23°42 | 12°26 | 11°35 | 16°42 | 0°14 | F 10 |
| S 11 | 17 19 51 | 20°32'12 | 23°17 | 28°17 | 12°18 | 23°40 | 2°17 | 0°46 | 24°34 | 13° 9 | 23°44 | 12°D26 | 11°32 | 16°49 | 0°19 | S 11 |
| S 12 | 17 23 47 | 21°29'29 | 7 Υ 9 | 0ණ23 | 12° 2 | 24°20 | 2°19 | 0°44 | 24°37 | 13° 9 | 23°45 | 12°R26 | 11°29 | 16°55 | 0°23 | S 12 |
| M13 | 17 27 44 | 22°26'45 | 21°21 | 2°28 | 11°43 | 25° 0 | 2°21 | 0°42 | 24°40 | 13° 9 | 23°47 | 12°26 | 11°25 | 17° 2 | 0°28 | M13 |
| T 14 | 17 31 40 | 23°24'00 | 5 8 53 | 4°30 | 11°22 | 25°40 | 2°22 | 0°40 | 24°43 | 13° 9 | 23°48 | 12°24 | 11°22 | 17° 9 | 0°32 | T 14 |
| W15 | 17 35 37 | 24°21'16 | 20°41 | 6°31 | 10°58 | 26°20 | 2°23 | 0°38 | 24°46 | 13°R 9 | 23°50 | 12°20 | 11°19 | 17°15 | 0°37 | W15 |
| T 16 | 17 39 33 | 25°18'31 | 5 Ⅱ 39 | 8°30 | 10°33 | 27° 0 | 2°24 | 0°37 | 24°50 | 13° 9 | 23°51 | 12°13 | 11°16 | 17°22 | 0°41 | T 16 |
| F 17 | 17 43 30 | 26°15'47 | 20°38 | 10°26 | 10° 6 | 27°39 | 2°25 | 0°35 | 24°53 | 13° 9 | 23°52 | 12° 4 | 11°13 | 17°29 | 0°45 | F 17 |
| S 18 | 17 47 27 | 27°13'01 | 5931 | 12°21 | 9°37 | 28°19 | 2°26 | 0°33 | 24°56 | 13° 9 | 23°54 | 11°54 | 11°10 | 17°35 | 0°50 | S 18 |
| S 19 | 17 51 23 | 28°10'16 | 20° 6 | 14°13 | 9° 6 | 28°58 | 2°26 | 0°32 | 24°59 | 13° 9 | 23°55 | 11°43 | 11° 6 | 17°42 | 0°54 | S 19 |
| M20 | 17 55 20 | 29° 7'30 | 4 Ω 19 | 16° 3 | 8°33 | 29°38 | 2°26 | 0°31 | 25° 2 | 13° 9 | 23°57 | 11°34 | 11° 3 | 17°49 | 0°58 | M20 |
| T 21 | 17 59 16 | 09 4'43 | 18° 4 | 17°51 | 7°59 | 0 Υ 17 | 2°R26 | 0°29 | 25° 5 | 13° 9 | 23°59 | 11°26 | 11° 0 | 17°55 | 1° 3 | T 21 |
| W22 | 18 3 13 | 1° 1'56 | 1 m 21 | 19°37 | 7°25 | 0°56 | 2°26 | 0°28 | 25° 8 | 13° 8 | 24° 0 | 11°21 | 10°57 | 18° 2 | 1° 7 | W22 |
| T 23 | 18 7 9 | 1°59'08 | 14°12 | 21°21 | 6°49 | 1°34 | 2°26 | 0°27 | 25°11 | 13° 8 | 24° 2 | 11°18 | 10°54 | 18° 9 | 1°11 | T 23 |
| F 24 | 18 11 6 | 2°56'20 | 26°40 | 23° 2 | 6°12 | 2°13 | 2°25 | 0°26 | 25°14 | 13° 8 | 24° 3 | 11°17 | 10°50 | 18°15 | 1°15 | F 24 |
| S 25 | 18 15 3 | 3°53'32 | 8 ≏ 51 | 24°41 | 5°35 | 2°52 | 2°25 | 0°25 | 25°17 | 13° 8 | 24° 5 | 11°17 | 10°47 | 18°22 | 1°20 | S 25 |
| S 26 | 18 18 59 | 4°50'43 | 20°48 | 26°18 | 4°57 | 3°30 | 2°24 | 0°25 | 25°20 | 13° 7 | 24° 6 | 11°16 | 10°44 | 18°29 | 1°24 | S 26 |
| M27 | 18 22 56 | 5°47'53 | 2MJ39 | 27°53 | 4°20 | 4° 8 | 2°23 | 0°24 | 25°23 | 13° 7 | 24° 8 | 11°15 | 10°41 | 18°35 | 1°28 | M27 |
| T 28 | 18 26 52 | 6°45'04 | 14°27 | 29°25 | 3°42 | 4°46 | 2°21 | 0°23 | 25°25 | 13° 6 | 24° 9 | 11°12 | 10°38 | 18°42 | 1°32 | T 28 |
| W29 | 18 30 49 | 7°42'14 | 26°18 | 0 Ω 56 | 3° 5 | 5°24 | 2°20 | 0°23 | 25°28 | 13° 6 | 24°11 | 11° 6 | 10°35 | 18°49 | 1°36 | W29 |
| T 30 | 18 34 45 | 8939'24 | 8 ~ 14 | 2Ω 24 | 29 | 6 Υ 2 | 2) 18 | 0 M 23 | 25 8 31 | 13 米 6 | 249513 | 10 Y 57 | 10 Y 31 | 18 M 55 | 1 Ⅱ 40 | T 30 |

Delta T = 18.69 sec

JULY 1689 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)ұ(| ¥ | Р | ß | ß | Ç | ę, | Day |
|--------------|--------------------|------------------------------|-------------------------------|----------------|-----------------|----------------|----------------|---------------|----------------|----------------------|----------------|----------------|----------------|------------------|---------------|--------------|
| F 1 | 18 38 42 | 9936'34 | 20 х 19 | 3 Ω 49 | 1°R54 | 6 Υ 40 | 2°R16 | 0°R22 | 25 8 34 | 13°R 5 | 249514 | 10°R46 | 10 Υ 28 | 19 M 2 | 1 ∏ 44 | F 1 |
| S 2 | 18 42 38 | 10°33'44 | 2 궁 35 | 5°12 | 19519 | 7°17 | 2) 14 | 0 M 22 | 25°36 | 13 ¥ 5 | 24°16 | 10 Y 33 | 10°25 | 19° 9 | 1°48 | S 2 |
| S 3 | 18 46 35 | 11°30'54 | 15° 1 | 6°33 | 0°47 | 7°54 | 2°12 | 0°D22 | 25°39 | 13° 4 | 24°17 | 10°20 | 10°22 | 19°15 | 1°52 | S 3 |
| M 4 | 18 50 32 | 12°28'05 | 27°40 | 7°52 | 0°15 | 8°31 | 2° 9 | 0°22 | 25°42 | 13° 3 | 24°19 | 10° 7 | 10°19 | 19°22 | 1°56 | M 4 |
| T 5 | 18 54 28 | 13°25'15 | 10≈30 | 9° 8 | 29∏45 | 9° 8 | 2° 7 | 0°22 | 25°44 | 13° 3 | 24°21 | 9°56 | 10°16 | 19°29 | 2° 0 | T 5 |
| W 6 | 18 58 25 | 14°22'26 | 23°31 | 10°21 | 29°18 | 9°45 | 2° 4 | 0°23 | 25°47 | 13° 2 | 24°22 | 9°48 | 10°12 | 19°35 | 2° 4 | W 6 |
| T 7 | 19 2 21 | 15°19'37 | 6) €44 | 11°32 | 28°52 | 10°21 | 2° 1 | 0°23 | 25°50 | 13° 1 | 24°24 | 9°42 | 10° 9 | 19°42 | 2° 7 | T 7 |
| F 8 | 19 6 18 | 16°16'49 | 20° 8 | 12°41 | 28°28 | 10°58 | 1°58 | 0°23 | 25°52 | 13° 1 | 24°26 | 9°39 | 10° 6 | 19°49 | 2°11 | F 8 |
| S 9 | 19 10 14 | 17°14'01 | 3 Ƴ 45 | 13°46 | 28° 6 | 11°34 | 1°54 | 0°24 | 25°55 | 13° 0 | 24°27 | 9°38 | 10° 3 | 19°55 | 2°15 | S 9 |
| S 10 | 19 14 11 | 18°11'13 | 17°35 | 14°49 | 27°47 | 12°10 | 1°51 | 0°24 | 25°57 | 12°59 | 24°29 | 9°38 | 10° 0 | 20° 2 | 2°19 | S 10 |
| M11 | 19 18 7 | 19° 8'27 | 1839 | 15°49 | 27°30 | 12°45 | 1°47 | 0°25 | 25°59 | 12°59 | 24°31 | 9°38 | 9°56 | 20° 9 | 2°22 | M11 |
| T 12 | 19 22 4 | 20° 5'41 | 15°56 | 16°46 | 27°15 | 13°21 | 1°43 | 0°26 | 26° 2 | 12°58 | 24°32 | 9°36 | 9°53 | 20°16 | 2°26 | T 12 |
| W13 | 19 26 1 | 21° 2'56 | 0Д25 | 17°40 | 27° 3 | 13°56 | 1°39 | 0°27 | 26° 4 | 12°57 | 24°34 | 9°32 | 9°50 | 20°22 | 2°29 | W13 |
| T 14 | 19 29 57 | 22° 0'12 | 15° 1 | 18°30 | 26°53 | 14°31 | 1°35 | 0°28 | 26° 6 | 12°56 | 24°35 | 9°25 | 9°47 | 20°29 | 2°33 | T 14 |
| F 15 | 19 33 54 | 22°57'28 | 29°39 | 19°17 | 26°45 | 15° 6 | 1°30 | 0°29 | 26° 9 | 12°55 | 24°37 | 9°16 | 9°44 | 20°36 | 2°36 | F 15 |
| S 16 | 19 37 50 | 23°54'45 | 149511 | 20° 1 | 26°40 | 15°40 | 1°26 | 0°30 | 26°11 | 12°54 | 24°39 | 9° 5 | 9°41 | 20°42 | 2°40 | S 16 |
| S 17 | 19 41 47 | 24°52'03 | 28°31 | 20°41 | 26°38 | 16°14 | 1°21 | 0°31 | 26°13 | 12°53 | 24°40 | 8°54 | 9°37 | 20°49 | 2°43 | S 17 |
| M18 | 19 45 43 | 25°49'21 | 12 Ω 32 | 21°17 | 26°D37 | 16°48 | 1°16 | 0°33 | 26°15 | 12°52 | 24°42 | 8°44 | 9°34 | 20°56 | 2°46 | M18 |
| T 19 | 19 49 40 | 26°46'40 | 26°11 | 21°49 | 26°39 | 17°22 | 1°11 | 0°34 | 26°17 | 12°51 | 24°44 | 8°36 | 9°31 | 21° 2 | 2°50 | T 19 |
| W20 | 19 53 36 | 27°43'59 | 9 m 25 | 22°17 | 26°43 | 17°55 | 1° 6 | 0°36 | 26°20 | 12°50 | 24°45 | 8°30 | 9°28 | 21° 9 | 2°53 | W20 |
| T 21 | 19 57 33 | 28°41'19 | 22°15 | 22°41 | 26°49 | 18°28 | 1° 0 | 0°38 | 26°22 | 12°49 | 24°47 | 8°27 | 9°25 | 21°16 | 2°56 | T 21 |
| F 22 S 23 | 20 1 30 20 5 26 | 29°38'39 0 Ω 35'59 | 4 <u>Ω</u> 44 16°56 | 23° 0 23°14 | 26°58 27° 8 | 19° 1 19°34 | 0°55 0°49 | 0°39 0°41 | 26°24 26°26 | 12°48 12°47 | 24°49 24°50 | 8°D26 8°26 | 9°22 9°18 | 21°22 21°29 | 2°59 3° 2 | F 22 S 23 |
| | | | | | | | | | | | | | | | | |
| S 24 | 20 9 23 | 1°33'20 | 28°55 | 23°24 | 27°21 | 20° 6 | 0°43 | 0°43 | 26°27 | 12°46 | 24°52 | 8°R27 | 9°15 | 21°36 | 3° 5 | S 24 |
| M25 | 20 13 19 | 2°30'42 | 10 M 47 | 23°R29 | 27°36 | 20°38 | 0°37 | 0°45 | 26°29 | 12°45 | 24°54 | 8°26 | 9°12 | 21°42 | 3° 8 | M25 |
| T 26 | 20 17 16 | 3°28'04 | 22°37 | 23°29 | 27°52 | 21°10 | 0°31 | 0°47 | 26°31 | 12°44 | 24°55 | 8°24 | 9° 9 | 21°49 | 3°11 | T 26 |
| W27 | 20 21 12 | 4°25'27 | 4 ∡ ³30 16°30 | 23°23 23°12 | 28°11 28°31 | 21°41 22°12 | 0°25 0°18 | 0°50 | 26°33 | 12°42 12°41 | 24°57 24°59 | 8°20 8°14 | 9° 6 9° 2 | 21°56 22° 2 | 3°14 3°17 | W27 T 28 |
| T 28 F 29 | 20 25 9 20 29 5 | 5°22'51 6°20'15 | 28°42 | 23°12 22°56 | 28°53 28°53 | 22°12 22°43 | 0°18 0°12 | 0°52 0°54 | 26°35 26°36 | 12°41 12°40 | 24°59 25° 0 | 8°14 8° 5 | 8°59 | 22° 2 | 3°17 3°20 | F 29 |
| S 30 | 20 29 3 | 7°17'40 | 11 궁 8 | 22°35 | 28 33 29°17 | 22 43 23°13 | 0° 5 | 0°57 | 26°38 | 12°39 | 25° 2 | 8 3 7°56 | 8°56 | 22°16 | 3°22 | S 30 |
| S 31 | 20 36 59 | 8Ω15'06 | 23 중 48 | 22Ω 9 | 29 I I42 | 23 Y 43 | 29 ≈ 59 | 1 M. 0 | 26 8 40 | 12) (37 | 259 3 | 7 Υ 45 | 8 Υ 53 | 22 TO 22 TL22 | 3 Ⅱ 25 | S 31 |
| 3 31 | 20 30 39 | 0061300 | 23048 | 2206 9 | 27Щ4 2 | 43 1 43 | 27 ~ 39 | TIIG U | 20040 | 14/(3/ | د نوټد ے | / 143 | 0133 | 4411 6 44 | эщгэ | 331 |

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Greg. Calendar

AUGUST 1689 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)f(| ¥ | В | ¥ | Ω | Ç | ę, | Day |
|------|----------|------------------|----------------|-----------------|--------|----------------|--------|------|---------------|----------------|--------|---------------|---------------|----------------|---------------|------|
| M 1 | 20 40 55 | 9Ω12'33 | 6≈44 | 21°R39 | 099 9 | 24 Y 13 | 29°R52 | 1M 2 | 26841 | 12°R36 | 2595 5 | 7°R35 | 8 Y 50 | 22 M 29 | 3 Ⅱ 28 | M 1 |
| T 2 | 20 44 52 | 10°10'01 | 19°54 | 21 0 3 | 0°37 | 24°42 | 29≈45 | 1° 5 | 26°43 | 12) 35 | 25° 7 | 7 Υ 26 | 8°47 | 22°36 | 3°30 | T 2 |
| W 3 | 20 48 48 | 11° 7'30 | 3 ∺ 17 | 20°24 | 1° 7 | 25°11 | 29°38 | 1° 8 | 26°44 | 12°33 | 25° 8 | 7°20 | 8°43 | 22°43 | 3°33 | W 3 |
| T 4 | 20 52 45 | 12° 5'00 | 16°52 | 19°42 | 1°39 | 25°39 | 29°31 | 1°11 | 26°46 | 12°32 | 25°10 | 7°16 | 8°40 | 22°49 | 3°35 | T 4 |
| F 5 | 20 56 41 | 13° 2'31 | 0 Υ 36 | 18°56 | 2°12 | 26° 7 | 29°24 | 1°14 | 26°47 | 12°31 | 25°11 | 7°14 | 8°37 | 22°56 | 3°38 | F 5 |
| S 6 | 21 0 38 | 14° 0'04 | 14°28 | 18° 8 | 2°46 | 26°35 | 29°16 | 1°17 | 26°48 | 12°29 | 25°13 | 7°D14 | 8°34 | 23° 3 | 3°40 | S 6 |
| S 7 | 21 434 | 14°57'38 | 28°28 | 17°19 | 3°21 | 27° 2 | 29° 9 | 1°20 | 26°50 | 12°28 | 25°15 | 7°15 | 8°31 | 23° 9 | 3°42 | S 7 |
| M 8 | 21 8 31 | 15°55'14 | 12 8 33 | 16°30 | 3°58 | 27°29 | 29° 2 | 1°24 | 26°51 | 12°27 | 25°16 | 7°R16 | 8°28 | 23°16 | 3°44 | M 8 |
| T 9 | 21 12 28 | 16°52'51 | 26°44 | 15°41 | 4°36 | 27°56 | 28°54 | 1°27 | 26°52 | 12°25 | 25°18 | 7°15 | 8°24 | 23°23 | 3°47 | T 9 |
| W10 | 21 16 24 | 17°50'30 | 10耳58 | 14°53 | 5°15 | 28°22 | 28°46 | 1°30 | 26°53 | 12°24 | 25°19 | 7°13 | 8°21 | 23°29 | 3°49 | W10 |
| T 11 | 21 20 21 | 18°48'10 | 25°13 | 14° 8 | 5°55 | 28°47 | 28°39 | 1°34 | 26°54 | 12°22 | 25°21 | 7° 9 | 8°18 | 23°36 | 3°51 | T 11 |
| F 12 | 21 24 17 | 19°45'52 | 9925 | 13°27 | 6°36 | 29°12 | 28°31 | 1°38 | 26°55 | 12°21 | 25°22 | 7° 3 | 8°15 | 23°43 | 3°53 | F 12 |
| S 13 | 21 28 14 | 20°43'36 | 23°31 | 12°49 | 7°19 | 29°37 | 28°23 | 1°41 | 26°56 | 12°19 | 25°24 | 6°56 | 8°12 | 23°49 | 3°55 | S 13 |
| S 14 | 21 32 10 | 21°41'21 | 7 Ω 26 | 12°17 | 8° 2 | 0 8 1 | 28°16 | 1°45 | 26°57 | 12°18 | 25°25 | 6°48 | 8° 8 | 23°56 | 3°56 | S 14 |
| M15 | 21 36 7 | 22°39'08 | 21° 5 | 11°50 | 8°46 | 0°25 | 28° 8 | 1°49 | 26°58 | 12°16 | 25°27 | 6°42 | 8° 5 | 24° 3 | 3°58 | M15 |
| T 16 | 21 40 4 | 23°36'55 | 4 Mp 28 | 11°30 | 9°31 | 0°48 | 28° 0 | 1°53 | 26°59 | 12°15 | 25°28 | 6°36 | 8° 2 | 24° 9 | 4° 0 | T 16 |
| W17 | 21 44 0 | 24°34'45 | 17°30 | 11°17 | 10°17 | 1°10 | 27°52 | 1°57 | 27° 0 | 12°13 | 25°30 | 6°33 | 7°59 | 24°16 | 4° 2 | W17 |
| T 18 | 21 47 57 | 25°32'35 | 0 ჲ 13 | 11°D11 | 11° 4 | 1°32 | 27°44 | 2° 1 | 27° 1 | 12°12 | 25°31 | 6°31 | 7°56 | 24°23 | 4° 3 | T 18 |
| F 19 | 21 51 53 | 26°30'27 | 12°39 | 11°13 | 11°51 | 1°54 | 27°36 | 2° 5 | 27° 1 | 12°10 | 25°33 | 6°D31 | 7°53 | 24°29 | 4° 5 | F 19 |
| S 20 | 21 55 50 | 27°28'20 | 24°49 | 11°23 | 12°40 | 2°14 | 27°28 | 2°10 | 27° 2 | 12° 8 | 25°34 | 6°32 | 7°49 | 24°36 | 4° 6 | S 20 |
| S 21 | 21 59 46 | 28°26'14 | 6 M .48 | 11°40 | 13°29 | 2°35 | 27°20 | 2°14 | 27° 3 | 12° 7 | 25°36 | 6°34 | 7°46 | 24°43 | 4°8 | S 21 |
| M22 | 22 3 43 | 29°24'10 | 18°41 | 12° 6 | 14°19 | 2°55 | 27°13 | 2°19 | 27° 3 | 12° 5 | 25°37 | 6°35 | 7°43 | 24°50 | 4° 9 | M22 |
| T 23 | 22 7 39 | 0 m 22'07 | 0 ₮ 32 | 12°39 | 15° 9 | 3°14 | 27° 5 | 2°23 | 27° 4 | 12° 4 | 25°39 | 6°R35 | 7°40 | 24°56 | 4°10 | T 23 |
| W24 | 22 11 36 | 1°20'06 | 12°26 | 13°21 | 16° 1 | 3°32 | 26°57 | 2°28 | 27° 4 | 12° 2 | 25°40 | 6°35 | 7°37 | 25° 3 | 4°11 | W24 |
| T 25 | 22 15 32 | 2°18'06 | 24°28 | 14° 9 | 16°52 | 3°50 | 26°49 | 2°32 | 27° 4 | 12° 0 | 25°41 | 6°33 | 7°34 | 25°10 | 4°12 | T 25 |
| F 26 | 22 19 29 | 3°16'07 | 6 ප 43 | 15° 6 | 17°45 | 4° 7 | 26°41 | 2°37 | 27° 5 | 11°59 | 25°43 | 6°29 | 7°30 | 25°16 | 4°14 | F 26 |
| S 27 | 22 23 26 | 4°14'10 | 19°14 | 16° 9 | 18°38 | 4°24 | 26°33 | 2°42 | 27° 5 | 11°57 | 25°44 | 6°24 | 7°27 | 25°23 | 4°15 | S 27 |
| S 28 | 22 27 22 | 5°12'14 | 2≈ 3 | 17°19 | 19°32 | 4°40 | 26°26 | 2°47 | 27° 5 | 11°55 | 25°45 | 6°19 | 7°24 | 25°30 | 4°15 | S 28 |
| M29 | 22 31 19 | 6°10'20 | 15°12 | 18°35 | 20°26 | 4°55 | 26°18 | 2°52 | 27° 6 | 11°54 | 25°47 | 6°14 | 7°21 | 25°36 | 4°16 | M29 |
| T 30 | 22 35 15 | 7° 8'27 | 28°40 | 19°57 | 21°21 | 5°10 | 26°10 | 2°57 | 27° 6 | 11°52 | 25°48 | 6°10 | 7°18 | 25°43 | 4°17 | T 30 |
| W31 | 22 39 12 | 8Mp 6'36 | 12 米 25 | 21 \O 24 | 229517 | 5 8 24 | 26≈ 3 | 3M 2 | 27 8 6 | 11 米 51 | 259549 | 6 ℃ 7 | 7 Υ 14 | 25 M 50 | 4 Ⅱ 18 | W31 |

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SEPTEMBER 1689 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)∤(| ¥ | В | U | v | Ç | Q K | Day |
|------|----------|-------------------|----------------|----------------|---------------|---------------|--------|---------------|----------------|------------------|-------|--------------|---------------|----------------|---------------|------|
| T 1 | 22 43 8 | 9 m) 4'46 | 26 ¥ 25 | 22 N 56 | 239513 | 5 8 37 | 25°R55 | 3 m 7 | 27°R 6 | 11°R49 | 25951 | 6°R 6 | 7 Υ 11 | 25 M 56 | 4 Ⅱ 18 | T 1 |
| F 2 | 22 47 5 | 10° 2'58 | 10 Y 36 | 24°32 | 24° 9 | 5°50 | 25≈48 | 3°12 | 27 8 6 | 11) (47 | 25°52 | 6°D 5 | 7° 8 | 26° 3 | 4°19 | F 2 |
| S 3 | 22 51 1 | 11° 1'13 | 24°53 | 26°12 | 25° 6 | 6° 2 | 25°40 | 3°17 | 27° 6 | 11°46 | 25°53 | 6 Υ 6 | 7° 5 | 26°10 | 4°20 | S 3 |
| S 4 | 22 54 58 | 11°59'29 | 9 8 13 | 27°55 | 26° 4 | 6°13 | 25°33 | 3°22 | 27° 6 | 11°44 | 25°54 | 6° 8 | 7° 2 | 26°16 | 4°20 | S 4 |
| M 5 | 22 58 55 | 12°57'48 | 23°31 | 29°41 | 27° 2 | 6°23 | 25°26 | 3°28 | 27° 6 | 11°42 | 25°56 | 6° 9 | 6°59 | 26°23 | 4°20 | M 5 |
| T 6 | 23 2 51 | 13°56'09 | 7∏46 | 1 m 28 | 28° 0 | 6°32 | 25°19 | 3°33 | 27° 5 | 11°41 | 25°57 | 6°R10 | 6°55 | 26°30 | 4°21 | T 6 |
| W 7 | 23 6 48 | 14°54'32 | 21°55 | 3°18 | 28°59 | 6°41 | 25°12 | 3°39 | 27° 5 | 11°39 | 25°58 | 6°10 | 6°52 | 26°37 | 4°21 | W 7 |
| T 8 | 23 10 44 | 15°52'57 | 5 9 57 | 5° 9 | 29°58 | 6°49 | 25° 5 | 3°44 | 27° 5 | 11°37 | 25°59 | 6° 9 | 6°49 | 26°43 | 4°21 | T 8 |
| F 9 | 23 14 41 | 16°51'24 | 19°48 | 7° 1 | 0 Ω 58 | 6°56 | 24°58 | 3°50 | 27° 4 | 11°36 | 26° 0 | 6° 7 | 6°46 | 26°50 | 4°21 | F 9 |
| S 10 | 23 18 37 | 17°49'53 | 3 Ω 29 | 8°53 | 1°58 | 7° 2 | 24°51 | 3°56 | 27° 4 | 11°34 | 26° 1 | 6° 5 | 6°43 | 26°57 | 4°R21 | S 10 |
| S 11 | 23 22 34 | 18°48'25 | 16°57 | 10°46 | 2°58 | 7° 8 | 24°45 | 4° 1 | 27° 4 | 11°32 | 26° 3 | 6° 2 | 6°40 | 27° 3 | 4°21 | S 11 |
| M12 | 23 26 30 | 19°46'58 | 0 m 11 | 12°39 | 3°59 | 7°12 | 24°38 | 4° 7 | 27° 3 | 11°31 | 26° 4 | 6° 0 | 6°36 | 27°10 | 4°21 | M12 |
| T 13 | 23 30 27 | 20°45'34 | 13°11 | 14°32 | 5° 1 | 7°16 | 24°32 | 4°13 | 27° 2 | 11°29 | 26° 5 | 5°58 | 6°33 | 27°17 | 4°21 | T 13 |
| W14 | 23 34 24 | 21°44'11 | 25°56 | 16°25 | 6° 2 | 7°19 | 24°26 | 4°19 | 27° 2 | 11°28 | 26° 6 | 5°57 | 6°30 | 27°23 | 4°21 | W14 |
| T 15 | 23 38 20 | 22°42'51 | 8 ₾ 26 | 18°17 | 7° 4 | 7°20 | 24°20 | 4°25 | 27° 1 | 11°26 | 26° 7 | 5°D57 | 6°27 | 27°30 | 4°20 | T 15 |
| F 16 | 23 42 17 | 23°41'32 | 20°44 | 20° 9 | 8° 6 | 7°21 | 24°14 | 4°31 | 27° 0 | 11°24 | 26° 8 | 5°57 | 6°24 | 27°37 | 4°20 | F 16 |
| S 17 | 23 46 13 | 24°40'15 | 2 M .50 | 22° 0 | 9° 9 | 7°R22 | 24° 8 | 4°37 | 27° 0 | 11°23 | 26° 9 | 5°58 | 6°20 | 27°43 | 4°19 | S 17 |
| S 18 | 23 50 10 | 25°39'00 | 14°47 | 23°50 | 10°12 | 7°21 | 24° 2 | 4°43 | 26°59 | 11°21 | 26°10 | 5°59 | 6°17 | 27°50 | 4°19 | S 18 |
| M19 | 23 54 6 | 26°37'47 | 26°38 | 25°40 | 11°15 | 7°19 | 23°57 | 4°49 | 26°58 | 11°20 | 26°11 | 6° 0 | 6°14 | 27°57 | 4°18 | M19 |
| T 20 | 23 58 3 | 27°36'35 | 8 ₹ 29 | 27°29 | 12°19 | 7°17 | 23°51 | 4°55 | 26°57 | 11°18 | 26°12 | 6° 1 | 6°11 | 28° 4 | 4°18 | T 20 |
| W21 | 0 1 59 | 28°35'26 | 20°22 | 29°16 | 13°22 | 7°13 | 23°46 | 5° 1 | 26°56 | 11°16 | 26°12 | 6° 1 | 6° 8 | 28°10 | 4°17 | W21 |
| T 22 | 0 5 56 | 29°34'18 | 2 3 23 | 1 | 14°27 | 7° 9 | 23°41 | 5° 8 | 26°55 | 11°15 | 26°13 | 6°R 2 | 6° 5 | 28°17 | 4°16 | T 22 |
| F 23 | 0 9 53 | 0 ₽ 33'12 | 14°36 | 2°50 | 15°31 | 7° 4 | 23°36 | 5°14 | 26°54 | 11°13 | 26°14 | 6° 1 | 6° 1 | 28°24 | 4°15 | F 23 |
| S 24 | 0 13 49 | 1°32'08 | 27° 6 | 4°35 | 16°36 | 6°58 | 23°32 | 5°20 | 26°53 | 11°12 | 26°15 | 6° 1 | 5°58 | 28°30 | 4°14 | S 24 |
| S 25 | 0 17 46 | 2°31'05 | 9≈57 | 6°19 | 17°40 | 6°51 | 23°27 | 5°27 | 26°52 | 11°10 | 26°16 | 6° 1 | 5°55 | 28°37 | 4°13 | S 25 |
| M26 | 0 21 42 | 3°30'04 | 23°10 | 8° 3 | 18°46 | 6°43 | 23°23 | 5°33 | 26°51 | 11° 9 | 26°17 | 6° 0 | 5°52 | 28°44 | 4°12 | M26 |
| T 27 | 0 25 39 | 4°29'05 | 6) €47 | 9°45 | 19°51 | 6°34 | 23°19 | 5°40 | 26°50 | 11° 7 | 26°17 | 6° 0 | 5°49 | 28°50 | 4°11 | T 27 |
| W28 | 0 29 35 | 5°28'08 | 20°47 | 11°27 | 20°57 | 6°25 | 23°15 | 5°46 | 26°48 | 11° 6 | 26°18 | 6° 0 | 5°45 | 28°57 | 4°10 | W28 |
| T 29 | 0 33 32 | 6°27'13 | 5Υ 8 | 13° 8 | 22° 3 | 6°15 | 23°11 | 5°53 | 26°47 | 11° 4 | 26°19 | 6° 0 | 5°42 | 29° 4 | 4° 8 | T 29 |
| F 30 | 0 37 28 | 7 ≏ 26'20 | 19 Y 43 | 14 ≏ 48 | 23 N 9 | 6 8 4 | 23≈ 7 | 5 M 59 | 26 8 46 | 11) 3 | 26920 | 6 Υ 0 | 5 Ƴ 39 | 29 M 10 | 4 II 7 | F 30 |

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Greg. Calendar

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| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | Р | ₽. | Ω | Ç | Š. | Day |
|------|---------|-------------------|-----------------|----------------|-----------------|----------------|--------|----------------|----------------|----------------|--------|---------------|---------------|-----------------|----------------|------|
| S 1 | 0 41 25 | 8 ₾ 25'29 | 4 8 28 | 16 ≏ 27 | 24 \O 15 | 5°R52 | 23°R 4 | 6M 6 | 26°R44 | 11°R 1 | 26920 | 6°R 0 | 5 Υ 36 | 29 IL 17 | 4°R 6 | S 1 |
| S 2 | 0 45 22 | 9°24'40 | 19°15 | 18° 5 | 25°22 | 5 8 39 | 23≈ 0 | 6°13 | 26 8 43 | 11 米 0 | 26°21 | 5 Υ 59 | 5°33 | 29°24 | 4 I I 4 | S 2 |
| M 3 | 0 49 18 | 10°23'53 | 3耳56 | 19°43 | 26°29 | 5°26 | 22°57 | 6°19 | 26°41 | 10°59 | 26°22 | 5°59 | 5°30 | 29°31 | 4° 3 | M 3 |
| T 4 | 0 53 15 | 11°23'09 | 18°27 | 21°20 | 27°36 | 5°11 | 22°54 | 6°26 | 26°40 | 10°57 | 26°22 | 5°59 | 5°26 | 29°37 | 4° 1 | T 4 |
| W 5 | 0 57 11 | 12°22'28 | 2 95 43 | 22°56 | 28°43 | 4°57 | 22°52 | 6°33 | 26°38 | 10°56 | 26°23 | 5°58 | 5°23 | 29°44 | 3°59 | W 5 |
| T 6 | 1 1 8 | 13°21'49 | 16°42 | 24°31 | 29°51 | 4°41 | 22°49 | 6°40 | 26°37 | 10°55 | 26°23 | 5°D58 | 5°20 | 29°51 | 3°58 | T 6 |
| F 7 | 1 5 4 | 14°21'12 | $0\Omega_{23}$ | 26° 6 | 0 m 58 | 4°25 | 22°47 | 6°46 | 26°35 | 10°53 | 26°24 | 5°58 | 5°17 | 29°57 | 3°56 | F 7 |
| S 8 | 1 9 1 | 15°20'37 | 13°46 | 27°40 | 2° 6 | 4° 8 | 22°45 | 6°53 | 26°33 | 10°52 | 26°24 | 5°59 | 5°14 | 0 水 4 | 3°54 | S 8 |
| S 9 | 1 12 57 | 16°20'05 | 26°53 | 29°13 | 3°14 | 3°51 | 22°43 | 7° 0 | 26°32 | 10°51 | 26°25 | 6° 0 | 5°11 | 0°11 | 3°52 | S 9 |
| M10 | 1 16 54 | 17°19'34 | 9 m /44 | 0 M .46 | 4°23 | 3°33 | 22°41 | 7° 7 | 26°30 | 10°49 | 26°25 | 6° 1 | 5° 7 | 0°17 | 3°50 | M10 |
| T 11 | 1 20 51 | 18°19'06 | 22°22 | 2°18 | 5°31 | 3°14 | 22°40 | 7°14 | 26°28 | 10°48 | 26°26 | 6° 2 | 5° 4 | 0°24 | 3°48 | T 11 |
| W12 | 1 24 47 | 19°18'40 | 4 ≏ 49 | 3°49 | 6°40 | 2°56 | 22°38 | 7°21 | 26°26 | 10°47 | 26°26 | 6°R 2 | 5° 1 | 0°31 | 3°46 | W12 |
| T 13 | 1 28 44 | 20°18'17 | 17° 5 | 5°20 | 7°49 | 2°36 | 22°37 | 7°28 | 26°24 | 10°46 | 26°26 | 6° 2 | 4°58 | 0°38 | 3°44 | T 13 |
| F 14 | 1 32 40 | 21°17'55 | 29°11 | 6°50 | 8°58 | 2°17 | 22°36 | 7°35 | 26°22 | 10°45 | 26°27 | 6° 1 | 4°55 | 0°44 | 3°41 | F 14 |
| S 15 | 1 36 37 | 22°17'35 | 11 M .11 | 8°19 | 10° 7 | 1°57 | 22°35 | 7°42 | 26°21 | 10°44 | 26°27 | 5°59 | 4°51 | 0°51 | 3°39 | S 15 |
| S 16 | 1 40 33 | 23°17'18 | 23° 5 | 9°48 | 11°16 | 1°37 | 22°35 | 7°49 | 26°19 | 10°42 | 26°27 | 5°56 | 4°48 | 0°58 | 3°37 | S 16 |
| M17 | 1 44 30 | 24°17'02 | 4 ₹ 55 | 11°16 | 12°26 | 1°17 | 22°35 | 7°56 | 26°17 | 10°41 | 26°28 | 5°53 | 4°45 | 1° 4 | 3°34 | M17 |
| T 18 | 1 48 26 | 25°16'48 | 16°45 | 12°43 | 13°35 | 0°56 | 22°D35 | 8° 3 | 26°15 | 10°40 | 26°28 | 5°50 | 4°42 | 1°11 | 3°32 | T 18 |
| W19 | 1 52 23 | 26°16'36 | 28°38 | 14°10 | 14°45 | 0°36 | 22°35 | 8°10 | 26°12 | 10°39 | 26°28 | 5°47 | 4°39 | 1°18 | 3°29 | W19 |
| T 20 | 1 56 20 | 27°16'26 | 10 궁 37 | 15°36 | 15°55 | 0°15 | 22°35 | 8°17 | 26°10 | 10°38 | 26°28 | 5°45 | 4°36 | 1°24 | 3°27 | T 20 |
| F 21 | 2 0 16 | 28°16'17 | 22°47 | 17° 1 | 17° 5 | 29 Y 55 | 22°35 | 8°24 | 26° 8 | 10°37 | 26°29 | 5°D44 | 4°32 | 1°31 | 3°24 | F 21 |
| S 22 | 2 4 13 | 29°16'10 | 5 ≈ 12 | 18°25 | 18°15 | 29°34 | 22°36 | 8°31 | 26° 6 | 10°36 | 26°29 | 5°44 | 4°29 | 1°38 | 3°22 | S 22 |
| S 23 | 2 8 9 | 0 M .16'05 | 17°56 | 19°49 | 19°26 | 29°14 | 22°37 | 8°39 | 26° 4 | 10°35 | 26°29 | 5°45 | 4°26 | 1°45 | 3°19 | S 23 |
| M24 | 2 12 6 | 1°16'01 | 1 ∺ 4 | 21°12 | 20°36 | 28°54 | 22°38 | 8°46 | 26° 2 | 10°34 | 26°29 | 5°47 | 4°23 | 1°51 | 3°16 | M24 |
| T 25 | 2 16 2 | 2°15'59 | 14°38 | 22°34 | 21°47 | 28°34 | 22°40 | 8°53 | 25°59 | 10°33 | 26°29 | 5°48 | 4°20 | 1°58 | 3°13 | T 25 |
| W26 | 2 19 59 | 3°15'58 | 28°40 | 23°54 | 22°58 | 28°14 | 22°41 | 9° 0 | 25°57 | 10°33 | 26°29 | 5°R50 | 4°17 | 2° 5 | 3°11 | W26 |
| T 27 | 2 23 55 | 4°16'00 | 13 ° 8 | 25°14 | 24° 9 | 27°55 | 22°43 | 9° 7 | 25°55 | 10°32 | 26°R29 | 5°49 | 4°13 | 2°11 | 3° 8 | T 27 |
| F 28 | 2 27 52 | 5°16'03 | 27°58 | 26°33 | 25°20 | 27°36 | 22°45 | 9°14 | 25°53 | 10°31 | 26°29 | 5°48 | 4°10 4° 7 | 2°18 | 3° 5 3° 2 | F 28 |
| S 29 | 2 31 48 | 6°16'08 | 138 3 | 27°50 | 26°31 | 27°17 | 22°47 | 9°22 | 25°50 | 10°30 | 26°29 | 5°45 | | 2°25 | | S 29 |
| S 30 | 2 35 45 | 7°16'14 | 28°14 | 29° 6 | 27°42 | 26°59 | 22°49 | 9°29 | 25°48 | 10°30 | 26°29 | 5°41 | 4° 4 | 2°31 | 2°59 | S 30 |
| M31 | 2 39 42 | 8M16'23 | 13 Ⅱ 20 | 0 才 21 | 28 m 53 | 26 Y 42 | 22≈52 | 9 M .36 | 25 8 46 | 10 ∺ 29 | 26929 | 5 Υ 36 | 4Υ 1 | 2 ₹ 38 | 2耳56 | M31 |

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NOVEMBER 1689 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)Å(| # | Р | Ŋ | v | Ç | Q K | Day |
|------|---------|-------------------|----------------|-----------------|---------------|----------------|-------|----------------|--------|----------------|--------|---------------|---------------|---------------|----------------|------|
| T 1 | 2 43 38 | 9 M 16'34 | 28 I I3 | 1 ∡ 734 | <u>0</u> ද | 26°R24 | 22≈54 | 9 M .43 | 25°R43 | 10°R28 | 26°R29 | 5°R32 | 3 Υ57 | 2 ₹ 45 | 2°R53 | T 1 |
| W 2 | 2 47 35 | 10°16'47 | 129545 | 2°45 | 1°16 | 26 Y 8 | 22°57 | 9°50 | 25841 | 10 ∺ 27 | 269529 | 5 Υ 28 | 3°54 | 2°52 | 2∏50 | W 2 |
| T 3 | 2 51 31 | 11°17'02 | 26°53 | 3°54 | 2°28 | 25°52 | 23° 0 | 9°58 | 25°39 | 10°27 | 26°28 | 5°25 | 3°51 | 2°58 | 2°47 | T 3 |
| F 4 | 2 55 28 | 12°17'19 | 10 Ω 35 | 5° 0 | 3°40 | 25°36 | 23° 4 | 10° 5 | 25°36 | 10°26 | 26°28 | 5°D24 | 3°48 | 3° 5 | 2°43 | F 4 |
| S 5 | 2 59 24 | 13°17'38 | 23°53 | 6° 4 | 4°52 | 25°22 | 23° 7 | 10°12 | 25°34 | 10°26 | 26°28 | 5°25 | 3°45 | 3°12 | 2°40 | S 5 |
| S 6 | 3 3 21 | 14°17'59 | 6 m /48 | 7° 5 | 6° 4 | 25° 8 | 23°11 | 10°19 | 25°31 | 10°25 | 26°28 | 5°26 | 3°42 | 3°18 | 2°37 | S 6 |
| M 7 | 3 7 18 | 15°18'22 | 19°26 | 8° 3 | 7°16 | 24°54 | 23°15 | 10°26 | 25°29 | 10°25 | 26°28 | 5°28 | 3°38 | 3°25 | 2°34 | M 7 |
| T 8 | 3 11 14 | 16°18'47 | 1 ≏ 48 | 8°57 | 8°28 | 24°41 | 23°19 | 10°34 | 25°26 | 10°24 | 26°27 | 5°R29 | 3°35 | 3°32 | 2°30 | T 8 |
| W 9 | 3 15 11 | 17°19'14 | 14° 0 | 9°47 | 9°41 | 24°29 | 23°23 | 10°41 | 25°24 | 10°24 | 26°27 | 5°28 | 3°32 | 3°38 | 2°27 | W 9 |
| T 10 | 3 19 7 | 18°19'42 | 26° 3 | 10°32 | 10°53 | 24°18 | 23°27 | 10°48 | 25°21 | 10°23 | 26°27 | 5°26 | 3°29 | 3°45 | 2°24 | T 10 |
| F 11 | 3 23 4 | 19°20'12 | 8 M 0 | 11°12 | 12° 6 | 24° 8 | 23°32 | 10°55 | 25°19 | 10°23 | 26°26 | 5°21 | 3°26 | 3°52 | 2°20 | F 11 |
| S 12 | 3 27 0 | 20°20'44 | 19°53 | 11°46 | 13°18 | 23°58 | 23°37 | 11° 2 | 25°16 | 10°23 | 26°26 | 5°15 | 3°23 | 3°59 | 2°17 | S 12 |
| S 13 | 3 30 57 | 21°21'18 | 1 √ 45 | 12°13 | 14°31 | 23°49 | 23°42 | 11° 9 | 25°14 | 10°23 | 26°25 | 5° 6 | 3°19 | 4° 5 | 2°14 | S 13 |
| M14 | 3 34 53 | 22°21'53 | 13°35 | 12°33 | 15°44 | 23°41 | 23°47 | 11°16 | 25°11 | 10°22 | 26°25 | 4°57 | 3°16 | 4°12 | 2°10 | M14 |
| T 15 | 3 38 50 | 23°22'29 | 2 <u>5</u> °27 | 12°45 | 16°56 | 23°34 | 23°52 | 11°24 | 25° 9 | 10°22 | 26°24 | 4°47 | 3°13 | 4°19 | 2° 7 | T 15 |
| W16 | 3 42 47 | 24°23'07 | 7 궁 22 | 12°R48 | 18° 9 | 23°28 | 23°58 | 11°31 | 25° 6 | 10°22 | 26°24 | 4°38 | 3°10 | 4°25 | 2° 3 | W16 |
| T 17 | 3 46 43 | 25°23'46 | 19°23 | 12°42 | 19°22 | 23°22 | 24° 3 | 11°38 | 25° 4 | 10°22 | 26°23 | 4°30 | 3° 7 | 4°32 | 2° 0 | T 17 |
| F 18 | 3 50 40 | 26°24'26 | 1≈32 | 12°25 | 20°35 | 23°17 | 24° 9 | 11°45 | 25° 1 | 10°22 | 26°23 | 4°25 | 3° 3 | 4°39 | 1°56 | F 18 |
| S 19 | 3 54 36 | 27°25'08 | 13°54 | 11°58 | 21°49 | 23°14 | 24°15 | 11°52 | 24°59 | 10°21 | 26°22 | 4°22 | 3° 0 | 4°46 | 1°53 | S 19 |
| S 20 | 3 58 33 | 28°25'50 | 26°32 | 11°20 | 23° 2 | 23°10 | 24°22 | 11°59 | 24°56 | 10°21 | 26°22 | 4°D20 | 2°57 | 4°52 | 1°49 | S 20 |
| M21 | 4 2 29 | 29°26'34 | 9 ∺ 31 | 10°31 | 24°15 | 23° 8 | 24°28 | 12° 6 | 24°54 | 10°D21 | 26°21 | 4°21 | 2°54 | 4°59 | 1°46 | M21 |
| T 22 | 4 6 26 | 0 ∡ 127′18 | 22°55 | 9°32 | 25°28 | 23° 7 | 24°35 | 12°13 | 24°51 | 10°21 | 26°21 | 4°22 | 2°51 | 5° 6 | 1°42 | T 22 |
| W23 | 4 10 22 | 1°28'04 | 6 Υ 46 | 8°24 | 26°42 | 23°D 6 | 24°41 | 12°20 | 24°49 | 10°21 | 26°20 | 4°R22 | 2°48 | 5°12 | 1°39 | W23 |
| T 24 | 4 14 19 | 2°28'50 | 21° 6 | 7° 9 | 27°55 | 23° 6 | 24°48 | 12°27 | 24°46 | 10°22 | 26°19 | 4°21 | 2°44 | 5°19 | 1°35 | T 24 |
| F 25 | 4 18 16 | 3°29'38 | 5 8 53 | 5°49 | 29° 9 | 23° 7 | 24°55 | 12°34 | 24°44 | 10°22 | 26°18 | 4°17 | 2°41 | 5°26 | 1°32 | F 25 |
| S 26 | 4 22 12 | 4°30'27 | 21° 1 | 4°27 | 0 M 22 | 23° 9 | 25° 2 | 12°40 | 24°41 | 10°22 | 26°18 | 4°11 | 2°38 | 5°33 | 1°28 | S 26 |
| S 27 | 4 26 9 | 5°31'16 | 6П20 | 3° 5 | 1°36 | 23°12 | 25°10 | 12°47 | 24°39 | 10°22 | 26°17 | 4° 3 | 2°35 | 5°39 | 1°25 | S 27 |
| M28 | 4 30 5 | 6°32'07 | 21°41 | 1°45 | 2°49 | 23°15 | 25°17 | 12°54 | 24°36 | 10°22 | 26°16 | 3°53 | 2°32 | 5°46 | 1°21 | M28 |
| T 29 | 4 34 2 | 7°33'00 | 6951 | 0°32 | 4° 3 | 23°19 | 25°25 | 13° 1 | 24°34 | 10°23 | 26°15 | 3°43 | 2°29 | 5°53 | 1°18 | T 29 |
| W30 | 4 37 58 | 8 . ₹33'53 | 219541 | 29 IL 26 | 5 M 17 | 23 Y 24 | 25≈33 | 13 M 8 | 24831 | 10 ∺ 23 | 269915 | 3 Υ 35 | 2 Υ 25 | 5 ₹ 59 | 1 I I14 | W30 |

Delta T = 18.49 sec

Greg. Calendar

| DECEMBER 1689 GC | 00:00 UT |
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| DECEMBER 1089 GC | 00:00 01 |

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | Р | v | Ω | Ç | Š | Day |
|------|---------|-------------------|-----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|--------|---------------|---------------|----------------|----------------|------|
| T 1 | 4 41 55 | 9 ∡ ³34'48 | 6 N 3 | 28°R30 | 6 M .31 | 23 Y 29 | 25≈41 | 13 M .14 | 24°R29 | 10 米 23 | 26°R14 | 3°R28 | 2 Υ 22 | 6 ₹ 1 6 | 1°R11 | T 1 |
| F 2 | 4 45 51 | 10°35'44 | 19°55 | 27 M 44 | 7°45 | 23°36 | 25°49 | 13°21 | 24827 | 10°24 | 269513 | 3 Υ 24 | 2°19 | 6°13 | 1 II 8 | F 2 |
| S 3 | 4 49 48 | 11°36'41 | 3 m 18 | 27°10 | 8°59 | 23°43 | 25°57 | 13°28 | 24°24 | 10°24 | 26°12 | 3°22 | 2°16 | 6°19 | 1° 4 | S 3 |
| S 4 | 4 53 45 | 12°37'39 | 16°14 | 26°47 | 10°13 | 23°50 | 26° 5 | 13°34 | 24°22 | 10°24 | 26°11 | 3°D22 | 2°13 | 6°26 | 1° 1 | S 4 |
| M 5 | 4 57 41 | 13°38'39 | 28°47 | 26°36 | 11°27 | 23°58 | 26°14 | 13°41 | 24°20 | 10°25 | 26°10 | 3°R22 | 2° 9 | 6°33 | 0°57 | M 5 |
| T 6 | 5 138 | 14°39'40 | 11 ♀ 4 | 26°D34 | 12°41 | 24° 7 | 26°23 | 13°47 | 24°17 | 10°25 | 26° 9 | 3°22 | 2° 6 | 6°40 | 0°54 | T 6 |
| W 7 | 5 5 34 | 15°40'41 | 23° 7 | 26°43 | 13°55 | 24°17 | 26°32 | 13°54 | 24°15 | 10°26 | 26° 8 | 3°20 | 2° 3 | 6°46 | 0°51 | W 7 |
| T 8 | 5 9 31 | 16°41'44 | 5 m 3 | 27° 1 | 15° 9 | 24°27 | 26°40 | 14° 0 | 24°13 | 10°26 | 26° 7 | 3°15 | 2° 0 | 6°53 | 0°47 | T 8 |
| F 9 | 5 13 27 | 17°42'48 | 16°54 | 27°28 | 16°23 | 24°38 | 26°50 | 14° 7 | 24°10 | 10°27 | 26° 6 | 3° 8 | 1°57 | 7° 0 | 0°44 | F 9 |
| S 10 | 5 17 24 | 18°43'53 | 28°44 | 28° 2 | 17°37 | 24°50 | 26°59 | 14°13 | 24° 8 | 10°28 | 26° 5 | 2°58 | 1°54 | 7° 6 | 0°41 | S 10 |
| S 11 | 5 21 20 | 19°44'58 | 10 ∡ 35 | 28°42 | 18°52 | 25° 2 | 27° 8 | 14°19 | 24° 6 | 10°28 | 26° 4 | 2°45 | 1°50 | 7°13 | 0°37 | S 11 |
| M12 | 5 25 17 | 20°46'05 | 2 <u>2</u> °28 | 29°29 | 20° 6 | 25°15 | 27°18 | 14°26 | 24° 4 | 10°29 | 26° 3 | 2°30 | 1°47 | 7°20 | 0°34 | M12 |
| T 13 | 5 29 14 | 21°47'11 | 4 궁 25 | 0 ₮ 20 | 21°20 | 25°28 | 27°27 | 14°32 | 24° 2 | 10°30 | 26° 2 | 2°15 | 1°44 | 7°27 | 0°31 | T 13 |
| W14 | 5 33 10 | 22°48'19 | 16°27 | 1°17 | 22°35 | 25°42 | 27°37 | 14°38 | 23°59 | 10°31 | 26° 1 | 2° 1 | 1°41 | 7°33 | 0°28 | W14 |
| T 15 | 5 37 7 | 23°49'27 | 28°35 | 2°17 | 23°49 | 25°57 | 27°47 | 14°44 | 23°57 | 10°31 | 26° 0 | 1°49 | 1°38 | 7°40 | 0°24 | T 15 |
| F 16 | 5 41 3 | 24°50'35 | 10≈51 | 3°21 | 25° 3 | 26°12 | 27°57 | 14°50 | 23°55 | 10°32 | 25°59 | 1°39 | 1°35 | 7°47 | 0°21 | F 16 |
| S 17 | 5 45 0 | 25°51'43 | 23°17 | 4°28 | 26°18 | 26°27 | 28° 7 | 14°56 | 23°53 | 10°33 | 25°58 | 1°33 | 1°31 | 7°53 | 0°18 | S 17 |
| S 18 | 5 48 56 | 26°52'52 | 5) 57 | 5°38 | 27°32 | 26°43 | 28°17 | 15° 2 | 23°51 | 10°34 | 25°57 | 1°30 | 1°28 | 8° 0 | 0°15 | S 18 |
| M19 | 5 52 53 | 27°54'01 | 18°52 | 6°50 | 28°47 | 27° 0 | 28°28 | 15° 8 | 23°49 | 10°35 | 25°56 | 1°28 | 1°25 | 8° 7 | 0°12 | M19 |
| T 20 | 5 56 50 | 28°55'09 | 2 Υ 8 | 8° 5 | 0 才 1 | 27°17 | 28°38 | 15°14 | 23°47 | 10°36 | 25°55 | 1°28 | 1°22 | 8°14 | 0° 9 | T 20 |
| W21 | 6 0 46 | 2 <u>9°</u> 56'18 | 15°47 | 9°21 | 1°16 | 27°35 | 28°49 | 15°20 | 23°45 | 10°37 | 25°53 | 1°28 | 1°19 | 8°20 | 0° 6 | W21 |
| T 22 | 6 4 43 | 0 ප 57'27 | 29°52 | 10°39 | 2°30 | 27°53 | 29° 0 | 15°26 | 23°44 | 10°38 | 25°52 | 1°26 | 1°15 | 8°27 | 0° 4 | T 22 |
| F 23 | 6 8 39 | 1°58'36 | 14822 | 11°58 | 3°45 | 28°12 | 29°10 | 15°31 | 23°42 | 10°39 | 25°51 | 1°22 | 1°12 | 8°34 | 0° 1 | F 23 |
| S 24 | 6 12 36 | 2°59'45 | 29°14 | 13°19 | 5° 0 | 28°31 | 29°21 | 15°37 | 23°40 | 10°40 | 25°50 | 1°15 | 1° 9 | 8°40 | 29 8 58 | S 24 |
| S 25 | 6 16 32 | 4° 0'54 | 14∏23 | 14°41 | 6°14 | 28°50 | 29°32 | 15°43 | 23°38 | 10°41 | 25°49 | 1° 5 | 1° 6 | 8°47 | 29°55 | S 25 |
| M26 | 6 20 29 | 5° 2'03 | 29°38 | 16° 4 | 7°29 | 29°10 | 29°44 | 15°48 | 23°37 | 10°42 | 25°47 | 0°53 | 1° 3 | 8°54 | 29°52 | M26 |
| T 27 | 6 24 25 | 6° 3'12 | 149548 | 17°28 | 8°44 | 29°30 | 29°55 | 15°54 | 23°35 | 10°44 | 25°46 | 0°41 | 1° 0 | 9° 1 | 29°50 | T 27 |
| W28 | 6 28 22 | 7° 4'21 | 29°43 | 18°52 | 9°58 | 29°51 | 0 米 6 | 15°59 | 23°33 | 10°45 | 25°45 | 0°30 | 0°56 | 9° 7 | 29°47 | W28 |
| T 29 | 6 32 19 | 8° 5'30 | 14 Ω 13 | 20°18 | 11°13 | 0812 | 0°18 | 16° 4 | 23°32 | 10°46 | 25°44 | 0°22 | 0°53 | 9°14 | 29°45 | T 29 |
| F 30 | 6 36 15 | 9° 6'39 | 28°15 | 21°44 | 12°28 | 0°33 | 0°29 | 16°10 | 23°30 | 10°47 | 25°42 | 0°16 | 0°50 | 9°21 | 29°42 | F 30 |
| S 31 | 6 40 12 | 10 る 7'49 | 11 M)47 | 23 × 11 | 13 ∡ 42 | 0 8 55 | 0) €41 | 16 M .15 | 23 8 29 | 10 米 49 | 259541 | 0 Υ 13 | 0 Υ 47 | 9 ∡ 27 | 29 8 40 | S 31 |

Delta T = 18.46 sec

JANUARY 1690 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q. | ð | 4 | ħ |)∤(| ¥ | Р | u | v | ţ | ę, | Day |
|------|---------|-------------------|----------------|----------------|-----------------|----------------|---------------|-----------------|----------------|------------------|--------|----------------|----------------|----------------|----------------|------|
| S 1 | 6 44 8 | 11 る 8'58 | 24 m 50 | 24 × 38 | 14 ×7 57 | 1817 | 0) 52 | 16 M 20 | 23°R27 | 10 ¥ 50 | 25°R40 | 0°R11 | 0 Υ 44 | 9 ∡ ³34 | 29°R37 | S 1 |
| M 2 | 6 48 5 | 12°10'08 | 7 ≏ 28 | 26° 7 | 16°12 | 1°40 | 1° 4 | 16°25 | 23 8 26 | 10°51 | 25939 | 0 Υ 11 | 0°41 | 9°41 | 29 8 35 | M 2 |
| T 3 | 6 52 1 | 13°11'18 | 19°46 | 27°35 | 17°27 | 2° 3 | 1°16 | 16°30 | 23°24 | 10°53 | 25°37 | 0°11 | 0°37 | 9°48 | 29°33 | T 3 |
| W 4 | 6 55 58 | 14°12'28 | 1 M .50 | 29° 5 | 18°42 | 2°26 | 1°28 | 16°35 | 23°23 | 10°54 | 25°36 | 0°10 | 0°34 | 9°54 | 29°31 | W 4 |
| T 5 | 6 59 54 | 15°13'38 | 13°44 | 0る 34 | 19°56 | 2°50 | 1°40 | 16°40 | 23°22 | 10°56 | 25°35 | 0° 6 | 0°31 | 10° 1 | 29°28 | T 5 |
| F 6 | 7 3 51 | 16°14'48 | 25°34 | 2° 5 | 21°11 | 3°14 | 1°52 | 16°45 | 23°20 | 10°57 | 25°33 | 29 米 59 | 0°28 | 10° 8 | 29°26 | F 6 |
| S 7 | 7 7 48 | 17°15'58 | 7 ,₹ 24 | 3°36 | 22°26 | 3°38 | 2° 5 | 16°49 | 23°19 | 10°59 | 25°32 | 29°51 | 0°25 | 10°14 | 29°24 | S 7 |
| S 8 | 7 11 44 | 18°17'08 | 19°16 | 5° 7 | 23°41 | 4° 2 | 2°17 | 16°54 | 23°18 | 11° 0 | 25°31 | 29°39 | 0°21 | 10°21 | 29°22 | S 8 |
| M 9 | 7 15 41 | 19°18'17 | 1 る 14 | 6°39 | 24°56 | 4°27 | 2°30 | 16°59 | 23°17 | 11° 2 | 25°29 | 29°26 | 0°18 | 10°28 | 29°20 | M 9 |
| T 10 | 7 19 37 | 20°19'26 | 13°18 | 8°11 | 26°11 | 4°52 | 2°42 | 17° 3 | 23°16 | 11° 3 | 25°28 | 29°12 | 0°15 | 10°35 | 29°19 | T 10 |
| W11 | 7 23 34 | 21°20'35 | 25°31 | 9°44 | 27°25 | 5°18 | 2°55 | 17° 7 | 23°15 | 11° 5 | 25°27 | 28°59 | 0°12 | 10°41 | 29°17 | W11 |
| T 12 | 7 27 30 | 22°21'43 | 7≈52 | 11°17 | 28°40 | 5°44 | 3° 7 | 17°12 | 23°14 | 11° 6 | 25°25 | 28°47 | 0° 9 | 10°48 | 29°15 | T 12 |
| F 13 | 7 31 27 | 23°22'50 | 20°22 | 12°51 | 29°55 | 6°10 | 3°20 | 17°16 | 23°13 | 11°8 | 25°24 | 28°39 | 0° 6 | 10°55 | 29°13 | F 13 |
| S 14 | 7 35 24 | 24°23'57 | 3 ∺ 2 | 14°25 | 1名10 | 6°36 | 3°33 | 17°20 | 23°12 | 11°10 | 25°23 | 28°33 | 0° 2 | 11° 1 | 29°12 | S 14 |
| S 15 | 7 39 20 | 25°25'03 | 15°53 | 16° 0 | 2°25 | 7° 2 | 3°46 | 17°24 | 23°11 | 11°12 | 25°21 | 28°30 | 29 米 59 | 11°8 | 29°10 | S 15 |
| M16 | 7 43 17 | 26°26'08 | 28°57 | 17°36 | 3°40 | 7°29 | 3°59 | 17°28 | 23°10 | 11°13 | 25°20 | 28°D29 | 29°56 | 11°15 | 29° 9 | M16 |
| T 17 | 7 47 13 | 27°27'12 | 12 Y 16 | 19°12 | 4°55 | 7°56 | 4°12 | 17°32 | 23°10 | 11°15 | 25°19 | 28°30 | 29°53 | 11°22 | 29° 8 | T 17 |
| W18 | 7 51 10 | 28°28'15 | 25°52 | 20°49 | 6°10 | 8°23 | 4°25 | 17°36 | 23° 9 | 11°17 | 25°17 | 28°R30 | 29°50 | 11°28 | 29° 6 | W18 |
| T 19 | 7 55 6 | 29°29'17 | 9 8 47 | 22°26 | 7°25 | 8°51 | 4°38 | 17°40 | 23° 8 | 11°19 | 25°16 | 28°30 | 29°47 | 11°35 | 29° 5 | T 19 |
| F 20 | 7 59 3 | 0≈30'18 | 24° 0 | 24° 4 | 8°39 | 9°19 | 4°51 | 17°43 | 23° 8 | 11°20 | 25°15 | 28°27 | 29°43 | 11°42 | 29° 4 | F 20 |
| S 21 | 8 2 59 | 1°31'18 | 8耳31 | 25°42 | 9°54 | 9°47 | 5° 4 | 17°47 | 23° 7 | 11°22 | 25°13 | 28°23 | 29°40 | 11°48 | 29° 3 | S 21 |
| S 22 | 8 6 56 | 2°32'16 | 23°15 | 27°21 | 11° 9 | 10°15 | 5°18 | 17°50 | 23° 7 | 11°24 | 25°12 | 28°16 | 29°37 | 11°55 | 29° 2 | S 22 |
| M23 | 8 10 53 | 3°33'14 | 895 6 | 29° 1 | 12°24 | 10°43 | 5°31 | 17°54 | 23° 7 | 11°26 | 25°11 | 28° 7 | 29°34 | 12° 2 | 29° 1 | M23 |
| T 24 | 8 14 49 | 4°34'11 | 22°57 | 0≈41 | 13°39 | 11°12 | 5°45 | 17°57 | 23° 6 | 11°28 | 25° 9 | 27°58 | 29°31 | 12° 9 | 29° 0 | T 24 |
| W25 | 8 18 46 | 5°35'06 | 7Ω 38 | 2°22 | 14°54 | 11°41 | 5°58 | 18° 0 | 23° 6 | 11°30 | 25° 8 | 27°50 | 29°27 | 12°15 | 28°59 | W25 |
| T 26 | 8 22 42 | 6°36'00 | 22° 1 | 4° 4 | 16° 9 | 12° 9 | 6°12 | 18° 3 | 23° 6 | 11°32 | 25° 7 | 27°43 | 29°24 | 12°22 | 28°58 | T 26 |
| F 27 | 8 26 39 | 7°36'54 | 6Mp 1 | 5°46 | 17°24 | 12°39 | 6°25 | 18° 6 | 23° 5 | 11°34 | 25° 6 | 27°39 | 29°21 | 12°29 | 28°58 | F 27 |
| S 28 | 8 30 35 | 8°37'46 | 19°35 | 7°30 | 18°39 | 13° 8 | 6°39 | 18° 9 | 23° 5 | 11°36 | 25° 4 | 27°37 | 29°18 | 12°35 | 28°57 | S 28 |
| S 29 | 8 34 32 | 9°38'38 | 2 ≏ 43 | 9°13 | 19°54 | 13°37 | 6°53 | 18°12 | 23° 5 | 11°38 | 25° 3 | 27°D36 | 29°15 | 12°42 | 28°57 | S 29 |
| M30 | 8 38 28 | 10°39'28 | 15°27 | 10°58 | 21° 8 | 14° 7 | 7° 6 | 18°15 | 23°D 5 | 11°40 | 25° 2 | 27°38 | 29°12 | 12°49 | 28°56 | M30 |
| T 31 | 8 42 25 | 11 ≈ 40'18 | 27 ≏ 51 | 12≈43 | 22 る 23 | 14 8 37 | 7 ∺ 20 | 18 M .17 | 238 5 | 11) (42 | 259 0 | 27) 39 | 29 米 8 | 12 ₹ 56 | 28 8 56 | T 31 |

Delta T = 18.42 sec

Greg. Calendar

FEBRUARY 1690 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |) f | ¥ | Р | ₽. | Ω | Ç | ď | Day |
|------|----------|------------------|----------------|-----------------|----------------|----------------|----------------|-----------------|----------------|------------------|--------|----------------|----------------|----------------|----------------|------|
| W 1 | 8 46 22 | 12≈41'07 | 9 M .59 | 14≈29 | 23 る 38 | 15 8 7 | 7) 34 | 18 M 20 | 23 8 5 | 11) (44 | 24°R59 | 27°R40 | 29 米 5 | 13 ×7 2 | 28°R55 | W 1 |
| T 2 | 8 50 18 | 13°41'55 | 21°56 | 16°16 | 24°53 | 15°37 | 7°48 | 18°22 | 23° 5 | 11°46 | 249558 | 27 米 39 | 29° 2 | 13° 9 | 28 8 55 | T 2 |
| F 3 | 8 54 15 | 14°42'42 | 3 ∡ 748 | 18° 3 | 26° 8 | 16° 7 | 8° 2 | 18°25 | 23° 6 | 11°48 | 24°57 | 27°37 | 28°59 | 13°16 | 28°55 | F 3 |
| S 4 | 8 58 11 | 15°43'27 | 15°39 | 19°51 | 27°23 | 16°38 | 8°16 | 18°27 | 23° 6 | 11°50 | 24°55 | 27°33 | 28°56 | 13°23 | 28°D55 | S 4 |
| S 5 | 9 2 8 | 16°44'12 | 27°33 | 21°40 | 28°38 | 17° 8 | 8°30 | 18°29 | 23° 6 | 11°52 | 24°54 | 27°27 | 28°53 | 13°29 | 28°55 | S 5 |
| M 6 | 9 6 4 | 17°44'56 | 9 궁 35 | 23°29 | 29°53 | 17°39 | 8°44 | 18°31 | 23° 6 | 11°54 | 24°53 | 27°20 | 28°49 | 13°36 | 28°55 | M 6 |
| T 7 | 9 10 1 | 18°45'38 | 21°46 | 25°18 | 1≈ 8 | 18°10 | 8°58 | 18°33 | 23° 7 | 11°56 | 24°52 | 27°13 | 28°46 | 13°43 | 28°55 | T 7 |
| W 8 | 9 13 57 | 19°46'20 | 4≈ 9 | 27° 8 | 2°23 | 18°41 | 9°12 | 18°35 | 23° 7 | 11°58 | 24°50 | 27° 6 | 28°43 | 13°49 | 28°55 | W 8 |
| T 9 | 9 17 54 | 20°46'59 | 16°45 | 28°58 | 3°38 | 19°12 | 9°26 | 18°37 | 23° 8 | 12° 1 | 24°49 | 27° 0 | 28°40 | 13°56 | 28°56 | T 9 |
| F 10 | 9 21 51 | 21°47'38 | 29°34 | 0) 48 | 4°53 | 19°44 | 9°40 | 18°38 | 23° 8 | 12° 3 | 24°48 | 26°55 | 28°37 | 14° 3 | 28°56 | F 10 |
| S 11 | 9 25 47 | 22°48'14 | 12) 35 | 2°38 | 6° 7 | 20°15 | 9°54 | 18°40 | 23° 9 | 12° 5 | 24°47 | 26°52 | 28°33 | 14°10 | 28°57 | S 11 |
| S 12 | 9 29 44 | 23°48'49 | 25°48 | 4°28 | 7°22 | 20°47 | 10° 9 | 18°41 | 23° 9 | 12° 7 | 24°46 | 26°D51 | 28°30 | 14°16 | 28°57 | S 12 |
| M13 | 9 33 40 | 24°49'23 | 9 Ƴ 12 | 6°17 | 8°37 | 21°18 | 10°23 | 18°43 | 23°10 | 12° 9 | 24°45 | 26°52 | 28°27 | 14°23 | 28°58 | M13 |
| T 14 | 9 37 37 | 25°49'54 | 22°48 | 8° 5 | 9°52 | 21°50 | 10°37 | 18°44 | 23°11 | 12°11 | 24°44 | 26°53 | 28°24 | 14°30 | 28°58 | T 14 |
| W15 | 9 41 33 | 26°50'24 | 6 8 35 | 9°52 | 11° 7 | 22°22 | 10°52 | 18°45 | 23°12 | 12°14 | 24°42 | 26°55 | 28°21 | 14°36 | 28°59 | W15 |
| T 16 | 9 45 30 | 27°50'52 | 20°33 | 11°38 | 12°22 | 22°54 | 11° 6 | 18°46 | 23°13 | 12°16 | 24°41 | 26°56 | 28°18 | 14°43 | 29° 0 | T 16 |
| F 17 | 9 49 26 | 28°51'18 | 4 Ⅱ 40 | 13°22 | 13°37 | 23°26 | 11°20 | 18°47 | 23°14 | 12°18 | 24°40 | 26°R56 | 28°14 | 14°50 | 29° 1 | F 17 |
| S 18 | 9 53 23 | 29°51'42 | 18°55 | 15° 3 | 14°51 | 23°59 | 11°35 | 18°48 | 23°14 | 12°20 | 24°39 | 26°55 | 28°11 | 14°57 | 29° 2 | S 18 |
| S 19 | 9 57 20 | 0 ¥ 52'05 | 39917 | 16°41 | 16° 6 | 24°31 | 11°49 | 18°49 | 23°15 | 12°23 | 24°38 | 26°52 | 28° 8 | 15° 3 | 29° 3 | S 19 |
| M20 | 10 1 16 | 1°52'25 | 17°40 | 18°16 | 17°21 | 25° 4 | 12° 3 | 18°49 | 23°17 | 12°25 | 24°37 | 26°49 | 28° 5 | 15°10 | 29° 4 | M20 |
| T 21 | 10 5 13 | 2°52'43 | 2 N 1 | 19°47 | 18°36 | 25°36 | 12°18 | 18°50 | 23°18 | 12°27 | 24°36 | 26°45 | 28° 2 | 15°17 | 29° 5 | T 21 |
| W22 | 10 9 9 | 3°52'59 | 16°14 | 21°13 | 19°51 | 26° 9 | 12°32 | 18°50 | 23°19 | 12°29 | 24°35 | 26°42 | 27°59 | 15°23 | 29° 6 | W22 |
| T 23 | 10 13 6 | 4°53'14 | 0 m)14 | 22°34 | 21° 6 | 26°42 | 12°47 | 18°51 | 23°20 | 12°32 | 24°34 | 26°39 | 27°55 | 15°30 | 29° 8 | T 23 |
| F 24 | 10 17 2 | 5°53'26 | 13°58 | 23°50 | 22°20 | 27°15 | 13° 1 | 18°51 | 23°21 | 12°34 | 24°33 | 26°38 | 27°52 | 15°37 | 29° 9 | F 24 |
| S 25 | 10 20 59 | 6°53'37 | 27°22 | 24°58 | 23°35 | 27°48 | 13°16 | 18°51 | 23°23 | 12°36 | 24°32 | 26°D37 | 27°49 | 15°44 | 29°11 | S 25 |
| S 26 | 10 24 55 | 7°53'46 | 10 ≏ 26 | 26° 0 | 24°50 | 28°21 | 13°30 | 18°R51 | 23°24 | 12°38 | 24°31 | 26°38 | 27°46 | 15°50 | 29°12 | S 26 |
| M27 | 10 28 52 | 8°53'53 | 23° 9 | 26°54 | 26° 5 | 28°54 | 13°45 | 18°51 | 23°25 | 12°41 | 24°30 | 26°39 | 27°43 | 15°57 | 29°14 | M27 |
| T 28 | 10 32 49 | 9 米 53'59 | 5 M 35 | 27) (40 | 27≈19 | 29 8 27 | 13 米 59 | 18 M .51 | 23 8 27 | 12) 43 | 249529 | 26 米 41 | 27 米 39 | 16 才 4 | 29 8 15 | T 28 |

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| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)∤(| \f | В | ß | ß | Ç | ę, | Day |
|------|----------|---------------------|-----------------|----------------|---------------|-------|------------------|----------------|----------------|------------------|--------|------------------|-----------------|----------------|--------------|------|
| W 1 | 10 36 45 | 10) (54'03 | 17 M 46 | 28) 18 | 28≈34 | 0 Д0 | 14) (14 | 18°R50 | 23 8 28 | 12) (45 | 24°R29 | 26) (42 | 27) (36 | 16 × 11 | 29817 | W 1 |
| T 2 | 10 40 42 | 11°54'06 | 29°46 | 28°47 | 29°49 | 0°34 | 14°28 | 18 M 50 | 23°30 | 12°47 | 249528 | 26°43 | 27°33 | 16°17 | 29°19 | T 2 |
| F 3 | 10 44 38 | 12°54'07 | 11 ×7 41 | 29° 7 | 1 ∺ 4 | 1° 7 | 14°43 | 18°50 | 23°32 | 12°50 | 24°27 | 26°R43 | 27°30 | 16°24 | 29°21 | F 3 |
| S 4 | 10 48 35 | 13°54'06 | 23°33 | 29°18 | 2°18 | 1°40 | 14°57 | 18°49 | 23°33 | 12°52 | 24°26 | 26°43 | 27°27 | 16°31 | 29°23 | S 4 |
| S 5 | 10 52 31 | 14°54'04 | 5 云 29 | 29°R20 | 3°33 | 2°14 | 15°12 | 18°48 | 23°35 | 12°54 | 24°25 | 26°42 | 27°24 | 16°37 | 29°25 | S 5 |
| M 6 | 10 56 28 | 15°54'00 | 17°32 | 29°14 | 4°48 | 2°48 | 15°26 | 18°48 | 23°37 | 12°57 | 24°25 | 26°41 | 27°20 | 16°44 | 29°27 | M 6 |
| T 7 | 11 0 24 | 16°53'54 | 29°47 | 28°58 | 6° 3 | 3°21 | 15°41 | 18°47 | 23°38 | 12°59 | 24°24 | 26°40 | 27°17 | 16°51 | 29°29 | T 7 |
| W 8 | 11 421 | 17°53'46 | 12≈17 | 28°35 | 7°17 | 3°55 | 15°55 | 18°46 | 23°40 | 13° 1 | 24°23 | 26°38 | 27°14 | 16°58 | 29°31 | W 8 |
| T 9 | 11 8 18 | 18°53'37 | 25° 4 | 28° 4 | 8°32 | 4°29 | 16°10 | 18°45 | 23°42 | 13° 3 | 24°22 | 26°37 | 27°11 | 17° 4 | 29°33 | T 9 |
| F 10 | 11 12 14 | 19°53'25 | 8) 8 | 27°26 | 9°47 | 5° 3 | 16°25 | 18°43 | 23°44 | 13° 6 | 24°22 | 26°37 | 27° 8 | 17°11 | 29°36 | F 10 |
| S 11 | 11 16 11 | 20°53'12 | 21°30 | 26°43 | 11° 1 | 5°37 | 16°39 | 18°42 | 23°46 | 13° 8 | 24°21 | 26°D36 | 27° 4 | 17°18 | 29°38 | S 11 |
| S 12 | 11 20 7 | 21°52'57 | 5 Υ 8 | 25°55 | 12°16 | 6°11 | 16°54 | 18°41 | 23°48 | 13°10 | 24°20 | 26°36 | 27° 1 | 17°24 | 29°41 | S 12 |
| M13 | 11 24 4 | 22°52'39 | 19° 0 | 25° 4 | 13°31 | 6°45 | 17° 8 | 18°39 | 23°50 | 13°12 | 24°20 | 26°37 | 26°58 | 17°31 | 29°43 | M13 |
| T 14 | 11 28 0 | 23°52'20 | 3 8 3 | 24°10 | 14°45 | 7°20 | 17°23 | 18°38 | 23°52 | 13°15 | 24°19 | 26°37 | 26°55 | 17°38 | 29°46 | T 14 |
| W15 | 11 31 57 | 24°51'58 | 17°14 | 23°15 | 16° 0 | 7°54 | 17°37 | 18°36 | 23°54 | 13°17 | 24°19 | 26°37 | 26°52 | 17°45 | 29°48 | W15 |
| T 16 | 11 35 53 | 25°51'34 | 1∏28 | 22°19 | 17°14 | 8°28 | 17°51 | 18°34 | 23°56 | 13°19 | 24°18 | 26°37 | 26°49 | 17°51 | 29°51 | T 16 |
| F 17 | 11 39 50 | 26°51'08 | 15°43 | 21°25 | 18°29 | 9° 3 | 18° 6 | 18°32 | 23°59 | 13°21 | 24°18 | 26°R37 | 26°45 | 17°58 | 29°54 | F 17 |
| S 18 | 11 43 46 | 27°50'40 | 29°56 | 20°34 | 19°44 | 9°37 | 18°20 | 18°30 | 24° 1 | 13°24 | 24°17 | 26°D37 | 26°42 | 18° 5 | 29°57 | S 18 |
| S 19 | 11 47 43 | 28°50'09 | 1495 5 | 19°45 | 20°58 | 10°11 | 18°35 | 18°28 | 24° 3 | 13°26 | 24°17 | 26°37 | 26°39 | 18°11 | 29°59 | S 19 |
| M20 | 11 51 40 | 29°49'36 | 28° 8 | 19° 0 | 22°13 | 10°46 | 18°49 | 18°26 | 24° 6 | 13°28 | 24°16 | 26°37 | 26°36 | 18°18 | 0 Ⅱ 2 | M20 |
| T 21 | 11 55 36 | 0 Ƴ 49'00 | 12 N 1 | 18°19 | 23°27 | 11°21 | 19° 4 | 18°24 | 24° 8 | 13°30 | 24°16 | 26°38 | 26°33 | 18°25 | 0° 5 | T 21 |
| W22 | 11 59 33 | 1°48'22 | 25°45 | 17°44 | 24°42 | 11°55 | 19°18 | 18°22 | 24°10 | 13°32 | 24°15 | 26°38 | 26°30 | 18°32 | 0° 8 | W22 |
| T 23 | 12 3 29 | 2°47'42 | 9 m)17 | 17°14 | 25°56 | 12°30 | 19°32 | 18°19 | 24°13 | 13°35 | 24°15 | 26°39 | 26°26 | 18°38 | 0°12 | T 23 |
| F 24 | 12 7 26 | 3°46'59 | 22°36 | 16°50 | 27°11 | 13° 5 | 19°47 | 18°17 | 24°15 | 13°37 | 24°15 | 26°R39 | 26°23 | 18°45 | 0°15 | F 24 |
| S 25 | 12 11 22 | 4°46'15 | 5 ≏ 40 | 16°31 | 28°25 | 13°39 | 20° 1 | 18°14 | 24°18 | 13°39 | 24°14 | 26°39 | 26°20 | 18°52 | 0°18 | S 25 |
| S 26 | 12 15 19 | 5°45'28 | 18°30 | 16°18 | 29°40 | 14°14 | 20°15 | 18°11 | 24°20 | 13°41 | 24°14 | 26°38 | 26°17 | 18°59 | 0°21 | S 26 |
| M27 | 12 19 15 | 6°44'40 | 1 M 5 | 16°11 | 0 Υ 54 | 14°49 | 20°29 | 18° 9 | 24°23 | 13°43 | 24°14 | 26°37 | 26°14 | 19° 5 | 0°25 | M27 |
| T 28 | 12 23 12 | 7°43'49 | 13°27 | 16°D10 | 2° 9 | 15°24 | 20°44 | 18° 6 | 24°26 | 13°45 | 24°14 | 26°36 | 26°10 | 19°12 | 0°28 | T 28 |
| W29 | 12 27 9 | 8°42'57 | 25°37 | 16°14 | 3°23 | 15°59 | 20°58 | 18° 3 | 24°28 | 13°47 | 24°13 | 26°34 | 26° 7 | 19°19 | 0°31 | W29 |
| T 30 | 12 31 5 | 9°42'02 | 7 .₹ 37 | 16°23 | 4°37 | 16°34 | 21°12 | 18° 0 | 24°31 | 13°50 | 24°13 | 26°32 | 26° 4 | 19°25 | 0°35 | T 30 |
| F 31 | 12 35 2 | 10 Y 41'06 | 19 ∡ 32 | 16 ∺ 38 | 5 Υ 52 | 17耳 9 | 21 米 26 | 17 M 57 | 24 8 34 | 13 米 52 | 249913 | 26 米 31 | 26 米 1 | 19 ∡ 32 | 0Д38 | F 31 |

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|------|----------|-------------------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|------------------|--------|----------------|----------------|-----------------|---------------|------|
| S 1 | 12 38 58 | 11 Y 40'09 | 1 පි 25 | 16 ∺ 58 | 7 Υ 6 | 17 Ⅱ 44 | 21) (40 | 17°R54 | 24 8 36 | 13) (54 | 24°R13 | 26°R30 | 25) 58 | 19 × 739 | 0 Ц 42 | S 1 |
| S 2 | 12 42 55 | 12°39'09 | 13°20 | 17°22 | 8°21 | 18°19 | 21°54 | 17 M 51 | 24°39 | 13°56 | 249513 | 26°D30 | 25°55 | 19°46 | 0°45 | S 2 |
| M 3 | 12 46 51 | 13°38'08 | 25°23 | 17°51 | 9°35 | 18°54 | 22° 8 | 17°47 | 24°42 | 13°58 | 24°13 | 26 米 30 | 25°51 | 19°52 | 0°49 | M 3 |
| T 4 | 12 50 48 | 14°37'05 | 7≈37 | 18°24 | 10°49 | 19°29 | 22°22 | 17°44 | 24°45 | 14° 0 | 24°13 | 26°31 | 25°48 | 19°59 | 0°53 | T 4 |
| W 5 | 12 54 44 | 15°36'00 | 20° 8 | 19° 1 | 12° 4 | 20° 4 | 22°36 | 17°41 | 24°48 | 14° 2 | 24°12 | 26°32 | 25°45 | 20° 6 | 0°57 | W 5 |
| T 6 | 12 58 41 | 16°34'53 | 2 ∺ 58 | 19°43 | 13°18 | 20°40 | 22°50 | 17°37 | 24°51 | 14° 4 | 24°D12 | 26°34 | 25°42 | 20°13 | 1° 0 | T 6 |
| F 7 | 13 2 38 | 17°33'44 | 16°11 | 20°27 | 14°32 | 21°15 | 23° 4 | 17°34 | 24°54 | 14° 6 | 24°12 | 26°35 | 25°39 | 20°19 | 1° 4 | F 7 |
| S 8 | 13 6 34 | 18°32'33 | 29°47 | 21°15 | 15°47 | 21°50 | 23°18 | 17°30 | 24°56 | 14° 8 | 24°12 | 26°R35 | 25°36 | 20°26 | 1° 8 | S 8 |
| S 9 | 13 10 31 | 19°31'21 | 13 Y 45 | 22° 7 | 17° 1 | 22°26 | 23°32 | 17°26 | 24°59 | 14°10 | 24°13 | 26°34 | 25°32 | 20°33 | 1°12 | S 9 |
| M10 | 13 14 27 | 20°30'07 | 28° 2 | 23° 2 | 18°15 | 23° 1 | 23°45 | 17°23 | 25° 2 | 14°12 | 24°13 | 26°32 | 25°29 | 20°39 | 1°16 | M10 |
| T 11 | 13 18 24 | 21°28'50 | 12834 | 23°59 | 19°29 | 23°36 | 23°59 | 17°19 | 25° 5 | 14°14 | 24°13 | 26°29 | 25°26 | 20°46 | 1°20 | T 11 |
| W12 | 13 22 20 | 22°27'32 | 27°13 | 25° 0 | 20°44 | 24°12 | 24°13 | 17°15 | 25° 9 | 14°16 | 24°13 | 26°26 | 25°23 | 20°53 | 1°24 | W12 |
| T 13 | 13 26 17 | 23°26'11 | 11 II 52 | 26° 3 | 21°58 | 24°47 | 24°26 | 17°11 | 25°12 | 14°17 | 24°13 | 26°22 | 25°20 | 21° 0 | 1°28 | T 13 |
| F 14 | 13 30 13 | 24°24'49 | 26°27 | 27° 9 | 23°12 | 25°23 | 24°40 | 17° 7 | 25°15 | 14°19 | 24°13 | 26°19 | 25°16 | 21° 6 | 1°32 | F 14 |
| S 15 | 13 34 10 | 25°23'24 | 10950 | 28°17 | 24°26 | 25°58 | 24°54 | 17° 3 | 25°18 | 14°21 | 24°13 | 26°17 | 25°13 | 21°13 | 1°36 | S 15 |
| S 16 | 13 38 7 | 26°21'57 | 24°59 | 29°28 | 25°40 | 26°34 | 25° 7 | 16°59 | 25°21 | 14°23 | 24°14 | 26°D16 | 25°10 | 21°20 | 1°41 | S 16 |
| M17 | 13 42 3 | 27°20'27 | 8 Ω 53 | 0 Υ 41 | 26°55 | 27°10 | 25°20 | 16°55 | 25°24 | 14°25 | 24°14 | 26°17 | 25° 7 | 21°26 | 1°45 | M17 |
| T 18 | 13 46 0 | 28°18'56 | 22°31 | 1°57 | 28° 9 | 27°45 | 25°34 | 16°51 | 25°27 | 14°27 | 24°14 | 26°18 | 25° 4 | 21°33 | 1°49 | T 18 |
| W19 | 13 49 56 | 29°17'22 | 5 m 53 | 3°15 | 29°23 | 28°21 | 25°47 | 16°47 | 25°31 | 14°28 | 24°15 | 26°20 | 25° 1 | 21°40 | 1°53 | W19 |
| T 20 | 13 53 53 | 0815'46 | 19° 1 | 4°34 | 0 8 37 | 28°57 | 26° 0 | 16°43 | 25°34 | 14°30 | 24°15 | 26°21 | 24°57 | 21°47 | 1°58 | T 20 |
| F 21 | 13 57 49 | 1°14'07 | 1 <u>₽</u> 56 | 5°56 | 1°51 | 29°32 | 26°13 | 16°38 | 25°37 | 14°32 | 24°15 | 26°R21 | 24°54 | 21°53 | 2° 2 | F 21 |
| S 22 | 14 1 46 | 2°12'27 | 14°39 | 7°20 | 3° 5 | 05 8 | 26°27 | 16°34 | 25°40 | 14°33 | 24°16 | 26°19 | 24°51 | 22° 0 | 2° 6 | S 22 |
| S 23 | 14 5 42 | 3°10'45 | 27°11 | 8°46 | 4°19 | 0°44 | 26°40 | 16°30 | 25°44 | 14°35 | 24°16 | 26°16 | 24°48 | 22° 7 | 2°11 | S 23 |
| M24 | 14 9 39 | 4° 9'01 | 9 M .33 | 10°14 | 5°33 | 1°20 | 26°53 | 16°25 | 25°47 | 14°37 | 24°16 | 26°11 | 24°45 | 22°14 | 2°15 | M24 |
| T 25 | 14 13 36 | 5° 7'16 | 21°46 | 11°44 | 6°47 | 1°55 | 27° 6 | 16°21 | 25°50 | 14°38 | 24°17 | 26° 5 | 24°41 | 22°20 | 2°20 | T 25 |
| W26 | 14 17 32 | 6° 5'29 | 3 ₹ 50 | 13°15 | 8° 1 | 2°31 | 27°18 | 16°17 | 25°54 | 14°40 | 24°17 | 25°57 | 24°38 | 22°27 | 2°24 | W26 |
| T 27 | 14 21 29 | 7° 3'40 | 15°48 | 14°49 | 9°15 | 3° 7 | 27°31 | 16°12 | 25°57 | 14°41 | 24°18 | 25°50 | 24°35 | 22°34 | 2°29 | T 27 |
| F 28 | 14 25 25 | 8° 1'49 | 27°42 | 16°25 | 10°29 | 3°43 | 27°44 | 16° 8 | 26° 0 | 14°43 | 24°18 | 25°43 | 24°32 | 22°40 | 2°33 | F 28 |
| S 29 | 14 29 22 | 8°59'57 | 9 궁 34 | 18° 2 | 11°43 | 4°19 | 27°57 | 16° 3 | 26° 4 | 14°45 | 24°19 | 25°38 | 24°29 | 22°47 | 2°38 | S 29 |
| S 30 | 14 33 18 | 9 8 58'04 | 21 る 28 | 19 Y 42 | 12 8 57 | 4955 | 28 米 9 | 15 M 59 | 26 8 7 | 14) (46 | 24920 | 25 米 34 | 24 米 26 | 22 × 754 | 2 ∏ 42 | S 30 |

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|-------------|----------------------|----------------------|------------------------|-----------------|-----------------------|----------------|-----------------------|-----------------|----------------|------------------|----------------|-----------------|------------------|----------------|---------------|-------------|
| M 1 | 14 37 15 | 10856'09 | 3≈29 | 21 Y 23 | 14811 | 5931 | 28 米 22 | 15°R55 | 26811 | 14) (47 | 249520 | 25°R32 | 24) 22 | 23🖈 1 | 2 Ⅱ 47 | M 1 |
| T 2 | 14 41 11 | 11°54'13 | 15°41 | 23° 6 | 15°25 | 6° 7 | 28°34 | 15 M 50 | 26°14 | 14°49 | 24°21 | 25°D32 | 24°19 | 23° 7 | 2°52 | T 2 |
| W 3 | 14 45 8 | 12°52'15 | 28° 9 | 24°51 | 16°39 | 6°42 | 28°47 | 15°46 | 26°17 | 14°50 | 24°21 | 25) 32 | 24°16 | 23°14 | 2°56 | W 3 |
| T 4 | 14 49 5 | 13°50'16 | 10 米 57 | 26°38 | 17°53 | 7°18 | 28°59 | 15°41 | 26°21 | 14°52 | 24°22 | 25°34 | 24°13 | 23°21 | 3° 1 | T 4 |
| F 5 | 14 53 1 | 14°48'15 | 24°9 7 ⋎ 49 | 28°27 | 19° 7 | 7°55 | 29°11 | 15°37 | 26°24 | 14°53 | 24°23 | 25°R34 | 24°10 | 23°27 | 3° 6 | F 5 S 6 |
| S 6 | 14 56 58 | 15°46'13 | | 0818 | 20°21 | 8°31 | 29°23 | 15°32 | 26°28 | 14°54 | 24°24 | 25°34 | 24° 7 | 23°34 | 3°11 | |
| S 7 | 15 0 54 | 16°44'10 | 21°56 | 2°11 | 21°35 | 9° 7 | 29°35 | 15°28 | 26°31 | 14°56 | 24°24 | 25°31 | 24° 3 | 23°41 | 3°15 | S 7 |
| M 8 | 15 4 51 | 17°42'05 | 6827 | 4° 5 | 22°49 | 9°43 | 29°47 | 15°23 | 26°35 | 14°57 | 24°25 | 25°26 | 24° 0 | 23°48 | 3°20 | M 8 |
| T 9 | 15 8 47 | 18°39'59 | 21°19 | 6° 2 | 24° 2 | 10°19 | 29°59 | 15°19 | 26°38 | 14°58 | 24°26 | 25°19 | 23°57 | 23°54 | 3°25 | T 9 |
| W10 T 11 | 15 12 44 15 16 40 | 19°37'52 20°35'43 | 6 Ⅱ 21 21°26 | 8° 0 10° 1 | 25°16 26°30 | 10°55 11°31 | 0 Υ 11 0°23 | 15°14 15°10 | 26°42 26°45 | 15° 0 15° 1 | 24°27 24°28 | 25°11 25° 3 | 23°54 23°51 | 24° 1 24° 8 | 3°30 3°34 | W10 T 11 |
| F 12 | 15 10 40 | 20°33'43 21°33'32 | 6922 | 10° 1 | 20°30 27°44 | 12° 7 | 0°35 | 15° 5 | 26°49 | 15° 2 | 24°28 | 24°56 | 23°47 | 24°15 | 3°39 | F 12 |
| S 13 | 15 24 34 | 22°31'20 | 21° 2 | 14° 6 | 28°58 | 12°44 | 0°46 | 15° 1 | 26°52 | 15° 3 | 24°29 | 24°50 | 23°44 | 24°21 | 3°44 | S 13 |
| | | | | _ | | | | _ | | | | | | | | l I |
| S 14 M15 | 15 28 30 15 32 27 | 23°29'06 24°26'50 | 5 Ω 22 19°18 | 16°11 18°18 | 0 Ⅱ 12 1°25 | 13°20 13°56 | 0°58 1° 9 | 14°56 14°52 | 26°56 26°59 | 15° 4 15° 5 | 24°30 24°31 | 24°47 24°D45 | 23°41 23°38 | 24°28 24°35 | 3°49 3°54 | S 14 M15 |
| T 16 | 15 36 23 | 24 26 30 25°24'33 | 2 m 51 | 20°26 | 2°39 | 13°30 14°32 | 1°20 | 14°47 | 20°39 27°3 | 15° 6 | 24°32 | 24°45 | 23°35 | 24°33 | 3°59 | T 16 |
| W17 | 15 40 20 | 26°22'13 | 16° 3 | 20°25 | 3°53 | 15° 8 | 1°32 | 14°43 | 27° 6 | 15° 7 | 24°33 | 24°46 | 23°32 | 24°48 | 4° 4 | W17 |
| T 18 | 15 44 16 | 27°19'53 | 28°57 | 24°45 | 5° 7 | 15°45 | 1°43 | 14°39 | 27°10 | 15° 8 | 24°34 | 24°R46 | 23°28 | 24°55 | 4° 8 | T 18 |
| F 19 | 15 48 13 | 28°17'30 | 11 ₽ 36 | 26°56 | 6°20 | 16°21 | 1°54 | 14°34 | 27°13 | 15° 9 | 24°35 | 24°45 | 23°25 | 25° 2 | 4°13 | F 19 |
| S 20 | 15 52 9 | 29°15'06 | 24° 3 | 29° 8 | 7°34 | 16°57 | 2° 5 | 14°30 | 27°17 | 15°10 | 24°36 | 24°41 | 23°22 | 25° 8 | 4°18 | S 20 |
| S 21 | 15 56 6 | 0∏12'41 | 6 M 20 | 1Ⅲ20 | 8°48 | 17°34 | 2°15 | 14°26 | 27°20 | 15°11 | 24°37 | 24°35 | 23°19 | 25°15 | 4°23 | S 21 |
| M22 | 16 0 3 | 1°10'15 | 18°29 | 3°31 | 10° 1 | 18°10 | 2°26 | 14°22 | 27°24 | 15°12 | 24°38 | 24°26 | 23°16 | 25°22 | 4°28 | M22 |
| T 23 | 16 3 59 | 2° 7'47 | 0 ∡ ³32 | 5°43 | 11°15 | 18°46 | 2°37 | 14°17 | 27°27 | 15°13 | 24°39 | 24°15 | 23°13 | 25°29 | 4°33 | T 23 |
| W24 | 16 7 56 | 3° 5'19 | 12°30 | 7°54 | 12°29 | 19°23 | 2°47 | 14°13 | 27°31 | 15°14 | 24°40 | 24° 3 | 23° 9 | 25°35 | 4°38 | W24 |
| T 25 | 16 11 52 | 4° 2'49 | 24°25 | 10° 4 | 13°42 | 19°59 | 2°58 | 14° 9 | 27°34 | 15°14 | 24°41 | 23°50 | 23° 6 | 25°42 | 4°43 | T 25 |
| F 26 | 16 15 49 | 5° 0'18 | 6 ਰ 17 | 12°13 | 14°56 | 20°36 | 3° 8 | 14° 5 | 27°38 | 15°15 | 24°43 | 23°38 | 23° 3 | 25°49 | 4°48 | F 26 |
| S 27 | 16 19 45 | 5°57'47 | 18° 9 | 14°21 | 16°10 | 21°12 | 3°18 | 14° 1 | 27°41 | 15°16 | 24°44 | 23°28 | 23° 0 | 25°55 | 4°53 | S 27 |
| S 28 | 16 23 42 | 6°55'14 | 0≈ 4 | 16°27 | 17°23 | 21°49 | 3°28 | 13°57 | 27°45 | 15°17 | 24°45 | 23°20 | 22°57 | 26° 2 | 4°58 | S 28 |
| M29 | 16 27 38 | 7°52'41 | 12° 5 | 18°32 | 18°37 | 22°25 | 3°38 | 13°53 | 27°48 | 15°17 | 24°46 | 23°15 | 22°53 | 26° 9 | 5° 3 | M29 |
| T 30 | 16 31 35 | 8°50'06 | 24°15 | 20°34 | 19°51 | 23° 2 | 3°48 | 13°49 | 27°52 | 15°18 | 24°47 | 23°13 | 22°50 | 26°16 | 5° 8 | T 30 |
| W31 | 16 35 32 | 9 Ⅱ 47'32 | 6) 40 | 22 II 35 | 21 I 4 | 23938 | 3 ℃ 58 | 13 M .45 | 27 8 55 | 15 ∺ 18 | 249549 | 23°D12 | 22) (47 | 26 × 22 | 5 Ⅱ 12 | W31 |

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|------|----------|-------------------|----------------|---------------|-----------------|---------------|---------------|-----------------|----------------|----------------|-------|----------------|------------------|-----------------|---------------|------|
| T 1 | 16 39 28 | 10 Ⅱ 44'56 | 19 米 24 | 24∏33 | 22 I I18 | 249515 | 4 Υ 7 | 13°R42 | 27 8 59 | 15 米 19 | 24950 | 23°R12 | 22) (44 | 26 × 129 | 5 Ⅱ 17 | T 1 |
| F 2 | 16 43 25 | 11°42'20 | 2 Υ 32 | 26°30 | 23°31 | 24°51 | 4°17 | 13 M .38 | 28° 2 | 15°19 | 24°51 | 23 米 12 | 22°41 | 26°36 | 5°22 | F 2 |
| S 3 | 16 47 21 | 12°39'43 | 16° 8 | 28°24 | 24°45 | 25°28 | 4°26 | 13°34 | 28° 5 | 15°20 | 24°52 | 23°10 | 22°38 | 26°43 | 5°27 | S 3 |
| S 4 | 16 51 18 | 13°37'06 | 0812 | 09915 | 25°59 | 26° 4 | 4°35 | 13°31 | 28° 9 | 15°20 | 24°54 | 23° 6 | 22°34 | 26°49 | 5°32 | S 4 |
| M 5 | 16 55 14 | 14°34'28 | 14°45 | 2° 4 | 27°12 | 26°41 | 4°45 | 13°27 | 28°12 | 15°21 | 24°55 | 23° 0 | 22°31 | 26°56 | 5°37 | M 5 |
| T 6 | 16 59 11 | 15°31'50 | 29°42 | 3°51 | 28°26 | 27°17 | 4°54 | 13°24 | 28°16 | 15°21 | 24°56 | 22°51 | 22°28 | 27° 3 | 5°42 | T 6 |
| W 7 | 17 3 7 | 16°29'11 | 14 Ⅱ 55 | 5°35 | 29°39 | 27°54 | 5° 2 | 13°20 | 28°19 | 15°22 | 24°58 | 22°41 | 22°25 | 27° 9 | 5°47 | W 7 |
| T 8 | 17 7 4 | 17°26'31 | 0 ୭ 13 | 7°16 | 0ණ53 | 28°31 | 5°11 | 13°17 | 28°22 | 15°22 | 24°59 | 22°30 | 22°22 | 27°16 | 5°52 | T 8 |
| F 9 | 17 11 1 | 18°23'51 | 15°25 | 8°55 | 2° 6 | 29° 8 | 5°20 | 13°14 | 28°26 | 15°22 | 25° 0 | 22°20 | 22°19 | 27°23 | 5°57 | F 9 |
| S 10 | 17 14 57 | 19°21'10 | 0 Ω 21 | 10°31 | 3°20 | 29°44 | 5°28 | 13°10 | 28°29 | 15°23 | 25° 2 | 22°12 | 22°15 | 27°30 | 6° 1 | S 10 |
| S 11 | 17 18 54 | 20°18'27 | 14°53 | 12° 5 | 4°33 | 0 Ω 21 | 5°37 | 13° 7 | 28°32 | 15°23 | 25° 3 | 22° 7 | 22°12 | 27°36 | 6° 6 | S 11 |
| M12 | 17 22 50 | 21°15'44 | 28°58 | 13°36 | 5°47 | 0°58 | 5°45 | 13° 4 | 28°36 | 15°23 | 25° 5 | 22° 4 | 22° 9 | 27°43 | 6°11 | M12 |
| T 13 | 17 26 47 | 22°13'01 | 12 m 36 | 15° 5 | 7° 0 | 1°34 | 5°53 | 13° 1 | 28°39 | 15°23 | 25° 6 | 22° 3 | 22° 6 | 27°50 | 6°16 | T 13 |
| W14 | 17 30 43 | 23°10'16 | 25°47 | 16°31 | 8°14 | 2°11 | 6° 1 | 12°58 | 28°42 | 15°23 | 25° 7 | 22° 3 | 22° 3 | 27°56 | 6°21 | W14 |
| T 15 | 17 34 40 | 24° 7'30 | 8 ≏ 37 | 17°54 | 9°27 | 2°48 | 6° 9 | 12°55 | 28°46 | 15°23 | 25° 9 | 22° 2 | 21°59 | 28° 3 | 6°25 | T 15 |
| F 16 | 17 38 37 | 25° 4'44 | 21° 9 | 19°14 | 10°41 | 3°25 | 6°16 | 12°53 | 28°49 | 15°23 | 25°10 | 22° 1 | 21°56 | 28°10 | 6°30 | F 16 |
| S 17 | 17 42 33 | 26° 1'57 | 3 M 27 | 20°32 | 11°54 | 4° 2 | 6°24 | 12°50 | 28°52 | 15°23 | 25°12 | 21°57 | 21°53 | 28°17 | 6°35 | S 17 |
| S 18 | 17 46 30 | 26°59'10 | 15°35 | 21°47 | 13° 7 | 4°38 | 6°31 | 12°47 | 28°55 | 15°R23 | 25°13 | 21°50 | 21°50 | 28°23 | 6°40 | S 18 |
| M19 | 17 50 26 | 27°56'22 | 27°35 | 22°59 | 14°21 | 5°15 | 6°38 | 12°45 | 28°58 | 15°23 | 25°15 | 21°40 | 21°47 | 28°30 | 6°44 | M19 |
| T 20 | 17 54 23 | 28°53'33 | 9 ∡ 31 | 24° 8 | 15°34 | 5°52 | 6°45 | 12°42 | 29° 2 | 15°23 | 25°16 | 21°28 | 21°44 | 28°37 | 6°49 | T 20 |
| W21 | 17 58 19 | 29°50'45 | 2 <u>1</u> °25 | 25°14 | 16°47 | 6°29 | 6°52 | 12°40 | 29° 5 | 15°23 | 25°18 | 21°15 | 21°40 | 28°44 | 6°54 | W21 |
| T 22 | 18 2 16 | 09647'56 | 3 궁 18 | 26°17 | 18° 1 | 7° 6 | 6°59 | 12°38 | 29° 8 | 15°23 | 25°19 | 21° 1 | 21°37 | 28°50 | 6°58 | T 22 |
| F 23 | 18 6 12 | 1°45'06 | 15°11 | 27°17 | 19°14 | 7°43 | 7° 6 | 12°36 | 29°11 | 15°23 | 25°21 | 20°48 | 21°34 | 28°57 | 7° 3 | F 23 |
| S 24 | 18 10 9 | 2°42'17 | 27° 6 | 28°14 | 20°28 | 8°20 | 7°12 | 12°34 | 29°14 | 15°23 | 25°22 | 20°37 | 21°31 | 29° 4 | 7° 8 | S 24 |
| S 25 | 18 14 6 | 3°39'27 | 9≈ 5 | 29° 7 | 21°41 | 8°57 | 7°18 | 12°32 | 29°17 | 15°23 | 25°24 | 20°29 | 21°28 | 29°10 | 7°12 | S 25 |
| M26 | 18 18 2 | 4°36'38 | 21°10 | 29°57 | 22°54 | 9°34 | 7°24 | 12°30 | 29°20 | 15°22 | 25°26 | 20°23 | 21°25 | 29°17 | 7°17 | M26 |
| T 27 | 18 21 59 | 5°33'48 | 3) €24 | 0 Ω 43 | 24° 7 | 10°11 | 7°30 | 12°28 | 29°23 | 15°22 | 25°27 | 20°20 | 21°21 | 29°24 | 7°21 | T 27 |
| W28 | 18 25 55 | 6°30'59 | 15°50 | 1°26 | 25°21 | 10°48 | 7°36 | 12°26 | 29°26 | 15°22 | 25°29 | 20°D19 | 21°18 | 29°31 | 7°26 | W28 |
| T 29 | 18 29 52 | 7°28'10 | 28°34 | 2° 5 | 26°34 | 11°25 | 7°42 | 12°24 | 29°29 | 15°21 | 25°30 | 20°19 | 21°15 | 29°37 | 7°30 | T 29 |
| F 30 | 18 33 48 | 8925'21 | 11 Y 39 | 2 Ω 40 | 279547 | 12 0 2 | 7 Ƴ 47 | 12 M 23 | 29 8 32 | 15 ∺ 21 | 25932 | 20°R19 | 21 米 12 | 29 х 44 | 7 Ⅱ 35 | F 30 |

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JULY 1690 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q | ď | 4 | ħ |)∤(| 并 | В | ß | v | ţ | o k | Day |
|------|----------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|------------------|--------|----------------|----------------|-----------------|----------------|------|
| S 1 | 18 37 45 | 9922'33 | 25 Y 8 | 3 \O 10 | 299 1 | 12 N 39 | 7 ℃ 53 | 12°R21 | 29 8 35 | 15°R21 | 25934 | 20°R18 | 21 米 9 | 29 × 751 | 7 II 39 | S 1 |
| S 2 | 18 41 41 | 10°19'44 | 9 8 5 | 3°37 | 0Ω14 | 13°16 | 7°58 | 12 M 20 | 29°38 | 15) 20 | 25°35 | 20) 15 | 21° 5 | 29°57 | 7°44 | S 2 |
| M 3 | 18 45 38 | 11°16'57 | 23°29 | 3°59 | 1°27 | 13°53 | 8° 3 | 12°19 | 29°41 | 15°20 | 25°37 | 20°10 | 21° 2 | 0중 4 | 7°48 | M 3 |
| T 4 | 18 49 35 | 12°14'10 | 8 Ⅱ 18 | 4°17 | 2°40 | 14°30 | 8° 7 | 12°18 | 29°43 | 15°19 | 25°38 | 20° 2 | 20°59 | 0°11 | 7°52 | T 4 |
| W 5 | 18 53 31 | 13°11'23 | 23°25 | 4°30 | 3°53 | 15° 8 | 8°12 | 12°16 | 29°46 | 15°19 | 25°40 | 19°53 | 20°56 | 0°18 | 7°57 | W 5 |
| T 6 | 18 57 28 | 14° 8'36 | 89940 | 4°39 | 5° 7 | 15°45 | 8°17 | 12°15 | 29°49 | 15°18 | 25°42 | 19°44 | 20°53 | 0°24 | 8° 1 | T 6 |
| F 7 | 19 1 24 | 15° 5'50 | 23°54 | 4°R43 | 6°20 | 16°22 | 8°21 | 12°15 | 29°52 | 15°17 | 25°43 | 19°35 | 20°50 | 0°31 | 8° 5 | F 7 |
| S 8 | 19 5 21 | 16° 3'04 | 8 N 55 | 4°42 | 7°33 | 16°59 | 8°25 | 12°14 | 29°54 | 15°17 | 25°45 | 19°28 | 20°46 | 0°38 | 8° 9 | S 8 |
| S 9 | 19 9 17 | 17° 0'18 | 23°35 | 4°36 | 8°46 | 17°36 | 8°29 | 12°13 | 29°57 | 15°16 | 25°47 | 19°23 | 20°43 | 0°45 | 8°14 | S 9 |
| M10 | 19 13 14 | 17°57'32 | 7 m /48 | 4°26 | 9°59 | 18°14 | 8°33 | 12°12 | 29°59 | 15°15 | 25°48 | 19°21 | 20°40 | 0°51 | 8°18 | M10 |
| T 11 | 19 17 11 | 18°54'46 | 21°33 | 4°11 | 11°12 | 18°51 | 8°36 | 12°12 | 0 Π 2 | 15°15 | 25°50 | 19°D20 | 20°37 | 0°58 | 8°22 | T 11 |
| W12 | 19 21 7 | 19°52'00 | 4 ≙ 50 | 3°51 | 12°26 | 19°28 | 8°39 | 12°11 | 0° 5 | 15°14 | 25°52 | 19°21 | 20°34 | 1° 5 | 8°26 | W12 |
| T 13 | 19 25 4 | 20°49'14 | 17°42 | 3°27 | 13°39 | 20° 6 | 8°43 | 12°11 | 0° 7 | 15°13 | 25°53 | 19°R21 | 20°31 | 1°11 | 8°30 | T 13 |
| F 14 | 19 29 0 | 21°46'29 | 0 M .14 | 2°59 | 14°52 | 20°43 | 8°46 | 12°11 | 0°10 | 15°12 | 25°55 | 19°21 | 20°27 | 1°18 | 8°34 | F 14 |
| S 15 | 19 32 57 | 22°43'43 | 12°30 | 2°27 | 16° 5 | 21°20 | 8°48 | 12°11 | 0°12 | 15°12 | 25°57 | 19°19 | 20°24 | 1°25 | 8°38 | S 15 |
| S 16 | 19 36 53 | 23°40'58 | 24°34 | 1°52 | 17°18 | 21°58 | 8°51 | 12°D11 | 0°15 | 15°11 | 25°58 | 19°15 | 20°21 | 1°32 | 8°42 | S 16 |
| M17 | 19 40 50 | 24°38'14 | 6 ₮ 32 | 1°14 | 18°31 | 22°35 | 8°53 | 12°11 | 0°17 | 15°10 | 26° 0 | 19° 8 | 20°18 | 1°38 | 8°46 | M17 |
| T 18 | 19 44 46 | 25°35'30 | 1 <u>8</u> °25 | 0°34 | 19°44 | 23°13 | 8°56 | 12°11 | 0°19 | 15° 9 | 26° 2 | 19° 0 | 20°15 | 1°45 | 8°49 | T 18 |
| W19 | 19 48 43 | 26°32'46 | 0 궁 17 | 29952 | 20°57 | 23°50 | 8°58 | 12°11 | 0°22 | 15° 8 | 26° 3 | 18°51 | 20°11 | 1°52 | 8°53 | W19 |
| T 20 | 19 52 40 | 27°30'03 | 12°10 | 29° 9 | 22°10 | 24°28 | 9° 0 | 12°12 | 0°24 | 15° 7 | 26° 5 | 18°41 | 20° 8 | 1°59 | 8°57 | T 20 |
| F 21 | 19 56 36 | 28°27'20 | 24° 7 | 28°27 | 23°23 | 25° 5 | 9° 1 | 12°12 | 0°26 | 15° 6 | 26° 7 | 18°32 | 20° 5 | 2° 5 | 9° 1 | F 21 |
| S 22 | 20 0 33 | 29°24'38 | 6≈ 8 | 27°44 | 24°36 | 25°43 | 9° 3 | 12°13 | 0°28 | 15° 5 | 26° 8 | 18°24 | 20° 2 | 2°12 | 9° 4 | S 22 |
| S 23 | 20 4 29 | $0\Omega 21'57$ | 18°15 | 27° 4 | 25°48 | 26°20 | 9° 4 | 12°13 | 0°30 | 15° 4 | 26°10 | 18°18 | 19°59 | 2°19 | 9°8 | S 23 |
| M24 | 20 8 26 | 1°19'16 | 0 ∺ 30 | 26°25 | 27° 1 | 26°58 | 9° 5 | 12°14 | 0°33 | 15° 3 | 26°12 | 18°14 | 19°56 | 2°25 | 9°11 | M24 |
| T 25 | 20 12 22 | 2°16'37 | 12°55 | 25°49 | 28°14 | 27°35 | 9° 6 | 12°15 | 0°35 | 15° 2 | 26°13 | 18°D13 | 19°52 | 2°32 | 9°15 | T 25 |
| W26 | 20 16 19 | 3°13'58 | 25°31 | 25°17 | 29°27 | 28°13 | 9° 7 | 12°16 | 0°37 | 15° 1 | 26°15 | 18°13 | 19°49 | 2°39 | 9°18 | W26 |
| T 27 | 20 20 15 | 4°11'21 | 8 Ƴ 22 | 24°49 | 0 m 40 | 28°50 | 9° 7 | 12°17 | 0°39 | 15° 0 | 26°17 | 18°14 | 19°46 | 2°46 | 9°22 | T 27 |
| F 28 | 20 24 12 | 5° 8'44 | 21°31 | 24°26 | 1°53 | 29°28 | 9° 7 | 12°18 | 0°41 | 14°59 | 26°18 | 18°15 | 19°43 | 2°52 | 9°25 | F 28 |
| S 29 | 20 28 9 | 6° 6'09 | 4 8 59 | 24° 8 | 3° 5 | 0 m) 6 | 9°R 7 | 12°19 | 0°42 | 14°57 | 26°20 | 18°R16 | 19°40 | 2°59 | 9°29 | S 29 |
| S 30 | 20 32 5 | 7° 3'35 | 18°49 | 23°55 | 4°18 | 0°44 | 9° 7 | 12°20 | 0°44 | 14°56 | 26°21 | 18°15 | 19°37 | 3° 6 | 9°32 | S 30 |
| M31 | 20 36 2 | 8 N 1'03 | 3 II 2 | 23°D49 | 5 Mp 31 | 1 Mp 21 | 9 ℃ 7 | 12 M 22 | 0∏46 | 14) (55 | 269523 | 18) 13 | 19 米 33 | 3 ට 12 | 9 Ⅱ 35 | M31 |

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Greg. Calendar

AUGUST 1690 GC 00:00 UT

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|------|----------|------------------|----------------|-----------------|----------------|---------------|---------------|----------------|----------------|----------------|--------|----------------|----------------|---------------|----------------|------|
| T 1 | 20 39 58 | 8 Ω 58'32 | 17 Ⅲ 35 | 239549 | 6Mp43 | 1 m 59 | 9°R 7 | 12 M 23 | 0 Ⅱ 48 | 14°R54 | 26925 | 18°R 9 | 19 米 30 | 3 ට 19 | 9Д38 | T 1 |
| W 2 | 20 43 55 | 9°56'02 | 29524 | 23°56 | 7°56 | 2°37 | 9 Υ 6 | 12°25 | 0°50 | 14 米 52 | 26°26 | 18 ∺ 4 | 19°27 | 3°26 | 9°41 | W 2 |
| T 3 | 20 47 51 | 10°53'33 | 17°23 | 24°10 | 9° 9 | 3°15 | 9° 5 | 12°27 | 0°51 | 14°51 | 26°28 | 17°59 | 19°24 | 3°33 | 9°44 | T 3 |
| F 4 | 20 51 48 | 11°51'06 | 2 Ω 23 | 24°30 | 10°21 | 3°52 | 9° 4 | 12°28 | 0°53 | 14°50 | 26°30 | 17°54 | 19°21 | 3°39 | 9°47 | F 4 |
| S 5 | 20 55 44 | 12°48'40 | 17°14 | 24°57 | 11°34 | 4°30 | 9° 3 | 12°30 | 0°55 | 14°49 | 26°31 | 17°50 | 19°17 | 3°46 | 9°50 | S 5 |
| S 6 | 20 59 41 | 13°46'14 | 1 m 50 | 25°31 | 12°47 | 5° 8 | 9° 1 | 12°32 | 0°56 | 14°47 | 26°33 | 17°47 | 19°14 | 3°53 | 9°53 | S 6 |
| M 7 | 21 3 38 | 14°43'50 | 16° 3 | 26°11 | 13°59 | 5°46 | 8°59 | 12°34 | 0°58 | 14°46 | 26°34 | 17°D46 | 19°11 | 3°59 | 9°56 | M 7 |
| T 8 | 21 7 34 | 15°41'27 | 29°50 | 26°59 | 15°12 | 6°24 | 8°58 | 12°37 | 0°59 | 14°44 | 26°36 | 17°47 | 19°8 | 4° 6 | 9°59 | T 8 |
| W 9 | 21 11 31 | 16°39'05 | 13 ≏ 12 | 27°53 | 16°24 | 7° 2 | 8°55 | 12°39 | 1° 1 | 14°43 | 26°38 | 17°48 | 19° 5 | 4°13 | 10° 2 | W 9 |
| T 10 | 21 15 27 | 17°36'43 | 26° 9 | 28°53 | 17°37 | 7°40 | 8°53 | 12°41 | 1° 2 | 14°42 | 26°39 | 17°50 | 19° 2 | 4°20 | 10° 4 | T 10 |
| F 11 | 21 19 24 | 18°34'23 | 8 M .44 | 29°59 | 18°49 | 8°18 | 8°51 | 12°44 | 1° 3 | 14°40 | 26°41 | 17°51 | 18°58 | 4°26 | 10° 7 | F 11 |
| S 12 | 21 23 20 | 19°32'04 | 21° 2 | 1 \O 12 | 20° 2 | 8°56 | 8°48 | 12°46 | 1° 4 | 14°39 | 26°42 | 17°R51 | 18°55 | 4°33 | 10° 9 | S 12 |
| S 13 | 21 27 17 | 20°29'46 | 3 √ 7 | 2°30 | 21°14 | 9°34 | 8°45 | 12°49 | 1° 6 | 14°37 | 26°44 | 17°51 | 18°52 | 4°40 | 10°12 | S 13 |
| M14 | 21 31 13 | 21°27'29 | 15° 4 | 3°54 | 22°26 | 10°12 | 8°42 | 12°52 | 1° 7 | 14°36 | 26°45 | 17°49 | 18°49 | 4°47 | 10°14 | M14 |
| T 15 | 21 35 10 | 22°25'14 | 26°57 | 5°23 | 23°39 | 10°50 | 8°39 | 12°54 | 1°8 | 14°34 | 26°47 | 17°46 | 18°46 | 4°53 | 10°17 | T 15 |
| W16 | 21 39 7 | 23°22'59 | 8 궁 50 | 6°56 | 24°51 | 11°29 | 8°35 | 12°57 | 1° 9 | 14°33 | 26°49 | 17°42 | 18°43 | 5° 0 | 10°19 | W16 |
| T 17 | 21 43 3 | 24°20'46 | 20°46 | 8°34 | 26° 3 | 12° 7 | 8°32 | 13° 0 | 1°10 | 14°31 | 26°50 | 17°38 | 18°39 | 5° 7 | 10°21 | T 17 |
| F 18 | 21 47 0 | 25°18'34 | 2≈47 | 10°16 | 27°16 | 12°45 | 8°28 | 13° 3 | 1°11 | 14°30 | 26°52 | 17°34 | 18°36 | 5°13 | 10°23 | F 18 |
| S 19 | 21 50 56 | 26°16'23 | 14°57 | 12° 1 | 28°28 | 13°23 | 8°24 | 13° 6 | 1°12 | 14°28 | 26°53 | 17°31 | 18°33 | 5°20 | 10°25 | S 19 |
| S 20 | 21 54 53 | 27°14'14 | 27°16 | 13°49 | 29°40 | 14° 2 | 8°20 | 13°10 | 1°13 | 14°27 | 26°55 | 17°29 | 18°30 | 5°27 | 10°27 | S 20 |
| M21 | 21 58 49 | 28°12'06 | 9){ 46 | 15°40 | 0 ჲ 52 | 14°40 | 8°16 | 13°13 | 1°14 | 14°25 | 26°56 | 17°28 | 18°27 | 5°34 | 10°29 | M21 |
| T 22 | 22 2 46 | 29°10'00 | 22°28 | 17°33 | 2° 4 | 15°18 | 8°11 | 13°16 | 1°15 | 14°24 | 26°57 | 17°D28 | 18°23 | 5°40 | 10°31 | T 22 |
| W23 | 22 6 42 | 0Mp 7'55 | 5 ℃ 23 | 19°27 | 3°16 | 15°56 | 8° 6 | 13°20 | 1°15 | 14°22 | 26°59 | 17°29 | 18°20 | 5°47 | 10°33 | W23 |
| T 24 | 22 10 39 | 1° 5'52 | 18°30 | 21°23 | 4°28 | 16°35 | 8° 2 | 13°24 | 1°16 | 14°20 | 27° 0 | 17°30 | 18°17 | 5°54 | 10°35 | T 24 |
| F 25 | 22 14 36 | 2° 3'51 | 1 8 52 | 23°20 | 5°40 | 17°13 | 7°57 | 13°27 | 1°17 | 14°19 | 27° 2 | 17°31 | 18°14 | 6° 0 | 10°37 | F 25 |
| S 26 | 22 18 32 | 3° 1'52 | 15°29 | 25°17 | 6°52 | 17°52 | 7°51 | 13°31 | 1°17 | 14°17 | 27° 3 | 17°32 | 18°11 | 6° 7 | 10°38 | S 26 |
| S 27 | 22 22 29 | 3°59'55 | 29°20 | 27°15 | 8° 4 | 18°30 | 7°46 | 13°35 | 1°18 | 14°16 | 27° 5 | 17°R33 | 18° 8 | 6°14 | 10°40 | S 27 |
| M28 | 22 26 25 | 4°58'00 | 13Ⅲ26 | 29°13 | 9°16 | 19° 9 | 7°41 | 13°39 | 1°18 | 14°14 | 27° 6 | 17°32 | 18° 4 | 6°21 | 10°41 | M28 |
| T 29 | 22 30 22 | 5°56'07 | 27°44 | 1 m p 10 | 10°28 | 19°47 | 7°35 | 13°43 | 1°19 | 14°12 | 27° 7 | 17°32 | 18° 1 | 6°27 | 10°43 | T 29 |
| W30 | 22 34 18 | 6°54'16 | 129513 | 3° 7 | 11°40 | 20°26 | 7°29 | 13°47 | 1°19 | 14°11 | 27° 9 | 17°31 | 17°58 | 6°34 | 10°44 | W30 |
| T 31 | 22 38 15 | 7 m 52'27 | 269547 | 5Mg 4 | 12 ≏ 51 | 21 Mg 4 | 7 Υ 23 | 13 M 51 | 1 I I19 | 14 ∺ 9 | 279510 | 17 ∺ 30 | 17 米 55 | 6 ප 41 | 10 Ⅱ 45 | T 31 |

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SEPTEMBER 1690 GC 00:00 UT

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|--------------|----------------------|----------------------|------------------------|------------------------|----------------|-----------------------|-------------------|-------------------|----------------|--------------------|----------------|----------------|----------------|---------------|----------------|--------------|
| F 1 | 22 42 11 | 8 m 50'40 | 11 Ω 21 | 7 Mg 0 | 14 ♀ 3 | 21 Mp 43 | 7°R17 | 13 M 55 | 1 II 20 | 14°R 7 | 279911 | 17°R29 | 17 ∺ 52 | 6 ප 47 | 10 Ⅱ 47 | F 1 |
| S 2 | 22 46 8 | 9°48'55 | 25°50 | 8°55 | 15°15 | 22°22 | 7 Ƴ 11 | 13°59 | 1°20 | 14 ∺ 6 | 27°13 | 17 ∺ 28 | 17°49 | 6°54 | 10°48 | S 2 |
| S 3 | 22 50 5 | 10°47'11 | 10 m 8 | 10°50 | 16°27 | 23° 0 | 7° 5 | 14° 4 | 1°20 | 14° 4 | 27°14 | 17°27 | 17°45 | 7° 1 | 10°49 | S 3 |
| M 4 | 22 54 1 | 11°45'30 | 24° 9 | 12°43 | 17°38 | 23°39 | 6°58 | 14° 8 | 1°20 | 14° 2 | 27°15 | 17°D27 | 17°42 | 7° 8 | 10°50 | M 4 |
| T 5 W 6 | 22 57 58 23 1 54 | 12°43'50 13°42'12 | 7 ≙ 51 21°10 | 14°35 16°27 | 18°50 20° 1 | 24°18 24°57 | 6°51 6°45 | 14°13 14°17 | 1°20 1°R20 | 14° 1 13°59 | 27°16 27°18 | 17°28 17°28 | 17°39 17°36 | 7°14 7°21 | 10°51 10°52 | T 5 W 6 |
| T 7 | 23 5 51 | 13 42 12 14°40'35 | 4ML 8 | 18°17 | 20°13 | 24 37 25°35 | 6°38 | 14 17 14°22 | 1°20 | 13°57 | 27°19 | 17°28 | 17°33 | 7°28 | 10°53 | T 7 |
| F 8 | 23 9 47 | 15°39'00 | 16°46 | 20° 6 | 22°24 | 26°14 | 6°31 | 14°27 | 1°20 | 13°56 | 27°20 | 17°29 | 17°29 | 7°34 | 10°53 | F 8 |
| S 9 | 23 13 44 | 16°37'27 | 29° 6 | 21°54 | 23°36 | 26°53 | 6°24 | 14°31 | 1°20 | 13°54 | 27°21 | 17°29 | 17°26 | 7°41 | 10°54 | S 9 |
| S 10 | 23 17 40 | 17°35'55 | 11 ~ 13 | 23°41 | 24°47 | 27°32 | 6°17 | 14°36 | 1°20 | 13°53 | 27°22 | 17°29 | 17°23 | 7°48 | 10°55 | S 10 |
| M11 | 23 21 37 | 18°34'26 | 23°11 | 25°27 | 25°58 | 28°11 | 6° 9 | 14°41 | 1°20 | 13°51 | 27°24 | 17°29 | 17°20 | 7°55 | 10°55 | M11 |
| T 12 | 23 25 34 | 19°32'57 | 5 궁 4 | 27°12 | 27°10 | 28°50 | 6° 2 | 14°46 | 1°19 | 13°49 | 27°25 | 17°29 | 17°17 | 8° 1 | 10°56 | T 12 |
| W13 T 14 | 23 29 30 23 33 27 | 20°31'31 21°30'06 | 16°57 28°55 | 28°56 0 <u>0</u> 39 | 28°21 29°32 | 29°29 0 <u>0</u> 8 | 5°55 5°47 | 14°51 14°56 | 1°19 1°19 | 13°48 13°46 | 27°26 27°27 | 17°29 17°29 | 17°14 17°10 | 8° 8 8°15 | 10°56 10°56 | W13 T 14 |
| F 15 | 23 33 27 23 | 21°30'06 22°28'43 | 28°33 11 ≈ 1 | 2°21 | 0ML43 | 0 <u>32</u> 8 0°47 | 5°39 | 14°36 15° 1 | 1°19 | 13°46 13°44 | 27°28 | 17°29 17°30 | 17°10 | 8°21 | 10°56 | F 15 |
| S 16 | 23 41 20 | 23°27'21 | 23°18 | 4° 1 | 1°54 | 1°26 | 5°32 | 15° 7 | 1°18 | 13°43 | 27°29 | 17°31 | 17° 4 | 8°28 | 10°57 | S 16 |
| S 17 | 23 45 16 | 24°26'02 | 5) 49 | 5°41 | 3° 5 | 2° 5 | 5°24 | 15°12 | 1°17 | 13°41 | 27°30 | 17°31 | 17° 1 | 8°35 | 10°R57 | S 17 |
| M18 | 23 49 13 | 25°24'44 | 18°36 | 7°20 | 4°16 | 2°45 | 5°16 | 15°17 | 1°17 | 13°39 | 27°31 | 17°R31 | 16°58 | 8°42 | 10°57 | M18 |
| T 19 | 23 53 9 | 26°23'28 | 1 Υ 38 | 8°58 | 5°27 | 3°24 | 5° 8 | 15°23 | 1°16 | 13°38 | 27°32 | 17°31 | 16°54 | 8°48 | 10°57 | T 19 |
| W20 T 21 | 23 57 6 0 1 2 | 27°22'14 28°21'03 | 14°57 28°30 | 10°35 12°10 | 6°38 7°49 | 4° 3 4°42 | 5° 0 4°52 | 15°28 15°34 | 1°15 1°15 | 13°36 13°35 | 27°33 27°34 | 17°30 17°29 | 16°51 16°48 | 8°55 9° 2 | 10°56 10°56 | W20 T 21 |
| F 22 | 0 1 2 | 28 21 03 29°19'53 | 12 8 15 | 12 10 13°45 | 8°59 | 5°22 | 4°44 | 15°39 | 1°14 | 13°33 | 27°35 | 17°27 | 16°45 | 9° 8 | 10°56 | F 22 |
| S 23 | 0 8 56 | 0₽18'46 | 26°11 | 15°20 | 10°10 | 6° 1 | 4°36 | 15°45 | 1°13 | 13°31 | 27°36 | 17°26 | 16°42 | 9°15 | 10°55 | S 23 |
| S 24 | 0 12 52 | 1°17'41 | 10 Ⅱ 14 | 16°53 | 11°20 | 6°40 | 4°28 | 15°51 | 1°12 | 13°30 | 27°37 | 17°25 | 16°39 | 9°22 | 10°55 | S 24 |
| M25 | 0 16 49 | 2°16'39 | 24°23 | 18°25 | 12°31 | 7°20 | 4°20 | 15°57 | 1°11 | 13°28 | 27°37 | 17°24 | 16°35 | 9°29 | 10°55 | M25 |
| T 26 | 0 20 45 | 3°15'39 | 8935 | 19°57 | 13°41 | 7°59 | 4°12 | 16° 2 | 1°10 | 13°27 | 27°38 | 17°D24 | 16°32 | 9°35 | 10°54 | T 26 |
| W27 | 0 24 42 | 4°14'41 | 22°48 | 21°27 | 14°52 | 8°39 | 4° 4 | 16° 8 | 1° 9 | 13°25 | 27°39 | 17°24 | 16°29 | 9°42 | 10°53 | W27 |
| T 28 F 29 | 0 28 38 0 32 35 | 5°13'45 6°12'52 | 7Ω 0 21° 7 | 22°57 24°26 | 16° 2 17°12 | 9°18 9°58 | 3°56 3°48 | 16°14 16°20 | 1° 8 1° 7 | 13°24 13°22 | 27°40 27°41 | 17°26 17°27 | 16°26 16°23 | 9°49 9°55 | 10°53 10°52 | T 28 F 29 |
| S 30 | 0 32 33 | 7 ₽ 12'01 | 5 m 8 | 25 ₽ 54 | 18 M 23 | 10 ≏ 37 | 3^{48} 3^{40} | 16 20 16 ML 26 | 1 I 6 | 13 X 21 | 279541 | 17) 27 | 16 ± 25 | 10 る 2 | 10 I 51 | S 30 |

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Greg. Calendar

| OCTOBER 1690 GC | 00:00 UT |
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| Day | Sid.t | 0 | D | ğ | · | δ | 4 | ħ |)f(| ¥ | Р | ß | ಬ | Ç | ķ | Day |
|------|---------|------------------|----------------|----------------|-----------------|----------------|---------------|----------------|----------------|------------------|--------|----------------|------------------|----------------|----------------|------|
| S 1 | 0 40 28 | 8 ₾ 11'12 | 18 m 59 | 27 ≗ 21 | 19 M _33 | 11 ≏ 17 | 3°R32 | 16 M 32 | 1°R 5 | 13°R19 | 279542 | 17°R28 | 16 ∺ 16 | 10ට 9 | 10°R50 | S 1 |
| M 2 | 0 44 25 | 9°10'26 | 2 ≏ 39 | 28°47 | 20°43 | 11°57 | 3 Υ 24 | 16°38 | 1 I I 4 | 13 米 18 | 27°43 | 17) 28 | 16°13 | 10°16 | 10 Ⅱ 49 | M 2 |
| T 3 | 0 48 21 | 10° 9'41 | 16° 4 | 0 M .12 | 21°53 | 12°36 | 3°16 | 16°45 | 1° 2 | 13°16 | 27°44 | 17°26 | 16°10 | 10°22 | 10°48 | T 3 |
| W 4 | 0 52 18 | 11° 8'58 | 29°13 | 1°36 | 23° 3 | 13°16 | 3° 8 | 16°51 | 1° 1 | 13°15 | 27°44 | 17°23 | 16° 7 | 10°29 | 10°47 | W 4 |
| T 5 | 0 56 14 | 12° 8'18 | 12 M 4 | 3° 0 | 24°13 | 13°56 | 3° 0 | 16°57 | 0°59 | 13°14 | 27°45 | 17°19 | 16° 4 | 10°36 | 10°45 | T 5 |
| F 6 | 1 0 11 | 13° 7'39 | 24°39 | 4°22 | 25°23 | 14°36 | 2°52 | 17° 3 | 0°58 | 13°12 | 27°45 | 17°15 | 16° 0 | 10°42 | 10°44 | F 6 |
| S 7 | 1 4 7 | 14° 7'03 | 6 ₹ 59 | 5°43 | 26°32 | 15°16 | 2°45 | 17°10 | 0°57 | 13°11 | 27°46 | 17°11 | 15°57 | 10°49 | 10°43 | S 7 |
| S 8 | 1 8 4 | 15° 6'28 | 19° 6 | 7° 4 | 27°42 | 15°56 | 2°37 | 17°16 | 0°55 | 13°10 | 27°46 | 17° 7 | 15°54 | 10°56 | 10°41 | S 8 |
| M 9 | 1 12 0 | 16° 5'55 | 1중 4 | 8°23 | 28°51 | 16°35 | 2°29 | 17°23 | 0°54 | 13° 8 | 27°47 | 17° 5 | 15°51 | 11° 2 | 10°40 | M 9 |
| T 10 | 1 15 57 | 17° 5'24 | 12°56 | 9°41 | 0 才 1 | 17°15 | 2°22 | 17°29 | 0°52 | 13° 7 | 27°48 | 17°D 4 | 15°48 | 11° 9 | 10°38 | T 10 |
| W11 | 1 19 54 | 18° 4'55 | 24°48 | 10°57 | 1°10 | 17°55 | 2°14 | 17°36 | 0°50 | 13° 6 | 27°48 | 17° 4 | 15°45 | 11°16 | 10°36 | W11 |
| T 12 | 1 23 50 | 19° 4'27 | 6≈45 | 12°12 | 2°19 | 18°36 | 2° 7 | 17°42 | 0°49 | 13° 4 | 27°48 | 17° 5 | 15°41 | 11°23 | 10°35 | T 12 |
| F 13 | 1 27 47 | 20° 4'01 | 18°51 | 13°26 | 3°29 | 19°16 | 2° 0 | 17°49 | 0°47 | 13° 3 | 27°49 | 17° 7 | 15°38 | 11°29 | 10°33 | F 13 |
| S 14 | 1 31 43 | 21° 3'37 | 1) (11 | 14°38 | 4°38 | 19°56 | 1°52 | 17°55 | 0°45 | 13° 2 | 27°49 | 17° 8 | 15°35 | 11°36 | 10°31 | S 14 |
| S 15 | 1 35 40 | 22° 3'14 | 13°49 | 15°49 | 5°46 | 20°36 | 1°45 | 18° 2 | 0°43 | 13° 1 | 27°50 | 17°R 9 | 15°32 | 11°43 | 10°29 | S 15 |
| M16 | 1 39 36 | 23° 2'54 | 26°48 | 16°57 | 6°55 | 21°16 | 1°38 | 18° 9 | 0°42 | 12°59 | 27°50 | 17° 9 | 15°29 | 11°49 | 10°27 | M16 |
| T 17 | 1 43 33 | 24° 2'35 | 10 Y 8 | 18° 3 | 8° 4 | 21°56 | 1°31 | 18°15 | 0°40 | 12°58 | 27°50 | 17° 7 | 15°26 | 11°56 | 10°25 | T 17 |
| W18 | 1 47 29 | 25° 2'18 | 23°50 | 19° 7 | 9°13 | 22°37 | 1°25 | 18°22 | 0°38 | 12°57 | 27°51 | 17° 3 | 15°22 | 12° 3 | 10°23 | W18 |
| T 19 | 1 51 26 | 26° 2'04 | 7 8 50 | 20° 9 | 10°21 | 23°17 | 1°18 | 18°29 | 0°36 | 12°56 | 27°51 | 16°57 | 15°19 | 12°10 | 10°21 | T 19 |
| F 20 | 1 55 23 | 27° 1'51 | 22° 5 | 21° 8 | 11°29 | 23°57 | 1°12 | 18°36 | 0°34 | 12°55 | 27°51 | 16°51 | 15°16 | 12°16 | 10°19 | F 20 |
| S 21 | 1 59 19 | 28° 1'41 | 6 II 29 | 22° 3 | 12°38 | 24°38 | 1° 5 | 18°42 | 0°32 | 12°54 | 27°51 | 16°45 | 15°13 | 12°23 | 10°16 | S 21 |
| S 22 | 2 3 16 | 29° 1'32 | 20°55 | 22°56 | 13°46 | 25°18 | 0°59 | 18°49 | 0°30 | 12°53 | 27°52 | 16°39 | 15°10 | 12°30 | 10°14 | S 22 |
| M23 | 2 7 12 | OM 1'26 | 5920 | 23°44 | 14°54 | 25°58 | 0°53 | 18°56 | 0°28 | 12°52 | 27°52 | 16°35 | 15° 6 | 12°36 | 10°12 | M23 |
| T 24 | 2 11 9 | 1° 1'22 | 19°38 | 24°29 | 16° 2 | 26°39 | 0°47 | 19° 3 | 0°26 | 12°51 | 27°52 | 16°32 | 15° 3 | 12°43 | 10° 9 | T 24 |
| W25 | 2 15 5 | 2° 1'21 | 3 Ω 47 | 25° 8 | 17° 9 | 27°20 | 0°41 | 19°10 | 0°24 | 12°50 | 27°52 | 16°D32 | 15° 0 | 12°50 | 10° 7 | W25 |
| T 26 | 2 19 2 | 3° 1'21 | 17°45 | 25°43 | 18°17 | 28° 0 | 0°35 | 19°17 | 0°22 | 12°49 | 27°52 | 16°32 | 14°57 | 12°57 | 10° 4 | T 26 |
| F 27 | 2 22 58 | 4° 1'24 | 1 m 32 | 26°12 | 19°24 | 28°41 | 0°30 | 19°24 | 0°19 | 12°48 | 27°52 | 16°34 | 14°54 | 13° 3 | 10° 1 | F 27 |
| S 28 | 2 26 55 | 5° 1'29 | 15° 8 | 26°34 | 20°32 | 29°21 | 0°25 | 19°31 | 0°17 | 12°47 | 27°52 | 16°R34 | 14°51 | 13°10 | 9°59 | S 28 |
| S 29 | 2 30 52 | 6° 1'36 | 28°34 | 26°50 | 21°39 | OM 2 | 0°19 | 19°38 | 0°15 | 12°46 | 27°R52 | 16°34 | 14°47 | 13°17 | 9°56 | S 29 |
| M30 | 2 34 48 | 7° 1'45 | 11 ≏ 48 | 26°R57 | 22°46 | 0°43 | 0°14 | 19°45 | 0°13 | 12°46 | 27°52 | 16°31 | 14°44 | 13°23 | 9°53 | M30 |
| T 31 | 2 38 45 | 8M 1'55 | 24 ♀ 51 | 26M57 | 23 × 53 | 1 M 24 | 0 Υ 10 | 19 M 52 | 0 Ⅱ 11 | 12) (45 | 27952 | 16 ¥ 25 | 14) (41 | 13 る 30 | 9耳50 | T 31 |

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| Day | Sid.t | 0 | D | ğ | φ | ♂ [™] | 4 | ħ |)∤(| 卉 | В | ß | v | ţ | ę, | Day |
|------|---------|-------------------|----------------|-----------------|-----------------|----------------|----------------|-----------------|----------------|------------------|--------|----------------|------------------|-----------------|--------------|------|
| W 1 | 2 42 41 | 9M 2'08 | 7 M 42 | 26°R48 | 24 × 759 | 2M 5 | 0°R 5 | 19 M .59 | 0°R 8 | 12°R44 | 27°R52 | 16°R18 | 14) (38 | 13 る 37 | 9°R47 | W 1 |
| T 2 | 2 46 38 | 10° 2'23 | 20°21 | 26M29 | 26° 6 | 2°45 | 0 Υ 0 | 20° 6 | 0 I I 6 | 12) (43 | 279552 | 16 米 8 | 14°35 | 13°43 | 9∏45 | T 2 |
| F 3 | 2 50 34 | 11° 2'39 | 2 , 748 | 26° 1 | 27°12 | 3°26 | 29 米 56 | 20°13 | 0° 4 | 12°43 | 27°52 | 15°57 | 14°31 | 13°50 | 9°42 | F 3 |
| S 4 | 2 54 31 | 12° 2'57 | 15° 2 | 25°22 | 28°18 | 4° 7 | 29°52 | 20°20 | 0° 1 | 12°42 | 27°52 | 15°47 | 14°28 | 13°57 | 9°39 | S 4 |
| S 5 | 2 58 27 | 13° 3'17 | 27° 6 | 24°34 | 29°24 | 4°48 | 29°48 | 20°27 | 29 8 59 | 12°41 | 27°51 | 15°37 | 14°25 | 14° 4 | 9°35 | S 5 |
| M 6 | 3 2 24 | 14° 3'38 | 9 ਰ 1 | 23°37 | 0 중 30 | 5°29 | 29°44 | 20°34 | 29°56 | 12°41 | 27°51 | 15°29 | 14°22 | 14°10 | 9°32 | M 6 |
| T 7 | 3 6 21 | 15° 4'01 | 20°52 | 22°31 | 1°35 | 6°10 | 29°41 | 20°42 | 29°54 | 12°40 | 27°51 | 15°23 | 14°19 | 14°17 | 9°29 | T 7 |
| W 8 | 3 10 17 | 16° 4'25 | 2≈42 | 21°19 | 2°40 | 6°52 | 29°38 | 20°49 | 29°52 | 12°40 | 27°51 | 15°20 | 14°16 | 14°24 | 9°26 | W 8 |
| T 9 | 3 14 14 | 17° 4'51 | 14°35 | 20° 1 | 3°46 | 7°33 | 29°34 | 20°56 | 29°49 | 12°39 | 27°51 | 15°D19 | 14°12 | 14°30 | 9°23 | T 9 |
| F 10 | 3 18 10 | 18° 5'18 | 26°38 | 18°41 | 4°50 | 8°14 | 29°31 | 21° 3 | 29°47 | 12°39 | 27°50 | 15°19 | 14° 9 | 14°37 | 9°20 | F 10 |
| S 11 | 3 22 7 | 19° 5'46 | 8 ∺ 56 | 17°20 | 5°55 | 8°55 | 29°29 | 21°10 | 29°44 | 12°38 | 27°50 | 15°R20 | 14° 6 | 14°44 | 9°16 | S 11 |
| S 12 | 3 26 3 | 20° 6'15 | 21°33 | 16° 2 | 6°59 | 9°36 | 29°26 | 21°17 | 29°42 | 12°38 | 27°50 | 15°20 | 14° 3 | 14°51 | 9°13 | S 12 |
| M13 | 3 30 0 | 21° 6'46 | 4 Υ 35 | 14°49 | 8° 3 | 10°18 | 29°24 | 21°24 | 29°39 | 12°38 | 27°49 | 15°18 | 14° 0 | 14°57 | 9°10 | M13 |
| T 14 | 3 33 56 | 22° 7'18 | 18° 3 | 13°44 | 9° 7 | 10°59 | 29°22 | 21°32 | 29°37 | 12°37 | 27°49 | 15°14 | 13°57 | 15° 4 | 9° 6 | T 14 |
| W15 | 3 37 53 | 23° 7'51 | 1858 | 12°48 | 10°11 | 11°40 | 29°20 | 21°39 | 29°34 | 12°37 | 27°48 | 15° 7 | 13°53 | 15°11 | 9° 3 | W15 |
| T 16 | 3 41 50 | 24° 8'26 | 16°18 | 12° 2 | 11°14 | 12°22 | 29°18 | 21°46 | 29°32 | 12°37 | 27°48 | 14°58 | 13°50 | 15°17 | 8°59 | T 16 |
| F 17 | 3 45 46 | 25° 9'03 | 0耳58 | 11°27 | 12°17 | 13° 3 | 29°16 | 21°53 | 29°29 | 12°36 | 27°47 | 14°47 | 13°47 | 15°24 | 8°56 | F 17 |
| S 18 | 3 49 43 | 26° 9'41 | 15°50 | 11° 5 | 13°19 | 13°45 | 29°15 | 22° 0 | 29°27 | 12°36 | 27°47 | 14°36 | 13°44 | 15°31 | 8°52 | S 18 |
| S 19 | 3 53 39 | 27°10'20 | 09945 | 10°D53 | 14°21 | 14°26 | 29°14 | 22° 7 | 29°24 | 12°36 | 27°46 | 14°26 | 13°41 | 15°37 | 8°49 | S 19 |
| M20 | 3 57 36 | 28°11'01 | 15°33 | 10°53 | 15°23 | 15° 8 | 29°13 | 22°14 | 29°22 | 12°36 | 27°46 | 14°18 | 13°37 | 15°44 | 8°45 | M20 |
| T 21 | 4 1 32 | 29°11'44 | ON 9 | 11° 4 | 16°25 | 15°50 | 29°12 | 22°21 | 29°19 | 12°36 | 27°45 | 14°13 | 13°34 | 15°51 | 8°42 | T 21 |
| W22 | 4 5 29 | 12'28 ح ي | 14°28 | 11°24 | 17°26 | 16°31 | 29°12 | 22°29 | 29°17 | 12°36 | 27°45 | 14°10 | 13°31 | 15°58 | 8°38 | W22 |
| T 23 | 4 9 25 | 1°13'14 | 28°27 | 11°54 | 18°27 | 17°13 | 29°12 | 22°36 | 29°14 | 12°36 | 27°44 | 14°D 9 | 13°28 | 16° 4 | 8°35 | T 23 |
| F 24 | 4 13 22 | 2°14'01 | 12 mg 7 | 12°31 | 19°27 | 17°55 | 29°D12 | 22°43 | 29°12 | 12°D36 | 27°43 | 14°R 9 | 13°25 | 16°11 | 8°31 | F 24 |
| S 25 | 4 17 19 | 3°14'49 | 25°29 | 13°15 | 20°27 | 18°37 | 29°12 | 22°50 | 29° 9 | 12°36 | 27°43 | 14° 9 | 13°22 | 16°18 | 8°28 | S 25 |
| S 26 | 4 21 15 | 4°15'40 | 8 ≏ 37 | 14° 6 | 21°27 | 19°19 | 29°12 | 22°57 | 29° 7 | 12°36 | 27°42 | 14° 7 | 13°18 | 16°24 | 8°24 | S 26 |
| M27 | 4 25 12 | 5°16'31 | 21°31 | 15° 2 | 22°26 | 20° 1 | 29°13 | 23° 4 | 29° 4 | 12°36 | 27°41 | 14° 2 | 13°15 | 16°31 | 8°20 | M27 |
| T 28 | 4 29 8 | 6°17'24 | 4 M .13 | 16° 3 | 23°25 | 20°42 | 29°13 | 23°11 | 29° 2 | 12°36 | 27°41 | 13°54 | 13°12 | 16°38 | 8°17 | T 28 |
| W29 | 4 33 5 | 7°18'19 | 16°46 | 17° 8 | 2 <u>4</u> °23 | 21°24 | 29°14 | 23°18 | 28°59 | 12°36 | 27°40 | 13°43 | 13° 9 | 1 <u>6</u> °44 | 8°13 | W29 |
| T 30 | 4 37 1 | 8 ,7 19'14 | 29M 9 | 18 M .17 | 25 궁 21 | 22M 6 | 29 米 15 | 23 M 25 | 28 8 57 | 12) 36 | 27939 | 13 ∺ 30 | 13 米 6 | 16 පි 51 | 8 I 9 | T 30 |

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Greg. Calendar

DECEMBER 1690 GC 00:00 UT

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| F 1 | 4 40 58 | 9 × 120'11 | 11 × ⁷ 23 | 19 M 29 | 26 궁 18 | 22 M 49 | 29 米 17 | 23M32 | 28°R54 | 12) 37 | 27°R38 | 13°R15 | 13 ∺ 3 | 16 ට 58 | 8°R 6 | F 1 |
| S 2 | 4 44 54 | 10°21'09 | 23°29 | 20°44 | 27°15 | 23°31 | 29°18 | 23°39 | 28 8 52 | 12°37 | 27937 | 13 ∺ 0 | 12°59 | 17° 5 | 8 I I 2 | S 2 |
| S 3 | 4 48 51 | 11°22'07 | 5 云 27 | 22° 1 | 28°11 | 24°13 | 29°20 | 23°46 | 28°49 | 12°37 | 27°37 | 12°46 | 12°56 | 17°11 | 7°59 | S 3 |
| M 4 | 4 52 48 | 12°23'07 | 17°20 | 23°20 | 29° 7 | 24°55 | 29°22 | 23°53 | 28°47 | 12°38 | 27°36 | 12°35 | 12°53 | 17°18 | 7°55 | M 4 |
| T 5 | 4 56 44 | 13°24'07 | 29° 8 | 24°40 | 0≈ 2 | 25°37 | 29°24 | 24° 0 | 28°44 | 12°38 | 27°35 | 12°26 | 12°50 | 17°25 | 7°51 | T 5 |
| W 6 | 5 0 41 | 14°25'08 | 10≈57 | 26° 3 | 0°57 | 26°20 | 29°27 | 24° 7 | 28°42 | 12°38 | 27°34 | 12°20 | 12°47 | 17°31 | 7°48 | W 6 |
| T 7 | 5 4 37 | 15°26'09 | 22°48 | 27°26 | 1°51 | 27° 2 | 29°29 | 24°13 | 28°40 | 12°39 | 27°33 | 12°16 | 12°43 | 17°38 | 7°44 | T 7 |
| F 8 | 5 8 34 | 16°27'11 | 4) (48 | 28°51 | 2°44 | 27°44 | 29°32 | 24°20 | 28°37 | 12°39 | 27°32 | 12°15 | 12°40 | 17°45 | 7°41 | F 8 |
| S 9 | 5 12 30 | 17°28'13 | 17° 1 | 0 才 17 | 3°36 | 28°27 | 29°35 | 24°27 | 28°35 | 12°40 | 27°31 | 12°15 | 12°37 | 17°51 | 7°37 | S 9 |
| S 10 | 5 16 27 | 18°29'16 | 29°33 | 1°43 | 4°28 | 29° 9 | 29°38 | 24°34 | 28°32 | 12°40 | 27°30 | 12°15 | 12°34 | 17°58 | 7°33 | S 10 |
| M11 | 5 20 24 | 19°30'20 | 12 Y 29 | 3°10 | 5°19 | 29°52 | 29°42 | 24°40 | 28°30 | 12°41 | 27°29 | 12°13 | 12°31 | 18° 5 | 7°30 | M11 |
| T 12 | 5 24 20 | 20°31'23 | 25°53 | 4°38 | 6° 9 | 0 , 734 | 29°45 | 24°47 | 28°28 | 12°42 | 27°28 | 12° 9 | 12°28 | 18°12 | 7°26 | T 12 |
| W13 | 5 28 17 | 21°32'27 | 9848 | 6° 7 | 6°59 | 1°17 | 29°49 | 24°54 | 28°26 | 12°42 | 27°27 | 12° 3 | 12°24 | 18°18 | 7°23 | W13 |
| T 14 | 5 32 13 | 22°33'32 | 24°12 | 7°36 9°5 | 7°47 | 1°59 | 29°53 | 25° 0 | 28°23 | 12°43 | 27°26 | 11°53 | 12°21 | 18°25 | 7°19 | T 14 |
| F 15 | 5 36 10 | 23°34'37 | 9 Ⅱ 2 | | 8°35 | 2°42 | 29°57 0 ° 2 | 25° 7 | 28°21 | 12°44 | 27°25 | 11°42 | 12°18 | 18°32 | 7°16 | F 15 |
| S 16 | 5 40 6 | 24°35'43 | 24°10 | 10°35 | 9°22 | 3°25 | | 25°14 | 28°19 | 12°44 | 27°24 | 11°31 | 12°15 | 18°38 | 7°12 | S 16 |
| S 17 | 5 44 3 | 25°36'49 | 9 9 25 | 12° 5 | 10° 7 | 4° 7 | 0° 6 | 25°20 | 28°17 | 12°45 | 27°23 | 11°20 | 12°12 | 18°45 | 7° 9 | S 17 |
| M18 | 5 47 59 | 26°37'55 | 24°36 | 13°35 | 10°52 | 4°50 | 0°11 | 25°27 | 28°15 | 12°46 | 27°22 | 11°11 | 12° 9 | 18°52 | 7° 6 | M18 |
| T 19 | 5 51 56 | 27°39'02 | 9 Ω 34 | 15° 6 | 11°36 | 5°33 | 0°16 | 25°33 | 28°13 | 12°47 | 27°21 | 11° 5 | 12° 5 | 18°58 | 7° 2 | T 19 |
| W20 | 5 55 53 | 28°40'10 | 24°11 | 16°37 | 12°18 | 6°16 | 0°21 | 25°39 | 28°10 | 12°48 | 27°19 | 11° 2 | 12° 2 | 19° 5 | 6°59 | W20 |
| T 21 F 22 | 5 59 49 | 29°41'18 0 る 42'27 | 8 Mp 23 22°10 | 18° 9 19°41 | 13° 0 13°40 | 6°59 7°42 | 0°26 0°32 | 25°46 25°52 | 28° 8 28° 6 | 12°49 12°50 | 27°18 27°17 | 11°D 1 11° 1 | 11°59 11°56 | 19°12 19°19 | 6°56 6°53 | T 21 F 22 |
| S 23 | 6 3 46 6 7 42 | 1°43'36 | 5 <u>₽</u> 33 | 21°13 | 13°40 14°19 | 8°25 | 0°32 0°38 | 25°52 25°58 | 28° 4 | 12°51 | 27°17 | 11° I 11°R 1 | 11°53 | 19°19 19°25 | 6°49 | S 23 |
| | | | | | | | | | | _ | | | | | | |
| S 24 | 6 11 39 | 2°44'46 | 18°35 | 22°45 | 14°57 | 9° 8 | 0°43 | 26° 5 | 28° 2 | 12°52 | 27°15 | 11° 0 | 11°49 | 19°32 | 6°46 | S 24 |
| M25 | 6 15 35 | 3°45'56 | 1 M .19 | 24°18 | 15°34 | 9°51 | 0°49 | 26°11 | 28° 0 | 12°53 | 27°14 | 10°57 | 11°46 | 19°39 | 6°43 | M25 |
| T 26 | 6 19 32 | 4°47'07 | 13°49 | 25°51 | 16° 9 | 10°34 | 0°56 | 26°17 | 27°59 | 12°54 | 27°12 | 10°50 | 11°43 | 19°45 | 6°40 | T 26 |
| W27 | 6 23 28 6 27 25 | 5°48'18 6°49'29 | 26° 7 8 ∡ 17 | 27°24 28°58 | 16°43 17°15 | 11°17 12° 0 | 1° 2 1° 8 | 26°23 26°29 | 27°57 27°55 | 12°55 12°56 | 27°11 27°10 | 10°41 10°30 | 11°40 11°37 | 19°52 19°59 | 6°37 6°34 | W27 T 28 |
| T 28 F 29 | 6 2 / 2 3 6 3 1 2 2 | 7°50'41 | 20°20 | 28°38 0 중 32 | 17°15 | 12°43 | 1°15 | 26°29 26°35 | 27°53 | 12°57 | 27°10 27° 9 | 10°30 10°18 | 11°37 | 19°59 20° 5 | 6°34 | F 29 |
| S 30 | 6 35 18 | 8°51'52 | 20 20 2 정 17 | 2° 6 | 17 46 18°15 | 12 43 13°27 | 1°22 | 26°41 | 27°51 | 12°58 | 27° 7 | 10° 18 | 11°30 | 20°12 | 6°28 | S 30 |
| | | | | | | | 1Υ29 | | | | | | | - | | |
| S 31 | 6 39 15 | 9 ට 53'04 | 14 궁 10 | 3 る 40 | 18≈42 | 14 × 10 | 1.1.29 | 26 M 47 | 27 8 50 | 13 ∺ 0 | 2795 6 | 9) 53 | 11 米 27 | 20 궁 19 | 6 Ⅱ 25 | S 31 |

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JANUARY 1691 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)f(| ħ | Р | ß | Ω | ţ | ę k | Day |
|------|---------|-------------------|-----------------|---------------|--------|-----------------|---------------|-----------------|----------------|----------------|--------|---------------|----------------|----------------|---------------|------|
| M 1 | 6 43 11 | 10 ට 54'15 | 26 궁 0 | 5 る 15 | 19≈ 8 | 14 × 753 | 1 Υ 36 | 26M53 | 27°R48 | 13) 1 | 27°R 5 | 9°R43 | 11) 24 | 20 궁 25 | 6°R22 | M 1 |
| T 2 | 6 47 8 | 11°55'26 | 7≈49 | 6°51 | 19°32 | 15°37 | 1°44 | 26°58 | 27 8 46 | 13° 2 | 2795 4 | 9 ∺ 35 | 11°21 | 20°32 | 6 Ⅱ 20 | T 2 |
| W 3 | 6 51 4 | 12°56'37 | 19°39 | 8°27 | 19°54 | 16°20 | 1°51 | 27° 4 | 27°45 | 13° 4 | 27° 2 | 9°30 | 11°18 | 20°39 | 6°17 | W 3 |
| T 4 | 6 55 1 | 13°57'48 | 1 ★33 | 10° 3 | 20°14 | 17° 3 | 1°59 | 27°10 | 27°43 | 13° 5 | 27° 1 | 9°28 | 11°15 | 20°46 | 6°14 | T 4 |
| F 5 | 6 58 58 | 14°58'58 | 13°34 | 11°39 | 20°32 | 17°47 | 2° 6 | 27°15 | 27°42 | 13° 6 | 27° 0 | 9°D28 | 11°11 | 20°52 | 6°12 | F 5 |
| S 6 | 7 2 54 | 16° 0'07 | 25°47 | 13°16 | 20°48 | 18°31 | 2°14 | 27°21 | 27°40 | 13° 8 | 26°58 | 9°29 | 11° 8 | 20°59 | 6° 9 | S 6 |
| S 7 | 7 6 51 | 17° 1'16 | 8 Y 16 | 14°54 | 21° 2 | 19°14 | 2°23 | 27°26 | 27°39 | 13° 9 | 26°57 | 9°30 | 11° 5 | 21° 6 | 6° 7 | S 7 |
| M 8 | 7 10 47 | 18° 2'25 | 21° 6 | 16°32 | 21°14 | 19°58 | 2°31 | 27°32 | 27°38 | 13°11 | 26°56 | 9°R30 | 11° 2 | 21°12 | 6° 4 | M 8 |
| T 9 | 7 14 44 | 19° 3'32 | 4821 | 18°10 | 21°23 | 20°41 | 2°39 | 27°37 | 27°36 | 13°12 | 26°54 | 9°29 | 10°59 | 21°19 | 6° 2 | T 9 |
| W10 | 7 18 40 | 20° 4'39 | 18° 6 | 19°49 | 21°31 | 21°25 | 2°48 | 27°42 | 27°35 | 13°14 | 26°53 | 9°26 | 10°55 | 21°26 | 6° 0 | W10 |
| T 11 | 7 22 37 | 21° 5'45 | 2 Ⅱ 19 | 21°28 | 21°35 | 22° 9 | 2°56 | 27°47 | 27°34 | 13°15 | 26°52 | 9°20 | 10°52 | 21°32 | 5°57 | T 11 |
| F 12 | 7 26 33 | 22° 6'51 | 17° 1 | 23° 8 | 21°R38 | 22°52 | 3° 5 | 27°53 | 27°33 | 13°17 | 26°50 | 9°13 | 10°49 | 21°39 | 5°55 | F 12 |
| S 13 | 7 30 30 | 23° 7'56 | 295 4 | 24°49 | 21°38 | 23°36 | 3°14 | 27°58 | 27°31 | 13°18 | 26°49 | 9° 6 | 10°46 | 21°46 | 5°53 | S 13 |
| S 14 | 7 34 27 | 24° 9'00 | 17°21 | 26°30 | 21°35 | 24°20 | 3°23 | 28° 3 | 27°30 | 13°20 | 26°48 | 8°59 | 10°43 | 21°52 | 5°51 | S 14 |
| M15 | 7 38 23 | 25°10'04 | 2 Ω 41 | 28°11 | 21°30 | 25° 4 | 3°33 | 28° 8 | 27°29 | 13°22 | 26°46 | 8°53 | 10°40 | 21°59 | 5°49 | M15 |
| T 16 | 7 42 20 | 26°11'07 | 17°51 | 29°53 | 21°22 | 25°48 | 3°42 | 28°12 | 27°28 | 13°23 | 26°45 | 8°49 | 10°36 | 22° 6 | 5°47 | T 16 |
| W17 | 7 46 16 | 27°12'09 | 2 Mp 44 | 1≈36 | 21°12 | 26°32 | 3°52 | 28°17 | 27°27 | 13°25 | 26°44 | 8°D48 | 10°33 | 22°13 | 5°45 | W17 |
| T 18 | 7 50 13 | 28°13'10 | 17°13 | 3°18 | 20°59 | 27°16 | 4° 1 | 28°22 | 27°27 | 13°27 | 26°42 | 8°48 | 10°30 | 22°19 | 5°43 | T 18 |
| F 19 | 7 54 9 | 29°14'12 | 1 ≏ 14 | 5° 2 | 20°44 | 28° 0 | 4°11 | 28°26 | 27°26 | 13°28 | 26°41 | 8°49 | 10°27 | 22°26 | 5°42 | F 19 |
| S 20 | 7 58 6 | 0≈15'12 | 14°47 | 6°46 | 20°26 | 28°44 | 4°21 | 28°31 | 27°25 | 13°30 | 26°40 | 8°50 | 10°24 | 22°33 | 5°40 | S 20 |
| S 21 | 8 2 2 | 1°16'12 | 27°55 | 8°30 | 20° 6 | 29°28 | 4°31 | 28°36 | 27°24 | 13°32 | 26°38 | 8°R51 | 10°21 | 22°39 | 5°38 | S 21 |
| M22 | 8 5 59 | 2°17'12 | 10 ML 40 | 10°14 | 19°44 | 0 궁 12 | 4°41 | 28°40 | 27°23 | 13°34 | 26°37 | 8°51 | 10°17 | 22°46 | 5°37 | M22 |
| T 23 | 8 9 56 | 3°18'11 | 23° 7 | 11°59 | 19°20 | 0°56 | 4°51 | 28°44 | 27°23 | 13°36 | 26°36 | 8°49 | 10°14 | 22°53 | 5°35 | T 23 |
| W24 | 8 13 52 | 4°19'09 | 5 ₹ 20 | 13°44 | 18°53 | 1°41 | 5° 1 | 28°49 | 27°22 | 13°37 | 26°34 | 8°46 | 10°11 | 22°59 | 5°34 | W24 |
| T 25 | 8 17 49 | 5°20'07 | 17°22 | 15°29 | 18°24 | 2°25 | 5°12 | 28°53 | 27°22 | 13°39 | 26°33 | 8°40 | 10° 8 | 23° 6 | 5°33 | T 25 |
| F 26 | 8 21 45 | 6°21'04 | 29°18 | 17°14 | 17°54 | 3° 9 | 5°23 | 28°57 | 27°21 | 13°41 | 26°32 | 8°35 | 10° 5 | 23°13 | 5°32 | F 26 |
| S 27 | 8 25 42 | 7°22'00 | 11 궁 9 | 18°58 | 17°22 | 3°53 | 5°33 | 29° 1 | 27°21 | 13°43 | 26°30 | 8°28 | 10° 2 | 23°19 | 5°30 | S 27 |
| S 28 | 8 29 38 | 8°22'55 | 22°59 | 20°42 | 16°49 | 4°38 | 5°44 | 29° 5 | 27°20 | 13°45 | 26°29 | 8°23 | 9°58 | 23°26 | 5°29 | S 28 |
| M29 | 8 33 35 | 9°23'48 | 4≈49 | 22°25 | 16°14 | 5°22 | 5°55 | 29° 9 | 27°20 | 13°47 | 26°28 | 8°18 | 9°55 | 23°33 | 5°28 | M29 |
| T 30 | 8 37 31 | 10°24'41 | 16°41 | 24° 8 | 15°38 | 6° 7 | 6° 6 | 29°12 | 27°20 | 13°49 | 26°26 | 8°15 | 9°52 | 23°39 | 5°27 | T 30 |
| W31 | 8 41 28 | 11≈25'33 | 28≈37 | 25≈49 | 15≈ 2 | 6 ਰ 51 | 6 Ƴ 17 | 29 IL 16 | 27 8 20 | 13 米 51 | 26925 | 8 ∺ 13 | 9 米 49 | 23 궁 46 | 5 Ⅱ 27 | W31 |

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Greg. Calendar

FEBRUARY 1691 GC 00:00 UT

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|------|----------|-------------------|-----------------|-----------------|----------------|----------------|---------------|---------------|----------------|----------------|--------|---------------|----------------|----------------|----------------|------|
| T 1 | 8 45 25 | 12≈26'23 | 10 ∺ 39 | 27≈28 | 14°R25 | 7 궁 36 | 6 Υ 28 | 29M20 | 27°R19 | 13 米 53 | 26°R24 | 8°D12 | 9) (46 | 23 궁 53 | 5°R26 | T 1 |
| F 2 | 8 49 21 | 13°27'12 | 22°49 | 29° 5 | 13 ≈ 48 | 8°20 | 6°40 | 29°23 | 27819 | 13°55 | 26923 | 8) 13 | 9°42 | 24° 0 | 5 Ⅱ 25 | F 2 |
| S 3 | 8 53 18 | 14°28'00 | 5 Υ 10 | 0) (40 | 13°11 | 9° 5 | 6°51 | 29°27 | 27°19 | 13°57 | 26°21 | 8°15 | 9°39 | 24° 6 | 5°24 | S 3 |
| S 4 | 8 57 14 | 15°28'46 | 17°45 | 2°11 | 12°34 | 9°49 | 7° 3 | 29°30 | 27°D19 | 13°59 | 26°20 | 8°16 | 9°36 | 24°13 | 5°24 | S 4 |
| M 5 | 9 1 11 | 16°29'30 | 0 8 37 | 3°39 | 11°57 | 10°34 | 7°14 | 29°33 | 27°19 | 14° 1 | 26°19 | 8°18 | 9°33 | 24°20 | 5°23 | M 5 |
| T 6 | 9 5 7 | 17°30'13 | 13°49 | 5° 2 | 11°21 | 11°19 | 7°26 | 29°36 | 27°19 | 14° 3 | 26°18 | 8°R18 | 9°30 | 24°26 | 5°23 | T 6 |
| W 7 | 9 9 4 | 18°30'54 | 27°24 | 6°21 | 10°47 | 12° 3 | 7°38 | 29°39 | 27°20 | 14° 5 | 26°16 | 8°18 | 9°27 | 24°33 | 5°23 | W 7 |
| T 8 | 9 13 0 | 19°31'34 | 11 Ⅲ 24 | 7°33 | 10°13 | 12°48 | 7°50 | 29°42 | 27°20 | 14° 7 | 26°15 | 8°17 | 9°23 | 24°40 | 5°22 | T 8 |
| F 9 | 9 16 57 | 20°32'12 | 25°47 | 8°40 | 9°41 | 13°33 | 8° 2 | 29°45 | 27°20 | 14° 9 | 26°14 | 8°15 | 9°20 | 24°46 | 5°22 | F 9 |
| S 10 | 9 20 54 | 21°32'48 | 10931 | 9°39 | 9°10 | 14°17 | 8°14 | 29°48 | 27°20 | 14°12 | 26°13 | 8°13 | 9°17 | 24°53 | 5°D22 | S 10 |
| S 11 | 9 24 50 | 22°33'23 | 25°31 | 10°30 | 8°42 | 15° 2 | 8°26 | 29°51 | 27°21 | 14°14 | 26°11 | 8°11 | 9°14 | 25° 0 | 5°22 | S 11 |
| M12 | 9 28 47 | 23°33'55 | 10 Ω 37 | 11°12 | 8°15 | 15°47 | 8°38 | 29°53 | 27°21 | 14°16 | 26°10 | 8° 9 | 9°11 | 25° 6 | 5°22 | M12 |
| T 13 | 9 32 43 | 24°34'27 | 25°42 | 11°46 | 7°50 | 16°32 | 8°51 | 29°56 | 27°22 | 14°18 | 26° 9 | 8° 8 | 9° 7 | 25°13 | 5°22 | T 13 |
| W14 | 9 36 40 | 25°34'56 | 10 m /36 | 12°10 | 7°28 | 17°17 | 9° 3 | 29°58 | 27°22 | 14°20 | 26° 8 | 8°D 8 | 9° 4 | 25°20 | 5°23 | W14 |
| T 15 | 9 40 36 | 26°35'24 | 25°10 | 12°24 | 7° 7 | 18° 2 | 9°15 | 0 , ₹0 | 27°23 | 14°22 | 26° 7 | 8° 8 | 9° 1 | 25°26 | 5°23 | T 15 |
| F 16 | 9 44 33 | 27°35'51 | 9 ₽ 21 | 12°R28 | 6°49 | 18°47 | 9°28 | 0° 3 | 27°23 | 14°25 | 26° 6 | 8° 9 | 8°58 | 25°33 | 5°23 | F 16 |
| S 17 | 9 48 29 | 28°36'16 | 23° 5 | 12°21 | 6°34 | 19°32 | 9°41 | 0° 5 | 27°24 | 14°27 | 26° 5 | 8°10 | 8°55 | 25°40 | 5°24 | S 17 |
| S 18 | 9 52 26 | 29°36'40 | 6M23 | 12° 5 | 6°21 | 20°17 | 9°53 | 0° 7 | 27°25 | 14°29 | 26° 4 | 8°11 | 8°52 | 25°46 | 5°24 | S 18 |
| M19 | 9 56 23 | 0) €37'02 | 19°16 | 11°39 | 6°11 | 21° 2 | 10° 6 | 0° 9 | 27°25 | 14°31 | 26° 2 | 8°12 | 8°48 | 25°53 | 5°25 | M19 |
| T 20 | 10 0 19 | 1°37'23 | 1 √ 147 | 11° 4 | 6° 3 | 21°47 | 10°19 | 0°10 | 27°26 | 14°33 | 26° 1 | 8°R12 | 8°45 | 26° 0 | 5°26 | T 20 |
| W21 | 10 4 16 | 2°37'43 | 14° 2 | 10°22 | 5°57 | 22°32 | 10°32 | 0°12 | 27°27 | 14°36 | 26° 0 | 8°12 | 8°42 | 26° 7 | 5°26 | W21 |
| T 22 | 10 8 12 | 3°38'01 | 26° 3 | 9°32 | 5°54 | 23°17 | 10°45 | 0°14 | 27°28 | 14°38 | 25°59 | 8°11 | 8°39 | 26°13 | 5°27 | T 22 |
| F 23 | 10 12 9 | 4°38'18 | 7 궁 57 | 8°37 | 5°D54 | 24° 2 | 10°58 | 0°15 | 27°29 | 14°40 | 25°58 | 8°11 | 8°36 | 26°20 | 5°28 | F 23 |
| S 24 | 10 16 5 | 5°38'33 | 19°46 | 7°38 | 5°56 | 24°47 | 11°11 | 0°17 | 27°30 | 14°42 | 25°57 | 8°10 | 8°33 | 26°27 | 5°29 | S 24 |
| S 25 | 10 20 2 | 6°38'47 | 1≈35 | 6°36 | 6° 0 | 25°33 | 11°24 | 0°18 | 27°31 | 14°45 | 25°56 | 8°10 | 8°29 | 26°33 | 5°30 | S 25 |
| M26 | 10 23 58 | 7°38'59 | 13°27 | 5°33 | 6° 6 | 26°18 | 11°37 | 0°19 | 27°32 | 14°47 | 25°55 | 8°10 | 8°26 | 26°40 | 5°31 | M26 |
| T 27 | 10 27 55 | 8°39'09 | 25°24 | 4°31 | 6°15 | 27° 3 | 11°51 | 0°20 | 27°34 | 14°49 | 25°54 | 8°D10 | 8°23 | 26°47 | 5°33 | T 27 |
| W28 | 10 31 52 | 9 米 39'17 | 7 ∺ 29 | 3) €30 | 6≈26 | 27 る 48 | 12 ° 4 | 0 √ 21 | 27 8 35 | 14) 52 | 25953 | 8°R10 | 8 ∺ 20 | 26 궁 53 | 5 Ⅲ 34 | W28 |

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| T 1 | 10 35 48 | 10) 39'24 | 19) (44 | 2°R32 | 6≈39 | 28 궁 34 | 12 Υ 17 | 0 才 22 | 27 8 36 | 14) (54 | 25°R53 | 8°R10 | 8) 17 | 27る 0 | 5 ∏ 35 | T 1 |
| F 2 | 10 39 45 | 11°39'28 | 2 Υ 10 | 1 ∺ 39 | 6°55 | 29°19 | 12°31 | 0°23 | 27°38 | 14°56 | 25952 | 8) 10 | 8°13 | 27° 7 | 5°37 | F 2 |
| S 3 | 10 43 41 | 12°39'31 | 14°47 | 0°50 | 7°12 | 0≈ 4 | 12°44 | 0°24 | 27°39 | 14°58 | 25°51 | 8° 9 | 8°10 | 27°13 | 5°38 | S 3 |
| S 4 | 10 47 38 | 13°39'31 | 27°38 | 0° 7 | 7°31 | 0°50 | 12°58 | 0°24 | 27°40 | 15° 1 | 25°50 | 8° 9 | 8° 7 | 27°20 | 5°40 | S 4 |
| M 5 | 10 51 34 | 14°39'30 | 10844 | 29≈31 | 7°52 | 1°35 | 13°11 | 0°25 | 27°42 | 15° 3 | 25°49 | 8° 8 | 8° 4 | 27°27 | 5°42 | M 5 |
| T 6 | 10 55 31 | 15°39'26 | 24° 4 | 29° 0 | 8°15 | 2°21 | 13°25 | 0°25 | 27°43 | 15° 5 | 25°48 | 8° 7 | 8° 1 | 27°33 | 5°43 | T 6 |
| W 7 | 10 59 27 | 16°39'21 | 7 Ⅱ 41 | 28°36 | 8°39 | 3° 6 | 13°39 | 0°26 | 27°45 | 15° 7 | 25°48 | 8° 7 | 7°58 | 27°40 | 5°45 | W 7 |
| T 8 | 11 3 24 | 17°39'13 | 21°34 | 28°19 | 9° 6 | 3°52 | 13°52 | 0°26 | 27°47 | 15°10 | 25°47 | 8°D 7 | 7°54 | 27°47 | 5°47 | T 8 |
| F 9 | 11 721 | 18°39'02 | 59543 | 28° 8 | 9°34 | 4°37 | 14° 6 | 0°26 | 27°48 | 15°12 | 25°46 | 8° 7 | 7°51 | 27°53 | 5°49 | F 9 |
| S 10 | 11 11 17 | 19°38'50 | 20° 6 | 28°D 4 | 10° 3 | 5°22 | 14°20 | 0°R26 | 27°50 | 15°14 | 25°45 | 8° 8 | 7°48 | 28° 0 | 5°51 | S 10 |
| S 11 | 11 15 14 | 20°38'35 | 4 Ω 40 | 28° 6 | 10°34 | 6° 8 | 14°34 | 0°26 | 27°52 | 15°17 | 25°45 | 8° 9 | 7°45 | 28° 7 | 5°53 | S 11 |
| M12 | 11 19 10 | 21°38'18 | 19°21 | 28°13 | 11° 7 | 6°53 | 14°48 | 0°26 | 27°54 | 15°19 | 25°44 | 8°10 | 7°42 | 28°13 | 5°55 | M12 |
| T 13 | 11 23 7 | 22°37'58 | 4Mm, 3 | 28°26 | 11°40 | 7°39 | 15° 2 | 0°25 | 27°55 | 15°21 | 25°43 | 8°R10 | 7°39 | 28°20 | 5°58 | T 13 |
| W14 | 11 27 3 | 23°37'37 | 18°39 | 28°45 | 12°16 | 8°25 | 15°16 | 0°25 | 27°57 | 15°23 | 25°43 | 8°10 | 7°35 | 28°27 | 6° 0 | W14 |
| T 15 | 11 31 0 | 24°37'13 | 3 º 4 | 29° 9 | 12°52 | 9°10 | 15°30 | 0°24 | 27°59 | 15°26 | 25°42 | 8° 9 | 7°32 | 28°33 | 6° 2 | T 15 |
| F 16 | 11 34 56 | 25°36'48 | 17°10 | 29°37 | 13°30 | 9°56 | 15°44 | 0°24 | 28° 1 | 15°28 | 25°42 | 8° 7 | 7°29 | 28°40 | 6° 5 | F 16 |
| S 17 | 11 38 53 | 26°36'20 | 0 M .56 | 0 ∺ 10 | 14° 9 | 10°41 | 15°58 | 0°23 | 28° 3 | 15°30 | 25°41 | 8° 5 | 7°26 | 28°47 | 6° 7 | S 17 |
| S 18 | 11 42 50 | 27°35'51 | 14°18 | 0°47 | 14°49 | 11°27 | 16°12 | 0°22 | 28° 5 | 15°32 | 25°40 | 8° 2 | 7°23 | 28°53 | 6°10 | S 18 |
| M19 | 11 46 46 | 28°35'20 | 27°16 | 1°28 | 15°30 | 12°13 | 16°26 | 0°21 | 28° 8 | 15°35 | 25°40 | 7°59 | 7°19 | 29° 0 | 6°12 | M19 |
| T 20 | 11 50 43 | 29°34'47 | 9 ∡ 752 | 2°13 | 16°12 | 12°58 | 16°40 | 0°20 | 28°10 | 15°37 | 25°39 | 7°57 | 7°16 | 29° 7 | 6°15 | T 20 |
| W21 | 11 54 39 | 0 Υ 34'13 | 22°10 | 3° 1 | 16°56 | 13°44 | 16°54 | 0°19 | 28°12 | 15°39 | 25°39 | 7°56 | 7°13 | 29°13 | 6°18 | W21 |
| T 22 | 11 58 36 | 1°33'36 | 4 ਰ 14 | 3°53 | 17°40 | 14°30 | 17° 9 | 0°18 | 28°14 | 15°41 | 25°39 | 7°D55 | 7°10 | 29°20 | 6°21 | T 22 |
| F 23 | 12 2 32 | 2°32'58 | 16° 8 | 4°47 | 18°25 | 15°15 | 17°23 | 0°17 | 28°16 | 15°43 | 25°38 | 7°56 | 7° 7 | 29°27 | 6°23 | F 23 |
| S 24 | 12 6 29 | 3°32'18 | 27°58 | 5°45 | 19°11 | 16° 1 | 17°37 | 0°15 | 28°19 | 15°46 | 25°38 | 7°57 | 7° 4 | 29°34 | 6°26 | S 24 |
| S 25 | 12 10 25 | 4°31'36 | 9 ≈ 47 | 6°46 | 19°58 | 16°47 | 17°51 | 0°14 | 28°21 | 15°48 | 25°37 | 7°59 | 7° 0 | 29°40 | 6°29 | S 25 |
| M26 | 12 14 22 | 5°30'53 | 21°42 | 7°49 | 20°46 | 17°32 | 18° 6 | 0°12 | 28°23 | 15°50 | 25°37 | 8° 1 | 6°57 | 29°47 | 6°33 | M26 |
| T 27 | 12 18 19 | 6°30'07 | 3) (45 | 8°54 | 21°34 | 18°18 | 18°20 | 0°11 | 28°26 | 15°52 | 25°37 | 8°R 2 | 6°54 | 29°54 | 6°36 | T 27 |
| W28 | 12 22 15 | 7°29'20 | 15°59 | 10° 2 | 22°24 | 19° 4 | 18°34 | 0° 9 | 28°28 | 15°54 | 25°36 | 8° 2 | 6°51 | 0≈ 0 | 6°39 | W28 |
| T 29 | 12 26 12 | 8°28'30 | 28°28 | 11°12 | 23°14 | 19°50 | 18°49 | 0° 7 | 28°31 | 15°56 | 25°36 | 8° 0 | 6°48 | 0° 7 | 6°42 | T 29 |
| F 30 | 12 30 8 | 9°27'39 | 11 Y 12 | 12°25 | 24° 5 | 20°35 | 19° 3 | 0° 5 | 28°33 | 15°59 | 25°36 | 7°57 | 6°44 | 0°14 | 6°45 | F 30 |
| S 31 | 12 34 5 | 10 Y 26'45 | 24 Y 12 | 13 米 39 | 24≈56 | 21 ≈ 21 | 19 Ƴ 17 | 0 ≯ 3 | 28 8 36 | 16 米 1 | 25936 | 7 ∺ 52 | 6) (41 | 0≈20 | 6 Ⅱ 49 | S 31 |

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Greg. Calendar

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|------|----------|-------------------|----------------|------------------|----------------|-----------------|----------------|----------------|----------------|----------------|--------|---------------|---------------|------|----------------|------|
| S 1 | 12 38 1 | 11 Y 25'50 | 7 8 26 | 14) (56 | 25≈48 | 22≈ 7 | 19 Y 32 | 0°R 1 | 28 8 39 | 16 ¥ 3 | 25°R36 | 7°R47 | 6 ∺ 38 | 0≈27 | 6 II 52 | S 1 |
| M 2 | 12 41 58 | 12°24'52 | 20°55 | 16°15 | 26°41 | 22°53 | 19°46 | 29M59 | 28°41 | 16° 5 | 25935 | 7 ∺ 41 | 6°35 | 0°34 | 6°56 | M 2 |
| T 3 | 12 45 54 | 13°23'52 | 4 Ⅱ 35 | 17°35 | 27°34 | 23°38 | 20° 1 | 29°56 | 28°44 | 16° 7 | 25°35 | 7°36 | 6°32 | 0°40 | 6°59 | T 3 |
| W 4 | 12 49 51 | 14°22'50 | 18°25 | 18°57 | 28°28 | 24°24 | 20°15 | 29°54 | 28°47 | 16° 9 | 25°35 | 7°32 | 6°29 | 0°47 | 7° 3 | W 4 |
| T 5 | 12 53 47 | 15°21'46 | 29524 | 20°21 | 29°22 | 25°10 | 20°30 | 29°52 | 28°49 | 16°11 | 25°35 | 7°30 | 6°25 | 0°54 | 7° 6 | T 5 |
| F 6 | 12 57 44 | 16°20'39 | 16°29 | 21°47 | 0 ∺ 17 | 25°56 | 20°44 | 29°49 | 28°52 | 16°13 | 25°35 | 7°D29 | 6°22 | 1° 0 | 7°10 | F 6 |
| S 7 | 13 141 | 17°19'30 | 0 Ω 40 | 23°15 | 1°13 | 26°42 | 20°58 | 29°46 | 28°55 | 16°15 | 25°35 | 7°30 | 6°19 | 1° 7 | 7°14 | S 7 |
| S 8 | 13 5 37 | 18°18'19 | 14°54 | 24°44 | 2° 9 | 27°27 | 21°13 | 29°44 | 28°58 | 16°17 | 25°D35 | 7°31 | 6°16 | 1°14 | 7°17 | S 8 |
| M 9 | 13 9 34 | 19°17'05 | 29° 9 | 26°15 | 3° 5 | 28°13 | 21°27 | 29°41 | 29° 1 | 16°19 | 25°35 | 7°32 | 6°13 | 1°20 | 7°21 | M 9 |
| T 10 | 13 13 30 | 20°15'49 | 13 m 23 | 27°48 | 4° 2 | 28°59 | 21°42 | 29°38 | 29° 4 | 16°21 | 25°35 | 7°R32 | 6°10 | 1°27 | 7°25 | T 10 |
| W11 | 13 17 27 | 21°14'30 | 27°33 | 29°22 | 5° 0 | 29°45 | 21°56 | 29°35 | 29° 7 | 16°23 | 25°35 | 7°31 | 6° 6 | 1°34 | 7°29 | W11 |
| T 12 | 13 21 23 | 22°13'10 | 11 ≏ 35 | 0 Υ 58 | 5°57 | 0 ∺ 30 | 22°11 | 29°32 | 29° 9 | 16°25 | 25°35 | 7°27 | 6° 3 | 1°40 | 7°33 | T 12 |
| F 13 | 13 25 20 | 23°11'48 | 25°24 | 2°36 | 6°56 | 1°16 | 22°25 | 29°29 | 29°12 | 16°27 | 25°35 | 7°21 | 6° 0 | 1°47 | 7°37 | F 13 |
| S 14 | 13 29 16 | 24°10'23 | 8 M 57 | 4°15 | 7°54 | 2° 2 | 22°40 | 29°26 | 29°15 | 16°29 | 25°35 | 7°14 | 5°57 | 1°54 | 7°41 | S 14 |
| S 15 | 13 33 13 | 25° 8'57 | 22°12 | 5°56 | 8°53 | 2°48 | 22°54 | 29°23 | 29°19 | 16°31 | 25°36 | 7° 5 | 5°54 | 2° 0 | 7°45 | S 15 |
| M16 | 13 37 10 | 26° 7'30 | 5 ₹ 8 | 7°38 | 9°53 | 3°33 | 23° 8 | 29°19 | 29°22 | 16°33 | 25°36 | 6°57 | 5°50 | 2° 7 | 7°49 | M16 |
| T 17 | 13 41 6 | 27° 6'00 | 17°44 | 9°22 | 10°52 | 4°19 | 23°23 | 29°16 | 29°25 | 16°34 | 25°36 | 6°50 | 5°47 | 2°14 | 7°54 | T 17 |
| W18 | 13 45 3 | 28° 4'29 | 0중 2 | 11° 8 | 11°53 | 5° 5 | 23°37 | 29°12 | 29°28 | 16°36 | 25°36 | 6°44 | 5°44 | 2°20 | 7°58 | W18 |
| T 19 | 13 48 59 | 29° 2'56 | 12° 7 | 12°56 | 12°53 | 5°51 | 23°52 | 29° 9 | 29°31 | 16°38 | 25°37 | 6°40 | 5°41 | 2°27 | 8° 2 | T 19 |
| F 20 | 13 52 56 | 0 8 1'21 | 24° 2 | 14°45 | 13°54 | 6°36 | 24° 6 | 29° 5 | 29°34 | 16°40 | 25°37 | 6°39 | 5°38 | 2°34 | 8° 6 | F 20 |
| S 21 | 13 56 52 | 0°59'45 | 5≈52 | 16°36 | 14°55 | 7°22 | 24°21 | 29° 2 | 29°37 | 16°42 | 25°37 | 6°D39 | 5°35 | 2°40 | 8°11 | S 21 |
| S 22 | 14 0 49 | 1°58'08 | 17°42 | 18°29 | 15°56 | 8° 8 | 24°35 | 28°58 | 29°40 | 16°43 | 25°38 | 6°39 | 5°31 | 2°47 | 8°15 | S 22 |
| M23 | 14 4 45 | 2°56'28 | 29°38 | 20°23 | 16°58 | 8°53 | 24°49 | 28°54 | 29°44 | 16°45 | 25°38 | 6°40 | 5°28 | 2°54 | 8°20 | M23 |
| T 24 | 14 8 42 | 3°54'47 | 11 米 45 | 22°19 | 18° 0 | 9°39 | 25° 4 | 28°51 | 29°47 | 16°47 | 25°38 | 6°R40 | 5°25 | 3° 0 | 8°24 | T 24 |
| W25 | 14 12 39 | 4°53'05 | 24° 6 | 24°16 | 19° 2 | 10°25 | 25°18 | 28°47 | 29°50 | 16°49 | 25°39 | 6°39 | 5°22 | 3° 7 | 8°28 | W25 |
| T 26 | 14 16 35 | 5°51'20 | 6 Ƴ 45 | 26°16 | 20° 5 | 11°10 | 25°32 | 28°43 | 29°53 | 16°50 | 25°39 | 6°35 | 5°19 | 3°14 | 8°33 | T 26 |
| F 27 | 14 20 32 | 6°49'34 | 19°45 | 28°17 | 21° 8 | 11°56 | 25°47 | 28°39 | 29°57 | 16°52 | 25°40 | 6°29 | 5°16 | 3°20 | 8°38 | F 27 |
| S 28 | 14 24 28 | 7°47'47 | 3 8 5 | 0 8 19 | 22°11 | 12°42 | 26° 1 | 28°35 | 29°59 | 16°53 | 25°40 | 6°20 | 5°12 | 3°27 | 8°42 | S 28 |
| S 29 | 14 28 25 | 8°45'58 | 16°44 | 2°23 | 23°14 | 13°27 | 26°15 | 28°31 | 0 I I 3 | 16°55 | 25°41 | 6°10 | 5° 9 | 3°34 | 8°47 | S 29 |
| M30 | 14 32 21 | 9 8 44'07 | 0Д40 | 4 8 28 | 24) 17 | 14) €13 | 26 Y 29 | 28 M 27 | 0耳 7 | 16 ∺ 57 | 259541 | 6 光 0 | 5 米 6 | 3≈40 | 8 Ⅱ 51 | M30 |

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| T 1 | 14 36 18 | 10842'15 | 14 Ⅱ 46 | 6 8 35 | 25 米 21 | 14) 58 | 26 Ƴ 44 | 28°R23 | 0 Ⅱ 10 | 16 ¥ 58 | 259642 | 5°R50 | 5 ∺ 3 | 3≈47 | 8 II 56 | T 1 |
| W 2 | 14 40 14 | 11°40'20 | 29° 0 | 8°43 | 26°25 | 15°44 | 26°58 | 28 M .18 | 0°13 | 17° 0 | 25°42 | 5 ₩43 | 5° 0 | 3°54 | 9° 1 | W 2 |
| T 3 | 14 44 11 | 12°38'24 | 139515 | 10°51 | 27°29 | 16°29 | 27°12 | 28°14 | 0°17 | 17° 1 | 25°43 | 5°37 | 4°56 | 4° 0 | 9° 6 | T 3 |
| F 4 S 5 | 14 48 8 | 13°36'26 14°34'26 | 27°29 | 13° 1 15°11 | 28°34 29°38 | 17°15 18° 0 | 27°26 27°40 | 28°10 28° 6 | 0°20 0°24 | 17° 3 17° 4 | 25°44 | 5°34 5°D33 | 4°53 4°50 | 4° 7 4°14 | 9°10 9°15 | F 4 S 5 |
| | 14 52 4 | | 11 Ω 40 | | | | | | - | | 25°44 | | | | | |
| S 6 | 14 56 1 | 15°32'23 | 25°45 | 17°22 | 0 Υ 43 | 18°46 | 27°54 | 28° 1 | 0°27 | 17° 5 | 25°45 | 5°33 | 4°47 | 4°20 | 9°20 | S 6 |
| M 7 | 14 59 57 | 16°30'19 | 9 m 44 | 19°33 | 1°48 | 19°31 | 28° 9 | 27°57 | 0°30 | 17° 7 | 25°46 | 5°R33 | 4°44 | 4°27 | 9°25 | M 7 |
| T 8 | 15 3 54 | 17°28'13 | 23°36 | 21°43 | 2°53 | 20°17 | 28°23 | 27°53 | 0°34 | 17° 8 | 25°46 | 5°32 | 4°41 | 4°34 | 9°30 | T 8 |
| W 9 T 10 | 15 7 50 15 11 47 | 18°26'06 19°23'56 | 7 ≙ 21 20°57 | 23°53 26° 3 | 3°58 5° 4 | 21° 2 21°47 | 28°37 28°50 | 27°48 27°44 | 0°37 0°41 | 17° 9 17°11 | 25°47 25°48 | 5°29 5°23 | 4°37 4°34 | 4°40 4°47 | 9°35 9°40 | W 9 T 10 |
| F 11 | 15 15 43 | 20°21'45 | 4ML22 | 28°11 | 6° 9 | 21°47 22°33 | 28° 4 | 27°40 | 0°44 | 17°12 | 25°49 | 5°14 | 4°31 | 4°54 | 9°45 | F 11 |
| S 12 | 15 19 40 | 21°19'33 | 17°35 | 0 Ⅱ 18 | 7°15 | 23°18 | 29°18 | 27°35 | 0°48 | 17°13 | 25°50 | 5° 3 | 4°28 | 5° 0 | 9°50 | S 12 |
| | | | | | | | | | | | | | - | | | |
| S 13 M14 | 15 23 37 15 27 33 | 22°17'19 23°15'04 | 0 ∡ ³34 13°18 | 2°24 4°27 | 8°21 9°27 | 24° 3 24°48 | 29°32 29°46 | 27°31 27°26 | 0°51 0°55 | 17°14 17°16 | 25°50 25°51 | 4°50 4°38 | 4°25 4°22 | 5° 7 5°14 | 9°54 10° 0 | S 13 M14 |
| T 15 | 15 27 33 | 23 13 04 24°12'47 | 25°47 | 6°29 | 10°33 | 24 48 25°33 | 29°59 | 27°22 | 0°58 | 17 16 17°17 | 25°52 | 4°26 | 4°18 | 5°20 | 10° 5 | T 15 |
| W16 | 15 35 26 | 25°10'29 | 23 ¶ 7 | 8°29 | 11°40 | 26°19 | 0814 | 27°17 | 1° 2 | 17°18 | 25°53 | 4°17 | 4°15 | 5°27 | 10°10 | W16 |
| T 17 | 15 39 23 | 26° 8'10 | 20° 3 | 10°26 | 12°46 | 27° 4 | 0°27 | 27°13 | 1° 5 | 17°19 | 25°54 | 4°10 | 4°12 | 5°34 | 10°15 | T 17 |
| F 18 | 15 43 19 | 27° 5'50 | 1≈57 | 12°21 | 13°53 | 27°49 | 0°41 | 27° 8 | 1° 9 | 17°20 | 25°55 | 4° 5 | 4° 9 | 5°40 | 10°20 | F 18 |
| S 19 | 15 47 16 | 28° 3'29 | 13°46 | 14°13 | 15° 0 | 28°34 | 0°54 | 27° 4 | 1°12 | 17°21 | 25°56 | 4° 3 | 4° 6 | 5°47 | 10°25 | S 19 |
| S 20 | 15 51 13 | 29° 1'07 | 25°36 | 16° 2 | 16° 7 | 29°19 | 1° 8 | 27° 0 | 1°16 | 17°22 | 25°57 | 4° 3 | 4° 2 | 5°54 | 10°30 | S 20 |
| M21 | 15 55 9 | 29°58'44 | 7 ₩32 | 17°49 | 17°14 | 0° 4 | 1°22 | 26°55 | 1°19 | 17°23 | 25°58 | 4° 3 | 3°59 | 6° 0 | 10°35 | M21 |
| T 22 | 15 59 6 | 0Д56'20 | 19°39 | 19°33 | 18°21 | 0°49 | 1°35 | 26°51 | 1°23 | 17°24 | 25°59 | 4° 2 | 3°56 | 6° 7 | 10°40 | T 22 |
| W23 | 16 3 2 | 1°53'55 | 2 Υ 2 | 21°14 | 19°28 | 1°34 | 1°48 | 26°46 | 1°26 | 17°25 | 26° 0 | 4° 0 | 3°53 | 6°14 | 10°45 | W23 |
| T 24 | 16 6 59 | 2°51'29 | 14°47 | 22°52 | 20°36 | 2°18 | 2° 2 | 26°42 | 1°30 | 17°26 | 26° 1 | 3°56 | 3°50 | 6°20 | 10°50 | T 24 |
| F 25 | 16 10 55 | 3°49'02 | 27°55 | 24°26 | 21°43 | 3° 3 | 2°15 | 26°37 | 1°33 | 17°27 | 26° 2 | 3°49 | 3°47 | 6°27 | 10°56 | F 25 |
| S 26 | 16 14 52 | 4°46'34 | 11829 | 25°58 | 22°51 | 3°48 | 2°28 | 26°33 | 1°37 | 17°28 | 26° 3 | 3°39 | 3°43 | 6°34 | 11° 1 | S 26 |
| S 27 | 16 18 48 | 5°44'05 | 25°26 | 27°27 | 23°59 | 4°33 | 2°42 | 26°28 | 1°40 | 17°28 | 26° 5 | 3°28 | 3°40 | 6°40 | 11° 6 | S 27 |
| M28 | 16 22 45 | 6°41'36 | 9 Ⅱ 44 | 28°53 | 25° 7 | 5°17 | 2°55 | 26°24 | 1°44 | 17°29 | 26° 6 | 3°17 | 3°37 | 6°47 | 11°11 | M28 |
| T 29 | 16 26 42 | 7°39'05 | 24°16 | 09্হ15 | 26°15 | 6° 2 | 3° 8 | 26°20 | 1°47 | 17°30 | 26° 7 | 3° 6 | 3°34 | 6°54 | 11°16 | T 29 |
| W30 | 16 30 38 | 8°36'33 | 8955 | 1°35 | 27°23 | 6°47 | 3°21 | 26°15 | 1°51 | 17°31 | 26° 8 | 2°56 | 3°31 | 7° 0 | 11°21 | W30 |
| T 31 | 16 34 35 | 9∏34'01 | 23934 | 2951 | 28 Y 31 | 7 Υ 31 | 3 8 34 | 26 M 11 | 1∏54 | 17) (31 | 2695 9 | 2) 50 | 3 ∺ 28 | 7 ≈ 7 | 11 Ⅱ 27 | T 31 |

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| F 1 | 16 38 31 | 10 Ⅲ 31'27 | 8 N 6 | 499 4 | 29 Y 39 | 8 Υ 16 | 3 8 47 | 26°R 7 | 1 II 58 | 17) 32 | 26911 | 2°R46 | 3 ∺ 24 | 7≈14 | 11 II 32 | F 1 |
| S 2 | 16 42 28 | 11°28'51 | 22°28 | 5°13 | 0 8 48 | 9° 0 | 4° 0 | 26M 3 | 2° 1 | 17°32 | 26°12 | 2) 44 | 3°21 | 7°20 | 11°37 | S 2 |
| S 3 | 16 46 24 | 12°26'15 | 6 m 36 | 6°20 | 1°56 | 9°44 | 4°13 | 25°58 | 2° 5 | 17°33 | 26°13 | 2°44 | 3°18 | 7°27 | 11°42 | S 3 |
| M 4 | 16 50 21 | 13°23'37 | 20°30 | 7°22 | 3° 5 | 10°29 | 4°25 | 25°54 | 2° 8 | 17°34 | 26°14 | 2°44 | 3°15 | 7°34 | 11°47 | M 4 |
| T 5 W 6 | 16 54 17 16 58 14 | 14°20'59 15°18'19 | 4 Ω 11 17°39 | 8°22 9°17 | 4°13 5°22 | 11°13 11°57 | 4°38 4°51 | 25°50 25°46 | 2°12 2°15 | 17°34 17°35 | 26°16 26°17 | 2°43 2°40 | 3°12 3° 8 | 7°40 7°47 | 11°53 11°58 | T 5 W 6 |
| T 7 | 17 2 11 | 16°15'38 | 0ML54 | 10° 9 | 6°31 | 12°41 | 5° 3 | 25°42 | 2°19 | 17°35 | 26°18 | 2°34 | 3° 5 | 7°53 | 12° 3 | T 7 |
| F 8 | 17 6 7 | 17°12'56 | 13°58 | 10°58 | 7°40 | 13°25 | 5°16 | 25°38 | 2°22 | 17°35 | 26°20 | 2°25 | 3° 2 | 8° 0 | 12° 8 | F 8 |
| S 9 | 17 10 4 | 18°10'14 | 26°50 | 11°42 | 8°49 | 14° 9 | 5°28 | 25°34 | 2°26 | 17°36 | 26°21 | 2°14 | 2°59 | 8° 7 | 12°13 | S 9 |
| S 10 | 17 14 0 | 19° 7'31 | 9 ∡ 130 | 12°22 | 9°58 | 14°53 | 5°40 | 25°30 | 2°29 | 17°36 | 26°22 | 2° 2 | 2°56 | 8°13 | 12°19 | S 10 |
| M11 | 17 17 57 | 20° 4'47 | 21°58 | 12°58 | 11° 7 | 15°37 | 5°52 | 25°26 | 2°32 | 17°36 | 26°24 | 1°50 | 2°53 | 8°20 | 12°24 | M11 |
| T 12 | 17 21 53 | 21° 2'02 | 4 궁 15 | 13°31 | 12°16 | 16°21 | 6° 5 | 25°22 | 2°36 | 17°37 | 26°25 | 1°39 | 2°49 | 8°27 | 12°29 | T 12 |
| W13 | 17 25 50 | 21°59'17 | 16°21 | 13°58 | 13°26 | 17° 4 | 6°17 | 25°19 | 2°39 | 17°37 | 26°27 | 1°29 | 2°46 | 8°33 | 12°34 | W13 |
| T 14 F 15 | 17 29 46 17 33 43 | 22°56'32 23°53'46 | 28°18 | 14°22 14°41 | 14°35 15°44 | 17°48 18°32 | 6°29 6°41 | 25°15 25°11 | 2°43 2°46 | 17°37 17°37 | 26°28 26°29 | 1°22 1°18 | 2°43 2°40 | 8°40 8°47 | 12°39 12°44 | T 14 F 15 |
| S 16 | 17 33 43 | 23°53°46 24°51'00 | 10 ≈ 8 21°56 | 14°41 14°56 | 16°54 | 18°32 19°15 | 6°53 | 25° 8 | 2°49 | 17°37 | 26°29 26°31 | 1°18 | 2°37 | 8°53 | 12°44 12°50 | S 16 |
| | | | | | | | | | | | | _ | | 9° 0 | | |
| S 17 M18 | 17 41 36 17 45 33 | 25°48'14 26°45'27 | 3) €45 15°40 | 15° 6 15°11 | 18° 4 19°13 | 19°59 20°42 | 7° 4 7°16 | 25° 4 25° 1 | 2°53 2°56 | 17°38 17°38 | 26°32 26°34 | 1°D15 1°15 | 2°34 2°30 | 9° 0 9° 7 | 12°55 13° 0 | S 17 M18 |
| T 19 | 17 49 29 | 20°43'27 27°42'41 | 27°46 | 15°R12 | 20°23 | 20°42 21°25 | 7°28 | 24°57 | 2°59 | 17°38 | 26°35 | 1°R16 | 2°27 | 9°13 | 13° 5 | T 19 |
| W20 | 17 53 26 | 28°39'54 | 10 Υ 9 | 15° 8 | 21°33 | 22° 9 | 7°39 | 24°54 | 3° 2 | 17°R38 | 26°37 | 1°15 | 2°24 | 9°20 | 13°10 | W20 |
| T 21 | 17 57 22 | 29°37'07 | 22°53 | 15° 0 | 22°43 | 22°52 | 7°51 | 24°51 | 3° 6 | 17°38 | 26°38 | 1°13 | 2°21 | 9°27 | 13°15 | T 21 |
| F 22 | 18 1 19 | 0934'20 | 6 8 2 | 14°48 | 23°53 | 23°35 | 8° 2 | 24°47 | 3° 9 | 17°38 | 26°40 | 1°8 | 2°18 | 9°33 | 13°20 | F 22 |
| S 23 | 18 5 15 | 1°31'34 | 19°40 | 14°31 | 25° 3 | 24°18 | 8°13 | 24°44 | 3°12 | 17°38 | 26°41 | 1° 1 | 2°14 | 9°40 | 13°25 | S 23 |
| S 24 | 18 9 12 | 2°28'47 | 3 Ⅱ 45 | 14°11 | 26°13 | 25° 1 | 8°24 | 24°41 | 3°15 | 17°38 | 26°43 | 0°53 | 2°11 | 9°47 | 13°30 | S 24 |
| M25 | 18 13 9 | 3°26'00 | 18°14 | 13°46 | 27°23 | 25°44 | 8°35 | 24°38 | 3°18 | 17°37 | 26°45 | 0°44 | 2° 8 | 9°53 | 13°35 | M25 |
| T 26 | 18 17 5 | 4°23'14 | 395 2 | 13°19 | 28°33 | 26°27 | 8°46 | 24°35 | 3°22 | 17°37 | 26°46 | 0°36 | 2° 5 | 10° 0 | 13°40 | T 26 |
| W27 T 28 | 18 21 2 | 5°20'27 6°17'40 | 18° 1 | 12°48 12°15 | 29°44 0 ∏ 54 | 27° 9 27°52 | 8°57 9°8 | 24°33 | 3°25 3°28 | 17°37 17°37 | 26°48 26°49 | 0°29 0°24 | 2° 2 | 10° 7 | 13°45 13°50 | W27 T 28 |
| F 29 | 18 24 58 18 28 55 | 7°14'53 | 3 Ω 1 17°54 | 12°15 11°40 | 0 <u>щ</u> 54 2° 4 | 27°52 28°34 | 9° 8 9°19 | 24°30 24°27 | 3°28 3°31 | 17°37 17°37 | 26°49 26°51 | 0°24 0°22 | 1°59 1°55 | 10°13 10°20 | 13°50 13°55 | F 29 |
| S 30 | 18 32 51 | 8 9 12'05 | 2 m 33 | 1196 4 | 3 I I15 | $29^{\circ}17$ | 9829 | 24 27 24 ML 24 | 3 Ⅱ 34 | 17 X 36 | 26952 | 0°D21 | 1 X 52 | 10°20 10 ≈ 27 | 14 I I 0 | S 30 |
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| S 1 | 18 36 48 | 995 9'17 | 16 M 54 | 10°R27 | 4∏25 | 29 Y 59 | 9 8 40 | 24°R22 | 3 Ц 37 | 17°R36 | 26954 | 0 ∺ 22 | 1) (49 | 10≈33 | 14 Ⅱ 5 | S 1 |
| M 2 | 18 40 45 | 10° 6'29 | 0 ჲ 54 | 9950 | 5°36 | 0 8 41 | 9°50 | 24Ml19 | 3°40 | 17) 36 | 26°56 | 0°23 | 1°46 | 10°40 | 14°10 | M 2 |
| T 3 | 18 44 41 | 11° 3'41 | 14°34 | 9°13 | 6°47 | 1°23 | 10° 0 | 24°17 | 3°43 | 17°35 | 26°57 | 0°R23 | 1°43 | 10°47 | 14°15 | T 3 |
| W 4 | 18 48 38 | 12° 0'52 | 27°55 | 8°37 | 7°57 | 2° 5 | 10°10 | 24°15 | 3°46 | 17°35 | 26°59 | 0°22 | 1°40 | 10°53 | 14°20 | W 4 |
| T 5 | 18 52 34 | 12°58'04 | 10 M 59 | 8° 3 | 9° 8 | 2°47 | 10°20 | 24°13 | 3°49 | 17°34 | 27° 1 | 0°18 | 1°36 | 11° 0 | 14°24 | T 5 |
| F 6 | 18 56 31 | 13°55'15 | 23°48 | 7°32 | 10°19 | 3°29 | 10°30 | 24°10 | 3°52 | 17°34 | 27° 2 | 0°13 | 1°33 | 11° 7 | 14°29 | F 6 |
| S 7 | 19 0 27 | 14°52'27 | 6 ₹ 23 | 7° 3 | 11°30 | 4°11 | 10°40 | 24° 8 | 3°55 | 17°33 | 27° 4 | 0° 7 | 1°30 | 11°13 | 14°34 | S 7 |
| S 8 | 19 4 24 | 15°49'38 | 18°47 | 6°38 | 12°41 | 4°52 | 10°50 | 24° 7 | 3°57 | 17°33 | 27° 5 | 29≈59 | 1°27 | 11°20 | 14°38 | S 8 |
| M 9 | 19 8 20 | 16°46'50 | 1る 0 | 6°16 | 13°52 | 5°34 | 10°59 | 24° 5 | 4° 0 | 17°32 | 27° 7 | 29°51 | 1°24 | 11°27 | 14°43 | M 9 |
| T 10 | 19 12 17 | 17°44'02 | 13° 5 | 5°59 | 15° 3 | 6°15 | 11° 9 | 24° 3 | 4° 3 | 17°32 | 27° 9 | 29°44 | 1°20 | 11°33 | 14°48 | T 10 |
| W11 | 19 16 14 | 18°41'14 | 25° 2 | 5°47 | 16°14 | 6°57 | 11°18 | 24° 1 | 4° 6 | 17°31 | 27°10 | 29°38 | 1°17 | 11°40 | 14°52 | W11 |
| T 12 | 19 20 10 | 19°38'27 | 6≈53 | 5°40 | 17°25 | 7°38 | 11°27 | 24° 0 | 4° 9 | 17°30 | 27°12 | 29°34 | 1°14 | 11°46 | 14°57 | T 12 |
| F 13 | 19 24 7 | 20°35'40 | 18°41 | 5°D38 | 18°36 | 8°19 | 11°36 | 23°58 | 4°11 | 17°30 | 27°14 | 29°31 | 1°11 | 11°53 | 15° 2 | F 13 |
| S 14 | 19 28 3 | 21°32'53 | 0 ∺ 29 | 5°41 | 19°47 | 9° 0 | 11°45 | 23°57 | 4°14 | 17°29 | 27°15 | 29°D31 | 1° 8 | 12° 0 | 15° 6 | S 14 |
| S 15 | 19 32 0 | 22°30'07 | 12°18 | 5°50 | 20°59 | 9°41 | 11°54 | 23°55 | 4°16 | 17°28 | 27°17 | 29°31 | 1° 5 | 12° 6 | 15°11 | S 15 |
| M16 | 19 35 56 | 23°27'22 | 24°15 | 6° 4 | 22°10 | 10°22 | 12° 3 | 23°54 | 4°19 | 17°27 | 27°19 | 29°33 | 1° 1 | 12°13 | 15°15 | M16 |
| T 17 | 19 39 53 | 24°24'38 | 6 Υ 21 | 6°25 | 23°22 | 11° 2 | 12°12 | 23°53 | 4°22 | 17°26 | 27°20 | 29°34 | 0°58 | 12°20 | 15°19 | T 17 |
| W18 | 19 43 49 | 25°21'54 | 18°43 | 6°51 | 24°33 | 11°43 | 12°20 | 23°52 | 4°24 | 17°26 | 27°22 | 29°35 | 0°55 | 12°26 | 15°24 | W18 |
| T 19 | 19 47 46 | 26°19'11 | 1826 | 7°23 | 25°45 | 12°23 | 12°28 | 23°51 | 4°27 | 17°25 | 27°24 | 29°R36 | 0°52 | 12°33 | 15°28 | T 19 |
| F 20 | 19 51 43 | 27°16'29 | 14°32 | 8° 0 | 26°56 | 13° 4 | 12°37 | 23°50 | 4°29 | 17°24 | 27°26 | 29°34 | 0°49 | 12°40 | 15°32 | F 20 |
| S 21 | 19 55 39 | 28°13'49 | 28° 5 | 8°44 | 28° 8 | 13°44 | 12°45 | 23°50 | 4°31 | 17°23 | 27°27 | 29°32 | 0°46 | 12°46 | 15°37 | S 21 |
| S 22 | 19 59 36 | 29°11'09 | 12 II 6 | 9°32 | 29°20 | 14°24 | 12°52 | 23°49 | 4°34 | 17°22 | 27°29 | 29°28 | 0°42 | 12°53 | 15°41 | S 22 |
| M23 | 20 3 32 | 0 N 8'30 | 26°34 | 10°27 | 0ഇ32 | 15° 4 | 13° 0 | 23°48 | 4°36 | 17°21 | 27°31 | 29°24 | 0°39 | 13° 0 | 15°45 | M23 |
| T 24 | 20 7 29 | 1° 5'52 | 119524 | 11°27 | 1°43 | 15°44 | 13° 8 | 23°48 | 4°38 | 17°20 | 27°32 | 29°20 | 0°36 | 13° 6 | 15°49 | T 24 |
| W25 | 20 11 25 | 2° 3'15 | 26°30 | 12°33 | 2°55 | 16°23 | 13°15 | 23°47 | 4°41 | 17°19 | 27°34 | 29°17 | 0°33 | 13°13 | 15°53 | W25 |
| T 26 | 20 15 22 | 3° 0'39 | 11 Ω 41 | 13°44 | 4° 7 | 17° 3 | 13°23 | 23°47 | 4°43 | 17°18 | 27°36 | 29°15 | 0°30 | 13°20 | 15°57 | T 26 |
| F 27 | 20 19 18 | 3°58'04 | 26°49 | 15° 0 | 5°19 | 17°42 | 13°30 | 23°47 | 4°45 | 17°17 | 27°37 | 29°D14 | 0°26 | 13°26 | 16° 1 | F 27 |
| S 28 | 20 23 15 | 4°55'29 | 11 M)44 | 16°21 | 6°31 | 18°21 | 13°37 | 23°D47 | 4°47 | 17°16 | 27°39 | 29°14 | 0°23 | 13°33 | 16° 5 | S 28 |
| S 29 | 20 27 12 | 5°52'55 | 26°19 | 17°46 | 7°43 | 19° 0 | 13°44 | 23°47 | 4°49 | 17°15 | 27°41 | 29°15 | 0°20 | 13°40 | 16° 9 | S 29 |
| M30 | 20 31 8 | 6°50'21 | 10 ≏ 32 | 19°17 | 8°56 | 19°39 | 13°50 | 23°47 | 4°51 | 17°14 | 27°42 | 29°17 | 0°17 | 13°46 | 16°13 | M30 |
| T 31 | 20 35 5 | 7 Ω 47'48 | 24 ≏ 19 | 20952 | 1095 8 | 20818 | 13 8 57 | 23 M 47 | 4 Ⅱ 53 | 17 米 12 | 279544 | 29≈18 | 0 ∺ 14 | 13≈53 | 16 Ⅱ 17 | T 31 |

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|------|----------|--------------------|----------------|----------------|----------------|----------------|----------------|-----------------|---------------|----------------|--------|--------|---------------|----------------|----------------|------|
| W 1 | 20 39 1 | 8 Ω 45'16 | 7 M 43 | 22931 | 119520 | 20 8 57 | 148 3 | 23 M .48 | 4 Ⅱ 55 | 17°R11 | 279546 | 29°R18 | 0 ∺ 11 | 14≈ 0 | 16 Ⅱ 21 | W 1 |
| T 2 | 20 42 58 | 9°42'45 | 20°44 | 24°14 | 12°32 | 21°35 | 14°10 | 23°48 | 4°57 | 17 米 10 | 27°47 | 29≈18 | 0° 7 | 14° 6 | 16°24 | T 2 |
| F 3 | 20 46 54 | 10°40'15 | 3 ₹ 26 | 26° 0 | 13°45 | 22°13 | 14°16 | 23°49 | 4°59 | 17° 9 | 27°49 | 29°17 | 0° 4 | 14°13 | 16°28 | F 3 |
| S 4 | 20 50 51 | 11°37'45 | 15°51 | 27°50 | 14°57 | 22°52 | 14°22 | 23°49 | 5° 1 | 17° 7 | 27°51 | 29°15 | 0° 1 | 14°19 | 16°32 | S 4 |
| S 5 | 20 54 47 | 12°35'16 | 28° 4 | 29°42 | 16° 9 | 23°30 | 14°27 | 23°50 | 5° 3 | 17° 6 | 27°52 | 29°12 | 29≈58 | 14°26 | 16°35 | S 5 |
| M 6 | 20 58 44 | 13°32'48 | 10궁 7 | 1 Ω 37 | 17°22 | 24° 7 | 14°33 | 23°51 | 5° 5 | 17° 5 | 27°54 | 29°10 | 29°55 | 14°33 | 16°39 | M 6 |
| T 7 | 21 241 | 14°30'21 | 22° 2 | 3°34 | 18°35 | 24°45 | 14°39 | 23°52 | 5° 6 | 17° 4 | 27°55 | 29° 8 | 29°52 | 14°39 | 16°42 | T 7 |
| W 8 | 21 6 37 | 15°27'56 | 3≈53 | 5°33 | 19°47 | 25°23 | 14°44 | 23°53 | 5°8 | 17° 2 | 27°57 | 29° 6 | 29°48 | 14°46 | 16°46 | W 8 |
| T 9 | 21 10 34 | 16°25'31 | 15°42 | 7°33 | 21° 0 | 26° 0 | 14°49 | 23°54 | 5°10 | 17° 1 | 27°59 | 29° 5 | 29°45 | 14°53 | 16°49 | T 9 |
| F 10 | 21 14 30 | 17°23'08 | 27°30 | 9°34 | 22°12 | 26°37 | 14°54 | 23°55 | 5°11 | 17° 0 | 28° 0 | 29°D 5 | 29°42 | 14°59 | 16°52 | F 10 |
| S 11 | 21 18 27 | 18°20'45 | 9 ∺ 20 | 11°36 | 23°25 | 27°14 | 14°59 | 23°56 | 5°13 | 16°58 | 28° 2 | 29° 5 | 29°39 | 15° 6 | 16°56 | S 11 |
| S 12 | 21 22 23 | 19°18'24 | 21°15 | 13°38 | 24°38 | 27°51 | 15° 3 | 23°58 | 5°14 | 16°57 | 28° 3 | 29° 6 | 29°36 | 15°13 | 16°59 | S 12 |
| M13 | 21 26 20 | 20°16'05 | 3Υ 17 | 15°40 | 25°51 | 28°28 | 15° 8 | 23°59 | 5°16 | 16°55 | 28° 5 | 29° 6 | 29°32 | 15°19 | 17° 2 | M13 |
| T 14 | 21 30 16 | 21°13'47 | 15°29 | 17°42 | 27° 4 | 29° 4 | 15°12 | 24° 1 | 5°17 | 16°54 | 28° 7 | 29° 7 | 29°29 | 15°26 | 17° 5 | T 14 |
| W15 | 21 34 13 | 22°11'31 | 27°55 | 19°43 | 28°17 | 29°40 | 15°16 | 24° 2 | 5°19 | 16°52 | 28° 8 | 29° 8 | 29°26 | 15°33 | 17° 8 | W15 |
| T 16 | 21 38 10 | 23° 9'16 | 10838 | 21°44 | 29°30 | 0 Ⅱ 17 | 15°20 | 24° 4 | 5°20 | 16°51 | 28°10 | 29° 8 | 29°23 | 15°39 | 17°11 | T 16 |
| F 17 | 21 42 6 | 24° 7'03 | 23°41 | 23°44 | 0 Ω 43 | 0°52 | 15°23 | 24° 6 | 5°21 | 16°49 | 28°11 | 29°R 8 | 29°20 | 15°46 | 17°14 | F 17 |
| S 18 | 21 46 3 | 25° 4'52 | 7 II 8 | 25°43 | 1°56 | 1°28 | 15°27 | 24° 8 | 5°22 | 16°48 | 28°13 | 29° 8 | 29°17 | 15°53 | 17°17 | S 18 |
| S 19 | 21 49 59 | 26° 2'43 | 20°59 | 27°41 | 3° 9 | 2° 4 | 15°30 | 24°10 | 5°24 | 16°46 | 28°14 | 29° 8 | 29°13 | 15°59 | 17°19 | S 19 |
| M20 | 21 53 56 | 27° 0'36 | 59916 | 29°38 | 4°22 | 2°39 | 15°33 | 24°12 | 5°25 | 16°45 | 28°16 | 29° 8 | 29°10 | 16° 6 | 17°22 | M20 |
| T 21 | 21 57 52 | 27°58'30 | 19°55 | 1 m 34 | 5°36 | 3°14 | 15°36 | 24°14 | 5°26 | 16°43 | 28°17 | 29° 8 | 29° 7 | 16°13 | 17°25 | T 21 |
| W22 | 22 1 49 | 28°56'26 | 4 Ω 52 | 3°29 | 6°49 | 3°49 | 15°39 | 24°16 | 5°27 | 16°42 | 28°19 | 29°D 8 | 29° 4 | 16°19 | 17°27 | W22 |
| T 23 | 22 5 45 | 29°54'23 | 19°59 | 5°22 | 8° 2 | 4°24 | 15°42 | 24°19 | 5°28 | 16°40 | 28°20 | 29° 8 | 29° 1 | 16°26 | 17°30 | T 23 |
| F 24 | 22 9 42 | 0 m 52'23 | 5Mm, 8 | 7°14 | 9°16 | 4°58 | 15°44 | 24°21 | 5°29 | 16°39 | 28°22 | 29°R 8 | 28°58 | 16°32 | 17°32 | F 24 |
| S 25 | 22 13 39 | 1°50'23 | 20° 9 | 9° 5 | 10°29 | 5°32 | 15°46 | 24°24 | 5°30 | 16°37 | 28°23 | 29° 8 | 28°54 | 16°39 | 17°35 | S 25 |
| S 26 | 22 17 35 | 2°48'25 | 4 ₽ 55 | 10°55 | 11°43 | 6° 6 | 15°48 | 24°27 | 5°30 | 16°36 | 28°25 | 29° 7 | 28°51 | 16°46 | 17°37 | S 26 |
| M27 | 22 21 32 | 3°46'29 | 19°18 | 12°43 | 12°56 | 6°40 | 15°50 | 24°29 | 5°31 | 16°34 | 28°26 | 29° 7 | 28°48 | 16°52 | 17°39 | M27 |
| T 28 | 22 25 28 | 4°44'34 | 3 M 15 | 14°31 | 14°10 | 7°13 | 15°51 | 24°32 | 5°32 | 16°32 | 28°28 | 29° 6 | 28°45 | 16°59 | 17°41 | T 28 |
| W29 | 22 29 25 | 5°42'41 | 16°46 | 16°16 | 15°23 | 7°47 | 15°53 | 24°35 | 5°33 | 16°31 | 28°29 | 29° 6 | 28°42 | 17° 6 | 17°43 | W29 |
| T 30 | 22 33 21 | 6°40'49 | 29°51 | 18° 1 | 16°37 | 8°20 | 15°54 | 24°38 | 5°33 | 16°29 | 28°30 | 29° 5 | 28°38 | 17°12 | 17°45 | T 30 |
| F 31 | 22 37 18 | 7 m) 38'58 | 12 × 32 | 19 m 45 | 17 Ω 51 | 8 Ⅱ 52 | 15 8 55 | 24 M .41 | 5 Ⅱ 34 | 16 ∺ 27 | 28932 | 29°D 5 | 28≈35 | 17 ≈ 19 | 17 Ⅱ 47 | F 31 |

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| S 1 | 22 41 14 | 8 m 37'09 | 24 ×7 55 | 21 m) 27 | 19Ω 4 | 9П25 | 15 8 56 | 24 M 45 | 5 Ⅱ 34 | 16°R26 | 28933 | 29≈ 6 | 28≈32 | 17 ≈ 26 | 17 Ⅱ 49 | S 1 |
| S 2 M 3 T 4 W 5 T 6 F 7 S 8 | 22 45 11 22 49 8 22 53 4 22 57 1 23 0 57 23 4 54 23 8 50 | 9°35'22 10°33'36 11°31'51 12°30'08 13°28'27 14°26'48 15°25'10 | 7 る 3 19° 0 0≈51 12°39 24°27 6 光 19 18°16 | 23° 8 24°48 26°27 28° 4 29°40 1 <u>2</u> 16 2°50 | 20°18 21°32 22°46 24° 0 25°14 26°28 27°42 | 9°57 10°29 11° 1 11°32 12° 3 12°34 13° 5 | 15°56 15°57 15°R57 15°57 15°57 15°56 15°56 | 24°48 24°51 24°55 24°58 25° 2 25° 6 25° 9 | 5°35 5°36 5°36 5°36 5°36 5°37 | 16 ★24 16°23 16°21 16°19 16°18 16°16 16°14 | 28°34 28°36 28°37 28°38 28°40 28°41 28°42 | 29° 7 29° 8 29° 9 29°10 29°810 29°10 29° 9 | 28°29 28°26 28°23 28°19 28°16 28°13 28°10 | 17°32 17°39 17°46 17°52 17°59 18°6 18°12 | 17°51 17°53 17°55 17°56 17°58 17°59 18° 1 | S 2 M 3 T 4 W 5 T 6 F 7 S 8 |
| S 9 M10 T 11 W12 T 13 F 14 S 15 | 23 12 47 23 16 43 23 20 40 23 24 37 23 28 33 23 32 30 23 36 26 | 16°23'34 17°22'00 18°20'28 19°18'59 20°17'31 21°16'06 22°14'42 | 0°Y20 12°34 24°59 7836 20°27 31135 16°59 | 4°23 5°55 7°26 8°56 10°24 11°52 13°18 | 28°56 0m10 1°24 2°38 3°53 5° 7 6°21 | 13°35 14° 5 14°35 15° 4 15°33 16° 2 16°30 | 15°55 15°54 15°53 15°51 15°50 15°48 15°46 | 25°13 25°17 25°21 25°25 25°29 25°34 25°38 | 5°37 5°37 5°837 5°37 5°37 5°36 5°36 | 16°13 16°11 16° 9 16° 8 16° 6 16° 4 16° 3 | 28°43 28°44 28°46 28°47 28°48 28°49 28°50 | 29° 8 29° 5 29° 2 28°59 28°57 28°55 28°D54 | 28° 7 28° 3 28° 0 27°57 27°54 27°51 27°48 | 18°19 18°25 18°32 18°39 18°45 18°52 18°59 | 18° 2 18° 3 18° 4 18° 6 18° 7 18° 8 18° 8 | S 9 M10 T 11 W12 T 13 F 14 S 15 |
| S 16 M17 T 18 W19 T 20 F 21 S 22 | 23 40 23 23 44 19 23 48 16 23 52 12 23 56 9 0 0 6 0 4 2 | 23°13'22 24°12'03 25°10'47 26° 9'33 27° 8'21 28° 7'11 29° 6'03 | 0543 14°46 29° 7 13\$\mathcal{N}\$44 28°34 13\$\mathcal{m}\$28 28°21 | 14°44 16° 8 17°31 18°53 20°13 21°33 22°51 | 7°35 8°50 10° 4 11°19 12°33 13°48 15° 2 | 16°58 17°26 17°53 18°20 18°47 19°13 19°39 | 15°44 15°41 15°39 15°36 15°33 15°30 15°26 | 25°42 25°47 25°51 25°56 26° 1 26° 5 26°10 | 5°36 5°36 5°35 5°35 5°35 5°34 5°33 | 16° 1 15°59 15°58 15°56 15°55 15°53 15°51 | 28°51 28°52 28°53 28°54 28°55 28°56 28°57 | 28°54 28°55 28°56 28°57 28°R58 28°57 28°55 | 27°44 27°41 27°38 27°35 27°32 27°29 27°25 | 19° 5 19°12 19°19 19°25 19°32 19°39 19°45 | 18° 9 18°10 18°11 18°11 18°12 18°12 18°12 | S 16 M17 T 18 W19 T 20 F 21 S 22 |
| S 23 M24 T 25 W26 T 27 F 28 S 29 S 30 | 0 7 59 0 11 55 0 15 52 0 19 48 0 23 45 0 27 41 0 31 38 0 35 35 | 0 <u>•</u> 4'58 1° 3'54 2° 2'52 3° 1'52 4° 0'54 4°59'58 5°59'03 6 <u>•</u> 58'11 | 13 <u>a</u> 3 27°28 11 m 30 25° 6 8 x 15 21° 1 3 d 25 | 24° 7 25°22 26°36 27°48 28°58 0M 6 1°13 2M17 | 16°17 17°31 18°46 20° 1 21°15 22°30 23°45 25 m 0 | 20° 4 20°29 20°54 21°18 21°42 22° 5 22°28 | 15°23 15°19 15°15 15°11 15° 7 15° 2 14°57 | 26°15 26°20 26°25 26°30 26°35 26°41 26°46 | 5°33 5°32 5°31 5°31 5°30 5°29 5°28 | 15°50 15°48 15°47 15°45 15°43 15°42 15°40 | 28°58 28°59 29° 0 29° 1 29° 2 29° 3 29° 4 | 28°52 28°47 28°42 28°37 28°33 28°30 28°D29 28≈30 | 27°22 27°19 27°16 27°13 27° 9 27° 6 27° 3 | 19°52 19°59 20° 5 20°12 20°18 20°25 20°32 20≈38 | 18°13 18°13 18°13 18°13 18°13 18°13 18°13 | S 23 M24 T 25 W26 T 27 F 28 S 29 S 30 |

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| M 1 | 0 39 31 | 7₾57'20 | 27 云 28 | 3 M .19 | 26 Mp 14 | 23 I I12 | 14°R48 | 26M57 | 5°R26 | 15°R37 | 2995 5 | 28≈31 | 26≈57 | 20≈45 | 18°R12 | M 1 |
| T 2 | 0 43 28 | 8°56'30 | 9≈17 | 4°18 | 27°29 | 23°34 | 14842 | 27° 2 | 5 Ⅱ 25 | 15) 36 | 29° 6 | 28°33 | 26°54 | 20°52 | 18 Ⅱ 12 | T 2 |
| W 3 | 0 47 24 | 9°55'43 | 21° 4 | 5°15 | 28°44 | 23°55 | 14°37 | 27° 8 | 5°24 | 15°34 | 29° 7 | 28°34 | 26°50 | 20°58 | 18°11 | W 3 |
| T 4 | 0 51 21 | 10°54'58 | 2) (54 | 6° 8 | 29°59 | 24°15 | 14°32 | 27°13 | 5°23 | 15°33 | 29° 7 | 28°R34 | 26°47 | 21° 5 | 18°10 | T 4 |
| F 5 | 0 55 17 | 11°54'14 | 14°51 | 6°59 | 1 ≏ 14 | 24°35 | 14°26 | 27°19 | 5°22 | 15°31 | 29° 8 | 28°33 | 26°44 | 21°12 | 18°10 | F 5 |
| S 6 | 0 59 14 | 12°53'32 | 26°57 | 7°45 | 2°29 | 24°54 | 14°20 | 27°24 | 5°21 | 15°30 | 29° 9 | 28°29 | 26°41 | 21°18 | 18° 9 | S 6 |
| S 7 | 1 3 10 | 13°52'52 | 9 Υ 15 | 8°28 | 3°44 | 25°13 | 14°14 | 27°30 | 5°19 | 15°29 | 29° 9 | 28°23 | 26°38 | 21°25 | 18° 8 | S 7 |
| M 8 | 1 7 7 | 14°52'14 | 21°45 | 9° 7 | 4°59 | 25°32 | 14° 8 | 27°36 | 5°18 | 15°27 | 29°10 | 28°16 | 26°34 | 21°32 | 18° 7 | M 8 |
| T 9 | 1 11 3 | 15°51'39 | 4828 | 9°41 | 6°14 | 25°49 | 14° 2 | 27°42 | 5°17 | 15°26 | 29°10 | 28° 8 | 26°31 | 21°38 | 18° 6 | T 9 |
| W10 | 1 15 0 | 16°51'05 | 17°25 | 10° 9 | 7°29 | 26° 7 | 13°55 | 27°48 | 5°15 | 15°25 | 29°11 | 27°59 | 26°28 | 21°45 | 18° 5 | W10 |
| T 11 | 1 18 57 | 17°50'34 | 0 Ⅲ 34 | 10°32 | 8°44 | 26°23 | 13°49 | 27°54 | 5°14 | 15°23 | 29°11 | 27°51 | 26°25 | 21°51 | 18° 4 | T 11 |
| F 12 | 1 22 53 | 18°50'05 | 13°55 | 10°49 | 9°59 | 26°39 | 13°42 | 28° 0 | 5°12 | 15°22 | 29°12 | 27°44 | 26°22 | 21°58 | 18° 3 | F 12 |
| S 13 | 1 26 50 | 19°49'39 | 27°28 | 11° 0 | 11°14 | 26°55 | 13°35 | 28° 6 | 5°11 | 15°21 | 29°12 | 27°40 | 26°19 | 22° 5 | 18° 2 | S 13 |
| S 14 | 1 30 46 | 20°49'14 | 119513 | 11°R 3 | 12°29 | 27°10 | 13°28 | 28°12 | 5° 9 | 15°19 | 29°13 | 27°37 | 26°15 | 22°11 | 18° 0 | S 14 |
| M15 | 1 34 43 | 21°48'52 | 25° 8 | 10°58 | 13°44 | 27°24 | 13°21 | 28°18 | 5°8 | 15°18 | 29°13 | 27°D37 | 26°12 | 22°18 | 17°59 | M15 |
| T 16 | 1 38 39 | 22°48'33 | 9 Ω 15 | 10°45 | 14°59 | 27°38 | 13°14 | 28°24 | 5° 6 | 15°17 | 29°14 | 27°38 | 26° 9 | 22°25 | 17°57 | T 16 |
| W17 | 1 42 36 | 23°48'15 | 23°32 | 10°23 | 16°14 | 27°51 | 13° 7 | 28°30 | 5° 4 | 15°16 | 29°14 | 27°R38 | 26° 6 | 22°31 | 17°56 | W17 |
| T 18 | 1 46 32 | 24°48'00 | 7 m 57 | 9°53 | 17°29 | 28° 3 | 13° 0 | 28°37 | 5° 3 | 15°14 | 29°14 | 27°38 | 26° 3 | 22°38 | 17°54 | T 18 |
| F 19 | 1 50 29 | 25°47'47 | 22°28 | 9°14 | 18°44 | 28°15 | 12°52 | 28°43 | 5° 1 | 15°13 | 29°15 | 27°36 | 26° 0 | 22°45 | 17°52 | F 19 |
| S 20 | 1 54 26 | 26°47'36 | 6 ≏ 58 | 8°26 | 20° 0 | 28°25 | 12°45 | 28°49 | 4°59 | 15°12 | 29°15 | 27°31 | 25°56 | 22°51 | 17°51 | S 20 |
| S 21 | 1 58 22 | 27°47'28 | 21°22 | 7°29 | 21°15 | 28°36 | 12°37 | 28°56 | 4°57 | 15°11 | 29°15 | 27°23 | 25°53 | 22°58 | 17°49 | S 21 |
| M22 | 2 2 19 | 28°47'21 | 5 M .35 | 6°26 | 22°30 | 28°45 | 12°29 | 29° 2 | 4°55 | 15°10 | 29°16 | 27°13 | 25°50 | 23° 5 | 17°47 | M22 |
| T 23 | 2 6 15 | 29°47'16 | 19°30 | 5°16 | 23°45 | 28°54 | 12°22 | 29° 9 | 4°53 | 15° 9 | 29°16 | 27° 3 | 25°47 | 23°11 | 17°45 | T 23 |
| W24 | 2 10 12 | 0 M 47'13 | 3 ∡ 7 3 | 4° 2 | 25° 1 | 29° 2 | 12°14 | 29°15 | 4°51 | 15° 8 | 29°16 | 26°52 | 25°44 | 23°18 | 17°43 | W24 |
| T 25 | 2 14 8 | 1°47'12 | 16°12 | 2°45 | 26°16 | 29° 9 | 12° 6 | 29°22 | 4°49 | 15° 7 | 29°16 | 26°43 | 25°40 | 23°24 | 17°41 | T 25 |
| F 26 | 2 18 5 | 2°47'13 | 28°59 | 1°28 | 27°31 | 29°16 | 11°58 | 29°28 | 4°47 | 15° 6 | 29°16 | 26°35 | 25°37 | 23°31 | 17°38 | F 26 |
| S 27 | 2 22 1 | 3°47'15 | 11 る 24 | 0°13 | 28°46 | 29°21 | 11°50 | 29°35 | 4°45 | 15° 5 | 29°16 | 26°31 | 25°34 | 23°38 | 17°36 | S 27 |
| S 28 | 2 25 58 | 4°47'19 | 23°32 | 29 o 2 | OM 2 | 29°26 | 11°42 | 29°41 | 4°43 | 15° 4 | 29°16 | 26°28 | 25°31 | 23°44 | 17°34 | S 28 |
| M29 | 2 29 55 | 5°47'25 | 5≈28 | 27°59 | 1°17 | 29°30 | 11°34 | 29°48 | 4°41 | 15° 3 | 29°16 | 26°D27 | 25°28 | 23°51 | 17°32 | M29 |
| T 30 | 2 33 51 | 6°47'32 | 17°17 | 27° 4 | 2°32 | 29°34 | 11°26 | 29°55 | 4°39 | 15° 2 | 29°17 | 26°28 | 25°25 | 23°58 | 17°29 | T 30 |
| W31 | 2 37 48 | 7 M 47'41 | 29≈ 5 | 26 ₽ 19 | 3 M 48 | 29耳36 | 11 8 17 | 0 x 2 | 4 Ⅱ 37 | 15 ∺ 1 | 29°R17 | 26°R28 | 25≈21 | 24≈ 4 | 17 Ⅱ 27 | W31 |

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| T 1 | 2 41 44 | 8 M 47'51 | 10) 57 | 25°R45 | 5M 3 | 29∏38 | 11°R 9 | 0 x ⁷ 8 | 4°R35 | 15°R 0 | 29°R16 | 26°R27 | 25≈18 | 24≈11 | 17°R24 | T 1 |
| F 2 | 2 45 41 | 9°48'03 | 22°58 | 25 ≏ 23 | 6°18 | 29°39 | 118 1 | 0°15 | 4 Ⅲ 32 | 15 米 0 | 299516 | 26≈24 | 25°15 | 24°18 | 17 Ⅲ 21 | F 2 |
| S 3 | 2 49 37 | 10°48'16 | 5 Υ 11 | 25°D12 | 7°34 | 29°R39 | 10°53 | 0°22 | 4°30 | 14°59 | 29°16 | 26°18 | 25°12 | 24°24 | 17°19 | S 3 |
| S 4 | 2 53 34 | 11°48'31 | 17°40 | 25°13 | 8°49 | 29°38 | 10°45 | 0°29 | 4°28 | 14°58 | 29°16 | 26°10 | 25° 9 | 24°31 | 17°16 | S 4 |
| M 5 | 2 57 30 | 12°48'47 | 0 8 27 | 25°24 | 10° 4 | 29°36 | 10°37 | 0°36 | 4°26 | 14°57 | 29°16 | 25°59 | 25° 6 | 24°38 | 17°13 | M 5 |
| T 6 | 3 1 27 | 13°49'06 | 13°31 | 25°46 | 11°20 | 29°33 | 10°28 | 0°43 | 4°23 | 14°57 | 29°16 | 25°46 | 25° 2 | 24°44 | 17°10 | T 6 |
| W 7 | 3 5 24 | 14°49'26 | 26°51 | 26°18 | 12°35 | 29°30 | 10°20 | 0°49 | 4°21 | 14°56 | 29°16 | 25°33 | 24°59 | 24°51 | 17° 7 | W 7 |
| T 8 | 3 9 20 | 15°49'48 | 10耳26 | 26°57 | 13°50 | 29°26 | 10°12 | 0°56 | 4°19 | 14°55 | 29°16 | 25°21 | 24°56 | 24°58 | 17° 4 | T 8 |
| F 9 | 3 13 17 | 16°50'11 | 24°11 | 27°45 | 15° 6 | 29°21 | 10° 4 | 1° 3 | 4°16 | 14°55 | 29°15 | 25°11 | 24°53 | 25° 4 | 17° 1 | F 9 |
| S 10 | 3 17 13 | 17°50'37 | 8 9 5 3 | 28°39 | 16°21 | 29°15 | 9°56 | 1°10 | 4°14 | 14°54 | 29°15 | 25° 3 | 24°50 | 25°11 | 16°58 | S 10 |
| S 11 | 3 21 10 | 18°51'04 | 22° 1 | 29°39 | 17°36 | 29° 8 | 9°48 | 1°17 | 4°12 | 14°54 | 29°15 | 24°59 | 24°46 | 25°17 | 16°55 | S 11 |
| M12 | 3 25 6 | 19°51'34 | 6 Ω 3 | 0 M .44 | 18°52 | 29° 0 | 9°40 | 1°24 | 4° 9 | 14°53 | 29°14 | 24°57 | 24°43 | 25°24 | 16°52 | M12 |
| T 13 | 3 29 3 | 20°52'05 | 20° 6 | 1°54 | 20° 7 | 28°51 | 9°32 | 1°31 | 4° 7 | 14°53 | 29°14 | 24°56 | 24°40 | 25°31 | 16°49 | T 13 |
| W14 | 3 32 59 | 21°52'37 | 4 Mp 12 | 3° 7 | 21°23 | 28°42 | 9°24 | 1°38 | 4° 4 | 14°52 | 29°14 | 24°56 | 24°37 | 25°37 | 16°46 | W14 |
| T 15 | 3 36 56 | 22°53'12 | 18°18 | 4°24 | 22°38 | 28°31 | 9°17 | 1°45 | 4° 2 | 14°52 | 29°13 | 24°55 | 24°34 | 25°44 | 16°42 | T 15 |
| F 16 | 3 40 53 | 23°53'49 | 2 ≏ 24 | 5°43 | 23°54 | 28°20 | 9° 9 | 1°52 | 3°59 | 14°52 | 29°13 | 24°51 | 24°31 | 25°51 | 16°39 | F 16 |
| S 17 | 3 44 49 | 24°54'27 | 16°27 | 7° 5 | 25° 9 | 28° 8 | 9° 1 | 2° 0 | 3°57 | 14°51 | 29°13 | 24°45 | 24°27 | 25°57 | 16°36 | S 17 |
| S 18 | 3 48 46 | 25°55'07 | 0ML25 | 8°29 | 26°24 | 27°55 | 8°54 | 2° 7 | 3°54 | 14°51 | 29°12 | 24°36 | 24°24 | 26° 4 | 16°32 | S 18 |
| M19 | 3 52 42 | 26°55'48 | 14°14 | 9°55 | 27°40 | 27°41 | 8°47 | 2°14 | 3°52 | 14°51 | 29°12 | 24°24 | 24°21 | 26°11 | 16°29 | M19 |
| T 20 | 3 56 39 | 27°56'31 | 27°49 | 11°22 | 28°55 | 27°26 | 8°39 | 2°21 | 3°49 | 14°51 | 29°11 | 24°10 | 24°18 | 26°17 | 16°25 | T 20 |
| W21 | 4 0 35 | 28°57'15 | 11 ~ 8 | 12°50 | 0 才 11 | 27°11 | 8°32 | 2°28 | 3°47 | 14°50 | 29°11 | 23°57 | 24°15 | 26°24 | 16°22 | W21 |
| T 22 | 4 4 32 | 29°58'01 | 2 <u>4</u> ° 8 | 14°19 | 1°26 | 26°55 | 8°25 | 2°35 | 3°44 | 14°50 | 29°10 | 23°45 | 24°12 | 26°31 | 16°18 | T 22 |
| F 23 | 4 8 28 | 0 ≯ 58'48 | 6 ⋜ 49 | 15°49 | 2°42 | 26°38 | 8°18 | 2°42 | 3°42 | 14°50 | 29° 9 | 23°35 | 24° 8 | 26°37 | 16°15 | F 23 |
| S 24 | 4 12 25 | 1°59'36 | 19°12 | 17°19 | 3°57 | 26°20 | 8°11 | 2°49 | 3°39 | 14°50 | 29° 9 | 23°28 | 24° 5 | 26°44 | 16°11 | S 24 |
| S 25 | 4 16 22 | 3° 0'25 | 1≈20 | 18°50 | 5°13 | 26° 2 | 8° 4 | 2°56 | 3°37 | 14°50 | 29° 8 | 23°24 | 24° 2 | 26°50 | 16° 8 | S 25 |
| M26 | 4 20 18 | 4° 1'15 | 13°15 | 20°22 | 6°28 | 25°43 | 7°58 | 3° 3 | 3°34 | 14°D50 | 29° 7 | 23°22 | 23°59 | 26°57 | 16° 4 | M26 |
| T 27 | 4 24 15 | 5° 2'05 | 25° 4 | 21°54 | 7°44 | 25°24 | 7°51 | 3°11 | 3°32 | 14°50 | 29° 7 | 23°D22 | 23°56 | 27° 4 | 16° 0 | T 27 |
| W28 | 4 28 11 | 6° 2'57 | 6 ∺ 52 | 23°26 | 8°59 | 25° 4 | 7°45 | 3°18 | 3°29 | 14°50 | 29° 6 | 23°R22 | 23°52 | 27°10 | 15°57 | W28 |
| T 29 | 4 32 8 | 7° 3'50 | 18°43 | 24°58 | 10°14 | 24°43 | 7°39 | 3°25 | 3°27 | 14°50 | 29° 5 | 23°21 | 23°49 | 27°17 | 15°53 | T 29 |
| F 30 | 4 36 4 | 8 . ₹ 4'43 | 0 Υ 45 | 26MJ31 | 11 ∡ 30 | 24 Ⅱ 22 | 7 8 33 | 3 ∡ ³32 | 3 Ⅱ 24 | 14 米 50 | 2995 5 | 23≈19 | 23 ≈ 46 | 27≈24 | 15 Ⅱ 49 | F 30 |

Delta T = 17.57 sec

Greg. Calendar

| DECEMBER 1691 GC | 00:00 UT |
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| DECEMBER 1031 AC | 00:00 01 |

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | Р | r | ಬ | Ç | , k | Day |
|------|---------|-------------------|----------------|------------------------|-----------------|----------------|---------------|---------------|---------------|----------------|----------------|--------|---------------|---------------|----------------|--------------|
| S 1 | 4 40 1 | 9 ∡¹ 5'37 | 13 Y 1 | 28 M 3 | 12 × 745 | 24°R 0 | 7°R27 | 3 √ 39 | 3°R21 | 14) 50 | 29°R 4 | 23°R14 | 23≈43 | 27≈30 | 15°R46 | S 1 |
| S 2 | 4 43 57 | 10° 6'32 | 25°35 | 29°36 | 14° 1 | 23Ⅲ39 | 7 8 21 | 3°46 | 3 Ⅱ 19 | 14°51 | 2995 3 | 23≈ 7 | 23°40 | 27°37 | 15 Ⅱ 42 | S 2 |
| M 3 | 4 47 54 | 11° 7'28 | 8 8 32 | 1 ₹ 9 | 15°16 | 23°16 | 7°16 | 3°53 | 3°16 | 14°51 | 29° 2 | 22°57 | 23°37 | 27°44 | 15°38 | M 3 |
| T 4 | 4 51 51 | 12° 8'24 | 21°51 | 2°42 | 16°32 | 22°54 | 7°10 | 4° 0 | 3°14 | 14°51 | 29° 1 | 22°45 | 23°33 | 27°50 | 15°34 | T 4 |
| W 5 | 4 55 47 | 13° 9'22 | 5 Ⅱ 31 | 4°15 | 17°47 | 22°31 | 7° 5 | 4° 7 | 3°11 | 14°51 | 29° 1 | 22°33 | 23°30 | 27°57 | 15°31 | W 5 |
| T 6 | 4 59 44 | 14°10'20 | 19°30 | 5°49 | 19° 3 | 22° 8 | 7° 0 | 4°14 | 3° 9 | 14°52 | 29° 0 | 22°22 | 23°27 | 28° 4 | 15°27 | T 6 |
| F 7 | 5 3 40 | 15°11'19 | 3 95 42 | 7°22 | 20°18 | 21°44 | 6°55 | 4°21 | 3° 7 | 14°52 | 28°59 | 22°13 | 23°24 | 28°10 | 15°23 | F 7 |
| S 8 | 5 7 37 | 16°12'20 | 18° 2 | 8°55 | 21°33 | 21°21 | 6°50 | 4°28 | 3° 4 | 14°52 | 28°58 | 22° 6 | 23°21 | 28°17 | 15°19 | S 8 |
| S 9 | 5 11 33 | 17°13'21 | 2Ω 25 | 10°29 | 22°49 | 20°57 | 6°46 | 4°35 | 3° 2 | 14°53 | 28°57 | 22° 1 | 23°18 | 28°24 | 15°16 | S 9 |
| M10 | 5 15 30 | 18°14'23 | 16°46 | 12° 2 | 24° 4 | 20°34 | 6°42 | 4°42 | 2°59 | 14°53 | 28°56 | 22°D 0 | 23°14 | 28°30 | 15°12 | M10 |
| T 11 | 5 19 27 | 19°15'26 | 1 Mp 2 | 13°36 | 25°20 | 20°10 | 6°37 | 4°49 | 2°57 | 14°54 | 28°55 | 22° 0 | 23°11 | 28°37 | 15° 8 | T 11 |
| W12 | 5 23 23 | 20°16'30 | 15°10 | 15°10 | 26°35 | 19°47 | 6°33 | 4°56 | 2°54 | 14°54 | 28°54 | 22°R 1 | 23° 8 | 28°43 | 15° 4 | W12 |
| T 13 | 5 27 20 | 21°17'35 | 29°10 | 16°44 | 27°51 | 19°23 | 6°30 | 5° 3 | 2°52 | 14°55 | 28°53 | 22° 0 | 23° 5 | 28°50 | 15° 0 | T 13 |
| F 14 | 5 31 16 | 22°18'40 | 13 <u>₽</u> 1 | 18°18 | 29° 6 | 19° 0 | 6°26 | 5°10 | 2°50 | 14°56 | 28°52 | 21°58 | 23° 2 | 28°57 | 14°57 | F 14 |
| S 15 | 5 35 13 | 23°19'47 | 26°44 | 19°52 | 0 궁 21 | 18°37 | 6°23 | 5°17 | 2°47 | 14°56 | 28°51 | 21°54 | 22°58 | 29° 3 | 14°53 | S 15 |
| S 16 | 5 39 9 | 24°20'55 | 10 M 17 | 21°26 | 1°37 | 18°15 | 6°20 | 5°24 | 2°45 | 14°57 | 28°50 | 21°47 | 22°55 | 29°10 | 14°49 | S 16 |
| M17 | 5 43 6 | 25°22'03 | 23°39 | 23° 1 | 2°52 | 17°52 | 6°17 | 5°31 | 2°43 | 14°58 | 28°49 | 21°38 | 22°52 | 29°17 | 14°46 | M17 |
| T 18 | 5 47 2 | 26°23'12 | 6 ₮ 49 | 24°36 | 4° 8 | 17°30 | 6°14 | 5°37 | 2°40 | 14°58 | 28°48 | 21°28 | 22°49 | 29°23 | 14°42 | T 18 |
| W19 | 5 50 59 | 27°24'21 | 19°47 | 26°11 | 5°23 | 17° 8 | 6°11 | 5°44 | 2°38 | 14°59 | 28°47 | 21°17 | 22°46 | 29°30 | 14°38 | W19 |
| T 20 | 5 54 56 | 28°25'31 | 2 ප 30 | 27°46 | 6°39 | 16°47 | 6° 9 | 5°51 | 2°36 | 15° 0 | 28°46 | 21° 8 | 22°43 | 29°37 | 14°35 | T 20 |
| F 21 | 5 58 52 | 29°26'41 | 14°58 | 29°21 0 る 57 | 7°54 9° 9 | 16°27 | 6° 7 | 5°58 6° 4 | 2°34 2°32 | 15° 1 | 28°44 | 21° 0 | 22°39 | 29°43 | 14°31 | F 21 |
| S 22 | 6 2 49 | 0 පි 27'52 | 27°13 | | 9- 9 | 16° 6 | 6° 5 | 6- 4 | | 15° 2 | 28°43 | 20°55 | 22°36 | 29°50 | 14°27 | S 22 |
| S 23 | 6 6 45 | 1°29'02 | 9≈16 | 2°33 | 10°25 | 15°47 | 6° 3 | 6°11 | 2°30 | 15° 3 | 28°42 | 20°52 | 22°33 | 29°57 | 14°24 | S 23 |
| M24 | 6 10 42 | 2°30'13 | 21° 9 | 4° 9 | 11°40 | 15°28 | 6° 1 | 6°18 | 2°27 | 15° 4 | 28°41 | 20°D51 | 22°30 | 0) 3 | 14°20 | M24 |
| T 25 | 6 14 38 | 3°31'23 | 2) 57 | 5°45 | 12°56 | 15° 9 | 6° 0 | 6°24 | 2°25 | 15° 4 | 28°40 | 20°52 | 22°27 | 0°10 | 14°17 | T 25 |
| W26 | 6 18 35 | 4°32'34 | 14°44 | 7°22 | 14°11 | 14°52 | 5°59 | 6°31 | 2°23 | 15° 5 | 28°39 | 20°53 | 22°24 | 0°17 | 14°13 | W26 |
| T 27 | 6 22 31 | 5°33'44 | 26°34 | 8°59 | 15°26 | 14°35 | 5°58 | 6°37 | 2°21 | 15° 7 | 28°37 | 20°54 | 22°20 | 0°23 | 14°10 | T 27 |
| F 28 | 6 26 28 | 6°34'54 | 8 Υ 34 | 10°37 12°14 | 16°42 17°57 | 14°18 | 5°57 5°57 | 6°44 6°50 | 2°19 2°17 | 15° 8 15° 9 | 28°36 28°35 | 20°R55 | 22°17 | 0°30 0°36 | 14° 6 14° 3 | F 28 S 29 |
| S 29 | 6 30 25 | 7°36'04 | 20°48 | | | 14° 3 | | | | | | 20°54 | 22°14 | | | |
| S 30 | 6 34 21 | 8°37'13 | 3 8 21 | 1 <u>3</u> °52 | 1 <u>9</u> °13 | 13°48 | 5°56 | 6°57 | 2°15 | 15°10 | 28°34 | 20°51 | 22°11 | 0°43 | 14° 0 | S 30 |
| M31 | 6 38 18 | 9 ට 38'23 | 16 8 17 | 15 る 31 | 20 궁 28 | 13 Ⅱ 34 | 5°D56 | 7 .₹ 3 | 2 Ⅱ 14 | 15) 11 | 28932 | 20≈46 | 22 ≈ 8 | 0 ∺ 50 | 13 Ⅱ 56 | M31 |

Delta T = 17.53 sec

JANUARY 1692 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| 卉 | Р | ß | v | Ç | ę, | Day |
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| T 1 | 6 42 14 | 10る39'32 | 29840 | 17る 9 | 21 궁 43 | 13°R20 | 5 8 56 | 7 √ 10 | 2°R12 | 15 ¥ 12 | 28°R31 | 20°R40 | 22≈ 4 | 0 ¥ 56 | 13°R53 | T 1 |
| W 2 | 6 46 11 | 11°40'40 | 13Ⅱ28 | 18°48 | 22°59 | 13 II 8 | 5°57 | 7°16 | 2∏10 | 15°13 | 28930 | 20≈33 | 22° 1 | 1° 3 | 13耳50 | W 2 |
| T 3 | 6 50 7 | 12°41'49 | 27°40 | 20°27 | 24°14 | 12°56 | 5°57 | 7°22 | 2° 8 | 15°15 | 28°29 | 20°27 | 21°58 | 1°10 | 13°47 | T 3 |
| F 4 S 5 | 6 54 4 6 58 1 | 13°42'57 14°44'05 | 12 © 12 26°57 | 22° 7 23°46 | 25°29 26°44 | 12°45 12°35 | 5°58 5°59 | 7°28 7°34 | 2° 6 2° 5 | 15°16 15°17 | 28°27 28°26 | 20°22 20°18 | 21°55 21°52 | 1°16 1°23 | 13°44 13°41 | F 4 S 5 |
| | | | | | | | | | | | | | | | | |
| S 6 | 7 1 57 | 15°45'13 | 110047 | 25°26 | 28° 0 | 12°26 | 6° 0 | 7°41 | 2° 3 | 15°19 | 28°25 | 20°16 | 21°49 | 1°30 | 13°38 | S 6 |
| M 7 T 8 | 7 5 54 7 9 50 | 16°46'21 17°47'28 | 26°35 11 m)14 | 27° 6 28°46 | 29°15 0 ≈ 30 | 12°17 12° 9 | 6° 1 6° 3 | 7°47 7°53 | 2° 2 2° 0 | 15°20 15°21 | 28°23 28°22 | 20°D16 20°17 | 21°45 21°42 | 1°36 1°43 | 13°35 13°32 | M 7 T 8 |
| W 9 | 7 13 47 | 17 47 28 18°48'35 | 25°39 | 28 40 0 ≈ 26 | 1°46 | 12° 2 | 6° 5 | 7°59 | 1°58 | 15°23 | 28°21 | 20°17 | 21°39 | 1°50 | 13°29 | W 9 |
| T 10 | 7 17 43 | 19°49'42 | 9 <u>Ω</u> 49 | 2° 5 | 3° 1 | 11°56 | 6° 7 | 8° 5 | 1°57 | 15°24 | 28°19 | 20°20 | 21°36 | 1°56 | 13°26 | T 10 |
| F 11 | 7 21 40 | 20°50'49 | 23°40 | 3°45 | 4°16 | 11°51 | 6° 9 | 8°10 | 1°56 | 15°26 | 28°18 | 20°R20 | 21°33 | 2° 3 | 13°23 | F 11 |
| S 12 | 7 25 36 | 21°51'56 | 7 ™ 15 | 5°23 | 5°31 | 11°46 | 6°11 | 8°16 | 1°54 | 15°27 | 28°17 | 20°19 | 21°30 | 2°10 | 13°20 | S 12 |
| S 13 | 7 29 33 | 22°53'03 | 20°33 | 7° 1 | 6°46 | 11°43 | 6°14 | 8°22 | 1°53 | 15°29 | 28°15 | 20°17 | 21°26 | 2°16 | 13°18 | S 13 |
| M14 | 7 33 30 | 23°54'09 | 3 ₹ 35 | 8°38 | 8° 2 | 11°40 | 6°17 | 8°28 | 1°52 | 15°30 | 28°14 | 20°13 | 21°23 | 2°23 | 13°15 | M14 |
| T 15 | 7 37 26 | 24°55'15 | 16°24 | 10°14 | 9°17 | 11°38 | 6°19 | 8°33 | 1°50 | 15°32 | 28°13 | 20° 9 | 21°20 | 2°29 | 13°13 | T 15 |
| W16 | 7 41 23 | 25°56'21 | 28°59 | 11°49 | 10°32 | 11°37 | 6°23 | 8°39 | 1°49 | 15°33 | 28°11 | 20° 5 | 21°17 | 2°36 | 13°10 | W16 |
| T 17 | 7 45 19 | 26°57'26 | 11 る 23 | 13°21 | 11°47 | 11°D36 | 6°26 | 8°44 | 1°48 | 15°35 | 28°10 | 20° 1 | 21°14 | 2°43 | 13° 8 | T 17 |
| F 18 S 19 | 7 49 16 7 53 12 | 27°58'30 28°59'34 | 23°36 5 ≈ 40 | 14°51 16°18 | 13° 2 14°18 | 11°36 11°37 | 6°30 6°33 | 8°50 8°55 | 1°47 1°46 | 15°37 15°38 | 28° 9 28° 7 | 19°58 19°56 | 21°10 21° 7 | 2°49 2°56 | 13° 6 13° 3 | F 18 S 19 |
| | | | | | | | | | | | | | - | | | |
| S 20 | 7 57 9 | 0 0 0 36 | 17°36 | 17°42 | 15°33 | 11°39 | 6°37 | 9° 1 | 1°45 | 15°40 | 28° 6 | 19°D55 | 21° 4 | 3° 3 | 13° 1 | S 20 |
| M21 T 22 | 8 1 5 8 5 2 | 1° 1'38 2° 2'39 | 29°26 11) 13 | 19° 2 20°17 | 16°48 18° 3 | 11°42 11°45 | 6°41 6°46 | 9° 6 9°11 | 1°44 1°43 | 15°42 15°44 | 28° 5 28° 3 | 19°55 19°57 | 21° 1 20°58 | 3° 9 3°16 | 12°59 12°57 | M21 T 22 |
| W23 | 8 8 5 9 | 3° 3'39 | 23° 0 | 20 17 21°27 | 19°18 | 11°49 | 6°50 | 9°16 | 1°42 | 15°45 | 28° 2 | 19°58 | 20°55 | 3°23 | 12°55 | W23 |
| T 24 | 8 12 55 | 4° 4'37 | 4 Υ 51 | 22°30 | 20°33 | 11°54 | 6°55 | 9°21 | 1°41 | 15°47 | 28° 0 | 20° 0 | 20°51 | 3°29 | 12°53 | T 24 |
| F 25 | 8 16 52 | 5° 5'35 | 16°50 | 23°27 | 21°48 | 11°59 | 7° 0 | 9°26 | 1°40 | 15°49 | 27°59 | 20° 1 | 20°48 | 3°36 | 12°51 | F 25 |
| S 26 | 8 20 48 | 6° 6'31 | 29° 1 | 24°16 | 23° 3 | 12° 5 | 7° 5 | 9°31 | 1°40 | 15°51 | 27°58 | 20° 2 | 20°45 | 3°43 | 12°49 | S 26 |
| S 27 | 8 24 45 | 7° 7'26 | 11830 | 24°56 | 24°18 | 12°12 | 7°10 | 9°36 | 1°39 | 15°53 | 27°56 | 20°R 2 | 20°42 | 3°49 | 12°48 | S 27 |
| M28 | 8 28 41 | 8° 8'19 | 24°20 | 25°27 | 25°33 | 12°19 | 7°15 | 9°41 | 1°38 | 15°55 | 27°55 | 20° 1 | 20°39 | 3°56 | 12°46 | M28 |
| T 29 | 8 32 38 | 9° 9'12 | 7 Ⅲ 35 | 25°47 | 26°48 | 12°27 | 7°21 | 9°46 | 1°38 | 15°56 | 27°54 | 20° 0 | 20°36 | 4° 3 | 12°44 | T 29 |
| W30 | 8 36 34 | 10°10'03 | 21°18 | 25°R58 | 28° 3 | 12°36 | 7°27 | 9°50 | 1°37 | 15°58 | 27°52 | 19°59 | 20°32 | 4° 9 | 12°43 | W30 |
| T 31 | 8 40 31 | 11≈10′52 | 5928 | 25≈57 | 29≈18 | 12 Ⅱ 45 | 7 8 33 | 9 ∡ 755 | 1 Ⅱ 37 | 16 ∺ 0 | 27951 | 19≈58 | 20≈29 | 4) €16 | 12 Ⅱ 42 | T 31 |

Delta T = 17.49 sec Greg. Calendar

FEBRUARY 1692 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q- | ♂ | 4 | ħ |)f(| ¥ | Р | ß | ಬ | Ç | ę, | Day |
|------|----------|-------------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|---------------|--------|----------------|-------|----------------|----------------|------|
| F 1 | 8 44 28 | 12≈11'40 | 2095 4 | 25°R45 | 0) €33 | 12耳55 | 7 8 39 | 9 ∡ 759 | 1°R36 | 16 ¥ 2 | 27°R50 | 19°R57 | 20≈26 | 4) (23 | 12°R40 | F 1 |
| S 2 | 8 48 24 | 13°12'27 | 4 Ω 58 | 25≈22 | 1°48 | 13° 6 | 7°45 | 10° 4 | 1 Ⅱ 36 | 16° 4 | 279549 | 19 ≈ 56 | 20°23 | 4°29 | 12∏39 | S 2 |
| S 3 | 8 52 21 | 14°13'13 | 20° 5 | 24°49 | 3° 2 | 13°17 | 7°51 | 10° 8 | 1°36 | 16° 6 | 27°47 | 19°D56 | 20°20 | 4°36 | 12°38 | S 3 |
| M 4 | 8 56 17 | 15°13'57 | 5 m 14 | 24° 5 | 4°17 | 13°28 | 7°58 | 10°12 | 1°36 | 16° 8 | 27°46 | 19°56 | 20°16 | 4°42 | 12°37 | M 4 |
| T 5 | 9 0 14 | 16°14'40 | 20°17 | 23°14 | 5°32 | 13°40 | 8° 5 | 10°16 | 1°35 | 16°10 | 27°45 | 19°56 | 20°13 | 4°49 | 12°36 | T 5 |
| W 6 | 9 4 10 | 17°15'22 | 5 <u>₽</u> 6 | 22°15 | 6°47 | 13°53 | 8°12 | 10°21 | 1°35 | 16°12 | 27°43 | 19°57 | 20°10 | 4°56 | 12°35 | W 6 |
| T 7 | 9 8 7 | 18°16'02 | 19°34 | 21°11 | 8° 1 | 14° 6 | 8°19 | 10°25 | 1°35 | 16°14 | 27°42 | 19°57 | 20° 7 | 5° 2 | 12°34 | T 7 |
| F 8 | 9 12 3 | 19°16'42 | 3 M .38 | 20° 3 | 9°16 | 14°20 | 8°26 | 10°29 | 1°D35 | 16°16 | 27°41 | 19°57 | 20° 4 | 5° 9 | 12°33 | F 8 |
| S 9 | 9 16 0 | 20°17'21 | 17°17 | 18°53 | 10°31 | 14°34 | 8°33 | 10°32 | 1°35 | 16°19 | 27°40 | 19°57 | 20° 1 | 5°16 | 12°32 | S 9 |
| S 10 | 9 19 57 | 21°17'58 | 0 ∡ ³33 | 17°43 | 11°45 | 14°49 | 8°41 | 10°36 | 1°35 | 16°21 | 27°38 | 19°57 | 19°57 | 5°22 | 12°32 | S 10 |
| M11 | 9 23 53 | 22°18'34 | 13°28 | 16°36 | 13° 0 | 15° 4 | 8°49 | 10°40 | 1°35 | 16°23 | 27°37 | 19°57 | 19°54 | 5°29 | 12°31 | M11 |
| T 12 | 9 27 50 | 23°19'09 | 26° 4 | 15°31 | 14°15 | 15°20 | 8°56 | 10°44 | 1°36 | 16°25 | 27°36 | 19°58 | 19°51 | 5°36 | 12°31 | T 12 |
| W13 | 9 31 46 | 24°19'43 | 8 궁 25 | 14°32 | 15°29 | 15°36 | 9° 4 | 10°47 | 1°36 | 16°27 | 27°35 | 19°58 | 19°48 | 5°42 | 12°30 | W13 |
| T 14 | 9 35 43 | 25°20'16 | 20°34 | 13°38 | 16°44 | 15°53 | 9°13 | 10°50 | 1°36 | 16°29 | 27°34 | 19°59 | 19°45 | 5°49 | 12°30 | T 14 |
| F 15 | 9 39 39 | 26°20'47 | 2≈34 | 12°51 | 17°58 | 16°10 | 9°21 | 10°54 | 1°36 | 16°31 | 27°33 | 19°59 | 19°42 | 5°56 | 12°30 | F 15 |
| S 16 | 9 43 36 | 27°21'16 | 14°28 | 12°11 | 19°13 | 16°27 | 9°29 | 10°57 | 1°37 | 16°33 | 27°31 | 19°R59 | 19°38 | 6° 2 | 12°30 | S 16 |
| S 17 | 9 47 32 | 28°21'44 | 26°17 | 11°38 | 20°27 | 16°45 | 9°38 | 11° 0 | 1°37 | 16°36 | 27°30 | 19°59 | 19°35 | 6° 9 | 12°D30 | S 17 |
| M18 | 9 51 29 | 29°22'10 | 8 ∺ 5 | 11°13 | 21°42 | 17° 3 | 9°46 | 11° 3 | 1°38 | 16°38 | 27°29 | 19°59 | 19°32 | 6°16 | 12°30 | M18 |
| T 19 | 9 55 26 | 0₩22'35 | 19°53 | 10°56 | 22°56 | 17°22 | 9°55 | 11° 6 | 1°38 | 16°40 | 27°28 | 19°58 | 19°29 | 6°22 | 12°30 | T 19 |
| W20 | 9 59 22 | 1°22'58 | 1 Υ 43 | 10°45 | 24°10 | 17°41 | 10° 4 | 11° 9 | 1°39 | 16°42 | 27°27 | 19°56 | 19°26 | 6°29 | 12°30 | W20 |
| T 21 | 10 3 19 | 2°23'18 | 13°38 | 10°D42 | 25°25 | 18° 1 | 10°13 | 11°12 | 1°40 | 16°44 | 27°26 | 19°54 | 19°22 | 6°36 | 12°30 | T 21 |
| F 22 | 10 7 15 | 3°23'37 | 25°41 | 10°45 | 26°39 | 18°21 | 10°22 | 11°15 | 1°40 | 16°47 | 27°25 | 19°52 | 19°19 | 6°42 | 12°31 | F 22 |
| S 23 | 10 11 12 | 4°23'54 | 7 8 54 | 10°55 | 27°53 | 18°41 | 10°32 | 11°17 | 1°41 | 16°49 | 27°24 | 19°51 | 19°16 | 6°49 | 12°31 | S 23 |
| S 24 | 10 15 8 | 5°24'10 | 20°22 | 11°10 | 29° 7 | 19° 1 | 10°41 | 11°20 | 1°42 | 16°51 | 27°23 | 19°49 | 19°13 | 6°55 | 12°32 | S 24 |
| M25 | 10 19 5 | 6°24'23 | 3 II 8 | 11°31 | 0 Υ 22 | 19°22 | 10°51 | 11°22 | 1°43 | 16°53 | 27°22 | 19°D49 | 19°10 | 7° 2 | 12°32 | M25 |
| T 26 | 10 23 1 | 7°24'34 | 16°15 | 11°58 | 1°36 | 19°44 | 11° 1 | 11°25 | 1°44 | 16°56 | 27°21 | 19°49 | 19° 7 | 7° 9 | 12°33 | T 26 |
| W27 | 10 26 58 | 8°24'43 | 29°47 | 12°29 | 2°50 | 20° 5 | 11°10 | 11°27 | 1°45 | 16°58 | 27°20 | 19°50 | 19° 3 | 7°15 | 12°34 | W27 |
| T 28 | 10 30 55 | 9°24'50 | 139545 | 13° 5 | 4° 4 | 20°27 | 11°20 | 11°29 | 1°46 | 17° 0 | 27°19 | 19°51 | 19° 0 | 7°22 | 12°34 | T 28 |
| F 29 | 10 34 51 | 10 米 24′54 | 289 8 | 13 ≈ 45 | 5 Ƴ 18 | 20 Ⅱ 49 | 11830 | 11 × 31 | 1 Ⅱ 47 | 17 ∺ 2 | 279518 | 19≈52 | 18≈57 | 7 ∺ 29 | 12 耳 35 | F 29 |

Delta T = 17.45 sec

MARCH 1692 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)f(| ¥ | Р | 'n | Ω | Ç | ę, | Day |
|------|----------|-------------------|-----------------|----------------|---------------|-----------------|----------------|-----------------|---------------|----------------|--------|----------------|----------------|----------------|-----------------|------|
| S 1 | 10 38 48 | 11 米 24'57 | 12 N 55 | 14≈28 | 6 Υ 32 | 21 I I12 | 11 8 41 | 11 × 33 | 1 Ⅱ 48 | 17 米 5 | 27°R17 | 19°R53 | 18 ≈ 54 | 7 ∺ 35 | 12 II 36 | S 1 |
| S 2 | 10 42 44 | 12°24'57 | 27°59 | 15°16 | 7°46 | 21°35 | 11°51 | 11°35 | 1°49 | 17° 7 | 279516 | 19 ≈ 53 | 18°51 | 7°42 | 12°38 | S 2 |
| M 3 | 10 46 41 | 13°24'56 | 13 Mp 14 | 16° 7 | 8°59 | 21°58 | 12° 1 | 11°37 | 1°50 | 17° 9 | 27°15 | 19°52 | 18°48 | 7°49 | 12°39 | M 3 |
| T 4 | 10 50 37 | 14°24'52 | 28°28 | 17° 1 | 10°13 | 22°21 | 12°12 | 11°39 | 1°52 | 17°11 | 27°14 | 19°50 | 18°44 | 7°55 | 12°40 | T 4 |
| W 5 | 10 54 34 | 15°24'47 | 13 ₽ 31 | 17°58 | 11°27 | 22°45 | 12°22 | 11°40 | 1°53 | 17°14 | 27°13 | 19°46 | 18°41 | 8° 2 | 12°41 | W 5 |
| T 6 | 10 58 30 | 16°24'40 | 28°16 | 18°58 | 12°41 | 23° 9 | 12°33 | 11°42 | 1°54 | 17°16 | 27°13 | 19°42 | 18°38 | 8° 9 | 12°43 | T 6 |
| F 7 | 11 2 27 | 17°24'31 | 12 M .36 | 20° 0 | 13°54 | 23°33 | 12°44 | 11°43 | 1°56 | 17°18 | 27°12 | 19°39 | 18°35 | 8°15 | 12°44 | F 7 |
| S 8 | 11 624 | 18°24'21 | 26°27 | 21° 5 | 15° 8 | 23°58 | 12°55 | 11°44 | 1°57 | 17°21 | 27°11 | 19°36 | 18°32 | 8°22 | 12°46 | S 8 |
| S 9 | 11 10 20 | 19°24'09 | 9 .7 49 | 22°12 | 16°22 | 24°22 | 13° 6 | 11°45 | 1°59 | 17°23 | 27°10 | 19°34 | 18°28 | 8°29 | 12°47 | S 9 |
| M10 | 11 14 17 | 20°23'55 | 22°46 | 23°22 | 17°35 | 24°47 | 13°17 | 11°46 | 2° 0 | 17°25 | 27°10 | 19°D34 | 18°25 | 8°35 | 12°49 | M10 |
| T 11 | 11 18 13 | 21°23'40 | 5 云 20 | 24°33 | 18°49 | 25°13 | 13°28 | 11°47 | 2° 2 | 17°27 | 27° 9 | 19°35 | 18°22 | 8°42 | 12°51 | T 11 |
| W12 | 11 22 10 | 22°23'23 | 17°35 | 25°47 | 20° 2 | 25°38 | 13°39 | 11°48 | 2° 3 | 17°30 | 27° 8 | 19°36 | 18°19 | 8°49 | 12°53 | W12 |
| T 13 | 11 26 6 | 23°23'04 | 29°37 | 27° 2 | 21°15 | 26° 4 | 13°51 | 11°49 | 2° 5 | 17°32 | 27° 7 | 19°38 | 18°16 | 8°55 | 12°55 | T 13 |
| F 14 | 11 30 3 | 24°22'43 | 11 ≈ 30 | 28°19 | 22°29 | 26°30 | 14° 2 | 11°50 | 2° 7 | 17°34 | 27° 7 | 19°39 | 18°13 | 9° 2 | 12°57 | F 14 |
| S 15 | 11 33 59 | 25°22'20 | 23°18 | 29°38 | 23°42 | 26°56 | 14°14 | 11°50 | 2° 9 | 17°36 | 27° 6 | 19°R40 | 18° 9 | 9° 9 | 12°59 | S 15 |
| S 16 | 11 37 56 | 26°21'56 | 5 ¥ 5 | 0 ∺ 59 | 24°55 | 27°22 | 14°25 | 11°51 | 2°11 | 17°39 | 27° 6 | 19°38 | 18° 6 | 9°15 | 13° 1 | S 16 |
| M17 | 11 41 53 | 27°21'29 | 16°52 | 2°21 | 26° 8 | 27°49 | 14°37 | 11°51 | 2°12 | 17°41 | 27° 5 | 19°35 | 18° 3 | 9°22 | 13° 3 | M17 |
| T 18 | 11 45 49 | 28°21'00 | 28°44 | 3°45 | 27°22 | 28°15 | 14°49 | 11°52 | 2°14 | 17°43 | 27° 4 | 19°30 | 18° 0 | 9°28 | 13° 5 | T 18 |
| W19 | 11 49 46 | 29°20'30 | 10 Y 41 | 5°10 | 28°35 | 28°42 | 15° 1 | 11°52 | 2°16 | 17°45 | 27° 4 | 19°23 | 17°57 | 9°35 | 13° 8 | W19 |
| T 20 | 11 53 42 | 0 Ƴ 19'57 | 22°45 | 6°37 | 29°48 | 29°10 | 15°13 | 11°R52 | 2°18 | 17°48 | 27° 3 | 19°16 | 17°53 | 9°42 | 13°10 | T 20 |
| F 21 | 11 57 39 | 1°19'22 | 4 8 58 | 8° 6 | 18 1 | 29°37 | 15°25 | 11°52 | 2°20 | 17°50 | 27° 3 | 19° 8 | 17°50 | 9°48 | 13°13 | F 21 |
| S 22 | 12 1 35 | 2°18'45 | 17°21 | 9°36 | 2°14 | 0ණ 5 | 15°37 | 11°52 | 2°23 | 17°52 | 27° 3 | 19° 0 | 17°47 | 9°55 | 13°15 | S 22 |
| S 23 | 12 5 32 | 3°18'06 | 29°56 | 11° 7 | 3°26 | 0°32 | 15°49 | 11°51 | 2°25 | 17°54 | 27° 2 | 18°54 | 17°44 | 10° 2 | 13°18 | S 23 |
| M24 | 12 9 28 | 4°17'25 | 12 Ⅱ 45 | 12°40 | 4°39 | 1° 0 | 16° 1 | 11°51 | 2°27 | 17°57 | 27° 2 | 18°50 | 17°41 | 10° 8 | 13°21 | M24 |
| T 25 | 12 13 25 | 5°16'41 | 25°51 | 14°14 | 5°52 | 1°28 | 16°14 | 11°51 | 2°29 | 17°59 | 27° 1 | 18°48 | 17°38 | 10°15 | 13°23 | T 25 |
| W26 | 12 17 22 | 6°15'55 | 99515 | 15°50 | 7° 5 | 1°57 | 16°26 | 11°50 | 2°31 | 18° 1 | 27° 1 | 18°D47 | 17°34 | 10°22 | 13°26 | W26 |
| T 27 | 12 21 18 | 7°15'07 | 23° 1 | 17°27 | 8°17 | 2°25 | 16°38 | 11°50 | 2°34 | 18° 3 | 27° 1 | 18°48 | 17°31 | 10°28 | 13°29 | T 27 |
| F 28 | 12 25 15 | 8°14'16 | 7 Ω 8 | 19° 5 | 9°30 | 2°54 | 16°51 | 11°49 | 2°36 | 18° 5 | 27° 0 | 18°49 | 17°28 | 10°35 | 13°32 | F 28 |
| S 29 | 12 29 11 | 9°13'23 | 21°38 | 20°45 | 10°42 | 3°22 | 17° 4 | 11°48 | 2°38 | 18° 8 | 27° 0 | 18°R50 | 17°25 | 10°42 | 13°35 | S 29 |
| S 30 | 12 33 8 | 10°12'28 | 6Mp26 | 22°27 | 11°55 | 3°51 | 17°16 | 11°47 | 2°41 | 18°10 | 27° 0 | 18°48 | 17°22 | 10°48 | 13°38 | S 30 |
| M31 | 12 37 4 | 11 Y 11'30 | 21 M 27 | 24 米 10 | 138 7 | 49520 | 17 8 29 | 11 ×7 46 | 2 ∏ 43 | 18 ∺ 12 | 2799 0 | 18 ≈ 45 | 17 ≈ 19 | 10 ∺ 55 | 13 Ⅱ 41 | M31 |

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| T 1 | 12 41 1 | 12 Y 10'30 | 6 ₾ 33 | 25) 54 | 14 8 19 | 4950 | 17842 | 11°R45 | 2 Д 46 | 18) (14 | 26°R59 | 18°R39 | 17≈15 | 11) 2 | 13 Ⅱ 45 | T 1 |
| W 2 | 12 44 57 | 13° 9'28 | 21°35 | 27°40 | 15°32 | 5°19 | 17°55 | 11 .7 44 | 2°48 | 18°16 | 26959 | 18 ≈ 32 | 17°12 | 11°8 | 13°48 | W 2 |
| T 3 | 12 48 54 | 14° 8'24 | 6ML23 | 29°27 | 16°44 | 5°48 | 18° 8 | 11°42 | 2°51 | 18°18 | 26°59 | 18°23 | 17° 9 | 11°15 | 13°51 | T 3 |
| F 4 | 12 52 50 | 15° 7'18 | 20°49 | 1 Υ 16 | 17°56 | 6°18 | 18°21 | 11°41 | 2°53 | 18°20 | 26°59 | 18°14 | 17° 6 | 11°22 | 13°55 | F 4 |
| S 5 | 12 56 47 | 16° 6'11 | 4 ₹ 48 | 3° 6 | 19° 8 | 6°48 | 18°34 | 11°40 | 2°56 | 18°22 | 26°59 | 18° 7 | 17° 3 | 11°28 | 13°58 | S 5 |
| S 6 | 13 0 44 | 17° 5'01 | 18°18 | 4°57 | 20°20 | 7°18 | 18°47 | 11°38 | 2°59 | 18°24 | 26°59 | 18° 1 | 16°59 | 11°35 | 14° 2 | S 6 |
| M 7 | 13 4 40 | 18° 3'50 | 1 る 20 | 6°51 | 21°32 | 7°48 | 19° 0 | 11°36 | 3° 1 | 18°26 | 26°59 | 17°57 | 16°56 | 11°42 | 14° 5 | M 7 |
| T 8 | 13 8 37 | 19° 2'37 | 13°57 | 8°45 | 22°43 | 8°18 | 19°13 | 11°35 | 3° 4 | 18°28 | 26°D59 | 17°D56 | 16°53 | 11°48 | 14° 9 | T 8 |
| W 9 | 13 12 33 | 20° 1'23 | 26°14 | 10°41 | 23°55 | 8°48 | 19°26 | 11°33 | 3° 7 | 18°30 | 26°59 | 17°56 | 16°50 | 11°55 | 14°13 | W 9 |
| T 10 | 13 16 30 | 21° 0'07 | 8 ≈ 15 | 12°39 | 25° 7 | 9°19 | 19°39 | 11°31 | 3°10 | 18°32 | 26°59 | 17°57 | 16°47 | 12° 2 | 14°17 | T 10 |
| F 11 | 13 20 26 | 21°58'49 | 20° 7 | 14°38 | 26°18 | 9°49 | 19°53 | 11°29 | 3°13 | 18°34 | 26°59 | 17°R57 | 16°44 | 12° 8 | 14°20 | F 11 |
| S 12 | 13 24 23 | 22°57'29 | 1) 54 | 16°39 | 27°30 | 10°20 | 20° 6 | 11°27 | 3°15 | 18°36 | 26°59 | 17°56 | 16°40 | 12°15 | 14°24 | S 12 |
| S 13 | 13 28 19 | 23°56'07 | 13°40 | 18°41 | 28°41 | 10°50 | 20°19 | 11°24 | 3°18 | 18°38 | 26°59 | 17°53 | 16°37 | 12°22 | 14°28 | S 13 |
| M14 | 13 32 16 | 24°54'44 | 25°31 | 20°44 | 29°52 | 11°21 | 20°33 | 11°22 | 3°21 | 18°40 | 26°59 | 17°47 | 16°34 | 12°28 | 14°32 | M14 |
| T 15 | 13 36 13 | 25°53'19 | 7 Ƴ 28 | 22°48 | 1 I I 4 | 11°52 | 20°46 | 11°20 | 3°24 | 18°42 | 26°59 | 17°38 | 16°31 | 12°35 | 14°36 | T 15 |
| W16 | 13 40 9 | 26°51'52 | 19°34 | 24°54 | 2°15 | 12°23 | 21° 0 | 11°17 | 3°27 | 18°44 | 26°59 | 17°28 | 16°28 | 12°42 | 14°40 | W16 |
| T 17 | 13 44 6 | 27°50'23 | 1851 | 27° 1 | 3°26 | 12°55 | 21°13 | 11°15 | 3°30 | 18°46 | 27° 0 | 17°15 | 16°25 | 12°48 | 14°44 | T 17 |
| F 18 | 13 48 2 | 28°48'52 | 14°19 | 29° 8 | 4°37 | 13°26 | 21°27 | 11°12 | 3°33 | 18°48 | 27° 0 | 17° 3 | 16°21 | 12°55 | 14°49 | F 18 |
| S 19 | 13 51 59 | 29°47'19 | 26°57 | 1816 | 5°48 | 13°57 | 21°41 | 11° 9 | 3°36 | 18°50 | 27° 0 | 16°51 | 16°18 | 13° 2 | 14°53 | S 19 |
| S 20 | 13 55 55 | 0 8 45'45 | 9 Ⅱ 48 | 3°24 | 6°59 | 14°29 | 21°54 | 11° 7 | 3°39 | 18°51 | 27° 0 | 16°40 | 16°15 | 13° 8 | 14°57 | S 20 |
| M21 | 13 59 52 | 1°44'08 | 22°50 | 5°33 | 8°10 | 15° 1 | 22° 8 | 11° 4 | 3°42 | 18°53 | 27° 1 | 16°32 | 16°12 | 13°15 | 15° 2 | M21 |
| T 22 | 14 3 48 | 2°42'30 | 6 9 5 | 7°42 | 9°20 | 15°32 | 22°22 | 11° 1 | 3°46 | 18°55 | 27° 1 | 16°27 | 16° 9 | 13°22 | 15° 6 | T 22 |
| W23 | 14 7 45 | 3°40'49 | 19°33 | 9°50 | 10°31 | 16° 4 | 22°35 | 10°58 | 3°49 | 18°57 | 27° 1 | 16°25 | 16° 5 | 13°28 | 15°10 | W23 |
| T 24 | 14 11 42 | 4°39'06 | 3 Ω 15 | 11°58 | 11°41 | 16°36 | 22°49 | 10°55 | 3°52 | 18°59 | 27° 2 | 16°D24 | 16° 2 | 13°35 | 15°15 | T 24 |
| F 25 | 14 15 38 | 5°37'21 | 17°13 | 14° 4 | 12°52 | 17° 8 | 23° 3 | 10°52 | 3°55 | 19° 0 | 27° 2 | 16°R25 | 15°59 | 13°42 | 15°19 | F 25 |
| S 26 | 14 19 35 | 6°35'34 | 1 m 27 | 16°10 | 14° 2 | 17°40 | 23°17 | 10°48 | 3°58 | 19° 2 | 27° 3 | 16°24 | 15°56 | 13°48 | 15°24 | S 26 |
| S 27 | 14 23 31 | 7°33'45 | 15°55 | 18°14 | 15°12 | 18°13 | 23°31 | 10°45 | 4° 2 | 19° 4 | 27° 3 | 16°22 | 15°53 | 13°55 | 15°28 | S 27 |
| M28 | 14 27 28 | 8°31'54 | 0 ჲ 34 | 20°16 | 16°22 | 18°45 | 23°45 | 10°42 | 4° 5 | 19° 5 | 27° 4 | 16°17 | 15°50 | 14° 1 | 15°33 | M28 |
| T 29 | 14 31 24 | 9°30'01 | 15°19 | 22°16 | 17°32 | 19°17 | 23°59 | 10°38 | 4° 8 | 19° 7 | 27° 4 | 16° 9 | 15°46 | 14° 8 | 15°38 | T 29 |
| W30 | 14 35 21 | 10828'06 | 0 m 2 | 24813 | 18 Ⅱ 42 | 19950 | 24812 | 10 ∡ ³35 | 4 Ⅱ 11 | 19 ∺ 8 | 2795 5 | 15≈59 | 15≈43 | 14 米 15 | 15 Ⅱ 42 | W30 |

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|---|----------------------|-----------------|-------|--------|-------|------------------|---------------|----------------|--------------|---------------|--------|----------------|-----------------|-------------------|----------|------|
| \$\begin{array}{c c c c c c c c c c c c c c c c c c c | 15 II 47 T | , . | | - | | | | | | - | | | | | 14 39 17 | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 15°52 F 2 | 14°28 | 15°37 | 15≈36 | 27° 6 | 19°12 | 4°18 | 10 × 28 | 24°40 | 20°55 | 21° 1 | 28° 1 | 28°54 | 12°24'11 | 14 43 14 | F 2 |
| M 5 | 15°57 S 3 | 14°35 | 15°34 | 15°26 | 27° 6 | 19°13 | 4°21 | 10°24 | 24°54 | 21°28 | 22°11 | 29°50 | 12 × 749 | 13°22'11 | 14 47 11 | S 3 |
| T 6 14 59 0 16°16'04 22° 2 4°58 25°39 23° 6 25°36 10°13 4°31 19°18 27° 8 15° 8 15° 24 14°55 W 7 15 2 57 17°13'58 4≈21 6°35 26°48 23°39 25°50 10° 9 4°35 19°19 27° 9 15° 7 15°21 15° 1 15° 1 15° 15° 15 15° 15° 15 15° 15° 15 15° 15° 15° 15 15° 15° 15° 15° 15° 15° 15° 15° 15° 15° | 16° 2 S 4 | 14°41 | 15°30 | 15°17 | | | | 10°20 | 25° 8 | 22° 0 | 23°20 | | | 14°20'10 | 14 51 7 | S 4 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 16° 7 M 5 | 14°48 | 15°27 | | -, - | -, -, | 4°28 | 10°17 | 25°22 | | | 3°19 | | 15°18'08 | 14 55 4 | M 5 |
| T 8 15 653 | 16°11 T 6 | 14°55 | 15°24 | 15° 8 | 27° 8 | 19°18 | 4°31 | 10°13 | 25°36 | 23° 6 | 25°39 | 4°58 | 22° 2 | 16°16'04 | 14 59 0 | T 6 |
| F 9 15 10 50 19° 944 28°18 9°36 29° 6 24°45 26°19 10° 1 4°42 19°22 27°11 15° 7 15°15 15°15 S 10 15 14 46 20° 7'35 10) | 16°16 W 7 | 15° 1 | 15°21 | 15° 7 | 27° 9 | 19°19 | 4°35 | 10° 9 | 25°50 | 23°39 | 26°48 | 6°35 | 4≈21 | 17°13'58 | 15 2 57 | W 7 |
| S 10 | 16°21 T 8 | 15° 8 | 15°18 | 15° 7 | 27°10 | 19°20 | 4°38 | 10° 5 | 26° 5 | 24°12 | 27°57 | 8° 7 | 16°25 | 18°11'52 | 15 6 53 | T 8 |
| S 11 | 16°26 F 9 | 15°15 | 15°15 | 15° 7 | 27°11 | 19°22 | 4°42 | 10° 1 | 26°19 | 24°45 | 29° 6 | 9°36 | 28°18 | 19° 9'44 | 15 10 50 | F 9 |
| M12 | 16°31 S 10 | 15°21 | 15°11 | 15° 5 | 27°11 | 19°23 | 4°45 | 9°57 | 26°33 | 25°19 | 09୍ତ14 | 11° 2 | 10 米 7 | 20° 7'35 | 15 14 46 | S 10 |
| T 13 | 16°37 S 1 | 15°28 | 15° 8 | 15° 2 | 27°12 | 19°24 | 4°49 | 9°53 | 26°47 | 25°52 | 1°23 | 12°23 | 21°56 | 21° 5'25 | 15 18 43 | S 11 |
| W14 | 16°42 M12 | 15°35 | 15° 5 | 14°56 | 27°13 | 19°26 | 4°52 | 9°49 | 27° 1 | 26°25 | 2°32 | 13°41 | 3 ℃ 50 | 22° 3'13 | 15 22 40 | M12 |
| T 15 | 16°47 T 13 | 15°41 | 15° 2 | 14°48 | 27°14 | 19°27 | 4°55 | 9°45 | 27°15 | 26°59 | 3°40 | 14°55 | 15°53 | 23° 1'00 | 15 26 36 | T 13 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 16°52 W14 | 15°48 | 14°59 | 14°37 | 27°15 | 19°28 | 4°59 | 9°41 | 27°29 | 27°32 | 4°48 | 16° 5 | 28° 9 | 23°58'46 | 15 30 33 | W14 |
| S 17 15 42 22 26°51'57 6Π20 19°12 8°12 29°13 28°11 9°28 5° 9 19°32 27°17 14° 0 14°49 16° 8 S 18 15 46 19 27°49'38 19°31 20° 7 9°20 29°47 28°25 9°24 5°13 19°33 27°18 13°50 14°46 16°15 M19 15 50 15 28°47'18 2©54 20°57 10°27 0Q21 28°40 9°19 5°16 19°34 27°19 13°42 14°43 16°21 T 20 15 54 12 29°44'56 16°28 21°42 11°34 0°55 28°54 9°15 5°20 19°35 27°20 13°36 14°40 16°28 W21 15 58 9 0Щ42'33 0Q10 22°24 12°42 1°29 29° 8 9°11 5°24 19°36 27°21 13°34 14°36 16°35 T 22 16 2 5 1°40'08 14° 1 23° 1 13°49 2° 3 29°22 9° 6 5°27 19°37 27°22 13°D33 14°33 16°48 | 16°57 T 15 | 15°55 | 14°56 | 14°25 | 27°16 | 19°29 | 5° 2 | 9°36 | 27°43 | 28° 6 | 5°56 | 17°12 | 10 8 38 | 24°56'31 | 15 34 29 | T 15 |
| S 18 15 46 19 27°49'38 19°31 20° 7 9°20 29°47 28°25 9°24 5°13 19°33 27°18 13°50 14°46 16°15 M19 15 50 15 28°47'18 2©54 20°57 10°27 0Q21 28°40 9°19 5°16 19°34 27°19 13°42 14°43 16°21 T 20 15 54 12 29°44'56 16°28 21°42 11°34 0°55 28°54 9°15 5°20 19°35 27°20 13°36 14°40 16°28 W21 15 58 9 0Щ42'33 0Q10 22°24 12°42 1°29 29° 8 9°11 5°24 19°36 27°21 13°34 14°36 16°35 T 22 16 2 5 1°40'08 14° 1 23° 1 13°49 2° 3 29°22 9° 6 5°27 19°37 27°22 13°D33 14°33 16°41 F 23 16 6 2 2°37'42 28° 1 23°33 14°56 2°37 29°36 9° 2 5°31 19°38 27°23 13°R34 14°30 16°48 < | 17° 2 F 16 | 16° 1 | 14°52 | 14°12 | 27°16 | 19°30 | 5° 6 | 9°32 | 27°57 | 28°40 | 7° 4 | 18°14 | 23°22 | 25°54'15 | 15 38 26 | F 16 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 17° 8 S 17 | 16° 8 | 14°49 | 14° 0 | 27°17 | 19°32 | 5° 9 | 9°28 | 28°11 | 29°13 | 8°12 | 19°12 | 6 Ⅱ 20 | 26°51'57 | 15 42 22 | S 17 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 17°13 S 18 | 16°15 | 14°46 | 13°50 | 27°18 | 19°33 | | 9°24 | 28°25 | 29°47 | 9°20 | 20° 7 | 19°31 | 27°49'38 | 15 46 19 | S 18 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 17°18 M19 | 16°21 | 14°43 | 13°42 | 27°19 | 19°34 | 5°16 | 9°19 | 28°40 | $0\Omega 21$ | 10°27 | 20°57 | 2954 | 28°47'18 | 15 50 15 | M19 |
| T 22 16 2 5 1°40′08 14° 1 23° 1 13°49 2° 3 29°22 9° 6 5°27 19°37 27°22 13°D33 14°33 16°41 F 23 16 6 2 2°37′42 28° 1 23°33 14°56 2°37 29°36 9° 2 5°31 19°38 27°23 13°R34 14°30 16°48 | 17°23 T 20 | 16°28 | 14°40 | 13°36 | 27°20 | 19°35 | 5°20 | 9°15 | 28°54 | 0°55 | 11°34 | 21°42 | 16°28 | 29°44'56 | 15 54 12 | T 20 |
| F 23 16 6 2 2°37'42 28° 1 23°33 14°56 2°37 29°36 9° 2 5°31 19°38 27°23 13°R34 14°30 16°48 | 17°29 W21 | 16°35 | 14°36 | 13°34 | 27°21 | 19°36 | 5°24 | 9°11 | 29° 8 | 1°29 | 12°42 | 22°24 | $0\Omega 10$ | 0 Ⅱ 42'33 | 15 58 9 | W21 |
| | 17°34 T 22 | 16°41 | 14°33 | 13°D33 | 27°22 | 19°37 | 5°27 | 9° 6 | 29°22 | 2° 3 | 13°49 | 23° 1 | 14° 1 | 1°40'08 | 16 2 5 | T 22 |
| | 17°39 F 23 | 16°48 | 14°30 | 13°R34 | 27°23 | 19°38 | 5°31 | 9° 2 | 29°36 | 2°37 | 14°56 | 23°33 | 28° 1 | 2°37'42 | 16 6 2 | F 23 |
| 8 24 16 9 58 3°35'14 12m 8 24° 1 16° 2 3°11 29°50 8°57 5°34 19°39 27°25 13°33 14°27 16°55 | 17°45 S 24 | 16°55 | 14°27 | 13°33 | 27°25 | 19°39 | 5°34 | 8°57 | 29°50 | 3°11 | 16° 2 | 24° 1 | 12Mm 8 | 3°35'14 | 16 9 58 | S 24 |
| " = " " | 17°50 S 25 | 17° 1 | 14°24 | 13°32 | 27°26 | 19°40 | | | 0 I 4 | 3°46 | 17° 9 | 24°25 | 26°22 | 4°32'45 | 16 13 55 | S 25 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 17°56 M26 | 17° 8 | 14°21 | 13°28 | 27°27 | 19°41 | 5°41 | 8°48 | 0°18 | 4°20 | 18°15 | 24°44 | 10 ≏ 41 | 5°30'15 | 16 17 51 | M26 |
| T 27 16 21 48 6°27'43 25° 1 24°58 19°21 4°54 0°32 8°44 5°45 19°41 27°28 13°21 14°17 17°15 | 18° 1 T 27 | 17°15 | 14°17 | 13°21 | 27°28 | 19°41 | 5°45 | 8°44 | 0°32 | 4°54 | 19°21 | 24°58 | 25° 1 | 6°27'43 | 16 21 48 | T 27 |
| W28 16 25 44 7°25'10 9ML19 25° 7 20°27 5°29 0°46 8°40 5°48 19°42 27°29 13°13 14°14 17°21 | 18° 6 W28 | 17°21 | 14°14 | 13°13 | 27°29 | 19°42 | 5°48 | 8°40 | 0°46 | 5°29 | 20°27 | 25° 7 | 9 M _19 | 7°25'10 | 16 25 44 | W28 |
| | 18°12 T 29 | 17°28 | | 13° 3 | 27°30 | 19°43 | 5°52 | 8°35 | 1° 0 | 6° 3 | 21°33 | 25°12 | 23°29 | 8°22'36 | 16 29 41 | |
| | 18°17 F 30 | 17°35 | 14° 8 | 12°53 | 27°31 | | | 8°31 | | 6°38 | 22°38 | | 7 .₹ 25 | 9°20'01 | 16 33 38 | F 30 |
| S 31 16 37 34 10Ⅲ17′25 21🗗 4 25Ⅲ 8 23©44 7Ω12 1Ⅲ28 8🗗26 5Ⅲ59 19¥44 27©33 12∞44 14∞ 5 17¥41 | 18 II 23 S 31 | 17) (41 | 14≈ 5 | 12≈44 | 27933 | 19) (44 | 5 Ⅱ 59 | 8 ₹ 26 | 1Ⅲ28 | 7 Ω 12 | 239544 | 25 II 8 | 21 🗷 4 | 10 Ⅲ 17'25 | 16 37 34 | S 31 |

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|------|----------|-------------------|-----------------|----------------|----------------|----------------|---------------|---------------|----------------|------------------|--------|----------------|----------------|------------------|----------------|------|
| S 1 | 16 41 31 | 11 Ⅱ 14'48 | 4 る 22 | 25°R 0 | 249549 | 7 Ω 47 | 1∏42 | 8°R22 | 6 I I 2 | 19) (45 | 27934 | 12°R36 | 14≈ 2 | 17) (48 | 18 Ⅲ 28 | S 1 |
| M 2 | 16 45 27 | 12°12'10 | 17°20 | 24∏47 | 25°54 | 8°22 | 1°56 | 8 ∡ 17 | 6° 6 | 19°46 | 27°35 | 12 ≈ 31 | 13°58 | 17°55 | 18°34 | M 2 |
| T 3 | 16 49 24 | 13° 9'32 | 29°56 | 24°30 | 26°59 | 8°56 | 2°10 | 8°13 | 6° 9 | 19°46 | 27°36 | 12°28 | 13°55 | 18° 1 | 18°39 | T 3 |
| W 4 | 16 53 20 | 14° 6'53 | 12 ≈ 14 | 24°10 | 28° 3 | 9°31 | 2°24 | 8° 9 | 6°13 | 19°47 | 27°38 | 12°D27 | 13°52 | 18° 8 | 18°45 | W 4 |
| T 5 | 16 57 17 | 15° 4'13 | 24°19 | 23°46 | 29° 7 | 10° 6 | 2°38 | 8° 4 | 6°16 | 19°48 | 27°39 | 12°28 | 13°49 | 18°15 | 18°50 | T 5 |
| F 6 | 17 1 14 | 16° 1'33 | 6) €13 | 23°20 | 0Ω11 | 10°41 | 2°52 | 8° 0 | 6°20 | 19°48 | 27°40 | 12°29 | 13°46 | 18°21 | 18°56 | F 6 |
| S 7 | 17 5 10 | 16°58'53 | 18° 4 | 22°51 | 1°15 | 11°16 | 3° 6 | 7°55 | 6°23 | 19°49 | 27°42 | 12°R29 | 13°42 | 18°28 | 19° 1 | S 7 |
| S 8 | 17 9 7 | 17°56'12 | 29°55 | 22°19 | 2°19 | 11°51 | 3°20 | 7°51 | 6°27 | 19°49 | 27°43 | 12°28 | 13°39 | 18°35 | 19° 7 | S 8 |
| M 9 | 17 13 3 | 18°53'30 | 11 Y 52 | 21°47 | 3°22 | 12°26 | 3°33 | 7°47 | 6°30 | 19°50 | 27°44 | 12°26 | 13°36 | 18°41 | 19°12 | M 9 |
| T 10 | 17 17 0 | 19°50'48 | 23°59 | 21°13 | 4°25 | 13° 1 | 3°47 | 7°42 | 6°34 | 19°50 | 27°46 | 12°21 | 13°33 | 18°48 | 19°18 | T 10 |
| W11 | 17 20 56 | 20°48'06 | 6821 | 20°39 | 5°28 | 13°36 | 4° 1 | 7°38 | 6°37 | 19°50 | 27°47 | 12°14 | 13°30 | 18°55 | 19°23 | W11 |
| T 12 | 17 24 53 | 21°45'24 | 18°59 | 20° 5 | 6°31 | 14°12 | 4°15 | 7°34 | 6°41 | 19°51 | 27°48 | 12° 6 | 13°27 | 19° 2 | 19°29 | T 12 |
| F 13 | 17 28 49 | 22°42'41 | 1 II 56 | 19°32 | 7°33 | 14°47 | 4°29 | 7°30 | 6°44 | 19°51 | 27°50 | 11°58 | 13°23 | 19° 8 | 19°34 | F 13 |
| S 14 | 17 32 46 | 23°39'58 | 15°12 | 19° 1 | 8°35 | 15°22 | 4°42 | 7°25 | 6°48 | 19°51 | 27°51 | 11°50 | 13°20 | 19°15 | 19°40 | S 14 |
| S 15 | 17 36 43 | 24°37'14 | 28°44 | 18°31 | 9°36 | 15°58 | 4°56 | 7°21 | 6°51 | 19°51 | 27°53 | 11°43 | 13°17 | 19°22 | 19°45 | S 15 |
| M16 | 17 40 39 | 25°34'30 | 12931 | 18° 3 | 10°38 | 16°33 | 5° 9 | 7°17 | 6°54 | 19°52 | 27°54 | 11°37 | 13°14 | 19°28 | 19°51 | M16 |
| T 17 | 17 44 36 | 26°31'45 | 26°29 | 17°39 | 11°39 | 17° 9 | 5°23 | 7°13 | 6°58 | 19°52 | 27°56 | 11°35 | 13°11 | 19°35 | 19°56 | T 17 |
| W18 | 17 48 32 | 27°29'00 | 10 Ω 35 | 17°18 | 12°40 | 17°44 | 5°37 | 7° 9 | 7° 1 | 19°52 | 27°57 | 11°D34 | 13° 8 | 19°42 | 20° 2 | W18 |
| T 19 | 17 52 29 | 28°26'14 | 24°45 | 17° 0 | 13°40 | 18°20 | 5°50 | 7° 5 | 7° 5 | 19°52 | 27°59 | 11°34 | 13° 4 | 19°48 | 20° 7 | T 19 |
| F 20 | 17 56 25 | 29°23'28 | 8 m) 57 | 16°46 | 14°40 | 18°55 | 6° 4 | 7° 1 | 7° 8 | 19°52 | 28° 0 | 11°35 | 13° 1 | 19°55 | 20°13 | F 20 |
| S 21 | 18 0 22 | 09520'41 | 23°10 | 16°37 | 15°40 | 19°31 | 6°17 | 6°57 | 7°11 | 19°52 | 28° 2 | 11°36 | 12°58 | 20° 2 | 20°18 | S 21 |
| S 22 | 18 4 18 | 1°17'53 | 7 ≙ 20 | 16°32 | 16°39 | 20° 7 | 6°30 | 6°53 | 7°14 | 19°R52 | 28° 3 | 11°R36 | 12°55 | 20° 8 | 20°24 | S 22 |
| M23 | 18 8 15 | 2°15'05 | 21°27 | 16°D31 | 17°38 | 20°42 | 6°44 | 6°50 | 7°18 | 19°52 | 28° 5 | 11°35 | 12°52 | 20°15 | 20°29 | M23 |
| T 24 | 18 12 12 | 3°12'16 | 5 M 28 | 16°36 | 18°36 | 21°18 | 6°57 | 6°46 | 7°21 | 19°52 | 28° 6 | 11°32 | 12°48 | 20°22 | 20°35 | T 24 |
| W25 | 18 16 8 | 4° 9'27 | 19°21 | 16°45 | 19°35 | 21°54 | 7°10 | 6°42 | 7°24 | 19°52 | 28° 8 | 11°27 | 12°45 | 20°28 | 20°40 | W25 |
| T 26 | 18 20 5 | 5° 6'38 | 3 √ 4 | 16°59 | 20°32 | 22°30 | 7°24 | 6°39 | 7°28 | 19°52 | 28° 9 | 11°22 | 12°42 | 20°35 | 20°46 | T 26 |
| F 27 | 18 24 1 | 6° 3'49 | 16°34 | 17°18 | 21°30 | 23° 6 | 7°37 | 6°35 | 7°31 | 19°52 | 28°11 | 11°16 | 12°39 | 20°42 | 20°51 | F 27 |
| S 28 | 18 27 58 | 7° 0'59 | 29°50 | 17°42 | 22°26 | 23°42 | 7°50 | 6°31 | 7°34 | 19°51 | 28°13 | 11°11 | 12°36 | 20°48 | 20°57 | S 28 |
| S 29 | 18 31 54 | 7°58'10 | 12 궁 50 | 18°11 | 23°23 | 24°18 | 8° 3 | 6°28 | 7°37 | 19°51 | 28°14 | 11° 7 | 12°33 | 20°55 | 21° 2 | S 29 |
| M30 | 18 35 51 | 8955'20 | 25 る 33 | 18 Ⅱ 45 | 24 Ω 18 | 24 Q 54 | 8 П 16 | 6 х 25 | 7 Ⅱ 40 | 19 米 51 | 289516 | 11≈ 4 | 12 ≈ 29 | 21 米 2 | 21 II 7 | M30 |

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JULY 1692 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| \f | В | IJ | င | Ç | ę, | Day |
|------|----------|--------------------|----------------|---------------|-----------------|----------------|-------|---------------|----------------|----------------|--------|--------|-------|----------------|-----------------|------|
| T 1 | 18 39 47 | 9952'30 | 8≈ 0 | 19∏23 | 25 Ω 14 | 25€30 | 8П29 | 6°R21 | 7 Ⅱ 43 | 19°R51 | 289517 | 11°D 3 | 12≈26 | 21 米 8 | 21 I I13 | T 1 |
| W 2 | 18 43 44 | 10°49'41 | 20°13 | 20° 7 | 26° 9 | 26° 7 | 8°42 | 6 √ 18 | 7°47 | 19 米 50 | 28°19 | 11≈ 4 | 12°23 | 21°15 | 21°18 | W 2 |
| T 3 | 18 47 41 | 11°46'52 | 2 ∺ 15 | 20°55 | 27° 3 | 26°43 | 8°55 | 6°15 | 7°50 | 19°50 | 28°21 | 11° 5 | 12°20 | 21°22 | 21°23 | T 3 |
| F 4 | 18 51 37 | 12°44'03 | 14° 9 | 21°48 | 27°57 | 27°19 | 9° 7 | 6°12 | 7°53 | 19°50 | 28°22 | 11° 7 | 12°17 | 21°28 | 21°29 | F 4 |
| S 5 | 18 55 34 | 13°41'14 | 26° 0 | 22°46 | 28°50 | 27°55 | 9°20 | 6° 9 | 7°56 | 19°49 | 28°24 | 11° 8 | 12°14 | 21°35 | 21°34 | S 5 |
| S 6 | 18 59 30 | 14°38'26 | 7 Υ 51 | 23°48 | 29°43 | 28°32 | 9°33 | 6° 6 | 7°59 | 19°49 | 28°26 | 11° 9 | 12°10 | 21°42 | 21°39 | S 6 |
| M 7 | 19 3 27 | 15°35'39 | 19°49 | 24°55 | 0 m 35 | 29° 8 | 9°46 | 6° 3 | 8° 2 | 19°48 | 28°27 | 11°R 9 | 12° 7 | 21°48 | 21°44 | M 7 |
| T 8 | 19 7 23 | 16°32'51 | 1 8 57 | 26° 6 | 1°26 | 29°45 | 9°58 | 6° 0 | 8° 5 | 19°48 | 28°29 | 11°8 | 12° 4 | 21°55 | 21°50 | T 8 |
| W 9 | 19 11 20 | 17°30'05 | 14°20 | 27°22 | 2°17 | 0 Mp 21 | 10°11 | 5°57 | 8° 8 | 19°47 | 28°31 | 11° 7 | 12° 1 | 22° 2 | 21°55 | W 9 |
| T 10 | 19 15 16 | 18°27'19 | 27° 2 | 28°42 | 3° 7 | 0°58 | 10°23 | 5°54 | 8°10 | 19°47 | 28°32 | 11° 4 | 11°58 | 22° 8 | 22° 0 | T 10 |
| F 11 | 19 19 13 | 19°24'34 | 10 I 6 | 0න 6 | 3°56 | 1°34 | 10°36 | 5°52 | 8°13 | 19°46 | 28°34 | 11° 1 | 11°54 | 22°15 | 22° 5 | F 11 |
| S 12 | 19 23 10 | 20°21'50 | 23°31 | 1°35 | 4°45 | 2°11 | 10°48 | 5°49 | 8°16 | 19°46 | 28°36 | 10°58 | 11°51 | 22°22 | 22°10 | S 12 |
| S 13 | 19 27 6 | 21°19'06 | 79 519 | 3° 7 | 5°33 | 2°48 | 11° 0 | 5°47 | 8°19 | 19°45 | 28°37 | 10°55 | 11°48 | 22°28 | 22°15 | S 13 |
| M14 | 19 31 3 | 22°16'22 | 21°26 | 4°44 | 6°20 | 3°25 | 11°12 | 5°44 | 8°22 | 19°44 | 28°39 | 10°53 | 11°45 | 22°35 | 22°20 | M14 |
| T 15 | 19 34 59 | 23°13'39 | 5 Ω 48 | 6°24 | 7° 6 | 4° 1 | 11°24 | 5°42 | 8°24 | 19°44 | 28°41 | 10°D53 | 11°42 | 22°42 | 22°25 | T 15 |
| W16 | 19 38 56 | 24°10'56 | 20°19 | 8° 8 | 7°52 | 4°38 | 11°36 | 5°40 | 8°27 | 19°43 | 28°42 | 10°53 | 11°39 | 22°49 | 22°30 | W16 |
| T 17 | 19 42 52 | 25° 8'14 | 4 Mp 55 | 9°55 | 8°36 | 5°15 | 11°48 | 5°38 | 8°30 | 19°42 | 28°44 | 10°54 | 11°35 | 22°55 | 22°35 | T 17 |
| F 18 | 19 46 49 | 26° 5'32 | 19°29 | 11°46 | 9°20 | 5°52 | 12° 0 | 5°36 | 8°33 | 19°41 | 28°46 | 10°55 | 11°32 | 23° 2 | 22°40 | F 18 |
| S 19 | 19 50 46 | 27° 2'51 | 3 ≙ 57 | 13°39 | 10° 3 | 6°29 | 12°12 | 5°34 | 8°35 | 19°40 | 28°47 | 10°56 | 11°29 | 23° 9 | 22°45 | S 19 |
| S 20 | 19 54 42 | 28° 0'09 | 18°15 | 15°35 | 10°45 | 7° 6 | 12°24 | 5°32 | 8°38 | 19°40 | 28°49 | 10°56 | 11°26 | 23°15 | 22°50 | S 20 |
| M21 | 19 58 39 | 28°57'29 | 2 M 20 | 17°33 | 11°25 | 7°43 | 12°36 | 5°30 | 8°40 | 19°39 | 28°51 | 10°R56 | 11°23 | 23°22 | 22°55 | M21 |
| T 22 | 20 2 35 | 29°54'48 | 16°10 | 19°34 | 12° 5 | 8°20 | 12°47 | 5°28 | 8°43 | 19°38 | 28°52 | 10°56 | 11°20 | 23°29 | 23° 0 | T 22 |
| W23 | 20 6 32 | 0 Ω 52'08 | 29°46 | 21°36 | 12°44 | 8°57 | 12°59 | 5°27 | 8°45 | 19°37 | 28°54 | 10°55 | 11°16 | 23°35 | 23° 4 | W23 |
| T 24 | 20 10 28 | 1°49'29 | 13 × 8 | 23°39 | 13°21 | 9°35 | 13°10 | 5°25 | 8°48 | 19°36 | 28°56 | 10°54 | 11°13 | 23°42 | 23° 9 | T 24 |
| F 25 | 20 14 25 | 2°46'50 | 26°14 | 25°44 | 13°57 | 10°12 | 13°21 | 5°24 | 8°50 | 19°35 | 28°57 | 10°53 | 11°10 | 23°49 | 23°14 | F 25 |
| S 26 | 20 18 21 | 3°44'12 | 9 ප 6 | 27°49 | 14°32 | 10°49 | 13°33 | 5°23 | 8°53 | 19°34 | 28°59 | 10°52 | 11° 7 | 23°55 | 23°18 | S 26 |
| S 27 | 20 22 18 | 4°41'35 | 21°45 | 29°55 | 15° 6 | 11°27 | 13°44 | 5°21 | 8°55 | 19°33 | 29° 1 | 10°51 | 11° 4 | 24° 2 | 23°23 | S 27 |
| M28 | 20 26 15 | 5°38'58 | 4≈11 | 2Ω 0 | 15°39 | 12° 4 | 13°55 | 5°20 | 8°57 | 19°32 | 29° 3 | 10°51 | 11° 0 | 24° 9 | 23°28 | M28 |
| T 29 | 20 30 11 | 6°36'22 | 16°26 | 4° 6 | 16°10 | 12°41 | 14° 6 | 5°19 | 8°59 | 19°31 | 29° 4 | 10°D51 | 10°57 | 24°15 | 23°32 | T 29 |
| W30 | 20 34 8 | 7°33'48 | 28°31 | 6°11 | 16°39 | 13°19 | 14°17 | 5°18 | 9° 2 | 19°30 | 29° 6 | 10°51 | 10°54 | 24°22 | 23°37 | W30 |
| T 31 | 20 38 4 | 8 Ω 31'14 | 10 ∺ 29 | 8 Ω 15 | 17 m y 7 | 13 m 56 | 14∏28 | 5 ∡ 17 | 9 I I 4 | 19 米 28 | 2995 8 | 10≈52 | 10≈51 | 24 米 29 | 23 Ⅱ 41 | T 31 |

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|------|----------|------------------|------------------|----------------|-----------------|---------------|----------------|---------------|---------------|------------------|--------|--------|-------|-----------------|-----------------|------|
| F 1 | 20 42 1 | 9 Ω 28'41 | 22) (21 | 10 Ω 19 | 17 m)34 | 14 Mp 34 | 14 Ⅲ 38 | 5°R17 | 9 I 6 | 19°R27 | 2995 9 | 10≈52 | 10≈48 | 24) (35 | 23 II 45 | F 1 |
| S 2 | 20 45 57 | 10°26'10 | 4Υ 11 | 12°21 | 17°59 | 15°11 | 14°49 | 5 ₹ 16 | 9°8 | 19 ∺ 26 | 29°11 | 10°R52 | 10°45 | 24°42 | 23°50 | S 2 |
| S 3 | 20 49 54 | 11°23'40 | 16° 2 | 14°23 | 18°22 | 15°49 | 15° 0 | 5°15 | 9°10 | 19°25 | 29°13 | 10°52 | 10°41 | 24°49 | 23°54 | S 3 |
| M 4 | 20 53 50 | 12°21'11 | 27°59 | 16°23 | 18°44 | 16°27 | 15°10 | 5°15 | 9°12 | 19°24 | 29°14 | 10°52 | 10°38 | 24°55 | 23°58 | M 4 |
| T 5 | 20 57 47 | 13°18'43 | 108 6 | 18°23 | 19° 3 | 17° 5 | 15°20 | 5°14 | 9°14 | 19°22 | 29°16 | 10°D52 | 10°35 | 25° 2 | 24° 3 | T 5 |
| W 6 | 21 1 44 | 14°16'17 | 22°27 | 20°20 | 19°21 | 17°42 | 15°30 | 5°14 | 9°16 | 19°21 | 29°18 | 10°52 | 10°32 | 25° 9 | 24° 7 | W 6 |
| T 7 | 21 5 40 | 15°13'53 | 5 I 7 | 22°17 | 19°37 | 18°20 | 15°41 | 5°14 | 9°18 | 19°20 | 29°19 | 10°52 | 10°29 | 25°16 | 24°11 | T 7 |
| F 8 | 21 9 37 | 16°11'30 | 18° 9 | 24°12 | 19°52 | 18°58 | 15°51 | 5°D14 | 9°20 | 19°19 | 29°21 | 10°52 | 10°26 | 25°22 | 24°15 | F 8 |
| S 9 | 21 13 33 | 17° 9'09 | 1935 | 26° 5 | 20° 4 | 19°36 | 16° 0 | 5°14 | 9°22 | 19°17 | 29°22 | 10°53 | 10°22 | 25°29 | 24°19 | S 9 |
| S 10 | 21 17 30 | 18° 6'49 | 15°28 | 27°58 | 20°14 | 20°14 | 16°10 | 5°14 | 9°23 | 19°16 | 29°24 | 10°54 | 10°19 | 25°36 | 24°23 | S 10 |
| M11 | 21 21 26 | 19° 4'30 | 29°44 | 29°48 | 20°22 | 20°52 | 16°20 | 5°14 | 9°25 | 19°15 | 29°26 | 10°54 | 10°16 | 25°42 | 24°27 | M11 |
| T 12 | 21 25 23 | 20° 2'13 | $14\Omega 22$ | 1 m 38 | 20°28 | 21°30 | 16°29 | 5°14 | 9°27 | 19°13 | 29°27 | 10°R54 | 10°13 | 25°49 | 24°31 | T 12 |
| W13 | 21 29 19 | 20°59'57 | 29°14 | 3°26 | 20°31 | 22° 8 | 16°39 | 5°15 | 9°28 | 19°12 | 29°29 | 10°54 | 10°10 | 25°56 | 24°34 | W13 |
| T 14 | 21 33 16 | 21°57'42 | 14 M p 14 | 5°12 | 20°R32 | 22°46 | 16°48 | 5°15 | 9°30 | 19°10 | 29°31 | 10°53 | 10° 6 | 26° 2 | 24°38 | T 14 |
| F 15 | 21 37 13 | 22°55'29 | 29°12 | 6°57 | 20°31 | 23°25 | 16°57 | 5°16 | 9°32 | 19° 9 | 29°32 | 10°52 | 10° 3 | 26° 9 | 24°42 | F 15 |
| S 16 | 21 41 9 | 23°53'17 | 14 ₾ 1 | 8°41 | 20°28 | 24° 3 | 17° 7 | 5°17 | 9°33 | 19° 7 | 29°34 | 10°50 | 10° 0 | 26°16 | 24°45 | S 16 |
| S 17 | 21 45 6 | 24°51'06 | 28°34 | 10°23 | 20°22 | 24°41 | 17°16 | 5°17 | 9°34 | 19° 6 | 29°35 | 10°49 | 9°57 | 26°22 | 24°49 | S 17 |
| M18 | 21 49 2 | 25°48'56 | 12 M 47 | 12° 4 | 20°14 | 25°20 | 17°24 | 5°18 | 9°36 | 19° 5 | 29°37 | 10°48 | 9°54 | 26°29 | 24°53 | M18 |
| T 19 | 21 52 59 | 26°46'47 | 26°37 | 13°43 | 20° 4 | 25°58 | 17°33 | 5°19 | 9°37 | 19° 3 | 29°38 | 10°D47 | 9°51 | 26°36 | 24°56 | T 19 |
| W20 | 21 56 55 | 27°44'40 | 10 × 6 | 15°21 | 19°51 | 26°37 | 17°42 | 5°20 | 9°39 | 19° 2 | 29°40 | 10°48 | 9°47 | 26°42 | 24°59 | W20 |
| T 21 | 22 0 52 | 28°42'34 | 23°14 | 16°58 | 19°36 | 27°15 | 17°50 | 5°22 | 9°40 | 19° 0 | 29°41 | 10°49 | 9°44 | 26°49 | 25° 3 | T 21 |
| F 22 | 22 4 48 | 29°40'29 | 6 ප 4 | 18°33 | 19°18 | 27°54 | 17°58 | 5°23 | 9°41 | 18°58 | 29°43 | 10°50 | 9°41 | 26°56 | 25° 6 | F 22 |
| S 23 | 22 8 45 | 0 m 38′26 | 18°39 | 20° 8 | 18°58 | 28°32 | 18° 7 | 5°24 | 9°42 | 18°57 | 29°44 | 10°52 | 9°38 | 27° 2 | 25° 9 | S 23 |
| S 24 | 22 12 42 | 1°36'23 | 1≈ 0 | 21°40 | 18°36 | 29°11 | 18°15 | 5°26 | 9°43 | 18°55 | 29°46 | 10°53 | 9°35 | 27° 9 | 25°12 | S 24 |
| M25 | 22 16 38 | 2°34'23 | 13°11 | 23°12 | 18°12 | 29°50 | 18°23 | 5°27 | 9°44 | 18°54 | 29°47 | 10°R53 | 9°32 | 27°16 | 25°15 | M25 |
| T 26 | 22 20 35 | 3°32'24 | 25°14 | 24°42 | 17°46 | 0 ჲ 28 | 18°30 | 5°29 | 9°45 | 18°52 | 29°49 | 10°52 | 9°28 | 27°23 | 25°18 | T 26 |
| W27 | 22 24 31 | 4°30'26 | 7 ∺ 11 | 26°11 | 17°18 | 1° 7 | 18°38 | 5°31 | 9°46 | 18°51 | 29°50 | 10°50 | 9°25 | 27°29 | 25°21 | W27 |
| T 28 | 22 28 28 | 5°28'30 | 19° 4 | 27°38 | 16°48 | 1°46 | 18°46 | 5°32 | 9°47 | 18°49 | 29°52 | 10°47 | 9°22 | 27°36 | 25°24 | T 28 |
| F 29 | 22 32 24 | 6°26'36 | 0 Υ 54 | 29° 4 | 16°16 | 2°25 | 18°53 | 5°34 | 9°48 | 18°47 | 29°53 | 10°43 | 9°19 | 27°43 | 25°27 | F 29 |
| S 30 | 22 36 21 | 7°24'43 | 12°45 | 0 ≏ 29 | 15°43 | 3° 4 | 19° 0 | 5°36 | 9°49 | 18°46 | 29°55 | 10°39 | 9°16 | 27°49 | 25°30 | S 30 |
| S 31 | 22 40 17 | 8 m 22'53 | 24 Y 38 | 1 ≏ 52 | 15 m 9 | 3 ≏ 43 | 19耳 7 | 5 ₹ 38 | 9 耳 50 | 18) (44 | 29956 | 10≈34 | 9≈12 | 27 米 56 | 25 Ⅲ 33 | S 31 |

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SEPTEMBER 1692 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)Å(| ¥ | Р | v | ß | Ç | ę k | Day |
|------|----------|------------------|-----------------|---------------|----------------|----------------|-----------------|----------------|-------|----------------|------------------|--------|------|---------------|----------------|------|
| M 1 | 22 44 14 | 9 m 21'04 | 6 8 36 | 3 ≏ 14 | 14°R34 | 4 ₽ 22 | 19 Ⅱ 14 | 5 √ 41 | 9∏50 | 18°R43 | 29957 | 10°R30 | 9≈ 9 | 28) 3 | 25耳35 | M 1 |
| T 2 | 22 48 11 | 10°19'18 | 18°42 | 4°35 | 13 m 58 | 5° 1 | 19°21 | 5°43 | 9°51 | 18) 41 | 29°59 | 10≈27 | 9° 6 | 28° 9 | 25°38 | T 2 |
| W 3 | 22 52 7 | 11°17'33 | 1 I 1 | 5°54 | 13°21 | 5°40 | 19°28 | 5°45 | 9°52 | 18°39 | 0 Ω 0 | 10°25 | 9° 3 | 28°16 | 25°40 | W 3 |
| T 4 | 22 56 4 | 12°15'51 | 13°37 | 7°11 | 12°44 | 6°19 | 19°34 | 5°48 | 9°52 | 18°38 | 0° 1 | 10°D24 | 9° 0 | 28°23 | 25°43 | T 4 |
| F 5 | 23 0 0 | 13°14'11 | 26°33 | 8°27 | 12° 7 | 6°58 | 19°40 | 5°50 | 9°53 | 18°36 | 0° 3 | 10°25 | 8°57 | 28°29 | 25°45 | F 5 |
| S 6 | 23 3 57 | 14°12'33 | 9953 | 9°41 | 11°30 | 7°38 | 19°46 | 5°53 | 9°53 | 18°34 | 0° 4 | 10°26 | 8°53 | 28°36 | 25°47 | S 6 |
| S 7 | 23 7 53 | 15°10'57 | 23°39 | 10°54 | 10°53 | 8°17 | 19°52 | 5°56 | 9°54 | 18°33 | 0° 5 | 10°28 | 8°50 | 28°43 | 25°49 | S 7 |
| M 8 | 23 11 50 | 16° 9'23 | 7 Ω 53 | 12° 4 | 10°17 | 8°56 | 19°58 | 5°59 | 9°54 | 18°31 | 0° 6 | 10°R29 | 8°47 | 28°50 | 25°51 | M 8 |
| T 9 | 23 15 46 | 17° 7'51 | 22°32 | 13°13 | 9°42 | 9°36 | 20° 4 | 6° 2 | 9°54 | 18°29 | 0° 8 | 10°28 | 8°44 | 28°56 | 25°54 | T 9 |
| W10 | 23 19 43 | 18° 6'21 | 7 ™ 32 | 14°20 | 9° 8 | 10°15 | 20° 9 | 6° 5 | 9°54 | 18°28 | 0° 9 | 10°26 | 8°41 | 29° 3 | 25°55 | W10 |
| T 11 | 23 23 40 | 19° 4'53 | 22°45 | 15°24 | 8°35 | 10°55 | 20°15 | 6° 8 | 9°55 | 18°26 | 0°10 | 10°22 | 8°38 | 29°10 | 25°57 | T 11 |
| F 12 | 23 27 36 | 20° 3'27 | 8 亚 0 | 16°27 | 8° 4 | 11°34 | 20°20 | 6°11 | 9°55 | 18°24 | 0°11 | 10°17 | 8°34 | 29°16 | 25°59 | F 12 |
| S 13 | 23 31 33 | 21° 2'03 | 23° 7 | 17°27 | 7°34 | 12°14 | 20°25 | 6°14 | 9°55 | 18°23 | 0°13 | 10°11 | 8°31 | 29°23 | 26° 1 | S 13 |
| S 14 | 23 35 29 | 22° 0'41 | 7 M 57 | 18°24 | 7° 6 | 12°54 | 20°30 | 6°17 | 9°R55 | 18°21 | 0°14 | 10° 5 | 8°28 | 29°30 | 26° 3 | S 14 |
| M15 | 23 39 26 | 22°59'20 | 22°23 | 19°18 | 6°40 | 13°33 | 20°34 | 6°21 | 9°55 | 18°19 | 0°15 | 10° 0 | 8°25 | 29°36 | 26° 4 | M15 |
| T 16 | 23 43 22 | 23°58'01 | 6 ₹ 22 | 20°10 | 6°16 | 14°13 | 20°39 | 6°24 | 9°55 | 18°18 | 0°16 | 9°57 | 8°22 | 29°43 | 26° 6 | T 16 |
| W17 | 23 47 19 | 24°56'44 | 19°53 | 20°58 | 5°55 | 14°53 | 20°43 | 6°28 | 9°55 | 18°16 | 0°17 | 9°D55 | 8°18 | 29°50 | 26° 7 | W17 |
| T 18 | 23 51 15 | 25°55'28 | 2 ප 58 | 21°43 | 5°35 | 15°33 | 20°47 | 6°32 | 9°55 | 18°15 | 0°18 | 9°55 | 8°15 | 29°56 | 26° 8 | T 18 |
| F 19 | 23 55 12 | 26°54'15 | 15°41 | 22°24 | 5°18 | 16°13 | 20°51 | 6°35 | 9°54 | 18°13 | 0°19 | 9°56 | 8°12 | 0 Υ 3 | 26°10 | F 19 |
| S 20 | 23 59 9 | 27°53'03 | 28° 5 | 23° 1 | 5° 3 | 16°53 | 20°55 | 6°39 | 9°54 | 18°11 | 0°20 | 9°58 | 8° 9 | 0°10 | 26°11 | S 20 |
| S 21 | 0 3 5 | 28°51'52 | 10≈16 | 23°33 | 4°50 | 17°33 | 20°59 | 6°43 | 9°54 | 18°10 | 0°21 | 9°R58 | 8° 6 | 0°17 | 26°12 | S 21 |
| M22 | 0 7 2 | 29°50'44 | 22°17 | 24° 1 | 4°40 | 18°13 | 21° 2 | 6°47 | 9°53 | 18° 8 | 0°22 | 9°57 | 8° 3 | 0°23 | 26°13 | M22 |
| T 23 | 0 10 58 | 0 ≏ 49'37 | 4) (11 | 24°23 | 4°32 | 18°53 | 21° 5 | 6°51 | 9°53 | 18° 6 | 0°23 | 9°54 | 7°59 | 0°30 | 26°14 | T 23 |
| W24 | 0 14 55 | 1°48'32 | 16° 3 | 24°40 | 4°27 | 19°33 | 21° 8 | 6°56 | 9°53 | 18° 5 | 0°24 | 9°49 | 7°56 | 0°37 | 26°15 | W24 |
| T 25 | 0 18 51 | 2°47'29 | 27°53 | 24°51 | 4°24 | 20°13 | 21°11 | 7° 0 | 9°52 | 18° 3 | 0°25 | 9°41 | 7°53 | 0°43 | 26°16 | T 25 |
| F 26 | 0 22 48 | 3°46'28 | 9 Υ 44 | 24°R55 | 4°D24 | 20°54 | 21°14 | 7° 4 | 9°51 | 18° 2 | 0°26 | 9°32 | 7°50 | 0°50 | 26°16 | F 26 |
| S 27 | 0 26 44 | 4°45'29 | 21°38 | 24°53 | 4°25 | 21°34 | 21°16 | 7° 8 | 9°51 | 18° 0 | 0°27 | 9°21 | 7°47 | 0°57 | 26°17 | S 27 |
| S 28 | 0 30 41 | 5°44'33 | 3 8 36 | 24°43 | 4°30 | 22°14 | 21°18 | 7°13 | 9°50 | 17°59 | 0°28 | 9°10 | 7°43 | 1° 3 | 26°18 | S 28 |
| M29 | 0 34 37 | 6°43'38 | 15°39 | 24°25 | 4°36 | 22°55 | 21°20 | 7°17 | 9°49 | 17°57 | 0°29 | 9° 0 | 7°40 | 1°10 | 26°18 | M29 |
| T 30 | 0 38 34 | 7 ≏ 42'46 | 27 8 51 | 24 <u>♀</u> 0 | 4 Mp 45 | 23 ≏ 35 | 21 II 22 | 7 .₹ 22 | 9∏49 | 17 米 55 | 0 Ω 29 | 8≈52 | 7≈37 | 1 Υ 17 | 26 Ⅱ 18 | T 30 |

Delta T = 17.19 sec

Greg. Calendar

| OCTOBER 1692 GC | 00:00 UT |
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|------|---------|------------------|----------------|----------------|----------|----------------|----------------|----------------|---------------|----------------|---------------|-------|------|---------------|-----------------|------|
| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)Å(| ¥ | В | U | S | Ç | Ŷ, | Day |
| W 1 | 0 42 31 | 8 ≏ 41'56 | 10 Ⅱ 12 | 23°R27 | 4 Mp 56 | 24 <u>₽</u> 16 | 21 Ⅱ 24 | 7 .₹ 27 | 9°R48 | 17°R54 | 0 Ω 30 | 8°R45 | 7≈34 | 1 Y 23 | 26 I I19 | W 1 |
| T 2 | 0 46 27 | 9°41'09 | 22°47 | 22 ≏ 46 | 5° 9 | 24°56 | 21°26 | 7°31 | 9 ∐ 47 | 17 米 52 | 0°31 | 8≈42 | 7°31 | 1°30 | 26°19 | T 2 |
| F 3 | 0 50 24 | 10°40'23 | 5939 | 21°57 | 5°24 | 25°37 | 21°27 | 7°36 | 9°46 | 17°51 | 0°32 | 8°D40 | 7°28 | 1°37 | 26°19 | F 3 |
| S 4 | 0 54 20 | 11°39'41 | 18°51 | 21° 2 | 5°42 | 26°18 | 21°28 | 7°41 | 9°45 | 17°49 | 0°32 | 8°40 | 7°24 | 1°44 | 26°R19 | S 4 |
| S 5 | 0 58 17 | 12°39'00 | 2Ω 27 | 20° 0 | 6° 1 | 26°58 | 21°29 | 7°46 | 9°44 | 17°48 | 0°33 | 8°R41 | 7°21 | 1°50 | 26°19 | S 5 |
| M 6 | 1 2 13 | 13°38'22 | 16°29 | 18°53 | 6°22 | 27°39 | 21°29 | 7°51 | 9°43 | 17°46 | 0°34 | 8°41 | 7°18 | 1°57 | 26°19 | M 6 |
| T 7 | 1 6 10 | 14°37'46 | 0 m 57 | 17°42 | 6°45 | 28°20 | 21°30 | 7°56 | 9°42 | 17°45 | 0°34 | 8°39 | 7°15 | 2° 4 | 26°19 | T 7 |
| W 8 | 1 10 6 | 15°37'12 | 15°49 | 16°30 | 7°10 | 29° 1 | 21°30 | 8° 1 | 9°41 | 17°44 | 0°35 | 8°35 | 7°12 | 2°10 | 26°19 | W 8 |
| T 9 | 1 14 3 | 16°36'41 | 0 ჲ 57 | 15°18 | 7°36 | 29°42 | 21°R30 | 8° 7 | 9°40 | 17°42 | 0°36 | 8°28 | 7° 9 | 2°17 | 26°18 | T 9 |
| F 10 | 1 18 0 | 17°36'11 | 16°13 | 14° 8 | 8° 4 | 0ML23 | 21°30 | 8°12 | 9°38 | 17°41 | 0°36 | 8°18 | 7° 5 | 2°24 | 26°18 | F 10 |
| S 11 | 1 21 56 | 18°35'44 | 1 M 27 | 13° 2 | 8°34 | 1° 4 | 21°30 | 8°17 | 9°37 | 17°39 | 0°37 | 8° 8 | 7° 2 | 2°30 | 26°17 | S 11 |
| S 12 | 1 25 53 | 19°35'19 | 16°26 | 12° 3 | 9° 5 | 1°45 | 21°29 | 8°23 | 9°36 | 17°38 | 0°37 | 7°57 | 6°59 | 2°37 | 26°17 | S 12 |
| M13 | 1 29 49 | 20°34'56 | 1 才 3 | 11°11 | 9°38 | 2°26 | 21°29 | 8°28 | 9°34 | 17°37 | 0°38 | 7°48 | 6°56 | 2°44 | 26°16 | M13 |
| T 14 | 1 33 46 | 21°34'34 | 15°11 | 10°29 | 10°12 | 3° 7 | 21°28 | 8°33 | 9°33 | 17°35 | 0°38 | 7°41 | 6°53 | 2°51 | 26°15 | T 14 |
| W15 | 1 37 42 | 22°34'15 | 2 <u>8</u> °49 | 9°57 | 10°47 | 3°49 | 21°27 | 8°39 | 9°31 | 17°34 | 0°39 | 7°37 | 6°49 | 2°57 | 26°14 | W15 |
| T 16 | 1 41 39 | 23°33'57 | 11 る 58 | 9°36 | 11°24 | 4°30 | 21°25 | 8°45 | 9°30 | 17°33 | 0°39 | 7°34 | 6°46 | 3° 4 | 26°14 | T 16 |
| F 17 | 1 45 35 | 24°33'41 | 24°42 | 9°D27 | 12° 2 | 5°11 | 21°24 | 8°50 | 9°28 | 17°32 | 0°39 | 7°D34 | 6°43 | 3°11 | 26°13 | F 17 |
| S 18 | 1 49 32 | 25°33'26 | 7 ≈ 5 | 9°28 | 12°41 | 5°53 | 21°22 | 8°56 | 9°27 | 17°30 | 0°40 | 7°R34 | 6°40 | 3°17 | 26°11 | S 18 |
| S 19 | 1 53 29 | 26°33'13 | 19°12 | 9°41 | 13°22 | 6°34 | 21°20 | 9° 2 | 9°25 | 17°29 | 0°40 | 7°34 | 6°37 | 3°24 | 26°10 | S 19 |
| M20 | 1 57 25 | 27°33'02 | 1 米 9 | 10° 4 | 14° 3 | 7°16 | 21°18 | 9° 8 | 9°23 | 17°28 | 0°40 | 7°31 | 6°34 | 3°31 | 26° 9 | M20 |
| T 21 | 2 1 22 | 28°32'53 | 13° 0 | 10°37 | 14°46 | 7°57 | 21°16 | 9°14 | 9°22 | 17°27 | 0°41 | 7°27 | 6°30 | 3°37 | 26° 8 | T 21 |
| W22 | 2 5 18 | 29°32'45 | 24°49 | 11°18 | 15°30 | 8°39 | 21°13 | 9°20 | 9°20 | 17°26 | 0°41 | 7°19 | 6°27 | 3°44 | 26° 6 | W22 |
| T 23 | 2 9 15 | 0MJ32'39 | 6 Υ40 | 12° 8 | 16°15 | 9°21 | 21°10 | 9°26 | 9°18 | 17°25 | 0°41 | 7° 9 | 6°24 | 3°51 | 26° 5 | T 23 |
| F 24 | 2 13 11 | 1°32'35 | 18°34 | 13° 5 | 17° 1 | 10° 2 | 21° 7 | 9°32 | 9°16 | 17°24 | 0°41 | 6°56 | 6°21 | 3°58 | 26° 3 | F 24 |
| S 25 | 2 17 8 | 2°32'33 | 0 8 34 | 14° 8 | 17°47 | 10°44 | 21° 4 | 9°38 | 9°14 | 17°22 | 0°42 | 6°42 | 6°18 | 4° 4 | 26° 2 | S 25 |
| S 26 | 2 21 4 | 3°32'33 | 12°41 | 15°17 | 18°35 | 11°26 | 21° 1 | 9°44 | 9°13 | 17°21 | 0°42 | 6°27 | 6°14 | 4°11 | 26° 0 | S 26 |
| M27 | 2 25 1 | 4°32'35 | 24°56 | 16°31 | 19°23 | 12° 8 | 20°57 | 9°50 | 9°11 | 17°20 | 0°42 | 6°14 | 6°11 | 4°18 | 25°58 | M27 |
| T 28 | 2 28 58 | 5°32'39 | 7 Ⅱ 18 | 17°48 | 20°13 | 12°50 | 20°54 | 9°56 | 9° 9 | 17°19 | 0°42 | 6° 2 | 6° 8 | 4°24 | 25°56 | T 28 |
| W29 | 2 32 54 | 6°32'45 | 19°50 | 19°10 | 21° 3 | 13°32 | 20°50 | 10° 2 | 9° 7 | 17°18 | 0°42 | 5°53 | 6° 5 | 4°31 | 25°54 | W29 |
| T 30 | 2 36 51 | 7°32'52 | 2933 | 20°34 | 21°54 | 14°14 | 20°46 | 10° 9 | 9° 5 | 17°18 | 0°42 | 5°47 | 6° 2 | 4°38 | 25°52 | T 30 |
| F 31 | 2 40 47 | 8MJ33'02 | 15929 | 22 º 1 | 22 Mp 46 | 14M56 | 20∏42 | 10 水 15 | 9耳 3 | 17) 17 | 0°R42 | 5≈44 | 5≈59 | 4 Υ 44 | 25 Ⅱ 50 | F 31 |

Delta T = 17.16 sec

NOVEMBER 1692 GC 00:00 UT

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|--------------|--------------------|-------------------------------|------------------------|-------------------------|----------------|-------------------------|----------------|----------------|---------------|----------------|---------------|---------------|--------------|--------------|----------------|--------------|
| S 1 | 2 44 44 | 9 M _33'14 | 289641 | 23 £ 29 | 23 Mp 38 | 15 M 38 | 20°R37 | 10 × 21 | 9°R 1 | 17°R16 | 0°R42 | 5°R43 | 5≈55 | 4 Υ51 | 25°R48 | S 1 |
| S 2 | 2 48 40 | 10°33'29 | 12 Ω 11 | 25° 0 | 24°32 | 16°20 | 20∏33 | 10°28 | 8 Ⅱ 58 | 17) 15 | $0\Omega42$ | 5≈43 | 5°52 | 4°58 | 25∏46 | S 2 |
| M 3 | 2 52 37 | 11°33'45 | 26° 2 | 26°32 | 25°26 | 17° 3 | 20°28 | 10°34 | 8°56 | 17°14 | 0°42 | 5°43 | 5°49 | 5° 5 | 25°44 | M 3 |
| T 4 | 2 56 33 | 12°34'03 | 10 Mp 14 | 28° 5 | 26°20 | 17°45 | 20°23 | 10°41 | 8°54 | 17°13 | 0°42 | 5°40 | 5°46 | 5°11 | 25°41 | T 4 |
| W 5 T 6 | 3 0 30 3 4 27 | 13°34'23 14°34'45 | 24°47 9 Ω 36 | 29°38 1 M -13 | 27°15 28°11 | 18°27 19°10 | 20°18 20°13 | 10°47 10°54 | 8°52 8°50 | 17°13 17°12 | 0°42 0°42 | 5°36 5°28 | 5°43 5°40 | 5°18 5°25 | 25°39 25°36 | W 5 T 6 |
| F 7 | 3 8 23 | 15°35'09 | 24°36 | 2°48 | 29° 8 | 19°52 | 20° 7 | 10°54 | 8°47 | 17°11 | 0°42 | 5°18 | 5°36 | 5°31 | 25°34 | F 7 |
| S 8 | 3 12 20 | 16°35'35 | 9 M 37 | 4°23 | <u>0</u> ර 5 | 20°35 | 20° 1 | 11° 7 | 8°45 | 17°11 | 0°41 | 5° 7 | 5°33 | 5°38 | 25°31 | S 8 |
| S 9 | 3 16 16 | 17°36'03 | 24°29 | 5°59 | 1° 2 | 21°17 | 19°56 | 11°14 | 8°43 | 17°10 | 0°41 | 4°55 | 5°30 | 5°45 | 25°28 | S 9 |
| M10 | 3 20 13 | 18°36'32 | 9 ,₹ 4 | 7°34 | 2° 0 | 22° 0 | 19°50 | 11°21 | 8°40 | 17° 9 | 0°41 | 4°45 | 5°27 | 5°51 | 25°26 | M10 |
| T 11 | 3 24 9 | 19°37'03 | 23°15 | 9°10 | 2°59 | 22°43 | 19°44 | 11°27 | 8°38 | 17° 9 | 0°41 | 4°37 | 5°24 | 5°58 | 25°23 | T 11 |
| W12 | 3 28 6 | 20°37'35 | 6 궁 57 | 10°46 | 3°58 | 23°25 | 19°37 | 11°34 | 8°36 | 17° 8 | 0°40 | 4°31 | 5°20 | 6° 5 | 25°20 | W12 |
| T 13 F 14 | 3 32 2 3 35 59 | 21°38'09 22°38'44 | 20°12 3 ≈ 0 | 12°22 13°58 | 4°58 5°58 | 24° 8 24°51 | 19°31 19°25 | 11°41 11°48 | 8°33 8°31 | 17° 8 17° 7 | 0°40 0°40 | 4°28 4°D27 | 5°17 5°14 | 6°12 6°18 | 25°17 25°14 | T 13 F 14 |
| S 15 | 3 39 56 | 23°39'20 | 15°26 | 15°34 | 6°58 | 25°34 | 19°18 | 11°55 | 8°28 | 17° 7 | 0°39 | 4°28 | 5°11 | 6°25 | 25°11 | S 15 |
| S 16 | 3 43 52 | 24°39'57 | 27°35 | 17° 9 | 7°59 | 26°17 | 19°11 | 12° 1 | 8°26 | 17° 6 | 0°39 | 4°R28 | 5° 8 | 6°32 | 25° 8 | S 16 |
| M17 | 3 47 49 | 25°40'35 | 9 ∺ 33 | 18°45 | 9° 0 | 27° 0 | 19° 4 | 12° 8 | 8°24 | 17° 6 | 0°38 | 4°27 | 5° 5 | 6°38 | 25° 5 | M17 |
| T 18 | 3 51 45 | 26°41'15 | 21°24 | 20°20 | 10° 2 | 27°43 | 18°57 | 12°15 | 8°21 | 17° 6 | 0°38 | 4°24 | 5° 1 | 6°45 | 25° 1 | T 18 |
| W19 | 3 55 42 | 27°41'55 | 3 Υ14 | 21°55 | 11° 4 | 28°26 | 18°50 | 12°22 | 8°19 | 17° 5 | 0°38 | 4°18 | 4°58 | 6°52 | 24°58 | W19 |
| T 20 | 3 59 38 | 28°42'37 | 15° 7 | 23°31 | 12° 6 | 29° 9 | 18°43 | 12°29 | 8°16 | 17° 5 | 0°37 | 4°10 | 4°55 | 6°59 | 24°55 | T 20 |
| F 21 S 22 | 4 3 35 4 7 31 | 29°43'20 0 × 744'04 | 27° 5 9 8 13 | 25° 6 26°40 | 13° 9 14°12 | 29°52 0 ∡ 736 | 18°36 18°28 | 12°36 12°43 | 8°14 8°11 | 17° 5 17° 5 | 0°37 0°36 | 3°59 3°47 | 4°52 4°49 | 7° 5 7°12 | 24°52 24°48 | F 21 S 22 |
| | | | _ | | | | | | | -, - | | | | | _ | |
| S 23 | 4 11 28 | 1°44'50 | 21°30 | 28°15 | 15°16 | 1°19 | 18°21 | 12°50 | 8° 9 | 17° 4 | 0°35 | 3°35 | 4°46 | 7°19 | 24°45 | S 23 |
| M24 T 25 | 4 15 25 | 2°45'36 | 3 Ⅱ 58 16°38 | 29°50 1 × 724 | 16°20 17°24 | 2° 2 2°46 | 18°13 18° 6 | 12°57 13° 4 | 8° 6 8° 4 | 17° 4 17° 4 | 0°35 0°34 | 3°23 3°14 | 4°42 4°39 | 7°25 7°32 | 24°41 24°38 | M24 T 25 |
| W26 | 4 19 21 4 23 18 | 3°46'24 4°47'14 | 29°28 | 2°59 | 17°24 18°29 | 3°29 | 18° 6 17°58 | 13° 4 13°11 | 8° 4 8° 1 | 17° 4 17° 4 | 0°34 0°34 | 3°14 3° 6 | 4°39 4°36 | 7°32 7°39 | 24°38 24°34 | W26 |
| T 27 | 4 27 14 | 5°48'04 | 12930 | 4°33 | 19°33 | 4°13 | 17°50 | 13°18 | 7°59 | 17°D 4 | 0°33 | 3° 2 | 4°33 | 7°45 | 24°31 | T 27 |
| F 28 | 4 31 11 | 6°48'56 | 25°42 | 6° 7 | 20°39 | 4°56 | 17°42 | 13°25 | 7°56 | 17° 4 | 0°32 | 3° 0 | 4°30 | 7°52 | 24°27 | F 28 |
| S 29 | 4 35 7 | 7°49'49 | 9 0 5 | 7°42 | 21°44 | 5°40 | 17°34 | 13°32 | 7°53 | 17° 4 | 0°31 | 3°D 0 | 4°26 | 7°59 | 24°23 | S 29 |
| S 30 | 4 39 4 | 8 ∡ 750'43 | 22 Ω 41 | 16 آخ و | 22 £ 50 | 6 ₹ 24 | 17 Ⅱ 26 | 13 % 39 | 7 Ⅱ 51 | 17) 4 | 0 Ω 31 | 3≈ 0 | 4≈23 | 8 Υ 6 | 24∏20 | S 30 |

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Greg. Calendar

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| DECEMBER 1032 OC | 00:00 01 |

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|--------------------|------------------------------|-------------------------------|--|-------------------------|-------------------------|-------------------------|--------------------------|-------------------------|----------------------|-------------------------|----------------|----------------------|----------------------|-------------------------|-------------------------|--------------------|
| M 1 | 4 43 0 | 9 ∡ 751'39 | 6 Mp 30 | 10 ∡ 750 | 23 £ 56 | 7 . 7 7 | 17°R18 | 13 ×7 46 | 7°R48 | 17 ∺ 4 | 0°R30 | 3°R 1 | 4≈20 | 8 Υ 12 | 24°R16 | M 1 |
| T 2 | 4 46 57 | 10°52'36 | 20°33 | 12°24 | 25° 2 | 7°51 | 17 Ⅱ 10 | 13°53 | 7 Ⅱ 46 | 17° 4 | 0 Ω 29 | 3 ≈ 1 | 4°17 | 8°19 | 24 Ⅱ 12 | T 2 |
| W 3 | 4 50 54 | 11°53'34 | 4 Ω 49 | 13°58 | 26° 8 | 8°35 | 17° 2 | 14° 0 | 7°43 | 17° 5 | 0°28 | 2°58 | 4°14 | 8°26 | 24° 8 | W 3 |
| T 4 | 4 54 50 | 12°54'34 | 19°15 | 15°33 | 27°15 | 9°19 | 16°54 | 14° 7 | 7°41 | 17° 5 | 0°28 | 2°54 | 4°11 | 8°32 | 24° 5 | T 4 |
| F 5 | 4 58 47 | 13°55'35 | 3 M. 49 | 17° 7 | 28°22 | 10° 3 | 16°46 | 14°14 | 7°38 | 17° 5 | 0°27 | 2°47 | 4° 7 | 8°39 | 24° 1 | F 5 |
| S 6 | 5 2 43 | 14°56'36 | 18°23 | 18°41 | 29°29 | 10°47 | 16°37 | 14°22 | 7°36 | 17° 5 | 0°26 | 2°40 | 4° 4 | 8°46 | 23°57 | S 6 |
| S 7 | 5 6 40 | 15°57'39 | 2 ₹ 52 | 20°16 | 0 M ₊37 | 11°31 | 16°29 | 14°29 | 7°33 | 17° 6 | 0°25 | 2°32 | 4° 1 | 8°53 | 23°53 | S 7 |
| M 8 | 5 10 36 | 16°58'43 | 17°9 | 21°50 | 1°44 | 12°15 | 16°21 | 14°36 | 7°31 | 17° 6 | 0°24 | 2°24 | 3°58 | 8°59 | 23°49 | M 8 |
| T 9 | 5 14 33 | 17°59'48 | 1 る 7 | 23°25 | 2°52 | 12°59 | 16°13 | 14°43 | 7°28 | 17° 6 | 0°23 | 2°19 | 3°55 | 9° 6 | 23°45 | T 9 |
| W10 | 5 18 29 | 19° 0'53 | 14°44 | 25° 0 | 4° 0 | 13°43 | 16° 5 | 14°50 | 7°26 | 17° 7 | 0°22 | 2°15 | 3°52 | 9°13 | 23°41 | W10 |
| T 11 | 5 22 26 | 20° 1'59 | 27°57 | 26°35 | 5° 9 | 14°27 | 15°57 | 14°57 | 7°23 | 17° 7 | 0°21 | 2°D14 | 3°48 | 9°19 | 23°37 | T 11 |
| F 12 | 5 26 23 | 21° 3'05 | 10 ≈ 47 | 28°10 | 6°17 | 15°12 | 15°48 | 15° 4 | 7°21 | 17° 8 | 0°20 | 2°14 | 3°45 | 9°26 | 23°34 | F 12 |
| S 13 | 5 30 19 | 22° 4'11 | 23°16 | 29°45 | 7°26 | 15°56 | 15°40 | 15°11 | 7°18 | 17° 8 | 0°19 | 2°15 | 3°42 | 9°33 | 23°30 | S 13 |
| S 14 | | 23° 5'18 | 5 ¥ 29 | 1 る 20 | 8°34 | 16°40 | 15°32 | 15°18 | 7°16 | 17° 9 | 0°18 | 2°17 | 3°39 | 9°40 | 23°26 | S 14 |
| M15 T 16 | 5 34 16 5 38 12 5 42 9 | 24° 6'25 25° 7'33 | 17°29 29°22 | 2°55 4°31 | 9°43 10°52 | 17°25 18° 9 | 15°24 15°16 | 15°25 15°32 | 7°13 7°11 | 17° 9 17° 9 17°10 | 0°17 0°16 | 2°18 2°R18 | 3°36 3°32 | 9°46 9°53 | 23°22 23°18 | M15 T 16 |
| W17 T 18 | 5 46 5 5 50 2 | 26° 8'40 27° 9'48 | 11 Y 14 23° 8 | 6° 6 7°42 | 12° 2 13°11 | 18°54 19°38 | 15° 8 15° 1 | 15°39 15°46 | 7° 9 7° 6 | 17°11 17°11 17°11 | 0°15 0°14 | 2°17 2°14 | 3°29 3°26 | 10° 0 10° 6 | 23°14 23°10 | W17 T 18 |
| F 19 | 5 53 59 | 28°10'56 | 5 8 9 | 9°17 | 14°21 | 20°23 | 14°53 | 15°53 | 7° 4 | 17°12 | 0°13 | 2° 9 | 3°23 | 10°13 | 23° 6 | F 19 |
| S 20 | 5 57 55 | 29°12'04 | 17°21 | 10°52 | 15°30 | 21° 7 | 14°45 | 16° 0 | 7° 2 | 17°13 | 0°12 | 2° 4 | 3°20 | 10°20 | 23° 2 | S 20 |
| S 21 | 6 1 52 | 0 궁 13'12 | 29°46 | 12°28 | 16°40 | 21°52 | 14°38 | 16° 7 | 6°59 | 17°14 | 0°11 0° 9 | 1°58 | 3°17 | 10°27 | 22°58 | S 21 |
| M22 T 23 W24 | 6 5 48 6 9 45 6 13 41 | 1°14'20 2°15'29 3°16'38 | 12 Ⅱ 26 25°23 8 © 34 | 14° 3 15°38 17°12 | 17°50 19° 0 20°10 | 22°37 23°21 24° 6 | 14°30 14°23 14°15 | 16°14 16°21 16°28 | 6°57 6°55 6°53 | 17°15 17°15 17°16 | 0° 8 0° 7 | 1°52 1°48 1°44 | 3°13 3°10 3° 7 | 10°33 10°40 10°47 | 22°54 22°50 22°47 | M22 T 23 W24 |
| T 25 F 26 | 6 17 38 6 21 34 | 4°17'47 5°18'56 | 22° 0 5Ω38 | 18°46 20°20 | 21°21 22°31 | 24°51 25°36 | 14° 13 14° 8 14° 1 | 16°35 16°42 | 6°51 6°48 | 17°17 17°17 17°18 | 0° 6 0° 5 | 1°43 1°D42 | 3° 4 3° 1 | 10°53 11° 0 | 22°43 22°39 | T 25 F 26 |
| S 27 | 6 25 31 | 6°20'05 | 19°26 | 21°53 | 23°42 | 26°21 | 13°54 | 16°48 | 6°46 | 17°19 | 0° 4 | 1°43 | 2°58 | 11° 7 | 22°35 | S 27 |
| S 28 | 6 29 28 | 7°21'15 | 3 m 22 | 23°24 | 24°53 | 27° 6 | 13°47 | 16°55 | 6°44 | 17°20 | 0° 2 | 1°45 | 2°54 | 11°14 | 22°31 | S 28 |
| M29 | 6 33 24 | 8°22'24 | 17°24 | 24°55 | 26° 3 | 27°51 | 13°40 | 17° 2 | 6°42 | 17°21 | 0° 1 | 1°46 | 2°51 | 11°20 | 22°28 | M29 |
| T 30 | 6 37 21 | 9°23'34 | 1 ♀ 32 | 26°24 | 27°14 | 28°36 | 13°33 | 17° 9 | 6°40 | 17°22 | 29 © 59 | 1°47 | 2°48 | 11°27 | 22°24 | T 30 |
| W31 | 6 41 17 | 10 ට 24'45 | 15 ♀ 42 | 27 る 51 | 28 M -25 | 29 × 21 | 13 Ⅱ 27 | 17 ⁄7 15 | 6 Ⅲ 38 | 17 ∺ 23 | 29 © 59 | 1°R47 | 2 ≈ 45 | 11 ° 34 | 22 Ⅲ 20 | W31 |

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| F 2 S 3 S 4 | 6 45 14 6 49 10 6 53 7 6 57 3 7 1 0 | 11 3 25'55 12°27'06 13°28'17 14°29'28 | 29 £ 53 14 M 3 28° 9 | 29 ට 16 0≈39 | 29 TL 37 | 0 රු 6 | 4.000.00 | | | | | | | | | |
|-------------------|---|---|--|------------------------|-----------------|----------------|----------------|-----------------|---------------|----------------|--------|-------|------|----------------|----------------|------|
| S 3 S 4 | 6 53 7 6 57 3 7 1 0 | 13°28'17 | | 08839 | | 000 | 13°R20 | 17 ×7 22 | 6°R36 | 17) 25 | 29°R57 | 1°R46 | 2≈42 | 11 Y 40 | 22°R17 | T 1 |
| S 4 | 6 57 3 7 1 0 | | 28° 9 | 0,0,0,0 | 0 ∡ 748 | 0°52 | 13 Ⅱ 14 | 17°29 | 6 Ⅱ 34 | 17°26 | 299556 | 1≈44 | 2°38 | 11°47 | 22 I I3 | F 2 |
| | 7 1 0 | 1.4920120 | -0 / | 1°58 | 1°59 | 1°37 | 13° 8 | 17°35 | 6°32 | 17°27 | 29°55 | 1°42 | 2°35 | 11°54 | 22° 9 | S 3 |
| M 5 | , | 14-29-28 | 12 ₹ 7 | 3°14 | 3°11 | 2°22 | 13° 2 | 17°42 | 6°30 | 17°28 | 29°53 | 1°39 | 2°32 | 12° 1 | 22° 6 | S 4 |
| | | 15°30'39 | 25°55 | 4°25 | 4°22 | 3° 7 | 12°56 | 17°49 | 6°29 | 17°30 | 29°52 | 1°37 | 2°29 | 12° 7 | 22° 2 | M 5 |
| T 6 | 7 4 57 | 16°31'49 | 9 ට 30 | 5°31 | 5°34 | 3°53 | 12°51 | 17°55 | 6°27 | 17°31 | 29°51 | 1°35 | 2°26 | 12°14 | 21°59 | T 6 |
| W 7 | 7 8 53 | 17°33'00 | 22°48 | 6°32 | 6°45 | 4°38 | 12°45 | 18° 2 | 6°25 | 17°32 | 29°50 | 1°34 | 2°23 | 12°21 | 21°55 | W 7 |
| T 8 | 7 12 50 | 18°34'09 | 5≈49 | 7°26 | 7°57 | 5°24 | 12°40 | 18° 8 | 6°23 | 17°33 | 29°48 | 1°D34 | 2°19 | 12°27 | 21°52 | T 8 |
| F 9 | 7 16 46 | 19°35'19 | 18°32 | 8°12 | 9° 9 | 6° 9 | 12°35 | 18°14 | 6°22 | 17°35 | 29°47 | 1°35 | 2°16 | 12°34 | 21°49 | F 9 |
| S 10 | 7 20 43 | 20°36'27 | 1 ∺ 0 | 8°50 | 10°21 | 6°55 | 12°30 | 18°21 | 6°20 | 17°36 | 29°46 | 1°36 | 2°13 | 12°41 | 21°45 | S 10 |
| S 11 | 7 24 39 | 21°37'35 | 13°12 | 9°19 | 11°33 | 7°40 | 12°25 | 18°27 | 6°18 | 17°38 | 29°44 | 1°37 | 2°10 | 12°48 | 21°42 | S 11 |
| M12 | 7 28 36 | 22°38'43 | 25°14 | 9°38 | 12°45 | 8°26 | 12°20 | 18°33 | 6°17 | 17°39 | 29°43 | 1°38 | 2° 7 | 12°54 | 21°39 | M12 |
| T 13 | 7 32 32 | 23°39'49 | 7 Ƴ 9 | 9°R46 | 13°57 | 9°11 | 12°16 | 18°40 | 6°15 | 17°41 | 29°42 | 1°39 | 2° 4 | 13° 1 | 21°36 | T 13 |
| W14 | 7 36 29 | 24°40'55 | 19° 0 | 9°42 | 15° 9 | 9°57 | 12°11 | 18°46 | 6°14 | 17°42 | 29°40 | 1°39 | 2° 0 | 13° 8 | 21°33 | W14 |
| T 15 | 7 40 26 | 25°41'59 | 0 8 54 | 9°27 | 16°22 | 10°43 | 12° 7 | 18°52 | 6°13 | 17°44 | 29°39 | 1°R39 | 1°57 | 13°14 | 21°30 | T 15 |
| F 16 | 7 44 22 | 26°43'03 | 12°55 | 9° 1 | 17°34 | 11°29 | 12° 3 | 18°58 | 6°11 | 17°45 | 29°37 | 1°39 | 1°54 | 13°21 | 21°27 | F 16 |
| S 17 | 7 48 19 | 27°44'06 | 25° 7 | 8°23 | 18°46 | 12°14 | 12° 0 | 19° 4 | 6°10 | 17°47 | 29°36 | 1°38 | 1°51 | 13°28 | 21°24 | S 17 |
| S 18 | 7 52 15 | 28°45'08 | 7 Ⅱ 34 | 7°35 | 19°59 | 13° 0 | 11°56 | 19°10 | 6° 9 | 17°49 | 29°35 | 1°38 | 1°48 | 13°35 | 21°21 | S 18 |
| M19 | 7 56 12 | 29°46'09 | 20°19 | 6°37 | 21°11 | 13°46 | 11°53 | 19°16 | 6° 7 | 17°50 | 29°33 | 1°38 | 1°44 | 13°41 | 21°18 | M19 |
| T 20 | 8 0 8 | 0≈47'09 | 3925 | 5°32 | 22°24 | 14°32 | 11°50 | 19°22 | 6° 6 | 17°52 | 29°32 | 1°38 | 1°41 | 13°48 | 21°15 | T 20 |
| W21 | 8 4 5 | 1°48'08 | 16°53 | 4°21 | 23°36 | 15°18 | 11°47 | 19°28 | 6° 5 | 17°54 | 29°31 | 1°D37 | 1°38 | 13°55 | 21°13 | W21 |
| T 22 | 8 8 2 | 2°49'06 | $0\Omega 40$ | 3° 7 | 24°49 | 16° 4 | 11°44 | 19°34 | 6° 4 | 17°55 | 29°29 | 1°R38 | 1°35 | 14° 1 | 21°10 | T 22 |
| F 23 | 8 11 58 | 3°50'03 | 14°44 | 1°51 | 26° 1 | 16°50 | 11°41 | 19°39 | 6° 3 | 17°57 | 29°28 | 1°37 | 1°32 | 14° 8 | 21° 8 | F 23 |
| S 24 | 8 15 55 | 4°50'59 | 29° 2 | 0°36 | 27°14 | 17°36 | 11°39 | 19°45 | 6° 2 | 17°59 | 29°27 | 1°37 | 1°29 | 14°15 | 21° 5 | S 24 |
| S 25 | 8 19 51 | 5°51'54 | 13 m 28 | 29 궁 25 | 28°27 | 18°22 | 11°37 | 19°51 | 6° 1 | 18° 1 | 29°25 | 1°37 | 1°25 | 14°22 | 21° 3 | S 25 |
| | 8 23 48 | 6°52'49 | 27°56 | 28°18 | 29°40 | 19°8 | 11°35 | 19°56 | 6° 0 | 18° 2 | 29°24 | 1°36 | 1°22 | 14°28 | 21° 0 | M26 |
| T 27 | 8 27 44 | 7°53'42 | 12 ≏ 23 | 27°17 | 0 궁 52 | 19°54 | 11°33 | 20° 2 | 5°59 | 18° 4 | 29°23 | 1°36 | 1°19 | 14°35 | 20°58 | T 27 |
| W28 | 8 31 41 | 8°54'35 | 26°43 | 26°23 | 2° 5 | 20°40 | 11°32 | 20° 7 | 5°58 | 18° 6 | 29°21 | 1°35 | 1°16 | 14°42 | 20°56 | W28 |
| T 29 | 8 35 37 | 9°55'27 | 10 ML 53 | 25°38 | 3°18 | 21°26 | 11°30 | 20°13 | 5°58 | 18° 8 | 29°20 | 1°D35 | 1°13 | 14°48 | 20°54 | T 29 |
| F 30 | 8 39 34 | 10°56'18 | 24°52 | 25° 1 | 4°31 | 22°12 | 11°29 | 20°18 | 5°57 | 18°10 | 29°19 | 1°35 | 1°10 | 14°55 | 20°52 | F 30 |
| S 31 | 8 43 31 | 11≈57'09 | 8 ₹ 38 | 24 궁 32 | 5 る 44 | 22 る 59 | 11 Ⅲ 28 | 20 х 23 | 5 Ⅱ 56 | 18) 12 | 299517 | 1≈36 | 1≈ 6 | 15 Y 2 | 20耳50 | S 31 |

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| S 1 | 8 47 27 | 12≈57'58 | 22 × 11 | 24°R12 | 6 ප 57 | 23 궁 45 | 11°R27 | 20 × 29 | 5°R56 | 18) (14 | 29°R16 | 1≈37 | 1≈ 3 | 15 Y 9 | 20°R48 | S 1 |
| M 2 | 8 51 24 | 13°58'47 | 5 云 32 | 24る 0 | 8°10 | 24°31 | 11 Ⅱ 27 | 20°34 | 5 Ⅱ 55 | 18°16 | 299515 | 1°38 | 1° 0 | 15°15 | 20∏46 | M 2 |
| T 3 | 8 55 20 | 14°59'34 | 18°39 | 23°D55 | 9°23 | 25°18 | 11°27 | 20°39 | 5°55 | 18°18 | 29°13 | 1°39 | 0°57 | 15°22 | 20°44 | T 3 |
| W 4 | 8 59 17 | 16° 0'20 | 1≈33 | 23°58 | 10°37 | 26° 4 | 11°D26 | 20°44 | 5°54 | 18°19 | 29°12 | 1°R39 | 0°54 | 15°29 | 20°43 | W 4 |
| T 5 | 9 3 13 | 17° 1'05 | 14°15 | 24° 8 | 11°50 | 26°50 | 11°26 | 20°49 | 5°54 | 18°21 | 29°11 | 1°39 | 0°50 | 15°36 | 20°41 | T 5 |
| F 6 | 9 7 10 | 18° 1'48 | 26°45 | 24°25 | 13° 3 | 27°37 | 11°27 | 20°54 | 5°54 | 18°24 | 29° 9 | 1°38 | 0°47 | 15°42 | 20°40 | F 6 |
| S 7 | 911 6 | 19° 2'30 | 9) 4 | 24°47 | 14°16 | 28°23 | 11°27 | 20°58 | 5°53 | 18°26 | 29° 8 | 1°35 | 0°44 | 15°49 | 20°38 | S 7 |
| S 8 | 9 15 3 | 20° 3'11 | 21°12 | 25°15 | 15°29 | 29°10 | 11°28 | 21° 3 | 5°53 | 18°28 | 29° 7 | 1°33 | 0°41 | 15°56 | 20°37 | S 8 |
| M 9 | 9 19 0 | 21° 3'50 | 3 Υ 12 | 25°48 | 16°43 | 29°56 | 11°29 | 21° 8 | 5°53 | 18°30 | 29° 6 | 1°29 | 0°38 | 16° 2 | 20°35 | M 9 |
| T 10 | 9 22 56 | 22° 4'27 | 15° 6 | 26°26 | 17°56 | 0≈43 | 11°30 | 21°12 | 5°53 | 18°32 | 29° 4 | 1°26 | 0°35 | 16° 9 | 20°34 | T 10 |
| W11 | 9 26 53 | 23° 5'02 | 26°57 | 27° 8 | 19° 9 | 1°29 | 11°31 | 21°17 | 5°53 | 18°34 | 29° 3 | 1°23 | 0°31 | 16°16 | 20°33 | W11 |
| T 12 | 9 30 49 | 24° 5'36 | 8 8 50 | 27°54 | 20°23 | 2°16 | 11°33 | 21°21 | 5°D53 | 18°36 | 29° 2 | 1°21 | 0°28 | 16°23 | 20°32 | T 12 |
| F 13 | 9 34 46 | 25° 6'08 | 20°48 | 28°44 | 21°36 | 3° 2 | 11°34 | 21°26 | 5°53 | 18°38 | 29° 1 | 1°D20 | 0°25 | 16°29 | 20°31 | F 13 |
| S 14 | 9 38 42 | 26° 6'39 | 2∏57 | 29°37 | 22°49 | 3°49 | 11°36 | 21°30 | 5°53 | 18°40 | 29° 0 | 1°20 | 0°22 | 16°36 | 20°30 | S 14 |
| S 15 | 9 42 39 | 27° 7'07 | 15°20 | 0≈33 | 24° 3 | 4°35 | 11°38 | 21°34 | 5°53 | 18°42 | 28°58 | 1°21 | 0°19 | 16°43 | 20°30 | S 15 |
| M16 | 9 46 35 | 28° 7'34 | 28° 3 | 1°32 | 25°16 | 5°22 | 11°41 | 21°38 | 5°53 | 18°44 | 28°57 | 1°23 | 0°16 | 16°49 | 20°29 | M16 |
| T 17 | 9 50 32 | 29° 7'58 | 1195 9 | 2°34 | 26°30 | 6° 8 | 11°43 | 21°42 | 5°54 | 18°47 | 28°56 | 1°25 | 0°12 | 16°56 | 20°28 | T 17 |
| W18 | 9 54 29 | 0 米 8'21 | 24°40 | 3°38 | 27°43 | 6°55 | 11°46 | 21°46 | 5°54 | 18°49 | 28°55 | 1°R26 | 0° 9 | 17° 3 | 20°28 | W18 |
| T 19 | 9 58 25 | 1° 8'42 | 8 Ω 38 | 4°44 | 28°56 | 7°42 | 11°49 | 21°50 | 5°54 | 18°51 | 28°54 | 1°26 | 0° 6 | 17°10 | 20°27 | T 19 |
| F 20 | 10 2 22 | 2° 9'01 | 23° 0 | 5°53 | 0≈10 | 8°28 | 11°52 | 21°54 | 5°55 | 18°53 | 28°53 | 1°24 | <u>0</u> ° 3 | 17°16 | 20°27 | F 20 |
| S 21 | 10 6 18 | 3° 9'18 | 7 m)41 | 7° 3 | 1°23 | 9°15 | 11°55 | 21°58 | 5°55 | 18°55 | 28°52 | 1°21 | 29 궁 59 | 17°23 | 20°27 | S 21 |
| S 22 | 10 10 15 | 4° 9'33 | 22°34 | 8°16 | 2°37 | 10° 2 | 11°58 | 22° 1 | 5°56 | 18°58 | 28°51 | 1°17 | 29°56 | 17°30 | 20°27 | S 22 |
| M23 | 10 14 11 | 5° 9'47 | 7 ≏ 32 | 9°30 | 3°50 | 10°49 | 12° 2 | 22° 5 | 5°56 | 19° 0 | 28°49 | 1°12 | 29°53 | 17°36 | 20°27 | M23 |
| T 24 | 10 18 8 | 6° 9'59 | 22°25 | 10°46 | 5° 4 | 11°35 | 12° 6 | 22° 9 | 5°57 | 19° 2 | 28°48 | 1° 7 | 29°50 | 17°43 | 20°D27 | T 24 |
| W25 | 10 22 4 | 7°10'10 | 7 M 5 | 12° 4 | 6°17 | 12°22 | 12°10 | 22°12 | 5°58 | 19° 4 | 28°47 | 1° 2 | 29°47 | 17°50 | 20°27 | W25 |
| T 26 | 10 26 1 | 8°10'19 | 21°28 | 13°23 | 7°31 | 13° 9 | 12°14 | 22°15 | 5°58 | 19° 6 | 28°46 | 1° 0 | 29°44 | 17°57 | 20°27 | T 26 |
| F 27 | 10 29 57 | 9°10'27 | 5 ₹ 29 | 14°44 | 8°45 | 13°56 | 12°18 | 22°18 | 5°59 | 19° 9 | 28°45 | 0°D58 | 2 <u>9</u> °41 | 18° 3 | 20°27 | F 27 |
| S 28 | 10 33 54 | 10 米 10'33 | 19 .7 10 | 16≈ 6 | 9≈58 | 14≈42 | 12 Ⅱ 22 | 22 × 22 | 6 I 0 | 19 米 11 | 289544 | 0≈59 | 29 궁 37 | 18 Υ 10 | 20 Ⅲ 27 | S 28 |

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| M 2 | 10 37 51 | 11 米 10'37 | . 7 | | | | | | | | | | | | | |
|------|----------|-------------------|-----------------|--------------|---------------|---------------|----------------|----------------|----------------|----------------|--------|----------------|----------------|----------------|----------------|------|
| | | 11/(103/ | 2 ප 31 | 17≈30 | 11≈12 | 15≈29 | 12 Ⅱ 27 | 22 × 25 | 6 I 1 | 19 米 13 | 28°R43 | 1≈ 0 | 29 궁 34 | 18 Y 17 | 20∏28 | S 1 |
| т 2 | 10 41 47 | 12°10'40 | 15°33 | 18°55 | 12°25 | 16°16 | 12°32 | 22°28 | 6° 2 | 19°16 | 289543 | 1° 1 | 29°31 | 18°24 | 20°28 | M 2 |
| 1 3 | 10 45 44 | 13°10'42 | 28°20 | 20°21 | 13°39 | 17° 3 | 12°37 | 22°30 | 6° 3 | 19°18 | 28°42 | 1°R 2 | 29°28 | 18°30 | 20°29 | T 3 |
| W 4 | 10 49 40 | 14°10'41 | 10≈54 | 21°48 | 14°53 | 17°50 | 12°42 | 22°33 | 6° 4 | 19°20 | 28°41 | 1° 2 | 29°25 | 18°37 | 20°30 | W 4 |
| - | 10 53 37 | 15°10'39 | 23°18 | 23°17 | 16° 6 | 18°36 | 12°48 | 22°36 | 6° 5 | 19°22 | 28°40 | 0°59 | 29°22 | 18°44 | 20°30 | T 5 |
| F 6 | 10 57 33 | 16°10'35 | 5 ∺ 33 | 24°47 | 17°20 | 19°23 | 12°53 | 22°38 | 6° 6 | 19°25 | 28°39 | 0°55 | 29°18 | 18°50 | 20°31 | F 6 |
| S 7 | 11 130 | 17°10'28 | 17°40 | 26°19 | 18°34 | 20°10 | 12°59 | 22°41 | 6° 7 | 19°27 | 28°38 | 0°48 | 29°15 | 18°57 | 20°32 | S 7 |
| S 8 | 11 5 26 | 18°10'20 | 29°40 | 27°51 | 19°47 | 20°57 | 13° 5 | 22°43 | 6° 9 | 19°29 | 28°37 | 0°39 | 29°12 | 19° 4 | 20°33 | S 8 |
| M 9 | 11 9 23 | 19°10'10 | 11 Y 36 | 29°25 | 21° 1 | 21°44 | 13°11 | 22°46 | 6°10 | 19°31 | 28°37 | 0°29 | 29° 9 | 19°11 | 20°34 | M 9 |
| T 10 | 11 13 20 | 20° 9'58 | 23°29 | 1 ∀ 0 | 22°15 | 22°31 | 13°17 | 22°48 | 6°11 | 19°34 | 28°36 | 0°20 | 29° 6 | 19°17 | 20°36 | T 10 |
| | 11 17 16 | 21° 9'44 | 5 8 20 | 2°36 | 23°28 | 23°18 | 13°23 | 22°50 | 6°13 | 19°36 | 28°35 | 0°11 | 29° 2 | 19°24 | 20°37 | W11 |
| | 11 21 13 | 22° 9'27 | 17°13 | 4°14 | 24°42 | 24° 5 | 13°30 | 22°52 | 6°14 | 19°38 | 28°34 | 0° 3 | 28°59 | 19°31 | 20°38 | T 12 |
| - | 11 25 9 | 23° 9'09 | 29°10 | 5°53 | 25°56 | 24°51 | 13°36 | 22°54 | 6°16 | 19°41 | 28°34 | 29 궁 58 | 28°56 | 19°37 | 20°40 | F 13 |
| S 14 | 11 29 6 | 24° 8'48 | 11 II 16 | 7°33 | 27° 9 | 25°38 | 13°43 | 22°56 | 6°17 | 19°43 | 28°33 | 29°55 | 28°53 | 19°44 | 20°41 | S 14 |
| S 15 | 11 33 2 | 25° 8'25 | 23°35 | 9°14 | 28°23 | 26°25 | 13°50 | 22°57 | 6°19 | 19°45 | 28°32 | 29°D54 | 28°50 | 19°51 | 20°43 | S 15 |
| M16 | 11 36 59 | 26° 7'59 | 6 9्ड12 | 10°56 | 29°37 | 27°12 | 13°57 | 22°59 | 6°20 | 19°47 | 28°32 | 29°54 | 28°47 | 19°58 | 20°44 | M16 |
| | 11 40 55 | 27° 7'32 | 19°12 | 12°40 | 0 ∺ 50 | 27°59 | 14° 4 | 23° 1 | 6°22 | 19°50 | 28°31 | 29°55 | 28°43 | 20° 4 | 20°46 | T 17 |
| | 11 44 52 | 28° 7'01 | 2 Ω 38 | 14°25 | 2° 4 | 28°46 | 14°12 | 23° 2 | 6°24 | 19°52 | 28°30 | 29°R55 | 28°40 | 20°11 | 20°48 | W18 |
| | 11 48 49 | 29° 6'29 | 16°33 | 16°11 | 3°18 | 29°33 | 14°19 | 23° 3 | 6°26 | 19°54 | 28°30 | 29°54 | 28°37 | 20°18 | 20°50 | T 19 |
| | 11 52 45 | 0 ℃ 5'54 | 0 m ,57 | 17°59 | 4°31 | 0 ∺ 19 | 14°27 | 23° 5 | 6°27 | 19°56 | 28°29 | 29°51 | 28°34 | 20°24 | 20°52 | F 20 |
| S 21 | 11 56 42 | 1° 5'17 | 15°46 | 19°47 | 5°45 | 1° 6 | 14°35 | 23° 6 | 6°29 | 19°59 | 28°29 | 29°45 | 28°31 | 20°31 | 20°54 | S 21 |
| S 22 | 12 0 38 | 2° 4'38 | 0 ჲ 54 | 21°38 | 6°59 | 1°53 | 14°43 | 23° 7 | 6°31 | 20° 1 | 28°28 | 29°37 | 28°27 | 20°38 | 20°56 | S 22 |
| M23 | 12 4 35 | 3° 3'57 | 16°10 | 23°29 | 8°12 | 2°40 | 14°51 | 23° 8 | 6°33 | 20° 3 | 28°28 | 29°27 | 28°24 | 20°45 | 20°59 | M23 |
| T 24 | 12 8 31 | 4° 3'14 | 1 M 25 | 25°22 | 9°26 | 3°27 | 14°59 | 23° 9 | 6°35 | 20° 5 | 28°27 | 29°18 | 28°21 | 20°51 | 21° 1 | T 24 |
| W25 | 12 12 28 | 5° 2'29 | 16°26 | 27°16 | 10°40 | 4°14 | 15° 7 | 23° 9 | 6°37 | 20° 8 | 28°27 | 29° 9 | 28°18 | 20°58 | 21° 3 | W25 |
| T 26 | 12 16 24 | 6° 1'42 | 1 才 6 | 29°12 | 11°53 | 5° 0 | 15°16 | 23°10 | 6°39 | 20°10 | 28°26 | 29° 3 | 28°15 | 21° 5 | 21° 6 | T 26 |
| F 27 | 12 20 21 | 7° 0'53 | 15°20 | 1 Υ 8 | 13° 7 | 5°47 | 15°25 | 23°11 | 6°41 | 20°12 | 28°26 | 28°58 | 28°12 | 21°12 | 21° 8 | F 27 |
| S 28 | 12 24 18 | 8° 0'03 | 29° 7 | 3° 7 | 14°21 | 6°34 | 15°33 | 23°11 | 6°44 | 20°14 | 28°26 | 28°57 | 28° 8 | 21°18 | 21°11 | S 28 |
| | 12 28 14 | 8°59'11 | 12 る 27 | 5° 6 | 15°35 | 7°21 | 15°42 | 23°11 | 6°46 | 20°16 | 28°25 | 28°D56 | 28° 5 | 21°25 | 21°14 | S 29 |
| | 12 32 11 | 9°58'17 | 25°24 | 7° 6 | 16°48 | 8° 8 | 15°51 | 23°12 | 6°48 | 20°18 | 28°25 | 28°R57 | 28° 2 | 21°32 | 21°16 | M30 |
| T 31 | 12 36 7 | 10 ℃ 57'22 | 8≈ 2 | 9 Υ 8 | 18 米 2 | 8 ∺ 54 | 16 II 0 | 23 × 12 | 6 II 50 | 20 米 21 | 28925 | 28 궁 56 | 27 る 59 | 21 Y 38 | 21 Ⅱ 19 | T 31 |

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|------|----------|-------------------|----------------|---------------|----------------|----------------|----------------|----------------|------|----------------|--------|----------------|-----------------|----------------|----------------|------|
| W 1 | 12 40 4 | 11 Y 56'24 | 20≈25 | 11Υ11 | 19 米 16 | 9) (41 | 16耳 9 | 23°R12 | 6Д53 | 20 米 23 | 28°R25 | 28°R54 | 27 궁 56 | 21 Y 45 | 21 Ⅲ 22 | W 1 |
| T 2 | 12 44 0 | 12°55'25 | 2) 36 | 13°14 | 20°29 | 10°28 | 16°19 | 23 × 12 | 6°55 | 20°25 | 289524 | 28 궁 50 | 27°53 | 21°52 | 21°25 | T 2 |
| F 3 | 12 47 57 | 13°54'23 | 14°39 | 15°19 | 21°43 | 11°15 | 16°28 | 23°12 | 6°57 | 20°27 | 28°24 | 28°43 | 27°49 | 21°59 | 21°28 | F 3 |
| S 4 | 12 51 53 | 14°53'20 | 26°37 | 17°24 | 22°57 | 12° 1 | 16°38 | 23°11 | 7° 0 | 20°29 | 28°24 | 28°32 | 27°46 | 22° 5 | 21°31 | S 4 |
| S 5 | 12 55 50 | 15°52'15 | 8 Υ 32 | 19°30 | 24°11 | 12°48 | 16°47 | 23°11 | 7° 2 | 20°31 | 28°24 | 28°20 | 27°43 | 22°12 | 21°34 | S 5 |
| M 6 | 12 59 47 | 16°51'08 | 20°24 | 21°35 | 25°24 | 13°35 | 16°57 | 23°11 | 7° 5 | 20°33 | 28°24 | 28° 6 | 27°40 | 22°19 | 21°38 | M 6 |
| T 7 | 13 3 43 | 17°49'59 | 2 8 16 | 23°41 | 26°38 | 14°22 | 17° 7 | 23°10 | 7° 7 | 20°35 | 28°24 | 27°52 | 27°37 | 22°25 | 21°41 | T 7 |
| W 8 | 13 7 40 | 18°48'48 | 14° 9 | 25°47 | 27°52 | 15° 8 | 17°17 | 23° 9 | 7°10 | 20°38 | 28°24 | 27°38 | 27°33 | 22°32 | 21°44 | W 8 |
| T 9 | 13 11 36 | 19°47'34 | 26° 4 | 27°51 | 29° 5 | 15°55 | 17°27 | 23° 9 | 7°13 | 20°40 | 28°24 | 27°27 | 27°30 | 22°39 | 21°48 | T 9 |
| F 10 | 13 15 33 | 20°46'19 | 8 I 4 | 29°55 | 0 Υ 19 | 16°42 | 17°37 | 23° 8 | 7°15 | 20°42 | 28°D24 | 27°18 | 27°27 | 22°46 | 21°51 | F 10 |
| S 11 | 13 19 29 | 21°45'02 | 20°12 | 1 8 58 | 1°33 | 17°28 | 17°48 | 23° 7 | 7°18 | 20°44 | 28°24 | 27°12 | 27°24 | 22°52 | 21°55 | S 11 |
| S 12 | 13 23 26 | 22°43'42 | 2931 | 3°59 | 2°46 | 18°15 | 17°58 | 23° 6 | 7°21 | 20°46 | 28°24 | 27° 9 | 27°21 | 22°59 | 21°59 | S 12 |
| M13 | 13 27 22 | 23°42'20 | 15° 6 | 5°59 | 4° 0 | 19° 1 | 18° 8 | 23° 5 | 7°23 | 20°48 | 28°24 | 27° 8 | 27°18 | 23° 6 | 22° 2 | M13 |
| T 14 | 13 31 19 | 24°40'56 | 28° 0 | 7°56 | 5°14 | 19°48 | 18°19 | 23° 3 | 7°26 | 20°50 | 28°24 | 27° 8 | 27°14 | 23°13 | 22° 6 | T 14 |
| W15 | 13 35 16 | 25°39'30 | 11 Ω 19 | 9°51 | 6°27 | 20°34 | 18°30 | 23° 2 | 7°29 | 20°52 | 28°24 | 27° 8 | 27°11 | 23°19 | 22°10 | W15 |
| T 16 | 13 39 12 | 26°38'01 | 25° 5 | 11°42 | 7°41 | 21°21 | 18°41 | 23° 1 | 7°32 | 20°54 | 28°24 | 27° 6 | 27° 8 | 23°26 | 22°14 | T 16 |
| F 17 | 13 43 9 | 27°36'30 | 9 m ,20 | 13°31 | 8°55 | 22° 7 | 18°51 | 22°59 | 7°35 | 20°55 | 28°24 | 27° 2 | 27° 5 | 23°33 | 22°18 | F 17 |
| S 18 | 13 47 5 | 28°34'57 | 24° 3 | 15°16 | 10° 8 | 22°54 | 19° 2 | 22°58 | 7°38 | 20°57 | 28°24 | 26°55 | 27° 2 | 23°39 | 22°22 | S 18 |
| S 19 | 13 51 2 | 29°33'22 | 9 ჲ 7 | 16°58 | 11°22 | 23°40 | 19°13 | 22°56 | 7°41 | 20°59 | 28°25 | 26°46 | 26°59 | 23°46 | 22°26 | S 19 |
| M20 | 13 54 58 | 0 8 31'45 | 24°25 | 18°36 | 12°36 | 24°26 | 19°24 | 22°54 | 7°44 | 21° 1 | 28°25 | 26°36 | 26°55 | 23°53 | 22°30 | M20 |
| T 21 | 13 58 55 | 1°30'06 | 9 M .46 | 20°10 | 13°49 | 25°13 | 19°36 | 22°52 | 7°47 | 21° 3 | 28°25 | 26°25 | 26°52 | 24° 0 | 22°34 | T 21 |
| W22 | 14 2 51 | 2°28'25 | 24°57 | 21°39 | 15° 3 | 25°59 | 19°47 | 22°50 | 7°50 | 21° 5 | 28°25 | 26°15 | 26°49 | 24° 6 | 22°39 | W22 |
| T 23 | 14 6 48 | 3°26'43 | 9 ,7 49 | 23° 5 | 16°17 | 26°45 | 19°58 | 22°48 | 7°53 | 21° 7 | 28°26 | 26° 7 | 26°46 | 24°13 | 22°43 | T 23 |
| F 24 | 14 10 44 | 4°24'59 | 24°14 | 24°26 | 17°30 | 27°32 | 20°10 | 22°46 | 7°56 | 21° 8 | 28°26 | 26° 1 | 26°43 | 24°20 | 22°47 | F 24 |
| S 25 | 14 14 41 | 5°23'14 | 8 ਰ 11 | 25°43 | 18°44 | 28°18 | 20°21 | 22°44 | 7°59 | 21°10 | 28°26 | 25°58 | 26°39 | 24°27 | 22°52 | S 25 |
| S 26 | 14 18 38 | 6°21'27 | 21°38 | 26°55 | 19°57 | 29° 4 | 20°33 | 22°42 | 8° 2 | 21°12 | 28°27 | 25°D57 | 26°36 | 24°33 | 22°56 | S 26 |
| M27 | 14 22 34 | 7°19'38 | 4≈38 | 28° 3 | 21°11 | 29°50 | 20°44 | 22°39 | 8° 5 | 21°14 | 28°27 | 25°R57 | 26°33 | 24°40 | 23° 1 | M27 |
| T 28 | 14 26 31 | 8°17'48 | 17°16 | 29° 6 | 22°25 | 0 Υ 37 | 20°56 | 22°37 | 8° 8 | 21°15 | 28°28 | 25°57 | 26°30 | 24°47 | 23° 5 | T 28 |
| W29 | 14 30 27 | 9°15'57 | 29°36 | 0 <u>∏</u> 4 | 23°38 | 1°23 | 21° 8 | 22°34 | 8°11 | 21°17 | 28°28 | 25°56 | 26°27 | 24°53 | 23°10 | W29 |
| T 30 | 14 34 24 | 10814'04 | 11 米 44 | 0 Ⅱ 57 | 24 Y 52 | 2 Υ 9 | 21 Ⅱ 20 | 22 × 32 | 8耳15 | 21 米 19 | 28929 | 25 る 52 | 26 පි 24 | 25 Υ 0 | 23 Ⅱ 14 | T 30 |

Delta T = 16.94 sec

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| Day | Sid.t | 0 | D | ğ | Ŷ | ð | 4 | ħ |) y (| ¥ | В | P. | v | Ç | ę k | Day |
|--------------|----------------------|----------------------|------------------|--------------|----------------|----------------|-----------------|-----------------|---------------|----------------|----------------|-----------------|----------------|----------------|----------------|-------------|
| F 1 | 14 38 20 | 11812'09 | 23) (42 | 1∏46 | 26 Y 6 | 2 Y 55 | 21 Ⅲ 32 | 22°R29 | 8 Ⅱ 18 | 21 米 20 | 28929 | 25°R45 | 26 궁 20 | 25 ° 7 | 23耳19 | F 1 |
| S 2 | 14 42 17 | 12°10'14 | 5 Ƴ 35 | 2°29 | 27°19 | 3°41 | 21°44 | 22 × 26 | 8°21 | 21°22 | 28°30 | 25 궁 36 | 26°17 | 25°14 | 23°24 | S 2 |
| S 3 | 14 46 13 | 13° 8'16 | 17°27 | 3° 8 | 28°33 | 4°27 | 21°56 | 22°23 | 8°24 | 21°23 | 28°30 | 25°25 | 26°14 | 25°20 | 23°29 | S 3 |
| M 4 | 14 50 10 | 14° 6'17 | 29°18 | 3°41 | 29°46 | 5°13 | 22° 8 | 22°21 | 8°28 | 21°25 | 28°31 | 25°12 | 26°11 | 25°27 | 23°34 | M 4 |
| T 5 | 14 54 7 | 15° 4'17 | 11812 | 4° 9 | 1 8 0 | 5°59 | 22°20 | 22°18 | 8°31 | 21°27 | 28°32 | 24°59 | 26° 8 | 25°34 | 23°38 | T 5 |
| W 6 | 14 58 3 | 16° 2'15 | 23° 9 | 4°33 | 2°14 | 6°45 | 22°32 | 22°14 | 8°34 | 21°28 | 28°32 | 24°47 | 26° 4 | 25°40 | 23°43 | W 6 |
| T 7 | 15 2 0 | 17° 0'12 | 5 Ⅱ 11 | 4°51 | 3°27 | 7°30 | 22°45 | 22°11 | 8°38 | 21°30 | 28°33 | 24°36 | 26° 1 | 25°47 | 23°48 | T 7 |
| F 8 | 15 5 56 | 17°58'07 | 17°19 | 5° 4 | 4°41 | 8°16 | 22°57 | 22° 8 | 8°41 | 21°31 | 28°34 | 24°28 | 25°58 | 25°54 | 23°53 | F 8 |
| S 9 | 15 9 53 | 18°56'00 | 29°35 | 5°12 | 5°54 | 9° 2 | 23°10 | 22° 5 | 8°44 | 21°32 | 28°34 | 24°23 | 25°55 | 26° 1 | 23°58 | S 9 |
| S 10 | 15 13 49 | 19°53'52 | 1295 2 | 5°R15 | 7° 8 | 9°48 | 23°22 | 22° 2 | 8°48 | 21°34 | 28°35 | 24°20 | 25°52 | 26° 7 | 24° 4 | S 10 |
| M11 | 15 17 46 | 20°51'42 | 24°42 | 5°13 | 8°22 | 10°33 | 23°35 | 21°58 | 8°51 | 21°35 | 28°36 | 24°D19 | 25°49 | 26°14 | 24° 9 | M11 |
| T 12 | 15 21 43 | 21°49'30 | 7 Ω 39 | 5° 7 | 9°35 | 11°19 | 23°47 | 21°55 | 8°55 | 21°37 | 28°37 | 24°20 | 25°45 | 26°21 | 24°14 | T 12 |
| W13 | 15 25 39 15 29 36 | 22°47'16 | 20°55 | 4°56 | 10°49 12° 2 | 12° 5 12°50 | 24° 0 | 21°51 | 8°58 9° 1 | 21°38 21°39 | 28°37 28°38 | 24°R20 24°20 | 25°42 25°39 | 26°28 26°34 | 24°19 24°24 | W13 T 14 |
| T 14 F 15 | 15 29 36 | 23°45'01 24°42'44 | 4 Mp 35 18°39 | 4°40 4°21 | 12° 2 13°16 | 12°50 13°36 | 24°13 24°25 | 21°48 21°44 | 9° 1 | 21°39 21°40 | 28°38 28°39 | 24°20 24°17 | 25°39 25°36 | 26°34 26°41 | 24°24 24°30 | F 15 |
| S 16 | 15 37 29 | 25°40'25 | 3 <u>0</u> 7 | 3°58 | 14°30 | 13°30 | 24°38 | 21°40 | 9° 8 | 21°42 | 28°40 | 24°17 | 25°33 | 26°48 | 24°35 | S 16 |
| | | | | | | | | | | | | | | | | |
| S 17 | 15 41 25 | 26°38'05 | 17°56 | 3°33 3° 4 | 15°43 | 15° 6 | 24°51 | 21°36 | 9°12 | 21°43 21°44 | 28°41 | 24° 6 | 25°30 | 26°54 | 24°40 | S 17 |
| M18 T 19 | 15 45 22 15 49 18 | 27°35'43 28°33'20 | 3M 0 18°9 | 2°33 | 16°57 18°10 | 15°52 16°37 | 25° 4 25°17 | 21°33 21°29 | 9°15 9°19 | 21°44 21°45 | 28°42 28°43 | 23°58 23°50 | 25°26 25°23 | 27° 1 27° 8 | 24°46 24°51 | M18 T 19 |
| W20 | 15 53 15 | 28°33'20 29°30'56 | 3×713 | 2° 1 | 19°24 | 10°37 | 25°30 | 21°25 | 9°22 | 21°46 | 28°44 | 23°42 | 25°20 | 27°15 | 24°56 | W20 |
| T 21 | 15 57 12 | 0 Ⅲ 28'31 | 18° 2 | 1°27 | 20°37 | 18° 7 | 25°43 | 21°21 | 9°26 | 21°47 | 28°45 | 23°36 | 25°17 | 27°21 | 25° 2 | T 21 |
| F 22 | 16 1 8 | 1°26'04 | 2 පි 30 | 0°53 | 21°51 | 18°53 | 25°56 | 21°17 | 9°29 | 21°49 | 28°46 | 23°32 | 25°14 | 27°28 | 25° 7 | F 22 |
| S 23 | 16 5 5 | 2°23'37 | 16°31 | 0°19 | 23° 5 | 19°38 | 26° 9 | 21°13 | 9°33 | 21°50 | 28°47 | 23°31 | 25°10 | 27°35 | 25°13 | S 23 |
| S 24 | 16 9 1 | 3°21'08 | 0≈ 4 | 29846 | 24°18 | 20°23 | 26°22 | 21° 9 | 9°36 | 21°51 | 28°48 | 23°D31 | 25° 7 | 27°42 | 25°18 | S 24 |
| M25 | 16 12 58 | 4°18'39 | 13°10 | 29°14 | 25°32 | 21° 8 | 26°35 | 21° 5 | 9°40 | 21°52 | 28°49 | 23°32 | 25° 4 | 27°48 | 25°24 | M25 |
| T 26 | 16 16 54 | 5°16'09 | 25°53 | 28°44 | 26°45 | 21°53 | 26°48 | 21° 1 | 9°43 | 21°53 | 28°50 | 23°33 | 25° 1 | 27°55 | 25°30 | T 26 |
| W27 | 16 20 51 | 6°13'38 | 8) (16 | 28°16 | 27°59 | 22°38 | 27° 1 | 20°56 | 9°47 | 21°53 | 28°51 | 23°R33 | 24°58 | 28° 2 | 25°35 | W27 |
| T 28 | 16 24 47 | 7°11'06 | 20°24 | 27°51 | 29°13 | 23°23 | 27°15 | 20°52 | 9°51 | 21°54 | 28°52 | 23°32 | 24°55 | 28° 8 | 25°41 | T 28 |
| F 29 | 16 28 44 | 8° 8'33 | 2 Υ 23 | 27°29 | 0Д26 | 24° 7 | 27°28 | 20°48 | 9°54 | 21°55 | 28°53 | 23°29 | 24°51 | 28°15 | 25°46 | F 29 |
| S 30 | 16 32 41 | 9° 6'00 | 14°16 | 27°11 | 1°40 | 24°52 | 27°41 | 20°44 | 9°58 | 21°56 | 28°55 | 23°24 | 24°48 | 28°22 | 25°52 | S 30 |
| S 31 | 16 36 37 | 10耳 3'26 | 26 Y 7 | 26856 | 2耳53 | 25 Y 37 | 27 II 55 | 20 ∡ ³39 | 10耳 1 | 21 米 57 | 28956 | 23 궁 18 | 24 정 45 | 28 Y 29 | 25 Ⅱ 58 | S 31 |

Delta T = 16.90 sec

Greg. Calendar

JUNE 1693 GC 00:00 UT

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|--------------|----------------------|----------------------|-------------------------|------------------------|-----------------------|----------------|-----------------------|----------------|-------------------------|-----------------|----------------|----------------|----------------|-----------------------|----------------|--------------|
| M 1 | 16 40 34 | 11 I 0'51 | 8 8 0 | 26°R45 | 4 I 7 | 26 Y 21 | 28Ⅱ 8 | 20°R35 | 10耳 5 | 21 米 58 | 28957 | 23°R11 | 24 궁 42 | 28 Y 35 | 26耳 3 | M 1 |
| T 2 | 16 44 30 | 11°58'16 | 19°57 | 26839 | 5°21 | 27° 6 | 28°21 | 20 ∡ 31 | 10° 8 | 21°58 | 28°58 | 23중 3 | 24°39 | 28°42 | 26° 9 | T 2 |
| W 3 | 16 48 27 | 12°55'40 | 2 I 1 | 26°D37 | 6°34 | 27°51 | 28°35 | 20°26 | 10°12 | 21°59 | 28°59 | 22°56 | 24°36 | 28°49 | 26°15 | W 3 |
| T 4 | 16 52 23 | 13°53'03 | 14°13 | 26°39 | 7°48 | 28°35 | 28°48 | 20°22 | 10°15 | 22° 0 | 29° 1 | 22°50 | 24°32 | 28°55 | 26°21 | T 4 |
| F 5 | 16 56 20 | 14°50'25 | 26°33 | 26°46 | 9° 1 | 29°19 | 29° 2 | 20°18 | 10°19 | 22° 0 | 29° 2 | 22°45 | 24°29 | 29° 2 | 26°27 | F 5 |
| S 6 | 17 0 16 | 15°47'47 | 995 4 | 26°57 | 10°15 | 0 8 4 | 29°15 | 20°13 | 10°22 | 22° 1 | 29° 3 | 22°42 | 24°26 | 29° 9 | 26°32 | S 6 |
| S 7 | 17 4 13 | 16°45'08 | 21°46 | 27°13 | 11°29 | 0°48 | 29°29 | 20° 9 | 10°26 | 22° 2 | 29° 5 | 22°D42 | 24°23 | 29°16 | 26°38 | S 7 |
| M 8 | 17 8 10 | 17°42'28 | 4Ω41 | 27°34 | 12°42 | 1°32 | 29°42 | 20° 4 | 10°30 | 22° 2 | 29° 6 | 22°42 | 24°20 | 29°22 | 26°44 | M 8 |
| T 9 | 17 12 6 | 18°39'46 | 17°50 | 27°58 | 13°56 | 2°17 | 29°56 | 20° 0 | 10°33 | 22° 3 | 29° 7 | 22°43 | 24°16 | 29°29 | 26°50 | T 9 |
| W10 | 17 16 3 | 19°37'04 | 1 mp 14 | 28°28 | 15°10 | 3° 1 | 099 9 | 19°55 | 10°37 | 22° 3 | 29° 9 | 22°45 | 24°13 | 29°36 | 26°56 | W10 |
| T 11 | 17 19 59 | 20°34'21 | 14°56 | 29° 1 | 16°23 | 3°45 | 0°23 | 19°51 | 10°40 | 22° 4 | 29°10 | 22°R46 | 24°10 | 29°43 | 27° 2 | T 11 F 12 |
| F 12 S 13 | 17 23 56 | 21°31'38 | 28°55 | 29°39 0 Ⅲ 21 | 17°37 18°51 | 4°29 5°13 | 0°36 0°50 | 19°47 19°42 | 10°44 10°47 | 22° 4 22° 4 | 29°11 29°13 | 22°46 22°44 | 24° 7 24° 4 | 29°49 29°56 | 27° 7 27°13 | S 13 |
| | 17 27 52 | 22°28'53 | 13 ≏ 11 | | | | | _ | | | | | | | | 1 |
| S 14 | 17 31 49 | 23°26'07 | 27°41 | 1° 8 | 20° 4 | 5°56 | 1° 3 | 19°38 | 10°51 | 22° 5 | 29°14 | 22°42 | 24° 1 | 0 8 3 | 27°19 | S 14 |
| M15 | 17 35 45 | 24°23'21 | 12 M 23 | 1°58 | 21°18 | 6°40 | 1°17 | 19°33 | 10°54 | 22° 5 | 29°16 | 22°38 | 23°57 | 0° 9 | 27°25 | M15 |
| T 16 | 17 39 42 | 25°20'34 | 27° 8 | 2°52 | 22°32 | 7°24 | 1°31 | 19°29 | 10°57 | 22° 5 | 29°17 | 22°35 | 23°54 | 0°16 | 27°31 | T 16 |
| W17 | 17 43 39 | 26°17'47 | 11 🗷 51 | 3°50 | 23°45 | 8° 8 | 1°44 | 19°25 | 11° 1 | 22° 6 | 29°19 | 22°31 | 23°51 | 0°23 | 27°37 | W17 |
| T 18 F 19 | 17 47 35 17 51 32 | 27°14'59 28°12'11 | 26°23 10 云 39 | 4°52 5°58 | 24°59 26°13 | 8°51 9°35 | 1°58 2°11 | 19°20 19°16 | 11° 4 11° 8 | 22° 6 22° 6 | 29°20 29°22 | 22°28 22°27 | 23°48 23°45 | 0°30 0°36 | 27°43 27°49 | T 18 F 19 |
| S 20 | 17 51 32 | 28 12 11 29° 9'23 | 24°34 | 7° 8 | 20 13 27°26 | 10°18 | 2°25 | 19 10 19°12 | 11°11 | 22° 6 | 29°23 | 22°D26 | 23°42 | 0°43 | 27°54 | S 20 |
| | | | | | | | | | | | | | | | | |
| S 21 | 17 59 25 | 09 6'34 | 8≈ 6 | 8°21 | 28°40 | 11° 2 | 2°39 | 19° 7 | 11°15 | 22° 6 | 29°25 | 22°27 | 23°38 | 0°50 | 28° 0 | S 21 |
| M22 | 18 3 21 | 1° 3'46 | 21°13 | 9°38 | 29°54 | 11°45 | 2°52 | 19° 3 | 11°18 | 22° 6 | 29°26 | 22°28 | 23°35 | 0°57 | 28° 6 | M22 |
| T 23 W24 | 18 7 18 18 11 14 | 2° 0'57 2°58'08 | 3 米 59 16°26 | 10°59 12°23 | 1 95 7 2°21 | 12°28 13°11 | 3° 6 3°20 | 18°59 18°54 | 11°21 11°25 | 22° 6 22°R 6 | 29°28 29°29 | 22°30 22°31 | 23°32 23°29 | 1° 3 1°10 | 28°12 28°18 | T 23 W24 |
| T 25 | 18 11 14 | 3°55'19 | 28°37 | 12°23 13°51 | 3°35 | 13°54 | 3°33 | 18°54 18°50 | 11°28 | 22° K 6 | 29°29 29°31 | 22°R32 | 23°26 | 1°17 | 28°24 | T 25 |
| F 26 | 18 15 11 | 4°52'31 | 10° 37 | 15°22 | 4°48 | 13°34 14°38 | 3°47 | 18°46 | 11°28 | 22° 6 | 29°31 29°32 | 22°R32 | 23°22 23°22 | 1°17 | 28°24 28°30 | F 26 |
| S 27 | 18 23 4 | 5°49'43 | 22°32 | 16°57 | 6° 2 | 15°21 | 4° 1 | 18°42 | 11°35 | 22° 6 | 29°34 | 22°31 | 23°19 | 1°30 | 28°36 | S 27 |
| | | | | | | - | | _ | | - | | | | | | |
| S 28 | 18 27 1 | 6°46'54 | 4824 | 18°35 | 7°16 | 16° 3 | 4°14 | 18°38 | 11°38 | 22° 6 | 29°35 | 22°30 | 23°16 | 1°37 | 28°42 | S 28 |
| M29 | 18 30 57 | 7°44'07 | 16°20 | 20°17 | 8°30 9 © 43 | 16°46 | 4°28 4 © 41 | 18°34 | 11°41 11 ∏ 45 | 22° 6 | 29°37 | 22°28 | 23°13 | 1°44 1 8 50 | 28°48 | M29 |
| T 30 | 18 34 54 | 89541'19 | 28 8 21 | 22 I 1 | 92043 | 17 8 29 | 45941 | 18 × 30 | 11Щ45 | 22 米 6 | 29939 | 22 る 26 | 23 궁 10 | 1000 | 28 Ⅱ 53 | T 30 |

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| Day | Sid.t | 0 | D | ğ | φ | o ^r | 4 | ħ |)f(| # | Р | U | သ | Ç | ę, | Day |
|------|----------|------------------|----------------|----------------|----------------|----------------|--------|----------------|----------------|----------------|---------------|----------------|----------------|---------------|-------|------|
| W 1 | 18 38 50 | 99538'32 | 10 Ⅲ 31 | 23耳49 | 10957 | 18 8 12 | 4955 | 18°R26 | 11 Ⅱ 48 | 22°R 6 | 299540 | 22°R24 | 23중 7 | 1 8 57 | 28∏59 | W 1 |
| T 2 | 18 42 47 | 10°35'44 | 22°53 | 25°40 | 12°11 | 18°54 | 5° 9 | 18 × 22 | 11°51 | 22) 5 | 29°42 | 22 る 22 | 23° 3 | 2° 4 | 29° 5 | T 2 |
| F 3 | 18 46 43 | 11°32'57 | 59528 | 27°33 | 13°25 | 19°37 | 5°22 | 18°18 | 11°54 | 22° 5 | 29°43 | 22°21 | 23° 0 | 2°10 | 29°11 | F 3 |
| S 4 | 18 50 40 | 12°30'11 | 18°17 | 29°30 | 14°39 | 20°19 | 5°36 | 18°14 | 11°57 | 22° 5 | 29°45 | 22°D21 | 22°57 | 2°17 | 29°17 | S 4 |
| S 5 | 18 54 37 | 13°27'24 | 1Ω20 | 19528 | 15°52 | 21° 2 | 5°49 | 18°10 | 12° 1 | 22° 5 | 29°47 | 22°21 | 22°54 | 2°24 | 29°23 | S 5 |
| M 6 | 18 58 33 | 14°24'37 | 14°37 | 3°29 | 17° 6 | 21°44 | 6° 3 | 18° 6 | 12° 4 | 22° 4 | 29°48 | 22°21 | 22°51 | 2°31 | 29°28 | M 6 |
| T 7 | 19 2 30 | 15°21'51 | 28° 7 | 5°32 | 18°20 | 22°26 | 6°17 | 18° 3 | 12° 7 | 22° 4 | 29°50 | 22°22 | 22°48 | 2°37 | 29°34 | T 7 |
| W 8 | 19 6 26 | 16°19'04 | 11 m 50 | 7°37 | 19°34 | 23° 8 | 6°30 | 17°59 | 12°10 | 22° 3 | 29°52 | 22°23 | 22°44 | 2°44 | 29°40 | W 8 |
| T 9 | 19 10 23 | 17°16'17 | 25°44 | 9°43 | 20°48 | 23°50 | 6°44 | 17°56 | 12°13 | 22° 3 | 29°53 | 22°23 | 22°41 | 2°51 | 29°46 | T 9 |
| F 10 | 19 14 19 | 18°13'31 | 9 ≙ 47 | 11°50 | 22° 2 | 24°32 | 6°57 | 17°52 | 12°16 | 22° 2 | 29°55 | 22°23 | 22°38 | 2°58 | 29°51 | F 10 |
| S 11 | 19 18 16 | 19°10'44 | 23°59 | 13°58 | 23°15 | 25°14 | 7°11 | 17°49 | 12°19 | 22° 2 | 29°57 | 22°R23 | 22°35 | 3° 4 | 29°57 | S 11 |
| S 12 | 19 22 12 | 20° 7'58 | 8 M .17 | 16° 6 | 24°29 | 25°56 | 7°24 | 17°45 | 12°22 | 22° 1 | 29°58 | 22°23 | 22°32 | 3°11 | 09 3 | S 12 |
| M13 | 19 26 9 | 21° 5'12 | 22°37 | 18°15 | 25°43 | 26°38 | 7°37 | 17°42 | 12°25 | 22° 1 | 0Ω 0 | 22°23 | 22°28 | 3°18 | 0° 8 | M13 |
| T 14 | 19 30 6 | 22° 2'26 | 6 ₹ 57 | 20°23 | 26°57 | 27°20 | 7°51 | 17°39 | 12°28 | 22° 0 | 0° 2 | 22°D23 | 22°25 | 3°24 | 0°14 | T 14 |
| W15 | 19 34 2 | 22°59'40 | 21°12 | 22°31 | 28°11 | 28° 1 | 8° 4 | 17°35 | 12°31 | 22° 0 | 0° 4 | 22°23 | 22°22 | 3°31 | 0°20 | W15 |
| T 16 | 19 37 59 | 23°56'55 | 5 る 18 | 24°39 | 29°25 | 28°43 | 8°18 | 17°32 | 12°34 | 21°59 | 0° 5 | 22°23 | 22°19 | 3°38 | 0°25 | T 16 |
| F 17 | 19 41 55 | 24°54'10 | 19°12 | 26°45 | $0\Omega 39$ | 29°24 | 8°31 | 17°29 | 12°37 | 21°58 | 0° 7 | 22°R23 | 22°16 | 3°45 | 0°31 | F 17 |
| S 18 | 19 45 52 | 25°51'26 | 2≈50 | 28°51 | 1°53 | 0耳 5 | 8°44 | 17°26 | 12°39 | 21°57 | 0° 9 | 22°23 | 22°13 | 3°51 | 0°37 | S 18 |
| S 19 | 19 49 48 | 26°48'42 | 16°10 | 0 Ω 56 | 3° 6 | 0°47 | 8°57 | 17°23 | 12°42 | 21°57 | 0°10 | 22°23 | 22° 9 | 3°58 | 0°42 | S 19 |
| M20 | 19 53 45 | 27°45'59 | 29°12 | 2°59 | 4°20 | 1°28 | 9°11 | 17°20 | 12°45 | 21°56 | 0°12 | 22°22 | 22° 6 | 4° 5 | 0°48 | M20 |
| T 21 | 19 57 42 | 28°43'17 | 11 米 55 | 5° 1 | 5°34 | 2° 9 | 9°24 | 17°18 | 12°48 | 21°55 | 0°14 | 22°22 | 22° 3 | 4°11 | 0°53 | T 21 |
| W22 | 20 138 | 29°40'35 | 24°21 | 7° 1 | 6°48 | 2°50 | 9°37 | 17°15 | 12°50 | 21°54 | 0°15 | 22°21 | 22° 0 | 4°18 | 0°59 | W22 |
| T 23 | 20 5 35 | 0 ん 37'55 | 6 Ƴ 34 | 9° 1 | 8° 2 | 3°31 | 9°50 | 17°12 | 12°53 | 21°53 | 0°17 | 22°20 | 21°57 | 4°25 | 1° 4 | T 23 |
| F 24 | 20 9 31 | 1°35'15 | 18°35 | 10°58 | 9°16 | 4°11 | 10° 3 | 17°10 | 12°56 | 21°52 | 0°19 | 22°19 | 21°54 | 4°32 | 1° 9 | F 24 |
| S 25 | 20 13 28 | 2°32'37 | 0 8 30 | 12°54 | 10°30 | 4°52 | 10°16 | 17° 7 | 12°58 | 21°52 | 0°21 | 22°D19 | 21°50 | 4°38 | 1°15 | S 25 |
| S 26 | 20 17 24 | 3°30'00 | 12°24 | 14°48 | 11°44 | 5°33 | 10°30 | 17° 5 | 13° 1 | 21°51 | 0°22 | 22°19 | 21°47 | 4°45 | 1°20 | S 26 |
| M27 | 20 21 21 | 4°27'23 | 24°19 | 16°41 | 12°58 | 6°13 | 10°43 | 17° 3 | 13° 3 | 21°50 | 0°24 | 22°20 | 21°44 | 4°52 | 1°25 | M27 |
| T 28 | 20 25 17 | 5°24'48 | 6 Ⅱ 22 | 18°32 | 14°12 | 6°54 | 10°55 | 17° 1 | 13° 6 | 21°49 | 0°26 | 22°21 | 21°41 | 4°59 | 1°31 | T 28 |
| W29 | 20 29 14 | 6°22'15 | 18°37 | 20°22 | 15°26 | 7°34 | 11°8 | 16°58 | 13° 8 | 21°48 | 0°27 | 22°22 | 21°38 | 5° 5 | 1°36 | W29 |
| T 30 | 20 33 11 | 7°19'42 | 199 6 | 22° 9 | 16°40 | 8°14 | 11°21 | 16°56 | 13°11 | 21°47 | 0°29 | 22°23 | 21°34 | 5°12 | 1°41 | T 30 |
| F 31 | 20 37 7 | 8 Ω 17'11 | 13953 | 23 £ 56 | 17 Ω 54 | 8 Ⅲ 54 | 119534 | 16 ₹ 54 | 13 Ⅱ 13 | 21) 46 | 0 Ω 31 | 22 중 24 | 21 공 31 | 5 8 19 | 19546 | F 31 |

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Greg. Calendar

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| Day | Sid.t | \odot |) | φ | φ | o ⁷ | 4 | ħ |)∤(| ¥ | 2 | ß | Ω | Ç | Š | Day |
|------|----------|------------------|----------------|----------------|-----------------|----------------|--------|----------------|-----------------|------------------|---------------|----------------|----------------|---------------|---------------|------|
| S 1 | 20 41 4 | 9 Ω 14'40 | 26958 | 25 Ω 40 | 19 ೧ 8 | 9 Ⅱ 34 | 119547 | 16°R53 | 13 II 15 | 21°R44 | 0 Ω 32 | 22°R24 | 21 궁 28 | 5 8 25 | 1951 | S 1 |
| S 2 | 20 45 0 | 10°12'11 | 10 Ω 23 | 27°23 | 20°22 | 10°14 | 12° 0 | 16 ₹ 51 | 13°18 | 21) (43 | 0°34 | 22 る 23 | 21°25 | 5°32 | 1°56 | S 2 |
| M 3 | 20 48 57 | 11° 9'43 | 24° 5 | 29° 5 | 21°36 | 10°54 | 12°12 | 16°49 | 13°20 | 21°42 | 0°36 | 22°22 | 21°22 | 5°39 | 2° 1 | M 3 |
| T 4 | 20 52 53 | 12° 7'15 | 8Mp 2 | 0 m 45 | 22°50 | 11°34 | 12°25 | 16°47 | 13°22 | 21°41 | 0°38 | 22°19 | 21°19 | 5°46 | 2° 7 | T 4 |
| W 5 | 20 56 50 | 13° 4'49 | 22°11 | 2°23 | 24° 4 | 12°14 | 12°38 | 16°46 | 13°24 | 21°40 | 0°39 | 22°17 | 21°15 | 5°52 | 2°11 | W 5 |
| T 6 | 21 0 46 | 14° 2'23 | 6 ≏ 27 | 4° 0 | 25°18 | 12°53 | 12°50 | 16°45 | 13°26 | 21°39 | 0°41 | 22°14 | 21°12 | 5°59 | 2°16 | T 6 |
| F 7 | 21 443 | 14°59'59 | 20°46 | 5°35 | 26°32 | 13°33 | 13° 3 | 16°43 | 13°28 | 21°37 | 0°43 | 22°12 | 21° 9 | 6° 6 | 2°21 | F 7 |
| S 8 | 21 8 40 | 15°57'35 | 5M 4 | 7° 9 | 27°46 | 14°12 | 13°15 | 16°42 | 13°31 | 21°36 | 0°44 | 22°10 | 21° 6 | 6°12 | 2°26 | S 8 |
| S 9 | 21 12 36 | 16°55'13 | 19°18 | 8°41 | 29° 0 | 14°51 | 13°28 | 16°41 | 13°33 | 21°35 | 0°46 | 22°D10 | 21° 3 | 6°19 | 2°31 | S 9 |
| M10 | 21 16 33 | 17°52'51 | 3 . ₹25 | 10°11 | 0 m p 14 | 15°30 | 13°40 | 16°40 | 13°35 | 21°34 | 0°47 | 22°11 | 21° 0 | 6°26 | 2°36 | M10 |
| T 11 | 21 20 29 | 18°50'31 | 17°25 | 11°40 | 1°28 | 16° 9 | 13°52 | 16°39 | 13°36 | 21°32 | 0°49 | 22°12 | 20°56 | 6°33 | 2°40 | T 11 |
| W12 | 21 24 26 | 19°48'11 | 1 궁 14 | 13° 8 | 2°42 | 16°48 | 14° 4 | 16°38 | 13°38 | 21°31 | 0°51 | 22°13 | 20°53 | 6°39 | 2°45 | W12 |
| T 13 | 21 28 22 | 20°45'53 | 14°54 | 14°34 | 3°56 | 17°27 | 14°17 | 16°37 | 13°40 | 21°30 | 0°52 | 22°14 | 20°50 | 6°46 | 2°50 | T 13 |
| F 14 | 21 32 19 | 21°43'35 | 28°22 | 15°58 | 5°10 | 18° 6 | 14°29 | 16°37 | 13°42 | 21°28 | 0°54 | 22°R14 | 20°47 | 6°53 | 2°54 | F 14 |
| S 15 | 21 36 15 | 22°41'19 | 11 ≈ 38 | 17°20 | 6°24 | 18°44 | 14°41 | 16°36 | 13°44 | 21°27 | 0°56 | 22°13 | 20°44 | 6°59 | 2°59 | S 15 |
| S 16 | 21 40 12 | 23°39'04 | 24°40 | 18°41 | 7°38 | 19°23 | 14°53 | 16°36 | 13°45 | 21°25 | 0°57 | 22°10 | 20°40 | 7° 6 | 3° 3 | S 16 |
| M17 | 21 44 9 | 24°36'51 | 7 ∺ 28 | 20° 0 | 8°52 | 20° 1 | 15° 5 | 16°35 | 13°47 | 21°24 | 0°59 | 22° 6 | 20°37 | 7°13 | 3° 8 | M17 |
| T 18 | 21 48 5 | 25°34'39 | 20° 3 | 21°18 | 10° 6 | 20°39 | 15°16 | 16°35 | 13°49 | 21°22 | 1° 0 | 22° 0 | 20°34 | 7°20 | 3°12 | T 18 |
| W19 | 21 52 2 | 26°32'28 | 2 Υ 24 | 22°33 | 11°20 | 21°17 | 15°28 | 16°35 | 13°50 | 21°21 | 1° 2 | 21°54 | 20°31 | 7°26 | 3°16 | W19 |
| T 20 | 21 55 58 | 27°30'20 | 14°33 | 23°47 | 12°34 | 21°55 | 15°40 | 16°D35 | 13°52 | 21°20 | 1° 4 | 21°49 | 20°28 | 7°33 | 3°20 | T 20 |
| F 21 | 21 59 55 | 28°28'13 | 26°33 | 24°59 | 13°48 | 22°33 | 15°52 | 16°35 | 13°53 | 21°18 | 1° 5 | 21°44 | 20°25 | 7°40 | 3°25 | F 21 |
| S 22 | 22 3 51 | 29°26'08 | 8 8 27 | 26° 8 | 15° 2 | 23°11 | 16° 3 | 16°35 | 13°55 | 21°17 | 1° 7 | 21°40 | 20°21 | 7°46 | 3°29 | S 22 |
| S 23 | 22 7 48 | 0 Mp 24'04 | 20°19 | 27°16 | 16°16 | 23°49 | 16°15 | 16°35 | 13°56 | 21°15 | 1° 8 | 21°38 | 20°18 | 7°53 | 3°33 | S 23 |
| M24 | 22 11 44 | 1°22'03 | 2 Ⅱ 14 | 28°21 | 17°30 | 24°26 | 16°26 | 16°35 | 13°58 | 21°14 | 1°10 | 21°D37 | 20°15 | 8° 0 | 3°37 | M24 |
| T 25 | 22 15 41 | 2°20'03 | 14°15 | 29°24 | 18°44 | 25° 4 | 16°37 | 16°36 | 13°59 | 21°12 | 1°11 | 21°38 | 20°12 | 8° 7 | 3°41 | T 25 |
| W26 | 22 19 38 | 3°18'05 | 26°30 | 0 <u>₽</u> 25 | 19°58 | 25°41 | 16°49 | 16°36 | 14° 0 | 21°10 | 1°13 | 21°39 | 20° 9 | 8°13 | 3°45 | W26 |
| T 27 | 22 23 34 | 4°16'10 | 999 0 | 1°23 | 21°12 | 26°18 | 17° 0 | 16°37 | 14° 1 | 21° 9 | 1°14 | 21°41 | 20° 6 | 8°20 | 3°48 | T 27 |
| F 28 | 22 27 31 | 5°14'16 | 21°52 | 2°18 | 22°26 | 26°55 | 17°11 | 16°37 | 14° 2 | 21° 7 | 1°16 | 21°R41 | 20° 2 | 8°27 | 3°52 | F 28 |
| S 29 | 22 31 27 | 6°12'24 | 5 Ω 8 | 3°11 | 23°40 | 27°32 | 17°22 | 16°38 | 14° 4 | 21° 6 | 1°17 | 21°40 | 19°59 | 8°34 | 3°56 | S 29 |
| S 30 | 22 35 24 | 7°10'34 | 18°48 | 4° 0 | 24°54 | 28° 9 | 17°33 | 16°39 | 14° 5 | 21° 4 | 1°19 | 2 <u>1</u> °37 | 1 <u>9</u> °56 | 8°40 | 4° 0 | S 30 |
| M31 | 22 39 20 | 8 Mp 8'45 | 2 M 52 | 4 ≏ 46 | 26Mp 8 | 28 Ⅱ 45 | 179544 | 16 ₮ 40 | 14 I I 6 | 21 米 3 | 1 Ω 20 | 21 궁 33 | 19 る 53 | 8 8 47 | 4 95 3 | M31 |

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SEPTEMBER 1693 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | P | ♂ | 4 | ħ |)Å(| ¥ | Р | ß | v | Ç | Q K | Day |
|------|----------|-------------------|-----------------|----------------|----------------|-------|--------|-----------------|-----------------|----------------|---------------|----------------|----------------|---------------|--------|------|
| T 1 | 22 43 17 | 9 m) 6'59 | 17 m)15 | 5 Ω 29 | 27 Mg 22 | 29Ⅱ22 | 179554 | 16 √ 41 | 14 I 7 | 21°R 1 | 1 Q 21 | 21°R26 | 19 る 50 | 8 8 54 | 499 7 | T 1 |
| W 2 | 22 47 13 | 10° 5'14 | 1 <u>⊶</u> 51 | 6° 7 | 28°36 | 29°58 | 18° 5 | 16°42 | 14° 7 | 20 米 59 | 1°23 | 21 궁 19 | 19°46 | 9° 0 | 4°10 | W 2 |
| T 3 | 22 51 10 | 11° 3'30 | 16°35 | 6°42 | 29°50 | 0934 | 18°16 | 16°43 | 14° 8 | 20°58 | 1°24 | 21°11 | 19°43 | 9° 7 | 4°14 | T 3 |
| F 4 | 22 55 6 | 12° 1'49 | 1 M .16 | 7°12 | 1 ♀ 4 | 1°11 | 18°26 | 16°45 | 14° 9 | 20°56 | 1°26 | 21° 4 | 19°40 | 9°14 | 4°17 | F 4 |
| S 5 | 22 59 3 | 13° 0'09 | 15°50 | 7°38 | 2°18 | 1°46 | 18°36 | 16°46 | 14°10 | 20°54 | 1°27 | 21° 0 | 19°37 | 9°21 | 4°20 | S 5 |
| S 6 | 23 3 0 | 13°58'30 | 0 才 11 | 7°59 | 3°32 | 2°22 | 18°47 | 16°48 | 14°11 | 20°53 | 1°28 | 20°57 | 19°34 | 9°27 | 4°23 | S 6 |
| M 7 | 23 6 56 | 14°56'53 | 14°17 | 8°15 | 4°46 | 2°58 | 18°57 | 16°49 | 14°11 | 20°51 | 1°30 | 20°D56 | 19°31 | 9°34 | 4°26 | M 7 |
| T 8 | 23 10 53 | 15°55'18 | 28° 6 | 8°24 | 6° 0 | 3°33 | 19° 7 | 16°51 | 14°12 | 20°49 | 1°31 | 20°56 | 19°27 | 9°41 | 4°29 | T 8 |
| W 9 | 23 14 49 | 16°53'44 | 11 る 40 | 8°R28 | 7°14 | 4° 9 | 19°17 | 16°53 | 14°12 | 20°48 | 1°32 | 20°57 | 19°24 | 9°47 | 4°32 | W 9 |
| T 10 | 23 18 46 | 17°52'12 | 24°59 | 8°26 | 8°28 | 4°44 | 19°27 | 16°55 | 14°13 | 20°46 | 1°33 | 20°R57 | 19°21 | 9°54 | 4°35 | T 10 |
| F 11 | 23 22 42 | 18°50'42 | 8 ≈ 4 | 8°17 | 9°42 | 5°19 | 19°36 | 16°57 | 14°13 | 20°44 | 1°35 | 20°56 | 19°18 | 10° 1 | 4°38 | F 11 |
| S 12 | 23 26 39 | 19°49'13 | 20°58 | 8° 2 | 10°56 | 5°54 | 19°46 | 16°59 | 14°14 | 20°43 | 1°36 | 20°52 | 19°15 | 10° 8 | 4°41 | S 12 |
| S 13 | 23 30 36 | 20°47'46 | 3) (41 | 7°39 | 12°10 | 6°28 | 19°56 | 17° 1 | 14°14 | 20°41 | 1°37 | 20°46 | 19°12 | 10°14 | 4°44 | S 13 |
| M14 | 23 34 32 | 21°46'20 | 16°13 | 7°10 | 13°24 | 7° 3 | 20° 5 | 17° 4 | 14°14 | 20°40 | 1°38 | 20°37 | 19° 8 | 10°21 | 4°46 | M14 |
| T 15 | 23 38 29 | 22°44'57 | 28°35 | 6°33 | 14°38 | 7°37 | 20°14 | 17° 6 | 14°15 | 20°38 | 1°39 | 20°26 | 19° 5 | 10°28 | 4°49 | T 15 |
| W16 | 23 42 25 | 23°43'36 | 10 Ƴ 47 | 5°50 | 15°52 | 8°11 | 20°24 | 17° 9 | 14°15 | 20°36 | 1°41 | 20°15 | 19° 2 | 10°34 | 4°51 | W16 |
| T 17 | 23 46 22 | 24°42'16 | 22°51 | 5° 1 | 17° 6 | 8°46 | 20°33 | 17°11 | 14°15 | 20°35 | 1°42 | 20° 3 | 18°59 | 10°41 | 4°53 | T 17 |
| F 18 | 23 50 18 | 25°40'59 | 4847 | 4° 5 | 18°20 | 9°19 | 20°42 | 17°14 | 14°15 | 20°33 | 1°43 | 19°52 | 18°56 | 10°48 | 4°56 | F 18 |
| S 19 | 23 54 15 | 26°39'44 | 16°39 | 3° 5 | 19°34 | 9°53 | 20°51 | 17°17 | 14°R15 | 20°31 | 1°44 | 19°43 | 18°52 | 10°54 | 4°58 | S 19 |
| S 20 | 23 58 11 | 27°38'31 | 28°29 | 2° 2 | 20°47 | 10°27 | 20°59 | 17°19 | 14°15 | 20°30 | 1°45 | 19°37 | 18°49 | 11° 1 | 5° 0 | S 20 |
| M21 | 0 2 8 | 28°37'21 | 10 Ⅲ 21 | 0°56 | 22° 1 | 11° 0 | 21° 8 | 17°22 | 14°15 | 20°28 | 1°46 | 19°33 | 18°46 | 11°8 | 5° 2 | M21 |
| T 22 | 0 6 4 | 29°36'13 | 22°20 | 29 m 49 | 23°15 | 11°33 | 21°16 | 17°25 | 14°15 | 20°26 | 1°47 | 19°31 | 18°43 | 11°15 | 5° 4 | T 22 |
| W23 | 0 10 1 | 0 ≏ 35'07 | 4931 | 28°43 | 24°29 | 12° 6 | 21°25 | 17°28 | 14°15 | 20°25 | 1°48 | 19°D31 | 18°40 | 11°21 | 5° 6 | W23 |
| T 24 | 0 13 58 | 1°34'03 | 16°59 | 27°40 | 25°43 | 12°39 | 21°33 | 17°32 | 14°14 | 20°23 | 1°49 | 19°R31 | 18°37 | 11°28 | 5° 8 | T 24 |
| F 25 | 0 17 54 | 2°33'02 | 29°49 | 26°40 | 26°57 | 13°12 | 21°41 | 17°35 | 14°14 | 20°21 | 1°50 | 19°31 | 18°33 | 11°35 | 5°10 | F 25 |
| S 26 | 0 21 51 | 3°32'03 | 13 N 5 | 25°47 | 28°11 | 13°44 | 21°49 | 17°38 | 14°14 | 20°20 | 1°51 | 19°29 | 18°30 | 11°41 | 5°11 | S 26 |
| S 27 | 0 25 47 | 4°31'06 | 26°49 | 25° 2 | 29°25 | 14°16 | 21°57 | 17°42 | 14°13 | 20°18 | 1°52 | 19°24 | 18°27 | 11°48 | 5°13 | S 27 |
| M28 | 0 29 44 | 5°30'11 | 11 Mp 3 | 24°25 | 0 M .38 | 14°48 | 22° 5 | 17°45 | 14°13 | 20°17 | 1°53 | 19°17 | 18°24 | 11°55 | 5°14 | M28 |
| T 29 | 0 33 40 | 6°29'19 | 25°41 | 23°57 | 1°52 | 15°20 | 22°12 | 17°49 | 14°12 | 20°15 | 1°54 | 1 <u>9</u> ° 8 | 1 <u>8</u> °21 | 12° 2 | 5°16 | T 29 |
| W30 | 0 37 37 | 7 ≏ 28'28 | 10 ≏ 38 | 23 Mp 40 | 3M 6 | 15952 | 229520 | 17 × 753 | 14 I I12 | 20 米 13 | 1 Ω 55 | 18 궁 57 | 18 궁 17 | 12 8 8 | 59917 | W30 |

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Greg. Calendar

OCTOBER 1693 GC 00:00 UT

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|------|---------|------------------|----------------|----------------|----------------|--------------|-------|-----------------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|------|
| T 1 | 0 41 33 | 8 ≏ 27'40 | 25 ≏ 45 | 23°D33 | 4ML20 | 16923 | 22927 | 17 ∡ 756 | 14°R11 | 20°R12 | 1 0 56 | 18°R46 | 18 궁 14 | 12 8 15 | 59918 | T 1 |
| F 2 | 0 45 30 | 9°26'54 | 10 M 51 | 23 m 37 | 5°34 | 16°54 | 22°34 | 18° 0 | 14 Ⅱ 11 | 20) 10 | 1°56 | 18 궁 36 | 18°11 | 12°22 | 5°19 | F 2 |
| S 3 | 0 49 27 | 10°26'09 | 25°46 | 23°51 | 6°47 | 17°25 | 22°41 | 18° 4 | 14°10 | 20° 9 | 1°57 | 18°28 | 18° 8 | 12°28 | 5°20 | S 3 |
| S 4 | 0 53 23 | 11°25'27 | 10 ∡ 23 | 24°16 | 8° 1 | 17°56 | 22°48 | 18° 8 | 14° 9 | 20° 7 | 1°58 | 18°22 | 18° 5 | 12°35 | 5°21 | S 4 |
| M 5 | 0 57 20 | 12°24'46 | 24°38 | 24°50 | 9°15 | 18°26 | 22°55 | 18°12 | 14° 8 | 20° 6 | 1°59 | 18°20 | 18° 2 | 12°42 | 5°22 | M 5 |
| T 6 | 1 1 16 | 13°24'08 | 8 云 29 | 25°33 | 10°29 | 18°56 | 23° 1 | 18°16 | 14° 8 | 20° 4 | 1°59 | 18°19 | 17°58 | 12°49 | 5°23 | T 6 |
| W 7 | 1 5 13 | 14°23'30 | 21°58 | 26°24 | 11°42 | 19°26 | 23° 8 | 18°21 | 14° 7 | 20° 3 | 2° 0 | 18°19 | 17°55 | 12°55 | 5°24 | W 7 |
| T 8 | 1 9 9 | 15°22'55 | 5≈ 7 | 27°23 | 12°56 | 19°56 | 23°14 | 18°25 | 14° 6 | 20° 1 | 2° 1 | 18°18 | 17°52 | 13° 2 | 5°24 | T 8 |
| F 9 | 1 13 6 | 16°22'21 | 17°58 | 28°29 | 14°10 | 20°26 | 23°20 | 18°29 | 14° 5 | 20° 0 | 2° 1 | 18°16 | 17°49 | 13° 9 | 5°25 | F 9 |
| S 10 | 1 17 2 | 17°21'49 | 0 ∺ 36 | 29°41 | 15°24 | 20°55 | 23°26 | 18°34 | 14° 4 | 19°58 | 2° 2 | 18°11 | 17°46 | 13°15 | 5°25 | S 10 |
| S 11 | 1 20 59 | 18°21'19 | 13° 3 | 0 <u>ჲ</u> 58 | 16°37 | 21°24 | 23°32 | 18°38 | 14° 3 | 19°57 | 2° 3 | 18° 3 | 17°43 | 13°22 | 5°26 | S 11 |
| M12 | 1 24 56 | 19°20'51 | 25°20 | 2°19 | 17°51 | 21°53 | 23°37 | 18°43 | 14° 1 | 19°56 | 2° 3 | 17°52 | 17°39 | 13°29 | 5°26 | M12 |
| T 13 | 1 28 52 | 20°20'24 | 7 Y 30 | 3°45 | 19° 5 | 22°21 | 23°43 | 18°48 | 14° 0 | 19°54 | 2° 4 | 17°39 | 17°36 | 13°36 | 5°26 | T 13 |
| W14 | 1 32 49 | 21°20'00 | 19°33 | 5°13 | 20°18 | 22°49 | 23°48 | 18°53 | 13°59 | 19°53 | 2° 4 | 17°25 | 17°33 | 13°42 | 5°26 | W14 |
| T 15 | 1 36 45 | 22°19'38 | 1 8 30 | 6°45 | 21°32 | 23°17 | 23°53 | 18°57 | 13°58 | 19°52 | 2° 5 | 17°10 | 17°30 | 13°49 | 5°R26 | T 15 |
| F 16 | 1 40 42 | 23°19'18 | 13°23 | 8°18 | 22°45 | 23°45 | 23°58 | 19° 2 | 13°56 | 19°50 | 2° 5 | 16°57 | 17°27 | 13°56 | 5°26 | F 16 |
| S 17 | 1 44 38 | 24°18'59 | 25°14 | 9°53 | 23°59 | 24°12 | 24° 3 | 19° 7 | 13°55 | 19°49 | 2° 6 | 16°46 | 17°23 | 14° 2 | 5°26 | S 17 |
| S 18 | 1 48 35 | 25°18'43 | 7 I I 4 | 11°30 | 25°13 | 24°39 | 24° 8 | 19°12 | 13°54 | 19°48 | 2° 6 | 16°37 | 17°20 | 14° 9 | 5°26 | S 18 |
| M19 | 1 52 31 | 26°18'30 | 18°56 | 13° 8 | 26°26 | 25° 6 | 24°12 | 19°17 | 13°52 | 19°46 | 2° 6 | 16°31 | 17°17 | 14°16 | 5°26 | M19 |
| T 20 | 1 56 28 | 27°18'18 | 0954 | 14°47 | 27°40 | 25°33 | 24°16 | 19°22 | 13°51 | 19°45 | 2° 7 | 16°29 | 17°14 | 14°23 | 5°25 | T 20 |
| W21 | 2 0 25 | 28°18'09 | 13° 3 | 16°26 | 28°53 | 25°59 | 24°20 | 19°28 | 13°49 | 19°44 | 2° 7 | 16°D28 | 17°11 | 14°29 | 5°25 | W21 |
| T 22 | 2 4 21 | 29°18'02 | 25°27 | 18° 6 | 0 , ₹ 7 | 26°25 | 24°24 | 19°33 | 13°48 | 19°43 | 2° 7 | 16°R28 | 17° 8 | 14°36 | 5°24 | T 22 |
| F 23 | 2 8 18 | 0 M 17'57 | 8 N 11 | 19°46 | 1°20 | 26°50 | 24°28 | 19°38 | 13°46 | 19°42 | 2°8 | 16°28 | 17° 4 | 14°43 | 5°23 | F 23 |
| S 24 | 2 12 14 | 1°17'54 | 21°21 | 21°26 | 2°34 | 27°16 | 24°32 | 19°44 | 13°44 | 19°40 | 2° 8 | 16°26 | 17° 1 | 14°49 | 5°23 | S 24 |
| S 25 | 2 16 11 | 2°17'54 | 5Mp 0 | 23° 6 | 3°47 | 27°41 | 24°35 | 19°49 | 13°43 | 19°39 | 2° 8 | 16°22 | 16°58 | 14°56 | 5°22 | S 25 |
| M26 | 2 20 7 | 3°17'55 | 19° 9 | 24°46 | 5° 1 | 28° 5 | 24°38 | 19°55 | 13°41 | 19°38 | 2°8 | 16°16 | 16°55 | 15° 3 | 5°21 | M26 |
| T 27 | 2 24 4 | 4°17'59 | 3 ≏ 46 | 26°26 | 6°14 | 28°29 | 24°41 | 20° 0 | 13°39 | 19°37 | 2° 9 | 16° 7 | 16°52 | 15° 9 | 5°20 | T 27 |
| W28 | 2 28 0 | 5°18'05 | 18°48 | 28° 6 | 7°27 | 28°53 | 24°44 | 20° 6 | 13°37 | 19°36 | 2° 9 | 15°57 | 16°48 | 15°16 | 5°19 | W28 |
| T 29 | 2 31 57 | 6°18'12 | 4M 4 | 29°46 | 8°41 | 29°17 | 24°47 | 20°12 | 13°36 | 19°35 | 2° 9 | 15°46 | 16°45 | 15°23 | 5°17 | T 29 |
| F 30 | 2 35 53 | 7°18'22 | 19°23 | 1ML25 | 9°54 | 29°40 | 24°49 | 20°17 | 13°34 | 19°34 | 2° 9 | 15°37 | 16°42 | 15°30 | 5°16 | F 30 |
| S 31 | 2 39 50 | 8ML18'34 | 4 ∡ ³35 | 3M 4 | 11 ~ 8 | 0 Ω 2 | 24951 | 20 х 23 | 13 Ⅱ 32 | 19 米 33 | 2 N 9 | 15 る 29 | 16 る 39 | 15 8 36 | 5 9 15 | S 31 |

Delta T = 16.72 sec

NOVEMBER 1693 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)∤(| ¥ | Р | ß | v | ţ | o k | Day |
|------|---------|-------------------|----------------|----------------|----------------|---------------|--------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|--------|------|
| S 1 | 2 43 47 | 9 M 18'47 | 19 × 29 | 4ML42 | 12 × 21 | 0 Ω 25 | 24953 | 20 × 29 | 13°R30 | 19°R32 | 2 N 9 | 15°R24 | 16 ට 36 | 15 8 43 | 5°R13 | S 1 |
| M 2 | 2 47 43 | 10°19'02 | 3 る 59 | 6°20 | 13°34 | 0°47 | 24°55 | 20°35 | 13耳28 | 19 米 31 | 2°R 9 | 15 云 21 | 16°33 | 15°50 | 59512 | M 2 |
| T 3 | 2 51 40 | 11°19'18 | 18° 1 | 7°58 | 14°48 | 1°8 | 24°57 | 20°41 | 13°26 | 19°30 | 2° 9 | 15°D21 | 16°29 | 15°56 | 5°10 | T 3 |
| W 4 | 2 55 36 | 12°19'36 | 1≈36 | 9°36 | 16° 1 | 1°29 | 24°58 | 20°47 | 13°24 | 19°29 | 2° 9 | 15°21 | 16°26 | 16° 3 | 5° 8 | W 4 |
| T 5 | 2 59 33 | 13°19'55 | 14°47 | 11°13 | 17°14 | 1°50 | 25° 0 | 20°53 | 13°22 | 19°29 | 2° 9 | 15°R22 | 16°23 | 16°10 | 5° 7 | T 5 |
| F 6 | 3 3 29 | 14°20'16 | 27°35 | 12°49 | 18°28 | 2°10 | 25° 1 | 20°59 | 13°20 | 19°28 | 2° 9 | 15°21 | 16°20 | 16°17 | 5° 5 | F 6 |
| S 7 | 3 7 26 | 15°20'38 | 10 ∺ 7 | 14°26 | 19°41 | 2°30 | 25° 2 | 21° 5 | 13°17 | 19°27 | 2° 9 | 15°18 | 16°17 | 16°23 | 5° 3 | S 7 |
| S 8 | 3 11 23 | 16°21'01 | 22°24 | 16° 2 | 20°54 | 2°49 | 25° 2 | 21°11 | 13°15 | 19°26 | 2° 9 | 15°12 | 16°14 | 16°30 | 5° 1 | S 8 |
| M 9 | 3 15 19 | 17°21'26 | 4 Υ 32 | 17°38 | 22° 7 | 3° 8 | 25° 3 | 21°18 | 13°13 | 19°26 | 2° 8 | 15° 4 | 16°10 | 16°37 | 4°59 | M 9 |
| T 10 | 3 19 16 | 18°21'52 | 16°33 | 19°13 | 23°20 | 3°27 | 25° 3 | 21°24 | 13°11 | 19°25 | 2° 8 | 14°54 | 16° 7 | 16°43 | 4°57 | T 10 |
| W11 | 3 23 12 | 19°22'20 | 28°28 | 20°48 | 24°33 | 3°44 | 25°R 3 | 21°30 | 13° 9 | 19°24 | 2° 8 | 14°43 | 16° 4 | 16°50 | 4°54 | W11 |
| T 12 | 3 27 9 | 20°22'49 | 10821 | 22°23 | 25°46 | 4° 2 | 25° 3 | 21°37 | 13° 6 | 19°24 | 2° 8 | 14°32 | 16° 1 | 16°57 | 4°52 | T 12 |
| F 13 | 3 31 5 | 21°23'20 | 22°12 | 23°58 | 26°59 | 4°19 | 25° 3 | 21°43 | 13° 4 | 19°23 | 2° 7 | 14°21 | 15°58 | 17° 3 | 4°50 | F 13 |
| S 14 | 3 35 2 | 22°23'52 | 4 I I 4 | 25°33 | 28°12 | 4°35 | 25° 2 | 21°49 | 13° 2 | 19°23 | 2° 7 | 14°13 | 15°54 | 17°10 | 4°47 | S 14 |
| S 15 | 3 38 58 | 23°24'26 | 15°57 | 27° 7 | 29°25 | 4°51 | 25° 1 | 21°56 | 12°59 | 19°22 | 2° 7 | 14° 6 | 15°51 | 17°17 | 4°45 | S 15 |
| M16 | 3 42 55 | 24°25'02 | 27°55 | 28°41 | 0 云 38 | 5° 7 | 25° 1 | 22° 2 | 12°57 | 19°22 | 2° 6 | 14° 3 | 15°48 | 17°24 | 4°42 | M16 |
| T 17 | 3 46 52 | 25°25'39 | 9 95 58 | 0 ∡ 15 | 1°51 | 5°22 | 24°59 | 22° 9 | 12°55 | 19°21 | 2° 6 | 14°D 1 | 15°45 | 17°30 | 4°39 | T 17 |
| W18 | 3 50 48 | 26°26'18 | 22°11 | 1°48 | 3° 4 | 5°36 | 24°58 | 22°15 | 12°52 | 19°21 | 2° 6 | 14° 1 | 15°42 | 17°37 | 4°37 | W18 |
| T 19 | 3 54 45 | 27°26'58 | 4 Ω 37 | 3°22 | 4°17 | 5°50 | 24°57 | 22°22 | 12°50 | 19°20 | 2° 5 | 14° 2 | 15°39 | 17°44 | 4°34 | T 19 |
| F 20 | 3 58 41 | 28°27'41 | 17°21 | 4°55 | 5°30 | 6° 3 | 24°55 | 22°29 | 12°47 | 19°20 | 2° 5 | 14° 4 | 15°35 | 17°50 | 4°31 | F 20 |
| S 21 | 4 2 38 | 29°28'24 | 0 m 25 | 6°28 | 6°42 | 6°16 | 24°53 | 22°35 | 12°45 | 19°20 | 2° 4 | 14°R 4 | 15°32 | 17°57 | 4°28 | S 21 |
| S 22 | 4 6 34 | 0 ₹ 29'09 | 13°55 | 8° 2 | 7°55 | 6°28 | 24°51 | 22°42 | 12°42 | 19°19 | 2° 4 | 14° 3 | 15°29 | 18° 4 | 4°25 | S 22 |
| M23 | 4 10 31 | 1°29'56 | 27°52 | 9°35 | 9° 8 | 6°39 | 24°49 | 22°49 | 12°40 | 19°19 | 2° 3 | 14° 1 | 15°26 | 18°10 | 4°22 | M23 |
| T 24 | 4 14 27 | 2°30'45 | 12 ≏ 16 | 11° 8 | 10°20 | 6°50 | 24°46 | 22°56 | 12°37 | 19°19 | 2° 3 | 13°56 | 15°23 | 18°17 | 4°19 | T 24 |
| W25 | 4 18 24 | 3°31'35 | 27° 3 | 12°40 | 11°33 | 7° 0 | 24°44 | 23° 2 | 12°35 | 19°19 | 2° 2 | 13°50 | 15°20 | 18°24 | 4°15 | W25 |
| T 26 | 4 22 21 | 4°32'26 | 12 M 9 | 14°13 | 12°46 | 7° 9 | 24°41 | 23° 9 | 12°32 | 19°19 | 2° 1 | 13°44 | 15°16 | 18°31 | 4°12 | T 26 |
| F 27 | 4 26 17 | 5°33'19 | 27°24 | 15°46 | 13°58 | 7°18 | 24°38 | 23°16 | 12°30 | 19°18 | 2° 1 | 13°38 | 15°13 | 18°37 | 4° 9 | F 27 |
| S 28 | 4 30 14 | 6°34'13 | 12 × 36 | 17°18 | 15°11 | 7°26 | 24°34 | 23°23 | 12°27 | 19°18 | 2° 0 | 13°34 | 15°10 | 18°44 | 4° 5 | S 28 |
| S 29 | 4 34 10 | 7°35'08 | 27°37 | 18°51 | 16°23 | 7°34 | 24°31 | 23°30 | 12°25 | 19°18 | 2° 0 | 13°31 | 15° 7 | 18°51 | 4° 2 | S 29 |
| M30 | 4 38 7 | 8 ∡ ³36′04 | 12 る 17 | 20 × 23 | 17 云 35 | 7 Ω 40 | 249527 | 23 × 37 | 12 Ⅱ 22 | 19°D18 | 1 Ω 59 | 13°D30 | 15 궁 4 | 18 8 57 | 3959 | M30 |

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Greg. Calendar

| DECEMBER 1693 GC | 00:00 UT |
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|--------------|--------------------|----------------------------|----------------------------|-----------------|-----------------------|---------------|----------------|----------------|----------------|----------------|-----------------------------------|-----------------|----------------|----------------|---------------|--------------|
| T 1 | 4 42 3 | 9 .7 37'01 | 26 ප 31 | 21 ×7 55 | 18 ට 48 | 7 Ω 46 | 24°R23 | 23 х 44 | 12°R20 | 19 米 18 | 1°R58 | 13 る 30 | 15 る 0 | 198 4 | 3°R55 | T 1 |
| W 2 | 4 46 0 | 10°37'59 | 10≈18 | 23°27 | 20° 0 | 7°52 | 249519 | 23°51 | 12 Ⅱ 17 | 19°18 | 1 Ω 57 | 13°32 | 14°57 | 19°11 | 3 9 52 | W 2 |
| T 3 | 4 49 56 | 11°38'57 | 23°37 | 24°59 | 21°12 | 7°56 | 24°15 | 23°58 | 12°15 | 19°18 | 1°57 | 13°34 | 14°54 | 19°17 | 3°48 | T 3 |
| F 4 | 4 53 53 | 12°39'56 | 6 ¥ 31 | 26°30 | 22°24 | 8° 0 | 24°11 | 24° 4 | 12°12 | 19°19 | 1°56 | 13°35 | 14°51 | 19°24 | 3°44 | F 4 |
| S 5 | 4 57 50 | 13°40'55 | 19° 4 | 28° 1 | 23°36 | 8° 3 | 24° 6 | 24°11 | 12° 9 | 19°19 | 1°55 | 13°R35 | 14°48 | 19°31 | 3°41 | S 5 |
| S 6 | 5 1 46 | 14°41'55 | 1 Y 21 | 2 <u>9</u> °32 | 24°48 | 8° 6 | 24° 2 | 24°18 | 12° 7 | 19°19 | 1°54 | 13°33 | 14°45 | 19°38 | 3°37 | S 6 |
| M 7 | 5 5 43 | 15°42'56 | 13°26 | 1る 3 | 26° 0 | 8° 7 | 23°57 | 24°25 | 12° 4 | 19°19 | 1°53 | 13°31 | 14°41 | 19°44 | 3°33 | M 7 |
| T 8 | 5 9 39 | 16°43'57 | 25°22 | 2°33 | 27°12 | 8° 8 | 23°52 | 24°32 | 12° 2 | 19°19 | 1°52 | 13°27 | 14°38 | 19°51 | 3°29 | T 8 |
| W 9 | 5 13 36 | 17°44'59 | 7 8 14 | 4° 2 | 28°24 | 8°R 8 | 23°46 | 24°40 | 11°59 | 19°20 | 1°52 | 13°22 | 14°35 | 19°58 | 3°25 | W 9 |
| T 10 F 11 | 5 17 32 | 18°46'02 19°47'05 | 19°4 0 ∏ 56 | 5°30 6°58 | 29°36 | 8° 7 8° 6 | 23°41 23°36 | 24°47 24°54 | 11°57 11°54 | 19°20 19°20 | 1°51 1°50 | 13°18 13°14 | 14°32 14°29 | 20° 4 20°11 | 3°22 3°18 | T 10 F 11 |
| S 12 | 5 21 29 5 25 25 | 20°48'09 | 12°52 | 8°24 | 0 ≈ 47 1°59 | 8° 6 8° 3 | 23°30 | 24°54 25° 1 | 11°54 11°52 | 19°20 19°21 | 1°49 | 13°14 13°10 | 14°29 | 20°11 20°18 | 3°14 | S 12 |
| | | | | - | | | | | - | | - | | _ | | | |
| S 13 | 5 29 22 | 21°49'13 | 24°52 | 9°50 | 3°10 | 8° 0 | 23°24 | 25° 8 | 11°49 | 19°21 | 1°48 | 13° 8 | 14°22 | 20°24 | 3°10 | S 13 |
| M14 | 5 33 19 | 22°50'18 | 799 0 | 11°13 | 4°22 | 7°56 | 23°18 | 25°15 | 11°47 | 19°22 | 1°47 | 13° 7 | 14°19 | 20°31 | 3° 6 | M14 |
| T 15 | 5 37 15 | 23°51'23 | 19°16 | 12°35 | 5°33 | 7°51 | 23°12 | 25°22 | 11°44 | 19°22 | 1°46 | 13°D 7 | 14°16 | 20°38 | 3° 2 | T 15 |
| W16 | 5 41 12 | 24°52'30 | 1 Ω 42 | 13°55 | 6°44 | 7°46 | 23° 6 | 25°29 | 11°42 | 19°23 | 1°45 | 13° 8 13° 9 | 14°13 | 20°45 | 2°58 | W16 |
| T 17 F 18 | 5 45 8 5 49 5 | 25°53'36 26°54'44 | 14°20 27°13 | 15°12 16°27 | 7°55 9° 6 | 7°39 7°32 | 22°59 22°53 | 25°36 25°43 | 11°39 11°37 | 19°23 19°24 | 1°44 1°43 | 13° 9 13°10 | 14°10 14° 6 | 20°51 20°58 | 2°54 2°50 | T 17 F 18 |
| S 19 | 5 53 1 | 20° 55' 52 | 10 m)22 | 10°27 | 10°17 | 7°24 | 22°46 | 25°50 | 11°34 | 19°25 | 1°42 | 13°11 | 14° 3 | 20° 5 | 2°46 | S 19 |
| | | | - | | | | | | | | | _ | | | | |
| S 20 | 5 56 58 | 28°57'00 | 23°49 | 18°44 | 11°28 | 7°15 | 22°39 | 25°57 | 11°32 | 19°25 | 1°40 | 13°R12 | 14° 0 | 21°11 | 2°42 | S 20 |
| M21 | 6 0 54 | 29°58'09 | 7 Ω 37 | 19°47 20°43 | 12°39 | 7° 5 | 22°32 | 26° 4 | 11°30 | 19°26 19°27 | 1°39 | 13°12 | 13°57 | 21°18 | 2°37 | M21 |
| T 22 W23 | 6 4 51 6 8 48 | 0 る 59'19 2°0'30 | 21°45 6ML12 | 20°43 21°34 | 13°49 15° 0 | 6°54 6°43 | 22°25 22°18 | 26°11 26°18 | 11°27 11°25 | 19°27 | 1°38 1°37 | 13°11 13°10 | 13°54 13°51 | 21°25 21°31 | 2°33 2°29 | T 22 W23 |
| T 24 | 6 12 44 | 3° 1'41 | 20°54 | 21°34 22°18 | 16°10 | 6°30 | 22°11 | 26°25 | 11°23 | 19°27 | 1°36 | 13° 9 | 13°47 | 21°38 | 2°25 | T 24 |
| F 25 | 6 16 41 | 4° 2'52 | 5 x ⁷ 46 | 22°53 | 17°20 | 6°17 | 22° 4 | 26°32 | 11°20 | 19°29 | 1°35 | 13° 8 | 13°44 | 21°45 | 2°21 | F 25 |
| S 26 | 6 20 37 | 5° 4'04 | 20°40 | 23°20 | 18°31 | 6° 3 | 21°56 | 26°40 | 11°18 | 19°30 | 1°34 | 13° 7 | 13°41 | 21°51 | 2°17 | S 26 |
| S 27 | 6 24 34 | 6° 5'16 | 5 군 29 | 23°38 | 19°41 | 5°49 | 21°49 | 26°47 | 11°16 | 19°31 | 1°32 | 13° 6 | 13°38 | 21°58 | 2°13 | S 27 |
| M28 | 6 24 34 6 28 30 | 7° 6'28 | 20° 4 | 23°38 23°R44 | 19°41 20°51 | 5°49 5°33 | 21°49 21°41 | 26°47 26°54 | 11°16 11°14 | 19°31 19°32 | 1°32 1°31 | 13° 6 13°D 6 | 13°38 13°35 | 21°58 22° 5 | 2°13 | M28 |
| T 29 | 6 28 30 6 32 27 | 8° 7'40 | 20° 4 4 ≈ 20 | 23°K44 23°40 | 20°51 22° 0 | 5°17 | 21°41 21°34 | 26°34 27° 1 | 11°14 11°11 | 19°32 19°33 | 1°30 | 13°D 6 | 13°33 | 22°12 | 2° 5 | T 29 |
| W30 | 6 36 24 | 9° 8'52 | 18°12 | 23°23 | 23°10 | 5° 0 | 21°26 | 27° 8 | 11° 9 | 19°34 | 1°29 | 13° 7 | 13°28 | 22°18 | 2° 1 | W30 |
| T 31 | 6 40 20 | 10중10'03 | 1)(39 | 22 3 55 | 24×19 | $4\Omega 43$ | 219518 | 27 ~ 14 | 11 II 7 | 19) 35 | $1\Omega^{27}$ | 13 궁 8 | 13 ろ 25 | 22825 | 1957 | T 31 |

Delta T = 16.65 sec

JANUARY 1694 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q | ♂ | 4 | ħ |)∤(| ¥ | Р | ů | Ω | ţ | o k | Day |
|--------------|--------------------|-------------------------------|-------------------------|----------------|-------------------------|------------------------|----------------|-----------------------|---------------------------------|-------------------------|---------------|----------------|----------------|----------------|--------------|--------------|
| F 1 | 6 44 17 | 11 궁 11'14 | 14) (41 | 22°R15 | 25≈29 | 4°R24 | 21°R10 | 27 × 721 | 11°R 5 | 19 ∺ 36 | 1°R26 | 13 궁 8 | 13 る 22 | 22832 | 1°R52 | F 1 |
| S 2 | 6 48 13 | 12°12'25 | 27°20 | 21 る 25 | 26°38 | 4 Ω 5 | 2195 2 | 27°28 | 11 II 3 | 19°37 | 1 Ω 25 | 13° 8 | 13°19 | 22°38 | 19548 | S 2 |
| S 3 | 6 52 10 | 13°13'35 | 9 Υ 41 | 20°24 | 27°47 | 3°46 | 20°54 | 27°35 | 11° 1 | 19°38 | 1°24 | 13° 8 | 13°16 | 22°45 | 1°44 | S 3 |
| M 4 T 5 | 6 56 6 7 0 3 | 14°14'45 15°15'54 | 21°47 3 8 43 | 19°15 18° 0 | 28°56 0 ₩ 5 | 3°26 3° 5 | 20°46 20°38 | 27°42 27°49 | 10°59 10°57 | 19°39 19°41 | 1°22 1°21 | 13° 8 13° 8 | 13°12 13° 9 | 22°52 22°58 | 1°40 1°36 | M 4 T 5 |
| W 6 | 7 3 59 | 16°17'03 | 15°34 | 16°41 | 1°13 | 2°44 | 20°30 | 27°56 | 10°57 | 19°42 | 1°20 | 13° 8 | 13° 6 | 23° 5 | 1°33 | W 6 |
| T 7 | 7 7 56 | 17°18'11 | 27°24 | 15°22 | 2°21 | 2°22 | 20°22 | 28° 3 | 10°53 | 19°43 | 1°18 | 13° 9 | 13° 3 | 23°12 | 1°29 | T 7 |
| F 8 | 7 11 53 | 18°19'19 | 9 Ⅱ 18 | 14° 3 | 3°30 | 2° 0 | 20°14 | 28° 9 | 10°51 | 19°44 | 1°17 | 13° 9 | 13° 0 | 23°19 | 1°25 | F 8 |
| S 9 | 7 15 49 | 19°20'26 | 21°17 | 12°48 | 4°38 | 1°38 | 20° 6 | 28°16 | 10°49 | 19°46 | 1°16 | 13°10 | 12°57 | 23°25 | 1°21 | S 9 |
| S 10 | 7 19 46 | 20°21'33 | 3926 | 11°39 | 5°45 | 1°15 | 19°58 | 28°23 | 10°47 | 19°47 | 1°14 | 13°10 | 12°53 | 23°32 | 1°17 | S 10 |
| M11 | 7 23 42 | 21°22'39 | 15°47 | 10°37 | 6°53 | 0°52 | 19°50 | 28°30 | 10°46 | 19°48 | 1°13 | 13°R10 | 12°50 | 23°39 | 1°13 | M11 |
| T 12 | 7 27 39 | 22°23'44 | 28°20 | 9°44 | 8° 0 | 0°29 | 19°42 | 28°36 | 10°44 | 19°50 | 1°12 | 13°10 | 12°47 | 23°45 | 1°10 | T 12 |
| W13 T 14 | 7 31 35 7 35 32 | 23°24'49 24°25'53 | 11 Ω 6 24° 6 | 8°59 8°24 | 9° 7 10°14 | 0° 5 29 © 41 | 19°34 19°26 | 28°43 28°50 | 10°42 10°40 | 19°51 19°53 | 1°10 1° 9 | 13° 9 13° 8 | 12°44 12°41 | 23°52 23°59 | 1° 6 1° 2 | W13 T 14 |
| F 15 | 7 39 28 | 24 23 33 25°26'57 | 7 m)19 | 7°59 | 10 14 11°21 | 29°17 | 19 20 19°18 | 28°56 | 10°40 10°39 | 19°54 | 1° 8 | 13° 6 | 12°38 | 23° 59 | 0°59 | F 15 |
| S 16 | 7 43 25 | 26°28'01 | 20°46 | 7°43 | 12°27 | 28°53 | 19°10 | 29° 3 | 10°37 | 19°56 | 1° 6 | 13° 4 | 12°34 | 24°12 | 0°55 | S 16 |
| S 17 | 7 47 22 | 27°29'03 | 4 Ω 24 | 7°D35 | 13°33 | 28°29 | 19° 2 | 29° 9 | 10°36 | 19°57 | 1° 5 | 13° 3 | 12°31 | 24°19 | 0°51 | S 17 |
| M18 | 7 51 18 | 28°30'06 | 18°15 | 7°36 | 14°39 | 28° 5 | 18°54 | 29°16 | 10°34 | 19°59 | 1° 4 | 13° 2 | 12°28 | 24°25 | 0°48 | M18 |
| T 19 | 7 55 15 | 29°31'08 | 2 m 17 | 7°45 | 15°45 | 27°41 | 18°46 | 29°22 | 10°33 | 20° 0 | 1° 2 | 13°D 2 | 12°25 | 24°32 | 0°45 | T 19 |
| W20 | 7 59 11 | 0≈32'09 | 16°28 | 8° 1 | 16°50 | 27°17 | 18°39 | 29°29 | 10°31 | 20° 2 | 1° 1 | 13° 2 | 12°22 | 24°39 | 0°41 | W20 |
| T 21 F 22 | 8 3 8 8 7 4 | 1°33'11 2°34'11 | 0 ∡ 747 15°11 | 8°23 8°52 | 17°55 19° 0 | 26°54 26°30 | 18°31 18°23 | 29°35 29°41 | 10°30 10°29 | 20° 3 20° 5 | 1° 0 0°58 | 13° 3 13° 5 | 12°18 12°15 | 24°45 24°52 | 0°38 0°35 | T 21 F 22 |
| S 23 | 8 11 1 | 3°35'11 | 29°36 | 9°26 | 20° 5 | 26° 7 | 18°16 | 29°48 | 10°29 | 20° 7 | 0°57 | 13° 6 | 12°12 | 24°59 | 0°31 | S 23 |
| S 24 | 8 14 57 | 4°36'10 | 13 云 59 | 10° 5 | 21° 9 | 25°44 | 18° 8 | 29°54 | 10°26 | 20° 9 | 0°55 | 13°R 6 | 12° 9 | 25° 6 | 0°28 | S 24 |
| M25 | 8 18 54 | 5°37'08 | 28°13 | 10°48 | 22°13 | 25°21 | 18° 1 | 0 る | 10°25 | 20°10 | 0°54 | 13° 6 | 12° 6 | 25°12 | 0°25 | M25 |
| T 26 | 8 22 51 | 6°38'06 | 12 ≈ 14 | 11°36 | 23°17 | 24°58 | 17°53 | 0° 6 | 10°24 | 20°12 | 0°53 | 13° 4 | 12° 3 | 25°19 | 0°22 | T 26 |
| W27 | 8 26 47 | 7°39'02 | 25°58 | 12°28 | 24°20 | 24°37 | 17°46 | 0°12 | 10°23 | 20°14 | 0°51 | 13° 1 | 11°59 | 25°26 | 0°19 | W27 |
| T 28 | 8 30 44 | 8°39'57 | 9 ∺ 23 | 13°23 | 25°23 | 24°15 | 17°39 | 0°19 | 10°22 | 20°16 | 0°50 | 12°57 | 11°56 | 25°32 | 0°16 | T 28 |
| F 29 S 30 | 8 34 40 8 38 37 | 9°40'50 10°41'42 | 22°26 5 Υ 8 | 14°21 15°21 | 26°26 27°28 | 23°54 23°34 | 17°32 17°25 | 0°25 0°31 | 10°21 10°20 | 20°17 20°19 | 0°49 0°47 | 12°52 12°48 | 11°53 11°50 | 25°39 25°46 | 0°13 0°11 | F 29 S 30 |
| S 31 | 8 42 33 | 10 41 42 11 ≈ 42'33 | $17\mathbf{\Upsilon}32$ | 16 ~ 25 | 27 28 28 ¥ 30 | 23 34 | 179518 | 0 31 0 중 36 | 10 <u>2</u> 0 10 Ⅱ 19 | 20 19 20 ¥ 21 | 0 47 | 12 48 | 11 30 | 25 46 | 095 8 | S 30 |
| 3 31 | 0 42 33 | 1124233 | 1/132 | 10023 | 28天30 | 14وخد∠ | 1/2018 | 0030 | 10Д19 | 20 π 21 | 08640 | 12043 | 1104/ | 23032 | 8 دی | 3 31 |

Delta T = 16.61 sec

Greg. Calendar

FEBRUARY 1694 GC 00:00 UT

| Day | Sid.t | 0 | 9 | φ | Ş | o ⁷ | 4 | ħ | ፟፟፟፟፟ | ¥ | 2 | ß | Ω | ţ | Š | Day |
|------|----------|--------------------|-----------------|----------------|----------------|----------------|--------|----------------|-----------------|----------------|---------------|----------------|----------------|----------------|-------|------|
| M 1 | 8 46 30 | 12≈43'23 | 29 Y 41 | 17 る 31 | 29 米 31 | 22°R54 | 17°R12 | 0 궁 42 | 10°R18 | 20 米 23 | 0°R45 | 12°R42 | 11 궁 44 | 25 8 59 | 0°R 5 | M 1 |
| T 2 | 8 50 26 | 13°44'11 | 11839 | 18°39 | 0 Υ 32 | 22936 | 1795 5 | 0°48 | 10 Ⅱ 18 | 20°25 | 0 Ω 43 | 12°D41 | 11°40 | 26° 6 | 0ණ 3 | T 2 |
| W 3 | 8 54 23 | 14°44'57 | 23°30 | 19°49 | 1°33 | 22°18 | 16°59 | 0°54 | 10°17 | 20°27 | 0°42 | 12 る 42 | 11°37 | 26°12 | 0° 0 | W 3 |
| T 4 | 8 58 20 | 15°45'42 | 5 Ⅱ 20 | 21° 1 | 2°33 | 22° 0 | 16°52 | 1° 0 | 10°16 | 20°29 | 0°41 | 12°43 | 11°34 | 26°19 | 29耳58 | T 4 |
| F 5 | 9 2 16 | 16°46'25 | 17°14 | 22°15 | 3°33 | 21°44 | 16°46 | 1° 5 | 10°16 | 20°31 | 0°39 | 12°45 | 11°31 | 26°26 | 29°56 | F 5 |
| S 6 | 9 6 13 | 17°47'07 | 29°16 | 23°30 | 4°32 | 21°28 | 16°40 | 1°11 | 10°15 | 20°33 | 0°38 | 12°47 | 11°28 | 26°32 | 29°53 | S 6 |
| S 7 | 9 10 9 | 18°47'47 | 119931 | 24°47 | 5°31 | 21°12 | 16°34 | 1°16 | 10°15 | 20°35 | 0°37 | 12°R47 | 11°24 | 26°39 | 29°51 | S 7 |
| M 8 | 9 14 6 | 19°48'26 | 24° 2 | 26° 5 | 6°29 | 20°58 | 16°29 | 1°22 | 10°14 | 20°37 | 0°35 | 12°47 | 11°21 | 26°46 | 29°49 | M 8 |
| T 9 | 9 18 2 | 20°49'03 | 6 Ω 51 | 27°25 | 7°27 | 20°44 | 16°23 | 1°27 | 10°14 | 20°39 | 0°34 | 12°44 | 11°18 | 26°53 | 29°47 | T 9 |
| W10 | 9 21 59 | 21°49'38 | 19°58 | 28°46 | 8°24 | 20°31 | 16°18 | 1°33 | 10°13 | 20°41 | 0°33 | 12°40 | 11°15 | 26°59 | 29°45 | W10 |
| T 11 | 9 25 55 | 22°50'12 | 3 m 23 | 0≈ 8 | 9°21 | 20°19 | 16°13 | 1°38 | 10°13 | 20°43 | 0°32 | 12°34 | 11°12 | 27° 6 | 29°43 | T 11 |
| F 12 | 9 29 52 | 23°50'45 | 17° 4 | 1°32 | 10°17 | 20° 7 | 16° 7 | 1°43 | 10°13 | 20°45 | 0°30 | 12°27 | 11° 9 | 27°13 | 29°41 | F 12 |
| S 13 | 9 33 49 | 24°51'16 | 0 ჲ 57 | 2°56 | 11°12 | 19°57 | 16° 3 | 1°48 | 10°13 | 20°47 | 0°29 | 12°20 | 11° 5 | 27°19 | 29°40 | S 13 |
| S 14 | 9 37 45 | 25°51'45 | 14°59 | 4°22 | 12° 7 | 19°47 | 15°58 | 1°53 | 10°12 | 20°49 | 0°28 | 12°14 | 11° 2 | 27°26 | 29°38 | S 14 |
| M15 | 9 41 42 | 26°52'14 | 29° 7 | 5°49 | 13° 1 | 19°38 | 15°53 | 1°58 | 10°12 | 20°51 | 0°27 | 12° 9 | 10°59 | 27°33 | 29°37 | M15 |
| T 16 | 9 45 38 | 27°52'40 | 13 M .17 | 7°17 | 13°55 | 19°29 | 15°49 | 2° 3 | 10°D12 | 20°53 | 0°26 | 12° 6 | 10°56 | 27°39 | 29°35 | T 16 |
| W17 | 9 49 35 | 28°53'06 | 27°26 | 8°46 | 14°48 | 19°22 | 15°45 | 2° 8 | 10°12 | 20°55 | 0°24 | 12°D 5 | 10°53 | 27°46 | 29°34 | W17 |
| T 18 | 9 53 31 | 29°53'31 | 11 ~ 33 | 10°16 | 15°40 | 19°15 | 15°41 | 2°13 | 10°12 | 20°58 | 0°23 | 12° 5 | 10°50 | 27°53 | 29°33 | T 18 |
| F 19 | 9 57 28 | 0) € 53'54 | 25°37 | 11°47 | 16°31 | 19° 9 | 15°37 | 2°18 | 10°13 | 21° 0 | 0°22 | 12° 6 | 10°46 | 27°59 | 29°31 | F 19 |
| S 20 | 10 1 24 | 1°54'15 | 9 궁 37 | 13°20 | 17°22 | 19° 4 | 15°33 | 2°23 | 10°13 | 21° 2 | 0°21 | 12°R 7 | 10°43 | 28° 6 | 29°30 | S 20 |
| S 21 | 10 5 21 | 2°54'36 | 23°30 | 14°53 | 18°12 | 18°59 | 15°30 | 2°27 | 10°13 | 21° 4 | 0°20 | 12° 6 | 10°40 | 28°13 | 29°29 | S 21 |
| M22 | 10 9 18 | 3°54'54 | 7≈17 | 16°27 | 19° 1 | 18°56 | 15°26 | 2°32 | 10°13 | 21° 6 | 0°19 | 12° 4 | 10°37 | 28°19 | 29°28 | M22 |
| T 23 | 10 13 14 | 4°55'11 | 20°53 | 18° 2 | 19°49 | 18°53 | 15°23 | 2°36 | 10°14 | 21° 8 | 0°18 | 11°58 | 10°34 | 28°26 | 29°28 | T 23 |
| W24 | 10 17 11 | 5°55'26 | 4) (18 | 19°39 | 20°36 | 18°51 | 15°20 | 2°41 | 10°14 | 21°11 | 0°17 | 11°51 | 10°30 | 28°33 | 29°27 | W24 |
| T 25 | 10 21 7 | 6°55'39 | 17°28 | 21°16 | 21°23 | 18°50 | 15°17 | 2°45 | 10°14 | 21°13 | 0°15 | 11°41 | 10°27 | 28°39 | 29°26 | T 25 |
| F 26 | 10 25 4 | 7°55'51 | 0 Υ 22 | 22°54 | 22° 8 | 18°D49 | 15°15 | 2°49 | 10°15 | 21°15 | 0°14 | 11°31 | 10°24 | 28°46 | 29°26 | F 26 |
| S 27 | 10 29 0 | 8°56'00 | 12°59 | 24°34 | 22°53 | 18°49 | 15°12 | 2°53 | 10°15 | 21°17 | 0°13 | 11°20 | 10°21 | 28°53 | 29°25 | S 27 |
| S 28 | 10 32 57 | 9 ¥ 56′08 | 25 Y 21 | 26≈14 | 23 Y 36 | 18950 | 159510 | 2 ප් 57 | 10 II 16 | 21 米 20 | 0 Ω 12 | 11 궁 11 | 10중18 | 28 8 59 | 29∏25 | S 28 |

Delta T = 16.58 sec

MARCH 1694 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)f(| ¥ | Р | 'n | Ω | Ç | ę, | Day |
|------|----------|-------------------|----------------|----------------|----------------|--------|--------|---------------|----------------|----------------|--------|----------------|----------------|----------------|----------------|------|
| M 1 | 10 36 53 | 10 米 56'13 | 7 ႘ 29 | 27≈56 | 24 Υ 19 | 18952 | 15°R 8 | 3ට 1 | 10 Ⅱ 17 | 21) 22 | 0°R11 | 11°R 3 | 10 궁 15 | 29 8 6 | 29°R24 | M 1 |
| T 2 | 10 40 50 | 11°56'17 | 19°27 | 29°38 | 25° 0 | 18°54 | 1595 7 | 3° 5 | 10°17 | 21°24 | 0Ω10 | 10 궁 58 | 10°11 | 29°13 | 29∏24 | T 2 |
| W 3 | 10 44 47 | 12°56'18 | 1 Ⅱ 18 | 1) 22 | 25°40 | 18°58 | 15° 5 | 3° 9 | 10°18 | 21°26 | 0° 9 | 10°56 | 10° 8 | 29°19 | 29°24 | W 3 |
| T 4 | 10 48 43 | 13°56'17 | 13° 7 | 3° 7 | 26°19 | 19° 1 | 15° 4 | 3°13 | 10°19 | 21°29 | 0° 8 | 10°D55 | 10° 5 | 29°26 | 29°D24 | T 4 |
| F 5 | 10 52 40 | 14°56'14 | 25° 0 | 4°53 | 26°56 | 19° 6 | 15° 2 | 3°17 | 10°20 | 21°31 | 0° 8 | 10°55 | 10° 2 | 29°33 | 29°24 | F 5 |
| S 6 | 10 56 36 | 15°56'09 | 7 95 2 | 6°40 | 27°33 | 19°11 | 15° 1 | 3°20 | 10°21 | 21°33 | 0° 7 | 10°R56 | 9°59 | 29°40 | 29°24 | S 6 |
| S 7 | 11 033 | 16°56'01 | 19°18 | 8°28 | 28° 8 | 19°17 | 15° 1 | 3°24 | 10°22 | 21°35 | 0° 6 | 10°55 | 9°56 | 29°46 | 29°25 | S 7 |
| M 8 | 11 4 29 | 17°55'51 | 1 N 53 | 10°18 | 28°41 | 19°23 | 15° 0 | 3°27 | 10°23 | 21°38 | 0° 5 | 10°53 | 9°52 | 29°53 | 29°25 | M 8 |
| T 9 | 11 8 26 | 18°55'40 | 14°51 | 12° 8 | 29°13 | 19°30 | 15° 0 | 3°31 | 10°24 | 21°40 | 0° 4 | 10°49 | 9°49 | 29°59 | 29°25 | T 9 |
| W10 | 11 12 22 | 19°55'25 | 28°13 | 14° 0 | 29°44 | 19°38 | 14°59 | 3°34 | 10°25 | 21°42 | 0° 3 | 10°42 | 9°46 | 0 I I 6 | 29°26 | W10 |
| T 11 | 11 16 19 | 20°55'09 | 11 m 58 | 15°53 | 0812 | 19°47 | 14°D59 | 3°37 | 10°26 | 21°44 | 0° 3 | 10°32 | 9°43 | 0°13 | 29°27 | T 11 |
| F 12 | 11 20 16 | 21°54'51 | 26° 3 | 17°47 | 0°40 | 19°55 | 14°59 | 3°40 | 10°27 | 21°47 | 0° 2 | 10°21 | 9°40 | 0°20 | 29°27 | F 12 |
| S 13 | 11 24 12 | 22°54'30 | 10 ≏ 25 | 19°42 | 1° 5 | 20° 5 | 15° 0 | 3°43 | 10°29 | 21°49 | 0° 1 | 10°10 | 9°36 | 0°26 | 29°28 | S 13 |
| S 14 | 11 28 9 | 23°54'08 | 24°56 | 21°39 | 1°29 | 20°15 | 15° 0 | 3°46 | 10°30 | 21°51 | 0° 0 | 10° 0 | 9°33 | 0°33 | 29°29 | S 14 |
| M15 | 11 32 5 | 24°53'44 | 9M29 | 23°36 | 1°51 | 20°26 | 15° 1 | 3°49 | 10°31 | 21°53 | 299559 | 9°51 | 9°30 | 0°40 | 29°30 | M15 |
| T 16 | 11 36 2 | 25°53'18 | 23°59 | 25°34 | 2°11 | 20°37 | 15° 2 | 3°51 | 10°33 | 21°56 | 29°59 | 9°45 | 9°27 | 0°46 | 29°31 | T 16 |
| W17 | 11 39 58 | 26°52'51 | 8 ~ 20 | 27°34 | 2°29 | 20°49 | 15° 3 | 3°54 | 10°34 | 21°58 | 29°58 | 9°42 | 9°24 | 0°53 | 29°32 | W17 |
| T 18 | 11 43 55 | 27°52'22 | 22°30 | 29°34 | 2°45 | 21° 1 | 15° 5 | 3°57 | 10°36 | 22° 0 | 29°58 | 9°41 | 9°21 | 1° 0 | 29°33 | T 18 |
| F 19 | 11 47 51 | 28°51'51 | 6 云 28 | 1 Y 35 | 2°59 | 21°14 | 15° 6 | 3°59 | 10°37 | 22° 3 | 29°57 | 9°41 | 9°17 | 1° 6 | 29°35 | F 19 |
| S 20 | 11 51 48 | 29°51'18 | 20°13 | 3°36 | 3°11 | 21°27 | 15° 8 | 4° 1 | 10°39 | 22° 5 | 29°56 | 9°41 | 9°14 | 1°13 | 29°36 | S 20 |
| S 21 | 11 55 45 | 0 Υ 50'44 | 3≈47 | 5°38 | 3°21 | 21°41 | 15°10 | 4° 4 | 10°41 | 22° 7 | 29°56 | 9°39 | 9°11 | 1°20 | 29°38 | S 21 |
| M22 | 11 59 41 | 1°50'07 | 17°10 | 7°40 | 3°29 | 21°55 | 15°12 | 4° 6 | 10°42 | 22° 9 | 29°55 | 9°35 | 9° 8 | 1°26 | 29°39 | M22 |
| T 23 | 12 3 38 | 2°49'29 | 0 ∺ 23 | 9°42 | 3°34 | 22°10 | 15°14 | 4° 8 | 10°44 | 22°12 | 29°55 | 9°27 | 9° 5 | 1°33 | 29°41 | T 23 |
| W24 | 12 7 34 | 3°48'49 | 13°24 | 11°44 | 3°37 | 22°25 | 15°16 | 4°10 | 10°46 | 22°14 | 29°54 | 9°17 | 9° 1 | 1°40 | 29°43 | W24 |
| T 25 | 12 11 31 | 4°48'07 | 26°14 | 13°45 | 3°R38 | 22°40 | 15°19 | 4°12 | 10°48 | 22°16 | 29°54 | 9° 5 | 8°58 | 1°46 | 29°44 | T 25 |
| F 26 | 12 15 27 | 5°47'23 | 8 Ƴ 52 | 15°46 | 3°36 | 22°57 | 15°22 | 4°14 | 10°50 | 22°18 | 29°53 | 8°51 | 8°55 | 1°53 | 29°46 | F 26 |
| S 27 | 12 19 24 | 6°46'36 | 21°18 | 17°45 | 3°31 | 23°13 | 15°25 | 4°15 | 10°52 | 22°21 | 29°53 | 8°37 | 8°52 | 2° 0 | 29°48 | S 27 |
| S 28 | 12 23 20 | 7°45'48 | 3 8 31 | 19°43 | 3°25 | 23°30 | 15°28 | 4°17 | 10°54 | 22°23 | 29°53 | 8°24 | 8°49 | 2° 6 | 29°51 | S 28 |
| M29 | 12 27 17 | 8°44'58 | 15°34 | 21°38 | 3°15 | 23°48 | 15°31 | 4°18 | 10°56 | 22°25 | 29°52 | 8°14 | 8°46 | 2°13 | 29°53 | M29 |
| T 30 | 12 31 13 | 9°44'05 | 27°29 | 23°31 | 3° 4 | 24° 5 | 15°35 | 4°20 | 10°58 | 22°27 | 29°52 | 8° 6 | 8°42 | 2°20 | 29°55 | T 30 |
| W31 | 12 35 10 | 10 ° 43'10 | 9∏18 | 25 Y 22 | 2 8 50 | 249524 | 15939 | 4 ට 21 | 11 I 0 | 22 米 29 | 29952 | 8 ට 1 | 8 건 39 | 2 II 26 | 29 Ⅱ 57 | W31 |

Delta T = 16.55 sec Gr

Greg. Calendar

APRIL 1694 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | В | v | Ω | Ç | Š | Day |
|------|----------|-------------------|------------------|----------------|----------------|---------------|--------|---------------|----------------|----------------|--------|---------------|---------------|---------------|-------|------|
| T 1 | 12 39 7 | 11 ° 42'13 | 21 I I 6 | 27 Υ 10 | 2°R33 | 249542 | 159543 | 4 る 22 | 11 I 2 | 22) 32 | 29°R51 | 7°R58 | 8 ට 36 | 2 Ⅲ 33 | 29∏59 | T 1 |
| F 2 | 12 43 3 | 12°41'13 | 2957 | 28°54 | 2814 | 25° 1 | 15°47 | 4°23 | 11° 4 | 22°34 | 29951 | 7 云 58 | 8°33 | 2°40 | 0ණ 2 | F 2 |
| S 3 | 12 47 0 | 13°40'12 | 14°57 | 0 8 34 | 1°52 | 25°20 | 15°51 | 4°24 | 11° 6 | 22°36 | 29°51 | 7°57 | 8°30 | 2°46 | 0° 5 | S 3 |
| S 4 | 12 50 56 | 14°39'08 | 27°12 | 2°10 | 1°29 | 25°40 | 15°55 | 4°25 | 11° 9 | 22°38 | 29°51 | 7°57 | 8°27 | 2°53 | 0°8 | S 4 |
| M 5 | 12 54 53 | 15°38'01 | 9 Ω 46 | 3°41 | 1° 3 | 26° 0 | 16° 0 | 4°26 | 11°11 | 22°40 | 29°50 | 7°55 | 8°23 | 3° 0 | 0°10 | M 5 |
| T 6 | 12 58 49 | 16°36'53 | 22°45 | 5° 8 | 0°35 | 26°21 | 16° 5 | 4°27 | 11°13 | 22°42 | 29°50 | 7°51 | 8°20 | 3° 6 | 0°13 | T 6 |
| W 7 | 13 2 46 | 17°35'42 | 6 m)10 | 6°30 | 0° 5 | 26°41 | 16° 9 | 4°28 | 11°16 | 22°44 | 29°50 | 7°44 | 8°17 | 3°13 | 0°16 | W 7 |
| T 8 | 13 6 42 | 18°34'28 | 20° 4 | 7°47 | 29 Y 34 | 27° 3 | 16°14 | 4°28 | 11°18 | 22°46 | 29°50 | 7°35 | 8°14 | 3°20 | 0°19 | T 8 |
| F 9 | 13 10 39 | 19°33'13 | 4 ≏ 24 | 8°59 | 29° 1 | 27°24 | 16°20 | 4°28 | 11°21 | 22°49 | 29°50 | 7°25 | 8°11 | 3°26 | 0°22 | F 9 |
| S 10 | 13 14 36 | 20°31'55 | 19° 5 | 10° 5 | 28°26 | 27°46 | 16°25 | 4°29 | 11°23 | 22°51 | 29°50 | 7°13 | 8° 7 | 3°33 | 0°25 | S 10 |
| S 11 | 13 18 32 | 21°30'36 | 3 M .58 | 11° 6 | 27°51 | 28° 8 | 16°31 | 4°29 | 11°26 | 22°53 | 29°50 | 7° 3 | 8° 4 | 3°40 | 0°29 | S 11 |
| M12 | 13 22 29 | 22°29'15 | 18°56 | 12° 0 | 27°14 | 28°30 | 16°36 | 4°29 | 11°28 | 22°55 | 29°D50 | 6°54 | 8° 1 | 3°46 | 0°32 | M12 |
| T 13 | 13 26 25 | 23°27'52 | 3 ∡ 750 | 12°49 | 26°37 | 28°53 | 16°42 | 4°R29 | 11°31 | 22°57 | 29°50 | 6°48 | 7°58 | 3°53 | 0°35 | T 13 |
| W14 | 13 30 22 | 24°26'27 | 1 <u>8</u> °31 | 13°33 | 25°59 | 29°16 | 16°48 | 4°29 | 11°33 | 22°59 | 29°50 | 6°45 | 7°55 | 4° 0 | 0°39 | W14 |
| T 15 | 13 34 18 | 25°25'01 | 2 3 55 | 14°10 | 25°21 | 29°39 | 16°54 | 4°29 | 11°36 | 23° 1 | 29°50 | 6°D44 | 7°52 | 4° 6 | 0°42 | T 15 |
| F 16 | 13 38 15 | 26°23'33 | 16°59 | 14°41 | 24°43 | 0 Ω 2 | 17° 1 | 4°29 | 11°39 | 23° 3 | 29°50 | 6°44 | 7°48 | 4°13 | 0°46 | F 16 |
| S 17 | 13 42 11 | 27°22'03 | 0≈45 | 15° 6 | 24° 6 | 0°26 | 17° 7 | 4°28 | 11°42 | 23° 5 | 29°50 | 6°R44 | 7°45 | 4°20 | 0°49 | S 17 |
| S 18 | 13 46 8 | 28°20'32 | 14°11 | 15°26 | 23°29 | 0°50 | 17°14 | 4°28 | 11°44 | 23° 7 | 29°50 | 6°43 | 7°42 | 4°26 | 0°53 | S 18 |
| M19 | 13 50 5 | 29°18'59 | 27°22 | 15°39 | 22°52 | 1°14 | 17°20 | 4°27 | 11°47 | 23° 9 | 29°50 | 6°40 | 7°39 | 4°33 | 0°57 | M19 |
| T 20 | 13 54 1 | 0 8 17'24 | 10) (18 | 15°47 | 22°17 | 1°39 | 17°27 | 4°27 | 11°50 | 23°11 | 29°51 | 6°34 | 7°36 | 4°40 | 1° 1 | T 20 |
| W21 | 13 57 58 | 1°15'48 | 23° 1 | 15°R49 | 21°43 | 2° 4 | 17°34 | 4°26 | 11°53 | 23°12 | 29°51 | 6°26 | 7°32 | 4°46 | 1° 5 | W21 |
| T 22 | 14 1 54 | 2°14'10 | 5 Υ 32 | 15°45 | 21°11 | 2°29 | 17°41 | 4°25 | 11°56 | 23°14 | 29°51 | 6°15 | 7°29 | 4°53 | 1° 9 | T 22 |
| F 23 | 14 5 51 | 3°12'30 | 17°53 | 15°36 | 20°40 | 2°54 | 17°49 | 4°24 | 11°59 | 23°16 | 29°51 | 6° 4 | 7°26 | 5° 0 | 1°13 | F 23 |
| S 24 | 14 9 47 | 4°10'49 | 0 8 5 | 15°22 | 20°11 | 3°19 | 17°56 | 4°23 | 12° 2 | 23°18 | 29°52 | 5°52 | 7°23 | 5° 6 | 1°17 | S 24 |
| S 25 | 14 13 44 | 5° 9'06 | 12° 9 | 15° 4 | 19°43 | 3°45 | 18° 4 | 4°22 | 12° 5 | 23°20 | 29°52 | 5°42 | 7°20 | 5°13 | 1°21 | S 25 |
| M26 | 14 17 40 | 6° 7'21 | 24° 5 | 14°41 | 19°18 | 4°11 | 18°11 | 4°21 | 12° 8 | 23°22 | 29°52 | 5°33 | 7°17 | 5°20 | 1°25 | M26 |
| T 27 | 14 21 37 | 7° 5'34 | 5 Ⅱ 55 | 14°14 | 18°55 | 4°37 | 18°19 | 4°19 | 12°11 | 23°23 | 29°53 | 5°26 | 7°13 | 5°26 | 1°30 | T 27 |
| W28 | 14 25 34 | 8° 3'46 | 17°42 | 13°44 | 18°34 | 5° 4 | 18°27 | 4°18 | 12°14 | 23°25 | 29°53 | 5°22 | 7°10 | 5°33 | 1°34 | W28 |
| T 29 | 14 29 30 | 9° 1'56 | 29°30 | 13°11 | 18°16 | 5°30 | 18°35 | 4°16 | 12°17 | 23°27 | 29°54 | 5°20 | 7° 7 | 5°40 | 1°38 | T 29 |
| F 30 | 14 33 27 | 108 0'03 | 119521 | 12836 | 18 Y 0 | 5 Ω 57 | 189543 | 4 정 15 | 12 Ⅱ 20 | 23 米 29 | 29954 | 5°D20 | 7 る 4 | 5 Ⅱ 46 | 19543 | F 30 |

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|------|----------|------------------|-----------------|----------------|----------------|----------------|--------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|-------|------|
| S 1 | 14 37 23 | 10858'09 | 23921 | 12°R 0 | 17°R46 | 6 Ω 24 | 18952 | 4°R13 | 12 Ⅲ 23 | 23) 30 | 29955 | 5 る 21 | 7ට 1 | 5 Ⅱ 53 | 19548 | S 1 |
| S 2 | 14 41 20 | 11°56'13 | 5 Ω 34 | 11823 | 17 Y 34 | 6°52 | 19° 0 | 4 궁 11 | 12°26 | 23°32 | 29°55 | 5°22 | 6°58 | 6° 0 | 1°52 | S 2 |
| M 3 | 14 45 16 | 12°54'15 | 18° 6 | 10°45 | 17°25 | 7°19 | 19° 9 | 4°10 | 12°29 | 23°34 | 29°56 | 5°R22 | 6°54 | 6° 6 | 1°57 | M 3 |
| T 4 | 14 49 13 | 13°52'15 | 1 m p 1 | 10° 9 | 17°19 | 7°47 | 19°17 | 4° 8 | 12°33 | 23°35 | 29°56 | 5°20 | 6°51 | 6°13 | 2° 2 | T 4 |
| W 5 | 14 53 9 | 14°50'13 | 14°24 | 9°33 | 17°15 | 8°15 | 19°26 | 4° 6 | 12°36 | 23°37 | 29°57 | 5°17 | 6°48 | 6°20 | 2° 6 | W 5 |
| T 6 | 14 57 6 | 15°48'09 | 28°15 | 8°59 | 17°D13 | 8°43 | 19°35 | 4° 3 | 12°39 | 23°38 | 29°57 | 5°12 | 6°45 | 6°26 | 2°11 | T 6 |
| F 7 | 15 1 3 | 16°46'03 | 12 Ω 35 | 8°27 | 17°13 | 9°11 | 19°44 | 4° 1 | 12°42 | 23°40 | 29°58 | 5° 5 | 6°42 | 6°33 | 2°16 | F 7 |
| S 8 | 15 4 59 | 17°43'56 | 27°20 | 7°58 | 17°16 | 9°39 | 19°53 | 3°59 | 12°46 | 23°41 | 29°59 | 4°58 | 6°38 | 6°40 | 2°21 | S 8 |
| S 9 | 15 8 56 | 18°41'47 | 12 M 23 | 7°33 | 17°22 | 10° 8 | 20° 2 | 3°57 | 12°49 | 23°43 | 29°59 | 4°51 | 6°35 | 6°46 | 2°26 | S 9 |
| M10 | 15 12 52 | 19°39'36 | 27°34 | 7°11 | 17°29 | 10°36 | 20°12 | 3°54 | 12°52 | 23°44 | 0Ω 0 | 4°45 | 6°32 | 6°53 | 2°31 | M10 |
| T 11 | 15 16 49 | 20°37'25 | 12 ~ 45 | 6°53 | 17°39 | 11° 5 | 20°21 | 3°52 | 12°56 | 23°46 | 0° 1 | 4°42 | 6°29 | 7° 0 | 2°36 | T 11 |
| W12 | 15 20 45 | 21°35'12 | 27°44 | 6°39 | 17°50 | 11°34 | 20°31 | 3°49 | 12°59 | 23°47 | 0° 2 | 4°D40 | 6°26 | 7° 6 | 2°41 | W12 |
| T 13 | 15 24 42 | 22°32'57 | 12 る 25 | 6°29 | 18° 4 | 12° 3 | 20°40 | 3°46 | 13° 2 | 23°49 | 0° 2 | 4°40 | 6°23 | 7°13 | 2°46 | T 13 |
| F 14 | 15 28 38 | 23°30'42 | 26°44 | 6°24 | 18°20 | 12°33 | 20°50 | 3°44 | 13° 6 | 23°50 | 0° 3 | 4°41 | 6°19 | 7°20 | 2°52 | F 14 |
| S 15 | 15 32 35 | 24°28'25 | 10≈38 | 6°D23 | 18°38 | 13° 2 | 21° 0 | 3°41 | 13° 9 | 23°51 | 0° 4 | 4°42 | 6°16 | 7°26 | 2°57 | S 15 |
| S 16 | 15 36 32 | 25°26'07 | 24° 8 | 6°27 | 18°57 | 13°32 | 21°10 | 3°38 | 13°13 | 23°53 | 0° 5 | 4°R43 | 6°13 | 7°33 | 3° 2 | S 16 |
| M17 | 15 40 28 | 26°23'49 | 7) (17 | 6°35 | 19°19 | 14° 2 | 21°20 | 3°35 | 13°16 | 23°54 | 0° 6 | 4°43 | 6°10 | 7°40 | 3° 7 | M17 |
| T 18 | 15 44 25 | 27°21'29 | 20° 6 | 6°48 | 19°42 | 14°32 | 21°30 | 3°32 | 13°19 | 23°55 | 0° 7 | 4°40 | 6° 7 | 7°46 | 3°13 | T 18 |
| W19 | 15 48 21 | 28°19'08 | 2 Υ 39 | 7° 6 | 20° 7 | 15° 2 | 21°40 | 3°29 | 13°23 | 23°56 | 0° 8 | 4°37 | 6° 4 | 7°53 | 3°18 | W19 |
| T 20 | 15 52 18 | 29°16'46 | 14°58 | 7°27 | 20°33 | 15°32 | 21°50 | 3°25 | 13°26 | 23°58 | 0° 9 | 4°32 | 6° 0 | 8° 0 | 3°24 | T 20 |
| F 21 | 15 56 14 | 0 Ⅱ 14'23 | 27° 7 | 7°53 | 21° 1 | 16° 3 | 22° 1 | 3°22 | 13°30 | 23°59 | 0° 9 | 4°26 | 5°57 | 8° 6 | 3°29 | F 21 |
| S 22 | 16 011 | 1°11'59 | 9 8 8 | 8°24 | 21°31 | 16°33 | 22°11 | 3°19 | 13°33 | 24° 0 | 0°10 | 4°20 | 5°54 | 8°13 | 3°35 | S 22 |
| S 23 | 16 4 7 | 2° 9'34 | 21° 3 | 8°58 | 22° 2 | 17° 4 | 22°22 | 3°15 | 13°37 | 24° 1 | 0°11 | 4°14 | 5°51 | 8°20 | 3°40 | S 23 |
| M24 | 16 8 4 | 3° 7'08 | 2 II 53 | 9°36 | 22°34 | 17°35 | 22°32 | 3°12 | 13°40 | 24° 2 | 0°13 | 4°10 | 5°48 | 8°26 | 3°46 | M24 |
| T 25 | 16 12 1 | 4° 4'41 | 14°41 | 10°19 | 23° 8 | 18° 6 | 22°43 | 3° 8 | 13°44 | 24° 3 | 0°14 | 4° 7 | 5°44 | 8°33 | 3°52 | T 25 |
| W26 | 16 15 57 | 5° 2'13 | 26°29 | 11° 5 | 23°43 | 18°37 | 22°54 | 3° 5 | 13°47 | 24° 4 | 0°15 | 4° 5 | 5°41 | 8°40 | 3°58 | W26 |
| T 27 | 16 19 54 | 5°59'44 | 89519 | 11°54 | 24°19 | 19°8 | 23° 5 | 3° 1 | 13°51 | 24° 5 | 0°16 | 4°D 5 | 5°38 | 8°46 | 4° 3 | T 27 |
| F 28 | 16 23 50 | 6°57'13 | 20°14 | 12°47 | 24°57 | 19°39 | 23°16 | 2°57 | 13°54 | 24° 6 | 0°17 | 4° 6 | 5°35 | 8°53 | 4° 9 | F 28 |
| S 29 | 16 27 47 | 7°54'41 | 2 Ω 18 | 13°44 | 25°35 | 20°11 | 23°27 | 2°54 | 13°58 | 24° 7 | 0°18 | 4° 7 | 5°32 | 9° 0 | 4°15 | S 29 |
| S 30 | 16 31 43 | 8°52'08 | 14°34 | 14°44 | 26°15 | 20°42 | 23°38 | 2°50 | 14° 2 | 24° 8 | 0°19 | 4° 9 | 5°29 | 9° 6 | 4°21 | S 30 |
| M31 | 16 35 40 | 9 Ⅱ 49'34 | 27 N 7 | 15 8 48 | 26 Y 55 | 21 Ω 14 | 239549 | 2 ප් 46 | 14 Ⅱ 5 | 24 米 9 | 0 Ω 20 | 4 る 10 | 5 云 25 | 9 Ⅱ 13 | 49527 | M31 |
| | | | | - | • | | | | | | | | | | | |

Delta T = 16.47 sec

Greg. Calendar

JUNE 1694 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | Р | v | Ω | Ç | Š | Day |
|------|----------|-------------------|-----------------|----------------|----------------|----------------|--------|---------------|----------------|-----------------|--------------|---------------|---------------|----------------|------|------|
| T 1 | 16 39 36 | 10 Ⅱ 46′59 | 10 M) 0 | 16 8 54 | 27 Y 37 | 21 Ω 46 | 2495 1 | 2°R42 | 14Ⅱ 9 | 24) (10 | 0Ω21 | 4°R11 | 5 る 22 | 9∏20 | 4932 | T 1 |
| W 2 | 16 43 33 | 11°44'22 | 23°17 | 18° 4 | 28°20 | 22°18 | 24°12 | 2 ප 38 | 14°12 | 24°11 | 0°23 | 4 る 10 | 5°19 | 9°26 | 4°38 | W 2 |
| T 3 | 16 47 30 | 12°41'44 | 7 ♀ 1 | 19°17 | 29° 3 | 22°50 | 24°23 | 2°34 | 14°16 | 24°11 | 0°24 | 4° 9 | 5°16 | 9°33 | 4°44 | T 3 |
| F 4 | 16 51 26 | 13°39'05 | 21°11 | 20°33 | 29°48 | 23°22 | 24°35 | 2°30 | 14°19 | 24°12 | 0°25 | 4° 7 | 5°13 | 9°40 | 4°50 | F 4 |
| S 5 | 16 55 23 | 14°36'26 | 5 M .47 | 21°53 | 0 8 33 | 23°54 | 24°46 | 2°26 | 14°23 | 24°13 | 0°26 | 4° 4 | 5°10 | 9°46 | 4°56 | S 5 |
| S 6 | 16 59 19 | 15°33'45 | 20°44 | 23°15 | 1°19 | 24°27 | 24°58 | 2°22 | 14°26 | 24°14 | 0°28 | 4° 2 | 5° 6 | 9°53 | 5° 2 | S 6 |
| M 7 | 17 3 16 | 16°31'03 | 5 ₹ 53 | 24°40 | 2° 6 | 24°59 | 25°10 | 2°18 | 14°30 | 24°14 | 0°29 | 4° 0 | 5° 3 | 10° 0 | 5° 8 | M 7 |
| T 8 | 17 7 12 | 17°28'21 | 21° 6 | 26° 8 | 2°54 | 25°32 | 25°21 | 2°14 | 14°34 | 24°15 | 0°30 | 3°59 | 5° 0 | 10° 6 | 5°14 | T 8 |
| W 9 | 17 11 9 | 18°25'38 | 6 ප 13 | 27°39 | 3°43 | 26° 5 | 25°33 | 2° 9 | 14°37 | 24°15 | 0°32 | 3°D59 | 4°57 | 10°13 | 5°21 | W 9 |
| T 10 | 17 15 5 | 19°22'55 | 21° 5 | 29°13 | 4°32 | 26°38 | 25°45 | 2° 5 | 14°41 | 24°16 | 0°33 | 3°59 | 4°54 | 10°20 | 5°27 | T 10 |
| F 11 | 17 19 2 | 20°20'11 | 5≈36 | 0Д50 | 5°22 | 27°11 | 25°57 | 2° 1 | 14°44 | 24°17 | 0°34 | 4° 0 | 4°50 | 10°26 | 5°33 | F 11 |
| S 12 | 17 22 59 | 21°17'26 | 19°41 | 2°29 | 6°13 | 27°44 | 26° 9 | 1°57 | 14°48 | 24°17 | 0°36 | 4° 1 | 4°47 | 10°33 | 5°39 | S 12 |
| S 13 | 17 26 55 | 22°14'42 | 3 ∺ 20 | 4°12 | 7° 4 | 28°17 | 26°21 | 1°52 | 14°51 | 24°17 | 0°37 | 4° 2 | 4°44 | 10°40 | 5°45 | S 13 |
| M14 | 17 30 52 | 23°11'57 | 16°34 | 5°57 | 7°56 | 28°50 | 26°33 | 1°48 | 14°55 | 24°18 | 0°38 | 4° 2 | 4°41 | 10°46 | 5°51 | M14 |
| T 15 | 17 34 48 | 24° 9'11 | 29°24 | 7°45 | 8°48 | 29°23 | 26°45 | 1°44 | 14°58 | 24°18 | 0°40 | 4°R 2 | 4°38 | 10°53 | 5°58 | T 15 |
| W16 | 17 38 45 | 25° 6'26 | 11 Y 54 | 9°36 | 9°41 | 29°57 | 26°57 | 1°39 | 15° 2 | 24°19 | 0°41 | 4° 2 | 4°35 | 11° 0 | 6° 4 | W16 |
| T 17 | 17 42 41 | 26° 3'41 | 24° 9 | 11°29 | 10°35 | 0 m 30 | 27° 9 | 1°35 | 15° 5 | 24°19 | 0°43 | 4° 1 | 4°31 | 11° 6 | 6°10 | T 17 |
| F 18 | 17 46 38 | 27° 0'55 | 6812 | 13°25 | 11°29 | 1° 4 | 27°22 | 1°31 | 15° 9 | 24°19 | 0°44 | 4° 0 | 4°28 | 11°13 | 6°16 | F 18 |
| S 19 | 17 50 34 | 27°58'09 | 18° 6 | 15°23 | 12°24 | 1°38 | 27°34 | 1°26 | 15°12 | 24°20 | 0°46 | 3°59 | 4°25 | 11°20 | 6°23 | S 19 |
| S 20 | 17 54 31 | 28°55'23 | 29°56 | 17°24 | 13°19 | 2°12 | 27°46 | 1°22 | 15°16 | 24°20 | 0°47 | 3°59 | 4°22 | 11°26 | 6°29 | S 20 |
| M21 | 17 58 28 | 29°52'37 | 11 Ⅱ 43 | 19°26 | 14°15 | 2°46 | 27°59 | 1°17 | 15°19 | 24°20 | 0°49 | 3°58 | 4°19 | 11°33 | 6°35 | M21 |
| T 22 | 18 2 24 | 09349'51 | 23°32 | 21°31 | 15°11 | 3°20 | 28°11 | 1°13 | 15°23 | 24°20 | 0°50 | 3°58 | 4°16 | 11°40 | 6°41 | T 22 |
| W23 | 18 621 | 1°47'05 | 5 9 23 | 23°37 | 16° 8 | 3°54 | 28°24 | 1° 8 | 15°26 | 24°20 | 0°52 | 3°D58 | 4°12 | 11°46 | 6°48 | W23 |
| T 24 | 18 10 17 | 2°44'18 | 17°20 | 25°45 | 17° 5 | 4°28 | 28°36 | 1° 4 | 15°30 | 24°20 | 0°53 | 3°58 | 4° 9 | 11°53 | 6°54 | T 24 |
| F 25 | 18 14 14 | 3°41'31 | 29°24 | 27°54 | 18° 2 | 5° 2 | 28°49 | 1° 0 | 15°33 | 24°21 | 0°55 | 3°R58 | 4° 6 | 11°59 | 7° 0 | F 25 |
| S 26 | 18 18 10 | 4°38'44 | 11 Ω 38 | 0න 3 | 19° 0 | 5°37 | 29° 2 | 0°55 | 15°37 | 24°21 | 0°56 | 3°58 | 4° 3 | 12° 6 | 7° 7 | S 26 |
| S 27 | 18 22 7 | 5°35'57 | 24° 4 | 2°13 | 19°58 | 6°11 | 29°14 | 0°51 | 15°40 | 24°R21 | 0°58 | 3°58 | 4° 0 | 12°13 | 7°13 | S 27 |
| M28 | 18 26 3 | 6°33'09 | 6 m 45 | 4°24 | 20°57 | 6°46 | 29°27 | 0°46 | 15°43 | 24°21 | 1° 0 | 3°58 | 3°56 | 12°19 | 7°19 | M28 |
| T 29 | 18 30 0 | 7°30'21 | 19°42 | 6°35 | 21°56 | 7°21 | 29°40 | 0°42 | 15°47 | 24°20 | 1° 1 | 3°57 | 3°53 | 12°26 | 7°26 | T 29 |
| W30 | 18 33 57 | 8927'33 | 2 ≙ 59 | 8 9 45 | 22 8 55 | 7 m 55 | 29952 | 0 궁 38 | 15 Ⅱ 50 | 24) 20 | 1 0 3 | 3°D57 | 3 ප 50 | 12 Ⅱ 33 | 7932 | W30 |

Delta T = 16.44 sec

JULY 1694 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)f(| ¥ | Р | ß | Ω | Ç | ٥٨ | Day |
|------|----------|-----------------|----------------|---------------|----------------|----------------|---------------|-----------------|----------------|-----------------|---------------|---------------|---------------|----------------|--------|------|
| T 1 | 18 37 53 | 99524'44 | 16 ≏ 37 | 10955 | 23 8 55 | 8 m /30 | ON 5 | 0°R33 | 15 Ⅱ 53 | 24°R20 | 1 Ω 4 | 3 ට 57 | 3 ප 47 | 12 Ⅱ 39 | 7938 | T 1 |
| F 2 | 18 41 50 | 10°21'55 | 0 M .36 | 13° 4 | 24°55 | 9° 5 | 0°18 | 0 궁 29 | 15°57 | 24) (20 | 1° 6 | 3°58 | 3°44 | 12°46 | 7°45 | F 2 |
| S 3 | 18 45 46 | 11°19'06 | 14°57 | 15°12 | 25°55 | 9°40 | 0°31 | 0°25 | 16° 0 | 24°20 | 1° 8 | 3°58 | 3°41 | 12°53 | 7°51 | S 3 |
| S 4 | 18 49 43 | 12°16'17 | 29°37 | 17°19 | 26°55 | 10°15 | 0°44 | 0°20 | 16° 3 | 24°20 | 1° 9 | 3°59 | 3°37 | 12°59 | 7°57 | S 4 |
| M 5 | 18 53 39 | 13°13'28 | 14 × 30 | 19°25 | 27°56 | 10°50 | 0°57 | 0°16 | 16° 7 | 24°19 | 1°11 | 3°59 | 3°34 | 13° 6 | 8° 4 | M 5 |
| T 6 | 18 57 36 | 14°10'39 | 29°30 | 21°29 | 28°58 | 11°26 | 1°10 | 0°12 | 16°10 | 24°19 | 1°12 | 4°R 0 | 3°31 | 13°13 | 8°10 | T 6 |
| W 7 | 19 1 33 | 15° 7'51 | 14 る 30 | 23°32 | 29°59 | 12° 1 | 1°23 | 0° 8 | 16°13 | 24°19 | 1°14 | 4° 0 | 3°28 | 13°19 | 8°16 | W 7 |
| T 8 | 19 5 29 | 16° 5'02 | 29°20 | 25°33 | 1 I 1 | 12°36 | 1°36 | 0° 4 | 16°16 | 24°19 | 1°16 | 3°59 | 3°25 | 13°26 | 8°23 | T 8 |
| F 9 | 19 9 26 | 17° 2'14 | 13≈53 | 27°32 | 2° 3 | 13°12 | 1°49 | 29 × 759 | 16°19 | 24°18 | 1°17 | 3°58 | 3°22 | 13°33 | 8°29 | F 9 |
| S 10 | 19 13 22 | 17°59'26 | 28° 5 | 29°30 | 3° 5 | 13°47 | 2° 2 | 29°55 | 16°23 | 24°18 | 1°19 | 3°56 | 3°18 | 13°39 | 8°35 | S 10 |
| S 11 | 19 17 19 | 18°56'38 | 11 米 50 | 1 Ω 26 | 4° 8 | 14°23 | 2°15 | 29°51 | 16°26 | 24°17 | 1°21 | 3°54 | 3°15 | 13°46 | 8°42 | S 11 |
| M12 | 19 21 15 | 19°53'52 | 25° 9 | 3°20 | 5°11 | 14°59 | 2°28 | 29°47 | 16°29 | 24°17 | 1°23 | 3°53 | 3°12 | 13°53 | 8°48 | M12 |
| T 13 | 19 25 12 | 20°51'05 | 8 ♈ 4 | 5°13 | 6°14 | 15°35 | 2°41 | 29°43 | 16°32 | 24°16 | 1°24 | 3°51 | 3° 9 | 13°59 | 8°54 | T 13 |
| W14 | 19 29 8 | 21°48'20 | 20°36 | 7° 3 | 7°18 | 16°11 | 2°54 | 29°39 | 16°35 | 24°16 | 1°26 | 3°D51 | 3° 6 | 14° 6 | 9° 0 | W14 |
| T 15 | 19 33 5 | 22°45'35 | 2 8 51 | 8°52 | 8°21 | 16°47 | 3° 7 | 29°35 | 16°38 | 24°15 | 1°28 | 3°51 | 3° 2 | 14°13 | 9° 7 | T 15 |
| F 16 | 19 37 2 | 23°42'52 | 14°52 | 10°39 | 9°25 | 17°23 | 3°20 | 29°32 | 16°41 | 24°15 | 1°29 | 3°52 | 2°59 | 14°19 | 9°13 | F 16 |
| S 17 | 19 40 58 | 24°40'09 | 26°44 | 12°24 | 10°29 | 17°59 | 3°33 | 29°28 | 16°44 | 24°14 | 1°31 | 3°54 | 2°56 | 14°26 | 9°19 | S 17 |
| S 18 | 19 44 55 | 25°37'26 | 8 Ⅲ 32 | 14° 8 | 11°33 | 18°35 | 3°47 | 29°24 | 16°47 | 24°13 | 1°33 | 3°55 | 2°53 | 14°33 | 9°25 | S 18 |
| M19 | 19 48 51 | 26°34'45 | 20°20 | 15°49 | 12°38 | 19°11 | 4° 0 | 29°20 | 16°50 | 24°13 | 1°34 | 3°57 | 2°50 | 14°39 | 9°32 | M19 |
| T 20 | 19 52 48 | 27°32'05 | 29511 | 17°29 | 13°43 | 19°48 | 4°13 | 29°17 | 16°53 | 24°12 | 1°36 | 3°R57 | 2°47 | 14°46 | 9°38 | T 20 |
| W21 | 19 56 44 | 28°29'25 | 14° 9 | 19° 7 | 14°48 | 20°24 | 4°26 | 29°13 | 16°56 | 24°11 | 1°38 | 3°57 | 2°43 | 14°52 | 9°44 | W21 |
| T 22 | 20 041 | 29°26'46 | 26°17 | 20°43 | 15°53 | 21° 1 | 4°40 | 29°10 | 16°59 | 24°10 | 1°40 | 3°55 | 2°40 | 14°59 | 9°50 | T 22 |
| F 23 | 20 4 37 | $0\Omega 24'08$ | 8 Ω 34 | 22°17 | 16°58 | 21°37 | 4°53 | 29° 6 | 17° 1 | 24°10 | 1°41 | 3°52 | 2°37 | 15° 6 | 9°56 | F 23 |
| S 24 | 20 8 34 | 1°21'30 | 21° 4 | 23°50 | 18° 4 | 22°14 | 5° 6 | 29° 3 | 17° 4 | 24° 9 | 1°43 | 3°49 | 2°34 | 15°12 | 10° 2 | S 24 |
| S 25 | 20 12 31 | 2°18'53 | 3 m 47 | 25°21 | 19° 9 | 22°51 | 5°19 | 28°59 | 17° 7 | 24° 8 | 1°45 | 3°44 | 2°31 | 15°19 | 10°8 | S 25 |
| M26 | 20 16 27 | 3°16'17 | 16°44 | 26°50 | 20°15 | 23°27 | 5°32 | 28°56 | 17°10 | 24° 7 | 1°46 | 3°40 | 2°28 | 15°26 | 10°14 | M26 |
| T 27 | 20 20 24 | 4°13'41 | 29°54 | 28°17 | 21°21 | 24° 4 | 5°46 | 28°53 | 17°12 | 24° 6 | 1°48 | 3°35 | 2°24 | 15°32 | 10°20 | T 27 |
| W28 | 20 24 20 | 5°11'06 | 13 ≏ 19 | 29°42 | 22°27 | 24°41 | 5°59 | 28°50 | 17°15 | 24° 5 | 1°50 | 3°32 | 2°21 | 15°39 | 10°26 | W28 |
| T 29 | 20 28 17 | 6° 8'32 | 26°58 | 1 Mp 6 | 23°34 | 25°18 | 6°12 | 28°47 | 17°18 | 24° 4 | 1°52 | 3°31 | 2°18 | 15°46 | 10°32 | T 29 |
| F 30 | 20 32 13 | 7° 5'58 | 10ML52 | 2°27 | 24°40 | 25°55 | 6°25 | 28°44 | 17°20 | 24° 3 | 1°53 | 3°D31 | 2°15 | 15°52 | 10°38 | F 30 |
| S 31 | 20 36 10 | 8 Q 3'25 | 25 M 1 | 3 Mp 46 | 25 Ⅱ 47 | 26 M 33 | 6 Ω 39 | 28 × 141 | 17 Ⅱ 23 | 24 米 2 | 1 Q 55 | 3 ට 31 | 2 る 12 | 15 Ⅱ 59 | 109544 | S 31 |

Delta T = 16.40 sec

Greg. Calendar

AUGUST 1694 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q | ♂ | 4 | ħ | ኊ | ¥ | Р | Ç | ය | Ç | ٧٥ | Day |
|------|----------|------------------|----------------|-----------------|---------------|----------------|----------------|-----------------|----------------|----------------|---------------|---------------|---------------|----------------|--------|------|
| S 1 | 20 40 6 | 9₽ 0'53 | 9 ₹ 22 | 5Mp 4 | 26∏54 | 27 Mp 10 | 6 Ω 52 | 28°R38 | 17 Ⅲ 25 | 24°R 1 | 1 Q 57 | 3 る 33 | 2 る 8 | 16耳 6 | 10950 | S 1 |
| M 2 | 20 44 3 | 9°58'21 | 23°53 | 6°19 | 28° 1 | 27°47 | 7° 5 | 28 ₹ 35 | 17°28 | 24 米 0 | 1°59 | 3°34 | 2° 5 | 16°12 | 10°56 | M 2 |
| T 3 | 20 48 0 | 10°55'51 | 8 궁 31 | 7°33 | 29° 8 | 28°25 | 7°18 | 28°33 | 17°30 | 23°59 | 2° 0 | 3°R34 | 2° 2 | 16°19 | 11° 2 | T 3 |
| W 4 | 20 51 56 | 11°53'21 | 23°10 | 8°44 | 09୍ତ15 | 29° 2 | 7°32 | 28°30 | 17°33 | 23°58 | 2° 2 | 3°33 | 1°59 | 16°26 | 11° 8 | W 4 |
| T 5 | 20 55 53 | 12°50'52 | 7≈44 | 9°53 | 1°23 | 29°40 | 7°45 | 28°27 | 17°35 | 23°57 | 2° 4 | 3°30 | 1°56 | 16°32 | 11°14 | T 5 |
| F 6 | 20 59 49 | 13°48'24 | 22° 7 | 10°59 | 2°30 | 0 ჲ 17 | 7°58 | 28°25 | 17°37 | 23°56 | 2° 5 | 3°25 | 1°53 | 16°39 | 11°19 | F 6 |
| S 7 | 21 3 46 | 14°45'58 | 6 ¥ 13 | 12° 3 | 3°38 | 0°55 | 8°11 | 28°23 | 17°40 | 23°55 | 2° 7 | 3°18 | 1°49 | 16°46 | 11°25 | S 7 |
| S 8 | 21 7 42 | 15°43'32 | 19°57 | 13° 5 | 4°46 | 1°33 | 8°24 | 28°20 | 17°42 | 23°53 | 2° 9 | 3°12 | 1°46 | 16°52 | 11°31 | S 8 |
| M 9 | 21 11 39 | 16°41'08 | 3 Ƴ 17 | 14° 4 | 5°54 | 2°10 | 8°38 | 28°18 | 17°44 | 23°52 | 2°10 | 3° 5 | 1°43 | 16°59 | 11°36 | M 9 |
| T 10 | 21 15 35 | 17°38'46 | 16°13 | 15° 0 | 7° 2 | 2°48 | 8°51 | 28°16 | 17°46 | 23°51 | 2°12 | 3° 0 | 1°40 | 17° 6 | 11°42 | T 10 |
| W11 | 21 19 32 | 18°36'25 | 28°47 | 15°53 | 8°10 | 3°26 | 9° 4 | 28°14 | 17°48 | 23°50 | 2°14 | 2°56 | 1°37 | 17°12 | 11°47 | W11 |
| T 12 | 21 23 29 | 19°34'06 | 118 3 | 16°43 | 9°19 | 4° 4 | 9°17 | 28°12 | 17°51 | 23°48 | 2°15 | 2°54 | 1°34 | 17°19 | 11°53 | T 12 |
| F 13 | 21 27 25 | 20°31'48 | 23° 4 | 17°30 | 10°28 | 4°42 | 9°30 | 28°10 | 17°53 | 23°47 | 2°17 | 2°D53 | 1°30 | 17°25 | 11°58 | F 13 |
| S 14 | 21 31 22 | 21°29'32 | 4 Ⅱ 57 | 18°14 | 11°36 | 5°21 | 9°43 | 28° 8 | 17°55 | 23°46 | 2°19 | 2°54 | 1°27 | 17°32 | 12° 4 | S 14 |
| S 15 | 21 35 18 | 22°27'17 | 16°45 | 18°53 | 12°45 | 5°59 | 9°56 | 28° 7 | 17°57 | 23°44 | 2°20 | 2°56 | 1°24 | 17°39 | 12° 9 | S 15 |
| M16 | 21 39 15 | 23°25'04 | 28°34 | 19°29 | 13°54 | 6°37 | 10° 9 | 28° 5 | 17°59 | 23°43 | 2°22 | 2°R56 | 1°21 | 17°45 | 12°15 | M16 |
| T 17 | 21 43 11 | 24°22'53 | 109529 | 20° 1 | 15° 3 | 7°16 | 10°22 | 28° 4 | 18° 0 | 23°42 | 2°24 | 2°56 | 1°18 | 17°52 | 12°20 | T 17 |
| W18 | 21 47 8 | 25°20'44 | 22°34 | 20°29 | 16°12 | 7°54 | 10°35 | 28° 2 | 18° 2 | 23°40 | 2°25 | 2°54 | 1°14 | 17°59 | 12°25 | W18 |
| T 19 | 21 51 4 | 26°18'36 | 4 Ω 52 | 20°52 | 17°22 | 8°33 | 10°48 | 28° 1 | 18° 4 | 23°39 | 2°27 | 2°50 | 1°11 | 18° 5 | 12°30 | T 19 |
| F 20 | 21 55 1 | 27°16'29 | 17°25 | 21°10 | 18°31 | 9°11 | 11° 1 | 28° 0 | 18° 6 | 23°37 | 2°28 | 2°43 | 1° 8 | 18°12 | 12°36 | F 20 |
| S 21 | 21 58 58 | 28°14'24 | 0 m 14 | 21°23 | 19°41 | 9°50 | 11°14 | 27°58 | 18° 8 | 23°36 | 2°30 | 2°35 | 1° 5 | 18°19 | 12°41 | S 21 |
| S 22 | 22 2 54 | 29°12'21 | 13°19 | 21°31 | 20°51 | 10°29 | 11°27 | 27°57 | 18° 9 | 23°34 | 2°32 | 2°25 | 1° 2 | 18°25 | 12°46 | S 22 |
| M23 | 22 6 51 | 0 m 10'19 | 26°38 | 21°R34 | 22° 0 | 11° 7 | 11°40 | 27°56 | 18°11 | 23°33 | 2°33 | 2°16 | 0°59 | 18°32 | 12°51 | M23 |
| T 24 | 22 10 47 | 1° 8'19 | 10 ₽ 10 | 21°30 | 23°10 | 11°46 | 11°53 | 27°56 | 18°12 | 23°31 | 2°35 | 2° 7 | 0°55 | 18°39 | 12°56 | T 24 |
| W25 | 22 14 44 | 2° 6'19 | 23°53 | 21°21 | 24°20 | 12°25 | 12° 6 | 27°55 | 18°14 | 23°30 | 2°36 | 1°59 | 0°52 | 18°45 | 13° 1 | W25 |
| T 26 | 22 18 40 | 3° 4'22 | 7 M .44 | 21° 5 | 25°31 | 13° 4 | 12°19 | 27°54 | 18°15 | 23°28 | 2°38 | 1°54 | 0°49 | 18°52 | 13° 6 | T 26 |
| F 27 | 22 22 37 | 4° 2'26 | 21°42 | 20°43 | 26°41 | 13°43 | 12°31 | 27°54 | 18°17 | 23°27 | 2°39 | 1°52 | 0°46 | 18°59 | 13°10 | F 27 |
| S 28 | 22 26 33 | 5° 0'31 | 5 , 746 | 20°15 | 27°51 | 14°22 | 12°44 | 27°53 | 18°18 | 23°25 | 2°41 | 1°D51 | 0°43 | 19° 5 | 13°15 | S 28 |
| S 29 | 22 30 30 | 5°58'37 | 19°55 | 19°41 | 29° 2 | 15° 2 | 12°57 | 27°53 | 18°20 | 23°24 | 2°42 | 1°52 | 0°39 | 19°12 | 13°20 | S 29 |
| M30 | 22 34 27 | 6°56'45 | 4る8 | 19° 2 | 0Ω12 | 15°41 | 13° 9 | 27°53 | 18°21 | 23°22 | 2°44 | 1°R52 | 0°36 | 19°18 | 13°24 | M30 |
| T 31 | 22 38 23 | 7 m 54'55 | 18 궁 22 | 18 M)16 | 1 Ω 23 | 16 ≏ 20 | 13 N 22 | 27 × 752 | 18 Ⅲ 22 | 23 米 21 | 2 Ω 45 | 1 ප 51 | 0 궁 33 | 19 Ⅱ 25 | 139529 | T 31 |

Delta T = 16.37 sec

SEPTEMBER 1694 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Ŷ. | ď | 4 | ħ |)ұ(| ¥ | В | u | v | Ç | ę, | Day |
|--------------|----------------------|----------------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|---------------|-----------------|----------------|----------------|----------------|-------------|
| W 1 | 22 42 20 | 8 m 53'06 | 2≈36 | 17°R26 | 2 N 33 | 17 ♀ 0 | 13 \O 34 | 27°D52 | 18 Ⅲ 23 | 23°R19 | 2 Ω 47 | 1°R48 | 0 ට 30 | 19 Ⅱ 32 | 13934 | W 1 |
| T 2 | 22 46 16 | 9°51'18 | 16°46 | 16 M 32 | 3°44 | 17°39 | 13°47 | 27 ₹ 52 | 18°24 | 23 米 17 | 2°48 | 1 る 42 | 0°27 | 19°38 | 13°38 | T 2 |
| F 3 | 22 50 13 | 10°49'32 | 0) €47 | 15°35 | 4°55 | 18°19 | 13°59 | 27°52 | 18°26 | 23°16 | 2°49 | 1°33 | 0°24 | 19°45 | 13°42 | F 3 |
| S 4 | 22 54 9 | 11°47'48 | 14°35 | 14°35 | 6° 6 | 18°58 | 14°12 | 27°53 | 18°27 | 23°14 | 2°51 | 1°23 | 0°20 | 19°52 | 13°47 | S 4 |
| S 5 | 22 58 6 | 12°46'05 | 28° 7 | 13°35 | 7°17 | 19°38 | 14°24 | 27°53 | 18°28 | 23°13 | 2°52 | 1°11 | 0°17 | 19°58 | 13°51 | S 5 |
| M 6 | 23 2 2 | 13°44'25 | 11 Υ 19 | 12°35 | 8°29 | 20°18 | 14°37 | 27°53 | 18°28 | 23°11 | 2°54 | 1° 0 | 0°14 | 20° 5 | 13°55 | M 6 |
| T 7 | 23 5 59 | 14°42'46 | 24°11 | 11°37 | 9°40 | 20°58 | 14°49 | 27°54 | 18°29 | 23° 9 | 2°55 | 0°50 | 0°11 | 20°12 | 13°59 | T 7 |
| W 8 | 23 9 55 | 15°41'09 | 6843 | 10°42 | 10°51 | 21°37 | 15° 1 | 27°54 | 18°30 | 23° 8 | 2°56 | 0°42 | 0° 8 | 20°18 | 14° 4 | W 8 |
| T 9 | 23 13 52 | 16°39'35 | 18°58 0 Ⅲ 59 | 9°52 9° 8 | 12° 3 13°15 | 22°17 | 15°13 | 27°55 | 18°31 | 23° 6 23° 4 | 2°58 | 0°36 0°33 | 0° 5 0° 1 | 20°25 | 14° 8 | T 9 F 10 |
| F 10 S 11 | 23 17 49 23 21 45 | 17°38'03 18°36'33 | 0Д39 12°51 | 8°30 | 13°15 14°26 | 22°57 23°37 | 15°25 15°38 | 27°56 27°57 | 18°32 18°32 | 23° 4 23° 3 | 2°59 3° 0 | 0°33 0°32 | 29×758 | 20°32 20°38 | 14°12 14°15 | S 11 |
| | | | | | - | | | | | | | | | | _ | |
| S 12 | 23 25 42 | 19°35'05 | 24°39 | 8° 1 | 15°38 | 24°18 | 15°50 | 27°58 | 18°33 | 23° 1 | 3° 2 | 0°32 | 29°55 | 20°45 | 14°19 | S 12 |
| M13 | 23 29 38 | 20°33'39 | 6929 | 7°40 | 16°50 | 24°58 | 16° 2 | 27°59 | 18°34 | 22°59 | 3° 3 | 0°32 | 29°52 | 20°52 | 14°23 | M13 |
| T 14 W15 | 23 33 35 23 37 31 | 21°32'15 22°30'54 | 18°26 0 Ω 36 | 7°28 7°D27 | 18° 2 19°14 | 25°38 26°18 | 16°13 16°25 | 28° 0 28° 1 | 18°34 18°35 | 22°58 22°56 | 3° 4 3° 5 | 0°31 0°28 | 29°49 29°45 | 20°58 21° 5 | 14°27 14°30 | T 14 W15 |
| T 16 | 23 41 28 | 22°30'34 23°29'35 | 13° 1 | 7°34 | 20°26 | 26°59 | 16°23 | 28° 3 | 18°35 | 22°54 | 3° 6 | 0°28 | 29°43 29°42 | 21° 3 | 14°34 | T 16 |
| F 17 | 23 45 24 | 23°29'33 24°28'17 | 25°46 | 7°52 | 20°28 | 20°39 | 16°49 | 28° 4 | 18°36 | 22°53 | 3° 8 | 0°13 | 29°39 | 21°18 | 14°37 | F 17 |
| S 18 | 23 49 21 | 25°27'02 | 8 m 52 | 8°19 | 22°51 | 28°20 | 17° 1 | 28° 6 | 18°36 | 22°51 | 3° 9 | 0° 3 | 29°36 | 21°25 | 14°41 | S 18 |
| S 19 | 23 53 18 | 26°25'49 | 22°18 | 8°55 | 24° 3 | 29° 1 | 17°12 | 28° 7 | 18°36 | 22°49 | 3°10 | 29 × 750 | 29°33 | 21°31 | 14°44 | S 19 |
| M20 | 23 53 18 | 26°23'49 27°24'38 | 6 <u>₽</u> 1 | 9°40 | 24° 3 25°16 | 29°11 | 17°12 17°24 | 28° 9 | 18°36 | 22°49 22°48 | 3°11 | 29 x ·30 | 29°33 29°30 | 21°31 21°38 | 14°44 14°47 | M20 |
| T 21 | 0 111 | 27 24 36 28°23'29 | 20° 0 | 10°33 | 26°28 | 0ML22 | 17°35 | 28°11 | 18°36 | 22°46 | 3°12 | 29°26 | 29°26 | 21°45 | 14°50 | T 21 |
| W22 | 0 5 7 | 29°22'22 | 4M. 7 | 11°34 | 27°41 | 1° 3 | 17°47 | 28°13 | 18°37 | 22°45 | 3°13 | 29°17 | 29°23 | 21°51 | 14°54 | W22 |
| T 23 | 0 9 4 | 0 ₽ 21'17 | 18°20 | 12°42 | 28°53 | 1°44 | 17°58 | 28°15 | 18°37 | 22°43 | 3°14 | 29°10 | 29°20 | 21°58 | 14°57 | T 23 |
| F 24 | 0 13 0 | 1°20'13 | 2 ₹ 34 | 13°56 | 0Mp 6 | 2°25 | 18° 9 | 28°17 | 18°R37 | 22°41 | 3°15 | 29° 6 | 29°17 | 22° 5 | 14°59 | F 24 |
| S 25 | 0 16 57 | 2°19'12 | 16°46 | 15°15 | 1°19 | 3° 6 | 18°20 | 28°20 | 18°37 | 22°40 | 3°16 | 29° 4 | 29°14 | 22°11 | 15° 2 | S 25 |
| S 26 | 0 20 53 | 3°18'12 | 0중54 | 16°40 | 2°32 | 3°47 | 18°31 | 28°22 | 18°37 | 22°38 | 3°17 | 29° 4 | 29°11 | 22°18 | 15° 5 | S 26 |
| M27 | 0 24 50 | 4°17'14 | 14°57 | 18° 9 | 3°45 | 4°28 | 18°42 | 28°24 | 18°36 | 22°36 | 3°18 | 29° 4 | 29° 7 | 22°25 | 15° 8 | M27 |
| T 28 | 0 28 47 | 5°16'17 | 28°55 | 19°41 | 4°58 | 5° 9 | 18°53 | 28°27 | 18°36 | 22°35 | 3°19 | 29° 2 | 29° 4 | 22°31 | 15°10 | T 28 |
| W29 | 0 32 43 | 6°15'22 | 12≈47 | 21°16 | 6°11 | 5°51 | 19° 4 | 28°29 | 18°36 | 22°33 | 3°20 | 28°59 | 29° 1 | 22°38 | 15°13 | W29 |
| T 30 | 0 36 40 | 7 ≏ 14'29 | 26≈31 | 22 m 54 | 7 M 24 | 6 M 32 | 19 Ω 15 | 28 × 32 | 18 Ⅱ 36 | 22) 32 | 3 Ω 21 | 28 × 52 | 28 × 58 | 22 ∏ 44 | 159915 | T 30 |

Delta T = 16.33 sec

Greg. Calendar

OCTOBER 1694 GC 00:00 UT

| Day | Sid.t | 0 |)) | φ | φ | o ⁷ | 4 | ħ |)ұ(| ¥ | 2 | ß | Ω | ţ | Š | Day |
|------|---------|------------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|-----------------|----------------|-----------------|--------|------|
| F 1 | 0 40 36 | 8 ₾ 13'38 | 10) 7 | 24 Mp 34 | 8 m 37 | 7 M 13 | 19 Ω 26 | 28 √ 35 | 18°R35 | 22°R30 | 3 Ω 22 | 28°R43 | 28 √ 55 | 22 I I51 | 159518 | F 1 |
| S 2 | 0 44 33 | 9°12'49 | 23°32 | 26°16 | 9°51 | 7°55 | 19°36 | 28°38 | 18 Ⅲ 35 | 22 米 28 | 3°23 | 28 × 31 | 28°51 | 22°58 | 15°20 | S 2 |
| S 3 | 0 48 29 | 10°12'02 | 6 Υ 43 | 27°59 | 11° 4 | 8°36 | 19°47 | 28°41 | 18°34 | 22°27 | 3°24 | 28°18 | 28°48 | 23° 4 | 15°22 | S 3 |
| M 4 | 0 52 26 | 11°11'16 | 19°40 | 29°42 | 12°17 | 9°18 | 19°57 | 28°44 | 18°34 | 22°25 | 3°25 | 28° 6 | 28°45 | 23°11 | 15°24 | M 4 |
| T 5 | 0 56 22 | 12°10'33 | 2 8 20 | 1 ≏ 27 | 13°31 | 10° 0 | 20° 8 | 28°47 | 18°33 | 22°24 | 3°25 | 27°54 | 28°42 | 23°18 | 15°26 | T 5 |
| W 6 | 1 0 19 | 13° 9'52 | 14°45 | 3°12 | 14°44 | 10°41 | 20°18 | 28°50 | 18°33 | 22°22 | 3°26 | 27°45 | 28°39 | 23°24 | 15°28 | W 6 |
| T 7 | 1 4 16 | 14° 9'13 | 26°55 | 4°57 | 15°58 | 11°23 | 20°28 | 28°53 | 18°32 | 22°21 | 3°27 | 27°38 | 28°36 | 23°31 | 15°30 | T 7 |
| F 8 | 1 8 12 | 15° 8'37 | 8耳53 | 6°42 | 17°12 | 12° 5 | 20°38 | 28°57 | 18°31 | 22°19 | 3°28 | 27°34 | 28°32 | 23°38 | 15°32 | F 8 |
| S 9 | 1 12 9 | 16° 8'03 | 20°44 | 8°27 | 18°25 | 12°47 | 20°48 | 29° 0 | 18°31 | 22°18 | 3°28 | 27°33 | 28°29 | 23°44 | 15°33 | S 9 |
| S 10 | 1 16 5 | 17° 7'31 | 2931 | 10°11 | 19°39 | 13°29 | 20°58 | 29° 4 | 18°30 | 22°16 | 3°29 | 27°D33 | 28°26 | 23°51 | 15°35 | S 10 |
| M11 | 1 20 2 | 18° 7'01 | 14°20 | 11°56 | 20°53 | 14°11 | 21° 8 | 29° 7 | 18°29 | 22°15 | 3°30 | 27°R33 | 28°23 | 23°58 | 15°36 | M11 |
| T 12 | 1 23 58 | 19° 6'34 | 26°16 | 13°40 | 22° 7 | 14°53 | 21°17 | 29°11 | 18°28 | 22°13 | 3°30 | 27°33 | 28°20 | 24° 4 | 15°38 | T 12 |
| W13 | 1 27 55 | 20° 6'09 | $8\Omega 26$ | 15°23 | 23°21 | 15°35 | 21°27 | 29°15 | 18°27 | 22°12 | 3°31 | 27°31 | 28°16 | 24°11 | 15°39 | W13 |
| T 14 | 1 31 51 | 21° 5'46 | 20°53 | 17° 6 | 24°35 | 16°18 | 21°36 | 29°19 | 18°26 | 22°10 | 3°31 | 27°27 | 28°13 | 24°18 | 15°40 | T 14 |
| F 15 | 1 35 48 | 22° 5'25 | 3 M 42 | 18°49 | 25°49 | 17° 0 | 21°46 | 29°23 | 18°25 | 22° 9 | 3°32 | 27°21 | 28°10 | 24°24 | 15°41 | F 15 |
| S 16 | 1 39 45 | 23° 5'07 | 16°56 | 20°31 | 27° 3 | 17°42 | 21°55 | 29°27 | 18°24 | 22° 8 | 3°32 | 27°12 | 28° 7 | 24°31 | 15°43 | S 16 |
| S 17 | 1 43 41 | 24° 4'51 | 0 ჲ 34 | 22°13 | 28°17 | 18°25 | 22° 4 | 29°31 | 18°23 | 22° 6 | 3°33 | 27° 2 | 28° 4 | 24°37 | 15°43 | S 17 |
| M18 | 1 47 38 | 25° 4'37 | 14°36 | 23°54 | 29°31 | 19° 7 | 22°13 | 29°35 | 18°22 | 22° 5 | 3°33 | 26°52 | 28° 1 | 24°44 | 15°44 | M18 |
| T 19 | 1 51 34 | 26° 4'25 | 28°57 | 25°34 | 0 ჲ 46 | 19°50 | 22°22 | 29°40 | 18°20 | 22° 4 | 3°34 | 26°42 | 27°57 | 24°51 | 15°45 | T 19 |
| W20 | 1 55 31 | 27° 4'15 | 13 M .31 | 27°14 | 2° 0 | 20°33 | 22°31 | 29°44 | 18°19 | 22° 2 | 3°34 | 26°34 | 27°54 | 24°57 | 15°46 | W20 |
| T 21 | 1 59 27 | 28° 4'07 | 28°10 | 28°53 | 3°14 | 21°15 | 22°39 | 29°48 | 18°18 | 22° 1 | 3°35 | 26°28 | 27°51 | 25° 4 | 15°46 | T 21 |
| F 22 | 2 3 24 | 29° 4'00 | 12 × 148 | 0 M 32 | 4°29 | 21°58 | 22°48 | 29°53 | 18°16 | 22° 0 | 3°35 | 26°25 | 27°48 | 25°11 | 15°47 | F 22 |
| S 23 | 2 7 20 | OM 3'56 | 27°19 | 2°10 | 5°43 | 22°41 | 22°56 | 29°57 | 18°15 | 21°59 | 3°35 | 26°D24 | 27°45 | 25°17 | 15°47 | S 23 |
| S 24 | 2 11 17 | 1° 3'53 | 11 る 40 | 3°48 | 6°58 | 23°24 | 23° 4 | 0중 2 | 18°13 | 21°57 | 3°36 | 26°25 | 27°42 | 25°24 | 15°47 | S 24 |
| M25 | 2 15 14 | 2° 3'52 | 25°47 | 5°25 | 8°12 | 24° 7 | 23°13 | 0° 7 | 18°12 | 21°56 | 3°36 | 26°R26 | 27°38 | 25°31 | 15°48 | M25 |
| T 26 | 2 19 10 | 3° 3'52 | 9≈41 | 7° 1 | 9°27 | 24°50 | 23°21 | 0°12 | 18°10 | 21°55 | 3°36 | 26°26 | 27°35 | 25°37 | 15°R48 | T 26 |
| W27 | 2 23 7 | 4° 3'54 | 23°21 | 8°38 | 10°41 | 25°33 | 23°29 | 0°16 | 18° 9 | 21°54 | 3°36 | 26°24 | 27°32 | 25°44 | 15°48 | W27 |
| T 28 | 2 27 3 | 5° 3'57 | 6) €47 | 10°13 | 11°56 | 26°16 | 23°36 | 0°21 | 18° 7 | 21°53 | 3°37 | 26°20 | 27°29 | 25°51 | 15°48 | T 28 |
| F 29 | 2 31 0 | 6° 4'02 | 20° 1 | 11°49 | 13°10 | 26°59 | 23°44 | 0°26 | 18° 5 | 21°52 | 3°37 | 26°14 | 27°26 | 25°57 | 15°47 | F 29 |
| S 30 | 2 34 56 | 7° 4'09 | 3 ℃ 3 | 13°23 | 14°25 | 27°43 | 23°51 | 0°31 | 18° 4 | 21°51 | 3°37 | 26° 6 | 27°22 | 26° 4 | 15°47 | S 30 |
| S 31 | 2 38 53 | 8M 4'17 | 15 Y 52 | 14 M 58 | 15 ≙ 40 | 28 M 26 | 23 N 59 | 0 ප 37 | 18耳 2 | 21 米 50 | 3 Ω 37 | 25 × 757 | 27 × 19 | 26 II 10 | 159647 | S 31 |

Delta T = 16.30 sec

NOVEMBER 1694 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | Ŷ | ♂ | 4 | ħ |)∤(| ¥ | Р | ß | v | ţ | ę, | Day |
|------|---------|-------------------|----------------|-----------------|-----------------|----------------|----------------|---------------|----------------|----------------|---------------|-----------------|----------------|----------------|--------|------|
| M 1 | 2 42 49 | 9M 4'27 | 28 Y 29 | 16MJ32 | 16 ♀ 55 | 29M 9 | 24 N 6 | 0 る 42 | 18°R 0 | 21°R49 | 3 Ω 37 | 25°R48 | 27 ∡ 16 | 26Ⅱ17 | 15°R46 | M 1 |
| T 2 | 2 46 46 | 10° 4'39 | 10 8 53 | 18° 5 | 18° 9 | 29°53 | 24°13 | 0°47 | 17耳58 | 21) 48 | 3°37 | 25 ∡ ¹40 | 27°13 | 26°24 | 159546 | T 2 |
| W 3 | 2 50 42 | 11° 4'53 | 23° 6 | 19°39 | 19°24 | 0 ∡ 736 | 24°20 | 0°52 | 17°56 | 21°47 | 3°37 | 25°34 | 27°10 | 26°30 | 15°45 | W 3 |
| T 4 | 2 54 39 | 12° 5'08 | 5 I 9 | 21°11 | 20°39 | 1°20 | 24°27 | 0°58 | 17°55 | 21°46 | 3°R37 | 25°29 | 27° 7 | 26°37 | 15°44 | T 4 |
| F 5 | 2 58 36 | 13° 5'26 | 17° 3 | 22°44 | 21°54 | 2° 3 | 24°33 | 1° 3 | 17°53 | 21°45 | 3°37 | 25°27 | 27° 3 | 26°44 | 15°43 | F 5 |
| S 6 | 3 2 32 | 14° 5'45 | 28°51 | 24°16 | 23° 9 | 2°47 | 24°40 | 1° 9 | 17°51 | 21°44 | 3°37 | 25°D27 | 27° 0 | 26°50 | 15°42 | S 6 |
| S 7 | 3 6 29 | 15° 6'06 | 10937 | 25°48 | 24°24 | 3°31 | 24°46 | 1°14 | 17°49 | 21°43 | 3°37 | 25°28 | 26°57 | 26°57 | 15°41 | S 7 |
| M 8 | 3 10 25 | 16° 6'29 | 22°26 | 27°20 | 25°39 | 4°15 | 24°52 | 1°20 | 17°47 | 21°42 | 3°37 | 25°29 | 26°54 | 27° 4 | 15°40 | M 8 |
| T 9 | 3 14 22 | 17° 6'54 | 4 Ω 21 | 28°51 | 26°54 | 4°59 | 24°58 | 1°25 | 17°45 | 21°41 | 3°37 | 25°31 | 26°51 | 27°10 | 15°39 | T 9 |
| W10 | 3 18 18 | 18° 7'21 | 16°28 | 0 , ₹22 | 28° 9 | 5°42 | 25° 4 | 1°31 | 17°42 | 21°41 | 3°37 | 25°R32 | 26°48 | 27°17 | 15°38 | W10 |
| T 11 | 3 22 15 | 19° 7'49 | 28°52 | 1°53 | 29°24 | 6°26 | 25°10 | 1°37 | 17°40 | 21°40 | 3°37 | 25°31 | 26°44 | 27°24 | 15°36 | T 11 |
| F 12 | 3 26 11 | 20° 8'20 | 11 m 38 | 3°23 | 0 M .39 | 7°11 | 25°16 | 1°43 | 17°38 | 21°39 | 3°36 | 25°29 | 26°41 | 27°30 | 15°35 | F 12 |
| S 13 | 3 30 8 | 21° 8'52 | 24°49 | 4°53 | 1°54 | 7°55 | 25°21 | 1°49 | 17°36 | 21°39 | 3°36 | 25°25 | 26°38 | 27°37 | 15°33 | S 13 |
| S 14 | 3 34 5 | 22° 9'26 | 8 ≏ 28 | 6°23 | 3° 9 | 8°39 | 25°26 | 1°55 | 17°34 | 21°38 | 3°36 | 25°21 | 26°35 | 27°43 | 15°32 | S 14 |
| M15 | 3 38 1 | 23°10'02 | 22°34 | 7°52 | 4°24 | 9°23 | 25°31 | 2° 1 | 17°31 | 21°37 | 3°36 | 25°16 | 26°32 | 27°50 | 15°30 | M15 |
| T 16 | 3 41 58 | 24°10'39 | 7 M 5 | 9°21 | 5°39 | 10° 7 | 25°36 | 2° 7 | 17°29 | 21°37 | 3°35 | 25°11 | 26°28 | 27°57 | 15°28 | T 16 |
| W17 | 3 45 54 | 25°11'18 | 21°54 | 10°49 | 6°54 | 10°52 | 25°41 | 2°13 | 17°27 | 21°36 | 3°35 | 25° 7 | 26°25 | 28° 3 | 15°26 | W17 |
| T 18 | 3 49 51 | 26°11'59 | 6 ₹ 54 | 12°17 | 8°10 | 11°36 | 25°46 | 2°19 | 17°25 | 21°36 | 3°35 | 25° 4 | 26°22 | 28°10 | 15°24 | T 18 |
| F 19 | 3 53 47 | 27°12'41 | 21°56 | 13°45 | 9°25 | 12°21 | 25°50 | 2°25 | 17°22 | 21°35 | 3°34 | 25°D 3 | 26°19 | 28°17 | 15°22 | F 19 |
| S 20 | 3 57 44 | 28°13'25 | 6 る 52 | 15°12 | 10°40 | 13° 5 | 25°54 | 2°31 | 17°20 | 21°35 | 3°34 | 25° 3 | 26°16 | 28°23 | 15°20 | S 20 |
| S 21 | 4 1 40 | 29°14'09 | 21°34 | 16°38 | 11°55 | 13°50 | 25°58 | 2°38 | 17°17 | 21°35 | 3°33 | 25° 5 | 26°13 | 28°30 | 15°18 | S 21 |
| M22 | 4 5 37 | 0 ∡ 14'54 | 5≈57 | 18° 4 | 13°11 | 14°34 | 26° 2 | 2°44 | 17°15 | 21°34 | 3°33 | 25° 6 | 26° 9 | 28°37 | 15°15 | M22 |
| T 23 | 4 9 34 | 1°15'41 | 20° 0 | 19°29 | 14°26 | 15°19 | 26° 6 | 2°50 | 17°13 | 21°34 | 3°32 | 25° 7 | 26° 6 | 28°43 | 15°13 | T 23 |
| W24 | 4 13 30 | 2°16'28 | 3 ∺ 41 | 20°53 | 15°41 | 16° 4 | 26° 9 | 2°57 | 17°10 | 21°33 | 3°32 | 25°R 8 | 26° 3 | 28°50 | 15°10 | W24 |
| T 25 | 4 17 27 | 3°17'16 | 17° 1 | 22°15 | 16°56 | 16°48 | 26°13 | 3° 3 | 17° 8 | 21°33 | 3°31 | 25° 7 | 26° 0 | 28°57 | 15° 8 | T 25 |
| F 26 | 4 21 23 | 4°18'05 | 0 Υ 3 | 23°37 | 18°12 | 17°33 | 26°16 | 3° 9 | 17° 5 | 21°33 | 3°31 | 25° 5 | 25°57 | 29° 3 | 15° 5 | F 26 |
| S 27 | 4 25 20 | 5°18'55 | 12°49 | 24°57 | 19°27 | 18°18 | 26°19 | 3°16 | 17° 3 | 21°33 | 3°30 | 25° 3 | 25°54 | 29°10 | 15° 2 | S 27 |
| S 28 | 4 29 16 | 6°19'46 | 25°20 | 26°16 | 20°42 | 19° 3 | 26°22 | 3°23 | 17° 0 | 21°33 | 3°29 | 25° 0 | 25°50 | 29°17 | 15° 0 | S 28 |
| M29 | 4 33 13 | 7°20'38 | 7 8 39 | 27°32 | 21°58 | 19°48 | 26°24 | 3°29 | 16°58 | 21°32 | 3°29 | 24°57 | 25°47 | 29°23 | 14°57 | M29 |
| T 30 | 4 37 9 | 8 × 121'31 | 19 8 49 | 28 × 147 | 23 IL 13 | 20 ∡ 33 | 26 Ω 27 | 3 る 36 | 16 Ⅱ 55 | 21 米 32 | 3 Ω 28 | 24 × 754 | 25 ₹ 44 | 29 Ⅱ 30 | 149554 | T 30 |

Delta T = 16.26 sec

Greg. Calendar

| DECEMBER 1694 GC | 00:00 UT |
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| DECEMBER 1034 OC | 00.00 UI |

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| ¥ | Р | v | Ω | Ç | Š | Day |
|------|---------|-------------------|-----------------|-----------------|----------------|----------------|----------------|---------------|----------------|----------------|---------------|-----------------|-----------------|-------|--------|------|
| W 1 | 4 41 6 | 9 ∡ ¹22'25 | 1 Ⅱ 49 | 29 × 759 | 24ML28 | 21 × 18 | 26 Ω 29 | 3 る 42 | 16°R53 | 21°R32 | 3°R27 | 24°R52 | 25 × 741 | 29∏36 | 14°R51 | W 1 |
| T 2 | 4 45 3 | 10°23'20 | 13°44 | 1る8 | 25°44 | 22° 3 | 26°31 | 3°49 | 16耳50 | | $3\Omega 27$ | 24 × 751 | 25°38 | 29°43 | 149548 | T 2 |
| F 3 | 4 48 59 | 11°24'16 | 25°34 | 2°14 | 26°59 | 22°49 | 26°33 | 3°56 | 16°48 | 21 米 32 | 3°26 | 24°D51 | 25°34 | 29°50 | 14°45 | F 3 |
| S 4 | 4 52 56 | 12°25'13 | 7 9521 | 3°16 | 28°15 | 23°34 | 26°35 | 4° 2 | 16°45 | 21°32 | 3°25 | 24°51 | 25°31 | 29°56 | 14°41 | S 4 |
| S 5 | 4 56 52 | 13°26'11 | 19°8 | 4°13 | 29°30 | 24°19 | 26°36 | 4° 9 | 16°43 | 21°32 | 3°24 | 24°52 | 25°28 | 0ණ 3 | 14°38 | S 5 |
| M 6 | 5 0 49 | 14°27'10 | 0Ω 59 | 5° 5 | 0 ∡ 145 | 25° 5 | 26°37 | 4°16 | 16°40 | 21°33 | 3°24 | 24°53 | 25°25 | 0°10 | 14°35 | M 6 |
| T 7 | 5 4 45 | 15°28'10 | 12°56 | 5°52 | 2° 1 | 25°50 | 26°38 | 4°23 | 16°37 | 21°33 | 3°23 | 24°54 | 25°22 | 0°16 | 14°31 | T 7 |
| W 8 | 5 8 42 | 16°29'11 | 25° 3 | 6°32 | 3°16 | 26°35 | 26°39 | 4°30 | 16°35 | 21°33 | 3°22 | 24°55 | 25°19 | 0°23 | 14°28 | W 8 |
| T 9 | 5 12 39 | 17°30'13 | 7 ™ 25 | 7° 5 | 4°32 | 27°21 | 26°40 | 4°36 | 16°32 | 21°33 | 3°21 | 24°56 | 25°15 | 0°30 | 14°24 | T 9 |
| F 10 | 5 16 35 | 18°31'16 | 20° 6 | 7°29 | 5°47 | 28° 6 | 26°41 | 4°43 | 16°30 | 21°33 | 3°20 | 24°R56 | 25°12 | 0°36 | 14°21 | F 10 |
| S 11 | 5 20 32 | 19°32'20 | 3 ₾ 9 | 7°45 | 7° 2 | 28°52 | 26°41 | 4°50 | 16°27 | 21°34 | 3°19 | 24°56 | 25° 9 | 0°43 | 14°17 | S 11 |
| S 12 | 5 24 28 | 20°33'25 | 16°39 | 7°R50 | 8°18 | 29°38 | 26°R41 | 4°57 | 16°25 | 21°34 | 3°18 | 24°55 | 25° 6 | 0°50 | 14°13 | S 12 |
| M13 | 5 28 25 | 21°34'31 | 0 M .35 | 7°45 | 9°33 | 0 궁 23 | 26°41 | 5° 4 | 16°22 | 21°34 | 3°17 | 24°55 | 25° 3 | 0°56 | 14°10 | M13 |
| T 14 | 5 32 21 | 22°35'38 | 14°59 | 7°28 | 10°49 | 1° 9 | 26°41 | 5°11 | 16°20 | 21°35 | 3°17 | 24°55 | 24°59 | 1° 3 | 14° 6 | T 14 |
| W15 | 5 36 18 | 23°36'45 | 29°46 | 7° 0 | 12° 4 | 1°55 | 26°40 | 5°18 | 16°17 | 21°35 | 3°16 | 24°54 | 24°56 | 1°10 | 14° 2 | W15 |
| T 16 | 5 40 14 | 24°37'54 | 14 × 751 | 6°20 | 13°20 | 2°41 | 26°40 | 5°25 | 16°15 | 21°35 | 3°15 | 24°D54 | 24°53 | 1°16 | 13°58 | T 16 |
| F 17 | 5 44 11 | 25°39'03 | 0る 4 | 5°28 | 14°35 | 3°27 | 26°39 | 5°32 | 16°12 | 21°36 | 3°14 | 24°R54 | 24°50 | 1°23 | 13°54 | F 17 |
| S 18 | 5 48 8 | 26°40'12 | 15°16 | 4°27 | 15°51 | 4°13 | 26°38 | 5°39 | 16°10 | 21°37 | 3°12 | 24°54 | 24°47 | 1°29 | 13°50 | S 18 |
| S 19 | 5 52 4 | 27°41'22 | 0≈18 | 3°17 | 17° 6 | 4°58 | 26°36 | 5°46 | 16° 7 | 21°37 | 3°11 | 24°54 | 24°44 | 1°36 | 13°46 | S 19 |
| M20 | 5 56 1 | 28°42'31 | 15° 1 | 2° 0 | 18°22 | 5°44 | 26°35 | 5°53 | 16° 5 | 21°38 | 3°10 | 24°54 | 24°40 | 1°43 | 13°42 | M20 |
| T 21 | 5 59 57 | 29°43'41 | 29°20 | 0°39 | 19°37 | 6°31 | 26°33 | 6° 0 | 16° 2 | 21°38 | 3° 9 | 24°53 | 24°37 | 1°49 | 13°38 | T 21 |
| W22 | 6 3 54 | 0 ප් 44'51 | 13 米 13 | 29 × 17 | 20°53 | 7°17 | 26°32 | 6° 7 | 16° 0 | 21°39 | 3° 8 | 24°53 | 24°34 | 1°56 | 13°34 | W22 |
| T 23 | 6 7 50 | 1°46'01 | 26°39 | 27°56 | 22° 8 | 8° 3 | 26°29 | 6°14 | 15°57 | 21°40 | 3° 7 | 24°D52 | 24°31 | 2° 3 | 13°30 | T 23 |
| F 24 | 6 11 47 | 2°47'10 | 9 Υ 40 | 26°39 | 23°24 | 8°49 | 26°27 | 6°21 | 15°55 | 21°40 | 3° 6 | 24°52 | 24°28 | 2° 9 | 13°26 | F 24 |
| S 25 | 6 15 43 | 3°48'20 | 22°20 | 25°28 | 24°39 | 9°35 | 26°25 | 6°28 | 15°52 | 21°41 | 3° 5 | 24°53 | 24°25 | 2°16 | 13°22 | S 25 |
| S 26 | 6 19 40 | 4°49'29 | 4 8 42 | 24°25 | 25°55 | 10°21 | 26°22 | 6°35 | 15°50 | 21°42 | 3° 4 | 24°54 | 24°21 | 2°23 | 13°18 | S 26 |
| M27 | 6 23 37 | 5°50'38 | 16°51 | 23°31 | 27°10 | 11°8 | 26°19 | 6°42 | 15°48 | 21°43 | 3° 2 | 24°55 | 24°18 | 2°29 | 13°13 | M27 |
| T 28 | 6 27 33 | 6°51'48 | 28°49 | 22°47 | 28°26 | 11°54 | 26°16 | 6°50 | 15°45 | 21°44 | 3° 1 | 24°56 | 24°15 | 2°36 | 13° 9 | T 28 |
| W29 | 6 31 30 | 7°52'57 | 10 Ⅲ 41 | 22°13 | 29°41 | 12°40 | 26°13 | 6°57 | 15°43 | 21°45 | 3° 0 | 24°57 | 24°12 | 2°43 | 13° 5 | W29 |
| T 30 | 6 35 26 | 8°54'06 | 22°30 | 21°50 | 0 조 56 | 1 <u>3°</u> 27 | 26°10 | <u>7°</u> 4 | 15°41 | 21°45 | 2°59 | 24°R57 | 24° 9 | 2°49 | 13° 1 | T 30 |
| F 31 | 6 39 23 | 9 ප 55'15 | 49917 | 21 ~ 37 | 2 る 12 | 14 궁 13 | 26 Ω 6 | 7 궁 11 | 15 Ⅱ 38 | 21 米 46 | 2 Ω 58 | 24 × 757 | 24 ∡ 6 | 2956 | 12956 | F 31 |

Delta T = 16.23 sec

JANUARY 1695 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Ŷ | δ | 4 | ħ |) y (| ¥ | Р | P. | v | Ç | Q K | Day |
|------|---------|-------------------|----------------|----------------|---------------|---------------|----------------|-----------------|----------------|----------------|---------------|----------------|-----------------|--------------|--------|------|
| S 1 | 6 43 19 | 10 ට 56'24 | 169 6 | 21°D33 | 3 ප 27 | 15 る 0 | 26°R 3 | 7 궁 18 | 15°R36 | 21) 47 | 2°R56 | 24°R56 | 24 ×7 2 | 3 9 3 | 12°R52 | S 1 |
| S 2 | 6 47 16 | 11°57'32 | 27°58 | 21 ~ 38 | 4°43 | 15°46 | 25 Q 59 | 7°25 | 15 Ⅲ 34 | 21°48 | 2 N 55 | 24 ৴ 54 | 23°59 | 3° 9 | 129548 | S 2 |
| M 3 | 6 51 12 | 12°58'41 | 9Ω 56 | 21°51 | 5°58 | 16°33 | 25°55 | 7°32 | 15°32 | 21°49 | 2°54 | 24°51 | 23°56 | 3°16 | 12°44 | M 3 |
| T 4 | 6 55 9 | 13°59'49 | 22° 0 | 22°12 | 7°14 | 17°19 | 25°51 | 7°39 | 15°29 | 21°51 | 2°52 | 24°48 | 23°53 | 3°22 | 12°39 | T 4 |
| W 5 | 6 59 6 | 15° 0'58 | 4 Mp 15 | 22°40 | 8°29 | 18° 6 | 25°46 | 7°46 | 15°27 | 21°52 | 2°51 | 24°45 | 23°50 | 3°29 | 12°35 | W 5 |
| T 6 | 7 3 2 | 16° 2'06 | 16°41 | 23°14 | 9°45 | 18°52 | 25°42 | 7°53 | 15°25 | 21°53 | 2°50 | 24°42 | 23°46 | 3°36 | 12°31 | T 6 |
| F 7 | 7 6 59 | 17° 3'14 | 29°23 | 23°53 | 11° 0 | 19°39 | 25°37 | 8° 0 | 15°23 | 21°54 | 2°49 | 24°40 | 23°43 | 3°42 | 12°26 | F 7 |
| S 8 | 7 10 55 | 18° 4'22 | 12 ≏ 22 | 24°38 | 12°16 | 20°26 | 25°32 | 8° 7 | 15°21 | 21°55 | 2°47 | 24°D39 | 23°40 | 3°49 | 12°22 | S 8 |
| S 9 | 7 14 52 | 19° 5'30 | 25°42 | 25°27 | 13°31 | 21°12 | 25°27 | 8°14 | 15°19 | 21°56 | 2°46 | 24°39 | 23°37 | 3°56 | 12°18 | S 9 |
| M10 | 7 18 48 | 20° 6'38 | 9 m 25 | 26°20 | 14°46 | 21°59 | 25°22 | 8°21 | 15°17 | 21°58 | 2°45 | 24°40 | 23°34 | 4° 2 | 12°14 | M10 |
| T 11 | 7 22 45 | 21° 7'46 | 23°32 | 27°16 | 16° 2 | 22°46 | 25°16 | 8°28 | 15°15 | 21°59 | 2°43 | 24°41 | 23°31 | 4° 9 | 12° 9 | T 11 |
| W12 | 7 26 41 | 22° 8'54 | 8 √ 2 | 28°16 | 17°17 | 23°33 | 25°11 | 8°35 | 15°13 | 22° 0 | 2°42 | 24°43 | 23°27 | 4°16 | 12° 5 | W12 |
| T 13 | 7 30 38 | 23°10'01 | 22°53 | 29°19 | 18°33 | 24°20 | 25° 5 | 8°42 | 15°11 | 22° 2 | 2°41 | 24°R44 | 23°24 | 4°22 | 12° 1 | T 13 |
| F 14 | 7 34 35 | 24°11'08 | 7 云 57 | 0 云 24 | 19°48 | 25° 7 | 24°59 | 8°49 | 15° 9 | 22° 3 | 2°39 | 24°43 | 23°21 | 4°29 | 11°57 | F 14 |
| S 15 | 7 38 31 | 25°12'15 | 23° 8 | 1°32 | 21° 4 | 25°54 | 24°53 | 8°56 | 15° 8 | 22° 4 | 2°38 | 24°41 | 23°18 | 4°36 | 11°53 | S 15 |
| S 16 | 7 42 28 | 26°13'20 | 8 ≈ 14 | 2°42 | 22°19 | 26°40 | 24°47 | 9° 3 | 15° 6 | 22° 6 | 2°36 | 24°37 | 23°15 | 4°42 | 11°49 | S 16 |
| M17 | 7 46 24 | 27°14'25 | 23° 8 | 3°54 | 23°35 | 27°27 | 24°41 | 9°10 | 15° 4 | 22° 7 | 2°35 | 24°32 | 23°12 | 4°49 | 11°45 | M17 |
| T 18 | 7 50 21 | 28°15'29 | 7 ₩ 39 | 5° 8 | 24°50 | 28°14 | 24°34 | 9°16 | 15° 3 | 22° 9 | 2°34 | 24°27 | 23° 8 | 4°56 | 11°40 | T 18 |
| W19 | 7 54 17 | 29°16'32 | 21°45 | 6°23 | 26° 5 | 29° 1 | 24°28 | 9°23 | 15° 1 | 22°10 | 2°32 | 24°22 | 23° 5 | 5° 2 | 11°36 | W19 |
| T 20 | 7 58 14 | 0≈17'34 | 5 ℃ 21 | 7°40 | 27°21 | 29°48 | 24°21 | 9°30 | 14°59 | 22°12 | 2°31 | 24°18 | 23° 2 | 5° 9 | 11°32 | T 20 |
| F 21 | 8 2 11 | 1°18'35 | 18°29 | 8°58 | 28°36 | 0≈35 | 24°15 | 9°37 | 14°58 | 22°14 | 2°30 | 24°16 | 22°59 | 5°15 | 11°29 | F 21 |
| S 22 | 8 6 7 | 2°19'35 | 1812 | 10°17 | 29°51 | 1°23 | 24° 8 | 9°43 | 14°56 | 22°15 | 2°28 | 24°D15 | 22°56 | 5°22 | 11°25 | S 22 |
| S 23 | 8 10 4 | 3°20'34 | 13°34 | 11°38 | 1≈ 7 | 2°10 | 24° 1 | 9°50 | 14°55 | 22°17 | 2°27 | 24°15 | 22°52 | 5°29 | 11°21 | S 23 |
| M24 | 8 14 0 | 4°21'31 | 25°40 | 13° 0 | 2°22 | 2°57 | 23°54 | 9°57 | 14°53 | 22°18 | 2°26 | 24°17 | 22°49 | 5°35 | 11°17 | M24 |
| T 25 | 8 17 57 | 5°22'28 | 7 Ⅲ 34 | 14°23 | 3°38 | 3°44 | 23°47 | 10° 3 | 14°52 | 22°20 | 2°24 | 24°18 | 22°46 | 5°42 | 11°13 | T 25 |
| W26 | 8 21 53 | 6°23'23 | 19°22 | 15°47 | 4°53 | 4°31 | 23°39 | 10°10 | 14°51 | 22°22 | 2°23 | 24°R19 | 22°43 | 5°49 | 11° 9 | W26 |
| T 27 | 8 25 50 | 7°24'16 | 195 8 | 17°11 | 6° 8 | 5°18 | 23°32 | 10°17 | 14°49 | 22°23 | 2°21 | 24°19 | 22°40 | 5°55 | 11° 6 | T 27 |
| F 28 | 8 29 46 | 8°25'09 | 12°56 | 18°37 | 7°23 | 6° 5 | 23°25 | 10°23 | 14°48 | 22°25 | 2°20 | 24°17 | 22°37 | 6° 2 | 11° 2 | F 28 |
| S 29 | 8 33 43 | 9°26'00 | 24°49 | 20° 4 | 8°39 | 6°52 | 23°17 | 10°30 | 14°47 | 22°27 | 2°19 | 24°13 | 22°33 | 6° 9 | 10°59 | S 29 |
| S 30 | 8 37 40 | 10°26'51 | 6 Ω 49 | 21°32 | 9°54 | 7°40 | 23°10 | 10°36 | 14°46 | 22°29 | 2°17 | 24° 7 | 22°30 | 6°15 | 10°55 | S 30 |
| M31 | 8 41 36 | 11≈27'40 | 18 Ω 57 | 23중 0 | 11≈ 9 | 8≈27 | 23\$\Omega 2 | 10 ප් 43 | 14∏45 | 22) 31 | 2 Ω 16 | 23 × 59 | 22 × 127 | 6922 | 10952 | M31 |

Delta T = 16.19 sec

Greg. Calendar

FEBRUARY 1695 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | φ | δ | 4 | ħ |)ұ(| ¥ | Р | R | Ω | Ç | ķ | Day |
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| T 1 | 8 45 33 | 12≈28'27 | 1 m) 16 | 24 궁 29 | 12≈25 | 9≈14 | 22°R54 | 10 궁 49 | 14°R44 | 22) 32 | 2°R15 | 23°R49 | 22 × 24 | 6939 | 10°R48 | T 1 |
| W 2 | 8 49 29 | 13°29'14 | 13°44 | 26° 0 | 13°40 | 10° 1 | 22 Ω 47 | 10°55 | 14 Ⅱ 43 | 22°34 | 2 Ω 13 | 23 × 740 | 22°21 | 6°35 | 109545 | W 2 |
| T 3 | 8 53 26 | 14°29'59 | 26°25 | 27°31 | 14°55 | 10°49 | 22°39 | 11° 2 | 14°42 | 22°36 | 2°12 | 23°31 | 22°17 | 6°42 | 10°42 | T 3 |
| F 4 | 8 57 22 | 15°30'44 | 9 ≏ 17 | 29° 3 | 16°10 | 11°36 | 22°31 | 11° 8 | 14°41 | 22°38 | 2°11 | 23°23 | 22°14 | 6°49 | 10°38 | F 4 |
| S 5 | 9 1 19 | 16°31'27 | 22°23 | 0≈35 | 17°26 | 12°23 | 22°23 | 11°14 | 14°40 | 22°40 | 2° 9 | 23°18 | 22°11 | 6°55 | 10°35 | S 5 |
| S 6 | 9 5 1 5 | 17°32'09 | 5 M .43 | 2° 9 | 18°41 | 13°10 | 22°15 | 11°20 | 14°39 | 22°42 | 2° 8 | 23°16 | 22° 8 | 7° 2 | 10°32 | S 6 |
| M 7 | 9 9 12 | 18°32'51 | 19°19 | 3°43 | 19°56 | 13°58 | 22° 7 | 11°26 | 14°38 | 22°44 | 2° 7 | 23°D15 | 22° 5 | 7° 8 | 10°29 | M 7 |
| T 8 | 9 13 9 | 19°33'31 | 3 √ 13 | 5°18 | 21°11 | 14°45 | 21°59 | 11°33 | 14°38 | 22°46 | 2° 5 | 23°15 | 22° 2 | 7°15 | 10°26 | T 8 |
| W 9 | 9 17 5 | 20°34'10 | 17°24 | 6°54 | 22°26 | 15°32 | 21°52 | 11°39 | 14°37 | 22°48 | 2° 4 | 23°R16 | 21°58 | 7°22 | 10°23 | W 9 |
| T 10 | 9 21 2 | 21°34'48 | 1 る 53 | 8°31 | 23°42 | 16°20 | 21°44 | 11°45 | 14°36 | 22°50 | 2° 3 | 23°16 | 21°55 | 7°28 | 10°20 | T 10 |
| F 11 | 9 24 58 | 22°35'25 | 16°35 | 10° 9 | 24°57 | 17° 7 | 21°36 | 11°51 | 14°36 | 22°52 | 2° 1 | 23°14 | 21°52 | 7°35 | 10°18 | F 11 |
| S 12 | 9 28 55 | 23°36'00 | 1≈26 | 11°47 | 26°12 | 17°54 | 21°28 | 11°56 | 14°35 | 22°54 | 2° 0 | 23° 9 | 21°49 | 7°42 | 10°15 | S 12 |
| S 13 | 9 32 51 | 24°36'34 | 16°18 | 13°27 | 27°27 | 18°42 | 21°20 | 12° 2 | 14°35 | 22°56 | 1°59 | 23° 2 | 21°46 | 7°48 | 10°12 | S 13 |
| M14 | 9 36 48 | 25°37'07 | 1) 3 | 15° 7 | 28°42 | 19°29 | 21°12 | 12° 8 | 14°35 | 22°58 | 1°58 | 22°52 | 21°43 | 7°55 | 10°10 | M14 |
| T 15 | 9 40 44 | 26°37'37 | 15°33 | 16°48 | 29°57 | 20°17 | 21° 4 | 12°14 | 14°34 | 23° 0 | 1°56 | 22°42 | 21°39 | 8° 2 | 10° 8 | T 15 |
| W16 | 9 44 41 | 27°38'06 | 29°40 | 18°31 | 1 | 21° 4 | 20°56 | 12°20 | 14°34 | 23° 2 | 1°55 | 22°31 | 21°36 | 8° 8 | 10° 5 | W16 |
| T 17 | 9 48 38 | 28°38'34 | 13 Y 21 | 20°14 | 2°28 | 21°51 | 20°48 | 12°25 | 14°34 | 23° 4 | 1°54 | 22°22 | 21°33 | 8°15 | 10° 3 | T 17 |
| F 18 | 9 52 34 | 29°38'59 | 26°35 | 21°58 | 3°43 | 22°39 | 20°41 | 12°31 | 14°34 | 23° 6 | 1°53 | 22°15 | 21°30 | 8°22 | 10° 1 | F 18 |
| S 19 | 9 56 31 | 0 ∺ 39'23 | 9823 | 23°43 | 4°58 | 23°26 | 20°33 | 12°36 | 14°33 | 23° 8 | 1°52 | 22°11 | 21°27 | 8°28 | 9°59 | S 19 |
| S 20 | 10 0 27 | 1°39'44 | 21°48 | 25°29 | 6°13 | 24°13 | 20°25 | 12°42 | 14°33 | 23°11 | 1°50 | 22° 8 | 21°23 | 8°35 | 9°57 | S 20 |
| M21 | 10 4 24 | 2°40'04 | 3耳56 | 27°16 | 7°28 | 25° 1 | 20°18 | 12°47 | 14°D33 | 23°13 | 1°49 | 22°D 8 | 21°20 | 8°42 | 9°55 | M21 |
| T 22 | 10 8 20 | 3°40'21 | 15°51 | 29° 4 | 8°43 | 25°48 | 20°10 | 12°52 | 14°33 | 23°15 | 1°48 | 22°R 8 | 21°17 | 8°48 | 9°53 | T 22 |
| W23 | 10 12 17 | 4°40'37 | 27°39 | 0 ∺ 53 | 9°58 | 26°35 | 20° 2 | 12°58 | 14°34 | 23°17 | 1°47 | 22° 8 | 21°14 | 8°55 | 9°51 | W23 |
| T 24 | 10 16 13 | 5°40'51 | 99326 | 2°43 | 11°13 | 27°23 | 19°55 | 13° 3 | 14°34 | 23°19 | 1°46 | 22° 7 | 21°11 | 9° 2 | 9°50 | T 24 |
| F 25 | 10 20 10 | 6°41'02 | 21°16 | 4°34 | 12°28 | 28°10 | 19°48 | 13° 8 | 14°34 | 23°21 | 1°45 | 22° 3 | 21° 8 | 9° 8 | 9°48 | F 25 |
| S 26 | 10 24 7 | 7°41'12 | 3 Ω 13 | 6°26 | 13°42 | 28°57 | 19°40 | 13°13 | 14°34 | 23°24 | 1°44 | 21°57 | 21° 4 | 9°15 | 9°47 | S 26 |
| S 27 | 10 28 3 | 8°41'19 | 15°21 | 8°19 | 14°57 | 29°45 | 19°33 | 13°18 | 14°34 | 23°26 | 1°43 | 21°48 | 21° 1 | 9°22 | 9°45 | S 27 |
| M28 | 10 32 0 | 9) 41'25 | 27 Ω 42 | 10) € 13 | 16 ∺ 12 | 0 ∺ 32 | 19 Ω 26 | 13 る 23 | 14 Ⅱ 35 | 23) 28 | 1 Q 42 | 21 × 36 | 20 ₮ 58 | 9928 | 99544 | M28 |

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|------|----------|-------------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|-----------------|----------------|-------|-------|------|
| T 1 | 10 35 56 | 10) 41'29 | 10 m /16 | 12 米 8 | 17) 27 | 1 米 19 | 19°R19 | 13 る 28 | 14∏35 | 23 米 30 | 1°R41 | 21°R23 | 20 х 55 | 9935 | 9°R43 | T 1 |
| W 2 | 10 39 53 | 11°41'30 | 23° 4 | 14° 3 | 18°42 | 2° 7 | 19 Ω 12 | 13°33 | 14°36 | 23°32 | $1\Omega 40$ | 21 🗷 9 | 20°52 | 9°41 | 99542 | W 2 |
| T 3 | 10 43 49 | 12°41'30 | 6 ♀ 5 | 15°59 | 19°57 | 2°54 | 19° 6 | 13°37 | 14°36 | 23°35 | 1°39 | 20°57 | 20°49 | 9°48 | 9°41 | T 3 |
| F 4 | 10 47 46 | 13°41'28 | 19°17 | 17°56 | 21°11 | 3°41 | 18°59 | 13°42 | 14°37 | 23°37 | 1°38 | 20°46 | 20°45 | 9°55 | 9°40 | F 4 |
| S 5 | 10 51 42 | 14°41'25 | 2 M 41 | 19°53 | 22°26 | 4°28 | 18°52 | 13°47 | 14°37 | 23°39 | 1°37 | 20°38 | 20°42 | 10° 1 | 9°39 | S 5 |
| S 6 | 10 55 39 | 15°41'20 | 16°14 | 21°51 | 23°41 | 5°16 | 18°46 | 13°51 | 14°38 | 23°41 | 1°36 | 20°33 | 20°39 | 10° 8 | 9°38 | S 6 |
| M 7 | 10 59 35 | 16°41'13 | 29°57 | 23°49 | 24°56 | 6° 3 | 18°40 | 13°56 | 14°39 | 23°44 | 1°35 | 20°30 | 20°36 | 10°15 | 9°38 | M 7 |
| T 8 | 11 3 32 | 17°41'04 | 13 ×7 49 | 25°47 | 26°10 | 6°50 | 18°34 | 14° 0 | 14°40 | 23°46 | 1°34 | 20°30 | 20°33 | 10°21 | 9°37 | T 8 |
| W 9 | 11 7 29 | 18°40'54 | 2 <u>7</u> °51 | 27°44 | 27°25 | 7°37 | 18°28 | 14° 4 | 14°41 | 23°48 | 1°33 | 20°30 | 20°29 | 10°28 | 9°37 | W 9 |
| T 10 | 11 11 25 | 19°40'42 | 12る 3 | 29°41 | 28°40 | 8°25 | 18°22 | 14° 8 | 14°41 | 23°51 | 1°32 | 20°29 | 20°26 | 10°35 | 9°36 | T 10 |
| F 11 | 11 15 22 | 20°40'29 | 26°23 | 1 Y 37 | 29°55 | 9°12 | 18°16 | 14°13 | 14°42 | 23°53 | 1°31 | 20°26 | 20°23 | 10°41 | 9°36 | F 11 |
| S 12 | 11 19 18 | 21°40'13 | 10≈49 | 3°32 | 1 Υ 9 | 9°59 | 18°10 | 14°17 | 14°43 | 23°55 | 1°31 | 20°20 | 20°20 | 10°48 | 9°36 | S 12 |
| S 13 | 11 23 15 | 22°39'56 | 25°15 | 5°25 | 2°24 | 10°46 | 18° 5 | 14°21 | 14°44 | 23°57 | 1°30 | 20°12 | 20°17 | 10°55 | 9°D36 | S 13 |
| M14 | 11 27 11 | 23°39'37 | 9) 37 | 7°16 | 3°38 | 11°33 | 17°59 | 14°24 | 14°46 | 24° 0 | 1°29 | 20° 1 | 20°14 | 11° 1 | 9°36 | M14 |
| T 15 | 11 31 8 | 24°39'16 | 23°47 | 9° 4 | 4°53 | 12°20 | 17°54 | 14°28 | 14°47 | 24° 2 | 1°28 | 19°48 | 20°10 | 11°8 | 9°36 | T 15 |
| W16 | 11 35 4 | 25°38'53 | 7 Υ 41 | 10°50 | 6° 8 | 13° 8 | 17°49 | 14°32 | 14°48 | 24° 4 | 1°27 | 19°36 | 20° 7 | 11°15 | 9°36 | W16 |
| T 17 | 11 39 1 | 26°38'28 | 21°14 | 12°32 | 7°22 | 13°55 | 17°44 | 14°36 | 14°49 | 24° 6 | 1°27 | 19°25 | 20° 4 | 11°21 | 9°37 | T 17 |
| F 18 | 11 42 58 | 27°38'01 | 4 8 25 | 14°10 | 8°37 | 14°42 | 17°40 | 14°39 | 14°50 | 24° 9 | 1°26 | 19°16 | 20° 1 | 11°28 | 9°37 | F 18 |
| S 19 | 11 46 54 | 28°37'31 | 17°12 | 15°45 | 9°51 | 15°29 | 17°35 | 14°43 | 14°52 | 24°11 | 1°25 | 19°10 | 19°58 | 11°35 | 9°38 | S 19 |
| S 20 | 11 50 51 | 29°37'00 | 29°38 | 17°14 | 11° 5 | 16°16 | 17°31 | 14°46 | 14°53 | 24°13 | 1°25 | 19° 6 | 19°54 | 11°41 | 9°38 | S 20 |
| M21 | 11 54 47 | 0 Υ 36'26 | 11 Ⅱ 48 | 18°38 | 12°20 | 17° 3 | 17°27 | 14°49 | 14°55 | 24°16 | 1°24 | 19° 5 | 19°51 | 11°48 | 9°39 | M21 |
| T 22 | 11 58 44 | 1°35'50 | 23°45 | 19°57 | 13°34 | 17°50 | 17°23 | 14°53 | 14°56 | 24°18 | 1°24 | 19°D 5 | 19°48 | 11°55 | 9°40 | T 22 |
| W23 | 12 2 40 | 2°35'11 | 5934 | 21°10 | 14°49 | 18°37 | 17°19 | 14°56 | 14°58 | 24°20 | 1°23 | 19°R 5 | 19°45 | 12° 1 | 9°41 | W23 |
| T 24 | 12 6 37 | 3°34'30 | 17°23 | 22°17 | 16° 3 | 19°24 | 17°15 | 14°59 | 14°59 | 24°22 | 1°23 | 19° 4 | 19°42 | 12° 8 | 9°42 | T 24 |
| F 25 | 12 10 33 | 4°33'47 | 29°15 | 23°17 | 17°17 | 20°11 | 17°12 | 15° 2 | 15° 1 | 24°25 | 1°22 | 19° 1 | 19°39 | 12°15 | 9°43 | F 25 |
| S 26 | 12 14 30 | 5°33'01 | 11 Ω 16 | 24°11 | 18°32 | 20°57 | 17° 8 | 15° 5 | 15° 3 | 24°27 | 1°22 | 18°56 | 19°35 | 12°21 | 9°44 | S 26 |
| S 27 | 12 18 27 | 6°32'14 | 23°30 | 24°58 | 19°46 | 21°44 | 17° 5 | 15° 7 | 15° 4 | 24°29 | 1°21 | 18°48 | 19°32 | 12°28 | 9°45 | S 27 |
| M28 | 12 22 23 | 7°31'23 | 6Mp 0 | 25°38 | 21° 0 | 22°31 | 17° 2 | 15°10 | 15° 6 | 24°31 | 1°21 | 18°38 | 19°29 | 12°34 | 9°47 | M28 |
| T 29 | 12 26 20 | 8°30'31 | 18°47 | 26°11 | 22°14 | 23°18 | 16°59 | 15°13 | 15° 8 | 24°33 | 1°20 | 18°27 | 19°26 | 12°41 | 9°48 | T 29 |
| W30 | 12 30 16 | 9°29'37 | 1 ≏ 53 | 26°37 | 23°28 | 24° 5 | 16°57 | 15°15 | 15°10 | 24°36 | 1°20 | 18°15 | 19°23 | 12°48 | 9°50 | W30 |
| T 31 | 12 34 13 | 10 Υ 28'40 | 15 ≏ 15 | 26 Y 55 | 24 Y 43 | 24) 51 | 16 Ω 54 | 15 る 18 | 15 Ⅱ 12 | 24) 38 | 1Ω 19 | 18 ∡ 7 4 | 19 ₹ 20 | 12954 | 9951 | T 31 |

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Greg. Calendar

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| Day | Sid.t | \odot | D | φ | Q | o ⁷ | 4 | ħ |)∤(| ¥ | 2 | R | Ω | ţ | Š | Day |
|------|----------|-------------------|----------------|---------------|----------------|-----------------|----------------|----------------|----------------|-----------------|---------------|-----------------|-----------------|--------|--------|------|
| F 1 | 12 38 9 | 11 Y 27'41 | 28 ჲ 52 | 27 Y 7 | 25 Y 57 | 25) (38 | 16°R52 | 15 る 20 | 15 Ⅱ 14 | 24) (40 | 1°R19 | 17°R54 | 19 .7 16 | 1399 1 | 9953 | F 1 |
| S 2 | 12 42 6 | 12°26'41 | 12 M 40 | 27°R12 | 27°11 | 26°25 | 16 Ω 50 | 15°22 | 15°16 | 24°42 | 1Ω 19 | 17 .₹ 47 | 19°13 | 13° 8 | 9°55 | S 2 |
| S 3 | 12 46 2 | 13°25'39 | 26°36 | 27°10 | 28°25 | 27°11 | 16°48 | 15°24 | 15°18 | 24°44 | 1°19 | 17°43 | 19°10 | 13°14 | 9°57 | S 3 |
| M 4 | 12 49 59 | 14°24'34 | 10 × 38 | 27° 1 | 29°39 | 27°58 | 16°46 | 15°27 | 15°20 | 24°47 | 1°18 | 17°41 | 19° 7 | 13°21 | 9°59 | M 4 |
| T 5 | 12 53 55 | 15°23'29 | 24°43 | 26°46 | 0 8 53 | 28°45 | 16°45 | 15°28 | 15°22 | 24°49 | 1°18 | 17°D41 | 19° 4 | 13°28 | 10° 1 | T 5 |
| W 6 | 12 57 52 | 16°22'21 | 8 궁 50 | 26°26 | 2° 7 | 29°31 | 16°44 | 15°30 | 15°24 | 24°51 | 1°18 | 17°42 | 19° 0 | 13°34 | 10° 3 | W 6 |
| T 7 | 13 1 49 | 17°21'12 | 22°58 | 26° 0 | 3°21 | 0 Υ 18 | 16°43 | 15°32 | 15°26 | 24°53 | 1°18 | 17°R42 | 18°57 | 13°41 | 10° 6 | T 7 |
| F 8 | 13 5 45 | 18°20'01 | 7 ≈ 5 | 25°30 | 4°35 | 1° 4 | 16°42 | 15°34 | 15°29 | 24°55 | 1°18 | 17°40 | 18°54 | 13°48 | 10° 8 | F 8 |
| S 9 | 13 9 42 | 19°18'48 | 21°10 | 24°55 | 5°49 | 1°51 | 16°41 | 15°35 | 15°31 | 24°57 | 1°17 | 17°37 | 18°51 | 13°54 | 10°10 | S 9 |
| S 10 | 13 13 38 | 20°17'33 | 5) €12 | 24°17 | 7° 3 | 2°37 | 16°40 | 15°37 | 15°33 | 24°59 | 1°17 | 17°30 | 18°48 | 14° 1 | 10°13 | S 10 |
| M11 | 13 17 35 | 21°16'17 | 19° 6 | 23°37 | 8°16 | 3°23 | 16°40 | 15°38 | 15°36 | 25° 2 | 1°17 | 17°22 | 18°45 | 14° 8 | 10°16 | M11 |
| T 12 | 13 21 31 | 22°14'59 | 2 Υ 50 | 22°55 | 9°30 | 4°10 | 16°D40 | 15°40 | 15°38 | 25° 4 | 1°17 | 17°13 | 18°41 | 14°14 | 10°18 | T 12 |
| W13 | 13 25 28 | 23°13'39 | 16°20 | 22°12 | 10°44 | 4°56 | 16°40 | 15°41 | 15°40 | 25° 6 | 1°D17 | 17° 4 | 18°38 | 14°21 | 10°21 | W13 |
| T 14 | 13 29 24 | 24°12'17 | 29°34 | 21°28 | 11°58 | 5°42 | 16°40 | 15°42 | 15°43 | 25° 8 | 1°17 | 16°55 | 18°35 | 14°28 | 10°24 | T 14 |
| F 15 | 13 33 21 | 25°10'53 | 12830 | 20°46 | 13°12 | 6°29 | 16°40 | 15°43 | 15°45 | 25°10 | 1°17 | 16°49 | 18°32 | 14°34 | 10°27 | F 15 |
| S 16 | 13 37 18 | 26° 9'27 | 25° 8 | 20° 4 | 14°25 | 7°15 | 16°41 | 15°44 | 15°48 | 25°12 | 1°17 | 16°44 | 18°29 | 14°41 | 10°30 | S 16 |
| S 17 | 13 41 14 | 27° 7'59 | 7 Ⅲ 30 | 19°25 | 15°39 | 8° 1 | 16°42 | 15°44 | 15°51 | 25°14 | 1°17 | 16°42 | 18°26 | 14°48 | 10°33 | S 17 |
| M18 | 13 45 11 | 28° 6'30 | 19°37 | 18°49 | 16°53 | 8°47 | 16°43 | 15°45 | 15°53 | 25°16 | 1°17 | 16°D41 | 18°22 | 14°54 | 10°37 | M18 |
| T 19 | 13 49 7 | 29° 4'58 | 1934 | 18°16 | 18° 6 | 9°33 | 16°44 | 15°46 | 15°56 | 25°18 | 1°18 | 16°42 | 18°19 | 15° 1 | 10°40 | T 19 |
| W20 | 13 53 4 | 08 3'23 | 13°25 | 17°46 | 19°20 | 10°19 | 16°45 | 15°46 | 15°59 | 25°20 | 1°18 | 16°43 | 18°16 | 15° 8 | 10°43 | W20 |
| T 21 | 13 57 0 | 1° 1'47 | 25°14 | 17°21 | 20°33 | 11° 5 | 16°47 | 15°47 | 16° 1 | 25°22 | 1°18 | 16°45 | 18°13 | 15°14 | 10°47 | T 21 |
| F 22 | 14 0 57 | 2° 0'09 | 7Ω 7 | 17° 0 | 21°47 | 11°51 | 16°48 | 15°47 | 16° 4 | 25°24 | 1°18 | 16°R45 | 18°10 | 15°21 | 10°50 | F 22 |
| S 23 | 14 4 53 | 2°58'28 | 19° 9 | 16°43 | 23° 0 | 12°37 | 16°50 | 15°47 | 16° 7 | 25°26 | 1°18 | 16°43 | 18° 6 | 15°28 | 10°54 | S 23 |
| S 24 | 14 8 50 | 3°56'46 | 1 m 25 | 16°32 | 24°14 | 13°23 | 16°52 | 15°47 | 16°10 | 25°27 | 1°19 | 16°40 | 18° 3 | 15°34 | 10°58 | S 24 |
| M25 | 14 12 47 | 4°55'01 | 13°59 | 16°25 | 25°27 | 14° 9 | 16°54 | 15°R47 | 16°13 | 25°29 | 1°19 | 16°35 | 18° 0 | 15°41 | 11° 1 | M25 |
| T 26 | 14 16 43 | 5°53'14 | 26°53 | 16°D23 | 26°40 | 14°54 | 16°57 | 15°47 | 16°15 | 25°31 | 1°19 | 16°29 | 17°57 | 15°48 | 11° 5 | T 26 |
| W27 | 14 20 40 | 6°51'25 | 10₽9 | 16°26 | 27°54 | 15°40 | 16°59 | 15°47 | 16°18 | 25°33 | 1°20 | 16°22 | 17°54 | 15°54 | 11° 9 | W27 |
| T 28 | 14 24 36 | 7°49'35 | 23°47 | 16°34 | 29° 7 | 16°26 | 17° 2 | 15°47 | 16°21 | 25°35 | 1°20 | 16°16 | 17°51 | 16° 1 | 11°13 | T 28 |
| F 29 | 14 28 33 | 8°47'43 | 7M44 | 16°46 | 0 <u>∏</u> 20 | 17°11 | 17° 5 | 15°46 | 16°24 | 25°37 | 1°20 | 16°11 | 17°47 | 16° 8 | 11°17 | F 29 |
| S 30 | 14 32 29 | 9845'49 | 21 M 56 | 17 Y 3 | 1 Ⅱ 34 | 17 Y 57 | 17 Ω 8 | 15 る 46 | 16耳27 | 25 米 38 | 1 A 21 | 16 ⋌ 7 | 17 ,7 44 | 169914 | 119921 | S 30 |

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| S 1 | 14 36 26 | 10843'53 | 6 ₹ 19 | 17 Υ 25 | 2 Ц 47 | 18 Y 43 | 17Ω11 | 15°R45 | 16耳30 | 25) (40 | 1 Ω 21 | 16°R 5 | 17 .7 41 | 169521 | 119526 | S 1 |
| M 2 | 14 40 22 | 11°41'56 | 20°46 | 17°51 | 4° 0 | 19°28 | 17°15 | 15 る 45 | 16°33 | 25°42 | 1°22 | 16°D 5 | 17°38 | 16°28 | 11°30 | M 2 |
| T 3 | 14 44 19 | 12°39'58 | 5 궁 14 | 18°21 | 5°13 | 20°13 | 17°18 | 15°44 | 16°36 | 25°43 | 1°22 | 16 ₹ 6 | 17°35 | 16°34 | 11°34 | T 3 |
| W 4 | 14 48 16 | 13°37'58 | 19°38 | 18°55 | 6°26 | 20°59 | 17°22 | 15°43 | 16°40 | 25°45 | 1°23 | 16° 7 | 17°31 | 16°41 | 11°39 | W 4 |
| T 5 | 14 52 12 | 14°35'57 | 3≈55 | 19°33 | 7°39 | 21°44 | 17°26 | 15°42 | 16°43 | 25°47 | 1°23 | 16° 8 | 17°28 | 16°48 | 11°43 | T 5 |
| F 6 | 14 56 9 | 15°33'54 | 18° 2 | 20°15 | 8°52 | 22°30 | 17°30 | 15°41 | 16°46 | 25°48 | 1°24 | 16°R 9 | 17°25 | 16°54 | 11°48 | F 6 |
| S 7 | 15 0 5 | 16°31'50 | 1) 58 | 21° 1 | 10° 5 | 23°15 | 17°34 | 15°40 | 16°49 | 25°50 | 1°24 | 16° 8 | 17°22 | 17° 1 | 11°52 | S 7 |
| S 8 | 15 4 2 | 17°29'45 | 15°43 | 21°50 | 11°18 | 24° 0 | 17°39 | 15°39 | 16°52 | 25°52 | 1°25 | 16° 6 | 17°19 | 17° 8 | 11°57 | S 8 |
| M 9 | 15 7 58 | 18°27'39 | 29°15 | 22°42 | 12°31 | 24°45 | 17°43 | 15°38 | 16°55 | 25°53 | 1°26 | 16° 2 | 17°16 | 17°14 | 12° 2 | M 9 |
| T 10 | 15 11 55 | 19°25'31 | 12 Y 34 | 23°38 | 13°44 | 25°30 | 17°48 | 15°36 | 16°59 | 25°55 | 1°26 | 15°58 | 17°12 | 17°21 | 12° 7 | T 10 |
| W11 | 15 15 51 | 20°23'22 | 25°39 | 24°37 | 14°57 | 26°15 | 17°53 | 15°35 | 17° 2 | 25°56 | 1°27 | 15°54 | 17° 9 | 17°28 | 12°12 | W11 |
| T 12 | 15 19 48 | 21°21'12 | 8 8 30 | 25°39 | 16°10 | 27° 0 | 17°58 | 15°33 | 17° 5 | 25°58 | 1°28 | 15°51 | 17° 6 | 17°34 | 12°16 | T 12 |
| F 13 | 15 23 45 | 22°19'00 | 21° 7 | 26°44 | 17°23 | 27°45 | 18° 3 | 15°31 | 17° 8 | 25°59 | 1°29 | 15°48 | 17° 3 | 17°41 | 12°21 | F 13 |
| S 14 | 15 27 41 | 23°16'47 | 3 Ⅱ 31 | 27°52 | 18°35 | 28°30 | 18° 9 | 15°30 | 17°12 | 26° 1 | 1°29 | 15°46 | 17° 0 | 17°48 | 12°27 | S 14 |
| S 15 | 15 31 38 | 24°14'33 | 15°43 | 29° 2 | 19°48 | 29°15 | 18°14 | 15°28 | 17°15 | 26° 2 | 1°30 | 15°D46 | 16°57 | 17°54 | 12°32 | S 15 |
| M16 | 15 35 34 | 25°12'17 | 27°44 | 0816 | 21° 1 | 29°59 | 18°20 | 15°26 | 17°19 | 26° 3 | 1°31 | 15°46 | 16°53 | 18° 1 | 12°37 | M16 |
| T 17 | 15 39 31 | 26° 9'59 | 9938 | 1°32 | 22°14 | 0 8 45 | 18°26 | 15°24 | 17°22 | 26° 5 | 1°32 | 15°47 | 16°50 | 18° 8 | 12°42 | T 17 |
| W18 | 15 43 27 | 27° 7'41 | 21°28 | 2°50 | 23°26 | 1°29 | 18°32 | 15°22 | 17°25 | 26° 6 | 1°33 | 15°49 | 16°47 | 18°14 | 12°47 | W18 |
| T 19 | 15 47 24 | 28° 5'20 | 3 Ω 17 | 4°11 | 24°39 | 2°14 | 18°38 | 15°19 | 17°29 | 26° 7 | 1°34 | 15°50 | 16°44 | 18°21 | 12°53 | T 19 |
| F 20 | 15 51 20 | 29° 2'58 | 15°10 | 5°35 | 25°51 | 2°59 | 18°44 | 15°17 | 17°32 | 26° 9 | 1°35 | 15°51 | 16°41 | 18°28 | 12°58 | F 20 |
| S 21 | 15 55 17 | 0耳 0'35 | 27°12 | 7° 1 | 27° 4 | 3°43 | 18°50 | 15°15 | 17°36 | 26°10 | 1°35 | 15°R52 | 16°37 | 18°34 | 13° 4 | S 21 |
| S 22 | 15 59 14 | 0°58'10 | 9 ™ 27 | 8°30 | 28°16 | 4°28 | 18°57 | 15°12 | 17°39 | 26°11 | 1°36 | 15°52 | 16°34 | 18°41 | 13° 9 | S 22 |
| M23 | 16 3 10 | 1°55'44 | 21°59 | 10° 1 | 29°29 | 5°12 | 19° 3 | 15°10 | 17°42 | 26°12 | 1°37 | 15°51 | 16°31 | 18°48 | 13°15 | M23 |
| T 24 | 16 7 7 | 2°53'16 | 4 Ω 53 | 11°35 | 09୍ଦ41 | 5°56 | 19°10 | 15° 7 | 17°46 | 26°13 | 1°38 | 15°50 | 16°28 | 18°54 | 13°20 | T 24 |
| W25 | 16 11 3 | 3°50'47 | 18°11 | 13°11 | 1°53 | 6°41 | 19°17 | 15° 4 | 17°49 | 26°15 | 1°39 | 15°48 | 16°25 | 19° 1 | 13°26 | W25 |
| T 26 | 16 15 0 | 4°48'16 | 1 M 55 | 14°49 | 3° 6 | 7°25 | 19°24 | 15° 2 | 17°53 | 26°16 | 1°40 | 15°47 | 16°22 | 19° 8 | 13°32 | T 26 |
| F 27 | 16 18 56 | 5°45'45 | 16° 2 | 16°30 | 4°18 | 8° 9 | 19°31 | 14°59 | 17°56 | 26°17 | 1°41 | 15°45 | 16°18 | 19°14 | 13°37 | F 27 |
| S 28 | 16 22 53 | 6°43'12 | 0 ₮ 30 | 18°13 | 5°30 | 8°53 | 19°39 | 14°56 | 18° 0 | 26°18 | 1°43 | 15°45 | 16°15 | 19°21 | 13°43 | S 28 |
| S 29 | 16 26 49 | 7°40'39 | 1 <u>5</u> °13 | 19°59 | 6°42 | 9°37 | 19°46 | 14°53 | 18° 3 | 26°19 | 1°44 | 15°D44 | 16°12 | 19°28 | 13°49 | S 29 |
| M30 | 16 30 46 | 8°38'04 | 0 중 5 | 21°47 | 7°54 | 10°21 | 19°54 | 1 <u>4</u> °50 | 18° 7 | 26°20 | 1°45 | 15°45 | 16° 9 | 19°34 | 13°55 | M30 |
| T 31 | 16 34 43 | 9∏35'29 | 14 る 58 | 23 8 37 | 995 6 | 118 5 | 20 Ω 1 | 14 궁 47 | 18 Ⅱ 10 | 26 ∺ 21 | 1 Ω 46 | 15 ₹ 45 | 16 才 6 | 199541 | 1499 1 | T 31 |

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| W 1 | 16 38 39 | 10 Ⅲ 32'52 | 29 궁 44 | 25 8 30 | 109519 | 11 8 49 | 20 N 9 | 14°R43 | 18 Ⅱ 14 | 26) 22 | 1 Ω 47 | 15 ∡ 746 | 16 ₹ 3 | 199548 | 1495 7 | W 1 |
| T 2 | 16 42 36 | 11°30'16 | 14≈18 | 27°25 | 11°30 | 12°33 | 20°17 | 14 궁 40 | 18°18 | 26°23 | 1°48 | 15°46 | 15°59 | 19°54 | 14°13 | T 2 |
| F 3 | 16 46 32 | 12°27'38 | 28°36 | 29°22 | 12°42 | 13°17 | 20°25 | 14°37 | 18°21 | 26°23 | 1°49 | 15°46 | 15°56 | 20° 1 | 14°19 | F 3 |
| S 4 | 16 50 29 | 13°25'00 | 12) 34 | 1 Ⅱ 22 | 13°54 | 14° 1 | 20°33 | 14°33 | 18°25 | 26°24 | 1°51 | 15°R46 | 15°53 | 20° 8 | 14°25 | S 4 |
| S 5 | 16 54 25 | 14°22'21 | 26°13 | 3°23 | 15° 6 | 14°44 | 20°42 | 14°30 | 18°28 | 26°25 | 1°52 | 15°46 | 15°50 | 20°14 | 14°31 | S 5 |
| M 6 | 16 58 22 | 15°19'42 | 9 Υ 32 | 5°27 | 16°18 | 15°28 | 20°50 | 14°26 | 18°32 | 26°26 | 1°53 | 15°D46 | 15°47 | 20°21 | 14°37 | M 6 |
| T 7 | 17 2 18 | 16°17'03 | 22°34 | 7°32 | 17°30 | 16°12 | 20°59 | 14°23 | 18°35 | 26°27 | 1°54 | 15°46 | 15°43 | 20°28 | 14°43 | T 7 |
| W 8 | 17 6 15 | 17°14'23 | 5 8 20 | 9°39 | 18°41 | 16°55 | 21° 7 | 14°19 | 18°39 | 26°27 | 1°56 | 15°46 | 15°40 | 20°34 | 14°49 | W 8 |
| T 9 | 17 10 12 | 18°11'42 | 17°51 | 11°47 | 19°53 | 17°39 | 21°16 | 14°16 | 18°43 | 26°28 | 1°57 | 15°47 | 15°37 | 20°41 | 14°56 | T 9 |
| F 10 | 17 14 8 | 19° 9'01 | 0 Ⅱ 11 | 13°56 | 21° 5 | 18°22 | 21°25 | 14°12 | 18°46 | 26°29 | 1°58 | 15°47 | 15°34 | 20°48 | 15° 2 | F 10 |
| S 11 | 17 18 5 | 20° 6'20 | 12°20 | 16° 7 | 22°16 | 19° 5 | 21°34 | 14° 8 | 18°50 | 26°29 | 2° 0 | 15°R47 | 15°31 | 20°54 | 15° 8 | S 11 |
| S 12 | 17 22 1 | 21° 3'38 | 24°21 | 18°18 | 23°28 | 19°49 | 21°43 | 14° 4 | 18°53 | 26°30 | 2° 1 | 15°47 | 15°28 | 21° 1 | 15°15 | S 12 |
| M13 | 17 25 58 | 22° 0'55 | 69916 | 20°30 | 24°39 | 20°32 | 21°52 | 14° 0 | 18°57 | 26°30 | 2° 2 | 15°47 | 15°24 | 21° 8 | 15°21 | M13 |
| T 14 | 17 29 54 | 22°58'12 | 18° 6 | 22°42 | 25°51 | 21°15 | 22° 1 | 13°56 | 19° 0 | 26°31 | 2° 4 | 15°46 | 15°21 | 21°14 | 15°27 | T 14 |
| W15 | 17 33 51 | 23°55'28 | 29°55 | 24°53 | 27° 2 | 21°58 | 22°11 | 13°52 | 19° 4 | 26°31 | 2° 5 | 15°45 | 15°18 | 21°21 | 15°34 | W15 |
| T 16 | 17 37 47 | 24°52'44 | 11 Ω 45 | 27° 5 | 28°13 | 22°41 | 22°20 | 13°48 | 19° 7 | 26°32 | 2° 7 | 15°44 | 15°15 | 21°28 | 15°40 | T 16 |
| F 17 | 17 41 44 | 25°49'59 | 23°39 | 29°15 | 29°25 | 23°24 | 22°30 | 13°44 | 19°11 | 26°32 | 2° 8 | 15°42 | 15°12 | 21°34 | 15°47 | F 17 |
| S 18 | 17 45 41 | 26°47'13 | 5 M)41 | 19525 | 0 Ω 36 | 24° 7 | 22°39 | 13°40 | 19°15 | 26°33 | 2°10 | 15°41 | 15° 9 | 21°41 | 15°53 | S 18 |
| S 19 | 17 49 37 | 27°44'27 | 17°54 | 3°34 | 1°47 | 24°50 | 22°49 | 13°36 | 19°18 | 26°33 | 2°11 | 15°41 | 15° 5 | 21°48 | 16° 0 | S 19 |
| M20 | 17 53 34 | 28°41'40 | 0 ჲ 24 | 5°41 | 2°58 | 25°33 | 22°59 | 13°32 | 19°22 | 26°33 | 2°12 | 15°D40 | 15° 2 | 21°54 | 16° 7 | M20 |
| T 21 | 17 57 30 | 29°38'52 | 13°14 | 7°47 | 4° 9 | 26°15 | 23° 9 | 13°28 | 19°25 | 26°34 | 2°14 | 15°41 | 14°59 | 22° 1 | 16°13 | T 21 |
| W22 | 18 1 27 | 0936'04 | 26°27 | 9°51 | 5°20 | 26°58 | 23°19 | 13°23 | 19°29 | 26°34 | 2°15 | 15°42 | 14°56 | 22° 8 | 16°20 | W22 |
| T 23 | 18 5 23 | 1°33'16 | 10M 6 | 11°54 | 6°31 | 27°41 | 23°29 | 13°19 | 19°32 | 26°34 | 2°17 | 15°43 | 14°53 | 22°14 | 16°26 | T 23 |
| F 24 | 18 9 20 | 2°30'27 | 24°12 | 13°55 | 7°42 | 28°23 | 23°39 | 13°15 | 19°36 | 26°34 | 2°19 | 15°44 | 14°49 | 22°21 | 16°33 | F 24 |
| S 25 | 18 13 16 | 3°27'38 | 8 才 43 | 15°54 | 8°52 | 29° 6 | 23°50 | 13°10 | 19°39 | 26°34 | 2°20 | 15°R45 | 14°46 | 22°28 | 16°40 | S 25 |
| S 26 | 18 17 13 | 4°24'48 | 23°35 | 17°51 | 10° 3 | 29°48 | 24° 0 | 13° 6 | 19°43 | 26°34 | 2°22 | 15°45 | 14°43 | 22°34 | 16°46 | S 26 |
| M27 | 18 21 10 | 5°21'58 | 8 ਰ 41 | 19°46 | 11°14 | 0Д30 | 24°10 | 13° 2 | 19°46 | 26°35 | 2°23 | 15°44 | 14°40 | 22°41 | 16°53 | M27 |
| T 28 | 18 25 6 | 6°19'09 | 23°52 | 21°39 | 12°24 | 1°13 | 24°21 | 12°57 | 19°50 | 26°35 | 2°25 | 15°42 | 14°37 | 22°48 | 17° 0 | T 28 |
| W29 | 18 29 3 | 7°16'19 | 8 ≈ 58 | 23°30 | 13°35 | 1°55 | 24°32 | 12°53 | 19°53 | 26°R35 | 2°26 | 15°39 | 14°34 | 22°54 | 17° 7 | W29 |
| T 30 | 18 32 59 | 8913'29 | 23≈51 | 25919 | 14 Ω 45 | 2 Ⅱ 37 | 24 Ω 42 | 12 る 49 | 19 Ⅱ 57 | 26) 35 | 2 Ω 28 | 15 ₹ 36 | 14 × 30 | 2399 1 | 179913 | T 30 |

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| F 1 | 18 36 56 | 99510'40 | 8 ∺ 23 | 2795 6 | 15 Ω 55 | 3耳19 | 24 \O 53 | 12°R44 | 20耳 0 | 26°R35 | 2 Ω 30 | 15°R34 | 14 × 127 | 2395 8 | 17920 | F 1 |
| S 2 | 18 40 52 | 10° 7'51 | 22°31 | 28°51 | 17° 6 | 4° 1 | 25° 4 | 12 る 40 | 20° 3 | 26 ¥ 35 | 2°31 | 15 ₹ 32 | 14°24 | 23°14 | 17°27 | S 2 |
| S 3 | 18 44 49 | 11° 5'02 | 6 Υ 13 | 0 Ω 33 | 18°16 | 4°43 | 25°15 | 12°35 | 20° 7 | 26°34 | 2°33 | 15°D31 | 14°21 | 23°21 | 17°34 | S 3 |
| M 4 | 18 48 46 | 12° 2'14 | 19°29 | 2°14 | 19°26 | 5°25 | 25°26 | 12°31 | 20°10 | 26°34 | 2°34 | 15°31 | 14°18 | 23°28 | 17°40 | M 4 |
| T 5 | 18 52 42 | 12°59'26 | 2823 | 3°53 | 20°36 | 6° 7 | 25°37 | 12°27 | 20°14 | 26°34 | 2°36 | 15°32 | 14°15 | 23°34 | 17°47 | T 5 |
| W 6 T 7 | 18 56 39 19 0 35 | 13°56'39 | 14°58 | 5°30 7°4 | 21°46 | 6°49 | 25°48 | 12°22 | 20°17 | 26°34 | 2°38 | 15°34 | 14°11 | 23°41 | 17°54 18° 1 | W 6 T 7 |
| F 8 | 19 0 35 19 4 32 | 14°53'52 15°51'05 | 27°17 9 Ⅲ 24 | 8°37 | 22°56 24° 6 | 7°31 8°12 | 25°59 26°10 | 12°18 12°13 | 20°20 20°24 | 26°34 26°33 | 2°39 2°41 | 15°35 15°36 | 14° 8 14° 5 | 23°48 23°54 | 18° 1 | F 8 |
| S 9 | 19 4 32 | 15 51 05 16°48'19 | 21°22 | 10° 7 | 25°15 | 8°54 | 26°10 | 12 13 12° 9 | 20°27 | 26°33 | 2°43 | 15°R36 | 14° 3 | 23° 34 24° 1 | 18°15 | г о S 9 |
| | | | | | | | | | | | | | | | | l I |
| S 10 M11 | 19 12 25 19 16 21 | 17°45'34 18°42'49 | 3 © 15 15°5 | 11°36 13° 2 | 26°25 27°35 | 9°35 10°17 | 26°33 26°45 | 12° 5 12° 0 | 20°30 20°33 | 26°33 26°32 | 2°44 2°46 | 15°35 15°32 | 13°59 13°55 | 24° 8 24°15 | 18°21 18°28 | S 10 M11 |
| T 12 | 19 10 21 | 18 42 49 19°40'04 | 26°54 | 13°26 | 27 33 28°44 | 10°17 10°58 | 26°56 | 11°56 | 20°37 | 26°32 | 2°48 | 15°27 | 13°52 | 24 13 24°21 | 18°35 | T 12 |
| W13 | 19 24 15 | 20°37'20 | 8 Ω 43 | 15°48 | 29°53 | 11°40 | 20° 8 | 11°51 | 20°40 | 26°32 | 2°49 | 15°21 | 13°49 | 24°28 | 18°42 | W13 |
| T 14 | 19 28 11 | 21°34'35 | 20°36 | 17° 8 | 1 m 3 | 12°21 | 27°19 | 11°47 | 20°43 | 26°31 | 2°51 | 15°15 | 13°46 | 24°35 | 18°49 | T 14 |
| F 15 | 19 32 8 | 22°31'52 | 2 Mp 35 | 18°25 | 2°12 | 13° 2 | 27°31 | 11°43 | 20°46 | 26°31 | 2°53 | 15° 8 | 13°43 | 24°41 | 18°56 | F 15 |
| S 16 | 19 36 4 | 23°29'08 | 14°40 | 19°40 | 3°21 | 13°43 | 27°43 | 11°38 | 20°49 | 26°30 | 2°55 | 15° 3 | 13°40 | 24°48 | 19° 2 | S 16 |
| S 17 | 19 40 1 | 24°26'25 | 26°56 | 20°53 | 4°30 | 14°24 | 27°55 | 11°34 | 20°52 | 26°30 | 2°56 | 14°58 | 13°36 | 24°55 | 19° 9 | S 17 |
| M18 | 19 43 57 | 25°23'42 | 9 ჲ 26 | 22° 3 | 5°39 | 15° 5 | 28° 6 | 11°30 | 20°56 | 26°29 | 2°58 | 14°55 | 13°33 | 25° 1 | 19°16 | M18 |
| T 19 | 19 47 54 | 26°21'00 | 22°12 | 23°11 | 6°48 | 15°46 | 28°18 | 11°26 | 20°59 | 26°28 | 3° 0 | 14°D54 | 13°30 | 25° 8 | 19°23 | T 19 |
| W20 | 19 51 50 | 27°18'18 | 5 M 20 | 24°16 | 7°57 | 16°27 | 28°30 | 11°22 | 21° 2 | 26°28 | 3° 1 | 14°54 | 13°27 | 25°15 | 19°30 | W20 |
| T 21 | 19 55 47 | 28°15'36 | 18°50 | 25°19 | 9° 5 | 17° 8 | 28°42 | 11°17 | 21° 5 | 26°27 | 3° 3 | 14°55 | 13°24 | 25°21 | 19°37 19°43 | T 21 F 22 |
| F 22 S 23 | 19 59 44 20 3 40 | 29°12'55 0 Ω 10'14 | 2 ∡ 747 17°10 | 26°19 27°15 | 10°14 11°22 | 17°48 18°29 | 28°54 29° 6 | 11°13 11° 9 | 21° 8 21°11 | 26°26 26°26 | 3° 5 3° 7 | 14°56 14°R57 | 13°21 13°17 | 25°28 25°35 | 19°43 19°50 | S 23 |
| | | | | | | | | | | - | | | | | | |
| S 24 | 20 7 37 | 1° 7'34 | 1 궁 56 17° 1 | 28° 9 29° 0 | 12°30 13°38 | 19°10 | 29°19 | 11° 5 11° 1 | 21°14 | 26°25 26°24 | 3° 8 | 14°55 14°52 | 13°14 13°11 | 25°41 | 19°57 20° 4 | S 24 |
| M25 T 26 | 20 11 33 20 15 30 | 2° 4'54 3° 2'16 | 1/° 1 2 ≈ 16 | 29° 0 29°47 | 13°38 14°46 | 19°50 20°31 | 29°31 29°43 | 11° 1 10°57 | 21°17 21°19 | 26°24 26°23 | 3°10 3°12 | 14°52 14°47 | 13°11 13° 8 | 25°48 25°55 | 20° 4 20°11 | M25 T 26 |
| W27 | 20 13 30 | 3°59'38 | 17°31 | 0 m)31 | 15°54 | 20°31 | 29°55 | 10°57 | 21°22 | 26°23 | 3°14 | 14°41 | 13° 5 | 25° 33 | 20°17 | W27 |
| T 28 | 20 23 23 | 4°57'00 | 2)(35 | 1°11 | 17° 2 | 21°51 | 0m 8 | 10°50 | 21°25 | 26°22 | 3°15 | 14°33 | 13° 1 | 26° 8 | 20°24 | T 28 |
| F 29 | 20 27 19 | 5°54'24 | 17°19 | 1°48 | 18°10 | 22°32 | 0°20 | 10°46 | 21°28 | 26°21 | 3°17 | 14°26 | 12°58 | 26°15 | 20°31 | F 29 |
| S 30 | 20 31 16 | 6°51'49 | 1 Y 38 | 2°20 | 19°17 | 23°12 | 0°32 | 10°42 | 21°31 | 26°20 | 3°19 | 14°20 | 12°55 | 26°21 | 20°37 | S 30 |
| S 31 | 20 35 13 | 7 Ω 49'15 | 15 Y 27 | 2 Mp 48 | 20 m 25 | 23 II 52 | 0 m 45 | 10 ට 38 | 21耳33 | 26 米 19 | 3 Ω 21 | 14 × 16 | 12 ₹ 52 | 26928 | 209544 | S 31 |

Delta T = 15.99 sec

Greg. Calendar

AUGUST 1695 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | φ | ď | 4 | ħ |)∤(| 并 | Р | N. | Ω | Ç | Ŗ | Day |
|------|----------|------------------|-----------------|----------------|----------------|-----------------|---------------|----------------|-----------------|----------------|---------------|----------------|----------------|-------|--------|------|
| M 1 | 20 39 9 | 8 Ω 46'43 | 28 Y 47 | 3 Mp 12 | 21 m/32 | 24∏32 | 0 m 57 | 10°R35 | 21 II 36 | 26°R18 | 3 Ω 22 | 14°R14 | 12 √ 49 | 26935 | 20951 | M 1 |
| T 2 | 20 43 6 | 9°44'11 | 11840 | 3°31 | 22°39 | 25°12 | 1°10 | 10 ට 31 | 21°39 | 26 ∺ 17 | 3°24 | 14°D13 | 12°46 | 26°41 | 20°57 | T 2 |
| W 3 | 20 47 2 | 10°41'42 | 24°12 | 3°46 | 23°46 | 25°52 | 1°22 | 10°28 | 21°41 | 26°16 | 3°26 | 14 × 14 | 12°42 | 26°48 | 21° 4 | W 3 |
| T 4 | 20 50 59 | 11°39'13 | 6 Ⅱ 25 | 3°56 | 24°53 | 26°32 | 1°35 | 10°24 | 21°44 | 26°15 | 3°27 | 14°15 | 12°39 | 26°55 | 21°11 | T 4 |
| F 5 | 20 54 55 | 12°36'46 | 18°26 | 4°R 0 | 26° 0 | 27°11 | 1°48 | 10°21 | 21°47 | 26°14 | 3°29 | 14°R15 | 12°36 | 27° 2 | 21°17 | F 5 |
| S 6 | 20 58 52 | 13°34'20 | 0919 | 3°59 | 27° 6 | 27°51 | 2° 0 | 10°17 | 21°49 | 26°13 | 3°31 | 14°13 | 12°33 | 27° 8 | 21°24 | S 6 |
| S 7 | 21 248 | 14°31'56 | 12° 8 | 3°53 | 28°13 | 28°31 | 2°13 | 10°14 | 21°52 | 26°12 | 3°33 | 14°10 | 12°30 | 27°15 | 21°30 | S 7 |
| M 8 | 21 6 45 | 15°29'33 | 23°56 | 3°42 | 29°19 | 29°10 | 2°26 | 10°11 | 21°54 | 26°10 | 3°34 | 14° 3 | 12°27 | 27°22 | 21°37 | M 8 |
| T 9 | 21 10 42 | 16°27'11 | 5 Ω 46 | 3°24 | 0 ჲ 25 | 29°50 | 2°38 | 10° 8 | 21°56 | 26° 9 | 3°36 | 13°55 | 12°23 | 27°28 | 21°43 | T 9 |
| W10 | 21 14 38 | 17°24'50 | 17°41 | 3° 2 | 1°31 | 0 ട്ട 29 | 2°51 | 10° 5 | 21°59 | 26° 8 | 3°38 | 13°44 | 12°20 | 27°35 | 21°50 | W10 |
| T 11 | 21 18 35 | 18°22'31 | 29°41 | 2°34 | 2°37 | 1° 8 | 3° 4 | 10° 2 | 22° 1 | 26° 7 | 3°39 | 13°32 | 12°17 | 27°42 | 21°56 | T 11 |
| F 12 | 21 22 31 | 19°20'13 | 11 M)47 | 2° 1 | 3°42 | 1°48 | 3°17 | 9°59 | 22° 3 | 26° 6 | 3°41 | 13°20 | 12°14 | 27°48 | 22° 3 | F 12 |
| S 13 | 21 26 28 | 20°17'56 | 24° 2 | 1°23 | 4°48 | 2°27 | 3°29 | 9°56 | 22° 6 | 26° 4 | 3°43 | 13° 9 | 12°11 | 27°55 | 22° 9 | S 13 |
| S 14 | 21 30 24 | 21°15'40 | 6 ₽ 27 | 0°41 | 5°53 | 3° 6 | 3°42 | 9°53 | 22° 8 | 26° 3 | 3°44 | 13° 0 | 12° 7 | 28° 2 | 22°16 | S 14 |
| M15 | 21 34 21 | 22°13'25 | 19° 3 | 29 Ω 54 | 6°58 | 3°45 | 3°55 | 9°50 | 22°10 | 26° 2 | 3°46 | 12°53 | 12° 4 | 28° 8 | 22°22 | M15 |
| T 16 | 21 38 17 | 23°11'12 | 1 M 52 | 29° 5 | 8° 3 | 4°24 | 4° 8 | 9°48 | 22°12 | 26° 1 | 3°48 | 12°49 | 12° 1 | 28°15 | 22°28 | T 16 |
| W17 | 21 42 14 | 24° 9'00 | 14°58 | 28°14 | 9° 7 | 5° 3 | 4°21 | 9°45 | 22°14 | 25°59 | 3°49 | 12°47 | 11°58 | 28°22 | 22°34 | W17 |
| T 18 | 21 46 11 | 25° 6'49 | 28°23 | 27°21 | 10°12 | 5°41 | 4°34 | 9°43 | 22°16 | 25°58 | 3°51 | 12°D47 | 11°55 | 28°28 | 22°41 | T 18 |
| F 19 | 21 50 7 | 26° 4'39 | 12 × 10 | 26°27 | 11°16 | 6°20 | 4°47 | 9°40 | 22°18 | 25°56 | 3°53 | 12°R47 | 11°52 | 28°35 | 22°47 | F 19 |
| S 20 | 21 54 4 | 27° 2'30 | 26°19 | 25°34 | 12°20 | 6°59 | 5° 0 | 9°38 | 22°20 | 25°55 | 3°54 | 12°46 | 11°48 | 28°42 | 22°53 | S 20 |
| S 21 | 21 58 0 | 28° 0'23 | 10 ට 51 | 24°43 | 13°24 | 7°37 | 5°13 | 9°36 | 22°22 | 25°54 | 3°56 | 12°44 | 11°45 | 28°48 | 22°59 | S 21 |
| M22 | 22 1 57 | 28°58'17 | 25°42 | 23°55 | 14°27 | 8°16 | 5°26 | 9°34 | 22°24 | 25°52 | 3°58 | 12°39 | 11°42 | 28°55 | 23° 5 | M22 |
| T 23 | 22 5 53 | 29°56'12 | 10≈45 | 23°11 | 15°31 | 8°54 | 5°39 | 9°32 | 22°26 | 25°51 | 3°59 | 12°32 | 11°39 | 29° 2 | 23°11 | T 23 |
| W24 | 22 9 50 | 0 m 54'09 | 25°53 | 22°32 | 16°34 | 9°33 | 5°52 | 9°30 | 22°28 | 25°49 | 4° 1 | 12°22 | 11°36 | 29° 9 | 23°17 | W24 |
| T 25 | 22 13 46 | 1°52'07 | 10 ∺ 54 | 21°59 | 17°36 | 10°11 | 6° 5 | 9°28 | 22°30 | 25°48 | 4° 2 | 12°11 | 11°32 | 29°15 | 23°23 | T 25 |
| F 26 | 22 17 43 | 2°50'07 | 25°39 | 21°32 | 18°39 | 10°49 | 6°18 | 9°26 | 22°31 | 25°46 | 4° 4 | 12° 0 | 11°29 | 29°22 | 23°29 | F 26 |
| S 27 | 22 21 40 | 3°48'08 | 10 Y 1 | 21°13 | 19°41 | 11°27 | 6°31 | 9°25 | 22°33 | 25°45 | 4° 5 | 11°51 | 11°26 | 29°29 | 23°35 | S 27 |
| S 28 | 22 25 36 | 4°46'12 | 23°55 | 21° 1 | 20°43 | 12° 5 | 6°44 | 9°23 | 22°35 | 25°43 | 4° 7 | 11°44 | 11°23 | 29°35 | 23°41 | S 28 |
| M29 | 22 29 33 | 5°44'17 | 7 8 20 | 20°D58 | 21°45 | 12°43 | 6°57 | 9°22 | 22°36 | 25°42 | 4° 8 | 11°39 | 11°20 | 29°42 | 23°46 | M29 |
| T 30 | 22 33 29 | 6°42'24 | 20°17 | 21° 3 | 22°46 | 13°21 | 7°10 | 9°20 | 22°38 | 25°40 | 4°10 | 11°37 | 11°17 | 29°49 | 23°52 | T 30 |
| W31 | 22 37 26 | 7 m 40'34 | 2 Ⅱ 50 | 21 Ω 17 | 23 ≏ 48 | 13958 | 7 m 23 | 9 궁 19 | 22 ∏ 39 | 25 米 39 | 4 Ω 11 | 11 × 36 | 11 × 13 | 29955 | 239558 | W31 |

Delta T = 15.96 sec

SEPTEMBER 1695 GC 00:00 UT

| Day | Sid.t | 0 | D | β | φ | ð | 4 | ħ |)∤(| 并 | Р | ů | v | ţ | ę k | Day |
|------|----------|------------------|-----------------|----------------|-----------------|--------------|----------------|---------------|-----------------|----------------|---------------|----------------|----------------|---------------|--------|------|
| T 1 | 22 41 22 | 8 m/ 38'45 | 15Ⅱ 4 | 21 Ω 40 | 24 ♀ 48 | 14936 | 7 m 36 | 9°R18 | 22 II 41 | 25°R37 | 4 Ω 13 | 11°R36 | 11 × 10 | 0 Ω 2 | 249 3 | T 1 |
| F 2 | 22 45 19 | 9°36'59 | 27° 4 | 22°11 | 25°49 | 15°14 | 7°49 | 9 ට 16 | 22°42 | 25 米 36 | 4°14 | 11 ~ 35 | 11° 7 | 0° 9 | 24° 9 | F 2 |
| S 3 | 22 49 15 | 10°35'14 | 8956 | 22°51 | 26°49 | 15°51 | 8° 2 | 9°15 | 22°43 | 25°34 | 4°16 | 11°33 | 11° 4 | 0°15 | 24°15 | S 3 |
| S 4 | 22 53 12 | 11°33'31 | 20°45 | 23°38 | 27°49 | 16°29 | 8°15 | 9°14 | 22°45 | 25°32 | 4°17 | 11°29 | 11° 1 | 0°22 | 24°20 | S 4 |
| M 5 | 22 57 9 | 12°31'51 | 2 Ω 34 | 24°34 | 28°48 | 17° 6 | 8°28 | 9°14 | 22°46 | 25°31 | 4°19 | 11°22 | 10°58 | 0°29 | 24°25 | M 5 |
| T 6 | 23 1 5 | 13°30'12 | 14°28 | 25°36 | 29°48 | 17°43 | 8°41 | 9°13 | 22°47 | 25°29 | 4°20 | 11°12 | 10°54 | 0°36 | 24°31 | T 6 |
| W 7 | 23 5 2 | 14°28'35 | 26°29 | 26°46 | 0 M .46 | 18°20 | 8°54 | 9°12 | 22°48 | 25°28 | 4°22 | 10°59 | 10°51 | 0°42 | 24°36 | W 7 |
| T 8 | 23 8 58 | 15°27'01 | 8 m 38 | 28° 2 | 1°45 | 18°57 | 9° 7 | 9°12 | 22°49 | 25°26 | 4°23 | 10°46 | 10°48 | 0°49 | 24°41 | T 8 |
| F 9 | 23 12 55 | 16°25'28 | 20°57 | 29°23 | 2°43 | 19°34 | 9°20 | 9°11 | 22°50 | 25°24 | 4°24 | 10°32 | 10°45 | 0°56 | 24°47 | F 9 |
| S 10 | 23 16 51 | 17°23'57 | 3 ≏ 26 | 0 m 50 | 3°40 | 20°11 | 9°33 | 9°11 | 22°51 | 25°23 | 4°26 | 10°19 | 10°42 | 1° 2 | 24°52 | S 10 |
| S 11 | 23 20 48 | 18°22'27 | 16° 6 | 2°21 | 4°37 | 20°48 | 9°45 | 9°11 | 22°52 | 25°21 | 4°27 | 10° 8 | 10°38 | 1° 9 | 24°57 | S 11 |
| M12 | 23 24 44 | 19°21'00 | 28°57 | 3°57 | 5°34 | 21°25 | 9°58 | 9°10 | 22°53 | 25°19 | 4°28 | 10° 0 | 10°35 | 1°16 | 25° 2 | M12 |
| T 13 | 23 28 41 | 20°19'34 | 11 M 59 | 5°35 | 6°30 | 22° 1 | 10°11 | 9°D10 | 22°54 | 25°18 | 4°30 | 9°55 | 10°32 | 1°22 | 25° 7 | T 13 |
| W14 | 23 32 37 | 21°18'10 | 25°13 | 7°17 | 7°26 | 22°38 | 10°24 | 9°10 | 22°55 | 25°16 | 4°31 | 9°52 | 10°29 | 1°29 | 25°12 | W14 |
| T 15 | 23 36 34 | 22°16'48 | 8 ∡ 41 | 9° 1 | 8°22 | 23°14 | 10°37 | 9°11 | 22°55 | 25°14 | 4°32 | 9°D51 | 10°26 | 1°36 | 25°16 | T 15 |
| F 16 | 23 40 31 | 23°15'28 | 2 <u>2</u> °25 | 10°47 | 9°16 | 23°51 | 10°50 | 9°11 | 22°56 | 25°13 | 4°33 | 9°R52 | 10°23 | 1°42 | 25°21 | F 16 |
| S 17 | 23 44 27 | 24°14'09 | 6 පි 25 | 12°34 | 10°11 | 24°27 | 11° 3 | 9°11 | 22°57 | 25°11 | 4°35 | 9°51 | 10°19 | 1°49 | 25°26 | S 17 |
| S 18 | 23 48 24 | 25°12'52 | 20°41 | 14°23 | 11° 4 | 25° 3 | 11°16 | 9°12 | 22°57 | 25° 9 | 4°36 | 9°49 | 10°16 | 1°56 | 25°30 | S 18 |
| M19 | 23 52 20 | 26°11'36 | 5≈12 | 16°12 | 11°57 | 25°39 | 11°28 | 9°12 | 22°58 | 25° 8 | 4°37 | 9°44 | 10°13 | 2° 2 | 25°35 | M19 |
| T 20 | 23 56 17 | 27°10'22 | 19°53 | 18° 2 | 12°50 | 26°15 | 11°41 | 9°13 | 22°58 | 25° 6 | 4°38 | 9°37 | 10°10 | 2° 9 | 25°40 | T 20 |
| W21 | 0 0 13 | 28° 9'10 | 4) (39 | 19°52 | 13°42 | 26°51 | 11°54 | 9°13 | 22°59 | 25° 4 | 4°39 | 9°28 | 10° 7 | 2°16 | 25°44 | W21 |
| T 22 | 0 4 10 | 29° 8'00 | 19°22 | 21°42 | 14°33 | 27°26 | 12° 7 | 9°14 | 22°59 | 25° 3 | 4°41 | 9°17 | 10° 4 | 2°23 | 25°48 | T 22 |
| F 23 | 0 8 6 | 0 ჲ 6'51 | 3 Ƴ 54 | 23°32 | 15°24 | 28° 2 | 12°19 | 9°15 | 22°59 | 25° 1 | 4°42 | 9° 7 | 10° 0 | 2°29 | 25°53 | F 23 |
| S 24 | 0 12 3 | 1° 5'45 | 18° 7 | 25°22 | 16°13 | 28°37 | 12°32 | 9°16 | 23° 0 | 24°59 | 4°43 | 8°57 | 9°57 | 2°36 | 25°57 | S 24 |
| S 25 | 0 16 0 | 2° 4'41 | 1856 | 27°11 | 17° 3 | 29°13 | 12°45 | 9°17 | 23° 0 | 24°58 | 4°44 | 8°50 | 9°54 | 2°43 | 26° 1 | S 25 |
| M26 | 0 19 56 | 3° 3'39 | 15°20 | 29° 0 | 17°51 | 29°48 | 12°57 | 9°19 | 23° 0 | 24°56 | 4°45 | 8°45 | 9°51 | 2°49 | 26° 5 | M26 |
| T 27 | 0 23 53 | 4° 2'39 | 28°19 | 0 ჲ 48 | 18°38 | $0\Omega 23$ | 13°10 | 9°20 | 23° 0 | 24°54 | 4°46 | 8°43 | 9°48 | 2°56 | 26° 9 | T 27 |
| W28 | 0 27 49 | 5° 1'42 | 10 Ⅱ 54 | 2°36 | 19°25 | 0°58 | 13°22 | 9°21 | 23°R 0 | 24°53 | 4°47 | 8°D42 | 9°44 | 3° 3 | 26°13 | W28 |
| T 29 | 0 31 46 | 6° 0'47 | 23°10 | 4°23 | 20°11 | 1°33 | 13°35 | 9°23 | 23° 0 | 24°51 | 4°48 | 8°43 | 9°41 | 3° 9 | 26°17 | T 29 |
| F 30 | 0 35 42 | 6 ≏ 59'54 | 59913 | 6 ₽ 9 | 20 M .56 | 2 N 8 | 13 M 47 | 9 ට 24 | 23耳 0 | 24 米 50 | 4 Ω 49 | 8°R44 | 9 . ₹38 | 3 Ω 16 | 26920 | F 30 |

Delta T = 15.92 sec

Greg. Calendar

| OCTOBER 1695 GC | 00:00 UT |
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| Day | Sid.t | 0 | 2) | φ | Q | o ⁷ | 4 | ħ |)∤(| ¥ | 5 | R | Ω | ţ | δ | Day |
|--------------|------------------|----------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|---------------|----------------|----------------|---------------|----------------|--------------|
| S 1 | 0 39 39 | 7 ≙ 59'04 | 1795 6 | 7 ≙ 54 | 21 M 40 | 2 Ω 43 | 14M) 0 | 9 ප 26 | 23°R 0 | 24°R48 | 4 Ω 50 | 8°R43 | 9 × 735 | 3 Ω 23 | 26924 | S 1 |
| S 2 | 0 43 35 | 8°58'16 | 28°56 | 9°39 | 22°24 | 3°18 | 14°12 | 9°28 | 23 II 0 | 24) (46 | 4°51 | 8 ∡ 741 | 9°32 | 3°30 | 26°28 | S 2 |
| M 3 | 0 47 32 | 9°57'30 | $10\Omega 48$ | 11°22 | 23° 6 | 3°52 | 14°25 | 9°30 | 23° 0 | 24°45 | 4°52 | 8°36 | 9°29 | 3°36 | 26°31 | M 3 |
| T 4 | 0 51 29 | 10°56'46 | 22°45 | 13° 6 | 23°47 | 4°27 | 14°37 | 9°32 | 22°59 | 24°43 | 4°52 | 8°29 | 9°25 | 3°43 | 26°35 | T 4 |
| W 5 | 0 55 25 | 11°56'05 | 4 Mp 52 | 14°48 | 24°27 | 5° 1 | 14°49 | 9°34 | 22°59 | 24°42 | 4°53 | 8°21 | 9°22 | 3°50 | 26°38 | W 5 |
| T 6 | 0 59 22 | 12°55'26 | 17°10 | 16°29 | 25° 6 | 5°35 | 15° 1 | 9°36 | 22°59 | 24°40 | 4°54 | 8°11 | 9°19 | 3°56 | 26°41 | T 6 |
| F 7 | 1 3 18 | 13°54'49 | 29°42 | 18°10 | 25°44 | 6° 9 | 15°14 | 9°38 | 22°58 | 24°38 | 4°55 | 8° 0 | 9°16 | 4° 3 | 26°44 | F 7 |
| S 8 | 1 7 15 | 14°54'14 | 12 ≏ 28 | 19°50 | 26°21 | 6°43 | 15°26 | 9°41 | 22°58 | 24°37 | 4°56 | 7°51 | 9°13 | 4°10 | 26°47 | S 8 |
| S 9 | 1 11 11 | 15°53'41 | 25°27 | 21°30 | 26°56 | 7°17 | 15°38 | 9°43 | 22°57 | 24°35 | 4°56 | 7°42 | 9° 9 | 4°16 | 26°50 | S 9 |
| M10 | 1 15 8 | 16°53'10 | 8 M .39 | 23° 8 | 27°31 | 7°50 | 15°50 | 9°46 | 22°57 | 24°34 | 4°57 | 7°37 | 9° 6 | 4°23 | 26°53 | M10 |
| T 11 | 1 19 4 | 17°52'41 | 22° 3 | 24°46 | 28° 3 | 8°24 | 16° 2 | 9°48 | 22°56 | 24°32 | 4°58 | 7°33 | 9° 3 | 4°30 | 26°56 | T 11 |
| W12 | 1 23 1 | 18°52'15 | 5 ₹ 37 | 26°23 | 28°35 | 8°57 | 16°14 | 9°51 | 22°55 | 24°31 | 4°58 | 7°D32 | 9° 0 | 4°36 | 26°59 | W12 |
| T 13 | 1 26 57 | 19°51'50 | 19°20 | 28° 0 | 29° 5 | 9°30 | 16°26 | 9°54 | 22°55 | 24°29 | 4°59 | 7°32 | 8°57 | 4°43 | 27° 2 | T 13 |
| F 14 | 1 30 54 | 20°51'26 | 3 군 12 | 29°36 | 29°33 | 10° 4 | 16°38 | 9°57 | 22°54 | 24°28 | 5° 0 | 7°34 | 8°54 | 4°50 | 27° 4 | F 14 |
| S 15 | 1 34 51 | 21°51'05 | 17°13 | 1 M L11 | 29°59 | 10°36 | 16°49 | 10° 0 | 22°53 | 24°27 | 5° 0 | 7°R35 | 8°50 | 4°57 | 27° 7 | S 15 |
| S 16 | 1 38 47 | 22°50'45 | 1≈22 | 2°46 | 0 ₹ 25 | 11° 9 | 17° 1 | 10° 3 | 22°52 | 24°25 | 5° 1 | 7°34 | 8°47 | 5° 3 | 27° 9 | S 16 |
| M17 | 1 42 44 | 23°50'27 | 15°37 | 4°20 | 0°48 | 11°42 | 17°13 | 10° 6 | 22°51 | 24°24 | 5° 1 | 7°32 | 8°44 | 5°10 | 27°11 | M17 |
| T 18 | 1 46 40 | 24°50'10 | 29°56 | 5°53 | 1°10 | 12°14 | 17°24 | 10° 9 | 22°50 | 24°22 | 5° 2 | 7°28 | 8°41 | 5°17 | 27°13 | T 18 |
| W19 | 1 50 37 | 25°49'55 | 14) 15 | 7°26 | 1°30 | 12°47 | 17°36 | 10°13 | 22°49 | 24°21 | 5° 2 | 7°23 | 8°38 | 5°23 | 27°16 | W19 |
| T 20 | 1 54 33 | 26°49'42 | 28°30 | 8°59 | 1°48 | 13°19 | 17°47 | 10°16 | 22°48 | 24°20 | 5° 3 | 7°16 | 8°35 | 5°30 | 27°18 | T 20 |
| F 21 S 22 | 1 58 30 | 27°49'31 28°49'21 | 12 Υ 35 26°27 | 10°31 12° 2 | 2° 4 2°17 | 13°51 14°23 | 17°58 18°10 | 10°20 10°23 | 22°47 22°46 | 24°18 24°17 | 5° 3 5° 4 | 7°10 7°4 | 8°31 8°28 | 5°37 5°43 | 27°19 27°21 | F 21 S 22 |
| | 2 2 26 | | | | | | | | | - | | | | | | |
| S 23 | 2 6 23 | 29°49'14 | 108 0 | 13°33 | 2°29 | 14°55 | 18°21 | 10°27 | 22°45 | 24°16 | 5° 4 | 7° 0 | 8°25 | 5°50 | 27°23 | S 23 |
| M24 | 2 10 20 | 0M49'08 | 23°14 | 15° 3 | 2°39 | 15°26 | 18°32 | 10°31 | 22°43 | 24°14 | 5° 4 | 6°57 | 8°22 | 5°57 | 27°25 | M24 |
| T 25 | 2 14 16 | 1°49'05 | 6 I 7 | 16°33 | 2°46 | 15°58 | 18°43 | 10°35 | 22°42 | 24°13 | 5° 5 | 6°D56 | 8°19 | 6° 4 | 27°26 | T 25 |
| W26 | 2 18 13 | 2°49'04 | 18°41 | 18° 2 | 2°51 | 16°29 | 18°54 | 10°38 | 22°41 | 24°12 | 5° 5 | 6°57 | 8°15 | 6°10 | 27°28 | W26 |
| T 27 | 2 22 9 | 3°49'05 | 0 9 58 | 19°30 20°59 | 2°54 | 17° 0 | 19° 5 | 10°42 | 22°39 22°38 | 24°11 | 5° 5 5° 6 | 6°58 7° 0 | 8°12 8° 9 | 6°17 | 27°29 27°30 | T 27 F 28 |
| F 28 S 29 | 2 26 6 2 30 2 | 4°49'08 5°49'13 | 13° 2 24°57 | 20°59 22°26 | 2°R54 2°52 | 17°31 18° 2 | 19°16 19°27 | 10°47 10°51 | 22°38 22°36 | 24°10 24° 8 | 5° 6 5° 6 | 7° 0 | 8° 9 | 6°24 6°30 | 27°30 27°31 | F 28 S 29 |
| | | | | _ | _ | - | | | | | | . – | | | | |
| S 30 | 2 33 59 | 6°49'20 | $6\Omega 49$ | 23°53 | 2°48 | 18°33 | 19°38 | 1 <u>0</u> °55 | 22°35 | 24° 7 | 5° 6 | 7°R 2 | 8° 3 | 6°37 | 27°32 | S 30 |
| M31 | 2 37 55 | 7 ™ 49'29 | 18 Ω 41 | 25 M 19 | 2 √ 41 | 19 Ω 3 | 19 M 48 | 10 궁 59 | 22 II 33 | 24) 6 | 5 N 6 | 7 √ 1 | 8 才 0 | 6Ω44 | 27933 | M31 |

Delta T = 15.89 sec

NOVEMBER 1695 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)Å(| ¥ | В | IJ | v | ţ | , k | Day |
|------|---------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|---------------|---------------|----------------|---------------|--------|------|
| T 1 | 2 41 52 | 8 M 49'40 | 0 m /40 | 26M45 | 2°R32 | 19 Ω 33 | 19 m 59 | 11る 4 | 22°R32 | 24°R 5 | 5 Ω 6 | 6°R59 | 7 .₹ 56 | 6 Ω 50 | 27934 | T 1 |
| W 2 | 2 45 49 | 9°49'53 | 12°49 | 28°10 | 2 ~ 21 | 20° 3 | 20° 9 | 11°8 | 22 Ⅲ 30 | 24) 4 | 5° 6 | 6 ₹ 56 | 7°53 | 6°57 | 27°35 | W 2 |
| T 3 | 2 49 45 | 10°50'09 | 25°12 | 29°35 | 2° 7 | 20°33 | 20°20 | 11°13 | 22°28 | 24° 3 | 5° 7 | 6°52 | 7°50 | 7° 4 | 27°35 | T 3 |
| F 4 | 2 53 42 | 11°50'26 | 7 ≙ 51 | 0 ∡ 758 | 1°50 | 21° 3 | 20°30 | 11°17 | 22°26 | 24° 2 | 5° 7 | 6°48 | 7°47 | 7°11 | 27°36 | F 4 |
| S 5 | 2 57 38 | 12°50'45 | 20°50 | 2°21 | 1°32 | 21°32 | 20°40 | 11°22 | 22°25 | 24° 1 | 5° 7 | 6°44 | 7°44 | 7°17 | 27°36 | S 5 |
| S 6 | 3 1 35 | 13°51'06 | 4 m 7 | 3°42 | 1°11 | 22° 2 | 20°50 | 11°27 | 22°23 | 24° 0 | 5°R 7 | 6°41 | 7°41 | 7°24 | 27°37 | S 6 |
| M 7 | 3 5 31 | 14°51'29 | 17°41 | 5° 3 | 0°47 | 22°31 | 21° 0 | 11°32 | 22°21 | 23°59 | 5° 7 | 6°39 | 7°37 | 7°31 | 27°37 | M 7 |
| T 8 | 3 9 28 | 15°51'54 | 1 ∡ 730 | 6°23 | 0°22 | 23° 0 | 21°10 | 11°37 | 22°19 | 23°58 | 5° 7 | 6°D38 | 7°34 | 7°37 | 27°37 | T 8 |
| W 9 | 3 13 24 | 16°52'20 | 15°31 | 7°41 | 29M55 | 23°28 | 21°20 | 11°42 | 22°17 | 23°58 | 5° 6 | 6°38 | 7°31 | 7°44 | 27°R37 | W 9 |
| T 10 | 3 17 21 | 17°52'48 | 29°41 | 8°58 | 29°26 | 23°57 | 21°29 | 11°47 | 22°15 | 23°57 | 5° 6 | 6°39 | 7°28 | 7°51 | 27°37 | T 10 |
| F 11 | 3 21 18 | 18°53'17 | 13 る 55 | 10°13 | 28°55 | 24°25 | 21°39 | 11°52 | 22°13 | 23°56 | 5° 6 | 6°40 | 7°25 | 7°58 | 27°37 | F 11 |
| S 12 | 3 25 14 | 19°53'47 | 28°11 | 11°27 | 28°23 | 24°53 | 21°49 | 11°57 | 22°11 | 23°55 | 5° 6 | 6°41 | 7°21 | 8° 4 | 27°37 | S 12 |
| S 13 | 3 29 11 | 20°54'19 | 12≈25 | 12°39 | 27°50 | 25°20 | 21°58 | 12° 2 | 22° 9 | 23°54 | 5° 6 | 6°42 | 7°18 | 8°11 | 27°36 | S 13 |
| M14 | 3 33 7 | 21°54'51 | 26°35 | 13°48 | 27°15 | 25°48 | 22° 7 | 12° 7 | 22° 7 | 23°54 | 5° 6 | 6°R42 | 7°15 | 8°18 | 27°36 | M14 |
| T 15 | 3 37 4 | 22°55'25 | 10) (40 | 14°55 | 26°40 | 26°15 | 22°16 | 12°13 | 22° 5 | 23°53 | 5° 5 | 6°42 | 7°12 | 8°24 | 27°35 | T 15 |
| W16 | 3 41 0 | 23°56'01 | 24°37 | 15°58 | 26° 4 | 26°42 | 22°25 | 12°18 | 22° 3 | 23°52 | 5° 5 | 6°40 | 7° 9 | 8°31 | 27°35 | W16 |
| T 17 | 3 44 57 | 24°56'37 | 8 Υ 24 | 16°59 | 25°27 | 27° 9 | 22°34 | 12°24 | 22° 1 | 23°52 | 5° 5 | 6°39 | 7° 6 | 8°38 | 27°34 | T 17 |
| F 18 | 3 48 53 | 25°57'15 | 22° 1 | 17°56 | 24°51 | 27°35 | 22°43 | 12°29 | 21°58 | 23°51 | 5° 5 | 6°37 | 7° 2 | 8°44 | 27°33 | F 18 |
| S 19 | 3 52 50 | 26°57'53 | 5 8 25 | 18°48 | 24°15 | 28° 2 | 22°52 | 12°35 | 21°56 | 23°51 | 5° 4 | 6°36 | 6°59 | 8°51 | 27°32 | S 19 |
| S 20 | 3 56 47 | 27°58'34 | 18°35 | 19°36 | 23°39 | 28°28 | 23° 0 | 12°41 | 21°54 | 23°50 | 5° 4 | 6°35 | 6°56 | 8°58 | 27°31 | S 20 |
| M21 | 4 0 43 | 28°59'15 | 1∏30 | 20°18 | 23° 3 | 28°53 | 23° 9 | 12°46 | 21°52 | 23°50 | 5° 3 | 6°D35 | 6°53 | 9° 5 | 27°30 | M21 |
| T 22 | 4 4 40 | 29°59'58 | 14°11 | 20°54 | 22°29 | 29°19 | 23°17 | 12°52 | 21°49 | 23°49 | 5° 3 | 6°35 | 6°50 | 9°11 | 27°28 | T 22 |
| W23 | 4 8 36 | 1 % 0'43 | 26°37 | 21°23 | 21°55 | 29°44 | 23°25 | 12°58 | 21°47 | 23°49 | 5° 3 | 6°35 | 6°46 | 9°18 | 27°27 | W23 |
| T 24 | 4 12 33 | 2° 1'28 | 8950 | 21°44 | 21°23 | 0 m) 9 | 23°34 | 13° 4 | 21°45 | 23°48 | 5° 2 | 6°36 | 6°43 | 9°25 | 27°26 | T 24 |
| F 25 | 4 16 29 | 3° 2'15 | 20°53 | 21°57 | 20°53 | 0°33 | 23°42 | 13°10 | 21°42 | 23°48 | 5° 2 | 6°36 | 6°40 | 9°31 | 27°24 | F 25 |
| S 26 | 4 20 26 | 4° 3'04 | 2 Ω 48 | 22°R 0 | 20°24 | 0°58 | 23°49 | 13°16 | 21°40 | 23°48 | 5° 1 | 6°37 | 6°37 | 9°38 | 27°22 | S 26 |
| S 27 | 4 24 22 | 5° 3'54 | 14°39 | 21°53 | 19°57 | 1°22 | 23°57 | 13°22 | 21°37 | 23°47 | 5° 0 | 6°37 | 6°34 | 9°45 | 27°21 | S 27 |
| M28 | 4 28 19 | 6° 4'45 | 26°31 | 21°36 | 19°33 | 1°45 | 24° 5 | 13°28 | 21°35 | 23°47 | 5° 0 | 6°37 | 6°31 | 9°52 | 27°19 | M28 |
| T 29 | 4 32 16 | 7° 5'38 | 8 m 28 | 21° 8 | 19°10 | 2° 9 | 24°12 | 1 <u>3</u> °34 | 21°33 | 23°47 | 4°59 | 6°37 | 6°27 | 9°58 | 27°17 | T 29 |
| W30 | 4 36 12 | 8 ∡ 6'32 | 20 m 35 | 20 ∡ 28 | 18 M 50 | 2 Mp 32 | 24 Mp 19 | 13 る 40 | 21 II 30 | 23) 47 | 4 Ω 59 | 6 ₮ 37 | 6 ₹ 24 | 10 0 5 | 279915 | W30 |

Delta T = 15.85 sec

Greg. Calendar

| DECEMBER 1695 GC | 00:00 UT |
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| DECEMBER 1033 OC | 00.00 01 |

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)Å(| 并 | Р | U | ಭ | Ç | ę, | Day |
|------|---------|-------------------|----------------|-----------------|-----------------|----------------|----------------|----------------|-----------------|------------------|---------------|---------------|---------------|----------------|--------|------|
| T 1 | 4 40 9 | 9 ∡¹ 7'27 | 2 ≙ 57 | 19°R37 | 18°R32 | 2 Mp 55 | 24 Mp 27 | 13 る 46 | 21°R28 | 23°R47 | 4°R58 | 6 ₹ 37 | 6 ₹ 21 | 10Ω12 | 27°R13 | T 1 |
| F 2 | 4 44 5 | 10° 8'24 | 15°37 | 18 ∡ 37 | 18 M .16 | 3°17 | 24°34 | 13°53 | 21 II 25 | 23) (46 | 4Ω 57 | 6°37 | 6°18 | 10°18 | 279511 | F 2 |
| S 3 | 4 48 2 | 11° 9'21 | 28°38 | 17°27 | 18° 3 | 3°39 | 24°41 | 13°59 | 21°23 | 23°46 | 4°57 | 6°38 | 6°15 | 10°25 | 27° 8 | S 3 |
| S 4 | 4 51 58 | 12°10'21 | 12 M 3 | 16°11 | 17°52 | 4° 1 | 24°47 | 14° 5 | 21°20 | 23°46 | 4°56 | 6°38 | 6°12 | 10°32 | 27° 6 | S 4 |
| M 5 | 4 55 55 | 13°11'21 | 25°52 | 14°50 | 17°44 | 4°22 | 24°54 | 14°12 | 21°18 | 23°D46 | 4°55 | 6°39 | 6° 8 | 10°39 | 27° 3 | M 5 |
| T 6 | 4 59 51 | 14°12'22 | 10 × 2 | 13°27 | 17°38 | 4°43 | 25° 0 | 14°18 | 21°15 | 23°46 | 4°54 | 6°R39 | 6° 5 | 10°45 | 27° 1 | T 6 |
| W 7 | 5 3 48 | 15°13'24 | 24°29 | 12° 5 | 17°35 | 5° 3 | 25° 7 | 14°25 | 21°12 | 23°46 | 4°54 | 6°38 | 6° 2 | 10°52 | 26°58 | W 7 |
| T 8 | 5 7 45 | 16°14'27 | 9る8 | 10°46 | 17°D34 | 5°23 | 25°13 | 14°31 | 21°10 | 23°46 | 4°53 | 6°38 | 5°59 | 10°59 | 26°56 | T 8 |
| F 9 | 5 11 41 | 17°15'31 | 23°52 | 9°34 | 17°36 | 5°43 | 25°19 | 14°38 | 21° 7 | 23°47 | 4°52 | 6°36 | 5°56 | 11° 5 | 26°53 | F 9 |
| S 10 | 5 15 38 | 18°16'35 | 8 ≈ 33 | 8°30 | 17°40 | 6° 3 | 25°25 | 14°44 | 21° 5 | 23°47 | 4°51 | 6°35 | 5°52 | 11°12 | 26°50 | S 10 |
| S 11 | 5 19 34 | 19°17'39 | 23° 6 | 7°35 | 17°46 | 6°21 | 25°30 | 14°51 | 21° 2 | 23°47 | 4°50 | 6°34 | 5°49 | 11°19 | 26°47 | S 11 |
| M12 | 5 23 31 | 20°18'44 | 7 ∺ 26 | 6°51 | 17°55 | 6°40 | 25°36 | 14°57 | 21° 0 | 23°47 | 4°49 | 6°33 | 5°46 | 11°25 | 26°44 | M12 |
| T 13 | 5 27 27 | 21°19'49 | 21°30 | 6°18 | 18° 6 | 6°58 | 25°41 | 15° 4 | 20°57 | 23°47 | 4°48 | 6°D32 | 5°43 | 11°32 | 26°41 | T 13 |
| W14 | 5 31 24 | 22°20'55 | 5 Υ 17 | 5°56 | 18°19 | 7°16 | 25°46 | 15°11 | 20°54 | 23°48 | 4°48 | 6°33 | 5°40 | 11°39 | 26°38 | W14 |
| T 15 | 5 35 20 | 23°22'00 | 18°47 | 5°45 | 18°34 | 7°33 | 25°51 | 15°18 | 20°52 | 23°48 | 4°47 | 6°34 | 5°37 | 11°46 | 26°34 | T 15 |
| F 16 | 5 39 17 | 24°23'06 | 2 8 1 | 5°D44 | 18°51 | 7°50 | 25°56 | 15°24 | 20°49 | 23°48 | 4°46 | 6°35 | 5°33 | 11°52 | 26°31 | F 16 |
| S 17 | 5 43 14 | 25°24'13 | 15° 1 | 5°52 | 19°11 | 8° 6 | 26° 1 | 15°31 | 20°47 | 23°49 | 4°45 | 6°37 | 5°30 | 11°59 | 26°28 | S 17 |
| S 18 | 5 47 10 | 26°25'19 | 27°47 | 6° 9 | 19°32 | 8°22 | 26° 6 | 15°38 | 20°44 | 23°49 | 4°44 | 6°38 | 5°27 | 12° 6 | 26°24 | S 18 |
| M19 | 5 51 7 | 27°26'26 | 10Ⅱ21 | 6°34 | 19°55 | 8°37 | 26°10 | 15°45 | 20°42 | 23°50 | 4°43 | 6°R38 | 5°24 | 12°12 | 26°21 | M19 |
| T 20 | 5 55 3 | 28°27'34 | 22°45 | 7° 7 | 20°20 | 8°52 | 26°14 | 15°52 | 20°39 | 23°50 | 4°41 | 6°37 | 5°21 | 12°19 | 26°17 | T 20 |
| W21 | 5 59 0 | 29°28'41 | 4959 | 7°45 | 20°47 | 9° 6 | 26°18 | 15°58 | 20°37 | 23°51 | 4°40 | 6°35 | 5°18 | 12°26 | 26°13 | W21 |
| T 22 | 6 2 56 | 0 궁 29'49 | 17° 5 | 8°30 | 21°15 | 9°20 | 26°22 | 16° 5 | 20°34 | 23°51 | 4°39 | 6°31 | 5°14 | 12°33 | 26°10 | T 22 |
| F 23 | 6 6 53 | 1°30'57 | 29° 3 | 9°19 | 21°45 | 9°33 | 26°26 | 16°12 | 20°32 | 23°52 | 4°38 | 6°27 | 5°11 | 12°39 | 26° 6 | F 23 |
| S 24 | 6 10 50 | 2°32'06 | 10 Ω 57 | 10°13 | 22°17 | 9°46 | 26°29 | 16°19 | 20°29 | 23°53 | 4°37 | 6°22 | 5° 8 | 12°46 | 26° 2 | S 24 |
| S 25 | 6 14 46 | 3°33'15 | 22°48 | 11°11 | 22°50 | 9°58 | 26°33 | 16°26 | 20°27 | 23°53 | 4°36 | 6°18 | 5° 5 | 12°53 | 25°58 | S 25 |
| M26 | 6 18 43 | 4°34'24 | 4 Mp 40 | 12°13 | 23°24 | 10°10 | 26°36 | 16°33 | 20°24 | 23°54 | 4°35 | 6°14 | 5° 2 | 12°59 | 25°54 | M26 |
| T 27 | 6 22 39 | 5°35'34 | 16°36 | 13°17 | 24° 0 | 10°21 | 26°39 | 16°40 | 20°22 | 23°55 | 4°34 | 6°11 | 4°58 | 13° 6 | 25°50 | T 27 |
| W28 | 6 26 36 | 6°36'43 | 28°40 | 14°25 | 24°38 | 10°31 | 26°42 | 16°47 | 20°19 | 23°56 | 4°32 | 6° 9 | 4°55 | 13°13 | 25°46 | W28 |
| T 29 | 6 30 32 | 7°37'54 | 10₽56 | 15°35 | 25°16 | 10°41 | 26°44 | 16°54 | 20°17 | 23°56 | 4°31 | 6°D 9 | 4°52 | 13°20 | 25°42 | T 29 |
| F 30 | 6 34 29 | 8°39'04 | 23°30 | 16°47 | 25°56 | 10°50 | 26°47 | 17° 1 | 20°14 | 23°57 | 4°30 | 6° 9 | 4°49 | 13°26 | 25°38 | F 30 |
| S 31 | 6 38 25 | 9 ප් 40'15 | 6M26 | 18 × 7 1 | 26MJ37 | 10 m 59 | 26 m 49 | 17 る 8 | 20 I I2 | 23 米 58 | 4 Ω 29 | 6 √ 11 | 4 ₹ 46 | 13 Ω 33 | 25934 | S 31 |

Delta T = 15.82 sec

JANUARY 1696 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | P | ♂ | 4 | ħ |)Å(| ¥ | Р | n | Ω | Ç | ķ | Day |
|------|---------|-------------------|-----------------|----------------|-----------------------------|---------------|----------------|----------------|----------------|------------------|---------------|---------------|----------------|----------------|--------|------|
| S 1 | 6 42 22 | 10 3 41'26 | 19 M 47 | 19 × 17 | 27 M 20 | 11 Mp 7 | 26 m 51 | 17 る 15 | 20°R10 | 23) 59 | 4°R28 | 6 ₹ 13 | 4 ₹ 43 | 13 Ω 40 | 25°R30 | S 1 |
| M 2 | 6 46 19 | 11°42'37 | 3 . ₹36 | 20°34 | 28° 3 | 11°15 | 26°53 | 17°22 | 20耳 7 | 24° 0 | 4Ω 26 | 6°R14 | 4°39 | 13°46 | 259526 | M 2 |
| T 3 | 6 50 15 | 12°43'48 | 1 <u>7</u> °53 | 21°53 | 28°47 | 11°21 | 26°54 | 17°30 | 20° 5 | 24° 1 | 4°25 | 6°13 | 4°36 | 13°53 | 25°21 | T 3 |
| W 4 | 6 54 12 | 13°45'00 | 2 ろ 33 | 23°13 | 29°33 | 11°27 | 26°56 | 17°37 | 20° 3 | 24° 2 | 4°24 | 6°11 | 4°33 | 14° 0 | 25°17 | W 4 |
| T 5 | 6 58 8 | 14°46'11 | 17°32 | 24°34 | 0 才 19 | 11°33 | 26°57 | 17°44 | 20° 0 | 24° 3 | 4°23 | 6° 6 | 4°30 | 14° 7 | 25°13 | T 5 |
| F 6 | 7 2 5 | 15°47'22 | 2≈41 | 25°56 | 1° 6 | 11°37 | 26°58 | 17°51 | 19°58 | 24° 4 | 4°21 | 6° 1 | 4°27 | 14°13 | 25° 8 | F 6 |
| S 7 | 7 6 1 | 16°48'32 | 17°49 | 27°19 | 1°55 | 11°41 | 26°59 | 17°58 | 19°56 | 24° 5 | 4°20 | 5°54 | 4°24 | 14°20 | 25° 4 | S 7 |
| S 8 | 7 9 58 | 17°49'42 | 2){ 46 | 28°44 | 2°44 | 11°45 | 27° 0 | 18° 5 | 19°54 | 24° 6 | 4°19 | 5°48 | 4°20 | 14°27 | 25° 0 | S 8 |
| M 9 | 7 13 54 | 18°50'51 | 17°26 | 0중 9 | 3°33 | 11°47 | 27° 1 | 18°12 | 19°52 | 24° 7 | 4°17 | 5°43 | 4°17 | 14°33 | 24°55 | M 9 |
| T 10 | 7 17 51 | 19°51'59 | 1 Υ 42 | 1°34 | 4°24 | 11°49 | 27° 1 | 18°19 | 19°49 | 24° 9 | 4°16 | 5°39 | 4°14 | 14°40 | 24°51 | T 10 |
| W11 | 7 21 48 | 20°53'07 | 15°33 | 3° 1 | 5°15 | 11°50 | 27°R 1 | 18°26 | 19°47 | 24°10 | 4°15 | 5°D38 | 4°11 | 14°47 | 24°46 | W11 |
| T 12 | 7 25 44 | 21°54'14 | 28°59 | 4°28 | 6° 8 | 11°R50 | 27° 1 | 18°33 | 19°45 | 24°11 | 4°13 | 5°38 | 4° 8 | 14°54 | 24°42 | T 12 |
| F 13 | 7 29 41 | 22°55'20 | 128 4 | 5°56 | 7° 0 | 11°50 | 27° 1 | 18°40 | 19°43 | 24°12 | 4°12 | 5°39 | 4° 4 | 15° 0 | 24°37 | F 13 |
| S 14 | 7 33 37 | 23°56'25 | 24°49 | 7°25 | 7°54 | 11°49 | 27° 0 | 18°48 | 19°41 | 24°14 | 4°11 | 5°40 | 4° 1 | 15° 7 | 24°33 | S 14 |
| S 15 | 7 37 34 | 24°57'30 | 7 Ⅱ 19 | 8°54 | 8°48 | 11°47 | 27° 0 | 18°55 | 19°39 | 24°15 | 4° 9 | 5°R41 | 3°58 | 15°14 | 24°28 | S 15 |
| M16 | 7 41 30 | 25°58'33 | 19°37 | 10°24 | 9°43 | 11°44 | 26°59 | 19° 2 | 19°37 | 24°16 | 4° 8 | 5°40 | 3°55 | 15°20 | 24°24 | M16 |
| T 17 | 7 45 27 | 26°59'36 | 19546 | 11°54 | 10°38 | 11°41 | 26°58 | 19° 9 | 19°35 | 24°18 | 4° 7 | 5°36 | 3°52 | 15°27 | 24°20 | T 17 |
| W18 | 7 49 23 | 28° 0'38 | 13°48 | 13°25 | 11°34 | 11°36 | 26°57 | 19°16 | 19°33 | 24°19 | 4° 5 | 5°30 | 3°49 | 15°34 | 24°15 | W18 |
| T 19 | 7 53 20 | 29° 1'39 | 25°46 | 14°57 | 12°31 | 11°31 | 26°55 | 19°23 | 19°32 | 24°21 | 4° 4 | 5°22 | 3°45 | 15°41 | 24°11 | T 19 |
| F 20 | 7 57 17 | 0≈ 2'40 | 7 Ω 40 | 16°30 | 13°28 | 11°25 | 26°54 | 19°30 | 19°30 | 24°22 | 4° 2 | 5°11 | 3°42 | 15°47 | 24° 6 | F 20 |
| S 21 | 8 1 13 | 1° 3'39 | 19°33 | 18° 3 | 14°25 | 11°19 | 26°52 | 19°37 | 19°28 | 24°24 | 4° 1 | 5° 0 | 3°39 | 15°54 | 24° 2 | S 21 |
| S 22 | 8 5 10 | 2° 4'38 | 1 m 25 | 19°36 | 15°23 | 11°11 | 26°50 | 19°44 | 19°26 | 24°25 | 4° 0 | 4°48 | 3°36 | 16° 1 | 23°57 | S 22 |
| M23 | 8 9 6 | 3° 5'36 | 13°18 | 21°10 | 16°22 | 11° 3 | 26°48 | 19°51 | 19°25 | 24°27 | 3°58 | 4°38 | 3°33 | 16° 8 | 23°53 | M23 |
| T 24 | 8 13 3 | 4° 6'33 | 25°15 | 22°45 | 17°21 | 10°54 | 26°46 | 19°58 | 19°23 | 24°28 | 3°57 | 4°29 | 3°30 | 16°14 | 23°49 | T 24 |
| W25 | 8 16 59 | 5° 7'29 | 7 ≙ 20 | 24°21 | 18°21 | 10°44 | 26°43 | 20° 5 | 19°22 | 24°30 | 3°56 | 4°23 | 3°26 | 16°21 | 23°44 | W25 |
| T 26 | 8 20 56 | 6° 8'25 | 19°34 | 25°57 | 19°20 | 10°34 | 26°40 | 20°12 | 19°20 | 24°32 | 3°54 | 4°19 | 3°23 | 16°28 | 23°40 | T 26 |
| F 27 | 8 24 52 | 7° 9'20 | 2M 3 | 27°34 | 20°21 | 10°22 | 26°37 | 20°19 | 19°18 | 24°33 | 3°53 | 4°D17 | 3°20 | 16°34 | 23°36 | F 27 |
| S 28 | 8 28 49 | 8°10'14 | 14°52 | 29°12 | 21°22 | 10°10 | 26°34 | 20°25 | 19°17 | 24°35 | 3°51 | 4°17 | 3°17 | 16°41 | 23°31 | S 28 |
| S 29 | 8 32 46 | 9°11'08 | 28° 4 | 0≈50 | 22°23 | 9°57 | 26°31 | 20°32 | 19°16 | 24°37 | 3°50 | 4°R18 | 3°14 | 16°48 | 23°27 | S 29 |
| M30 | 8 36 42 | 10°12'01 | 11 ~ 43 | 2°29 | 23°24 | 9°43 | 26°28 | 20°39 | 19°14 | 24°38 | 3°49 | 4°18 | 3°10 | 16°55 | 23°23 | M30 |
| T 31 | 8 40 39 | 11≈12'52 | 25 × 751 | 4≈ 9 | 24 × ⁷ 26 | 9 m 29 | 26Mp24 | 20 궁 46 | 19 Ⅱ 13 | 24) (40 | 3 Ω 47 | 4 ₹ 16 | 3 ∡ 7 7 | 17 Ω 1 | 239519 | T 31 |

Delta T = 15.79 sec

Greg. Calendar

| FEBRUARY 1696 GC | 00:00 UT |
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| | |

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ | ነ ∜ | ¥ | Р | C. | ೧ | Ç | Š. | Day |
|------|----------|-------------------|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|---------------|--------------|---------------|----------------|--------|------|
| W 1 | 8 44 35 | 12≈13'43 | 10중27 | 5≈49 | 25 ₹ 28 | 9°R14 | 26°R20 | 20 궁 53 | 19°R12 | 24) (42 | 3°R46 | 4°R11 | 3 ₹ 4 | 17 0 8 | 23°R15 | W 1 |
| T 2 | 8 48 32 | 13°14'33 | 25°28 | 7°31 | 26°31 | 8 m /58 | 26Mp 16 | 21° 0 | 19 I I10 | 24°44 | 3 Ω 45 | 4 才 4 | 3° 1 | 17°15 | 239510 | T 2 |
| F 3 | 8 52 28 | 14°15'22 | 10≈44 | 9°13 | 27°34 | 8°41 | 26°12 | 21° 6 | 19° 9 | 24°46 | 3°43 | 3°55 | 2°58 | 17°21 | 23° 6 | F 3 |
| S 4 | 8 56 25 | 15°16'09 | 26° 6 | 10°56 | 28°37 | 8°24 | 26° 8 | 21°13 | 19° 8 | 24°47 | 3°42 | 3°44 | 2°55 | 17°28 | 23° 2 | S 4 |
| S 5 | 9 0 21 | 16°16'55 | 11 米 21 | 12°39 | 29°40 | 8° 6 | 26° 4 | 21°20 | 19° 7 | 24°49 | 3°40 | 3°33 | 2°51 | 17°35 | 22°58 | S 5 |
| M 6 | 9 4 18 | 17°17'40 | 26°18 | 14°24 | 0 국 44 | 7°47 | 25°59 | 21°26 | 19° 6 | 24°51 | 3°39 | 3°24 | 2°48 | 17°42 | 22°55 | M 6 |
| T 7 | 9 8 15 | 18°18'23 | 10 Y 50 | 16° 9 | 1°48 | 7°28 | 25°54 | 21°33 | 19° 5 | 24°53 | 3°38 | 3°17 | 2°45 | 17°48 | 22°51 | T 7 |
| W 8 | 9 12 11 | 19°19'04 | 24°53 | 17°55 | 2°52 | 7° 8 | 25°49 | 21°40 | 19° 4 | 24°55 | 3°36 | 3°12 | 2°42 | 17°55 | 22°47 | W 8 |
| T 9 | 9 16 8 | 20°19'43 | 8 8 27 | 19°42 | 3°57 | 6°48 | 25°44 | 21°46 | 19° 3 | 24°57 | 3°35 | 3°10 | 2°39 | 18° 2 | 22°43 | T 9 |
| F 10 | 9 20 4 | 21°20'21 | 21°33 | 21°30 | 5° 1 | 6°27 | 25°39 | 21°53 | 19° 2 | 24°59 | 3°34 | 3°D 9 | 2°36 | 18° 8 | 22°39 | F 10 |
| S 11 | 9 24 1 | 22°20'57 | 4 Ⅱ 16 | 23°18 | 6° 6 | 6° 6 | 25°33 | 21°59 | 19° 2 | 25° 1 | 3°32 | 3°R 9 | 2°32 | 18°15 | 22°36 | S 11 |
| S 12 | 9 27 57 | 23°21'32 | 16°40 | 25° 8 | 7°12 | 5°44 | 25°28 | 22° 5 | 19° 1 | 25° 3 | 3°31 | 3° 9 | 2°29 | 18°22 | 22°32 | S 12 |
| M13 | 9 31 54 | 24°22'05 | 28°51 | 26°58 | 8°17 | 5°22 | 25°22 | 22°12 | 19° 0 | 25° 5 | 3°30 | 3° 6 | 2°26 | 18°29 | 22°29 | M13 |
| T 14 | 9 35 50 | 25°22'35 | 10951 | 28°48 | 9°23 | 4°59 | 25°16 | 22°18 | 19° 0 | 25° 7 | 3°29 | 3° 1 | 2°23 | 18°35 | 22°25 | T 14 |
| W15 | 9 39 47 | 26°23'04 | 22°47 | 0) 40 | 10°29 | 4°37 | 25°10 | 22°24 | 18°59 | 25° 9 | 3°27 | 2°53 | 2°20 | 18°42 | 22°22 | W15 |
| T 16 | 9 43 44 | 27°23'32 | 4€39 | 2°32 | 11°35 | 4°14 | 25° 4 | 22°31 | 18°59 | 25°11 | 3°26 | 2°42 | 2°16 | 18°49 | 22°19 | T 16 |
| F 17 | 9 47 40 | 28°23'57 | 16°30 | 4°24 | 12°41 | 3°50 | 24°58 | 22°37 | 18°58 | 25°13 | 3°25 | 2°29 | 2°13 | 18°55 | 22°15 | F 17 |
| S 18 | 9 51 37 | 29°24'21 | 28°23 | 6°17 | 13°48 | 3°27 | 24°52 | 22°43 | 18°58 | 25°15 | 3°24 | 2°14 | 2°10 | 19° 2 | 22°12 | S 18 |
| S 19 | 9 55 33 | 0) €24'43 | 10 m)18 | 8°10 | 14°54 | 3° 3 | 24°45 | 22°49 | 18°57 | 25°17 | 3°22 | 1°59 | 2° 7 | 19° 9 | 22° 9 | S 19 |
| M20 | 9 59 30 | 1°25'04 | 22°17 | 10° 3 | 16° 1 | 2°39 | 24°39 | 22°55 | 18°57 | 25°19 | 3°21 | 1°45 | 2° 4 | 19°16 | 22° 6 | M20 |
| T 21 | 10 3 26 | 2°25'23 | 4 ≏ 21 | 11°55 | 17° 8 | 2°16 | 24°32 | 23° 1 | 18°57 | 25°21 | 3°20 | 1°34 | 2° 1 | 19°22 | 22° 3 | T 21 |
| W22 | 10 7 23 | 3°25'40 | 16°32 | 13°48 | 18°15 | 1°52 | 24°25 | 23° 7 | 18°56 | 25°24 | 3°19 | 1°24 | 1°57 | 19°29 | 22° 0 | W22 |
| T 23 | 10 11 19 | 4°25'56 | 28°51 | 15°40 | 19°23 | 1°28 | 24°19 | 23°13 | 18°56 | 25°26 | 3°18 | 1°18 | 1°54 | 19°36 | 21°58 | T 23 |
| F 24 | 10 15 16 | 5°26'10 | 11 M 23 | 17°30 | 20°30 | 1° 4 | 24°12 | 23°19 | 18°56 | 25°28 | 3°17 | 1°15 | 1°51 | 19°43 | 21°55 | F 24 |
| S 25 | 10 19 13 | 6°26'23 | 24°10 | 19°20 | 21°38 | 0°41 | 24° 5 | 23°25 | 18°D56 | 25°30 | 3°15 | 1°14 | 1°48 | 19°49 | 21°52 | S 25 |
| S 26 | 10 23 9 | 7°26'34 | 7 √ 17 | 21° 8 | 22°46 | 0°17 | 23°57 | 23°31 | 18°56 | 25°32 | 3°14 | 1°14 | 1°45 | 19°56 | 21°50 | S 26 |
| M27 | 10 27 6 | 8°26'44 | 20°47 | 22°53 | 23°54 | 29 Ω 54 | 23°50 | 23°37 | 18°56 | 25°34 | 3°13 | 1°14 | 1°42 | 20° 3 | 21°47 | M27 |
| T 28 | 10 31 2 | 9°26'52 | 4 조 43 | 24°36 | 2 <u>5</u> ° 2 | 29°31 | 23°43 | 2 <u>3</u> °42 | 18°56 | 25°37 | 3°12 | 1°12 | 1°38 | 20° 9 | 21°45 | T 28 |
| W29 | 10 34 59 | 10 米 26'59 | 19る 5 | 26 米 16 | 26 궁 10 | 29€ 8 | 23 m 35 | 23 る 48 | 18 Ⅱ 57 | 25 米 39 | 3 Ω 11 | 1 才 8 | 1 ₹ 35 | 20 Ω 16 | 219543 | W29 |

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|------|----------|-------------------|------------------|----------------|----------------|-----------------|----------------|----------------|----------------|-----------------|---------------|----------------|----------------|----------------|--------|------|
| T 1 | 10 38 55 | 11) 27'04 | 3≈51 | 27) 52 | 27 궁 18 | 28°R46 | 23°R28 | 23 궁 53 | 18 耳 57 | 25) (41 | 3°R10 | 1°R 1 | 1 ∡ 132 | 20∕Ω23 | 21°R41 | T 1 |
| F 2 | 10 42 52 | 12°27'07 | 18°56 | 29°24 | 28°27 | $28\Omega 24$ | 23 Mp 21 | 23°59 | 18°57 | 25°43 | 3 N 9 | 0 х 51 | 1°29 | 20°30 | 219538 | F 2 |
| S 3 | 10 46 48 | 13°27'09 | 4) (11 | 0 Υ 51 | 29°35 | 28° 2 | 23°13 | 24° 4 | 18°57 | 25°45 | 3° 8 | 0°40 | 1°26 | 20°36 | 21°36 | S 3 |
| S 4 | 10 50 45 | 14°27'08 | 19°24 | 2°13 | 0≈44 | 27°41 | 23° 5 | 24°10 | 18°58 | 25°48 | 3° 7 | 0°29 | 1°22 | 20°43 | 21°35 | S 4 |
| M 5 | 10 54 42 | 15°27'06 | 4 Υ25 | 3°29 | 1°53 | 27°21 | 22°58 | 24°15 | 18°58 | 25°50 | 3° 6 | 0°19 | 1°19 | 20°50 | 21°33 | M 5 |
| T 6 | 10 58 38 | 16°27'02 | 19° 5 | 4°38 | 3° 2 | 27° 0 | 22°50 | 24°20 | 18°59 | 25°52 | 3° 5 | 0°11 | 1°16 | 20°56 | 21°31 | T 6 |
| W 7 | 11 2 35 | 17°26'55 | 3 8 17 | 5°41 | 4°11 | 26°41 | 22°42 | 24°25 | 18°59 | 25°54 | 3° 4 | 0° 6 | 1°13 | 21° 3 | 21°29 | W 7 |
| T 8 | 11 631 | 18°26'47 | 17° 0 | 6°37 | 5°20 | 26°22 | 22°35 | 24°31 | 19° 0 | 25°57 | 3° 3 | 0° 3 | 1°10 | 21°10 | 21°28 | T 8 |
| F 9 | 11 10 28 | 19°26'36 | 0Д13 | 7°25 | 6°29 | 26° 4 | 22°27 | 24°36 | 19° 1 | 25°59 | 3° 2 | 0°D 3 | 1° 7 | 21°17 | 21°27 | F 9 |
| S 10 | 11 14 24 | 20°26'23 | 13° 1 | 8° 5 | 7°39 | 25°46 | 22°19 | 24°41 | 19° 1 | 26° 1 | 3° 1 | 0° 3 | 1° 3 | 21°23 | 21°25 | S 10 |
| S 11 | 11 18 21 | 21°26'07 | 25°28 | 8°37 | 8°48 | 25°29 | 22°11 | 24°46 | 19° 2 | 26° 3 | 3° 1 | 0°R 3 | 1° 0 | 21°30 | 21°24 | S 11 |
| M12 | 11 22 17 | 22°25'50 | 7 9 39 | 9° 0 | 9°58 | 25°12 | 22° 3 | 24°50 | 19° 3 | 26° 6 | 3° 0 | 0° 2 | 0°57 | 21°37 | 21°23 | M12 |
| T 13 | 11 26 14 | 23°25'30 | 19°39 | 9°16 | 11° 7 | 24°57 | 21°56 | 24°55 | 19° 4 | 26° 8 | 2°59 | 29M59 | 0°54 | 21°43 | 21°22 | T 13 |
| W14 | 11 30 10 | 24°25'08 | 1Ω 32 | 9°R23 | 12°17 | 24°42 | 21°48 | 25° 0 | 19° 5 | 26°10 | 2°58 | 29°53 | 0°51 | 21°50 | 21°21 | W14 |
| T 15 | 11 34 7 | 25°24'43 | 13°22 | 9°21 | 13°27 | 24°28 | 21°40 | 25° 5 | 19° 6 | 26°13 | 2°57 | 29°44 | 0°47 | 21°57 | 21°20 | T 15 |
| F 16 | 11 38 4 | 26°24'16 | 25°14 | 9°12 | 14°36 | 24°14 | 21°32 | 25° 9 | 19° 7 | 26°15 | 2°57 | 29°34 | 0°44 | 22° 4 | 21°19 | F 16 |
| S 17 | 11 42 0 | 27°23'48 | 7 m) 9 | 8°56 | 15°46 | 24° 1 | 21°25 | 25°14 | 19°8 | 26°17 | 2°56 | 29°22 | 0°41 | 22°10 | 21°19 | S 17 |
| S 18 | 11 45 57 | 28°23'17 | 19°10 | 8°32 | 16°56 | 23°49 | 21°17 | 25°18 | 19° 9 | 26°19 | 2°55 | 29°10 | 0°38 | 22°17 | 21°18 | S 18 |
| M19 | 11 49 53 | 29°22'43 | 1 ≙ 17 | 8° 2 | 18° 6 | 23°38 | 21° 9 | 25°22 | 19°10 | 26°22 | 2°55 | 28°59 | 0°35 | 22°24 | 21°18 | M19 |
| T 20 | 11 53 50 | 0 Υ 22'08 | 13°31 | 7°26 | 19°17 | 23°28 | 21° 2 | 25°27 | 19°11 | 26°24 | 2°54 | 28°49 | 0°32 | 22°31 | 21°17 | T 20 |
| W21 | 11 57 46 | 1°21'31 | 25°55 | 6°45 | 20°27 | 23°18 | 20°54 | 25°31 | 19°12 | 26°26 | 2°53 | 28°42 | 0°28 | 22°37 | 21°17 | W21 |
| T 22 | 12 1 43 | 2°20'52 | 8 M 28 | 6° 0 | 21°37 | 23° 9 | 20°47 | 25°35 | 19°14 | 26°28 | 2°53 | 28°38 | 0°25 | 22°44 | 21°17 | T 22 |
| F 23 | 12 5 39 | 3°20'11 | 21°12 | 5°12 | 22°48 | 23° 1 | 20°39 | 25°39 | 19°15 | 26°31 | 2°52 | 28°36 | 0°22 | 22°51 | 21°D17 | F 23 |
| S 24 | 12 9 36 | 4°19'28 | 4 ₹ 9 | 4°22 | 23°58 | 22°54 | 20°32 | 25°43 | 19°17 | 26°33 | 2°52 | 28°D35 | 0°19 | 22°57 | 21°17 | S 24 |
| S 25 | 12 13 33 | 5°18'44 | 17°21 | 3°31 | 25° 8 | 22°47 | 20°24 | 25°47 | 19°18 | 26°35 | 2°51 | 28°36 | 0°16 | 23° 4 | 21°17 | S 25 |
| M26 | 12 17 29 | 6°17'58 | 0 궁 51 | 2°41 | 26°19 | 22°41 | 20°17 | 25°51 | 19°20 | 26°37 | 2°51 | 28°R37 | 0°13 | 23°11 | 21°18 | M26 |
| T 27 | 12 21 26 | 7°17'10 | 14°40 | 1°51 | 27°30 | 22°36 | 20°10 | 25°54 | 19°21 | 26°40 | 2°50 | 28°37 | 0° 9 | 23°18 | 21°18 | T 27 |
| W28 | 12 25 22 | 8°16'20 | 28°50 | 1° 4 | 28°40 | 22°32 | 20° 3 | 25°58 | 19°23 | 26°42 | 2°50 | 28°35 | 0° 6 | 23°24 | 21°18 | W28 |
| T 29 | 12 29 19 | 9°15'28 | 13 ≈ 18 | 0°19 | 29°51 | 22°29 | 19°56 | 26° 2 | 19°24 | 26°44 | 2°49 | 28°31 | 0° 3 | 23°31 | 21°19 | T 29 |
| F 30 | 12 33 15 | 10°14'35 | 28° 1 | 29) 38 | 1) 2 | 22°26 | 19°49 | 26° 5 | 19°26 | 26°46 | 2°49 | 28°26 | 29M59 | 23°38 | 21°20 | F 30 |
| S 31 | 12 37 12 | 11 Y 13'40 | 12) (54 | 29 米 1 | 2 ∺ 13 | 22 \O 24 | 19 M 42 | 26 궁 9 | 19 Ⅱ 28 | 26) 49 | 2 Ω 48 | 28 M 19 | 29 M 57 | 23 N 44 | 219921 | S 31 |

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APRIL 1696 GC

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)ұ(| ¥ | Р | v | v | Ç | ę, | Day |
|------|----------|-------------------|------------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|---------------|-----------------|----------------|----------------|--------|------|
| S 1 | 12 41 8 | 12 ° 12'42 | 27) (48 | 28°R28 | 3 ∺ 24 | 22°R23 | 19°R35 | 26 궁 12 | 19 Ⅱ 30 | 26 米 51 | 2°R48 | 28°R11 | 29M53 | 23 Ω 51 | 219521 | S 1 |
| M 2 | 12 45 5 | 13°11'43 | 12 Y 34 | 28 米 0 | 4°35 | 22°D23 | 19 m 28 | 26°15 | 19°32 | 26°53 | $2\Omega 48$ | 28M 5 | 29°50 | 23°58 | 21°22 | M 2 |
| T 3 | 12 49 2 | 14°10'42 | 27° 5 | 27°38 | 5°46 | $22\Omega 23$ | 19°22 | 26°18 | 19°33 | 26°55 | 2°47 | 27°59 | 29°47 | 24° 5 | 21°24 | T 3 |
| W 4 | 12 52 58 | 15° 9'39 | 11 8 14 | 27°21 | 6°57 | 22°24 | 19°15 | 26°21 | 19°35 | 26°57 | 2°47 | 27°56 | 29°44 | 24°11 | 21°25 | W 4 |
| T 5 | 12 56 55 | 16° 8'33 | 24°57 | 27° 9 | 8° 8 | 22°26 | 19° 9 | 26°24 | 19°37 | 27° 0 | 2°47 | 27°D55 | 29°41 | 24°18 | 21°26 | T 5 |
| F 6 | 13 0 51 | 17° 7'26 | 8 Ⅱ 15 | 27° 3 | 9°19 | 22°28 | 19° 3 | 26°27 | 19°39 | 27° 2 | 2°47 | 27°55 | 29°38 | 24°25 | 21°27 | F 6 |
| S 7 | 13 4 48 | 18° 6'16 | 21° 8 | 27°D 2 | 10°30 | 22°32 | 18°57 | 26°30 | 19°41 | 27° 4 | 2°46 | 27°57 | 29°34 | 24°32 | 21°29 | S 7 |
| S 8 | 13 8 44 | 19° 5'04 | 39540 | 27° 6 | 11°41 | 22°35 | 18°51 | 26°33 | 19°44 | 27° 6 | 2°46 | 27°58 | 29°31 | 24°38 | 21°31 | S 8 |
| M 9 | 13 12 41 | 20° 3'50 | 15°55 | 27°16 | 12°53 | 22°40 | 18°45 | 26°35 | 19°46 | 27° 8 | 2°46 | 27°R59 | 29°28 | 24°45 | 21°32 | M 9 |
| T 10 | 13 16 37 | 21° 2'33 | 27°57 | 27°30 | 14° 4 | 22°45 | 18°40 | 26°38 | 19°48 | 27°10 | 2°46 | 27°59 | 29°25 | 24°52 | 21°34 | T 10 |
| W11 | 13 20 34 | 22° 1'14 | 9 Ω 52 | 27°49 | 15°15 | 22°51 | 18°34 | 26°40 | 19°50 | 27°12 | 2°46 | 27°57 | 29°22 | 24°58 | 21°36 | W11 |
| T 12 | 13 24 31 | 22°59'53 | 21°43 | 28°13 | 16°26 | 22°58 | 18°29 | 26°42 | 19°52 | 27°15 | 2°46 | 27°54 | 29°18 | 25° 5 | 21°38 | T 12 |
| F 13 | 13 28 27 | 23°58'30 | 3 m 37 | 28°41 | 17°38 | 23° 5 | 18°23 | 26°45 | 19°55 | 27°17 | 2°46 | 27°49 | 29°15 | 25°12 | 21°40 | F 13 |
| S 14 | 13 32 24 | 24°57'04 | 15°35 | 29°14 | 18°49 | 23°13 | 18°18 | 26°47 | 19°57 | 27°19 | 2°D46 | 27°44 | 29°12 | 25°19 | 21°42 | S 14 |
| S 15 | 13 36 20 | 25°55'37 | 27°41 | 29°50 | 20° 1 | 23°21 | 18°13 | 26°49 | 19°59 | 27°21 | 2°46 | 27°38 | 29° 9 | 25°25 | 21°44 | S 15 |
| M16 | 13 40 17 | 26°54'07 | 9 ≙ 57 | 0 Υ 31 | 21°12 | 23°31 | 18° 8 | 26°51 | 20° 2 | 27°23 | 2°46 | 27°33 | 29° 6 | 25°32 | 21°47 | M16 |
| T 17 | 13 44 13 | 27°52'35 | 22°24 | 1°15 | 22°24 | 23°40 | 18° 4 | 26°53 | 20° 4 | 27°25 | 2°46 | 27°28 | 29° 3 | 25°39 | 21°49 | T 17 |
| W18 | 13 48 10 | 28°51'02 | 5 M , 4 | 2° 2 | 23°35 | 23°50 | 17°59 | 26°54 | 20° 7 | 27°27 | 2°46 | 27°25 | 28°59 | 25°45 | 21°52 | W18 |
| T 19 | 13 52 6 | 29°49'26 | 17°56 | 2°53 | 24°47 | 24° 1 | 17°55 | 26°56 | 20° 9 | 27°29 | 2°46 | 27°24 | 28°56 | 25°52 | 21°54 | T 19 |
| F 20 | 13 56 3 | 0 8 47'49 | 1 才 0 | 3°47 | 25°58 | 24°13 | 17°51 | 26°58 | 20°12 | 27°31 | 2°46 | 27°D23 | 28°53 | 25°59 | 21°57 | F 20 |
| S 21 | 13 59 59 | 1°46'11 | 14°17 | 4°44 | 27°10 | 24°24 | 17°47 | 26°59 | 20°15 | 27°33 | 2°46 | 27°24 | 28°50 | 26° 6 | 22° 0 | S 21 |
| S 22 | 14 3 56 | 2°44'30 | 27°47 | 5°44 | 28°22 | 24°37 | 17°43 | 27° 1 | 20°17 | 27°35 | 2°47 | 27°26 | 28°47 | 26°12 | 22° 3 | S 22 |
| M23 | 14 7 53 | 3°42'48 | 11 る 29 | 6°47 | 29°33 | 24°50 | 17°39 | 27° 2 | 20°20 | 27°37 | 2°47 | 27°27 | 28°44 | 26°19 | 22° 6 | M23 |
| T 24 | 14 11 49 | 4°41'05 | 25°24 | 7°53 | 0 Υ 45 | 25° 3 | 17°36 | 27° 3 | 20°23 | 27°39 | 2°47 | 27°28 | 28°40 | 26°26 | 22° 9 | T 24 |
| W25 | 14 15 46 | 5°39'20 | 9≈30 | 9° 1 | 1°57 | 25°17 | 17°33 | 27° 4 | 20°25 | 27°40 | 2°47 | 27°R28 | 28°37 | 26°33 | 22°12 | W25 |
| T 26 | 14 19 42 | 6°37'33 | 23°46 | 10°12 | 3° 9 | 25°32 | 17°29 | 27° 5 | 20°28 | 27°42 | 2°48 | 27°27 | 28°34 | 26°39 | 22°16 | T 26 |
| F 27 | 14 23 39 | 7°35'45 | 8 米 10 | 11°26 | 4°21 | 25°47 | 17°26 | 27° 6 | 20°31 | 27°44 | 2°48 | 27°26 | 28°31 | 26°46 | 22°19 | F 27 |
| S 28 | 14 27 35 | 8°33'55 | 22°37 | 12°41 | 5°32 | 26° 2 | 17°24 | 27° 7 | 20°34 | 27°46 | 2°48 | 27°24 | 28°28 | 26°53 | 22°22 | S 28 |
| S 29 | 14 31 32 | 9°32'04 | 7 Υ 3 | 13°59 | 6°44 | 26°18 | 17°21 | 27° 7 | 20°37 | 27°48 | 2°49 | 27°21 | 28°24 | 26°59 | 22°26 | S 29 |
| M30 | 14 35 28 | 10830'12 | 21 Y 23 | 15 Y 20 | 7 Ƴ 56 | 26 Ω 34 | 17 M 19 | 27る8 | 20 Ⅱ 40 | 27 米 50 | 2 Ω 49 | 27 IL 19 | 28 M 21 | 27 Ω 6 | 22930 | M30 |

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| T 1 | 14 39 25 | 11828'18 | 5 8 31 | 16 Y 42 | 9 Υ 8 | 26€51 | 17°R16 | 27 る 9 | 20∏42 | 27 米 51 | 2 N 50 | 27°R17 | 28 M .18 | 27 Ω 13 | 22933 | T 1 |
| W 2 | 14 43 22 | 12°26'22 | 19°23 | 18° 7 | 10°20 | 27° 8 | 17 m 14 | 27° 9 | 20°45 | 27°53 | 2°50 | 27 m 17 | 28°15 | 27°20 | 22°37 | W 2 |
| T 3 | 14 47 18 | 13°24'25 | 2∏56 | 19°34 | 11°32 | 27°26 | 17°12 | 27° 9 | 20°48 | 27°55 | 2°51 | 27°D17 | 28°12 | 27°26 | 22°41 | T 3 |
| | 14 51 15 | 14°22'26 | 16° 8 | 21° 3 | 12°44 | 27°44 | 17°11 | 27°10 | 20°51 | 27°57 | 2°51 | 27°17 | 28° 9 | 27°33 | 22°45 | F 4 |
| S 5 | 14 55 11 | 15°20'25 | 29° 0 | 22°34 | 13°56 | 28° 3 | 17° 9 | 27°10 | 20°55 | 27°58 | 2°52 | 27°18 | 28° 5 | 27°40 | 22°49 | S 5 |
| | 14 59 8 | 16°18'22 | 119933 | 24° 7 | 15° 8 | 28°22 | 17° 8 | 27°R10 | 20°58 | 28° 0 | 2°52 | 27°19 | 28° 2 | 27°47 | 22°53 | S 6 |
| | 15 3 4 | 17°16'18 | 23°50 | 25°42 | 16°20 | 28°41 | 17° 6 | 27°10 | 21° 1 | 28° 2 | 2°53 | 27°20 | 27°59 | 27°53 | 22°57 | M 7 |
| | 15 7 1 | 18°14'12 | 5 Ω 54 | 27°20 | 17°32 | 29° 1 | 17° 5 | 27° 9 | 21° 4 | 28° 3 | 2°53 | 27°21 | 27°56 | 28° 0 | 23° 2 | T 8 |
| | 15 10 57 | 19°12'04 | 17°51 | 28°59 | 18°44 | 29°21 | 17° 5 | 27° 9 | 21° 7 | 28° 5 | 2°54 | 27°R21 | 27°53 | 28° 7 | 23° 6 | W 9 |
| - | 15 14 54 | 20° 9'54 | 29°44 | 0841 | 19°56 | 29°41 | 17° 4 | 27° 9 | 21°10 | 28° 6 | 2°55 | 27°21 | 27°50 | 28°13 | 23°10 | T 10 |
| | 15 18 51 | 21° 7'42 | 11 m 39 | 2°24 | 21° 9 | 0 Mp 2 | 17° 4 | 27° 8 | 21°13 | 28° 8 | 2°55 | 27°20 | 27°46 | 28°20 | 23°15 | F 11 |
| S 12 | 15 22 47 | 22° 5'29 | 23°39 | 4°10 | 22°21 | 0°23 | 17° 3 | 27° 8 | 21°17 | 28° 9 | 2°56 | 27°20 | 27°43 | 28°27 | 23°19 | S 12 |
| S 13 | 15 26 44 | 23° 3'14 | 5 ≙ 49 | 5°57 | 23°33 | 0°45 | 17°D 3 | 27° 7 | 21°20 | 28°11 | 2°57 | 27°19 | 27°40 | 28°34 | 23°24 | S 13 |
| | 15 30 40 | 24° 0'58 | 18°11 | 7°47 | 24°45 | 1° 7 | 17° 3 | 27° 6 | 21°23 | 28°12 | 2°58 | 27°19 | 27°37 | 28°40 | 23°29 | M14 |
| T 15 | 15 34 37 | 24°58'40 | 0 M .49 | 9°39 | 25°57 | 1°29 | 17° 4 | 27° 5 | 21°26 | 28°14 | 2°58 | 27°18 | 27°34 | 28°47 | 23°34 | T 15 |
| | 15 38 33 | 25°56'20 | 13°44 | 11°33 | 27° 9 | 1°52 | 17° 4 | 27° 5 | 21°30 | 28°15 | 2°59 | 27°18 | 27°30 | 28°54 | 23°38 | W16 |
| | 15 42 30 | 26°54'00 | 26°55 | 13°29 | 28°22 | 2°15 | 17° 5 | 27° 4 | 21°33 | 28°17 | 3° 0 | 27°18 | 27°27 | 29° 0 | 23°43 | T 17 |
| - | 15 46 26 | 27°51'38 | 10 × 23 | 15°26 | 29°34 | 2°38 | 17° 5 | 27° 2 | 21°36 | 28°18 | 3° 1 | 27°18 | 27°24 | 29° 7 | 23°48 | F 18 |
| S 19 | 15 50 23 | 28°49'14 | 24° 6 | 17°26 | 0 8 46 | 3° 1 | 17° 6 | 27° 1 | 21°40 | 28°19 | 3° 2 | 27°18 | 27°21 | 29°14 | 23°54 | S 19 |
| S 20 | 15 54 20 | 29°46'50 | 8 ප 2 | 19°28 | 1°58 | 3°25 | 17° 8 | 27° 0 | 21°43 | 28°21 | 3° 3 | 27°18 | 27°18 | 29°21 | 23°59 | S 20 |
| | 15 58 16 | 0∏44'25 | 22° 7 | 21°31 | 3°11 | 3°49 | 17° 9 | 26°58 | 21°46 | 28°22 | 3° 4 | 27°18 | 27°15 | 29°27 | 24° 4 | M21 |
| | 16 2 13 | 1°41'58 | 6≈18 | 23°36 | 4°23 | 4°13 | 17°11 | 26°57 | 21°50 | 28°23 | 3° 4 | 27°17 | 27°11 | 29°34 | 24° 9 | T 22 |
| | 16 6 9 | 2°39'31 | 20°33 | 25°43 | 5°35 | 4°38 | 17°12 | 26°55 | 21°53 | 28°25 | 3° 5 | 27°17 | 27° 8 | 29°41 | 24°14 | W23 |
| | 16 10 6 | 3°37'03 | 4) (48 | 27°51 | 6°48 | 5° 3 | 17°14 | 26°54 | 21°57 | 28°26 | 3° 6 | 27°D17 | 27° 5 | 29°48 | 24°20 | T 24 |
| | 16 14 2 | 4°34'34 | 19° 1 | 0 II 0 | 8° 0 | 5°28 | 17°16 | 26°52 | 22° 0 | 28°27 | 3° 7 | 27°17 | 27° 2 | 29°54 | 24°25 | F 25 |
| S 26 | 16 17 59 | 5°32'04 | 3 Υ 9 | 2°11 | 9°13 | 5°54 | 17°18 | 26°50 | 22° 4 | 28°28 | 3° 8 | 27°18 | 26°59 | 0 m y 1 | 24°31 | S 26 |
| S 27 | 16 21 55 | 6°29'34 | 17° 9 | 4°22 | 10°25 | 6°19 | 17°21 | 26°48 | 22° 7 | 28°29 | 3°10 | 27°18 | 26°56 | 0° 8 | 24°36 | S 27 |
| | 16 25 52 | 7°27'03 | 18 1 | 6°34 | 11°37 | 6°45 | 17°23 | 26°46 | 22°10 | 28°30 | 3°11 | 27°19 | 26°52 | 0°14 | 24°42 | M28 |
| T 29 | 16 29 49 | 8°24'31 | 14°42 | 8°46 | 12°50 | 7°12 | 17°26 | 26°44 | 22°14 | 28°31 | 3°12 | 27°20 | 26°49 | 0°21 | 24°48 | T 29 |
| | 16 33 45 | 9°21'58 | 28°10 | 10°58 | 14° 2 | 7°38 | 17°29 | 26°42 | 22°17 | 28°32 | 3°13 | 27°R20 | 26°46 | 0°28 | 24°54 | W30 |
| T 31 | 16 37 42 | 10∏19′24 | 11 II 23 | 13 II 10 | 15 8 15 | 8Mp 5 | 17 m 32 | 26 궁 39 | 22 II 21 | 28 米 33 | 3 Ω 14 | 27 M 20 | 26M43 | 0 m /35 | 249559 | T 31 |

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|--------------|---------------------|-----------------------------|------------------------|----------------|-----------------|----------------|------------------|----------------|-----------------|----------------|---------------|-----------------|----------------|---------------|----------------|-------------|
| F 1 | 16 41 38 | 11 II 16'50 | 24∏21 | 15 Ⅱ 21 | 16 8 27 | 8 Mp 32 | 17 m 35 | 26°R37 | 22 II 25 | 28) 34 | 3 Ω 15 | 27°R19 | 26M40 | 0 m 41 | 2595 5 | F 1 |
| S 2 | 16 45 35 | 12°14'14 | 7 95 3 | 17°31 | 17°40 | 8°59 | 17°39 | 26 궁 35 | 22°28 | 28°35 | 3°16 | 27 M 17 | 26°36 | 0°48 | 25°11 | S 2 |
| S 3 | 16 49 31 | 13°11'38 | 19°31 | 19°41 | 18°52 | 9°27 | 17°42 | 26°32 | 22°32 | 28°36 | 3°17 | 27°15 | 26°33 | 0°55 | 25°17 | S 3 |
| M 4 | 16 53 28 | 14° 9'00 | 1 Ω 46 | 21°49 | 20° 5 | 9°54 | 17°46 | 26°29 | 22°35 | 28°37 | 3°19 | 27°12 | 26°30 | 1° 2 | 25°23 | M 4 |
| T 5 | 16 57 24 | 15° 6'22 | 13°50 | 23°56 | 21°18 | 10°22 | 17°50 | 26°27 | 22°39 | 28°38 | 3°20 | 27°10 | 26°27 | 1° 8 | 25°29 | T 5 |
| W 6 | 17 121 | 16° 3'42 | 25°46 | 26° 1 | 22°30 | 10°50 | 17°54 | 26°24 | 22°42 | 28°39 | 3°21 | 27° 8 | 26°24 | 1°15 | 25°35 | W 6 |
| T 7 | 17 5 18 | 17° 1'01 | 7 m /40 | 28° 4 | 23°43 | 11°19 | 17°58 | 26°21 | 22°46 | 28°40 | 3°22 | 27° 7 | 26°21 | 1°22 | 25°42 | T 7 |
| F 8 | 17 9 14 | 17°58'20 | 19°34 | 099 6 | 24°55 | 11°47 | 18° 3 | 26°18 | 22°49 | 28°40 | 3°24 | 27°D 7 | 26°17 | 1°28 | 25°48 | F 8 |
| S 9 | 17 13 11 | 18°55'38 | 1 ≏ 34 | 2° 5 | 26° 8 | 12°16 | 18° 7 | 26°15 | 22°53 | 28°41 | 3°25 | 27° 7 | 26°14 | 1°35 | 25°54 | S 9 |
| S 10 | 17 17 7 | 19°52'54 | 13°44 | 4° 2 | 27°21 | 12°45 | 18°12 | 26°12 | 22°57 | 28°42 | 3°26 | 27° 8 | 26°11 | 1°42 | 26° 0 | S 10 |
| M11 | 17 21 4 | 20°50'10 | 26° 8 | 5°57 | 28°33 | 13°14 | 18°17 | 26° 9 | 23° 0 | 28°42 | 3°28 | 27°10 | 26° 8 | 1°49 | 26° 7 | M11 |
| T 12 | 17 25 0 | 21°47'25 | 8 M .51 | 7°50 | 29°46 | 13°44 | 18°22 | 26° 6 | 23° 4 | 28°43 | 3°29 | 27°11 | 26° 5 | 1°55 | 26°13 | T 12 |
| W13 | 17 28 57 | 22°44'40 | 21°55 | 9°41 | 0Д59 | 14°13 | 18°27 | 26° 3 | 23° 7 | 28°44 | 3°30 | 27°R12 | 26° 2 | 2° 2 | 26°20 | W13 |
| T 14 | 17 32 53 | 23°41'53 | 5 × 22 | 11°29 | 2°12 | 14°43 | 18°32 | 25°59 | 23°11 | 28°44 | 3°32 | 27°12 | 25°58 | 2° 9 | 26°26 | T 14 |
| F 15 | 17 36 50 | 24°39'07 | 19°10 | 13°15 | 3°24 | 15°13 | 18°38 | 25°56 | 23°14 | 28°45 | 3°33 | 27°11 | 25°55 | 2°15 | 26°33 | F 15 |
| S 16 | 17 40 47 | 25°36'19 | 3 ට 18 | 14°58 | 4°37 | 15°43 | 18°43 | 25°52 | 23°18 | 28°45 | 3°35 | 27° 8 | 25°52 | 2°22 | 26°39 | S 16 |
| S 17 | 17 44 43 | 26°33'32 | 17°41 | 16°39 | 5°50 | 16°14 | 18°49 | 25°49 | 23°22 | 28°46 | 3°36 | 27° 4 | 25°49 | 2°29 | 26°46 | S 17 |
| M18 | 17 48 40 | 27°30'44 | 2≈14 | 18°18 | 7° 3 | 16°44 | 18°55 | 25°45 | 23°25 | 28°46 | 3°38 | 27° 0 | 25°46 | 2°36 | 26°53 | M18 |
| T 19 | 17 52 36 | 28°27'56 | 16°50 | 19°55 | 8°16 | 17°15 | 19° 1 | 25°42 | 23°29 | 28°46 | 3°39 | 26°56 | 25°42 | 2°42 | 26°59 | T 19 |
| W20 | 17 56 33 | 29°25'08 | 1 ∺ 22 | 21°29 23° 1 | 9°28 10°41 | 17°46 | 19° 7 | 25°38 | 23°32 | 28°47 28°47 | 3°40 3°42 | 26°53 26°50 | 25°39 | 2°49 | 27° 6 27°13 | W20 T 21 |
| T 21 F 22 | 18 0 29 18 4 26 | 0 © 22'19 1°19'31 | 15°47 29°59 | 24°30 | 10°41 11°54 | 18°17 18°48 | 19°14 19°20 | 25°34 25°30 | 23°36 23°39 | 28°47 28°47 | 3°42 3°43 | 26°D50 | 25°36 25°33 | 2°56 3° 3 | 27°13 | F 22 |
| S 23 | 18 8 22 | 2°16'43 | 13 Y 58 | 25°57 | 13° 7 | 19°19 | 19°27 | 25°27 | 23°43 | 28°48 | 3°45 | 26°50 | 25°30 | 3° 9 | 27°27 | S 23 |
| | | | | | | | | | | | | | | | | |
| S 24 | 18 12 19 | 3°13'55 | 27°43 | 27°21 | 14°20 | 19°51 | 19°33 | 25°23 | 23°47 | 28°48 | 3°47 | 26°51 | 25°27 | 3°16 | 27°33 | S 24 |
| M25 | 18 16 16 | 4°11'07 | 11813 | 28°43 | 15°33 | 20°23 | 19°40 | 25°19 | 23°50 | 28°48 | 3°48 | 26°53 | 25°23 | 3°23 | 27°40 | M25 |
| T 26 W27 | 18 20 12 18 24 9 | 5° 8'19 6° 5'32 | 24°30 7 Ⅲ 34 | 0Ω 3 1°20 | 16°46 17°59 | 20°54 21°26 | 19°47 19°54 | 25°15 25°11 | 23°54 23°57 | 28°48 28°49 | 3°50 3°51 | 26°R53 26°53 | 25°20 25°17 | 3°29 3°36 | 27°47 27°54 | T 26 W27 |
| T 28 | 18 28 5 | 7° 2'45 | 20°25 | 2°34 | 17 39 19°12 | 21°59 | 19 34 20° 1 | 25° 7 | 23° 37 24° 1 | 28°49 | 3°53 | 26°51 | 25°14 | 3°43 | 27 34 28° 1 | T 28 |
| F 29 | 18 32 2 | 7°59'57 | 39 5 | 3°46 | 20°25 | 21°31 | 20° 9 | 25° 3 | 24° 4 | 28°49 | 3°54 | 26°47 | 25°11 | 3°50 | 28° 8 | F 29 |
| S 30 | 18 35 58 | 8 9 57'10 | 15934 | $4\Omega 54$ | 21 II 38 | 23 m 4 | 20 m) 16 | 24 3 58 | 24 I 8 | 28 ¥ 49 | $3\Omega 56$ | 26M40 | 25 M 8 | 3 m 56 | 28915 | S 30 |
| | 22220 | , | | | | - 4 | | | | ~, / | | | | 2.4.20 | | |

Delta T = 15.62 sec

JULY 1696 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)f(| Ħ | Р | ß | ß | Ç | ę, | Day |
|------|----------|------------------|------------------|--------------|-----------------|----------------|----------------|----------------|-------|----------------|---------------|---------------|----------------|---------------|--------------|------|
| S 1 | 18 39 55 | 9954'22 | 27952 | 6 N 0 | 22 II 52 | 23 Mp 36 | 20 m 24 | 24°R54 | 24∏11 | 28°R49 | 3 Ω 58 | 26°R33 | 25 M 4 | 4M) 3 | 28922 | S 1 |
| M 2 | 18 43 52 | 10°51'35 | 10 N 1 | 7° 4 | 24° 5 | 24° 9 | 20°32 | 24 궁 50 | 24°15 | 28 米 49 | 3°59 | 26M25 | 25° 1 | 4°10 | 28°29 | M 2 |
| T 3 | 18 47 48 | 11°48'48 | 22° 1 | 8° 4 | 25°18 | 24°42 | 20°40 | 24°46 | 24°18 | 28°49 | 4° 1 | 26°17 | 24°58 | 4°17 | 28°37 | T 3 |
| W 4 | 18 51 45 | 12°46'00 | 3 m 55 | 9° 1 | 26°31 | 25°15 | 20°48 | 24°41 | 24°22 | 28°49 | 4° 2 | 26°10 | 24°55 | 4°23 | 28°44 | W 4 |
| T 5 | 18 55 41 | 13°43'12 | 15°47 | 9°54 | 27°44 | 25°48 | 20°56 | 24°37 | 24°25 | 28°48 | 4° 4 | 26° 5 | 24°52 | 4°30 | 28°51 | T 5 |
| F 6 | 18 59 38 | 14°40'25 | 27°39 | 10°45 | 28°57 | 26°22 | 21° 4 | 24°33 | 24°28 | 28°48 | 4° 6 | 26° 1 | 24°48 | 4°37 | 28°58 | F 6 |
| S 7 | 19 3 34 | 15°37'37 | 9 ≙ 37 | 11°32 | 09୍ତ11 | 26°55 | 21°12 | 24°28 | 24°32 | 28°48 | 4° 7 | 25°59 | 24°45 | 4°43 | 29° 5 | S 7 |
| S 8 | 19 731 | 16°34'50 | 21°45 | 12°16 | 1°24 | 27°29 | 21°21 | 24°24 | 24°35 | 28°48 | 4° 9 | 25°D59 | 24°42 | 4°50 | 29°13 | S 8 |
| M 9 | 19 11 27 | 17°32'02 | 4 m , 7 | 12°55 | 2°37 | 28° 3 | 21°29 | 24°20 | 24°39 | 28°48 | 4°11 | 26° 0 | 24°39 | 4°57 | 29°20 | M 9 |
| T 10 | 19 15 24 | 18°29'15 | 16°49 | 13°31 | 3°51 | 28°37 | 21°38 | 24°15 | 24°42 | 28°47 | 4°12 | 26° 1 | 24°36 | 5° 4 | 29°27 | T 10 |
| W11 | 19 19 21 | 19°26'27 | 29°55 | 14° 3 | 5° 4 | 29°11 | 21°47 | 24°11 | 24°45 | 28°47 | 4°14 | 26°R 1 | 24°33 | 5°10 | 29°34 | W11 |
| T 12 | 19 23 17 | 20°23'40 | 13 × 28 | 14°31 | 6°17 | 29°45 | 21°55 | 24° 7 | 24°49 | 28°47 | 4°16 | 26° 0 | 24°29 | 5°17 | 29°42 | T 12 |
| F 13 | 19 27 14 | 21°20'53 | 27°27 | 14°54 | 7°31 | 0 ჲ 20 | 22° 4 | 24° 2 | 24°52 | 28°46 | 4°18 | 25°57 | 24°26 | 5°24 | 29°49 | F 13 |
| S 14 | 19 31 10 | 22°18'07 | 11 る 52 | 15°13 | 8°44 | 0°54 | 22°14 | 23°58 | 24°55 | 28°46 | 4°19 | 25°51 | 24°23 | 5°30 | 29°56 | S 14 |
| S 15 | 19 35 7 | 23°15'21 | 26°37 | 15°27 | 9°57 | 1°29 | 22°23 | 23°53 | 24°59 | 28°46 | 4°21 | 25°44 | 24°20 | 5°37 | 0 Ω 4 | S 15 |
| M16 | 19 39 3 | 24°12'35 | 11 ≈ 34 | 15°37 | 11°11 | 2° 3 | 22°32 | 23°49 | 25° 2 | 28°45 | 4°23 | 25°35 | 24°17 | 5°44 | 0°11 | M16 |
| T 17 | 19 43 0 | 25° 9'50 | 26°35 | 15°R42 | 12°24 | 2°38 | 22°41 | 23°44 | 25° 5 | 28°45 | 4°24 | 25°26 | 24°13 | 5°51 | 0°18 | T 17 |
| W18 | 19 46 56 | 26° 7'06 | 11) (30 | 15°41 | 13°38 | 3°13 | 22°51 | 23°40 | 25° 8 | 28°44 | 4°26 | 25°19 | 24°10 | 5°57 | 0°26 | W18 |
| T 19 | 19 50 53 | 27° 4'23 | 26°11 | 15°36 | 14°51 | 3°48 | 23° 0 | 23°36 | 25°11 | 28°43 | 4°28 | 25°13 | 24° 7 | 6° 4 | 0°33 | T 19 |
| F 20 | 19 54 50 | 28° 1'40 | 10 Y 32 | 15°26 | 16° 5 | 4°24 | 23°10 | 23°31 | 25°15 | 28°43 | 4°30 | 25°10 | 24° 4 | 6°11 | 0°40 | F 20 |
| S 21 | 19 58 46 | 28°58'59 | 24°33 | 15°11 | 17°19 | 4°59 | 23°20 | 23°27 | 25°18 | 28°42 | 4°31 | 25°D 9 | 24° 1 | 6°17 | 0°48 | S 21 |
| S 22 | 20 2 43 | 29°56'18 | 8 8 12 | 14°51 | 18°32 | 5°34 | 23°30 | 23°22 | 25°21 | 28°42 | 4°33 | 25° 9 | 23°58 | 6°24 | 0°55 | S 22 |
| M23 | 20 6 39 | 0 ん 53'39 | 21°31 | 14°26 | 19°46 | 6°10 | 23°40 | 23°18 | 25°24 | 28°41 | 4°35 | 25°R 9 | 23°54 | 6°31 | 1° 2 | M23 |
| T 24 | 20 10 36 | 1°51'01 | 4 Ⅲ 32 | 13°57 | 21° 0 | 6°46 | 23°50 | 23°14 | 25°27 | 28°40 | 4°37 | 25° 9 | 23°51 | 6°38 | 1°10 | T 24 |
| W25 | 20 14 32 | 2°48'23 | 17°18 | 13°24 | 22°13 | 7°21 | 24° 0 | 23° 9 | 25°30 | 28°39 | 4°38 | 25° 7 | 23°48 | 6°44 | 1°17 | W25 |
| T 26 | 20 18 29 | 3°45'47 | 29°52 | 12°47 | 23°27 | 7°57 | 24°10 | 23° 5 | 25°33 | 28°39 | 4°40 | 25° 2 | 23°45 | 6°51 | 1°25 | T 26 |
| F 27 | 20 22 25 | 4°43'12 | 129516 | 12° 6 | 24°41 | 8°34 | 24°20 | 23° 1 | 25°36 | 28°38 | 4°42 | 24°55 | 23°42 | 6°58 | 1°32 | F 27 |
| S 28 | 20 26 22 | 5°40'38 | 24°31 | 11°24 | 25°54 | 9°10 | 24°31 | 22°56 | 25°39 | 28°37 | 4°44 | 24°45 | 23°39 | 7° 5 | 1°39 | S 28 |
| S 29 | 20 30 19 | 6°38'05 | 6 Ω 38 | 10°39 | 27° 8 | 9°46 | 24°41 | 22°52 | 25°42 | 28°36 | 4°45 | 24°33 | 23°35 | 7°11 | 1°47 | S 29 |
| M30 | 20 34 15 | 7°35'32 | 18°39 | 9°53 | 28°22 | 10°22 | 24°52 | 22°48 | 25°45 | 28°35 | 4°47 | 24°20 | 23°32 | 7°18 | 1°54 | M30 |
| T 31 | 20 38 12 | 8 Ω 33'01 | 0 m 35 | 9Ω 6 | 29936 | 10 ♀ 59 | 25 Mp 2 | 22 궁 44 | 25∏48 | 28 米 34 | 4 Ω 49 | 24 m 7 | 23 M 29 | 7 m 25 | 2 N 2 | T 31 |

Delta T = 15.59 sec

Greg. Calendar

AUGUST 1696 GC 00:00 UT

| Day | Sid.t | 0 |) | Ϋ́ | φ | ₹ S | 4 | ħ | ᡟ | ¥ | Р | ß | S | Ç | ę, | Day |
|------|----------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|---------------|-----------------|-----------------|----------------|---------------|------|
| W 1 | 20 42 8 | 9 Ω 30'30 | 12 m 27 | 8°R20 | 0 Ω 50 | 11 ≏ 36 | 25 m 13 | 22°R39 | 25Ⅲ50 | 28°R34 | 4 Ω 51 | 23°R55 | 23M26 | 7 m /31 | 2 N 9 | W 1 |
| T 2 | 20 46 5 | 10°28'01 | 24°17 | 7 Ω 35 | 2° 4 | 12°12 | 25°24 | 22 궁 35 | 25°53 | 28 米 33 | 4°52 | 23 M .46 | 23°23 | 7°38 | 2°16 | T 2 |
| F 3 | 20 50 1 | 11°25'32 | 6 ₽ 8 | 6°53 | 3°18 | 12°49 | 25°35 | 22°31 | 25°56 | 28°32 | 4°54 | 23°38 | 23°19 | 7°45 | 2°24 | F 3 |
| S 4 | 20 53 58 | 12°23'04 | 18° 5 | 6°13 | 4°32 | 13°26 | 25°46 | 22°27 | 25°59 | 28°31 | 4°56 | 23°34 | 23°16 | 7°52 | 2°31 | S 4 |
| S 5 | 20 57 54 | 13°20'37 | 0 M 10 | 5°38 | 5°46 | 14° 3 | 25°56 | 22°23 | 26° 1 | 28°30 | 4°58 | 23°32 | 23°13 | 7°58 | 2°38 | S 5 |
| M 6 | 21 151 | 14°18'11 | 12°29 | 5° 6 | 7° 0 | 14°40 | 26° 8 | 22°19 | 26° 4 | 28°28 | 4°59 | 23°D31 | 23°10 | 8° 5 | 2°46 | M 6 |
| T 7 | 21 5 48 | 15°15'46 | 25° 8 | 4°41 | 8°14 | 15°18 | 26°19 | 22°15 | 26° 7 | 28°27 | 5° 1 | 23°R31 | 23° 7 | 8°12 | 2°53 | T 7 |
| W 8 | 21 9 44 | 16°13'22 | 8 才 10 | 4°21 | 9°28 | 15°55 | 26°30 | 22°11 | 26° 9 | 28°26 | 5° 3 | 23°31 | 23° 4 | 8°18 | 3° 0 | W 8 |
| T 9 | 21 13 41 | 17°10'58 | 2 <u>1°</u> 40 | 4° 7 | 10°42 | 16°33 | 26°41 | 22° 8 | 26°12 | 28°25 | 5° 5 | 23°28 | 23° 0 | 8°25 | 3°8 | T 9 |
| F 10 | 21 17 37 | 18° 8'36 | 5 る 39 | 4°D 0 | 11°56 | 17°10 | 26°52 | 22° 4 | 26°14 | 28°24 | 5° 6 | 23°24 | 22°57 | 8°32 | 3°15 | F 10 |
| S 11 | 21 21 34 | 19° 6'15 | 20° 7 | 4° 0 | 13°10 | 17°48 | 27° 4 | 22° 0 | 26°17 | 28°23 | 5° 8 | 23°17 | 22°54 | 8°39 | 3°22 | S 11 |
| S 12 | 21 25 30 | 20° 3'55 | 5≈ 1 | 4° 7 | 14°24 | 18°26 | 27°15 | 21°56 | 26°19 | 28°22 | 5°10 | 23° 8 | 22°51 | 8°45 | 3°29 | S 12 |
| M13 | 21 29 27 | 21° 1'36 | 20°11 | 4°22 | 15°38 | 19° 4 | 27°27 | 21°53 | 26°22 | 28°20 | 5°11 | 22°57 | 22°48 | 8°52 | 3°37 | M13 |
| T 14 | 21 33 23 | 21°59'19 | 5 米 29 | 4°44 | 16°52 | 19°42 | 27°38 | 21°49 | 26°24 | 28°19 | 5°13 | 22°46 | 22°45 | 8°59 | 3°44 | T 14 |
| W15 | 21 37 20 | 22°57'03 | 20°42 | 5°14 | 18° 6 | 20°20 | 27°50 | 21°46 | 26°26 | 28°18 | 5°15 | 22°36 | 22°41 | 9° 5 | 3°51 | W15 |
| T 16 | 21 41 17 | 23°54'48 | 5 Ƴ 40 | 5°51 | 19°21 | 20°58 | 28° 2 | 21°42 | 26°29 | 28°17 | 5°16 | 22°29 | 22°38 | 9°12 | 3°58 | T 16 |
| F 17 | 21 45 13 | 24°52'36 | 20°15 | 6°36 | 20°35 | 21°36 | 28°13 | 21°39 | 26°31 | 28°15 | 5°18 | 22°24 | 22°35 | 9°19 | 4° 5 | F 17 |
| S 18 | 21 49 10 | 25°50'24 | 4 8 25 | 7°27 | 21°49 | 22°15 | 28°25 | 21°36 | 26°33 | 28°14 | 5°20 | 22°22 | 22°32 | 9°26 | 4°12 | S 18 |
| S 19 | 21 53 6 | 26°48'15 | 18° 8 | 8°26 | 23° 3 | 22°53 | 28°37 | 21°33 | 26°35 | 28°13 | 5°21 | 22°21 | 22°29 | 9°32 | 4°20 | S 19 |
| M20 | 21 57 3 | 27°46'08 | 1 Ⅲ 26 | 9°31 | 24°18 | 23°32 | 28°49 | 21°29 | 26°38 | 28°11 | 5°23 | 22°21 | 22°25 | 9°39 | 4°27 | M20 |
| T 21 | 22 0 59 | 28°44'02 | 14°22 | 10°43 | 25°32 | 24°10 | 29° 1 | 21°26 | 26°40 | 28°10 | 5°25 | 22°20 | 22°22 | 9°46 | 4°34 | T 21 |
| W22 | 22 4 56 | 29°41'58 | 26°59 | 12° 1 | 26°46 | 24°49 | 29°13 | 21°23 | 26°42 | 28° 8 | 5°26 | 22°18 | 22°19 | 9°52 | 4°41 | W22 |
| T 23 | 22 8 52 | 0 m 39'57 | 9 9 23 | 13°24 | 28° 1 | 25°28 | 29°25 | 21°20 | 26°44 | 28° 7 | 5°28 | 22°13 | 22°16 | 9°59 | 4°48 | T 23 |
| F 24 | 22 12 49 | 1°37'56 | 21°35 | 14°52 | 29°15 | 26° 7 | 29°37 | 21°18 | 26°46 | 28° 6 | 5°30 | 22° 5 | 22°13 | 10° 6 | 4°55 | F 24 |
| S 25 | 22 16 46 | 2°35'58 | 3 Ω 40 | 16°26 | 0 m 29 | 26°46 | 29°49 | 21°15 | 26°48 | 28° 4 | 5°31 | 21°55 | 22°10 | 10°13 | 5° 2 | S 25 |
| S 26 | 22 20 42 | 3°34'01 | 15°39 | 18° 3 | 1°44 | 27°25 | 0 ₽ 2 | 21°12 | 26°50 | 28° 3 | 5°33 | 21°43 | 22° 6 | 10°19 | 5° 9 | S 26 |
| M27 | 22 24 39 | 4°32'06 | 27°34 | 19°44 | 2°58 | 28° 4 | 0°14 | 21° 9 | 26°51 | 28° 1 | 5°34 | 21°29 | 22° 3 | 10°26 | 5°15 | M27 |
| T 28 | 22 28 35 | 5°30'13 | 9 m 26 | 21°28 | 4°13 | 28°44 | 0°26 | 21° 7 | 26°53 | 28° 0 | 5°36 | 21°15 | 22° 0 | 10°33 | 5°22 | T 28 |
| W29 | 22 32 32 | 6°28'21 | 21°17 | 23°16 | 5°27 | 29°23 | 0°38 | 21° 4 | 26°55 | 27°58 | 5°37 | 21° 3 | 21°57 | 10°40 | 5°29 | W29 |
| T 30 | 22 36 28 | 7°26'32 | 3 ₾ 8 | 25° 5 | 6°42 | 0 m 3 | 0°51 | 2 <u>1°</u> 2 | 26°57 | 27°57 | 5°39 | 20°52 | 21°54 | 10°46 | 5°36 | T 30 |
| F 31 | 22 40 25 | 8 Mp 24'43 | 15 ♀ 2 | 26 Ω 56 | 7 m)56 | 0 M .42 | 1 ₾ 3 | 21る 0 | 26耳58 | 27 米 55 | 5 Ω 40 | 20 M 44 | 21 M .51 | 10 m 53 | 5 Ω 43 | F 31 |

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SEPTEMBER 1696 GC 00:00 UT

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|--------------|----------------------|----------------------|-------------------------|----------------|----------------|----------------|---------------|----------------|-----------------|----------------|---------------|-----------------|----------------|----------------|---------------|--------------|
| S 1 | 22 44 21 | 9 m 22'56 | 27 ♀ 1 | 28 Ω 49 | 9 m)11 | 1 M 22 | 1 ≏ 16 | 20°R58 | 27 I I 0 | 27°R54 | 5 Ω 42 | 20°R39 | 21 M 47 | 11 Mp 0 | 5 Ω 49 | S 1 |
| S 2 | 22 48 18 | 10°21'11 | 9 M 8 | 0 m 43 | 10°25 | 2° 2 | 1°28 | 20 ට 55 | 27° 1 | 27 ∺ 52 | 5°43 | 20 M 37 | 21°44 | 11° 6 | 5°56 | S 2 |
| M 3 | 22 52 14 | 11°19'28 | 21°28 | 2°37 | 11°40 | 2°42 | 1°41 | 20°53 | 27° 3 | 27°50 | 5°45 | 20°D36 | 21°41 | 11°13 | 6° 2 | M 3 |
| T 4 W 5 | 22 56 11 | 12°17'46 | 4 √ 4 | 4°32 | 12°54 | 3°22 4° 2 | 1°53 | 20°51 | 27° 4 | 27°49 27°47 | 5°46 | 20°37 | 21°38 | 11°20 | 6° 9 | T 4 W 5 |
| W 5 T 6 | 23 0 8 23 4 4 | 13°16'05 14°14'27 | 17°2 0 る 25 | 6°27 8°22 | 14° 9 15°24 | 4° 2 4°42 | 2° 6 2°18 | 20°50 20°48 | 27° 6 27° 7 | 27°47 27°46 | 5°48 5°49 | 20°R37 20°36 | 21°35 21°31 | 11°27 11°33 | 6°16 6°22 | W 5 T 6 |
| F 7 | 23 4 4 | 15°12'49 | 14°17 | 10°17 | 16°38 | 5°23 | 2°31 | 20°46 | 27° 9 | 27°44 | 5°51 | 20°33 | 21°28 | 11°40 | 6°29 | F 7 |
| S 8 | 23 11 57 | 16°11'14 | 28°37 | 12°11 | 17°53 | 6° 3 | 2°44 | 20°45 | 27°10 | 27°42 | 5°52 | 20°27 | 21°25 | 11°47 | 6°35 | S 8 |
| S 9 | 23 15 54 | 17° 9'40 | 13≈24 | 14° 5 | 19°8 | 6°43 | 2°56 | 20°43 | 27°11 | 27°41 | 5°54 | 20°19 | 21°22 | 11°53 | 6°41 | S 9 |
| M10 | 23 19 50 | 18° 8'07 | 28°31 | 15°58 | 20°22 | 7°24 | 3° 9 | 20°42 | 27°12 | 27°39 | 5°55 | 20°10 | 21°19 | 12° 0 | 6°48 | M10 |
| T 11 | 23 23 47 | 19° 6'36 | 13) (49 | 17°50 | 21°37 | 8° 4 | 3°22 | 20°40 | 27°13 | 27°38 | 5°56 | 20° 1 | 21°16 | 12° 7 | 6°54 | T 11 |
| W12 | 23 27 43 | 20° 5'07 | 29° 7 14 Y 14 | 19°42 21°32 | 22°51 | 8°45 | 3°35 | 20°39 | 27°14 | 27°36 | 5°58 | 19°53 | 21°12 | 12°14 | 7° 0 7° 6 | W12 |
| T 13 F 14 | 23 31 40 23 35 37 | 21° 3'41 22° 2'16 | 29° 0 | 21°32 23°22 | 24° 6 25°21 | 9°26 10° 7 | 3°47 4° 0 | 20°38 20°37 | 27°16 27°16 | 27°34 27°33 | 5°59 6° 0 | 19°47 19°43 | 21° 9 21° 6 | 12°20 12°27 | 7° 6 7°12 | T 13 F 14 |
| S 15 | 23 39 33 | 23° 0'53 | 13821 | 25°11 | 26°36 | 10°48 | 4°13 | 20°36 | 27°17 | 27°31 | 6° 2 | 19°D41 | 21° 3 | 12°34 | 7°18 | S 15 |
| S 16 | 23 43 30 | 23°59'33 | 27°13 | 26°58 | 27°50 | 11°29 | 4°26 | 20°35 | 27°18 | 27°29 | 6° 3 | 19°41 | 21° 0 | 12°40 | 7°24 | S 16 |
| M17 | 23 47 26 | 24°58'15 | 10耳37 | 28°45 | 29° 5 | 12°10 | 4°39 | 20°35 | 27°19 | 27°28 | 6° 4 | 19°42 | 20°56 | 12°47 | 7°30 | M17 |
| T 18 | 23 51 23 | 25°56'59 | 23°36 | 0 ჲ 31 | 0 ჲ 20 | 12°51 | 4°52 | 20°34 | 27°20 | 27°26 | 6° 5 | 19°R43 | 20°53 | 12°54 | 7°36 | T 18 |
| W19 | 23 55 19 | 26°55'46 | 6913 | 2°16 | 1°35 | 13°32 | 5° 4 | 20°33 | 27°21 | 27°24 | 6° 7 | 19°42 | 20°50 | 13° 0 | 7°42 | W19 |
| T 20 | 23 59 16 | 27°54'35 | 18°34 | 4° 0 | 2°49 | 14°14 | 5°17 | 20°33 | 27°21 | 27°23 | 6° 8 | 19°40 | 20°47 | 13° 7 | 7°48 | T 20 |
| F 21 S 22 | 0 3 12 0 7 9 | 28°53'26 29°52'19 | 0 Ω 42 12°41 | 5°43 7°25 | 4° 4 5°19 | 14°55 15°37 | 5°30 5°43 | 20°33 20°32 | 27°22 27°22 | 27°21 27°19 | 6° 9 6°10 | 19°35 19°29 | 20°44 20°41 | 13°14 13°21 | 7°53 7°59 | F 21 S 22 |
| | | | | | | | | | | | | | | | | |
| S 23 | 0 11 6 | 0₽51'14 | 24°35 | 9° 6 | 6°34 | 16°18 | 5°56 | 20°32 | 27°23 | 27°18 | 6°11 | 19°21 | 20°37 | 13°27 | 8° 5 | S 23 |
| M24 | 0 15 2 | 1°50'12 | 6M)27 | 10°46 | 7°48 9° 3 | 17° 0 17°42 | 6° 9 | 20°D32 | 27°23 | 27°16 27°14 | 6°12 | 19°11 19° 2 | 20°34 | 13°34 | 8°10 8°16 | M24 |
| T 25 W26 | 0 18 59 0 22 55 | 2°49'12 3°48'13 | 18°18 0 ≙ 11 | 12°25 14° 4 | 10°18 | 17°42 18°24 | 6°22 6°35 | 20°32 20°32 | 27°24 27°24 | 27°14 27°13 | 6°13 6°14 | 19° 2 18°54 | 20°31 20°28 | 13°41 13°47 | 8°16 8°21 | T 25 W26 |
| T 27 | 0 22 33 0 26 52 | 3 46 13 4°47'17 | 12° 8 | 15°41 | 10 18 11°33 | 18 24 19° 6 | 6°48 | 20°33 | 27°25 | 27°11 | 6°16 | 18°47 | 20°25 | 13°54 | 8°26 | T 27 |
| F 28 | 0 30 48 | 5°46'23 | 24° 9 | 17°18 | 12°48 | 19°48 | 7° 1 | 20°33 | 27°25 | 27° 9 | 6°17 | 18°42 | 20°22 | 14° 1 | 8°32 | F 28 |
| S 29 | 0 34 45 | 6°45'31 | 6 M .16 | 18°54 | 14° 3 | 20°30 | 7°14 | 20°33 | 27°25 | 27° 8 | 6°18 | 18°39 | 20°18 | 14° 8 | 8°37 | S 29 |
| S 30 | 0 38 41 | 7 ≙ 44'41 | 18 M 32 | 20 ჲ 29 | 15 ≙ 18 | 21 M 12 | 7 ≙ 27 | 20 ට 34 | 27 II 25 | 27 米 6 | 6 Ω 19 | 18°D38 | 20 M 15 | 14 m 14 | 8 Ω 42 | S 30 |

Delta T = 15.52 sec

Greg. Calendar

OCTOBER 1696 GC 00:00 UT

| Day | Sid.t | 0 | D | Ψ | φ | ♂ | 4 | ħ | ᡟ | ¥ | Р | Ŗ | Ω | Ç | ٧٥ | Day |
|------|---------|------------------|-----------------|----------------|----------------|----------------|---------------|----------------|-----------------|----------------|---------------|-----------------|-----------------|----------------|----------------|------|
| M 1 | 0 42 38 | 8 ≏ 43'53 | 1 √ 0 | 22 º 3 | 16 ≏ 32 | 21 M 54 | 7 ≙ 40 | 20 ට 35 | 27 Ⅱ 25 | 27°R 4 | 6 Ω 19 | 18 M .39 | 20 M 12 | 14 m 21 | 8 Ω 47 | M 1 |
| T 2 | 0 46 34 | 9°43'07 | 13°42 | 23°37 | 17°47 | 22°37 | 7°53 | 20°35 | 27°R25 | 27 米 3 | 6°20 | 18°40 | 20° 9 | 14°28 | 8°52 | T 2 |
| W 3 | 0 50 31 | 10°42'22 | 26°42 | 25° 9 | 19° 2 | 23°19 | 8° 6 | 20°36 | 27°25 | 27° 1 | 6°21 | 18°42 | 20° 6 | 14°34 | 8°57 | W 3 |
| T 4 | 0 54 28 | 11°41'39 | 10궁 2 | 26°41 | 20°17 | 24° 2 | 8°19 | 20°37 | 27°25 | 27° 0 | 6°22 | 18°R42 | 20° 2 | 14°41 | 9° 2 | T 4 |
| F 5 | 0 58 24 | 12°40'58 | 23°45 | 28°12 | 21°32 | 24°44 | 8°32 | 20°38 | 27°25 | 26°58 | 6°23 | 18°42 | 19°59 | 14°48 | 9° 6 | F 5 |
| S 6 | 1 2 21 | 13°40'19 | 7 ≈ 52 | 29°43 | 22°47 | 25°27 | 8°45 | 20°39 | 27°25 | 26°56 | 6°24 | 18°40 | 19°56 | 14°55 | 9°11 | S 6 |
| S 7 | 1 6 17 | 14°39'42 | 22°22 | 1 M _13 | 24° 2 | 26°10 | 8°58 | 20°41 | 27°25 | 26°55 | 6°25 | 18°36 | 19°53 | 15° 1 | 9°16 | S 7 |
| M 8 | 1 10 14 | 15°39'06 | 7) €12 | 2°42 | 25°16 | 26°53 | 9°11 | 20°42 | 27°24 | 26°53 | 6°26 | 18°32 | 19°50 | 15° 8 | 9°20 | M 8 |
| T 9 | 1 14 10 | 16°38'32 | 22°13 | 4°10 | 26°31 | 27°36 | 9°24 | 20°43 | 27°24 | 26°52 | 6°26 | 18°27 | 19°47 | 15°15 | 9°24 | T 9 |
| W10 | 1 18 7 | 17°38'00 | 7 Ƴ 19 | 5°37 | 27°46 | 28°18 | 9°37 | 20°45 | 27°24 | 26°50 | 6°27 | 18°23 | 19°43 | 15°21 | 9°29 | W10 |
| T 11 | 1 22 3 | 18°37'30 | 22°19 | 7° 4 | 29° 1 | 29° 2 | 9°50 | 20°47 | 27°23 | 26°49 | 6°28 | 18°19 | 19°40 | 15°28 | 9°33 | T 11 |
| F 12 | 1 26 0 | 19°37'02 | 7 8 5 | 8°30 | 0 M _16 | 29°45 | 10° 3 | 20°48 | 27°23 | 26°47 | 6°28 | 18°18 | 19°37 | 15°35 | 9°37 | F 12 |
| S 13 | 1 29 57 | 20°36'36 | 21°29 | 9°55 | 1°31 | 0 ∡ 728 | 10°16 | 20°50 | 27°22 | 26°46 | 6°29 | 18°D17 | 19°34 | 15°42 | 9°41 | S 13 |
| S 14 | 1 33 53 | 21°36'12 | 5 Ⅱ 27 | 11°19 | 2°46 | 1°11 | 10°28 | 20°52 | 27°22 | 26°44 | 6°30 | 18°18 | 19°31 | 15°48 | 9°45 | S 14 |
| M15 | 1 37 50 | 22°35'51 | 18°59 | 12°43 | 4° 1 | 1°54 | 10°41 | 20°54 | 27°21 | 26°43 | 6°30 | 18°20 | 19°27 | 15°55 | 9°49 | M15 |
| T 16 | 1 41 46 | 23°35'32 | 295 5 | 14° 5 | 5°16 | 2°38 | 10°54 | 20°56 | 27°20 | 26°41 | 6°31 | 18°21 | 19°24 | 16° 2 | 9°53 | T 16 |
| W17 | 1 45 43 | 24°35'15 | 14°47 | 15°27 | 6°30 | 3°21 | 11° 7 | 20°58 | 27°19 | 26°40 | 6°32 | 18°22 | 19°21 | 16° 8 | 9°57 | W17 |
| T 18 | 1 49 39 | 25°35'01 | 27°11 | 16°47 | 7°45 | 4° 5 | 11°20 | 21° 1 | 27°19 | 26°38 | 6°32 | 18°R23 | 19°18 | 16°15 | 10° 1 | T 18 |
| F 19 | 1 53 36 | 26°34'48 | 9 Ω 20 | 18° 6 | 9° 0 | 4°48 | 11°33 | 21° 3 | 27°18 | 26°37 | 6°33 | 18°22 | 19°15 | 16°22 | 10° 4 | F 19 |
| S 20 | 1 57 32 | 27°34'38 | 21°18 | 19°25 | 10°15 | 5°32 | 11°45 | 21° 6 | 27°17 | 26°36 | 6°33 | 18°20 | 19°12 | 16°28 | 10° 8 | S 20 |
| S 21 | 2 1 29 | 28°34'30 | 3 m) 11 | 20°42 | 11°30 | 6°16 | 11°58 | 21° 8 | 27°16 | 26°34 | 6°34 | 18°18 | 19°8 | 16°35 | 10°11 | S 21 |
| M22 | 2 5 26 | 29°34'25 | 15° 1 | 21°57 | 12°45 | 7° 0 | 12°11 | 21°11 | 27°15 | 26°33 | 6°34 | 18°15 | 19° 5 | 16°42 | 10°14 | M22 |
| T 23 | 2 9 22 | 0MJ34'21 | 26°54 | 23°12 | 14° 0 | 7°44 | 12°23 | 21°14 | 27°14 | 26°32 | 6°34 | 18°12 | 19° 2 | 16°49 | 10°18 | T 23 |
| W24 | 2 13 19 | 1°34'20 | 8 ≏ 51 | 24°24 | 15°15 | 8°28 | 12°36 | 21°17 | 27°13 | 26°30 | 6°35 | 18° 9 | 18°59 | 16°55 | 10°21 | W24 |
| T 25 | 2 17 15 | 2°34'20 | 20°54 | 25°35 | 16°30 | 9°12 | 12°49 | 21°20 | 27°12 | 26°29 | 6°35 | 18° 7 | 18°56 | 17° 2 | 10°24 | T 25 |
| F 26 | 2 21 12 | 3°34'22 | 3M 6 | 26°44 | 17°45 | 9°56 | 13° 1 | 21°23 | 27°10 | 26°28 | 6°35 | 18° 6 | 18°53 | 17° 9 | 10°27 | F 26 |
| S 27 | 2 25 8 | 4°34'27 | 15°28 | 27°50 | 19° 0 | 10°40 | 13°14 | 21°26 | 27° 9 | 26°27 | 6°36 | 18°D 5 | 18°49 | 17°15 | 10°30 | S 27 |
| S 28 | 2 29 5 | 5°34'33 | 28° 1 | 28°54 | 20°15 | 11°24 | 13°26 | 21°29 | 27° 8 | 26°25 | 6°36 | 18° 5 | 18°46 | 17°22 | 10°32 | S 28 |
| M29 | 2 33 1 | 6°34'41 | 10 ∡ 145 | 29°56 | 21°30 | 12° 9 | 13°39 | 21°32 | 27° 7 | 26°24 | 6°36 | 18° 6 | 18°43 | 17°29 | 10°35 | M29 |
| T 30 | 2 36 58 | 7°34'51 | 23°43 | 0 才 54 | 22°44 | 12°53 | 13°51 | 21°36 | 27° 5 | 26°23 | 6°37 | 18° 7 | 18°40 | 17°36 | 10°38 | T 30 |
| W31 | 2 40 55 | 8M35'02 | 6 පි 56 | 1 才 50 | 23M59 | 13 ∡ 37 | 14 ♀ 4 | 21 궁 39 | 27 I I 4 | 26 米 22 | 6 Ω 37 | 18 M 8 | 18 M .37 | 17 m 42 | 10 Ω 40 | W31 |

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NOVEMBER 1696 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q. | ď | 4 | ħ |)ұ(| ¥ | Р | ₽. | v | ţ | Q K | Day |
|------|---------|-------------------|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|-----------------|-----------------|----------------|------|
| T 1 | 2 44 51 | 9 M 35'15 | 20중23 | 2 ₹ 41 | 25 M 14 | 14 × 22 | 14 ₽ 16 | 21 궁 43 | 27°R 2 | 26°R21 | 6 Ω 37 | 18 M 9 | 18 M .33 | 17 m)49 | 10 Ω 42 | T 1 |
| F 2 | 2 48 48 | 10°35'30 | 4≈ 6 | 3°28 | 26°29 | 15° 7 | 14°28 | 21°46 | 27 I 1 | 26 ∺ 20 | 6°37 | 18° 9 | 18°30 | 17°56 | 10°45 | F 2 |
| S 3 | 2 52 44 | 11°35'46 | 18° 5 | 4°10 | 27°44 | 15°51 | 14°41 | 21°50 | 26°59 | 26°19 | 6°37 | 18°R 9 | 18°27 | 18° 2 | 10°47 | S 3 |
| S 4 | 2 56 41 | 12°36'03 | 2) 19 | 4°47 | 28°59 | 16°36 | 14°53 | 21°54 | 26°58 | 26°18 | 6°37 | 18° 9 | 18°24 | 18° 9 | 10°49 | S 4 |
| M 5 | 3 0 37 | 13°36'22 | 16°46 | 5°18 | 0 才 14 | 17°21 | 15° 5 | 21°58 | 26°56 | 26°17 | 6°37 | 18° 8 | 18°21 | 18°16 | 10°51 | M 5 |
| T 6 | 3 4 34 | 14°36'42 | 1 Υ 22 | 5°43 | 1°29 | 18° 5 | 15°17 | 22° 2 | 26°54 | 26°16 | 6°R37 | 18° 8 | 18°18 | 18°22 | 10°53 | T 6 |
| W 7 | 3 8 30 | 15°37'03 | 16° 2 | 6° 0 | 2°44 | 18°50 | 15°29 | 22° 6 | 26°53 | 26°15 | 6°37 | 18° 8 | 18°14 | 18°29 | 10°54 | W 7 |
| T 8 | 3 12 27 | 16°37'26 | 0 8 39 | 6°10 | 3°59 | 19°35 | 15°41 | 22°10 | 26°51 | 26°14 | 6°37 | 18° 7 | 18°11 | 18°36 | 10°56 | T 8 |
| F 9 | 3 16 24 | 17°37'51 | 15° 8 | 6°R10 | 5°13 | 20°20 | 15°53 | 22°14 | 26°49 | 26°13 | 6°37 | 18° 7 | 18° 8 | 18°43 | 10°58 | F 9 |
| S 10 | 3 20 20 | 18°38'18 | 29°22 | 6° 1 | 6°28 | 21° 5 | 16° 5 | 22°19 | 26°47 | 26°12 | 6°37 | 18° 7 | 18° 5 | 18°49 | 10°59 | S 10 |
| S 11 | 3 24 17 | 19°38'46 | 13耳16 | 5°43 | 7°43 | 21°50 | 16°17 | 22°23 | 26°45 | 26°11 | 6°37 | 18° 7 | 18° 2 | 18°56 | 11° 0 | S 11 |
| M12 | 3 28 13 | 20°39'15 | 26°49 | 5°14 | 8°58 | 22°36 | 16°29 | 22°28 | 26°44 | 26°10 | 6°37 | 18° 7 | 17°59 | 19° 3 | 11° 2 | M12 |
| T 13 | 3 32 10 | 21°39'47 | 9 95 58 | 4°35 | 10°13 | 23°21 | 16°41 | 22°32 | 26°42 | 26°10 | 6°37 | 18° 7 | 17°55 | 19° 9 | 11° 3 | T 13 |
| W14 | 3 36 6 | 22°40'20 | 22°45 | 3°45 | 11°28 | 24° 6 | 16°53 | 22°37 | 26°40 | 26° 9 | 6°36 | 18° 6 | 17°52 | 19°16 | 11° 4 | W14 |
| T 15 | 3 40 3 | 23°40'55 | 5 Ω 13 | 2°46 | 12°43 | 24°52 | 17° 4 | 22°41 | 26°38 | 26° 8 | 6°36 | 18° 6 | 17°49 | 19°23 | 11° 5 | T 15 |
| F 16 | 3 43 59 | 24°41'32 | 17°25 | 1°38 | 13°58 | 25°37 | 17°16 | 22°46 | 26°36 | 26° 7 | 6°36 | 18° 5 | 17°46 | 19°30 | 11° 5 | F 16 |
| S 17 | 3 47 56 | 25°42'10 | 29°25 | 0°23 | 15°12 | 26°22 | 17°27 | 22°51 | 26°33 | 26° 7 | 6°36 | 18°D 5 | 17°43 | 19°36 | 11° 6 | S 17 |
| S 18 | 3 51 53 | 26°42'50 | 11 M)18 | 29 M 4 | 16°27 | 27° 8 | 17°39 | 22°56 | 26°31 | 26° 6 | 6°35 | 18° 6 | 17°39 | 19°43 | 11° 7 | S 18 |
| M19 | 3 55 49 | 27°43'32 | 23° 9 | 27°42 | 17°42 | 27°54 | 17°50 | 23° 1 | 26°29 | 26° 5 | 6°35 | 18° 6 | 17°36 | 19°50 | 11° 7 | M19 |
| T 20 | 3 59 46 | 28°44'15 | 5 ♀ 2 | 26°20 | 18°57 | 28°39 | 18° 2 | 23° 6 | 26°27 | 26° 5 | 6°35 | 18° 7 | 17°33 | 19°56 | 11° 7 | T 20 |
| W21 | 4 3 42 | 29°45'00 | 17° 2 | 25° 2 | 20°12 | 29°25 | 18°13 | 23°11 | 26°25 | 26° 4 | 6°34 | 18° 9 | 17°30 | 20° 3 | 11° 8 | W21 |
| T 22 | 4 7 39 | 0 ∡ 145'47 | 29°12 | 23°49 | 21°27 | 0 궁 11 | 18°24 | 23°16 | 26°23 | 26° 4 | 6°34 | 18°10 | 17°27 | 20°10 | 11° 8 | T 22 |
| F 23 | 4 11 35 | 1°46'35 | 11 M .34 | 22°44 | 22°42 | 0°56 | 18°35 | 23°21 | 26°20 | 26° 3 | 6°34 | 18°10 | 17°24 | 20°16 | 11°R 8 | F 23 |
| S 24 | 4 15 32 | 2°47'24 | 24°12 | 21°49 | 23°56 | 1°42 | 18°46 | 23°27 | 26°18 | 26° 3 | 6°33 | 18°R10 | 17°20 | 20°23 | 11° 8 | S 24 |
| S 25 | 4 19 28 | 3°48'14 | 7 ,₹ 1 4 | 21° 5 | 25°11 | 2°28 | 18°57 | 23°32 | 26°16 | 26° 3 | 6°33 | 18° 9 | 17°17 | 20°30 | 11°8 | S 25 |
| M26 | 4 23 25 | 4°49'06 | 20°13 | 20°32 | 26°26 | 3°14 | 19° 8 | 23°37 | 26°13 | 26° 2 | 6°32 | 18° 8 | 17°14 | 20°37 | 11° 7 | M26 |
| T 27 | 4 27 22 | 5°49'59 | 3 る 36 | 20°10 | 27°41 | 4° 0 | 19°19 | 23°43 | 26°11 | 26° 2 | 6°32 | 18° 6 | 17°11 | 20°43 | 11° 7 | T 27 |
| W28 | 4 31 18 | 6°50'53 | 17°12 | 20°D 0 | 28°56 | 4°46 | 19°29 | 23°49 | 26° 9 | 26° 2 | 6°31 | 18° 3 | 17° 8 | 20°50 | 11° 6 | W28 |
| T 29 | 4 35 15 | 7°51'48 | 1≈ 0 | 20° 1 | 0 조 11 | <u>5°32</u> | 19°40 | 2 <u>3</u> °54 | 26° 6 | 26° 1 | 6°30 | 18° 0 | 17° 5 | 20°57 | 11° 6 | T 29 |
| F 30 | 4 39 11 | 8 ≯ 52'43 | 14≈56 | 20 M 12 | 1 る 25 | 6 ਰ 18 | 19 ≏ 51 | 24 る 0 | 26Ⅱ 4 | 26 米 1 | 6 Ω 30 | 17 M 58 | 17 M 1 | 21 mg 3 | 11 0 5 | F 30 |

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Greg. Calendar

| DECEMBER 1696 GC | 00:00 UT |
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| DECEMBER 1090 GC | 00:00 01 |

| Day | Sid.t | 0 | D | ğ | Q | δ | 4 | ħ |)ұ(| ¥ | Р | ß | Ω | Ç | , k | Day |
|------|---------|-------------------|-----------------|-----------------|----------------|-------|----------------|----------------|--------|----------------|---------------|----------------|-----------------|-----------------|---------------|------|
| S 1 | 4 43 8 | 9 ∡ 153'39 | 28≈59 | 20 M 32 | 2 ප් 40 | 7중 5 | 20₾ 1 | 24궁 6 | 26°R 1 | 26°R 1 | 6°R29 | 17°R56 | 16 M .58 | 21 m 10 | 11°R 4 | S 1 |
| S 2 | 4 47 4 | 10°54'36 | 13) 7 | 21° 0 | 3°55 | 7°51 | 20°11 | 24°11 | 25耳59 | 26) 1 | 6 Ω 29 | 17°D56 | 16°55 | 21°17 | 11 Q 3 | S 2 |
| M 3 | 4 51 1 | 11°55'34 | 27°19 | 21°37 | 5°10 | 8°37 | 20°22 | 24°17 | 25°57 | 26° 1 | 6°28 | 17 M 57 | 16°52 | 21°23 | 11° 2 | M 3 |
| T 4 | 4 54 57 | 12°56'32 | 11 Y 31 | 22°19 | 6°24 | 9°23 | 20°32 | 24°23 | 25°54 | 26° 0 | 6°27 | 17°58 | 16°49 | 21°30 | 11° 1 | T 4 |
| W 5 | 4 58 54 | 13°57'31 | 25°42 | 23° 8 | 7°39 | 10°10 | 20°42 | 24°29 | 25°52 | 26° 0 | 6°26 | 18° 0 | 16°45 | 21°37 | 11° 0 | W 5 |
| T 6 | 5 2 51 | 14°58'30 | 9 8 50 | 24° 3 | 8°54 | 10°56 | 20°52 | 24°35 | 25°49 | 26°D 0 | 6°26 | 18° 1 | 16°42 | 21°44 | 10°59 | T 6 |
| F 7 | 5 6 47 | 15°59'30 | 23°51 | 25° 1 | 10° 9 | 11°42 | 21° 2 | 24°41 | 25°47 | 26° 0 | 6°25 | 18°R 1 | 16°39 | 21°50 | 10°57 | F 7 |
| S 8 | 5 10 44 | 17° 0'31 | 7 Ⅱ 42 | 26° 4 | 11°23 | 12°29 | 21°12 | 24°47 | 25°44 | 26° 0 | 6°24 | 17°59 | 16°36 | 21°57 | 10°56 | S 8 |
| S 9 | 5 14 40 | 18° 1'33 | 21°19 | 27°11 | 12°38 | 13°15 | 21°21 | 24°53 | 25°41 | 26° 0 | 6°23 | 17°56 | 16°33 | 22° 4 | 10°54 | S 9 |
| M10 | 5 18 37 | 19° 2'35 | 49541 | 28°20 | 13°53 | 14° 2 | 21°31 | 24°59 | 25°39 | 26° 1 | 6°22 | 17°52 | 16°30 | 22°10 | 10°52 | M10 |
| T 11 | 5 22 33 | 20° 3'38 | 17°45 | 29°32 | 15° 7 | 14°49 | 21°40 | 25° 6 | 25°36 | 26° 1 | 6°22 | 17°47 | 16°26 | 22°17 | 10°50 | T 11 |
| W12 | 5 26 30 | 21° 4'42 | 0 Ω 31 | 0 ∡ 747 | 16°22 | 15°35 | 21°50 | 25°12 | 25°34 | 26° 1 | 6°21 | 17°41 | 16°23 | 22°24 | 10°48 | W12 |
| T 13 | 5 30 26 | 22° 5'47 | 12°59 | 2° 3 | 17°37 | 16°22 | 21°59 | 25°18 | 25°31 | 26° 1 | 6°20 | 17°35 | 16°20 | 22°30 | 10°46 | T 13 |
| F 14 | 5 34 23 | 23° 6'52 | 25°12 | 3°22 | 18°51 | 17° 9 | 22° 8 | 25°25 | 25°29 | 26° 1 | 6°19 | 17°30 | 16°17 | 22°37 | 10°44 | F 14 |
| S 15 | 5 38 20 | 24° 7'59 | 7 m) 13 | 4°42 | 20° 6 | 17°55 | 22°17 | 25°31 | 25°26 | 26° 2 | 6°18 | 17°27 | 16°14 | 22°44 | 10°42 | S 15 |
| S 16 | 5 42 16 | 25° 9'05 | 19° 6 | 6° 3 | 21°20 | 18°42 | 22°26 | 25°37 | 25°23 | 26° 2 | 6°17 | 17°25 | 16°11 | 22°50 | 10°40 | S 16 |
| M17 | 5 46 13 | 26°10'13 | 0 ჲ 57 | 7°25 | 22°35 | 19°29 | 22°35 | 25°44 | 25°21 | 26° 2 | 6°16 | 17°D25 | 16° 7 | 22°57 | 10°37 | M17 |
| T 18 | 5 50 9 | 27°11'21 | 12°49 | 8°49 | 23°50 | 20°16 | 22°44 | 25°50 | 25°18 | 26° 3 | 6°15 | 17°26 | 16° 4 | 23° 4 | 10°35 | T 18 |
| W19 | 5 54 6 | 28°12'30 | 24°49 | 10°13 | 25° 4 | 21° 3 | 22°52 | 25°57 | 25°16 | 26° 3 | 6°14 | 17°28 | 16° 1 | 23°11 | 10°32 | W19 |
| T 20 | 5 58 2 | 29°13'40 | 7 m 1 | 11°39 | 26°19 | 21°49 | 23° 1 | 26° 4 | 25°13 | 26° 4 | 6°13 | 17°29 | 15°58 | 23°17 | 10°29 | T 20 |
| F 21 | 6 1 59 | 0 궁 14'50 | 19°29 | 13° 5 | 27°33 | 22°36 | 23° 9 | 26°10 | 25°11 | 26° 4 | 6°12 | 17°R30 | 15°55 | 23°24 | 10°26 | F 21 |
| S 22 | 6 5 55 | 1°16'01 | 2 , 717 | 14°32 | 28°48 | 23°23 | 23°17 | 26°17 | 25° 8 | 26° 5 | 6°11 | 17°29 | 15°51 | 23°31 | 10°24 | S 22 |
| S 23 | 6 9 52 | 2°17'12 | 15°27 | 15°59 | 0≈ 2 | 24°10 | 23°25 | 26°24 | 25° 5 | 26° 5 | 6°10 | 17°25 | 15°48 | 23°37 | 10°21 | S 23 |
| M24 | 6 13 49 | 3°18'24 | 28°57 | 17°27 | 1°17 | 24°57 | 23°33 | 26°30 | 25° 3 | 26° 6 | 6° 8 | 17°20 | 15°45 | 23°44 | 10°18 | M24 |
| T 25 | 6 17 45 | 4°19'35 | 12 る 47 | 18°56 | 2°31 | 25°44 | 23°41 | 26°37 | 25° 0 | 26° 6 | 6° 7 | 17°13 | 15°42 | 23°51 | 10°14 | T 25 |
| W26 | 6 21 42 | 5°20'47 | 26°53 | 20°25 | 3°45 | 26°32 | 23°49 | 26°44 | 24°58 | 26° 7 | 6° 6 | 17° 5 | 15°39 | 23°57 | 10°11 | W26 |
| T 27 | 6 25 38 | 6°21'59 | 11≈ 9 | 21°54 | 5° 0 | 27°19 | 23°57 | 26°51 | 24°55 | 26° 8 | 6° 5 | 16°56 | 15°36 | 24° 4 | 10° 8 | T 27 |
| F 28 | 6 29 35 | 7°23'10 | 25°31 | 23°24 | 6°14 | 28° 6 | 24° 4 | 26°58 | 24°53 | 26° 8 | 6° 4 | 16°49 | 15°32 | 24°11 | 10° 5 | F 28 |
| S 29 | 6 33 31 | 8°24'21 | 9 米 52 | 24°55 | 7°29 | 28°53 | 24°11 | 27° 4 | 24°50 | 26° 9 | 6° 3 | 16°43 | 15°29 | 24°18 | 10° 1 | S 29 |
| S 30 | 6 37 28 | 9°25'32 | 24° 9 | 26°25 | 8°43 | 29°40 | 24°18 | 27°11 | 24°48 | 26°10 | 6° 1 | 16°40 | 15°26 | 24°24 | 9°58 | S 30 |
| M31 | 6 41 24 | 10 ට 26'42 | 8 Υ 19 | 27 × 757 | 9≈57 | 0≈27 | 24 Ω 25 | 27 궁 18 | 24∏45 | 26 米 11 | 6 N 0 | 16°D39 | 15 M 23 | 24 m /31 | 9 Ω 54 | M31 |

Delta T = 15.42 sec

JANUARY 1697 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)Å(| ¥ | Р | ß | v | Ç | ç | Day |
|-------------------|-----------------------------|----------------------------------|---------------------------------|--|-------------------------|----------------------|-------------------------|-------------------------|-------------------------|--------------------------------|------------------------|--------------------------|-------------------------|-------------------------|------------------------|---------------------|
| T 1 W 2 | 6 45 21 6 49 18 | 11 る 27'53 12°29'02 | 22 Y 20 6 X 12 | 29 ズ 28 1 る 0 2°33 | 11≈11 12°26 13°40 | 1≈14 2° 2 | 24 <u>Ω</u> 32 24°39 | 27 3 25 27°32 | 24°R43 24∏41 | 26\dagger 12 26°13 26°14 | 5°R59 5 Ω 58 | 16MJ39 16°40 | 15 M 20 15°17 | 24 m/38 24°44 | 9°R50 9 Ω 47 | T 1 W 2 T 3 |
| T 3 F 4 S 5 | 6 53 14 6 57 11 7 1 7 | 13°30'11 14°31'20 15°32'29 | 19°55 3 Ⅲ 29 16°53 | 4° 6 5°39 | 13°40 14°54 16° 8 | 2°49 3°36 4°24 | 24°46 24°52 24°58 | 27°39 27°46 27°53 | 24°38 24°36 24°33 | 26°14 26°15 26°16 | 5°56 5°55 5°54 | 16°R41 16°39 16°35 | 15°13 15°10 15° 7 | 24°51 24°58 25° 4 | 9°43 9°39 9°35 | F 4 S 5 |
| S 6 | 7 5 4 | 16°33'36 | 095 6 | 7°13 | 17°22 | 5°11 | 25° 4 | 28° 0 | 24°31 | 26°17 | 5°53 | 16°29 | 15° 4 | 25°11 | 9°31 | S 6 |
| M 7 | 7 9 0 | 17°34'44 | 13° 8 | 8°47 | 18°36 | 5°58 | 25°10 | 28° 7 | 24°29 | 26°18 | 5°51 | 16°20 | 15° 1 | 25°18 | 9°27 | M 7 |
| T 8 | 7 12 57 | 18°35'51 | 25°57 | 10°21 | 19°50 | 6°45 | 25°16 | 28°14 | 24°26 | 26°19 | 5°50 | 16° 8 | 14°57 | 25°24 | 9°23 | T 8 |
| W 9 | 7 16 54 | 19°36'58 | 8 Ω 33 | 11°56 | 21° 4 | 7°33 | 25°22 | 28°21 | 24°24 | 26°20 | 5°49 | 15°56 | 14°54 | 25°31 | 9°19 | W 9 |
| T 10 | 7 20 50 | 20°38'04 | 20°55 | 13°32 | 22°18 | 8°20 | 25°27 | 28°28 | 24°22 | 26°21 | 5°47 | 15°44 | 14°51 | 25°38 | 9°15 | T 10 |
| F 11 | 7 24 47 | 21°39'10 | 3 m 5 | 15° 8 | 23°32 | 9° 8 | 25°33 | 28°35 | 24°20 | 26°22 | 5°46 | 15°33 | 14°48 | 25°45 | 9°10 | F 11 |
| S 12 | 7 28 43 | 22°40'16 | 15° 5 | 16°45 | 24°45 | 9°55 | 25°38 | 28°43 | 24°17 | 26°23 | 5°45 | 15°24 | 14°45 | 25°51 | 9°6 | S 12 |
| S 13 | 7 32 40 | 23°41'21 | 26°57 | 18°22 | 25°59 | 10°42 | 25°43 | 28°50 | 24°15 | 26°25 | 5°43 | 15°18 | 14°42 | 25°58 | 9° 2 | S 13 |
| M14 | 7 36 36 | 24°42'26 | 8 Ω 46 | 19°59 | 27°13 | 11°30 | 25°48 | 28°57 | 24°13 | 26°26 | 5°42 | 15°15 | 14°38 | 26° 5 | 8°57 | M14 |
| T 15 | 7 40 33 | 25°43'30 | 20°37 | 21°38 | 28°27 | 12°17 | 25°53 | 29° 4 | 24°11 | 26°27 | 5°41 | 15°13 | 14°35 | 26°11 | 8°53 | T 15 |
| W16 | 7 44 29 | 26°44'34 | 2 M. 34 | 23°16 | 29°40 | 13° 5 | 25°57 | 29°11 | 24° 9 | 26°28 | 5°39 | 15°D13 | 14°32 | 26°18 | 8°49 | W16 |
| T 17 | 7 48 26 | 27°45'38 | 14°44 | 24°56 | 0)(54 | 13°52 | 26° 2 | 29°18 | 24° 7 | 26°30 | 5°38 | 15°R14 | 14°29 | 26°25 | 8°44 | T 17 |
| F 18 | 7 52 22 | 28°46'41 | 27°12 | 26°36 | 2° 7 | 14°39 | 26° 6 | 29°25 | 24° 5 | 26°31 | 5°37 | 15°13 | 14°26 | 26°31 | 8°40 | F 18 |
| S 19 | 7 56 19 | 29°47'44 | 10 🗷 2 | 28°16 | 3°21 | 15°27 | 26°10 | 29°32 | 24° 3 | 26°33 | 5°35 | 15°11 | 14°22 | 26°38 | 8°35 | S 19 |
| S 20 | 8 0 16 | 0≈48'46 | 23°17 | 29°58 | 4°34 | 16°14 | 26°14 | 29°40 | 24° 1 | 26°34 | 5°34 | 15° 5 | 14°19 | 26°45 | 8°31 | S 20 |
| M21 | 8 4 12 | 1°49'48 | 7 る 0 | 1≈39 | 5°48 | 17° 2 | 26°17 | 29°47 | 23°59 | 26°36 | 5°32 | 14°58 | 14°16 | 26°51 | 8°26 | M21 |
| T 22 | 8 8 9 | 2°50'49 | 21° 8 | 3°22 | 7° 1 | 17°49 | 26°21 | 29°54 | 23°57 | 26°37 | 5°31 | 14°47 | 14°13 | 26°58 | 8°22 | T 22 |
| W23 T 24 | 8 12 5 8 16 2 8 19 58 | 3°51'49 4°52'47 | 5 ≈ 38 20°22 | 5° 5 6°49 8°33 | 8°14 9°28 | 18°37 19°24 | 26°24 26°27 | 0≈ 1 0° 8 | 23°56 23°54 | 26°39 26°40 26°42 | 5°30 5°28 | 14°35 14°23 14°12 | 14°10 14° 7 14° 3 | 27° 5 27°11 27°18 | 8°17 8°12 | W23 T 24 F 25 |
| F 25 S 26 | 8 23 55 | 5°53'45 6°54'42 | 5 米 11 19°59 | 10°18 | 10°41 11°54 | 20°12 20°59 | 26°30 26°33 | 0°15 0°22 | 23°52 23°50 | 26°42 26°43 | 5°27 5°25 | 14°12 14° 4 | 14° 3 | 27°18 27°25 | 8° 8 8° 3 | S 26 |
| S 27 | 8 27 52 | 7°55'37 | 4 Υ 36 | 12° 3 | 13° 7 | 21°47 | 26°36 | 0°29 | 23°49 | 26°45 | 5°24 | 13°58 | 13°57 | 27°32 | 7°58 | S 27 |
| M28 | 8 31 48 | 8°56'31 | 18°59 | 13°49 | 14°20 | 22°34 | 26°38 | 0°36 | 23°47 | 26°47 | 5°23 | 13°55 | 13°54 | 27°38 | 7°54 | M28 |
| T 29 | 8 35 45 | 9°57'24 | 3 8 4 | 15°36 | 15°33 | 23°21 | 26°40 | 0°44 | 23°45 | 26°48 | 5°21 | 13°54 | 13°51 | 27°45 | 7°49 | T 29 |
| W30 | 8 39 41 | 10°58'15 | 16°52 | 17°23 | 16°46 | 24° 9 | 26°43 | 0°51 | 23°44 | 26°50 | 5°20 | 13°54 | 13°48 | 27°52 | 7°45 | W30 |
| T 31 | 8 43 38 | 10 38 13 11≈59'05 | 0 Ⅱ 24 | 17 23 19 ≈ 10 | 17) 59 | 24 ≈ 56 | 26 ₽ 44 | 0 ≈ 58 | 23 II 42 | 26 1 52 | 5 Ω 18 | 13 M 53 | 13 48 13 ML 44 | 27 m 58 | 7 Ω 40 | T 31 |

Delta T = 15.39 sec

Greg. Calendar

FEBRUARY 1697 GC 00:00 UT

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|------|----------|-------------------|----------------|-----------------|----------------|---------------|----------------|------|------------------|------------------|---------------|-----------------|-----------------|-----------------|---------------|------|
| F 1 | 8 47 34 | 12≈59'53 | 13 Ⅱ 40 | 20≈58 | 19 米 11 | 25≈44 | 26 ♀ 46 | 1≈ 5 | 23°R41 | 26) 53 | 5°R17 | 13°R51 | 13ML41 | 28 m) 5 | 7°R35 | F 1 |
| S 2 | 8 51 31 | 14° 0'40 | 26°43 | 22°46 | 20°24 | 26°31 | 26°48 | 1°12 | 23耳40 | 26°55 | 5 Ω 16 | 13 M .46 | 13°38 | 28°12 | 7 Ω 31 | S 2 |
| S 3 | 8 55 27 | 15° 1'25 | 9935 | 24°34 | 21°36 | 27°19 | 26°49 | 1°19 | 23°38 | 26°57 | 5°14 | 13°38 | 13°35 | 28°18 | 7°26 | S 3 |
| M 4 | 8 59 24 | 16° 2'09 | 22°16 | 26°21 | 22°49 | 28° 6 | 26°50 | 1°26 | 23°37 | 26°59 | 5°13 | 13°27 | 13°32 | 28°25 | 7°22 | M 4 |
| T 5 | 9 3 21 | 17° 2'51 | 4 Ω 47 | 28° 9 | 24° 1 | 28°54 | 26°51 | 1°33 | 23°36 | 27° 1 | 5°12 | 13°14 | 13°28 | 28°32 | 7°17 | T 5 |
| W 6 | 9 7 17 | 18° 3'32 | 17° 9 | 29°56 | 25°14 | 29°41 | 26°52 | 1°40 | 23°35 | 27° 2 | 5°10 | 12°59 | 13°25 | 28°38 | 7°13 | W 6 |
| T 7 | 9 11 14 | 19° 4'12 | 29°21 | 1) (42 | 26°26 | 0 ∺ 28 | 26°52 | 1°47 | 23°33 | 27° 4 | 5° 9 | 12°45 | 13°22 | 28°45 | 7° 8 | T 7 |
| F 8 | 9 15 10 | 20° 4'50 | 11 m 24 | 3°27 | 27°38 | 1°16 | 26°53 | 1°53 | 23°32 | 27° 6 | 5° 8 | 12°32 | 13°19 | 28°52 | 7° 4 | F 8 |
| S 9 | 9 19 7 | 21° 5'26 | 23°19 | 5°10 | 28°50 | 2° 3 | 26°53 | 2° 0 | 23°31 | 27° 8 | 5° 6 | 12°21 | 13°16 | 28°58 | 6°59 | S 9 |
| S 10 | 9 23 3 | 22° 6'02 | 5 ₾ 9 | 6°52 | oΥ 2 | 2°50 | 26°R53 | 2° 7 | 23°30 | 27°10 | 5° 5 | 12°13 | 13°13 | 29° 5 | 6°55 | S 10 |
| M11 | 9 27 0 | 23° 6'36 | 16°57 | 8°31 | 1°14 | 3°38 | 26°53 | 2°14 | 23°29 | 27°12 | 5° 4 | 12° 8 | 13° 9 | 29°12 | 6°50 | M11 |
| T 12 | 9 30 56 | 24° 7'09 | 28°47 | 10° 8 | 2°25 | 4°25 | 26°52 | 2°21 | 23°28 | 27°14 | 5° 2 | 12° 5 | 13° 6 | 29°18 | 6°46 | T 12 |
| W13 | 9 34 53 | 25° 7'40 | 10 M 42 | 11°41 | 3°37 | 5°12 | 26°52 | 2°28 | 23°27 | 27°16 | 5° 1 | 12°D 4 | 13° 3 | 29°25 | 6°42 | W13 |
| T 14 | 9 38 49 | 26° 8'10 | 22°49 | 13°10 | 4°49 | 6° 0 | 26°51 | 2°34 | 23°27 | 27°18 | 5° 0 | 12°R 4 | 13° 0 | 29°32 | 6°37 | T 14 |
| F 15 | 9 42 46 | 27° 8'39 | 5 ₹ 13 | 14°35 | 6° 0 | 6°47 | 26°50 | 2°41 | 23°26 | 27°20 | 4°58 | 12° 4 | 12°57 | 29°39 | 6°33 | F 15 |
| S 16 | 9 46 43 | 28° 9'07 | 17°59 | 15°54 | 7°11 | 7°34 | 26°49 | 2°48 | 23°25 | 27°22 | 4°57 | 12° 3 | 12°54 | 29°45 | 6°29 | S 16 |
| S 17 | 9 50 39 | 29° 9'33 | 1 ਰ 11 | 17° 7 | 8°23 | 8°21 | 26°48 | 2°54 | 23°24 | 27°24 | 4°56 | 11°59 | 12°50 | 29°52 | 6°25 | S 17 |
| M18 | 9 54 36 | 0 米 9'58 | 14°53 | 18°14 | 9°34 | 9° 9 | 26°46 | 3° 1 | 23°24 | 27°26 | 4°55 | 11°52 | 12°47 | 29°59 | 6°21 | M18 |
| T 19 | 9 58 32 | 1°10'22 | 29° 4 | 19°14 | 10°45 | 9°56 | 26°45 | 3° 8 | 23°23 | 27°28 | 4°53 | 11°43 | 12°44 | 0 ♀ 5 | 6°17 | T 19 |
| W20 | 10 2 29 | 2°10'44 | 13≈42 | 20° 6 | 11°56 | 10°43 | 26°43 | 3°14 | 23°23 | 27°30 | 4°52 | 11°33 | 12°41 | 0°12 | 6°13 | W20 |
| T 21 | 10 6 25 | 3°11'04 | 28°40 | 20°49 | 13° 7 | 11°30 | 26°41 | 3°21 | 23°22 | 27°32 | 4°51 | 11°22 | 12°38 | 0°19 | 6° 9 | T 21 |
| F 22 | 10 10 22 | 4°11'23 | 13 米 49 | 21°24 | 14°17 | 12°17 | 26°38 | 3°27 | 23°22 | 27°34 | 4°50 | 11°12 | 12°34 | 0°25 | 6° 5 | F 22 |
| S 23 | 10 14 18 | 5°11'39 | 28°59 | 21°50 | 15°28 | 13° 4 | 26°36 | 3°34 | 23°22 | 27°37 | 4°49 | 11° 4 | 12°31 | 0°32 | 6° 2 | S 23 |
| S 24 | 10 18 15 | 6°11'54 | 13 Y 59 | 22° 6 | 16°39 | 13°52 | 26°33 | 3°40 | 23°21 | 27°39 | 4°47 | 10°59 | 12°28 | 0°39 | 5°58 | S 24 |
| M25 | 10 22 12 | 7°12'07 | 28°41 | 22°R12 | 17°49 | 14°39 | 26°31 | 3°46 | 23°21 | 27°41 | 4°46 | 10°56 | 12°25 | 0°45 | 5°54 | M25 |
| T 26 | 10 26 8 | 8°12'17 | 138 2 | 22° 9 | 18°59 | 15°26 | 26°28 | 3°53 | 23°21 | 27°43 | 4°45 | 10°D56 | 12°22 | 0°52 | 5°51 | T 26 |
| W27 | 10 30 5 | 9°12'26 | 26°59 | 21°57 | 20° 9 | 16°13 | 26°24 | 3°59 | 23°21 | 27°45 | 4°44 | 10°56 | 12°19 | 0°59 | 5°47 | W27 |
| T 28 | 10 34 1 | 10 ¥ 12'32 | 10 Ⅲ 33 | 21) 36 | 21 Y 19 | 17 ∺ 0 | 26 ₽ 21 | 4≈ 5 | 23Ⅲ21 | 27) (47 | 4 Ω 43 | 10°R57 | 12 M .15 | 1 ♀ 5 | 5 Ω 44 | T 28 |

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|--------------|----------------------|----------------------|-------------------------|----------------|----------------|----------------|----------------|--------------|----------------|----------------|---------------|----------------|-----------------|---------------|---------------|--------------|
| F 1 | 10 37 58 | 11 米 12'37 | 23 Ⅱ 45 | 21°R 7 | 22 Y 29 | 17) 47 | 26°R18 | 4≈11 | 23°D21 | 27 米 50 | 4°R42 | 10°R56 | 12 M .12 | 1 ≏ 12 | 5°R40 | F 1 |
| S 2 | 10 41 54 | 12°12'39 | 69340 | 20 ∺ 30 | 23°39 | 18°34 | 26 ₽ 14 | 4°18 | 23Ⅱ21 | 27°52 | 4 Ω 41 | 10 M 53 | 12° 9 | 1°19 | 5 Ω 37 | S 2 |
| S 3 | 10 45 51 | 13°12'39 | 19°19 | 19°46 | 24°48 | 19°21 | 26°10 | 4°24 | 23°21 | 27°54 | 4°40 | 10°48 | 12° 6 | 1°25 | 5°34 | S 3 |
| M 4 | 10 49 47 | 14°12'37 | 10.45 | 18°57 | 25°58 | 20° 7 | 26° 6 | 4°30 | 23°21 | 27°56 | 4°39 | 10°40 | 12° 3 | 1°32 | 5°31 | M 4 |
| T 5 W 6 | 10 53 44 10 57 41 | 15°12'32 16°12'26 | 14° 1 26° 9 | 18° 3 17° 7 | 27° 7 28°16 | 20°54 21°41 | 26° 2 25°57 | 4°36 4°42 | 23°21 23°21 | 27°58 28° 1 | 4°38 4°37 | 10°30 10°20 | 12° 0 11°56 | 1°39 1°45 | 5°28 5°25 | T 5 W 6 |
| T 7 | 10 37 41 | 10 12 20 17°12'18 | 8 m 10 | 16° 8 | 28 10 29°25 | 21°41 22°28 | 25°53 | 4°48 | 23°22 | 28° 3 | 4°36 | 10° 20 | 11°53 | 1°52 | 5°22 | T 7 |
| F 8 | 11 5 34 | 18°12'07 | 20° 6 | 15°10 | 0834 | 23°15 | 25°48 | 4°53 | 23°22 | 28° 5 | 4°35 | 10° 0 | 11°50 | 1°59 | 5°19 | F 8 |
| S 9 | 11 930 | 19°11'55 | 1 ≙ 57 | 14°12 | 1°42 | 24° 1 | 25°44 | 4°59 | 23°22 | 28° 7 | 4°34 | 9°52 | 11°47 | 2° 5 | 5°17 | S 9 |
| S 10 | 11 13 27 | 20°11'40 | 13°46 | 13°16 | 2°51 | 24°48 | 25°39 | 5° 5 | 23°23 | 28°10 | 4°33 | 9°46 | 11°44 | 2°12 | 5°14 | S 10 |
| M11 | 11 17 23 | 21°11'24 | 25°35 | 12°24 | 3°59 | 25°35 | 25°33 | 5°11 | 23°23 | 28°12 | 4°32 | 9°42 | 11°40 | 2°19 | 5°11 | M11 |
| T 12 | 11 21 20 | 22°11'06 | 7 M 26 | 11°35 | 5° 7 | 26°21 | 25°28 | 5°16 | 23°24 | 28°14 | 4°31 | 9°D41 | 11°37 | 2°25 | 5° 9 | T 12 |
| W13 | 11 25 16 | 23°10'46 | 19°24 | 10°52 | 6°15 | 27° 8 | 25°23 | 5°22 | 23°25 | 28°16 | 4°30 | 9°42 | 11°34 | 2°32 | 5° 7 | W13 |
| T 14 F 15 | 11 29 13 11 33 10 | 24°10'24 25°10'01 | 1 ∡ 732 13°55 | 10°13 9°41 | 7°23 8°30 | 27°55 28°41 | 25°17 25°12 | 5°27 5°33 | 23°25 23°26 | 28°19 28°21 | 4°29 4°29 | 9°43 9°44 | 11°31 11°28 | 2°39 2°46 | 5° 5 5° 2 | T 14 F 15 |
| S 16 | 11 33 10 | 26° 9'36 | 26°38 | 9°14 | 9°37 | 28 41 29°28 | 25° 6 | 5°38 | 23°27 | 28°23 | 4°28 | 9°R45 | 11°25 | 2°52 | 5° 0 | S 16 |
| S 17 | 11 41 3 | 27° 9'09 | 9 곱 45 | 8°53 | 10°45 | 0 Υ 14 | 25° 0 | 5°44 | 23°28 | 28°25 | 4°27 | 9°44 | 11°21 | 2°59 | 4°58 | S 17 |
| M18 | 11 44 59 | 28° 8'40 | 23°19 | 8°39 | 11°51 | 1° 0 | 24°54 | 5°49 | 23°29 | 28°28 | 4°26 | 9°41 | 11°18 | 3° 6 | 4°57 | M18 |
| T 19 | 11 48 56 | 29° 8'10 | 7 ≈ 21 | 8°30 | 12°58 | 1°47 | 24°48 | 5°54 | 23°29 | 28°30 | 4°26 | 9°37 | 11°15 | 3°12 | 4°55 | T 19 |
| W20 | 11 52 52 | 0 ℃ 7'38 | 21°52 | 8°D28 | 14° 5 | 2°33 | 24°41 | 5°59 | 23°30 | 28°32 | 4°25 | 9°32 | 11°12 | 3°19 | 4°53 | W20 |
| T 21 | 11 56 49 | 1° 7'04 | 6) 46 | 8°31 | 15°11 | 3°20 | 24°35 | 6° 4 | 23°31 | 28°35 | 4°24 | 9°26 | 11° 9 | 3°26 | 4°52 | T 21 |
| F 22 | 12 0 45 | 2° 6'27 | 21°56 | 8°40 | 16°17 | 4° 6 | 24°28 | 6° 9 | 23°33 | 28°37 | 4°24 | 9°20 | 11° 5 | 3°32 | 4°50 | F 22 |
| S 23 | 12 4 42 | 3° 5'49 | 7 Υ 12 | 8°54 | 17°23 | 4°52 | 24°22 | 6°14 | 23°34 | 28°39 | 4°23 | 9°16 | 11° 2 | 3°39 | 4°49 | S 23 |
| S 24 | 12 8 38 | 4° 5'09 | 22°24 | 9°14 | 18°29 | 5°38 | 24°15 | 6°19 | 23°35 | 28°41 | 4°22 | 9°13 | 10°59 | 3°46 | 4°48 | S 24 |
| M25 | 12 12 35 | 5° 4'27 | 7 8 22 21°58 | 9°38 10° 7 | 19°34 | 6°24 | 24° 8 | 6°24 | 23°36 | 28°44 | 4°22 | 9°D12 | 10°56 | 3°52 | 4°47 | M25 |
| T 26 W27 | 12 16 32 12 20 28 | 6° 3'42 7° 2'56 | 6 Ⅱ 9 | 10° / | 20°39 21°44 | 7°11 7°57 | 24° 1 23°54 | 6°29 6°33 | 23°37 23°39 | 28°46 28°48 | 4°21 4°21 | 9°13 9°14 | 10°53 10°50 | 3°59 4° 6 | 4°46 4°45 | T 26 W27 |
| T 28 | 12 24 25 | 8° 2'07 | 19°53 | 10 40 11°17 | 21°44 22°49 | 8°43 | 23°47 | 6°38 | 23°40 | 28°50 | 4°20 | 9°15 | 10°36 | 4°12 | 4°44 | T 28 |
| F 29 | 12 28 21 | 9° 1'15 | 39512 | 11°58 | 23°53 | 9°29 | 23°40 | 6°42 | 23°42 | 28°53 | 4°20 | 9°R16 | 10°43 | 4°19 | 4°43 | F 29 |
| S 30 | 12 32 18 | 10° 0'22 | 16° 8 | 12°43 | 24°57 | 10°15 | 23°33 | 6°47 | 23°43 | 28°55 | 4°19 | 9°16 | 10°40 | 4°26 | 4°43 | S 30 |
| S 31 | 12 36 14 | 10 Y 59'25 | 289644 | 13 米 31 | 268 1 | 11 Y 0 | 23 £ 25 | 6≈51 | 23耳45 | 28 米 57 | 4 Ω 19 | 9 M .15 | 10 ML 37 | 4 ₾ 32 | 4Ω42 | S 31 |

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Greg. Calendar

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|------|----------|-------------------|-----------------|------------------|---------------|----------------|----------------|------|----------------|----------------|---------------|----------------|----------------|---------------|---------------|------|
| M 1 | 12 40 11 | 11 Y 58'27 | 11 0 5 | 14) (22 | 27 8 4 | 11 Y 46 | 23°R18 | 6≈55 | 23∏46 | 28 米 59 | 4°R18 | 9°R12 | 10 M 34 | 4 ₾ 39 | 4°R42 | M 1 |
| T 2 | 12 44 7 | 12°57'26 | 23°13 | 15°17 | 28° 8 | 12°32 | 23 ₽ 11 | 7° 0 | 23°48 | 29° 2 | 4 Ω 18 | 9 ™ 9 | 10°31 | 4°46 | 4 Ω 41 | T 2 |
| W 3 | 12 48 4 | 13°56'23 | 5 m 12 | 16°15 | 29°10 | 13°18 | 23° 3 | 7° 4 | 23°50 | 29° 4 | 4°18 | 9° 5 | 10°27 | 4°52 | 4°41 | W 3 |
| T 4 | 12 52 1 | 14°55'18 | 17° 6 | 17°15 | 0 Ⅱ 13 | 14° 4 | 22°56 | 7° 8 | 23°51 | 29° 6 | 4°17 | 9° 0 | 10°24 | 4°59 | 4°D41 | T 4 |
| F 5 | 12 55 57 | 15°54'10 | 28°56 | 18°18 | 1°15 | 14°49 | 22°48 | 7°12 | 23°53 | 29° 8 | 4°17 | 8°57 | 10°21 | 5° 6 | 4°41 | F 5 |
| S 6 | 12 59 54 | 16°53'01 | 10 ≏ 45 | 19°24 | 2°17 | 15°35 | 22°40 | 7°16 | 23°55 | 29°10 | 4°17 | 8°53 | 10°18 | 5°12 | 4°41 | S 6 |
| S 7 | 13 3 50 | 17°51'49 | 22°36 | 20°32 | 3°19 | 16°20 | 22°33 | 7°20 | 23°57 | 29°13 | 4°17 | 8°51 | 10°15 | 5°19 | 4°42 | S 7 |
| M 8 | 13 7 47 | 18°50'36 | 4 M 29 | 21°42 | 4°20 | 17° 6 | 22°25 | 7°23 | 23°59 | 29°15 | 4°16 | 8°D51 | 10°11 | 5°26 | 4°42 | M 8 |
| T 9 | 13 11 43 | 19°49'21 | 16°27 | 22°55 | 5°21 | 17°51 | 22°18 | 7°27 | 24° 1 | 29°17 | 4°16 | 8°51 | 10° 8 | 5°32 | 4°42 | T 9 |
| W10 | 13 15 40 | 20°48'03 | 28°33 | 24°10 | 6°21 | 18°37 | 22°10 | 7°31 | 24° 3 | 29°19 | 4°16 | 8°52 | 10° 5 | 5°39 | 4°43 | W10 |
| T 11 | 13 19 36 | 21°46'44 | 10 ∡ 749 | 25°27 | 7°21 | 19°22 | 22° 2 | 7°34 | 24° 5 | 29°21 | 4°16 | 8°53 | 10° 2 | 5°46 | 4°44 | T 11 |
| F 12 | 13 23 33 | 22°45'24 | 23°19 | 26°47 | 8°21 | 20° 8 | 21°54 | 7°37 | 24° 7 | 29°23 | 4°16 | 8°54 | 9°59 | 5°52 | 4°45 | F 12 |
| S 13 | 13 27 30 | 23°44'01 | 6 ප 5 | 28° 8 | 9°20 | 20°53 | 21°47 | 7°41 | 24° 9 | 29°25 | 4°16 | 8°55 | 9°56 | 5°59 | 4°45 | S 13 |
| S 14 | 13 31 26 | 24°42'37 | 19°11 | 29°31 | 10°19 | 21°38 | 21°39 | 7°44 | 24°11 | 29°28 | 4°16 | 8°R56 | 9°52 | 6° 6 | 4°46 | S 14 |
| M15 | 13 35 23 | 25°41'11 | 2≈39 | 0 Υ 56 | 11°17 | 22°23 | 21°31 | 7°47 | 24°13 | 29°30 | 4°16 | 8°56 | 9°49 | 6°12 | 4°48 | M15 |
| T 16 | 13 39 19 | 26°39'44 | 16°32 | 2°23 | 12°15 | 23° 9 | 21°24 | 7°50 | 24°15 | 29°32 | 4°D16 | 8°55 | 9°46 | 6°19 | 4°49 | T 16 |
| W17 | 13 43 16 | 27°38'14 | 0) €48 | 3°52 | 13°12 | 23°54 | 21°16 | 7°53 | 24°18 | 29°34 | 4°16 | 8°54 | 9°43 | 6°26 | 4°50 | W17 |
| T 18 | 13 47 12 | 28°36'44 | 15°26 | 5°23 | 14° 9 | 24°39 | 21° 9 | 7°56 | 24°20 | 29°36 | 4°16 | 8°53 | 9°40 | 6°32 | 4°52 | T 18 |
| F 19 | 13 51 9 | 29°35'11 | 0 Υ 21 | 6°55 | 15° 6 | 25°24 | 21° 1 | 7°59 | 24°22 | 29°38 | 4°16 | 8°52 | 9°36 | 6°39 | 4°53 | F 19 |
| S 20 | 13 55 5 | 0 8 33'37 | 15°26 | 8°29 | 16° 1 | 26° 9 | 20°54 | 8° 2 | 24°25 | 29°40 | 4°16 | 8°51 | 9°33 | 6°46 | 4°55 | S 20 |
| S 21 | 13 59 2 | 1°32'01 | 0 8 32 | 10° 6 | 16°57 | 26°54 | 20°46 | 8° 4 | 24°27 | 29°42 | 4°16 | 8°51 | 9°30 | 6°52 | 4°56 | S 21 |
| M22 | 14 2 58 | 2°30'23 | 15°30 | 11°43 | 17°52 | 27°39 | 20°39 | 8° 7 | 24°30 | 29°44 | 4°16 | 8°D51 | 9°27 | 6°59 | 4°58 | M22 |
| T 23 | 14 6 55 | 3°28'43 | 0 I I1 | 13°23 | 18°46 | 28°23 | 20°31 | 8° 9 | 24°32 | 29°46 | 4°16 | 8°51 | 9°24 | 7° 6 | 5° 0 | T 23 |
| W24 | 14 10 52 | 4°27'02 | 14°31 | 15° 4 | 19°40 | 29° 8 | 20°24 | 8°12 | 24°35 | 29°48 | 4°17 | 8°51 | 9°21 | 7°12 | 5° 2 | W24 |
| T 25 | 14 14 48 | 5°25'18 | 28°25 | 16°48 | 20°33 | 29°53 | 20°17 | 8°14 | 24°37 | 29°50 | 4°17 | 8°52 | 9°17 | 7°19 | 5° 4 | T 25 |
| F 26 | 14 18 45 | 6°23'33 | 11952 | 18°33 | 21°25 | 0837 | 20°10 | 8°16 | 24°40 | 29°52 | 4°17 | 8°52 | 9°14 | 7°26 | 5° 7 | F 26 |
| S 27 | 14 22 41 | 7°21'45 | 24°54 | 20°19 | 22°17 | 1°22 | 20° 2 | 8°18 | 24°43 | 29°54 | 4°17 | 8°52 | 9°11 | 7°32 | 5° 9 | S 27 |
| S 28 | 14 26 38 | 8°19'56 | 7 Ω 34 | 22° 8 | 23° 8 | 2° 7 | 19°55 | 8°20 | 24°45 | 29°55 | 4°18 | 8°52 | 9° 8 | 7°39 | 5°12 | S 28 |
| M29 | 14 30 34 | 9°18'04 | 19°55 | 23°58 | 23°58 | 2°51 | 19°49 | 8°22 | 24°48 | 29°57 | 4°18 | 8°52 | 9° 5 | 7°46 | 5°14 | M29 |
| T 30 | 14 34 31 | 10816'10 | 2 Mp 1 | 25 Υ 51 | 24∏48 | 3 8 36 | 19 ≏ 42 | 8≈24 | 24 Ⅱ 51 | 29 米 59 | 4 Ω 18 | 8 M .52 | 9 ™ 2 | 7 ≙ 52 | 5 Ω 17 | T 30 |

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| W 1 | | | | | φ | ♂ | 4 | ħ |)Å(| 并 | Р | Ç | c | Ç | ç | Day |
|------|----------|-------------------|------------------|----------------|----------------|---------------|----------------|-------|-------|---------------|---------------|----------------|----------------|----------------|---------------|------|
| VV I | 14 38 27 | 11 8 14'14 | 13 m 58 | 27 Y 45 | 25 Ⅲ 37 | 4 8 20 | 19°R35 | 8≈25 | 24∏54 | o Υ 1 | 4 Ω 19 | 8 M .53 | 8 M .58 | 7 ≏ 59 | 5 N 20 | W 1 |
| T 2 | 14 42 24 | 12°12'17 | 25°48 | 29°40 | 26°25 | 5° 4 | 19 ≏ 28 | 8°27 | 24°57 | 0° 3 | 4°19 | 8°53 | 8°55 | 8° 6 | 5°22 | T 2 |
| | 14 46 21 | 13°10'17 | 7 ≙ 37 | 1 8 38 | 27°12 | 5°49 | 19°22 | 8°28 | 24°59 | 0° 5 | 4°20 | 8°53 | 8°52 | 8°12 | 5°25 | F 3 |
| S 4 | 14 50 17 | 14° 8'16 | 19°27 | 3°37 | 27°58 | 6°33 | 19°15 | 8°30 | 25° 2 | 0° 6 | 4°20 | 8°54 | 8°49 | 8°19 | 5°28 | S 4 |
| S 5 | 14 54 14 | 15° 6'13 | 1 M 21 | 5°38 | 28°44 | 7°17 | 19° 9 | 8°31 | 25° 5 | 0° 8 | 4°21 | 8°54 | 8°46 | 8°26 | 5°32 | S 5 |
| M 6 | 14 58 10 | 16° 4'09 | 13°21 | 7°41 | 29°28 | 8° 1 | 19° 3 | 8°32 | 25° 8 | 0°10 | 4°21 | 8°R54 | 8°42 | 8°32 | 5°35 | M 6 |
| T 7 | 15 2 7 | 17° 2'03 | 25°30 | 9°45 | 09512 | 8°45 | 18°57 | 8°33 | 25°11 | 0°12 | 4°22 | 8°54 | 8°39 | 8°39 | 5°38 | T 7 |
| | 15 6 3 | 17°59'55 | 7 .₹ 50 | 11°51 | 0°54 | 9°29 | 18°51 | 8°35 | 25°14 | 0°13 | 4°22 | 8°53 | 8°36 | 8°46 | 5°42 | W 8 |
| T 9 | 15 10 0 | 18°57'46 | 20°21 | 13°58 | 1°36 | 10°13 | 18°45 | 8°35 | 25°17 | 0°15 | 4°23 | 8°52 | 8°33 | 8°52 | 5°45 | T 9 |
| F 10 | 15 13 56 | 19°55'36 | 3 ප 6 | 16° 6 | 2°16 | 10°57 | 18°39 | 8°36 | 25°20 | 0°16 | 4°23 | 8°50 | 8°30 | 8°59 | 5°49 | F 10 |
| S 11 | 15 17 53 | 20°53'24 | 16° 5 | 18°16 | 2°56 | 11°41 | 18°34 | 8°37 | 25°23 | 0°18 | 4°24 | 8°49 | 8°27 | 9° 6 | 5°52 | S 11 |
| S 12 | 15 21 50 | 21°51'12 | 29°19 | 20°26 | 3°34 | 12°25 | 18°28 | 8°38 | 25°27 | 0°20 | 4°25 | 8°48 | 8°23 | 9°12 | 5°56 | S 12 |
| M13 | 15 25 46 | 22°48'58 | 12≈51 | 22°37 | 4°11 | 13° 9 | 18°23 | 8°38 | 25°30 | 0°21 | 4°25 | 8°47 | 8°20 | 9°19 | 6° 0 | M13 |
| T 14 | 15 29 43 | 23°46'42 | 26°39 | 24°48 | 4°47 | 13°52 | 18°18 | 8°39 | 25°33 | 0°23 | 4°26 | 8°D47 | 8°17 | 9°26 | 6° 4 | T 14 |
| W15 | 15 33 39 | 24°44'26 | 10) (44 | 27° 0 | 5°21 | 14°36 | 18°13 | 8°39 | 25°36 | 0°24 | 4°27 | 8°47 | 8°14 | 9°32 | 6° 8 | W15 |
| T 16 | 15 37 36 | 25°42'09 | 25° 4 | 29°11 | 5°54 | 15°20 | 18° 8 | 8°39 | 25°39 | 0°26 | 4°28 | 8°48 | 8°11 | 9°39 | 6°12 | T 16 |
| F 17 | 15 41 32 | 26°39'51 | 9 Υ 38 | 1∏22 | 6°26 | 16° 3 | 18° 3 | 8°39 | 25°42 | 0°27 | 4°28 | 8°49 | 8° 8 | 9°46 | 6°17 | F 17 |
| S 18 | 15 45 29 | 27°37'31 | 24°21 | 3°32 | 6°56 | 16°47 | 17°58 | 8°R39 | 25°46 | 0°29 | 4°29 | 8°50 | 8° 4 | 9°52 | 6°21 | S 18 |
| S 19 | 15 49 25 | 28°35'11 | 9 8 7 | 5°41 | 7°25 | 17°30 | 17°54 | 8°39 | 25°49 | 0°30 | 4°30 | 8°R51 | 8° 1 | 9°59 | 6°25 | S 19 |
| M20 | 15 53 22 | 29°32'49 | 23°49 | 7°50 | 7°53 | 18°14 | 17°50 | 8°39 | 25°52 | 0°31 | 4°31 | 8°50 | 7°58 | 10° 6 | 6°30 | M20 |
| T 21 | 15 57 19 | 0耳30′26 | 8Ⅲ21 | 9°56 | 8°18 | 18°57 | 17°46 | 8°39 | 25°56 | 0°33 | 4°32 | 8°49 | 7°55 | 10°12 | 6°34 | T 21 |
| W22 | 16 1 15 | 1°28'02 | 22°36 | 12° 1 | 8°42 | 19°40 | 17°42 | 8°39 | 25°59 | 0°34 | 4°33 | 8°46 | 7°52 | 10°19 | 6°39 | W22 |
| T 23 | 16 5 12 | 2°25'37 | 6930 | 14° 4 | 9° 5 | 20°23 | 17°38 | 8°38 | 26° 2 | 0°35 | 4°34 | 8°43 | 7°48 | 10°26 | 6°44 | T 23 |
| F 24 | 16 9 8 | 3°23'11 | 20° 1 | 16° 5 | 9°25 | 21° 7 | 17°34 | 8°38 | 26° 6 | 0°37 | 4°35 | 8°39 | 7°45 | 10°32 | 6°49 | F 24 |
| S 25 | 16 13 5 | 4°20'43 | 3 N 7 | 18° 4 | 9°44 | 21°50 | 17°31 | 8°37 | 26° 9 | 0°38 | 4°36 | 8°36 | 7°42 | 10°39 | 6°54 | S 25 |
| | 16 17 1 | 5°18'13 | 15°50 | 20° 0 | 10° 1 | 22°33 | 17°28 | 8°36 | 26°12 | 0°39 | 4°37 | 8°34 | 7°39 | 10°46 | 6°59 | S 26 |
| M27 | 16 20 58 | 6°15'43 | 28°13 | 21°54 | 10°15 | 23°16 | 17°24 | 8°35 | 26°16 | 0°40 | 4°38 | 8°32 | 7°36 | 10°52 | 7° 4 | M27 |
| T 28 | 16 24 54 | 7°13'11 | 10 m 21 | 23°46 | 10°28 | 23°59 | 17°21 | 8°34 | 26°19 | 0°42 | 4°39 | 8°D32 | 7°33 | 10°59 | 7° 9 | T 28 |
| W29 | 16 28 51 | 8°10'38 | 22°17 | 25°35 | 10°39 | 24°42 | 17°19 | 8°33 | 26°23 | 0°43 | 4°40 | 8°33 | 7°29 | 11° 6 | 7°14 | W29 |
| | 16 32 48 | 9° 8'03 | 4 ♀ 7 | 27°21 | 10°47 | 25°25 | 17°16 | 8°32 | 26°26 | 0°44 | 4°41 | 8°34 | 7°26 | 11°12 | 7°19 | T 30 |
| F 31 | 16 36 44 | 10耳 5'27 | 15 ≏ 56 | 29耳 5 | 10🕶53 | 26 8 7 | 17 ₽ 14 | 8≈31 | 26耳30 | 0 Υ 45 | $4\Omega 42$ | 8 M .36 | 7 m 23 | 11 ≏ 19 | 7Ω 25 | F 31 |

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| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| 卉 | Б | v | Ω | Ç | Š | Day |
|------|----------|-------------------|----------------|--------|--------|----------------|----------------|-------|----------------|---------------|---------------|---------------|----------------|----------------|----------------|------|
| S 1 | 16 40 41 | 11 II 2'51 | 27 ≏ 48 | 0946 | 10958 | 26 8 50 | 17°R11 | 8°R30 | 26耳33 | 0 Υ 46 | 4 Ω 43 | 8 M 37 | 7 M 20 | 11 ≏ 26 | 7 Ω 30 | S 1 |
| S 2 | 16 44 37 | 12° 0'13 | 9 M .47 | 2°24 | 10°R59 | 27°33 | 17 ♀ 9 | 8≈28 | 26°37 | 0°47 | 4°44 | 8°R38 | 7°17 | 11°32 | 7°35 | S 2 |
| M 3 | 16 48 34 | 12°57'34 | 21°57 | 4° 0 | 10°59 | 28°15 | 17° 8 | 8°27 | 26°40 | 0°48 | 4°45 | 8°37 | 7°14 | 11°39 | 7°41 | M 3 |
| T 4 | 16 52 30 | 13°54'54 | 4 √ 19 | 5°32 | 10°56 | 28°58 | 17° 6 | 8°25 | 26°44 | 0°49 | 4°47 | 8°35 | 7°10 | 11°46 | 7°47 | T 4 |
| W 5 | 16 56 27 | 14°52'14 | 16°56 | 7° 2 | 10°50 | 29°40 | 17° 4 | 8°24 | 26°47 | 0°50 | 4°48 | 8°30 | 7° 7 | 11°52 | 7°52 | W 5 |
| T 6 | 17 0 23 | 15°49'33 | 29°47 | 8°29 | 10°42 | 0 Ⅲ 23 | 17° 3 | 8°22 | 26°51 | 0°51 | 4°49 | 8°25 | 7° 4 | 11°59 | 7°58 | T 6 |
| F 7 | 17 4 20 | 16°46'51 | 12 る 53 | 9°54 | 10°32 | 1° 5 | 17° 2 | 8°20 | 26°54 | 0°52 | 4°50 | 8°19 | 7° 1 | 12° 6 | 8° 4 | F 7 |
| S 8 | 17 8 17 | 17°44'08 | 26°13 | 11°15 | 10°20 | 1°48 | 17° 1 | 8°18 | 26°58 | 0°52 | 4°52 | 8°13 | 6°58 | 12°12 | 8°10 | S 8 |
| S 9 | 17 12 13 | 18°41'25 | 9≈46 | 12°34 | 10° 5 | 2°30 | 17° 0 | 8°16 | 27° 1 | 0°53 | 4°53 | 8° 7 | 6°54 | 12°19 | 8°16 | S 9 |
| M10 | 17 16 10 | 19°38'42 | 23°29 | 13°49 | 9°47 | 3°12 | 16°59 | 8°14 | 27° 5 | 0°54 | 4°54 | 8° 3 | 6°51 | 12°25 | 8°22 | M10 |
| T 11 | 17 20 6 | 20°35'58 | 7 ∺ 23 | 15° 2 | 9°28 | 3°54 | 16°59 | 8°12 | 27° 9 | 0°55 | 4°56 | 8° 0 | 6°48 | 12°32 | 8°28 | T 11 |
| W12 | 17 24 3 | 21°33'14 | 21°26 | 16°11 | 9° 6 | 4°37 | 16°59 | 8°10 | 27°12 | 0°55 | 4°57 | 8°D 0 | 6°45 | 12°39 | 8°34 | W12 |
| T 13 | 17 27 59 | 22°30'30 | 5 Υ 36 | 17°17 | 8°42 | 5°19 | 16°D58 | 8° 7 | 27°16 | 0°56 | 4°58 | 8° 0 | 6°42 | 12°45 | 8°40 | T 13 |
| F 14 | 17 31 56 | 23°27'45 | 19°51 | 18°20 | 8°16 | 6° 1 | 16°59 | 8° 5 | 27°19 | 0°57 | 5° 0 | 8° 1 | 6°39 | 12°52 | 8°47 | F 14 |
| S 15 | 17 35 52 | 24°25'00 | 4811 | 19°20 | 7°48 | 6°43 | 16°59 | 8° 2 | 27°23 | 0°57 | 5° 1 | 8°R 2 | 6°35 | 12°59 | 8°53 | S 15 |
| S 16 | 17 39 49 | 25°22'15 | 18°32 | 20°17 | 7°18 | 7°25 | 16°59 | 8° 0 | 27°26 | 0°58 | 5° 2 | 8° 2 | 6°32 | 13° 5 | 8°59 | S 16 |
| M17 | 17 43 46 | 26°19'30 | 2耳50 | 21°10 | 6°46 | 8° 7 | 17° 0 | 7°57 | 27°30 | 0°59 | 5° 4 | 7°59 | 6°29 | 13°12 | 9° 6 | M17 |
| T 18 | 17 47 42 | 27°16'45 | 17° 1 | 21°59 | 6°14 | 8°48 | 17° 1 | 7°54 | 27°34 | 0°59 | 5° 5 | 7°55 | 6°26 | 13°19 | 9°12 | T 18 |
| W19 | 17 51 39 | 28°14'00 | 0959 | 22°45 | 5°39 | 9°30 | 17° 2 | 7°51 | 27°37 | 1° 0 | 5° 7 | 7°48 | 6°23 | 13°25 | 9°19 | W19 |
| T 20 | 17 55 35 | 29°11'14 | 14°42 | 23°27 | 5° 4 | 10°12 | 17° 3 | 7°48 | 27°41 | 1° 0 | 5° 8 | 7°40 | 6°20 | 13°32 | 9°25 | T 20 |
| F 21 | 17 59 32 | 09 8'27 | 28° 5 | 24° 5 | 4°28 | 10°54 | 17° 4 | 7°45 | 27°44 | 1° 0 | 5°10 | 7°32 | 6°16 | 13°39 | 9°32 | F 21 |
| S 22 | 18 3 28 | 1° 5'40 | 11 0 8 | 24°39 | 3°51 | 11°35 | 17° 6 | 7°42 | 27°48 | 1° 1 | 5°11 | 7°23 | 6°13 | 13°45 | 9°39 | S 22 |
| S 23 | 18 7 25 | 2° 2'53 | 23°50 | 25° 9 | 3°14 | 12°17 | 17° 7 | 7°39 | 27°52 | 1° 1 | 5°13 | 7°16 | 6°10 | 13°52 | 9°45 | S 23 |
| M24 | 18 11 22 | 3° 0'06 | 6 m 13 | 25°34 | 2°36 | 12°58 | 17° 9 | 7°36 | 27°55 | 1° 1 | 5°14 | 7°10 | 6° 7 | 13°59 | 9°52 | M24 |
| T 25 | 18 15 18 | 3°57'17 | 18°21 | 25°56 | 1°59 | 13°40 | 17°11 | 7°33 | 27°59 | 1° 2 | 5°16 | 7° 7 | 6° 4 | 14° 5 | 9°59 | T 25 |
| W26 | 18 19 15 | 4°54'29 | 0 ჲ 17 | 26°13 | 1°21 | 14°21 | 17°14 | 7°29 | 28° 2 | 1° 2 | 5°17 | 7°D 6 | 6° 0 | 14°12 | 10° 6 | W26 |
| T 27 | 18 23 11 | 5°51'40 | 12° 7 | 26°25 | 0°45 | 15° 3 | 17°16 | 7°26 | 28° 6 | 1° 2 | 5°19 | 7° 6 | 5°57 | 14°19 | 10°13 | T 27 |
| F 28 | 18 27 8 | 6°48'51 | 23°57 | 26°33 | 0° 9 | 15°44 | 17°18 | 7°23 | 28°10 | 1° 2 | 5°20 | 7° 6 | 5°54 | 14°25 | 10°20 | F 28 |
| S 29 | 18 31 4 | 7°46'02 | 5 M 51 | 26°R36 | 29∏34 | 16°25 | 17°21 | 7°19 | 28°13 | 1° 3 | 5°22 | 7°R 7 | 5°51 | 14°32 | 10°27 | S 29 |
| S 30 | 18 35 1 | 89543'12 | 17 M 54 | 26934 | 29耳 0 | 17耳 6 | 17 ≏ 24 | 7≈16 | 28 Ⅲ 17 | 1 Υ 3 | 5 Ω 24 | 7 M 6 | 5 M .48 | 14 ≏ 39 | 10 Ω 34 | S 30 |

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|------|----------|------------------|----------------|--------|-----------------|----------------|----------------|-------|----------------|---------------|---------------|---------------|----------------|----------------|----------------|------|
| M 1 | 18 38 57 | 99540'22 | 0 ₮ 10 | 26°R28 | 28°R28 | 17 ∐ 47 | 17 ≙ 27 | 7°R12 | 28 Ⅱ 20 | 1 Υ 3 | 5 Ω 25 | 7°R 4 | 5 M .45 | 14 ≏ 45 | 10 Ω 41 | M 1 |
| T 2 | 18 42 54 | 10°37'32 | 12°43 | 269517 | 27 II 57 | 18°28 | 17°30 | 7≈ 8 | 28°24 | 1° 3 | 5°27 | 6 M 59 | 5°41 | 14°52 | 10°48 | T 2 |
| W 3 | 18 46 51 | 11°34'43 | 25°36 | 26° 1 | 27°28 | 19° 9 | 17°34 | 7° 4 | 28°27 | 1°R 3 | 5°28 | 6°52 | 5°38 | 14°59 | 10°55 | W 3 |
| T 4 | 18 50 47 | 12°31'53 | 8 국 47 | 25°42 | 27° 0 | 19°50 | 17°37 | 7° 1 | 28°31 | 1° 3 | 5°30 | 6°43 | 5°35 | 15° 5 | 11° 3 | T 4 |
| F 5 | 18 54 44 | 13°29'03 | 22°17 | 25°18 | 26°35 | 20°31 | 17°41 | 6°57 | 28°34 | 1° 3 | 5°32 | 6°32 | 5°32 | 15°12 | 11°10 | F 5 |
| S 6 | 18 58 40 | 14°26'14 | 6≈ 2 | 24°50 | 26°12 | 21°12 | 17°45 | 6°53 | 28°38 | 1° 3 | 5°33 | 6°22 | 5°29 | 15°19 | 11°17 | S 6 |
| S 7 | 19 2 37 | 15°23'25 | 20° 0 | 24°19 | 25°51 | 21°53 | 17°49 | 6°49 | 28°41 | 1° 3 | 5°35 | 6°12 | 5°26 | 15°25 | 11°25 | S 7 |
| M 8 | 19 6 33 | 16°20'36 | 4) 5 | 23°45 | 25°32 | 22°34 | 17°53 | 6°45 | 28°45 | 1° 3 | 5°37 | 6° 4 | 5°22 | 15°32 | 11°32 | M 8 |
| T 9 | 19 10 30 | 17°17'48 | 18°14 | 23° 9 | 25°16 | 23°15 | 17°58 | 6°41 | 28°48 | 1° 2 | 5°38 | 5°59 | 5°19 | 15°39 | 11°39 | T 9 |
| W10 | 19 14 26 | 18°15'00 | 2 Y 25 | 22°31 | 25° 2 | 23°55 | 18° 2 | 6°37 | 28°52 | 1° 2 | 5°40 | 5°56 | 5°16 | 15°45 | 11°47 | W10 |
| T 11 | 19 18 23 | 19°12'13 | 16°35 | 21°51 | 24°50 | 24°36 | 18° 7 | 6°33 | 28°55 | 1° 2 | 5°42 | 5°D55 | 5°13 | 15°52 | 11°54 | T 11 |
| F 12 | 19 22 20 | 20° 9'27 | 0 8 42 | 21°11 | 24°41 | 25°16 | 18°12 | 6°29 | 28°59 | 1° 2 | 5°43 | 5°R56 | 5°10 | 15°58 | 12° 2 | F 12 |
| S 13 | 19 26 16 | 21° 6'41 | 14°45 | 20°31 | 24°34 | 25°57 | 18°17 | 6°24 | 29° 2 | 1° 1 | 5°45 | 5°55 | 5° 6 | 16° 5 | 12° 9 | S 13 |
| S 14 | 19 30 13 | 22° 3'56 | 28°45 | 19°51 | 24°30 | 26°37 | 18°22 | 6°20 | 29° 5 | 1° 1 | 5°47 | 5°54 | 5° 3 | 16°12 | 12°17 | S 14 |
| M15 | 19 34 9 | 23° 1'13 | 12 Ⅲ 38 | 19°13 | 24°D28 | 27°18 | 18°27 | 6°16 | 29° 9 | 1° 1 | 5°49 | 5°50 | 5° 0 | 16°18 | 12°25 | M15 |
| T 16 | 19 38 6 | 23°58'29 | 26°24 | 18°38 | 24°28 | 27°58 | 18°33 | 6°12 | 29°12 | 1° 0 | 5°50 | 5°43 | 4°57 | 16°25 | 12°32 | T 16 |
| W17 | 19 42 2 | 24°55'47 | 9959 | 18° 5 | 24°31 | 28°39 | 18°38 | 6° 7 | 29°15 | 1° 0 | 5°52 | 5°34 | 4°54 | 16°32 | 12°40 | W17 |
| T 18 | 19 45 59 | 25°53'05 | 23°22 | 17°35 | 24°36 | 29°19 | 18°44 | 6° 3 | 29°19 | 0°59 | 5°54 | 5°22 | 4°51 | 16°38 | 12°47 | T 18 |
| F 19 | 19 49 55 | 26°50'24 | 6Ω 29 | 17°10 | 24°43 | 29°59 | 18°50 | 5°59 | 29°22 | 0°59 | 5°56 | 5°10 | 4°47 | 16°45 | 12°55 | F 19 |
| S 20 | 19 53 52 | 27°47'43 | 19°21 | 16°49 | 24°52 | 0939 | 18°56 | 5°54 | 29°25 | 0°58 | 5°57 | 4°57 | 4°44 | 16°52 | 13° 3 | S 20 |
| S 21 | 19 57 49 | 28°45'03 | 1 m 55 | 16°33 | 25° 3 | 1°19 | 19° 2 | 5°50 | 29°29 | 0°58 | 5°59 | 4°46 | 4°41 | 16°58 | 13°11 | S 21 |
| M22 | 20 1 45 | 29°42'23 | 14°13 | 16°22 | 25°17 | 1°59 | 19° 8 | 5°45 | 29°32 | 0°57 | 6° 1 | 4°38 | 4°38 | 17° 5 | 13°18 | M22 |
| T 23 | 20 5 42 | 0 Ω 39'44 | 26°18 | 16°D17 | 25°32 | 2°39 | 19°15 | 5°41 | 29°35 | 0°57 | 6° 3 | 4°31 | 4°35 | 17°12 | 13°26 | T 23 |
| W24 | 20 9 38 | 1°37'05 | 8 ≏ 13 | 16°18 | 25°49 | 3°19 | 19°21 | 5°36 | 29°38 | 0°56 | 6° 4 | 4°28 | 4°31 | 17°18 | 13°34 | W24 |
| T 25 | 20 13 35 | 2°34'27 | 20° 2 | 16°25 | 26° 8 | 3°59 | 19°28 | 5°32 | 29°41 | 0°55 | 6° 6 | 4°26 | 4°28 | 17°25 | 13°42 | T 25 |
| F 26 | 20 17 31 | 3°31'50 | 1 M 51 | 16°38 | 26°29 | 4°39 | 19°35 | 5°28 | 29°45 | 0°55 | 6° 8 | 4°26 | 4°25 | 17°32 | 13°50 | F 26 |
| S 27 | 20 21 28 | 4°29'13 | 13°44 | 16°58 | 26°52 | 5°19 | 19°42 | 5°23 | 29°48 | 0°54 | 6°10 | 4°26 | 4°22 | 17°38 | 13°57 | S 27 |
| S 28 | 20 25 24 | 5°26'37 | 25°48 | 17°23 | 27°16 | 5°59 | 19°49 | 5°19 | 29°51 | 0°53 | 6°11 | 4°25 | 4°19 | 17°45 | 14° 5 | S 28 |
| M29 | 20 29 21 | 6°24'02 | 8 才 8 | 17°56 | 27°42 | 6°38 | 19°56 | 5°14 | 29°54 | 0°53 | 6°13 | 4°22 | 4°16 | 17°52 | 14°13 | M29 |
| T 30 | 20 33 18 | 7°21'27 | 20°47 | 18°34 | 28° 9 | 7°18 | 20° 4 | 5°10 | 29°57 | 0°52 | 6°15 | 4°17 | 4°12 | 17°58 | 14°21 | T 30 |
| W31 | 20 37 14 | 8 Ω 18'53 | 3 ⋜ 49 | 199519 | 28耳38 | 7957 | 20 ≏ 11 | 5≈ 5 | 29∏59 | 0 Υ 51 | 6 Ω 17 | 4M 9 | 4M 9 | 18 ♀ 5 | 14 Ω 29 | W31 |

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|------|--------------------|------------------|-----------------|---------------|--------|-------|----------------|-------|-------|---------------|---------------|----------------|---------------|----------------|----------------|------|
| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)Å(| ¥ | В | U | v | Ç | Š, | Day |
| T 1 | 20 41 11 | 9 Ω 16'20 | 17 る 15 | 209510 | 29Ⅱ 9 | 8937 | 20 ≏ 19 | 5°R 1 | 0න 3 | 0°R50 | 6 Ω 18 | 3°R59 | 4M 6 | 18 ≏ 12 | 14 Ω 37 | T 1 |
| F 2 | 20 45 7 | 10°13'48 | 1≈ 4 | 21° 7 | 29°40 | 9°16 | 20°27 | 4≈56 | 0° 6 | 0 Υ 49 | 6°20 | 3 M .48 | 4° 3 | 18°18 | 14°45 | F 2 |
| S 3 | 20 49 4 | 11°11'17 | 15°13 | 22°10 | 09୍ତ14 | 9°56 | 20°34 | 4°52 | 0° 9 | 0°48 | 6°22 | 3°36 | 4° 0 | 18°25 | 14°53 | S 3 |
| S 4 | 20 53 0 | 12° 8'47 | 29°36 | 23°19 | 0°48 | 10°35 | 20°42 | 4°48 | 0°12 | 0°47 | 6°24 | 3°26 | 3°57 | 18°31 | 15° 1 | S 4 |
| M 5 | 20 56 57 | 13° 6'18 | 14) (7 | 24°33 | 1°24 | 11°15 | 20°51 | 4°43 | 0°14 | 0°46 | 6°25 | 3°17 | 3°53 | 18°38 | 15° 9 | M 5 |
| T 6 | 21 0 53 | 14° 3'50 | 28°39 | 25°53 | 2° 1 | 11°54 | 20°59 | 4°39 | 0°17 | 0°45 | 6°27 | 3°11 | 3°50 | 18°45 | 15°17 | T 6 |
| W 7 | 21 4 50 | 15° 1'24 | 13 ° 7 | 27°19 | 2°39 | 12°33 | 21° 7 | 4°34 | 0°20 | 0°44 | 6°29 | 3° 8 | 3°47 | 18°51 | 15°24 | W 7 |
| T 8 | 21 8 47 | 15°58'59 | 27°28 | 28°49 | 3°19 | 13°12 | 21°16 | 4°30 | 0°23 | 0°43 | 6°31 | 3°D 7 | 3°44 | 18°58 | 15°32 | T 8 |
| F 9 | 21 12 43 | 16°56'36 | 11838 | 0 Ω 23 | 3°59 | 13°51 | 21°24 | 4°26 | 0°26 | 0°42 | 6°32 | 3°R 7 | 3°41 | 19° 5 | 15°40 | F 9 |
| S 10 | 21 16 40 | 17°54'14 | 25°36 | 2° 2 | 4°41 | 14°31 | 21°33 | 4°22 | 0°28 | 0°41 | 6°34 | 3° 7 | 3°37 | 19°11 | 15°48 | S 10 |
| S 11 | 21 20 36 | 18°51'54 | 9П23 | 3°45 | 5°23 | 15°10 | 21°42 | 4°17 | 0°31 | 0°40 | 6°36 | 3° 5 | 3°34 | 19°18 | 15°56 | S 11 |
| M12 | 21 24 33 | 19°49'36 | 22°58 | 5°31 | 6° 7 | 15°49 | 21°51 | 4°13 | 0°34 | 0°39 | 6°38 | 3° 1 | 3°31 | 19°25 | 16° 4 | M12 |
| T 13 | 21 28 29 | 20°47'19 | 69522 | 7°20 | 6°51 | 16°28 | 22° 0 | 4° 9 | 0°36 | 0°38 | 6°39 | 2°55 | 3°28 | 19°31 | 16°12 | T 13 |
| W14 | 21 32 26 | 21°45'04 | 19°34 | 9°12 | 7°36 | 17° 6 | 22° 9 | 4° 5 | 0°39 | 0°36 | 6°41 | 2°46 | 3°25 | 19°38 | 16°20 | W14 |
| T 15 | 21 36 22 | 22°42'50 | 2 Ω 35 | 11° 6 | 8°23 | 17°45 | 22°18 | 4° 1 | 0°41 | 0°35 | 6°43 | 2°35 | 3°22 | 19°45 | 16°28 | T 15 |
| F 16 | 21 40 19 | 23°40'38 | 15°23 | 13° 2 | 9°10 | 18°24 | 22°27 | 3°57 | 0°44 | 0°34 | 6°45 | 2°23 | 3°18 | 19°51 | 16°36 | F 16 |
| S 17 | 21 44 16 | 24°38'27 | 27°58 | 14°59 | 9°57 | 19° 3 | 22°37 | 3°52 | 0°46 | 0°33 | 6°46 | 2°12 | 3°15 | 19°58 | 16°44 | S 17 |
| S 18 | 21 48 12 | 25°36'18 | 10 m)19 | 16°58 | 10°46 | 19°41 | 22°46 | 3°48 | 0°49 | 0°31 | 6°48 | 2° 1 | 3°12 | 20° 5 | 16°52 | S 18 |
| M19 | 21 52 9 | 26°34'10 | 22°29 | 18°57 | 11°35 | 20°20 | 22°56 | 3°45 | 0°51 | 0°30 | 6°50 | 1°53 | 3° 9 | 20°11 | 17° 0 | M19 |
| T 20 | 21 56 5 | 27°32'03 | 4 <u>₽</u> 28 | 20°57 | 12°25 | 20°59 | 23° 6 | 3°41 | 0°53 | 0°29 | 6°51 | 1°47 | 3° 6 | 20°18 | 17° 8 | T 20 |
| W21 | 22 0 2 | 28°29'58 | 16°20 | 22°56 | 13°16 | 21°37 | 23°16 | 3°37 | 0°56 | 0°27 | 6°53 | 1°43 | 3° 3 | 20°24 | 17°16 | W21 |
| T 22 | 22 3 58 | 29°27'54 | 28° 7 | 24°56 | 14° 8 | 22°16 | 23°25 | 3°33 | 0°58 | 0°26 | 6°55 | 1°D42 | 2°59 | 20°31 | 17°23 | T 22 |
| F 23 | 22 7 55 | 0 m 25'51 | 9 M 54 | 26°55 | 15° 0 | 22°54 | 23°36 | 3°29 | 1° 0 | 0°25 | 6°56 | 1°42 | 2°56 | 20°38 | 17°31 | F 23 |
| S 24 | 22 11 51 | 1°23'50 | 21°46 | 28°54 | 15°52 | 23°32 | 23°46 | 3°26 | 1° 2 | 0°23 | 6°58 | 1°43 | 2°53 | 20°44 | 17°39 | S 24 |
| S 25 | 22 15 48 | 2°21'51 | 3 ∡7 49 | 0 m 52 | 16°46 | 24°11 | 23°56 | 3°22 | 1° 5 | 0°22 | 7° 0 | 1°R43 | 2°50 | 20°51 | 17°47 | S 25 |
| M26 | 22 19 44 | 3°19'52 | 16° 7 | 2°49 | 17°40 | 24°49 | 24° 6 | 3°18 | 1° 7 | 0°21 | 7° 1 | 1°42 | 2°47 | 20°58 | 17°55 | M26 |
| T 27 | 22 23 41 | 4°17'55 | 28°46 | 4°45 | 18°34 | 25°27 | 24°16 | 3°15 | 1° 9 | 0°19 | 7° 3 | 1°39 | 2°43 | 21° 4 | 18° 3 | T 27 |
| W28 | 22 27 38 | 5°16'00 | 11 궁 50 | 6°40 | 19°29 | 26° 5 | 24°27 | 3°11 | 1°11 | 0°18 | 7° 4 | 1°34 | 2°40 | 21°11 | 18°10 | W28 |
| T 29 | 22 31 34 | 6°14'06 | 25°21 | 8°34 | 20°25 | 26°43 | 24°37 | 3° 8 | 1°13 | 0°16 | 7° 6 | 1°27 | 2°37 | 21°18 | 18°18 | T 29 |
| F 30 | 22 35 31 | 7°12'13 | 9≈19 | 10°28 | 21°21 | 27°21 | 24°48 | 3° 5 | 1°15 | 0°15 | 7° 8 | 1°19 | 2°34 | 21°24 | 18°26 | F 30 |
| S 31 | 22 39 27 | 8 mg 10'22 | 23≈41 | 12 Mp 20 | 229517 | 27959 | 24 Ω 59 | 3≈ 2 | 19917 | 0 Υ 13 | 7 Ω 9 | 1 M .11 | 2 M 31 | 21 ≏ 31 | 18 Ω 34 | S 31 |
| | | • | ı | | I | I | 1 | | | | | | I | I | | |

Delta T = 15.17 sec

SEPTEMBER 1697 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q | ♂ | 4 | ħ |)Å(| 并 | Р | u | ß | ţ | ę, | Day |
|------|----------|-------------------|-----------------|----------------|----------------|----------------|----------------|-------|-------|----------------|---------------|----------------|----------------|----------------|-----------------|------|
| S 1 | 22 43 24 | 9 m , 8'33 | 8) 22 | 14 Mp 10 | 239514 | 28937 | 25 ♀ 10 | 2°R58 | 19518 | 0°R12 | 7 Ω 11 | 1°R 3 | 2 M 28 | 21 ≏ 38 | 18 Ω 41 | S 1 |
| M 2 | 22 47 20 | 10° 6'45 | 23°15 | 16° 0 | 24°12 | 29°15 | 25°20 | 2≈55 | 1°20 | 0 Υ 10 | 7°12 | 0 M 57 | 2°24 | 21°44 | 18°49 | M 2 |
| T 3 | 22 51 17 | 11° 4'59 | 8 Υ 11 | 17°49 | 25°10 | 29°53 | 25°31 | 2°52 | 1°22 | 0° 9 | 7°14 | 0°53 | 2°21 | 21°51 | 18°57 | T 3 |
| W 4 | 22 55 13 | 12° 3'15 | 23° 2 | 19°36 | 26° 9 | 0 Ω 31 | 25°42 | 2°49 | 1°24 | 0° 7 | 7°15 | 0°51 | 2°18 | 21°58 | 19° 4 | W 4 |
| T 5 | 22 59 10 | 13° 1'33 | 7 8 41 | 21°22 | 27° 7 | 1° 9 | 25°54 | 2°46 | 1°25 | 0° 5 | 7°17 | 0°D51 | 2°15 | 22° 4 | 19°12 | T 5 |
| F 6 | 23 3 7 | 13°59'54 | 22° 4 | 23° 7 | 28° 7 | 1°46 | 26° 5 | 2°44 | 1°27 | 0° 4 | 7°18 | 0°52 | 2°12 | 22°11 | 19°19 | F 6 |
| S 7 | 23 7 3 | 14°58'16 | 6 I 9 | 24°51 | 29° 7 | 2°24 | 26°16 | 2°41 | 1°28 | 0° 2 | 7°20 | 0°53 | 2° 8 | 22°17 | 19°27 | S 7 |
| S 8 | 23 11 0 | 15°56'41 | 19°54 | 26°34 | oΩ 7 | 3° 1 | 26°27 | 2°38 | 1°30 | 0° 1 | 7°21 | 0°R53 | 2° 5 | 22°24 | 19°35 | S 8 |
| M 9 | 23 14 56 | 16°55'08 | 39522 | 28°16 | 1° 7 | 3°39 | 26°39 | 2°36 | 1°31 | 29 米 59 | 7°23 | 0°52 | 2° 2 | 22°31 | 19°42 | M 9 |
| T 10 | 23 18 53 | 17°53'37 | 16°32 | 29°57 | 2° 8 | 4°16 | 26°50 | 2°33 | 1°33 | 29°57 | 7°24 | 0°48 | 1°59 | 22°37 | 19°49 | T 10 |
| W11 | 23 22 49 | 18°52'08 | 29°28 | 1 ≏ 36 | 3°10 | 4°54 | 27° 2 | 2°31 | 1°34 | 29°56 | 7°25 | 0°43 | 1°56 | 22°44 | 19°57 | W11 |
| T 12 | 23 26 46 | 19°50'41 | 12 Ω 10 | 3°15 | 4°11 | 5°31 | 27°13 | 2°29 | 1°36 | 29°54 | 7°27 | 0°37 | 1°53 | 22°51 | 20° 4 | T 12 |
| F 13 | 23 30 42 | 20°49'17 | 24°39 | 4°52 | 5°13 | 6° 9 | 27°25 | 2°26 | 1°37 | 29°53 | 7°28 | 0°30 | 1°49 | 22°57 | 20°12 | F 13 |
| S 14 | 23 34 39 | 21°47'54 | 6 m 57 | 6°29 | 6°15 | 6°46 | 27°36 | 2°24 | 1°38 | 29°51 | 7°29 | 0°23 | 1°46 | 23° 4 | 20°19 | S 14 |
| S 15 | 23 38 36 | 22°46'33 | 19° 6 | 8° 4 | 7°18 | 7°23 | 27°48 | 2°22 | 1°39 | 29°49 | 7°31 | 0°16 | 1°43 | 23°11 | 20°26 | S 15 |
| M16 | 23 42 32 | 23°45'15 | 1₾ 6 | 9°39 | 8°21 | 8° 0 | 28° 0 | 2°20 | 1°40 | 29°48 | 7°32 | 0°11 | 1°40 | 23°17 | 20°33 | M16 |
| T 17 | 23 46 29 | 24°43'58 | 12°58 | 11°12 | 9°24 | 8°37 | 28°12 | 2°18 | 1°41 | 29°46 | 7°33 | 0° 8 | 1°37 | 23°24 | 20°41 | T 17 |
| W18 | 23 50 25 | 25°42'43 | 24°46 | 12°45 | 10°28 | 9°14 | 28°24 | 2°17 | 1°42 | 29°44 | 7°35 | 0°D 6 | 1°34 | 23°31 | 20°48 | W18 |
| T 19 | 23 54 22 | 26°41'30 | 6MJ32 | 14°16 | 11°32 | 9°51 | 28°36 | 2°15 | 1°43 | 29°43 | 7°36 | 0° 6 | 1°30 | 23°37 | 20°55 | T 19 |
| F 20 | 23 58 18 | 27°40'19 | 18°20 | 15°47 | 12°36 | 10°28 | 28°48 | 2°13 | 1°44 | 29°41 | 7°37 | 0° 8 | 1°27 | 23°44 | 21° 2 | F 20 |
| S 21 | 0 2 15 | 28°39'10 | 0 才 12 | 17°16 | 13°40 | 11° 5 | 29° 0 | 2°12 | 1°45 | 29°39 | 7°38 | 0° 9 | 1°24 | 23°51 | 21° 9 | S 21 |
| S 22 | 0 611 | 29°38'03 | 12°14 | 18°45 | 14°45 | 11°42 | 29°12 | 2°10 | 1°46 | 29°38 | 7°40 | 0°11 | 1°21 | 23°57 | 21°16 | S 22 |
| M23 | 0 10 8 | 0 ჲ 36'57 | 24°30 | 20°13 | 15°50 | 12°18 | 29°24 | 2° 9 | 1°47 | 29°36 | 7°41 | 0°12 | 1°18 | 24° 4 | 21°23 | M23 |
| T 24 | 0 14 5 | 1°35'53 | 7る 6 | 21°39 | 16°55 | 12°55 | 29°37 | 2° 8 | 1°48 | 29°34 | 7°42 | 0°R12 | 1°14 | 24°10 | 21°30 | T 24 |
| W25 | 0 18 1 | 2°34'51 | 20° 5 | 23° 5 | 18° 1 | 13°31 | 29°49 | 2° 7 | 1°48 | 29°33 | 7°43 | 0°11 | 1°11 | 24°17 | 21°37 | W25 |
| T 26 | 0 21 58 | 3°33'51 | 3≈31 | 24°30 | 19° 6 | 14° 8 | OM 1 | 2° 6 | 1°49 | 29°31 | 7°44 | 0° 9 | 1° 8 | 24°24 | 21°43 | T 26 |
| F 27 | 0 25 54 | 4°32'53 | 17°25 | 25°53 | 20°12 | 14°44 | 0°14 | 2° 5 | 1°49 | 29°29 | 7°45 | 0° 5 | 1° 5 | 24°30 | 21°50 | F 27 |
| S 28 | 0 29 51 | 5°31'56 | 1) (47 | 27°16 | 21°18 | 15°21 | 0°26 | 2° 4 | 1°50 | 29°28 | 7°46 | 0° 2 | 1° 2 | 24°37 | 21°57 | S 28 |
| S 29 | 0 33 47 | 6°31'01 | 16°32 | 28°37 | 22°25 | 15°57 | 0°39 | 2° 3 | 1°50 | 29°26 | 7°47 | 29 ≙ 59 | 0°59 | 24°44 | 22° 3 | S 29 |
| M30 | 0 37 44 | 7 ≏ 30'08 | 1 Y 34 | 29 ≏ 58 | 23 N 31 | 16 Ω 33 | 0 M .51 | 2≈ 3 | 1951 | 29 米 24 | 7 Ω 48 | 29 ≙ 56 | 0 M .55 | 24 ₽ 50 | 22 \O 10 | M30 |

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Greg. Calendar

| ACTARER 1607 CC | 00.00 UT |
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| OCTOBER 1697 GC | 00:00 UT |

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)Å(| ¥ | Р | ₽. | ಬ | Ç | ę, | Day |
|--------------|--------------------|----------------------|---------------------------|----------------|----------------|----------------|---------------|--------------|--------------|----------------|---------------|-----------------|----------------|----------------|-----------------|--------------|
| T 1 | 0 41 40 | 8 ≏ 29'17 | 16 Y 45 | 1 M 17 | 24€38 | 17 Ω 10 | 1 m 4 | 2°R 2 | 1951 | 29°R23 | 7 Ω 49 | 29°R55 | 0 M .52 | 24 ≙ 57 | 22 \O 16 | T 1 |
| W 2 | 0 45 37 | 9°28'28 | 1854 | 2°34 | 25°45 | 17°46 | 1°16 | 2≈ 2 | 1°51 | 29 米 21 | 7°50 | 29°D54 | 0°49 | 25° 4 | 22°23 | W 2 |
| T 3 | 0 49 33 | 10°27'41 | 16°53 | 3°51 | 26°53 | 18°22 | 1°29 | 2° 1 | 1°52 | 29°19 | 7°51 | 29 Ω 55 | 0°46 | 25°10 | 22°29 | T 3 |
| F 4 | 0 53 30 | 11°26'57 | 1 II 34 | 5° 6 | 28° 0 | 18°58 | 1°42 | 2° 1 | 1°52 | 29°18 | 7°52 | 29°56 | 0°43 | 25°17 | 22°35 | F 4 |
| S 5 | 0 57 27 | 12°26'15 | 15°53 | 6°20 | 29° 8 | 19°34 | 1°54 | 2° 1 | 1°52 | 29°16 | 7°53 | 29°57 | 0°40 | 25°24 | 22°42 | S 5 |
| S 6 | 1 1 23 | 13°25'36 | 29°48 | 7°32 | 0 m 16 | 20°10 | 2° 7 | 2°D 1 | 1°52 | 29°15 | 7°54 | 29°58 | 0°36 | 25°30 | 22°48 | S 6 |
| M 7 | 1 5 20 | 14°24'58 | 139518 | 8°42 | 1°24 | 20°45 | 2°20 | 2° 1 | 1°R52 | 29°13 | 7°55 | 29°R59 | 0°33 | 25°37 | 22°54 | M 7 |
| T 8 | 1 9 16 | 15°24'23 | 26°26 | 9°50 | 2°32 | 21°21 | 2°33 | 2° 1 | 1°52 | 29°11 | 7°56 | 29°58 | 0°30 | 25°43 | 23° 0 | T 8 |
| W 9 | 1 13 13 | 16°23'51 | 9 Ω 13 | 10°57 12° 1 | 3°40 | 21°57 | 2°45 | 2° 1 2° 2 | 1°52 | 29°10 29° 8 | 7°57 | 29°57 | 0°27 | 25°50 | 23° 6 23°12 | W 9 |
| T 10 F 11 | 1 17 9 1 21 6 | 17°23'20 18°22'52 | 21°44 4 m) 0 | 12° 1 13° 3 | 4°49 5°58 | 22°32 23° 8 | 2°58 3°11 | 2° 2 | 1°52 1°52 | 29° 8 29° 7 | 7°57 7°58 | 29°56 29°54 | 0°24 0°20 | 25°57 26° 3 | 23°12 23°18 | T 10 F 11 |
| S 12 | 1 21 6 | 18 22 32 19°22'26 | 16° 6 | 13 3 14° 2 | 7° 7 | 23°43 | 3°24 | 2° 3 | 1°51 | 29° 5 | 7°59 | 29°52 | 0°17 | 26°10 | 23°24 | S 12 |
| | | | | | | | _ | | | | | | | | | |
| S 13 | 1 28 59 | 20°22'03 | 28° 3 | 14°58 | 8°16 | 24°19 | 3°37 | 2° 3 | 1°51 | 29° 4 | 8° 0 | 29°51 | 0°14 | 26°17 | 23°30 | S 13 |
| M14 | 1 32 56 | 21°21'41 | 9 Ω 55 | 15°51 | 9°25 | 24°54 | 3°50 | 2° 4 | 1°51 | 29° 2 | 8° 0 | 29°50 | 0°11 | 26°23 | 23°35 | M14 |
| T 15 | 1 36 52 | 22°21'22 | 21°43 | 16°41 | 10°35 | 25°29 26° 5 | 4° 3 | 2° 5 | 1°50 | 29° 1 | 8° 1 | 29°50 | 0° 8 0° 5 | 26°30 | 23°41 | T 15 |
| W16 T 17 | 1 40 49 1 44 45 | 23°21'04 24°20'49 | 3 M .30 15°18 | 17°26 18° 8 | 11°45 12°54 | 26° 5 26°40 | 4°16 4°29 | 2° 6 2° 7 | 1°50 1°49 | 28°59 28°58 | 8° 2 8° 2 | 29°D50 29°50 | 0° 5 | 26°37 26°43 | 23°46 23°52 | W16 T 17 |
| F 18 | 1 44 43 | 25°20'35 | 27° 9 | 18°45 | 14° 4 | 20°40 27°15 | 4°42 | 2° 8 | 1°49 | 28°56 | 8° 3 | 29°50 | 29 <u>0</u> 58 | 26°50 | 23°57 | F 18 |
| S 19 | 1 52 38 | 26°20'24 | 9 x ⁷ 6 | 19°16 | 15°14 | 27°50 | 4°55 | 2°10 | 1°48 | 28°55 | 8° 4 | 29°51 | 29°55 | 26°57 | 24° 2 | S 19 |
| | | | | | | | | - | | | - | | | | | |
| S 20 M21 | 1 56 35 2 0 31 | 27°20'14 28°20'06 | 21°12 3 ♂ 31 | 19°42 20° 1 | 16°25 17°35 | 28°24 28°59 | 5° 8 5°21 | 2°11 2°13 | 1°47 1°47 | 28°53 28°52 | 8° 4 8° 5 | 29°51 29°51 | 29°52 29°49 | 27° 3 27°10 | 24° 8 24°13 | S 20 M21 |
| T 22 | 2 4 28 | 28°20'00 29°20'00 | 16° 6 | 20°14 | 17°35 18°45 | 28°39 29°34 | 5°34 | 2°13 | 1°47 | 28°52 28°50 | 8° 5 | 29°51 | 29°49 29°45 | 27°10 27°17 | 24°13 | T 22 |
| W23 | 2 8 25 | 0ML19'55 | 29° 0 | 20°R19 | 19°56 | 0 m) 8 | 5°48 | 2°16 | 1°45 | 28°49 | 8° 6 | 29°51 | 29°42 | 27°23 | 24°23 | W23 |
| T 24 | 2 12 21 | 1°19'52 | 12≈17 | 20°16 | 21° 7 | 0°43 | 6° 1 | 2°18 | 1°44 | 28°48 | 8° 6 | 29°51 | 29°39 | 27°30 | 24°28 | T 24 |
| F 25 | 2 16 18 | 2°19'50 | 26° 0 | 20° 4 | 22°18 | 1°17 | 6°14 | 2°19 | 1°43 | 28°46 | 8° 6 | 29°52 | 29°36 | 27°36 | 24°32 | F 25 |
| S 26 | 2 20 14 | 3°19'50 | 10 ∀ 9 | 19°43 | 23°29 | 1°52 | 6°27 | 2°21 | 1°42 | 28°45 | 8° 7 | 29°52 | 29°33 | 27°43 | 24°37 | S 26 |
| S 27 | 2 24 11 | 4°19'52 | 24°43 | 19°13 | 24°40 | 2°26 | 6°40 | 2°23 | 1°41 | 28°44 | 8° 7 | 29°52 | 29°30 | 27°50 | 24°42 | S 27 |
| M28 | 2 28 7 | 5°19'56 | 9 Υ 37 | 18°33 | 25°51 | 3° 0 | 6°53 | 2°26 | 1°40 | 28°43 | 8° 7 | 29°53 | 29°26 | 27°56 | 24°46 | M28 |
| T 29 | 2 32 4 | 6°20'01 | 24°45 | 17°44 | 27° 2 | 3°34 | 7° 6 | 2°28 | 1°39 | 28°41 | 8° 8 | 29°R53 | 29°23 | 28° 3 | 24°51 | T 29 |
| W30 | 2 36 0 | 7°20'08 | 9 8 59 | 16°46 | 28°14 | 4° 8 | 7°20 | 2°30 | 1°38 | 28°40 | 8° 8 | 29°53 | 29°20 | 28°10 | 24°55 | W30 |
| T 31 | 2 39 57 | 8M20'17 | 25 8 8 | 15 M 41 | 29 m 25 | 4 Mp 42 | 7 M 33 | 2≈33 | 1937 | 28) 39 | 8 N 8 | 29 ჲ 52 | 29 ≙ 17 | 28 ≏ 16 | 24 N 59 | T 31 |

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NOVEMBER 1697 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)វ(| 并 | Р | P | ß | ţ | Ŷ, | Day |
|--------------|--------------------|--------------------------------|------------------------|--------------------------|----------------|--------------------------|-----------------|-----------------------|--------------|--------------------|-------------------|-------------------------|--------------------|----------------|------------------------------|--------------|
| F 1 | 2 43 53 | 9 m 20'27 | 10耳 3 | 14°R28 | 0 ჲ 37 | 5 m 16 | 7 M .46 | 2≈35 | 1°R36 | 28°R38 | 8 N 8 | 29°R51 | 29 ≙ 14 | 28 ₾ 23 | 25 N 3 | F 1 |
| S 2 | 2 47 50 | 10°20'40 | 24°37 | 13 M .12 | 1°49 | 5°50 | 7°59 | 2°38 | 1934 | 28) 37 | 8° 9 | 29 ≏ 50 | 29°11 | 28°30 | 25° 7 | S 2 |
| S 3 | 2 51 47 | 11°20'55 | 89544 | 11°52 | 3° 1 | 6°23 | 8°12 | 2°41 | 1°33 | 28°35 | 8° 9 | 29°49 | 29° 7 | 28°36 | 25°11 | S 3 |
| M 4 | 2 55 43 | 12°21'12 | 22°25 | 10°33 | 4°13 | 6°57 | 8°25 | 2°43 | 1°32 | 28°34 | 8° 9 | 29°48 | 29° 4 | 28°43 | 25°15 | M 4 |
| T 5 | 2 59 40 | 13°21'31 | 5 Ω 38 | 9°17 | 5°25 | 7°30 | 8°39 | 2°46 | 1°30 | 28°33 | 8° 9 | 29°47 | 29° 1 | 28°50 | 25°19 | T 5 |
| W 6 T 7 | 3 3 36 3 7 33 | 14°21'52 15°22'14 | 18°26 0 m 53 | 8° 6 7° 2 | 6°37 7°49 | 8° 4 8°37 | 8°52 9°5 | 2°49 2°53 | 1°29 1°27 | 28°32 28°31 | 8° 9 8° 9 | 29°D47 29°47 | 28°58 28°55 | 28°56 29° 3 | 25°23 25°26 | W 6 T 7 |
| F 8 | 3 11 29 | 16°22'39 | 13° 4 | 6° 7 | 9° 2 | 9°10 | 9°18 | 2°56 | 1°26 | 28°30 | 8°R 9 | 29°49 | 28°51 | 29° 9 | 25°30 | F 8 |
| S 9 | 3 15 26 | 17°23'06 | 25° 3 | 5°23 | 10°14 | 9°43 | 9°31 | 2°59 | 1°24 | 28°29 | 8° 9 | 29°50 | 28°48 | 29°16 | 25°33 | S 9 |
| S 10 | 3 19 22 | 18°23'34 | 6 ₽ 55 | 4°50 | 11°27 | 10°16 | 9°44 | 3° 2 | 1°22 | 28°28 | 8° 9 | 29°52 | 28°45 | 29°23 | 25°37 | S 10 |
| M11 | 3 23 19 | 19°24'04 | 18°42 | 4°28 | 12°40 | 10°49 | 9°57 | 3° 6 | 1°21 | 28°27 | 8° 9 | 29°53 | 28°42 | 29°29 | 25°40 | M11 |
| T 12 | 3 27 16 | 20°24'36 | 0 M 28 | 4°D19 | 13°52 | 11°21 | 10°10 | 3° 9 | 1°19 | 28°26 | 8° 9 | 29°R53 | 28°39 | 29°36 | 25°43 | T 12 |
| W13 T 14 | 3 31 12 3 35 9 | 21°25'10 22°25'45 | 12°17 | 4°20 4°33 | 15° 5 16°18 | 11°54 12°26 | 10°24 10°37 | 3°13 3°17 | 1°17 1°15 | 28°26 28°25 | 8° 9 8° 9 | 29°53 29°51 | 28°36 28°32 | 29°43 29°49 | 25°46 25°49 | W13 T 14 |
| F 15 | 3 35 9 3 39 5 | 23°26'22 | 24°10 6 √ 10 | 4°55 | 10°18 | 12°26 12°59 | 10°57 10°50 | 3°17 | 1°13 | 28°24 | 8° 9 8° 9 | 29°51 29°48 | 28°32 28°29 | 29°49 29°56 | 25°52 | F 15 |
| S 16 | 3 43 2 | 24°27'00 | 18°18 | 5°26 | 18°44 | 13°31 | 11° 3 | 3°24 | 1°12 | 28°23 | 8° 8 | 29°44 | 28°26 | 0 m 3 | 25°54 | S 16 |
| S 17 | 3 46 58 | 25°27'39 | 0 ට 35 | 6° 5 | 19°57 | 14° 3 | 11°16 | 3°28 | 1°10 | 28°22 | 8° 8 | 29°39 | 28°23 | 0° 9 | 25°57 | S 17 |
| M18 | 3 50 55 | 26°28'20 | 13° 4 | 6°52 | 21°11 | 14°35 | 11°29 | 3°32 | 1°8 | 28°22 | 8° 8 | 29°35 | 28°20 | 0°16 | 25°59 | M18 |
| T 19 | 3 54 51 | 27°29'02 | 25°46 | 7°45 | 22°24 | 15° 7 | 11°42 | 3°37 | 1° 6 | 28°21 | 8° 8 | 29°31 | 28°17 | 0°23 | 26° 2 | T 19 |
| W20 T 21 | 3 58 48 4 2 45 | 28°29'46 29°30'30 | 8 ≈ 43 21°58 | 8°43 9°46 | 23°37 24°50 | 15°39 16°10 | 11°55 12° 7 | 3°41 3°45 | 1° 4 1° 2 | 28°20 28°20 | 8° 7 8° 7 | 29°28 29°27 | 28°13 28°10 | 0°29 0°36 | 26° 4 26° 6 | W20 T 21 |
| F 22 | 4 2 43 4 6 41 | 29°30'30' 0 × 731'15 | 5)(31 | 10°54 | 24°50 26° 4 | 16°10 | 12° 7 | 3°45 3°49 | 0°59 | 28°20 28°19 | 8° 7 | 29°27 29°D26 | 28° 7 | 0°42 | 26° 6 26° 8 | F 22 |
| S 23 | 4 10 38 | 1°32'01 | 19°25 | 12° 5 | 27°17 | 17°13 | 12°33 | 3°54 | 0°57 | 28°19 | 8° 6 | 29°27 | 28° 4 | 0°49 | 26°10 | S 23 |
| S 24 | 4 14 34 | 2°32'48 | 3 Υ40 | 13°19 | 28°31 | 17°44 | 12°46 | 3°58 | 0°55 | 28°18 | 8° 6 | 29°29 | 28° 1 | 0°56 | 26°12 | S 24 |
| M25 | 4 18 31 | 3°33'36 | 18°13 | 14°36 | 29°45 | 18°15 | 12°59 | 4° 3 | 0°53 | 28°18 | 8° 5 | 29°30 | 27°57 | 1° 2 | 26°14 | M25 |
| T 26 | 4 22 27 | 4°34'25 | 3 8 3 | 15°56 | 0 M .58 | 18°46 | 13°11 | 4° 8 | 0°51 | 28°17 | 8° 5 | 29°R31 | 27°54 | 1° 9 | 26°15 | T 26 |
| W27 | 4 26 24 | 5°35'15 | 18° 2 | 17°17 | 2°12 | 19°17 | 13°24 | 4°12 | 0°49 | 28°17 | 8° 4 | 29°29 | 27°51 | 1°16 | 26°17 | W27 |
| T 28 F 29 | 4 30 20 4 34 17 | 6°36'07 7°36'59 | 3 Ⅱ 3 17°56 | 18°40 20° 4 | 3°26 4°40 | 19°48 20°18 | 13°37 13°50 | 4°17 4°22 | 0°46 0°44 | 28°16 28°16 | 8° 4 8° 3 | 29°26 29°21 | 27°48 27°45 | 1°22 1°29 | 26°18 26°19 | T 28 F 29 |
| S 30 | 4 34 17 | 8 × ⁷ 37'52 | 2934 | 20° 4 21 M -30 | 5 M .53 | 20°18 20 m)49 | 13°30 14ML 2 | 4°22 4 ≈ 27 | 0942 | 28 X 16 | 8 \Omega 3 | 29°21 29 ₽ 15 | 27 ° 43 | 1 M 36 | $26^{\circ}19$ $26\Omega 20$ | S 30 |

Delta T = 15.07 sec

Greg. Calendar

| DECEMBER 1697 GC | 00:00 UT |
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|------|---------|-------------------|----------------|---------------|-----------------|------------------|-----------------|------|-------|----------------|--------------|----------------|----------------|---------------|----------------|------|
| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)ф(| ¥ | В | ₽. | ಬ | Ç | Š. | Day |
| S 1 | 4 42 10 | 9 ∡ ³38'47 | 16950 | 22M56 | 7 m 7 | 21 m) 19 | 14 M .15 | 4≈32 | 0°R39 | 28°R15 | 8°R 2 | 29°R 9 | 27 ₾ 38 | 1 M 42 | 26 Ω 21 | S 1 |
| M 2 | 4 46 7 | 10°39'43 | 0Ω 39 | 24°24 | 8°21 | 21°49 | 14°27 | 4°37 | 0937 | 28) 15 | 8 N 2 | 29 으 2 | 27°35 | 1°49 | 26°22 | M 2 |
| T 3 | 4 50 3 | 11°40'40 | 13°59 | 25°52 | 9°35 | 22°19 | 14°40 | 4°42 | 0°35 | 28°15 | 8° 1 | 28°57 | 27°32 | 1°56 | 26°23 | T 3 |
| W 4 | 4 54 0 | 12°41'38 | 26°53 | 27°21 | 10°49 | 22°48 | 14°52 | 4°48 | 0°32 | 28°15 | 8° 0 | 28°54 | 27°29 | 2° 2 | 26°24 | W 4 |
| T 5 | 4 57 56 | 13°42'37 | 9 m 24 | 28°50 | 12° 4 | 23°18 | 15° 4 | 4°53 | 0°30 | 28°15 | 8° 0 | 28°D53 | 27°26 | 2° 9 | 26°24 | T 5 |
| F 6 | 5 1 53 | 14°43'37 | 21°36 | 0 ₹ 20 | 13°18 | 23°47 | 15°17 | 4°58 | 0°27 | 28°15 | 7°59 | 28°53 | 27°23 | 2°16 | 26°25 | F 6 |
| S 7 | 5 5 50 | 15°44'39 | 3 ≏ 34 | 1°51 | 14°32 | 24°17 | 15°29 | 5° 4 | 0°25 | 28°14 | 7°58 | 28°54 | 27°19 | 2°22 | 26°25 | S 7 |
| S 8 | 5 9 46 | 16°45'42 | 15°23 | 3°21 | 15°46 | 24°46 | 15°41 | 5° 9 | 0°22 | 28°14 | 7°57 | 28°55 | 27°16 | 2°29 | 26°25 | S 8 |
| M 9 | 5 13 43 | 17°46'45 | 27° 9 | 4°52 | 17° 0 | 25°15 | 15°54 | 5°15 | 0°20 | 28°D14 | 7°57 | 28°R56 | 27°13 | 2°35 | 26°R25 | M 9 |
| T 10 | 5 17 39 | 18°47'50 | 8 M .56 | 6°24 | 18°15 | 25°43 | 16° 6 | 5°20 | 0°17 | 28°14 | 7°56 | 28°56 | 27°10 | 2°42 | 26°25 | T 10 |
| W11 | 5 21 36 | 19°48'55 | 20°49 | 7°55 | 19°29 | 26°12 | 16°18 | 5°26 | 0°15 | 28°15 | 7°55 | 28°53 | 27° 7 | 2°49 | 26°25 | W11 |
| T 12 | 5 25 32 | 20°50'01 | 2 √ 49 | 9°27 | 20°43 | 26°40 | 16°30 | 5°32 | 0°12 | 28°15 | 7°54 | 28°48 | 27° 3 | 2°55 | 26°25 | T 12 |
| F 13 | 5 29 29 | 21°51'08 | 15° 0 | 10°59 | 21°58 | 27° 8 | 16°42 | 5°38 | 0°10 | 28°15 | 7°53 | 28°40 | 27° 0 | 3° 2 | 26°25 | F 13 |
| S 14 | 5 33 25 | 22°52'16 | 27°23 | 12°31 | 23°12 | 27°36 | 16°54 | 5°43 | 0° 7 | 28°15 | 7°52 | 28°31 | 26°57 | 3° 9 | 26°24 | S 14 |
| S 15 | 5 37 22 | 23°53'24 | 9 る 58 | 14° 3 | 24°27 | 28° 4 | 17° 5 | 5°49 | 0° 5 | 28°15 | 7°51 | 28°20 | 26°54 | 3°15 | 26°24 | S 15 |
| M16 | 5 41 19 | 24°54'33 | 22°46 | 15°36 | 25°41 | 28°31 | 17°17 | 5°55 | 0° 2 | 28°15 | 7°50 | 28° 9 | 26°51 | 3°22 | 26°23 | M16 |
| T 17 | 5 45 15 | 25°55'42 | 5≈45 | 17° 9 | 26°56 | 28°58 | 17°29 | 6° 1 | 29∏59 | 28°16 | 7°49 | 27°59 | 26°48 | 3°29 | 26°22 | T 17 |
| W18 | 5 49 12 | 26°56'51 | 18°57 | 18°42 | 28°10 | 29°25 | 17°41 | 6° 7 | 29°57 | 28°16 | 7°48 | 27°51 | 26°44 | 3°35 | 26°21 | W18 |
| T 19 | 5 53 8 | 27°58'00 | 2) 20 | 20°15 | 29°25 | 29°52 | 17°52 | 6°14 | 29°54 | 28°16 | 7°47 | 27°46 | 26°41 | 3°42 | 26°20 | T 19 |
| F 20 | 5 57 5 | 28°59'09 | 15°55 | 21°48 | 0 х 40 | 0 ჲ 19 | 18° 4 | 6°20 | 29°52 | 28°17 | 7°46 | 27°43 | 26°38 | 3°49 | 26°19 | F 20 |
| S 21 | 6 1 1 | 0당 0'19 | 29°42 | 23°22 | 1°54 | 0°45 | 18°15 | 6°26 | 29°49 | 28°17 | 7°45 | 27°D42 | 26°35 | 3°55 | 26°18 | S 21 |
| S 22 | 6 4 58 | 1° 1'28 | 13 Y 43 | 24°56 | 3° 9 | 1°11 | 18°26 | 6°32 | 29°46 | 28°17 | 7°44 | 27°42 | 26°32 | 4° 2 | 26°17 | S 22 |
| M23 | 6 8 54 | 2° 2'37 | 27°56 | 26°30 | 4°23 | 1°37 | 18°38 | 6°38 | 29°44 | 28°18 | 7°43 | 27°R43 | 26°28 | 4° 8 | 26°15 | M23 |
| T 24 | 6 12 51 | 3° 3'46 | 12821 | 28° 4 | 5°38 | 2° 3 | 18°49 | 6°45 | 29°41 | 28°18 | 7°42 | 27°42 | 26°25 | 4°15 | 26°14 | T 24 |
| W25 | 6 16 48 | 4° 4'55 | 26°55 | 29°39 | 6°53 | 2°28 | 19° 0 | 6°51 | 29°39 | 28°19 | 7°41 | 27°39 | 26°22 | 4°22 | 26°12 | W25 |
| T 26 | 6 20 44 | 5° 6'05 | 11 Ⅲ 32 | 1 궁 14 | 8° 7 | 2°54 | 19°11 | 6°58 | 29°36 | 28°20 | 7°40 | 27°33 | 26°19 | 4°28 | 26°10 | T 26 |
| F 27 | 6 24 41 | 6° 7'14 | 26° 7 | 2°49 | 9°22 | 3°18 | 19°22 | 7° 4 | 29°34 | 28°20 | 7°39 | 27°24 | 26°16 | 4°35 | 26° 8 | F 27 |
| S 28 | 6 28 37 | 7° 8'23 | 10931 | 4°25 | 10°37 | 3°43 | 19°33 | 7°11 | 29°31 | 28°21 | 7°38 | 27°13 | 26°13 | 4°42 | 26° 6 | S 28 |
| S 29 | 6 32 34 | 8° 9'32 | 24°40 | 6° 1 | 11°52 | 4° 7 | 19°44 | 7°17 | 29°28 | 28°22 | 7°36 | 27° 2 | 26° 9 | 4°48 | 26° 4 | S 29 |
| M30 | 6 36 30 | 9°10'41 | 8 Ω 26 | 7°37 | 13° 6 | 4°32 | 19°54 | 7°24 | 29°26 | 28°22 | 7°35 | 26°50 | 26° 6 | 4°55 | 26° 2 | M30 |
| T 31 | 6 40 27 | 10る11'50 | 21 Ω 48 | 9 궁 14 | 14 × 121 | 4 Ω 55 | 20M 5 | 7≈30 | 29∏23 | 28) 23 | 7Ω 34 | 26 <u>₽</u> 40 | 26 ♀ 3 | 5M 2 | 26Ω 0 | T 31 |

Delta T = 15.04 sec

JANUARY 1698 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)f(| ¥ | Р | n | Ω | Ç | , o | Day |
|------|---------|-------------------|------------------|----------------|-----------------|----------------|-----------------|-------|-----------------|-----------------|---------------|----------------|----------------|-------|----------------|------|
| W 1 | 6 44 23 | 11名13'00 | 4 m 45 | 10 궁 51 | 15 ∡ ³36 | 5 ₽ 19 | 20 M .16 | 7≈37 | 29°R21 | 28) (24 | 7°R33 | 26°R32 | 26 ♀ 0 | 5M 8 | 25°R57 | W 1 |
| T 2 | 6 48 20 | 12°14'09 | 17°19 | 12°28 | 16°51 | 5°42 | 20°26 | 7°44 | 29∏18 | 28°25 | 7Ω 32 | 26 ≏ 27 | 25°57 | 5°15 | 25 Ω 55 | T 2 |
| F 3 | 6 52 17 | 13°15'18 | 29°34 | 14° 6 | 18° 6 | 6° 5 | 20°36 | 7°50 | 29°16 | 28°25 | 7°30 | 26°24 | 25°54 | 5°22 | 25°52 | F 3 |
| S 4 | 6 56 13 | 14°16'28 | 11 ≏ 34 | 15°44 | 19°20 | 6°28 | 20°47 | 7°57 | 29°13 | 28°26 | 7°29 | 26°D24 | 25°50 | 5°28 | 25°49 | S 4 |
| S 5 | 7 0 10 | 15°17'37 | 23°24 | 17°23 | 20°35 | 6°50 | 20°57 | 8° 4 | 29°11 | 28°27 | 7°28 | 26°R24 | 25°47 | 5°35 | 25°47 | S 5 |
| M 6 | 7 4 6 | 16°18'47 | 5 M .11 | 19° 2 | 21°50 | 7°12 | 21° 7 | 8°11 | 29° 8 | 28°28 | 7°27 | 26°23 | 25°44 | 5°42 | 25°44 | M 6 |
| T 7 | 7 8 3 | 17°19'56 | 17° 0 | 20°42 | 23° 5 | 7°34 | 21°17 | 8°18 | 29° 6 | 28°29 | 7°25 | 26°22 | 25°41 | 5°48 | 25°41 | T 7 |
| W 8 | 7 11 59 | 18°21'05 | 28°56 | 22°22 | 24°20 | 7°55 | 21°27 | 8°24 | 29° 4 | 28°30 | 7°24 | 26°18 | 25°38 | 5°55 | 25°38 | W 8 |
| T 9 | 7 15 56 | 19°22'15 | 11 ~ 2 | 24° 2 | 25°35 | 8°16 | 21°36 | 8°31 | 29° 1 | 28°31 | 7°23 | 26°11 | 25°34 | 6° 1 | 25°35 | T 9 |
| F 10 | 7 19 52 | 20°23'24 | 23°23 | 25°43 | 26°50 | 8°37 | 21°46 | 8°38 | 28°59 | 28°32 | 7°21 | 26° 1 | 25°31 | 6° 8 | 25°31 | F 10 |
| S 11 | 7 23 49 | 21°24'32 | 6 ප 0 | 27°24 | 28° 5 | 8°57 | 21°56 | 8°45 | 28°57 | 28°33 | 7°20 | 25°49 | 25°28 | 6°15 | 25°28 | S 11 |
| S 12 | 7 27 46 | 22°25'40 | 18°54 | 29° 6 | 29°20 | 9°17 | 22° 5 | 8°52 | 28°54 | 28°35 | 7°19 | 25°36 | 25°25 | 6°21 | 25°25 | S 12 |
| M13 | 7 31 42 | 23°26'48 | 2≈ 4 | 0≈48 | 0 궁 34 | 9°36 | 22°14 | 8°59 | 28°52 | 28°36 | 7°17 | 25°22 | 25°22 | 6°28 | 25°21 | M13 |
| T 14 | 7 35 39 | 24°27'55 | 15°27 | 2°30 | 1°49 | 9°56 | 22°24 | 9° 6 | 28°50 | 28°37 | 7°16 | 25° 9 | 25°19 | 6°35 | 25°18 | T 14 |
| W15 | 7 39 35 | 25°29'01 | 29° 2 | 4°13 | 3° 4 | 10°14 | 22°33 | 9°13 | 28°47 | 28°38 | 7°15 | 24°58 | 25°15 | 6°41 | 25°14 | W15 |
| T 16 | 7 43 32 | 26°30'06 | 12) (46 | 5°55 | 4°19 | 10°33 | 22°42 | 9°20 | 28°45 | 28°39 | 7°13 | 24°50 | 25°12 | 6°48 | 25°10 | T 16 |
| F 17 | 7 47 28 | 27°31'10 | 26°37 | 7°38 | 5°34 | 10°51 | 22°51 | 9°27 | 28°43 | 28°41 | 7°12 | 24°46 | 25° 9 | 6°55 | 25° 6 | F 17 |
| S 18 | 7 51 25 | 28°32'14 | 10 Y 33 | 9°21 | 6°49 | 11° 8 | 22°59 | 9°34 | 28°41 | 28°42 | 7°11 | 24°44 | 25° 6 | 7° 1 | 25° 3 | S 18 |
| S 19 | 7 55 21 | 29°33'16 | 24°34 | 11° 3 | 8° 4 | 11°25 | 23° 8 | 9°42 | 28°39 | 28°43 | 7° 9 | 24°43 | 25° 3 | 7° 8 | 24°59 | S 19 |
| M20 | 7 59 18 | 0≈34'17 | 8 8 38 | 12°46 | 9°19 | 11°42 | 23°16 | 9°49 | 28°37 | 28°45 | 7° 8 | 24°43 | 25° 0 | 7°15 | 24°55 | M20 |
| T 21 | 8 3 15 | 1°35'17 | 22°46 | 14°27 | 10°34 | 11°58 | 23°25 | 9°56 | 28°35 | 28°46 | 7° 6 | 24°42 | 24°56 | 7°21 | 24°51 | T 21 |
| W22 | 8 7 11 | 2°36'16 | 6耳56 | 16° 8 | 11°49 | 12°14 | 23°33 | 10° 3 | 28°33 | 28°48 | 7° 5 | 24°38 | 24°53 | 7°28 | 24°47 | W22 |
| T 23 | 8 11 8 | 3°37'14 | 21° 6 | 17°48 | 13° 4 | 12°29 | 23°41 | 10°10 | 28°31 | 28°49 | 7° 4 | 24°32 | 24°50 | 7°35 | 24°42 | T 23 |
| F 24 | 8 15 4 | 4°38'10 | 59912 | 19°27 | 14°19 | 12°44 | 23°49 | 10°17 | 28°29 | 28°50 | 7° 2 | 24°23 | 24°47 | 7°41 | 24°38 | F 24 |
| S 25 | 8 19 1 | 5°39'06 | 19°11 | 21° 4 | 15°34 | 12°58 | 23°57 | 10°24 | 28°27 | 28°52 | 7° 1 | 24°11 | 24°44 | 7°48 | 24°34 | S 25 |
| S 26 | 8 22 57 | 6°40'00 | 2 Ω 58 | 22°39 | 16°49 | 13°12 | 24° 5 | 10°32 | 28°25 | 28°53 | 6°59 | 23°59 | 24°40 | 7°55 | 24°30 | S 26 |
| M27 | 8 26 54 | 7°40'53 | 16°28 | 24°11 | 18° 3 | 13°25 | 24°12 | 10°39 | 28°23 | 28°55 | 6°58 | 23°46 | 24°37 | 8° 1 | 24°25 | M27 |
| T 28 | 8 30 50 | 8°41'45 | 29°40 | 25°41 | 19°18 | 13°38 | 24°20 | 10°46 | 28°21 | 28°57 | 6°57 | 23°35 | 24°34 | 8° 8 | 24°21 | T 28 |
| W29 | 8 34 47 | 9°42'37 | 12 m 31 | 27° 6 | 20°33 | 13°51 | 24°27 | 10°53 | 28°19 | 28°58 | 6°55 | 23°26 | 24°31 | 8°14 | 24°16 | W29 |
| T 30 | 8 38 44 | 10°43'27 | 25° 3 | 28°28 | 2 <u>1</u> °48 | 14° 2 | 24°34 | 11° 0 | 28°18 | 29° 0 | 6°54 | 23°20 | 24°28 | 8°21 | 24°12 | T 30 |
| F 31 | 8 42 40 | 11 ≈ 44'16 | 7 ≙ 17 | 29≈44 | 23중 3 | 14 ≏ 14 | 24 M .41 | 11≈ 7 | 28 I I16 | 29 米 2 | 6 Ω 52 | 23 ≗ 17 | 24 Ω 25 | 8ML28 | 24 Ω 7 | F 31 |

Delta T = 15.01 sec

Greg. Calendar

| FEBRUARY 1698 GC | 00:00 UT |
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| FEDKUAKI 1090 GL | 00:00 01 |

| Day | Sid.t | 0 |) | ğ | φ | ð | 4 | ħ |)ұ(| ¥ | Р | ₽. | Ω | Ç | Š | Day |
|------|----------|------------------|----------------|---------------|----------------|----------------|----------------|-------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|------|
| S 1 | 8 46 37 | 12≈45'04 | 19 ≏ 18 | 0 ∺ 55 | 24 궁 18 | 14 Ω 24 | 24 M 48 | 11≈15 | 28°R14 | 29 ∺ 3 | 6°R51 | 23°D15 | 24 ₽ 21 | 8 M .34 | 24°R 3 | S 1 |
| S 2 | 8 50 33 | 13°45'51 | 1 M .10 | 1°59 | 25°33 | 14°34 | 24°55 | 11°22 | 28∏13 | 29° 5 | 6 Ω 50 | 23 ₽ 15 | 24°18 | 8°41 | 23 £ 58 | S 2 |
| M 3 | 8 54 30 | 14°46'37 | 12°58 | 2°56 | 26°48 | 14°44 | 25° 2 | 11°29 | 28°11 | 29° 7 | 6°48 | 23°R16 | 24°15 | 8°48 | 23°54 | M 3 |
| T 4 | 8 58 26 | 15°47'22 | 24°48 | 3°46 | 28° 3 | 14°53 | 25° 8 | 11°36 | 28°10 | 29° 8 | 6°47 | 23°15 | 24°12 | 8°54 | 23°49 | T 4 |
| W 5 | 9 2 23 | 16°48'07 | 6 ₹ 44 | 4°26 | 29°18 | 15° 1 | 25°15 | 11°43 | 28° 8 | 29°10 | 6°45 | 23°13 | 24° 9 | 9° 1 | 23°44 | W 5 |
| T 6 | 9 6 19 | 17°48'50 | 1 <u>8</u> °54 | 4°57 | 0≈33 | 15° 9 | 25°21 | 11°50 | 28° 7 | 29°12 | 6°44 | 23° 9 | 24° 6 | 9° 8 | 23°40 | T 6 |
| F 7 | 9 10 16 | 18°49'32 | 1 る 19 | 5°18 | 1°48 | 15°16 | 25°27 | 11°58 | 28° 5 | 29°14 | 6°43 | 23° 2 | 24° 2 | 9°14 | 23°35 | F 7 |
| S 8 | 9 14 13 | 19°50'12 | 14° 5 | 5°29 | 3° 3 | 15°22 | 25°33 | 12° 5 | 28° 4 | 29°16 | 6°41 | 22°53 | 23°59 | 9°21 | 23°30 | S 8 |
| S 9 | 9 18 9 | 20°50'52 | 27°11 | 5°R30 | 4°18 | 15°28 | 25°38 | 12°12 | 28° 3 | 29°18 | 6°40 | 22°42 | 23°56 | 9°28 | 23°25 | S 9 |
| M10 | 9 22 6 | 21°51'30 | 10≈39 | 5°19 | 5°33 | 15°33 | 25°44 | 12°19 | 28° 2 | 29°19 | 6°39 | 22°31 | 23°53 | 9°34 | 23°21 | M10 |
| T 11 | 9 26 2 | 22°52'07 | 24°25 | 4°59 | 6°47 | 15°37 | 25°49 | 12°26 | 28° 0 | 29°21 | 6°37 | 22°21 | 23°50 | 9°41 | 23°16 | T 11 |
| W12 | 9 29 59 | 23°52'42 | 8 ∺ 25 | 4°29 | 8° 2 | 15°41 | 25°55 | 12°33 | 27°59 | 29°23 | 6°36 | 22°12 | 23°46 | 9°48 | 23°11 | W12 |
| T 13 | 9 33 55 | 24°53'15 | 22°37 | 3°49 | 9°17 | 15°44 | 26° 0 | 12°40 | 27°58 | 29°25 | 6°35 | 22° 6 | 23°43 | 9°54 | 23° 6 | T 13 |
| F 14 | 9 37 52 | 25°53'47 | 6 Ƴ 53 | 3° 1 | 10°32 | 15°46 | 26° 4 | 12°47 | 27°57 | 29°27 | 6°33 | 22° 3 | 23°40 | 10° 1 | 23° 2 | F 14 |
| S 15 | 9 41 48 | 26°54'17 | 21°11 | 2° 7 | 11°47 | 15°48 | 26° 9 | 12°54 | 27°56 | 29°29 | 6°32 | 22°D 2 | 23°37 | 10° 8 | 22°57 | S 15 |
| S 16 | 9 45 45 | 27°54'45 | 5 8 26 | 1° 7 | 13° 2 | 15°49 | 26°14 | 13° 1 | 27°55 | 29°31 | 6°31 | 22° 2 | 23°34 | 10°14 | 22°52 | S 16 |
| M17 | 9 49 42 | 28°55'11 | 19°37 | 0° 4 | 14°17 | 15°R49 | 26°18 | 13° 8 | 27°54 | 29°33 | 6°29 | 22° 3 | 23°31 | 10°21 | 22°47 | M17 |
| T 18 | 9 53 38 | 29°55'35 | 3 Ⅱ 42 | 28≈58 | 15°32 | 15°49 | 26°22 | 13°15 | 27°53 | 29°35 | 6°28 | 22°R 3 | 23°27 | 10°27 | 22°43 | T 18 |
| W19 | 9 57 35 | 0 米 55'58 | 17°41 | 27°52 | 16°47 | 15°47 | 26°26 | 13°22 | 27°53 | 29°37 | 6°27 | 22° 2 | 23°24 | 10°34 | 22°38 | W19 |
| T 20 | 10 131 | 1°56'18 | 19931 | 26°47 | 18° 1 | 15°45 | 26°30 | 13°29 | 27°52 | 29°39 | 6°26 | 21°58 | 23°21 | 10°41 | 22°33 | T 20 |
| F 21 | 10 5 28 | 2°56'36 | 15°13 | 25°45 | 19°16 | 15°42 | 26°34 | 13°36 | 27°51 | 29°41 | 6°24 | 21°53 | 23°18 | 10°47 | 22°29 | F 21 |
| S 22 | 10 9 24 | 3°56'53 | 28°45 | 24°47 | 20°31 | 15°39 | 26°38 | 13°43 | 27°50 | 29°43 | 6°23 | 21°45 | 23°15 | 10°54 | 22°24 | S 22 |
| S 23 | 10 13 21 | 4°57'07 | 12 N 5 | 23°54 | 21°46 | 15°35 | 26°41 | 13°50 | 27°50 | 29°45 | 6°22 | 21°37 | 23°12 | 11° 1 | 22°19 | S 23 |
| M24 | 10 17 17 | 5°57'19 | 25°11 | 23° 6 | 23° 1 | 15°29 | 26°44 | 13°57 | 27°49 | 29°48 | 6°21 | 21°29 | 23° 8 | 11° 7 | 22°15 | M24 |
| T 25 | 10 21 14 | 6°57'30 | 8 mg 3 | 22°25 | 24°15 | 15°24 | 26°47 | 14° 4 | 27°49 | 29°50 | 6°20 | 21°21 | 23° 5 | 11°14 | 22°10 | T 25 |
| W26 | 10 25 11 | 7°57'39 | 20°40 | 21°51 | 25°30 | 15°17 | 26°50 | 14°10 | 27°48 | 29°52 | 6°18 | 21°15 | 23° 2 | 11°21 | 22° 6 | W26 |
| T 27 | 10 29 7 | 8°57'46 | 3 ₾ 2 | 21°23 | 26°45 | 15° 9 | 26°53 | 14°17 | 27°48 | 29°54 | 6°17 | 21°12 | 22°59 | 11°27 | 22° 1 | T 27 |
| F 28 | 10 33 4 | 9 米 57'51 | 15 ≏ 12 | 21≈ 3 | 28≈ 0 | 15 ≏ 1 | 26M55 | 14≈24 | 27 Ⅱ 48 | 29 米 56 | 6 Ω 16 | 21 ≏ 10 | 22 ≏ 56 | 11 M 34 | 21 Q 57 | F 28 |

Delta T = 14.98 sec

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| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)∤(| 卉 | Р | ß | v | Ç | ę, | Day |
|------|----------|-------------------|----------------|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|------|
| S 1 | 10 37 0 | 10 ¥ 57′54 | 27 ≙ 10 | 20°R50 | 29≈15 | 14°R52 | 26M57 | 14≈31 | 27°R47 | 29 米 58 | 6°R15 | 21°D10 | 22 £ 52 | 11 M 41 | 21°R53 | S 1 |
| S 2 | 10 40 57 | 11°57'56 | 9 ™ 2 | 20≈43 | 0 ∺ 29 | 14 ≏ 43 | 27° 0 | 14°37 | 27 Ⅱ 47 | 0 Υ 0 | 6 Ω 14 | 21 ≏ 11 | 22°49 | 11°47 | 21 Ω 48 | S 2 |
| M 3 | 10 44 53 | 12°57'56 | 20°50 | 20°D42 | 1°44 | 14°32 | 27° 1 | 14°44 | 27°47 | 0° 3 | 6°13 | 21°13 | 22°46 | 11°54 | 21°44 | M 3 |
| T 4 | 10 48 50 | 13°57'55 | 2 √ 40 | 20°48 | 2°59 | 14°21 | 27° 3 | 14°51 | 27°47 | 0° 5 | 6°12 | 21°14 | 22°43 | 12° 1 | 21°40 | T 4 |
| W 5 | 10 52 46 | 14°57'52 | 14°36 | 21° 0 | 4°14 | 14° 9 | 27° 5 | 14°57 | 27°47 | 0° 7 | 6°11 | 21°R15 | 22°40 | 12° 7 | 21°36 | W 5 |
| T 6 | 10 56 43 | 15°57'47 | 26°45 | 21°18 | 5°28 | 13°56 | 27° 6 | 15° 4 | 27°D47 | 0° 9 | 6°10 | 21°14 | 22°37 | 12°14 | 21°31 | T 6 |
| F 7 | 11 0 40 | 16°57'40 | 9 ට 10 | 21°40 | 6°43 | 13°42 | 27° 7 | 15°10 | 27°47 | 0°11 | 6° 9 | 21°12 | 22°33 | 12°21 | 21°27 | F 7 |
| S 8 | 11 436 | 17°57'32 | 21°56 | 22° 8 | 7°58 | 13°28 | 27° 8 | 15°17 | 27°47 | 0°14 | 6° 8 | 21° 9 | 22°30 | 12°27 | 21°23 | S 8 |
| S 9 | 11 8 33 | 18°57'23 | 5≈ 5 | 22°40 | 9°12 | 13°13 | 27° 9 | 15°23 | 27°47 | 0°16 | 6° 7 | 21° 4 | 22°27 | 12°34 | 21°20 | S 9 |
| M10 | 11 12 29 | 19°57'11 | 18°40 | 23°17 | 10°27 | 12°57 | 27°10 | 15°29 | 27°47 | 0°18 | 6° 6 | 20°59 | 22°24 | 12°41 | 21°16 | M10 |
| T 11 | 11 16 26 | 20°56'57 | 2) 38 | 23°57 | 11°42 | 12°41 | 27°10 | 15°36 | 27°48 | 0°20 | 6° 5 | 20°54 | 22°21 | 12°47 | 21°12 | T 11 |
| W12 | 11 20 22 | 21°56'42 | 16°57 | 24°41 | 12°56 | 12°24 | 27°10 | 15°42 | 27°48 | 0°23 | 6° 4 | 20°50 | 22°17 | 12°54 | 21° 8 | W12 |
| T 13 | 11 24 19 | 22°56'24 | 1 Y 31 | 25°29 | 14°11 | 12° 6 | 27°R10 | 15°48 | 27°48 | 0°25 | 6° 3 | 20°48 | 22°14 | 13° 0 | 21° 5 | T 13 |
| F 14 | 11 28 15 | 23°56'05 | 16°14 | 26°21 | 15°26 | 11°48 | 27°10 | 15°54 | 27°49 | 0°27 | 6° 2 | 20°D46 | 22°11 | 13° 7 | 21° 1 | F 14 |
| S 15 | 11 32 12 | 24°55'43 | 0 8 58 | 27°15 | 16°40 | 11°29 | 27°10 | 16° 0 | 27°49 | 0°29 | 6° 1 | 20°47 | 22° 8 | 13°14 | 20°57 | S 15 |
| S 16 | 11 36 8 | 25°55'19 | 15°38 | 28°12 | 17°55 | 11°10 | 27° 9 | 16° 7 | 27°50 | 0°32 | 6° 0 | 20°48 | 22° 5 | 13°20 | 20°54 | S 16 |
| M17 | 11 40 5 | 26°54'53 | 0 Ⅱ 8 | 29°13 | 19°10 | 10°50 | 27° 9 | 16°13 | 27°50 | 0°34 | 6° 0 | 20°49 | 22° 2 | 13°27 | 20°51 | M17 |
| T 18 | 11 44 2 | 27°54'25 | 14°24 | 0) (15 | 20°24 | 10°30 | 27° 8 | 16°19 | 27°51 | 0°36 | 5°59 | 20°50 | 21°58 | 13°34 | 20°47 | T 18 |
| W19 | 11 47 58 | 28°53'54 | 28°24 | 1°20 | 21°39 | 10° 9 | 27° 7 | 16°24 | 27°52 | 0°38 | 5°58 | 20°R51 | 21°55 | 13°40 | 20°44 | W19 |
| T 20 | 11 51 55 | 29°53'21 | 1295 9 | 2°28 | 22°53 | 9°47 | 27° 6 | 16°30 | 27°52 | 0°41 | 5°57 | 20°50 | 21°52 | 13°47 | 20°41 | T 20 |
| F 21 | 11 55 51 | 0 Ƴ 52'46 | 25°37 | 3°38 | 24° 8 | 9°26 | 27° 4 | 16°36 | 27°53 | 0°43 | 5°57 | 20°49 | 21°49 | 13°54 | 20°38 | F 21 |
| S 22 | 11 59 48 | 1°52'08 | 8 Ω 49 | 4°50 | 25°22 | 9° 4 | 27° 2 | 16°42 | 27°54 | 0°45 | 5°56 | 20°47 | 21°46 | 14° 0 | 20°35 | S 22 |
| S 23 | 12 3 44 | 2°51'28 | 21°47 | 6° 4 | 26°37 | 8°42 | 27° 1 | 16°48 | 27°55 | 0°48 | 5°55 | 20°44 | 21°43 | 14° 7 | 20°32 | S 23 |
| M24 | 12 7 41 | 3°50'45 | 4 m y31 | 7°20 | 27°51 | 8°19 | 26°59 | 16°53 | 27°56 | 0°50 | 5°55 | 20°42 | 21°39 | 14°14 | 20°30 | M24 |
| T 25 | 12 11 37 | 4°50'01 | 17° 2 | 8°38 | 29° 6 | 7°56 | 26°56 | 16°59 | 27°57 | 0°52 | 5°54 | 20°39 | 21°36 | 14°20 | 20°27 | T 25 |
| W26 | 12 15 34 | 5°49'14 | 29°22 | 9°57 | o Υ 20 | 7°33 | 26°54 | 17° 5 | 27°58 | 0°54 | 5°53 | 20°38 | 21°33 | 14°27 | 20°25 | W26 |
| T 27 | 12 19 31 | 6°48'25 | 11 ≏ 31 | 11°19 | 1°35 | 7°10 | 26°52 | 17°10 | 27°59 | 0°57 | 5°53 | 20°37 | 21°30 | 14°34 | 20°22 | T 27 |
| F 28 | 12 23 27 | 7°47'34 | 23°32 | 12°42 | 2°49 | 6°47 | 26°49 | 17°15 | 28° 0 | 0°59 | 5°52 | 20°D36 | 21°27 | 14°40 | 20°20 | F 28 |
| S 29 | 12 27 24 | 8°46'41 | 5 M 26 | 14° 7 | 4° 4 | 6°24 | 26°46 | 17°21 | 28° 2 | 1° 1 | 5°52 | 20°37 | 21°23 | 14°47 | 20°18 | S 29 |
| S 30 | 12 31 20 | 9°45'47 | 17°15 | 15°33 | 5°18 | 6° 1 | 26°43 | 17°26 | 28° 3 | 1° 3 | 5°51 | 20°38 | 21°20 | 14°54 | 20°15 | S 30 |
| M31 | 12 35 17 | 10 ° 44'50 | 29M 4 | 17 米 2 | 6 Υ 32 | 5 ₾ 38 | 26 M 40 | 17 ≈ 31 | 28Ⅱ 4 | 1Υ 6 | 5 Ω 51 | 20 ≏ 39 | 21 ≏ 17 | 15 M 0 | 20 Ω 13 | M31 |

Delta T = 14.95 sec

Greg. Calendar

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| Day | Sid.t | 0 |) | φ | φ | δ | 4 | ħ |)f(| ¥ | Р | R | Ω | Ç | ď | Day |
|------|----------|-------------------|----------------|-----------------|----------------|----------------|----------------|----------------|---------------|--------------|---------------|----------------|----------------|----------------|----------------|------|
| T 1 | 12 39 13 | 11 ° 43'52 | 10 ₹ 55 | 18) (31 | 7 Ƴ 47 | 5°R15 | 26°R36 | 17≈37 | 28 I 5 | 1 Υ 8 | 5°R50 | 20 <u>₽</u> 40 | 21 ≏ 14 | 15 M 7 | 20°R11 | T 1 |
| W 2 | 12 43 10 | 12°42'51 | 22°52 | 20° 3 | 9° 1 | 4 ≏ 52 | 26M33 | 17°42 | 28° 7 | 1°10 | 5Ω 50 | 20°41 | 21°11 | 15°14 | 20 Ω 10 | W 2 |
| T 3 | 12 47 6 | 13°41'49 | 4 궁 59 | 21°36 | 10°16 | 4°29 | 26°29 | 17°47 | 28° 8 | 1°12 | 5°49 | 20°41 | 21° 8 | 15°20 | 20° 8 | T 3 |
| F 4 | 12 51 3 | 14°40'46 | 17°22 | 23°10 | 11°30 | 4° 6 | 26°25 | 17°52 | 28°10 | 1°15 | 5°49 | 20°R41 | 21° 4 | 15°27 | 20° 6 | F 4 |
| S 5 | 12 55 0 | 15°39'40 | 0≈ 4 | 24°46 | 12°44 | 3°44 | 26°21 | 17°57 | 28°11 | 1°17 | 5°49 | 20°41 | 21° 1 | 15°34 | 20° 5 | S 5 |
| S 6 | 12 58 56 | 16°38'33 | 13° 9 | 26°24 | 13°59 | 3°22 | 26°17 | 18° 1 | 28°13 | 1°19 | 5°48 | 20°41 | 20°58 | 15°40 | 20° 3 | S 6 |
| M 7 | 13 2 53 | 17°37'24 | 26°40 | 28° 3 | 15°13 | 3° 1 | 26°12 | 18° 6 | 28°15 | 1°21 | 5°48 | 20°40 | 20°55 | 15°47 | 20° 2 | M 7 |
| T 8 | 13 6 49 | 18°36'13 | 10 ∺ 38 | 29°44 | 16°27 | 2°39 | 26° 8 | 18°11 | 28°16 | 1°23 | 5°48 | 20°40 | 20°52 | 15°54 | 20° 1 | T 8 |
| W 9 | 13 10 46 | 19°35'00 | 25° 1 | 1 Υ 26 | 17°41 | 2°18 | 26° 3 | 18°16 | 28°18 | 1°26 | 5°48 | 20°40 | 20°48 | 16° 0 | 20° 0 | W 9 |
| T 10 | 13 14 42 | 20°33'45 | 9 Ƴ 44 | 3°10 | 18°56 | 1°58 | 25°58 | 18°20 | 28°20 | 1°28 | 5°47 | 20°D40 | 20°45 | 16° 7 | 19°59 | T 10 |
| F 11 | 13 18 39 | 21°32'29 | 24°43 | 4°56 | 20°10 | 1°38 | 25°53 | 18°25 | 28°22 | 1°30 | 5°47 | 20°R40 | 20°42 | 16°13 | 19°58 | F 11 |
| S 12 | 13 22 35 | 22°31'10 | 9 8 48 | 6°43 | 21°24 | 1°19 | 25°48 | 18°29 | 28°24 | 1°32 | 5°47 | 20°40 | 20°39 | 16°20 | 19°57 | S 12 |
| S 13 | 13 26 32 | 23°29'50 | 24°51 | 8°31 | 22°38 | 1° 0 | 25°42 | 18°33 | 28°26 | 1°34 | 5°47 | 20°39 | 20°36 | 16°27 | 19°56 | S 13 |
| M14 | 13 30 28 | 24°28'27 | 9 Ⅱ 43 | 10°21 | 23°53 | 0°42 | 25°37 | 18°38 | 28°28 | 1°36 | 5°47 | 20°39 | 20°33 | 16°33 | 19°56 | M14 |
| T 15 | 13 34 25 | 25°27'03 | 24°17 | 12°13 | 25° 7 | 0°24 | 25°31 | 18°42 | 28°30 | 1°39 | 5°47 | 20°39 | 20°29 | 16°40 | 19°55 | T 15 |
| W16 | 13 38 22 | 26°25'36 | 8930 | 14° 7 | 26°21 | 0° 7 | 25°26 | 18°46 | 28°32 | 1°41 | 5°47 | 20°38 | 20°26 | 16°47 | 19°55 | W16 |
| T 17 | 13 42 18 | 27°24'07 | 22°19 | 16° 2 | 27°35 | 29 m 51 | 25°20 | 18°50 | 28°34 | 1°43 | 5°D47 | 20°D38 | 20°23 | 16°53 | 19°55 | T 17 |
| F 18 | 13 46 15 | 28°22'35 | 5 Ω 45 | 17°58 | 28°49 | 29°36 | 25°14 | 18°54 | 28°36 | 1°45 | 5°47 | 20°38 | 20°20 | 17° 0 | 19°D55 | F 18 |
| S 19 | 13 50 11 | 29°21'02 | 18°49 | 19°56 | 0 8 3 | 29°21 | 25° 8 | 18°58 | 28°38 | 1°47 | 5°47 | 20°38 | 20°17 | 17° 7 | 19°55 | S 19 |
| S 20 | 13 54 8 | 0819'26 | 1 M 34 | 21°56 | 1°18 | 29° 7 | 25° 2 | 19° 1 | 28°40 | 1°49 | 5°47 | 20°39 | 20°14 | 17°13 | 19°55 | S 20 |
| M21 | 13 58 4 | 1°17'48 | 14° 3 | 23°57 | 2°32 | 28°53 | 24°55 | 19° 5 | 28°43 | 1°51 | 5°47 | 20°40 | 20°10 | 17°20 | 19°55 | M21 |
| T 22 | 14 2 1 | 2°16'08 | 26°19 | 26° 0 | 3°46 | 28°41 | 24°49 | 19° 9 | 28°45 | 1°53 | 5°47 | 20°41 | 20° 7 | 17°27 | 19°56 | T 22 |
| W23 | 14 5 57 | 3°14'26 | 8 ≏ 24 | 28° 4 | 5° 0 | 28°29 | 24°42 | 19°12 | 28°47 | 1°55 | 5°47 | 20°42 | 20° 4 | 17°33 | 19°56 | W23 |
| T 24 | 14 9 54 | 4°12'43 | 20°22 | 0 8 9 | 6°14 | 28°18 | 24°36 | 19°16 | 28°50 | 1°57 | 5°47 | 20°R42 | 20° 1 | 17°40 | 19°57 | T 24 |
| F 25 | 14 13 51 | 5°10'57 | 2 M .15 | 2°16 | 7°28 | 28° 8 | 24°29 | 19°19 | 28°52 | 1°59 | 5°47 | 20°42 | 19°58 | 17°47 | 19°57 | F 25 |
| S 26 | 14 17 47 | 6° 9'09 | 14° 5 | 4°23 | 8°42 | 27°58 | 24°22 | 19°22 | 28°54 | 2° 1 | 5°48 | 20°41 | 19°54 | 17°53 | 19°58 | S 26 |
| S 27 | 14 21 44 | 7° 7'20 | 25°54 | 6°32 | 9°56 | 27°49 | 24°15 | 19°26 | 28°57 | 2° 3 | 5°48 | 20°39 | 19°51 | 18° 0 | 19°59 | S 27 |
| M28 | 14 25 40 | 8° 5'29 | 7 ,₹ 44 | 8°41 | 11°10 | 27°41 | 24° 8 | 19°29 | 28°59 | 2° 5 | 5°48 | 20°36 | 19°48 | 18° 7 | 20° 0 | M28 |
| T 29 | 14 29 37 | 9° 3'37 | 19°38 | 10°51 | 12°24 | 27°34 | 24° 1 | 19°32 | 29° 2 | 2° 7 | 5°48 | 20°34 | 19°45 | 18°13 | 20° 1 | T 29 |
| W30 | 14 33 33 | 108 1'43 | 1 궁 39 | 138 1 | 13 8 38 | 27 Mp 28 | 23 M 54 | 19 ≈ 35 | 29耳 5 | 2 Υ 9 | 5 Ω 49 | 20 ≏ 31 | 19 ≏ 42 | 18 M 20 | 20 N 2 | W30 |

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| F 2 14 41 26 11°57′51 26°12 17°20 16° 6 27m 18 23m 39 19°40 29°10 2°12 5°50 20m 26 19°32 18°33 20° S 4 14 49 20 13°53′53 21°51 21°37 18°34 27°10 23°25 19°46 29°15 2°16 5°50 20°26 19°32 18°40 20° M 5 14 53 16 14°51′52 5¥14 23°44 19°47 27° 8 23°17 19°48 29°18 2°18 5°51 20°27 19°26 18°53 20°1 T 6 14 57 13 15°49′50 19°3 25°50 21° 1 27° 6 23°10 19°50 29°21 2°20 5°51 20°27 19°20 19° 1 2° 6 23°10 19°50 29°21 2°20 5°51 20°27 19°20 19°20 19° 1 2° 6 23°10 19°50 29°21 2°23 5°51 20°27 19°23 29°29 19°3 29°30 2°21 5°52 | Day | Sid.t | 0 | D | ğ | ₽ | ď | 4 | ħ |)f(| ¥ | Р | ₽. | v | Ç | , k | Day |
|--|------|----------|------------------|----------------|-------|----------------|------------------|----------------|--------|-------|---------------|---------------|----------------|---------------|----------------|----------------|------|
| S 3 14 45 23 12°55′53 8≈51 19°29 17°20 27°14 23°32 19°43 29°13 2°14 5°50 20°26 19°32 18°40 20° S 4 14 49 20 13°53′53 21°51 21°37 18°34 27°10 23°25 19°46 29°15 2°16 5°50 20°26 19°29 18°47 20° M 5 14 53 16 14°51′52 5¥14 23°44 19°47 27° 8 23°17 19°48 29°18 2°18 5°51 20°27 19°26 18°53 20°1 1 27° 6 23°10 19°50 29°21 2°20 5°51 20°27 19°20 19° 3 20° 19° 3 20° 19° 3 20° 19° 3 20° 19° 3 20° 19° 20° 5° 20° 20° 19° 20° 19° 20° 19° 20° 19° 20° 19° 20° 19° 20° 20° <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>20Ω 4</td><td>T 1</td></t<> | | | | | | | | - | | | | | - | | | 20Ω 4 | T 1 |
| S 4 14 49 20 13°53'53 21°51 21°37 18°34 27°10 23°25 19°46 29°15 2°16 5°50 20°26 19°29 18°47 20° M 5 14 53 16 14°51'52 5\tambel{14} 23°44 19°47 27° 8 23°17 19°48 29°18 2°18 5°51 20°27 19°26 18°53 20°1 T 6 14 57 13 15°49'50 19° 3 25°50 21° 1 27° 6 23°10 19°50 29°21 2°20 5°51 20°28 19°23 19° 0 20°1 T 8 15 6 17°45'41 17°57 29°55 23°29 27°D 5 22°55 19°55 29°27 2°23 5°52 20°30 19°16 19°10 19°1 19°1 19°1 19°1 19°1 19°1 19°1 19°2 19°1 20°3 5°52 20°30 19°13 19°1 19°2 20°3 19°1 19°2 19°3 20°2 19°3 20°2 10°3< | F 2 | 14 41 26 | 11°57'51 | 26°12 | 17°20 | 16° 6 | 27 m) 18 | 23 M 39 | 19°40 | 29°10 | 2°12 | 5°50 | 20 ≏ 26 | 19°35 | 18°33 | 20° 5 | F 2 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | S 3 | 14 45 23 | 12°55'53 | 8 ≈ 51 | 19°29 | 17°20 | 27°14 | 23°32 | 19°43 | 29°13 | 2°14 | 5°50 | 20°D26 | 19°32 | 18°40 | 20° 7 | S 3 |
| T 6 14 57 13 15°49′50 19° 3 25°50 21° 1 27° 6 23°10 19°50 29°21 2°20 5°51 20°28 19°23 19° 0 20°1 W7 15 1 9 16°47′46 3 $^{\circ}$ Y18 27°53 22°15 27° 5 23° 2 19°53 29°24 2°21 5°52 20°29 19°20 19° 7 20°1 T8 15 5 17°45′41 17°57 29°55 23°29 27°D 5 22°55 19°55 29°27 2°23 5°52 20°29 19°20 19° 7 20°1 T8 15 5 6 17°45′41 17°57 29°55 23°29 27°D 5 22°55 19°55 29°27 2°23 5°52 20°80 19°16 19°13 20°1 S10 15 12 5 19°41′28 18° 6 3°52 25°57 27° 7 22°39 19°59 29°30 2°25 5°53 20°30 19°13 19°20 20°1 S10 15 13 14°37 15 1 | S 4 | 14 49 20 | 13°53'53 | 21°51 | | | | | 19°46 | 29°15 | | 5°50 | | 19°29 | 18°47 | 20° 8 | S 4 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | M 5 | 14 53 16 | 14°51'52 | | | | 27° 8 | 23°17 | 19°48 | 29°18 | 2°18 | 5°51 | 20°27 | 19°26 | | 20°10 | M 5 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | T 6 | 14 57 13 | 15°49'50 | | 25°50 | 21° 1 | 27° 6 | 23°10 | 19°50 | 29°21 | 2°20 | | 20°28 | 19°23 | 19° 0 | 20°12 | T 6 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | W 7 | 15 1 9 | 16°47'46 | 3 Υ 18 | 27°53 | 22°15 | 27° 5 | 23° 2 | 19°53 | 29°24 | 2°21 | 5°52 | 20°29 | 19°20 | 19° 7 | 20°14 | W 7 |
| S 10 15 12 59 19°41'28 18° 6 3°52 25°57 27° 7 22°39 19°59 29°33 2°27 5°53 20°28 19°10 19°27 20°27 15 15 15 15 15 15 15 1 | T 8 | 15 5 6 | 17°45'41 | 17°57 | 29°55 | 23°29 | 27°D 5 | 22°55 | 19°55 | 29°27 | 2°23 | 5°52 | 20°R30 | 19°16 | 19°13 | 20°16 | T 8 |
| S 1 | F 9 | 15 9 2 | 18°43'35 | 2 8 56 | 1∏55 | 24°43 | 27° 6 | 22°47 | 19°57 | 29°30 | 2°25 | 5°53 | 20°30 | 19°13 | 19°20 | 20°18 | F 9 |
| Mil | S 10 | 15 12 59 | 19°41'28 | 18° 6 | 3°52 | 25°57 | 27° 7 | 22°39 | 19°59 | 29°33 | 2°27 | 5°53 | 20°28 | 19°10 | 19°27 | 20°21 | S 10 |
| T13 15 24 49 | S 11 | 15 16 55 | 20°39'19 | 3Ⅲ20 | 5°47 | 27°11 | 27°10 | 22°32 | 20° 1 | 29°36 | 2°28 | 5°54 | 20°25 | 19° 7 | 19°33 | 20°23 | S 11 |
| W14 15 28 45 23°32'42 17°43 11°14 0∏52 27°21 22°9 20°6 29°45 2°33 5°56 20°12 18°57 19°53 20°37 15°13 14°37 3°20 27°32 21°53 20°9 29°51 2°36 5°58 20° 7 18°51 20° 7 20°3 8°17 15°40 35 26°25'51 28°18 16°14 4°33 27°38 21°46 20°11 29°54 2°38 5°58 20° 7 18°51 20° 7 20°3 8°18 15°44 31 27°23'31 10∏59 17°48 5°47 27°45 21°38 20°12 29°57 2°39 5°59 20° 7 18°45 20°20 20°4 20°13 20°4 20°14 20°14 20°14 20°14 20°27 20°4 20°15 20°14 20°45 20°44 20°45 20°46 20°48 20°46 20°48 20°40 20°58 20°40 20°45 20°4 | M12 | 15 20 52 | 21°37'08 | 18°27 | | | 27°13 | | 20° 3 | 29°39 | 2°30 | 5°55 | 20°21 | | 19°40 | 20°26 | M12 |
| T 15 | T 13 | 15 24 49 | 22°34'56 | 39517 | 9°28 | | 27°16 | | 20° 5 | 29°42 | 2°31 | 5°55 | | 19° 0 | 19°47 | 20°28 | T 13 |
| F 16 | W14 | 15 28 45 | 23°32'42 | 17°43 | 11°14 | 0Ⅲ52 | 27°21 | 22° 9 | 20° 6 | 29°45 | 2°33 | 5°56 | | 18°57 | 19°53 | 20°31 | W14 |
| S 17 | T 15 | 15 32 42 | 24°30'27 | 1 Ω 42 | 12°57 | 2° 6 | 27°26 | 22° 1 | 20° 8 | 29°48 | 2°35 | 5°57 | 20° 9 | 18°54 | 20° 0 | 20°34 | T 15 |
| S18 15 44 31 27°23'31 10m59 17°48 5°47 27°45 21°38 20°12 29°57 2°39 5°59 20° 7 18°45 20°20 20°4 M19 15 48 28 28°21'09 23°21 19°18 7° 1 27°53 21°31 20°13 0© 0 2°41 6° 0 20° 8 18°41 20°27 20°4 T 20 15 52 24 29°18'46 5©29 20°45 8°15 28° 2 21°23 20°14 0° 4 2°42 6° 1 20°10 18°38 20°33 20°5 W21 15 56 21 0 116'21 17°26 22° 9 9°28 28°11 21°16 20°15 0° 7 2°44 6° 2 20°R11 18°35 20°40 20°8 T 22 16 0 18 1°13'55 29°18 23°29 10°42 28°21 21° 8 20°16 0°10 2°45 6° 2 20°10 18°32 20°47 20°5 F 23 16 4 14 2°11'27 11m.6 24°46 11°56 28°31 21° 1 20°17 0°13 2°46 6° 3 | F 16 | 15 36 38 | 25°28'10 | 15°13 | 14°37 | 3°20 | 27°32 | 21°53 | 20° 9 | 29°51 | 2°36 | 5°58 | 20° 7 | 18°51 | 20° 7 | 20°37 | F 16 |
| M19 | S 17 | 15 40 35 | 26°25'51 | 28°18 | 16°14 | 4°33 | 27°38 | 21°46 | 20°11 | 29°54 | 2°38 | 5°58 | 20°D 6 | 18°48 | 20°13 | 20°40 | S 17 |
| T20 | S 18 | 15 44 31 | | 10 m 59 | | | | | | | | | | | | 20°43 | S 18 |
| W21 15 56 21 O∏ 16 21 17°26 22° 9 9°28 28°11 21°16 20°15 0° 7 2°44 6° 2 20°R11 18°35 20°40 20°55 21° 10°14 21° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1 | M19 | 15 48 28 | | 23°21 | 19°18 | 7° 1 | | 21°31 | 20°13 | | 2°41 | 6° 0 | 20° 8 | 18°41 | 20°27 | 20°46 | M19 |
| T22 | T 20 | 15 52 24 | 29°18'46 | 5 ≙ 29 | | | 28° 2 | 21°23 | 20°14 | | 2°42 | 6° 1 | 20°10 | 18°38 | 20°33 | 20°50 | T 20 |
| F 23 | | | | | | | - | | | 0 , | | | - | | | 20°53 | W21 |
| S 24 16 8 11 3° 8'58 22°55 25°59 13° 9 28°42 20°54 20°17 0°17 2°48 6° 4 20° 4 18°25 21° 0 21° S 25 16 12 7 4° 6'29 4🗷 46 27° 9 14°23 28°54 20°46 20°18 0°20 2°49 6° 5 19°58 18°22 21° 7 21° M26 16 16 4 5° 3'58 16°41 28°15 15°37 29° 6 20°39 20°18 0°23 2°50 6° 6 19°51 18°19 21°13 21°1 T 27 16 20 0 6° 1'26 28°42 29°18 16°50 29°19 20°32 20°19 0°27 2°52 6° 7 19°42 18°16 21°20 21°1 W28 16 23 57 6°58'53 10°350 0©17 18° 4 29°32 20°25 20°19 0°30 2°53 6° 8 19°34 18°13 21°27 21°2 | T 22 | 16 0 18 | 1°13'55 | 29°18 | 23°29 | 10°42 | - | 21° 8 | 20°16 | 0°10 | 2°45 | | | 18°32 | 20°47 | 20°57 | T 22 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | 16 4 14 | | 11 M 6 | - | | | 21° 1 | 20°17 | | - | | | | | 21° 1 | F 23 |
| M26 | S 24 | 16 8 11 | 3° 8'58 | 22°55 | 25°59 | 13° 9 | 28°42 | 20°54 | 20°17 | 0°17 | 2°48 | 6° 4 | 20° 4 | 18°25 | 21° 0 | 21° 4 | S 24 |
| T 27 | | | | | -, , | - | | | | | | | | - | | 21° 8 | S 25 |
| W28 16 23 57 6°58'53 10壱50 0©17 18° 4 29°32 20°25 20°19 0°30 2°53 6° 8 19°34 18°13 21°27 21°27 | - | | 5° 3'58 | - | | | | | 20°18 | | | | | | - | 21°12 | M26 |
| | T 27 | 16 20 0 | 6° 1'26 | - | - | | 29°19 | 20°32 | 20°19 | 0°27 | 2°52 | 6° 7 | 19°42 | 18°16 | 21°20 | 21°16 | T 27 |
| Imag 1/2 = = | W28 | 16 23 57 | 6°58'53 | 10 궁 50 | 09517 | 18° 4 | 29°32 | 20°25 | 20°19 | 0°30 | 2°53 | 6° 8 | 19°34 | 18°13 | 21°27 | 21°20 | W28 |
| | T 29 | 16 27 53 | 7°56'19 | 23° 8 | 1°12 | 19°17 | 29°46 | 20°18 | 20°19 | 0°33 | 2°54 | 6° 9 | 19°26 | 18°10 | 21°33 | 21°24 | T 29 |
| | F 30 | | | | 2° 3 | | | | 20°R19 | | | | | 18° 6 | 21°40 | 21°29 | F 30 |
| S 31 16 35 47 9∏51'10 18∞21 2551 21∏45 0£15 20∭ 4 20∞19 0540 2°756 6£11 19£15 18£3 21∭47 21£3 | S 31 | 16 35 47 | 9 Ⅱ 51'10 | 18 ≈ 21 | 2951 | 21 Ⅱ 45 | 0 ჲ 15 | 20 m 4 | 20≈19 | 09540 | 2 Υ 56 | 6 Ω 11 | 19 ≏ 15 | 18 ♀ 3 | 21 M 47 | 21 Ω 33 | S 31 |

Delta T = 14.89 sec Greg. Calendar

JUNE 1698 GC 00:00 UT

| Day | Sid.t | \odot | D | φ | · | ď | 4 | ħ |)Й(| ¥ | 2 | ß | Ω | ţ | δ | Day |
|------|----------|-------------------|------------------|----------------|-----------------|----------------|----------------|----------------|-------|---------------|---------------|----------------|----------------|---------------|----------------|------|
| S 1 | 16 39 43 | 10 Ⅱ 48'34 | 1) 20 | 3934 | 22 II 58 | 0 ჲ 31 | 19°R57 | 20°R19 | 09544 | 2 Υ 57 | 6 Ω 12 | 19°R13 | 18☎ 0 | 21M53 | 21 £ 38 | S 1 |
| M 2 | 16 43 40 | 11°45'57 | 14°38 | 4°13 | 24°12 | 0°47 | 19 M 51 | 20≈19 | 0°47 | 2°59 | 6°14 | 19°D13 | 17°57 | 22° 0 | 21°42 | M 2 |
| T 3 | 16 47 36 | 12°43'20 | 28°18 | 4°48 | 25°25 | 1° 3 | 19°44 | 20°19 | 0°50 | 3° 0 | 6°15 | 19 ≏ 13 | 17°54 | 22° 7 | 21°47 | T 3 |
| W 4 | 16 51 33 | 13°40'42 | 12 Y 20 | 5°19 | 26°39 | 1°20 | 19°37 | 20°18 | 0°54 | 3° 1 | 6°16 | 19°R14 | 17°51 | 22°13 | 21°52 | W 4 |
| T 5 | 16 55 29 | 14°38'04 | 26°46 | 5°45 | 27°52 | 1°38 | 19°31 | 20°18 | 0°57 | 3° 2 | 6°17 | 19°14 | 17°47 | 22°20 | 21°57 | T 5 |
| F 6 | 16 59 26 | 15°35'25 | 11832 | 6° 7 | 29° 6 | 1°56 | 19°25 | 20°17 | 1° 1 | 3° 3 | 6°18 | 19°12 | 17°44 | 22°27 | 22° 1 | F 6 |
| S 7 | 17 3 22 | 16°32'46 | 26°34 | 6°24 | 09519 | 2°14 | 19°19 | 20°17 | 1° 4 | 3° 4 | 6°20 | 19° 8 | 17°41 | 22°33 | 22° 6 | S 7 |
| S 8 | 17 7 19 | 17°30'07 | 11 Ⅱ 42 | 6°37 | 1°33 | 2°33 | 19°13 | 20°16 | 1°8 | 3° 4 | 6°21 | 19° 2 | 17°38 | 22°40 | 22°12 | S 8 |
| M 9 | 17 11 16 | 18°27'26 | 26°48 | 6°45 | 2°46 | 2°52 | 19° 7 | 20°15 | 1°11 | 3° 5 | 6°22 | 18°54 | 17°35 | 22°47 | 22°17 | M 9 |
| T 10 | 17 15 12 | 19°24'45 | 119542 | 6°R49 | 4° 0 | 3°12 | 19° 1 | 20°14 | 1°15 | 3° 6 | 6°23 | 18°44 | 17°31 | 22°53 | 22°22 | T 10 |
| W11 | 17 19 9 | 20°22'04 | 26°14 | 6°48 | 5°13 | 3°32 | 18°55 | 20°13 | 1°19 | 3° 7 | 6°25 | 18°36 | 17°28 | 23° 0 | 22°27 | W11 |
| T 12 | 17 23 5 | 21°19'21 | 10 Ω 20 | 6°43 | 6°27 | 3°53 | 18°50 | 20°12 | 1°22 | 3° 8 | 6°26 | 18°28 | 17°25 | 23° 7 | 22°33 | T 12 |
| F 13 | 17 27 2 | 22°16'38 | 23°57 | 6°33 | 7°40 | 4°14 | 18°45 | 20°10 | 1°26 | 3° 9 | 6°27 | 18°23 | 17°22 | 23°13 | 22°38 | F 13 |
| S 14 | 17 30 58 | 23°13'53 | 7 m) 5 | 6°19 | 8°54 | 4°36 | 18°39 | 20° 9 | 1°29 | 3° 9 | 6°29 | 18°20 | 17°19 | 23°20 | 22°44 | S 14 |
| S 15 | 17 34 55 | 24°11'08 | 19°48 | 6° 2 | 10° 7 | 4°58 | 18°34 | 20° 8 | 1°33 | 3°10 | 6°30 | 18°D18 | 17°16 | 23°27 | 22°50 | S 15 |
| M16 | 17 38 51 | 25° 8'22 | 2 ≏ 10 | 5°40 | 11°20 | 5°20 | 18°29 | 20° 6 | 1°36 | 3°11 | 6°31 | 18°18 | 17°12 | 23°33 | 22°55 | M16 |
| T 17 | 17 42 48 | 26° 5'36 | 14°16 | 5°15 | 12°34 | 5°43 | 18°25 | 20° 4 | 1°40 | 3°11 | 6°33 | 18°R19 | 17° 9 | 23°40 | 23° 1 | T 17 |
| W18 | 17 46 45 | 27° 2'49 | 26°11 | 4°47 | 13°47 | 6° 6 | 18°20 | 20° 3 | 1°44 | 3°12 | 6°34 | 18°19 | 17° 6 | 23°47 | 23° 7 | W18 |
| T 19 | 17 50 41 | 28° 0'01 | 8ML 0 | 4°17 | 15° 1 | 6°29 | 18°15 | 20° 1 | 1°47 | 3°12 | 6°36 | 18°17 | 17° 3 | 23°53 | 23°13 | T 19 |
| F 20 | 17 54 38 | 28°57'13 | 19°48 | 3°44 | 16°14 | 6°53 | 18°11 | 19°59 | 1°51 | 3°13 | 6°37 | 18°13 | 17° 0 | 24° 0 | 23°19 | F 20 |
| S 21 | 17 58 34 | 29°54'24 | 1 ∡ 38 | 3°10 | 17°27 | 7°17 | 18° 7 | 19°57 | 1°54 | 3°13 | 6°39 | 18° 6 | 16°57 | 24° 7 | 23°25 | S 21 |
| S 22 | 18 231 | 0951'35 | 13°34 | 2°35 | 18°41 | 7°42 | 18° 3 | 19°55 | 1°58 | 3°14 | 6°40 | 17°57 | 16°53 | 24°13 | 23°31 | S 22 |
| M23 | 18 6 27 | 1°48'46 | 2 <u>5</u> °37 | 1°59 | 19°54 | 8° 7 | 17°59 | 19°53 | 2° 2 | 3°14 | 6°42 | 17°46 | 16°50 | 24°20 | 23°37 | M23 |
| T 24 | 18 10 24 | 2°45'57 | 7 궁 48 | 1°24 | 21° 7 | 8°32 | 17°55 | 19°51 | 2° 5 | 3°15 | 6°43 | 17°33 | 16°47 | 24°27 | 23°44 | T 24 |
| W25 | 18 14 20 | 3°43'07 | 20°10 | 0°49 | 22°20 | 8°57 | 17°52 | 19°48 | 2° 9 | 3°15 | 6°45 | 17°20 | 16°44 | 24°33 | 23°50 | W25 |
| T 26 | 18 18 17 | 4°40'17 | 2≈42 | 0°16 | 23°34 | 9°23 | 17°49 | 19°46 | 2°13 | 3°16 | 6°46 | 17° 9 | 16°41 | 24°40 | 23°57 | T 26 |
| F 27 | 18 22 14 | 5°37'28 | 15°24 | 29 ∏ 45 | 24°47 | 9°49 | 17°45 | 19°43 | 2°16 | 3°16 | 6°48 | 16°59 | 16°37 | 24°47 | 24° 3 | F 27 |
| S 28 | 18 26 10 | 6°34'38 | 28°18 | 29°16 | 26° 0 | 10°16 | 17°42 | 19°41 | 2°20 | 3°16 | 6°49 | 16°52 | 16°34 | 24°54 | 24°10 | S 28 |
| S 29 | 18 30 7 | 7°31'48 | 11 米 25 | 28°50 | 27°13 | 10°43 | 17°40 | 19°38 | 2°23 | 3°16 | 6°51 | 16°47 | 16°31 | 25° 0 | 24°16 | S 29 |
| M30 | 18 34 3 | 8928'59 | 24) (47 | 28∏28 | 28927 | 11 ≏ 10 | 17 M 37 | 19 ≈ 35 | 29527 | 3 ℃ 17 | 6 Ω 52 | 16 ≏ 45 | 16 ≏ 28 | 25 m 7 | 24 Ω 23 | M30 |

Delta T = 14.86 sec Greg. Calendar

JULY 1698 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)∤(| 卉 | Р | 'n | Ω | Ç | ę, | Day |
|-------------|---------------------|----------------------|------------------------|-----------------|----------------|----------------|----------------|----------------|--------------|--------------|---------------|----------------|----------------|-----------------|-----------------|-------------|
| T 1 | 18 38 0 | 99526'10 | 8 Υ 24 | 28°R10 | 299540 | 11 ≏ 37 | 17°R34 | 19°R32 | 2931 | 3Υ 17 | 6 Ω 54 | 16°R45 | 16 ₽ 25 | 25 M .14 | 24 \O 30 | T 1 |
| W 2 | 18 41 56 | 10°23'22 | 22°18 | 27 II 56 | 0 £ 53 | 12° 5 | 17 M 32 | 19 ≈ 30 | 2°34 | 3°17 | 6°56 | 16 ≏ 45 | 16°22 | 25°20 | 24°36 | W 2 |
| T 3 | 18 45 53 | 11°20'34 | 6 8 31 | 27°47 | 2° 6 | 12°33 | 17°30 | 19°27 | 2°38 | 3°17 | 6°57 | 16°44 | 16°18 | 25°27 | 24°43 | T 3 |
| F 4 | 18 49 49 | 12°17'46 | 21° 0 | 27°D42 | 3°19 | 13° 1 | 17°28 | 19°24 | 2°41 | 3°17 | 6°59 | 16°41 | 16°15 | 25°34 | 24°50 | F 4 |
| S 5 | 18 53 46 | 13°14'59 | 5 Ⅱ 42 | 27°42 | 4°33 | 13°29 | 17°26 | 19°20 | 2°45 | 3°17 | 7° 0 | 16°36 | 16°12 | 25°40 | 24°57 | S 5 |
| S 6 | 18 57 43 | 14°12'12 | 20°33 | 27°48 | 5°46 | 13°58 | 17°25 | 19°17 | 2°48 | 3°R17 | 7° 2 | 16°28 | 16° 9 | 25°47 | 25° 4 | S 6 |
| M 7 | 19 1 39 | 15° 9'25 | 5923 | 27°59 | 6°59 | 14°27 | 17°23 | 19°14 | 2°52 | 3°17 | 7° 4 | 16°17 | 16° 6 | 25°54 | 25°11 | M 7 |
| T 8 W 9 | 19 5 36 19 9 32 | 16° 6'39 17° 3'53 | 20° 5 4 Ω 30 | 28°15 28°36 | 8°12 9°25 | 14°56 15°26 | 17°22 17°21 | 19°11 19°7 | 2°55 2°59 | 3°17 3°17 | 7° 5 7° 7 | 16° 6 15°55 | 16° 3 15°59 | 26° 0 26° 7 | 25°18 25°26 | T 8 W 9 |
| T 10 | 19 9 32 | 17 333 18° 1'08 | 18°33 | 28 30 29° 3 | 10°38 | 15°56 | 17°21 | 19 / 19° 4 | 3° 3 | 3°17 | 7° 9 | 15°45 | 15°56 | 26°14 | 25°33 | T 10 |
| F 11 | 19 17 25 | 18°58'22 | 2m) 9 | 29°35 | 11°51 | 16°26 | 17°19 | 19° 0 | 3° 6 | 3°17 | 7°11 | 15°38 | 15°53 | 26°20 | 25°40 | F 11 |
| S 12 | 19 21 22 | 19°55'37 | 15°19 | 0913 | 13° 4 | 16°56 | 17°19 | 18°57 | 3°10 | 3°17 | 7°12 | 15°33 | 15°50 | 26°27 | 25°48 | S 12 |
| S 13 | 19 25 18 | 20°52'51 | 28° 4 | 0°55 | 14°17 | 17°27 | 17°19 | 18°53 | 3°13 | 3°16 | 7°14 | 15°30 | 15°47 | 26°34 | 25°55 | S 13 |
| M14 | 19 29 15 | 21°50'06 | 10 <u>₽</u> 27 | 1°43 | 15°30 | 17°58 | 17°D18 | 18°49 | 3°17 | 3°16 | 7°16 | 15°29 | 15°43 | 26°40 | 26° 2 | M14 |
| T 15 | 19 33 12 | 22°47'21 | 22°34 | 2°37 | 16°43 | 18°29 | 17°18 | 18°46 | 3°20 | 3°16 | 7°17 | 15°29 | 15°40 | 26°47 | 26°10 | T 15 |
| W16 | 19 37 8 | 23°44'37 | 4 M .30 | 3°35 | 17°56 | 19° 0 | 17°19 | 18°42 | 3°23 | 3°16 | 7°19 | 15°29 | 15°37 | 26°54 | 26°17 | W16 |
| T 17 | 19 41 5 | 24°41'52 | 16°20 | 4°39 | 19° 9 | 19°32 | 17°19 | 18°38 | 3°27 | 3°15 | 7°21 | 15°27 | 15°34 | 27° 0 | 26°25 | T 17 |
| F 18 | 19 45 1 | 25°39'08 | 28°10 | 5°47 | 20°22 | 20° 3 | 17°20 | 18°34 | 3°30 | 3°15 | 7°23 | 15°24 | 15°31 | 27° 7 | 26°33 | F 18 |
| S 19 | 19 48 58 | 26°36'25 | 10 ∡ 3 | 7° 0 | 21°35 | 20°35 | 17°21 | 18°30 | 3°34 | 3°14 | 7°24 | 15°17 | 15°28 | 27°14 | 26°40 | S 19 |
| S 20 | 19 52 54 | 27°33'42 | 22° 4 | 8°19 | 22°48 | 21° 8 | 17°21 | 18°26 | 3°37 | 3°14 | 7°26 | 15° 8 | 15°24 | 27°20 | 26°48 | S 20 |
| M21 | 19 56 51 20 0 47 | 28°30'59 29°28'17 | 4 궁 16 | 9°42 11° 9 | 24° 1 25°14 | 21°40 22°13 | 17°23 17°24 | 18°22 | 3°40 3°44 | 3°13 3°13 | 7°28 7°30 | 14°57 | 15°21 15°18 | 27°27 27°34 | 26°56 27° 3 | M21 T 22 |
| T 22 W23 | 20 0 47 20 4 44 | $0\Omega 25'36$ | 16°39 29°16 | 11° 9 | 26°26 | 22°45 | 17°24 17°25 | 18°18 18°14 | 3°47 | 3°13 | 7°31 | 14°45 14°33 | 15°18 | 27°40 | 27° 3 | W23 |
| T 24 | 20 8 41 | 1°22'55 | 12 ≈ 5 | 14°17 | 27°39 | 23°18 | 17°27 | 18°10 | 3°50 | 3°12 | 7°33 | 14°21 | 15°12 | 27°47 | 27°19 | T 24 |
| F 25 | 20 12 37 | 2°20'16 | 25° 7 | 15°57 | 28°52 | 23°52 | 17°29 | 18° 5 | 3°54 | 3°11 | 7°35 | 14°12 | 15° 9 | 27°54 | 27°27 | F 25 |
| S 26 | 20 16 34 | 3°17'37 | 8 ∺ 20 | 17°40 | 0 Mp 5 | 24°25 | 17°31 | 18° 1 | 3°57 | 3°11 | 7°37 | 14° 5 | 15° 5 | 28° 1 | 27°35 | S 26 |
| S 27 | 20 20 30 | 4°14'59 | 21°44 | 19°28 | 1°18 | 24°59 | 17°33 | 17°57 | 4° 0 | 3°10 | 7°38 | 14° 0 | 15° 2 | 28° 7 | 27°43 | S 27 |
| M28 | 20 24 27 | 5°12'22 | 5 Ƴ 19 | 21°18 | 2°30 | 25°32 | 17°36 | 17°53 | 4° 3 | 3° 9 | 7°40 | 13°58 | 14°59 | 28°14 | 27°51 | M28 |
| T 29 | 20 28 23 | 6° 9'46 | 19° 4 | 23°11 | 3°43 | 26° 6 | 17°38 | 17°48 | 4° 7 | 3° 9 | 7°42 | 13°D58 | 14°56 | 28°21 | 27°59 | T 29 |
| W30 | 20 32 20 | 7° 7'12 | 2859 | 25° 7 | 4°56 | 26°41 | 17°41 | 17°44 | 4°10 | 3° 8 | 7°44 | 13°R59 | 14°53 | 28°27 | 28° 7 | W30 |
| T 31 | 20 36 16 | 8 Ω 4'39 | 17 8 5 | 2799 5 | 6M) 8 | 27 ≙ 15 | 17 M 44 | 17≈40 | 49513 | 3 ℃ 7 | 7Ω 46 | 13 ≏ 58 | 14 ≏ 49 | 28 M 34 | 28 Ω 15 | T 31 |

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Greg. Calendar

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| Day | Sid.t | 0 | 9 | φ | φ | δ | 4 | ħ |)Ϋ(| ¥ | 2 | R | Ω | ţ | , K | Day |
|------|----------|--------------------|----------------|-----------------|----------------|----------------|----------------|----------------|-------|---------------|---------------|----------------|----------------|---------------|----------------|------|
| F 1 | 20 40 13 | 9 ⋒ 2'07 | 1 Ⅱ 21 | 2995 5 | 7 Mp 21 | 27 ♀ 50 | 17 M 47 | 17°R35 | 49916 | 3°R 6 | 7 Ω 47 | 13°R57 | 14 <u>₽</u> 46 | 28M41 | 28 Ω 23 | F 1 |
| S 2 | 20 44 10 | 9°59'37 | 15°44 | 1 0 6 | 8°33 | 28°24 | 17°50 | 17 ≈ 31 | 4°19 | 3 Υ 6 | 7°49 | 13 ≏ 52 | 14°43 | 28°47 | 28°31 | S 2 |
| S 3 | 20 48 6 | 10°57'08 | 0911 | 3° 9 | 9°46 | 28°59 | 17°53 | 17°26 | 4°22 | 3° 5 | 7°51 | 13°46 | 14°40 | 28°54 | 28°39 | S 3 |
| M 4 | 20 52 3 | 11°54'40 | 14°36 | 5°12 | 10°59 | 29°34 | 17°57 | 17°22 | 4°25 | 3° 4 | 7°53 | 13°37 | 14°37 | 29° 1 | 28°47 | M 4 |
| T 5 | 20 55 59 | 12°52'14 | 28°55 | 7°15 | 12°11 | 0 M _10 | 18° 1 | 17°17 | 4°28 | 3° 3 | 7°55 | 13°28 | 14°34 | 29° 7 | 28°55 | T 5 |
| W 6 | 20 59 56 | 13°49'48 | 13 N 1 | 9°19 | 13°24 | 0°45 | 18° 5 | 17°13 | 4°31 | 3° 2 | 7°56 | 13°18 | 14°30 | 29°14 | 29° 4 | W 6 |
| T 7 | 21 3 52 | 14°47'24 | 26°48 | 11°22 | 14°36 | 1°21 | 18° 9 | 17° 8 | 4°34 | 3° 1 | 7°58 | 13°10 | 14°27 | 29°21 | 29°12 | T 7 |
| F 8 | 21 7 49 | 15°45'01 | 10 m 15 | 13°26 | 15°49 | 1°56 | 18°13 | 17° 4 | 4°37 | 3° 0 | 8° 0 | 13° 4 | 14°24 | 29°27 | 29°20 | F 8 |
| S 9 | 21 11 45 | 16°42'39 | 23°19 | 15°28 | 17° 1 | 2°32 | 18°17 | 16°59 | 4°40 | 2°59 | 8° 2 | 13° 0 | 14°21 | 29°34 | 29°28 | S 9 |
| S 10 | 21 15 42 | 17°40'18 | 6 º 1 | 17°30 | 18°13 | 3° 9 | 18°22 | 16°55 | 4°43 | 2°58 | 8° 3 | 12°58 | 14°18 | 29°41 | 29°37 | S 10 |
| M11 | 21 19 39 | 18°37'58 | 18°24 | 19°31 | 19°26 | 3°45 | 18°27 | 16°50 | 4°46 | 2°57 | 8° 5 | 12°D58 | 14°15 | 29°47 | 29°45 | M11 |
| T 12 | 21 23 35 | 19°35'39 | 0 M .32 | 21°31 | 20°38 | 4°21 | 18°32 | 16°46 | 4°49 | 2°56 | 8° 7 | 12°59 | 14°11 | 29°54 | 29°53 | T 12 |
| W13 | 21 27 32 | 20°33'21 | 12°29 | 23°30 | 21°50 | 4°58 | 18°37 | 16°41 | 4°51 | 2°55 | 8° 9 | 13° 0 | 14° 8 | 0 才 1 | 0MD 2 | W13 |
| T 14 | 21 31 28 | 21°31'05 | 24°21 | 25°28 | 23° 3 | 5°35 | 18°42 | 16°37 | 4°54 | 2°54 | 8°10 | 13°R 0 | 14° 5 | 0° 7 | 0°10 | T 14 |
| F 15 | 21 35 25 | 22°28'49 | 6 ₮ 12 | 27°24 | 24°15 | 6°12 | 18°47 | 16°32 | 4°57 | 2°52 | 8°12 | 12°59 | 14° 2 | 0°14 | 0°18 | F 15 |
| S 16 | 21 39 21 | 23°26'35 | 18° 7 | 29°19 | 25°27 | 6°49 | 18°53 | 16°28 | 5° 0 | 2°51 | 8°14 | 12°56 | 13°59 | 0°21 | 0°27 | S 16 |
| S 17 | 21 43 18 | 24°24'22 | 0 궁 12 | 1 m p 13 | 26°39 | 7°26 | 18°58 | 16°24 | 5° 2 | 2°50 | 8°16 | 12°51 | 13°55 | 0°28 | 0°35 | S 17 |
| M18 | 21 47 14 | 25°22'10 | 12°29 | 3° 6 | 27°51 | 8° 3 | 19° 4 | 16°19 | 5° 5 | 2°49 | 8°17 | 12°44 | 13°52 | 0°34 | 0°44 | M18 |
| T 19 | 21 51 11 | 26°19'59 | 25° 2 | 4°57 | 29° 3 | 8°41 | 19°10 | 16°15 | 5° 7 | 2°48 | 8°19 | 12°36 | 13°49 | 0°41 | 0°52 | T 19 |
| W20 | 21 55 8 | 27°17'50 | 7≈52 | 6°47 | 0 ჲ 15 | 9°18 | 19°16 | 16°10 | 5°10 | 2°46 | 8°21 | 12°28 | 13°46 | 0°48 | 1° 0 | W20 |
| T 21 | 21 59 4 | 28°15'42 | 20°58 | 8°35 | 1°27 | 9°56 | 19°23 | 16° 6 | 5°12 | 2°45 | 8°22 | 12°21 | 13°43 | 0°54 | 1° 9 | T 21 |
| F 22 | 22 3 1 | 29°13'36 | 4 ∺ 21 | 10°22 | 2°39 | 10°34 | 19°29 | 16° 2 | 5°15 | 2°44 | 8°24 | 12°15 | 13°40 | 1° 1 | 1°17 | F 22 |
| S 23 | 22 6 57 | 0 m p 11'31 | 17°58 | 12° 8 | 3°51 | 11°12 | 19°35 | 15°57 | 5°17 | 2°42 | 8°26 | 12°10 | 13°36 | 1° 8 | 1°26 | S 23 |
| S 24 | 22 10 54 | 1° 9'28 | 1 Y 46 | 13°53 | 5° 3 | 11°50 | 19°42 | 15°53 | 5°20 | 2°41 | 8°27 | 12° 8 | 13°33 | 1°14 | 1°34 | S 24 |
| M25 | 22 14 50 | 2° 7'26 | 15°44 | 15°36 | 6°15 | 12°29 | 19°49 | 15°49 | 5°22 | 2°40 | 8°29 | 12°D 8 | 13°30 | 1°21 | 1°43 | M25 |
| T 26 | 22 18 47 | 3° 5'27 | 29°48 | 17°18 | 7°27 | 13° 7 | 19°56 | 15°45 | 5°24 | 2°38 | 8°31 | 12° 9 | 13°27 | 1°28 | 1°51 | T 26 |
| W27 | 22 22 43 | 4° 3'29 | 13 8 56 | 18°59 | 8°39 | 13°46 | 20° 3 | 15°41 | 5°27 | 2°37 | 8°32 | 12°10 | 13°24 | 1°34 | 2° 0 | W27 |
| T 28 | 22 26 40 | 5° 1'33 | 28° 6 | 20°38 | 9°50 | 14°25 | 20°10 | 15°37 | 5°29 | 2°36 | 8°34 | 12°11 | 13°20 | 1°41 | 2° 8 | T 28 |
| F 29 | 22 30 37 | 5°59'40 | 12 Ⅱ 17 | 22°16 | 11° 2 | 15° 3 | 20°18 | 15°32 | 5°31 | 2°34 | 8°36 | 12°R11 | 13°17 | 1°48 | 2°16 | F 29 |
| S 30 | 22 34 33 | 6°57'48 | 26°27 | 23°53 | 12°14 | 15°43 | 20°25 | 15°28 | 5°33 | 2°33 | 8°37 | 12°10 | 13°14 | 1°54 | 2°25 | S 30 |
| S 31 | 22 38 30 | 7 m 55'59 | 10933 | 25 m 29 | 13 ≏ 26 | 16 M 22 | 20 M 33 | 15≈24 | 5935 | 2 Y 31 | 8 N 39 | 12 ♀ 7 | 13 ≏ 11 | 2 ,7 1 | 2 Mp 33 | S 31 |

Delta T = 14.79 sec

SEPTEMBER 1698 GC 00:00 UT

| Day | Sid.t | 0 | D | Ϋ́ | Q | ð | 4 | ħ |)Å(| 并 | Р | ß | v | ţ | o k | Day |
|------|----------|--------------------|----------------|-----------------|----------------|---------------|----------------|--------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|------|
| M 1 | 22 42 26 | 8 m) 54'11 | 24934 | 27 m) 4 | 14 ♀ 37 | 17 M 1 | 20M41 | 15°R20 | 5 9 37 | 2°R30 | 8 Ω 40 | 12°R 3 | 13 ₾ 8 | 2 √ 8 | 2 Mp 42 | M 1 |
| T 2 | 22 46 23 | 9°52'26 | 8 Ω 25 | 28°37 | 15°49 | 17°40 | 20°48 | 15≈17 | 5°39 | 2 Υ 28 | 8°42 | 11 ≏ 58 | 13° 5 | 2°15 | 2°50 | T 2 |
| W 3 | 22 50 19 | 10°50'42 | 22° 4 | 0 호 9 | 17° 0 | 18°20 | 20°57 | 15°13 | 5°41 | 2°27 | 8°44 | 11°53 | 13° 1 | 2°21 | 2°59 | W 3 |
| T 4 | 22 54 16 | 11°49'00 | 5 m 29 | 1°40 | 18°12 | 19° 0 | 21° 5 | 15° 9 | 5°43 | 2°25 | 8°45 | 11°48 | 12°58 | 2°28 | 3° 7 | T 4 |
| F 5 | 22 58 12 | 12°47'20 | 18°37 | 3°10 | 19°23 | 19°39 | 21°13 | 15° 5 | 5°45 | 2°24 | 8°47 | 11°45 | 12°55 | 2°35 | 3°15 | F 5 |
| S 6 | 23 2 9 | 13°45'42 | 1 ≏ 27 | 4°38 | 20°35 | 20°19 | 21°21 | 15° 2 | 5°47 | 2°22 | 8°48 | 11°43 | 12°52 | 2°41 | 3°24 | S 6 |
| S 7 | 23 6 5 | 14°44'05 | 14° 1 | 6° 6 | 21°46 | 20°59 | 21°30 | 14°58 | 5°49 | 2°21 | 8°50 | 11°D43 | 12°49 | 2°48 | 3°32 | S 7 |
| M 8 | 23 10 2 | 15°42'30 | 26°20 | 7°32 | 22°57 | 21°39 | 21°39 | 14°54 | 5°51 | 2°19 | 8°51 | 11°44 | 12°46 | 2°55 | 3°41 | M 8 |
| T 9 | 23 13 59 | 16°40'57 | 8M26 | 8°57 | 24° 8 | 22°20 | 21°47 | 14°51 | 5°52 | 2°17 | 8°53 | 11°45 | 12°42 | 3° 1 | 3°49 | T 9 |
| W10 | 23 17 55 | 17°39'26 | 20°22 | 10°21 | 25°20 | 23° 0 | 21°56 | 14°48 | 5°54 | 2°16 | 8°54 | 11°47 | 12°39 | 3° 8 | 3°57 | W10 |
| T 11 | 23 21 52 | 18°37'56 | 2 7 14 | 11°43 | 26°31 | 23°41 | 22° 5 | 14°44 | 5°56 | 2°14 | 8°56 | 11°48 | 12°36 | 3°15 | 4° 6 | T 11 |
| F 12 | 23 25 48 | 19°36'29 | 14° 5 | 13° 4 | 27°42 | 24°21 | 22°14 | 14°41 | 5°57 | 2°13 | 8°57 | 11°49 | 12°33 | 3°21 | 4°14 | F 12 |
| S 13 | 23 29 45 | 20°35'02 | 26° 1 | 14°24 | 28°53 | 25° 2 | 22°23 | 14°38 | 5°59 | 2°11 | 8°58 | 11°R49 | 12°30 | 3°28 | 4°22 | S 13 |
| S 14 | 23 33 41 | 21°33'38 | 8중 5 | 15°42 | OM 4 | 25°43 | 22°33 | 14°35 | 6° 0 | 2° 9 | 9° 0 | 11°48 | 12°26 | 3°35 | 4°30 | S 14 |
| M15 | 23 37 38 | 22°32'15 | 20°24 | 16°59 | 1°15 | 26°24 | 22°42 | 14°32 | 6° 2 | 2° 8 | 9° 1 | 11°47 | 12°23 | 3°42 | 4°39 | M15 |
| T 16 | 23 41 34 | 23°30'54 | 3≈ 0 | 18°15 | 2°26 | 27° 5 | 22°52 | 14°29 | 6° 3 | 2° 6 | 9° 3 | 11°44 | 12°20 | 3°48 | 4°47 | T 16 |
| W17 | 23 45 31 | 24°29'34 | 15°56 | 19°28 | 3°37 | 27°46 | 23° 1 | 14°26 | 6° 4 | 2° 4 | 9° 4 | 11°42 | 12°17 | 3°55 | 4°55 | W17 |
| T 18 | 23 49 28 | 25°28'17 | 29°13 | 20°41 | 4°47 | 28°27 | 23°11 | 14°23 | 6° 6 | 2° 3 | 9° 5 | 11°39 | 12°14 | 4° 2 | 5° 3 | T 18 |
| F 19 | 23 53 24 | 26°27'01 | 12) 52 | 21°51 | 5°58 | 29° 9 | 23°21 | 14°20 | 6° 7 | 2° 1 | 9° 6 | 11°37 | 12°11 | 4° 8 | 5°11 | F 19 |
| S 20 | 23 57 21 | 27°25'47 | 26°50 | 22°59 | 7° 9 | 29°50 | 23°31 | 14°17 | 6° 8 | 1°59 | 9° 8 | 11°36 | 12° 7 | 4°15 | 5°20 | S 20 |
| S 21 | 0 117 | 28°24'35 | 11 ° 4 | 24° 6 | 8°19 | 0 ₮ 32 | 23°41 | 14°15 | 6° 9 | 1°58 | 9° 9 | 11°D36 | 12° 4 | 4°22 | 5°28 | S 21 |
| M22 | 0 5 14 | 29°23'25 | 25°29 | 25°10 | 9°30 | 1°14 | 23°51 | 14°12 | 6°10 | 1°56 | 9°10 | 11°36 | 12° 1 | 4°28 | 5°36 | M22 |
| T 23 | 0 9 10 | 0 ≙ 22'17 | 108 0 | 26°12 | 10°40 | 1°55 | 24° 1 | 14°10 | 6°11 | 1°54 | 9°12 | 11°37 | 11°58 | 4°35 | 5°44 | T 23 |
| W24 | 0 13 7 | 1°21'12 | 24°31 | 27°12 | 11°51 | 2°37 | 24°12 | 14° 8 | 6°12 | 1°53 | 9°13 | 11°38 | 11°55 | 4°42 | 5°52 | W24 |
| T 25 | 0 17 3 | 2°20'09 | 8耳57 | 28° 9 | 13° 1 | 3°19 | 24°22 | 14° 5 | 6°13 | 1°51 | 9°14 | 11°39 | 11°52 | 4°48 | 6° 0 | T 25 |
| F 26 | 0 21 0 | 3°19'08 | 23°16 | 29° 3 | 14°11 | 4° 1 | 24°33 | 14° 3 | 6°14 | 1°49 | 9°15 | 11°39 | 11°48 | 4°55 | 6° 8 | F 26 |
| S 27 | 0 24 57 | 4°18'10 | 7923 | 29°54 | 15°21 | 4°44 | 24°43 | 14° 1 | 6°15 | 1°48 | 9°16 | 11°R39 | 11°45 | 5° 2 | 6°16 | S 27 |
| S 28 | 0 28 53 | 5°17'14 | 21°18 | 0 M .41 | 16°31 | 5°26 | 24°54 | 13°59 | 6°15 | 1°46 | 9°17 | 11°39 | 11°42 | 5° 9 | 6°24 | S 28 |
| M29 | 0 32 50 | 6°16'20 | 5 Ω 0 | 1°25 | 17°41 | 6° 8 | 25° 5 | 13°57 | 6°16 | 1°44 | 9°18 | 11°38 | 11°39 | 5°15 | 6°31 | M29 |
| T 30 | 0 36 46 | 7 ≏ 15'29 | 18 Ω 28 | 2 m 5 | 18 M 51 | 6 ₹ 51 | 25 M 16 | 13≈55 | 6917 | 1 Ƴ 43 | 9 Ω 20 | 11 ≏ 38 | 11 ≏ 36 | 5 ₹ 22 | 6 m 39 | T 30 |

Delta T = 14.76 sec

Greg. Calendar

| OCTOBER 1698 GC | 00:00 UT |
|-----------------|----------|
| ULIUDEK 1090 GL | 00:00 01 |

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| ¥ | Р | r | Ω | Ç | Š | Day |
|------|---------|------------------|-----------------|----------------|----------------|----------------|----------------|----------------|-------|---------------|---------------|----------------|----------------|---------------|-----------------|------|
| W 1 | 0 40 43 | 8 ₽ 14'40 | 1 m 41 | 2 M 41 | 20 M 1 | 7 , ₹34 | 25 M 27 | 13°R54 | 69917 | 1°R41 | 9 Ω 21 | 11°R37 | 11 ≏ 32 | 5 ₹ 29 | 6 m 47 | W 1 |
| T 2 | 0 44 39 | 9°13'53 | 14°41 | 3°11 | 21°11 | 8°16 | 25°38 | 13≈52 | 6°18 | 1 Υ 39 | 9°22 | 11 ≏ 37 | 11°29 | 5°35 | 6°55 | T 2 |
| F 3 | 0 48 36 | 10°13'08 | 27°27 | 3°37 | 22°21 | 8°59 | 25°49 | 13°51 | 6°18 | 1°38 | 9°23 | 11°37 | 11°26 | 5°42 | 7° 2 | F 3 |
| S 4 | 0 52 32 | 11°12'26 | 10 호 0 | 3°57 | 23°31 | 9°42 | 26° 0 | 13°49 | 6°19 | 1°36 | 9°24 | 11°37 | 11°23 | 5°49 | 7°10 | S 4 |
| S 5 | 0 56 29 | 12°11'45 | 22°22 | 4°11 | 24°40 | 10°25 | 26°11 | 13°48 | 6°19 | 1°35 | 9°25 | 11°37 | 11°20 | 5°55 | 7°18 | S 5 |
| M 6 | 1 0 25 | 13°11'07 | 4MJ32 | 4°R18 | 25°50 | 11°8 | 26°23 | 13°47 | 6°20 | 1°33 | 9°26 | 11°37 | 11°17 | 6° 2 | 7°25 | M 6 |
| T 7 | 1 4 22 | 14°10'30 | 16°33 | 4°18 | 26°59 | 11°51 | 26°34 | 13°45 | 6°20 | 1°31 | 9°26 | 11°37 | 11°13 | 6° 9 | 7°33 | T 7 |
| W 8 | 1 8 19 | 15° 9'55 | 28°27 | 4°10 | 28° 8 | 12°34 | 26°46 | 13°44 | 6°20 | 1°30 | 9°27 | 11°36 | 11°10 | 6°16 | 7°40 | W 8 |
| T 9 | 1 12 15 | 16° 9'23 | 10 × 18 | 3°54 | 29°18 | 13°18 | 26°57 | 13°43 | 6°20 | 1°28 | 9°28 | 11°36 | 11° 7 | 6°22 | 7°48 | T 9 |
| F 10 | 1 16 12 | 17° 8'52 | 2 <u>2</u> ° 8 | 3°30 | 0 ∡ 127 | 14° 1 | 27° 9 | 13°43 | 6°20 | 1°26 | 9°29 | 11°35 | 11° 4 | 6°29 | 7°55 | F 10 |
| S 11 | 1 20 8 | 18° 8'23 | 4 궁 3 | 2°58 | 1°36 | 14°45 | 27°21 | 13°42 | 6°20 | 1°25 | 9°30 | 11°35 | 11° 1 | 6°36 | 8° 2 | S 11 |
| S 12 | 1 24 5 | 19° 7'56 | 16° 5 | 2°17 | 2°45 | 15°28 | 27°32 | 13°41 | 6°R21 | 1°23 | 9°31 | 11°D34 | 10°57 | 6°42 | 8°10 | S 12 |
| M13 | 1 28 1 | 20° 7'30 | 28°20 | 1°28 | 3°54 | 16°12 | 27°44 | 13°41 | 6°20 | 1°22 | 9°32 | 11°34 | 10°54 | 6°49 | 8°17 | M13 |
| T 14 | 1 31 58 | 21° 7'07 | 10≈53 | 0°31 | 5° 2 | 16°56 | 27°56 | 13°40 | 6°20 | 1°20 | 9°32 | 11°35 | 10°51 | 6°56 | 8°24 | T 14 |
| W15 | 1 35 54 | 22° 6'45 | 23°46 | 29 ≏ 27 | 6°11 | 17°39 | 28° 8 | 13°40 | 6°20 | 1°19 | 9°33 | 11°36 | 10°48 | 7° 2 | 8°31 | W15 |
| T 16 | 1 39 51 | 23° 6'25 | 7) 4 | 28°18 | 7°20 | 18°23 | 28°20 | 13°40 | 6°20 | 1°17 | 9°34 | 11°37 | 10°45 | 7° 9 | 8°38 | T 16 |
| F 17 | 1 43 48 | 24° 6'06 | 20°48 | 27° 5 | 8°28 | 19° 7 | 28°32 | 13°40 | 6°20 | 1°16 | 9°34 | 11°38 | 10°42 | 7°16 | 8°45 | F 17 |
| S 18 | 1 47 44 | 25° 5'49 | 4 Ƴ 57 | 25°50 | 9°36 | 19°51 | 28°45 | 13°D40 | 6°19 | 1°14 | 9°35 | 11°R38 | 10°38 | 7°22 | 8°52 | S 18 |
| S 19 | 1 51 41 | 26° 5'35 | 19°28 | 24°35 | 10°44 | 20°36 | 28°57 | 13°40 | 6°19 | 1°13 | 9°36 | 11°38 | 10°35 | 7°29 | 8°59 | S 19 |
| M20 | 1 55 37 | 27° 5'22 | 4816 | 23°22 | 11°52 | 21°20 | 29° 9 | 13°40 | 6°19 | 1°11 | 9°36 | 11°37 | 10°32 | 7°36 | 9° 6 | M20 |
| T 21 | 1 59 34 | 28° 5'11 | 19°14 | 22°14 | 13° 0 | 22° 4 | 29°21 | 13°40 | 6°18 | 1°10 | 9°37 | 11°36 | 10°29 | 7°43 | 9°12 | T 21 |
| W22 | 2 3 30 | 29° 5'03 | 4 Ⅱ 12 | 21°13 | 14° 8 | 22°48 | 29°34 | 13°41 | 6°18 | 1°8 | 9°37 | 11°34 | 10°26 | 7°49 | 9°19 | W22 |
| T 23 | 2 7 27 | OM 4'56 | 19° 2 | 20°20 | 15°15 | 23°33 | 29°46 | 13°41 | 6°17 | 1° 7 | 9°38 | 11°31 | 10°23 | 7°56 | 9°26 | T 23 |
| F 24 | 2 11 23 | 1° 4'52 | 3939 | 19°37 | 16°23 | 24°17 | 29°59 | 13°42 | 6°17 | 1° 5 | 9°38 | 11°29 | 10°19 | 8° 3 | 9°32 | F 24 |
| S 25 | 2 15 20 | 2° 4'50 | 17°56 | 19° 5 | 17°30 | 25° 2 | 0 才 11 | 13°42 | 6°16 | 1° 4 | 9°39 | 11°28 | 10°16 | 8° 9 | 9°39 | S 25 |
| S 26 | 2 19 17 | 3° 4'50 | 1Ω52 | 18°44 | 18°37 | 25°47 | 0°24 | 13°43 | 6°15 | 1° 3 | 9°39 | 11°D27 | 10°13 | 8°16 | 9°45 | S 26 |
| M27 | 2 23 13 | 4° 4'53 | 15°26 | 18°D35 | 19°44 | 26°31 | 0°37 | 13°44 | 6°14 | 1° 1 | 9°40 | 11°28 | 10°10 | 8°23 | 9°51 | M27 |
| T 28 | 2 27 10 | 5° 4'57 | 28°40 | 18°38 | 20°51 | 27°16 | 0°49 | 13°45 | 6°13 | 1° 0 | 9°40 | 11°29 | 10° 7 | 8°29 | 9°58 | T 28 |
| W29 | 2 31 6 | 6° 5'04 | 11 m)36 | 18°51 | 21°58 | 28° 1 | 1° 2 | 13°46 | 6°13 | 0°59 | 9°40 | 11°30 | 10° 3 | 8°36 | 10° 4 | W29 |
| T 30 | 2 35 3 | 7° 5'13 | 24°16 | 19°15 | 23° 4 | 28°46 | 1°15 | 13°47 | 6°12 | 0°57 | 9°41 | 11°32 | 10° 0 | 8°43 | 10°10 | T 30 |
| F 31 | 2 38 59 | 8M 5'23 | 6 ≏ 43 | 19 ≙ 48 | 24 × 11 | 29 ~ 31 | 1 才 28 | 13 ≈ 49 | 69911 | 0 Υ 56 | 9 Ω 41 | 11°R33 | 9 ≙ 57 | 8 才 50 | 10 M)16 | F 31 |

Delta T = 14.73 sec

NOVEMBER 1698 GC 00:00 UT

| Day | Sid.t | 0 | D | φ | · | ð | 4 | ħ |)Å(| ¥ | Р | ß | Ω | Ç | , k | Day |
|------|---------|------------------|----------------|----------------|----------------|----------------|----------------|-------|--------------|---------------|---------------|----------------|---------------|----------------|----------------|------|
| S 1 | 2 42 56 | 9M 5'36 | 18 ≏ 59 | 20 ≏ 29 | 25 × 17 | 0 궁 16 | 1 ~ 141 | 13≈50 | 6°R10 | 0°R55 | 9 Ω 41 | 11°R33 | 9 ≙ 54 | 8 ∡ 756 | 10 m 22 | S 1 |
| S 2 | 2 46 52 | 10° 5'51 | 1 m 7 | 21°19 | 26°23 | 1° 1 | 1°54 | 13°52 | 6 9 9 | 0 Υ 54 | 9°42 | 11 ≏ 31 | 9°51 | 9° 3 | 10°28 | S 2 |
| M 3 | 2 50 49 | 11° 6'07 | 13° 8 | 22°15 | 27°28 | 1°46 | 2° 7 | 13°53 | 6° 7 | 0°53 | 9°42 | 11°28 | 9°48 | 9°10 | 10°33 | M 3 |
| T 4 | 2 54 46 | 12° 6'26 | 25° 3 | 23°17 | 28°34 | 2°32 | 2°20 | 13°55 | 6° 6 | 0°51 | 9°42 | 11°23 | 9°44 | 9°16 | 10°39 | T 4 |
| W 5 | 2 58 42 | 13° 6'46 | 6 ₹ 55 | 24°24 | 29°39 | 3°17 | 2°33 | 13°57 | 6° 5 | 0°50 | 9°42 | 11°18 | 9°41 | 9°23 | 10°45 | W 5 |
| T 6 | 3 2 3 9 | 14° 7'07 | 18°45 | 25°36 | 0 る 44 | 4° 2 | 2°46 | 13°59 | 6° 4 | 0°49 | 9°42 | 11°11 | 9°38 | 9°30 | 10°50 | T 6 |
| F 7 | 3 6 3 5 | 15° 7'30 | 0 궁 36 | 26°52 | 1°49 | 4°48 | 2°59 | 14° 1 | 6° 2 | 0°48 | 9°42 | 11° 5 | 9°35 | 9°37 | 10°56 | F 7 |
| S 8 | 3 10 32 | 16° 7'55 | 12°30 | 28°11 | 2°54 | 5°33 | 3°12 | 14° 3 | 6° 1 | 0°47 | 9°42 | 11° 0 | 9°32 | 9°43 | 11° 1 | S 8 |
| S 9 | 3 14 28 | 17° 8'21 | 24°32 | 29°33 | 3°58 | 6°19 | 3°25 | 14° 5 | 6° 0 | 0°46 | 9°42 | 10°56 | 9°28 | 9°50 | 11° 7 | S 9 |
| M10 | 3 18 25 | 18° 8'49 | 6≈43 | 0 M 57 | 5° 3 | 7° 4 | 3°38 | 14° 7 | 5°58 | 0°45 | 9°R42 | 10°53 | 9°25 | 9°57 | 11°12 | M10 |
| T 11 | 3 22 21 | 19° 9'18 | 19°10 | 2°23 | 6° 6 | 7°50 | 3°52 | 14°10 | 5°57 | 0°44 | 9°42 | 10°D53 | 9°22 | 10° 3 | 11°17 | T 11 |
| W12 | 3 26 18 | 20° 9'48 | 1 ∺ 56 | 3°51 | 7°10 | 8°36 | 4° 5 | 14°12 | 5°55 | 0°43 | 9°42 | 10°53 | 9°19 | 10°10 | 11°22 | W12 |
| T 13 | 3 30 15 | 21°10'19 | 15° 6 | 5°20 | 8°13 | 9°22 | 4°18 | 14°15 | 5°54 | 0°42 | 9°42 | 10°55 | 9°16 | 10°17 | 11°27 | T 13 |
| F 14 | 3 34 11 | 22°10'52 | 28°43 | 6°50 | 9°16 | 10° 7 | 4°32 | 14°17 | 5°52 | 0°41 | 9°42 | 10°56 | 9°13 | 10°23 | 11°32 | F 14 |
| S 15 | 3 38 8 | 23°11'26 | 12 Y 48 | 8°21 | 10°19 | 10°53 | 4°45 | 14°20 | 5°50 | 0°40 | 9°42 | 10°R57 | 9° 9 | 10°30 | 11°36 | S 15 |
| S 16 | 3 42 4 | 24°12'01 | 27°21 | 9°53 | 11°21 | 11°39 | 4°58 | 14°23 | 5°49 | 0°39 | 9°42 | 10°55 | 9° 6 | 10°37 | 11°41 | S 16 |
| M17 | 3 46 1 | 25°12'38 | 12 8 17 | 11°26 | 12°24 | 12°25 | 5°12 | 14°26 | 5°47 | 0°39 | 9°42 | 10°52 | 9° 3 | 10°44 | 11°46 | M17 |
| T 18 | 3 49 57 | 26°13'16 | 27°29 | 12°59 | 13°25 | 13°11 | 5°25 | 14°29 | 5°45 | 0°38 | 9°42 | 10°47 | 9° 0 | 10°50 | 11°50 | T 18 |
| W19 | 3 53 54 | 27°13'55 | 12 Ⅱ 47 | 14°32 | 14°27 | 13°57 | 5°38 | 14°32 | 5°43 | 0°37 | 9°41 | 10°40 | 8°57 | 10°57 | 11°55 | W19 |
| T 20 | 3 57 50 | 28°14'36 | 28° 0 | 16° 5 | 15°28 | 14°43 | 5°52 | 14°35 | 5°41 | 0°36 | 9°41 | 10°33 | 8°54 | 11° 4 | 11°59 | T 20 |
| F 21 | 4 1 47 | 29°15'18 | 12958 | 17°39 | 16°28 | 15°29 | 6° 5 | 14°39 | 5°39 | 0°36 | 9°41 | 10°26 | 8°50 | 11°10 | 12° 3 | F 21 |
| S 22 | 4 5 44 | 0 ≯ 16′02 | 27°32 | 19°13 | 17°28 | 16°15 | 6°19 | 14°42 | 5°37 | 0°35 | 9°40 | 10°20 | 8°47 | 11°17 | 12° 7 | S 22 |
| S 23 | 4 9 40 | 1°16'48 | 11 Ω 39 | 20°47 | 18°28 | 17° 2 | 6°32 | 14°46 | 5°36 | 0°34 | 9°40 | 10°16 | 8°44 | 11°24 | 12°11 | S 23 |
| M24 | 4 13 37 | 2°17'35 | 25°18 | 22°21 | 19°28 | 17°48 | 6°46 | 14°49 | 5°34 | 0°34 | 9°40 | 10°14 | 8°41 | 11°31 | 12°15 | M24 |
| T 25 | 4 17 33 | 3°18'24 | 8 m /30 | 23°55 | 20°27 | 18°34 | 6°59 | 14°53 | 5°31 | 0°33 | 9°39 | 10°D14 | 8°38 | 11°37 | 12°19 | T 25 |
| W26 | 4 21 30 | 4°19'14 | 21°19 | 25°29 | 21°25 | 19°21 | 7°13 | 14°57 | 5°29 | 0°33 | 9°39 | 10°15 | 8°34 | 11°44 | 12°22 | W26 |
| T 27 | 4 25 26 | 5°20'05 | 3 ≏ 49 | 27° 3 | 22°23 | 20° 7 | 7°26 | 15° 1 | 5°27 | 0°32 | 9°39 | 10°R15 | 8°31 | 11°51 | 12°26 | T 27 |
| F 28 | 4 29 23 | 6°20'58 | 16° 4 | 28°37 | 23°21 | 20°53 | 7°40 | 15° 5 | 5°25 | 0°32 | 9°38 | 10°15 | 8°28 | 11°57 | 12°29 | F 28 |
| S 29 | 4 33 19 | 7°21'52 | 28° 9 | 0 ≯ 11 | 24°18 | 21°40 | 7°53 | 15° 9 | 5°23 | 0°31 | 9°38 | 10°14 | 8°25 | 12° 4 | 12°33 | S 29 |
| S 30 | 4 37 16 | 8 才 22'48 | 10 M 6 | 1 才 45 | 25 궁 14 | 22 3 26 | 8 才 7 | 15≈13 | 59921 | 0 Υ 31 | 9 Ω 37 | 10 ♀ 9 | 8 ₾ 22 | 12 × 11 | 12 m 36 | S 30 |

Delta T = 14.70 sec

Greg. Calendar

| DECEMBER 1698 GC | 00:00 UT |
|------------------|----------|
| DECEMBER 1030 GC | 00:00 01 |

| Day | Sid.t | 0 | D | ğ | · | o [™] | 4 | ħ |) f (| ¥ | Р | U | ಭ | Ç | ę, | Day |
|------|---------|-------------------|------------------|----------------|----------------|----------------|----------------|----------------|--------------|---------------|---------------|---------------|---------------|----------------|----------------|------|
| M 1 | 4 41 13 | 9 ∡ 123'45 | 22 M 0 | 3 ∡ 19 | 26 궁 10 | 23 중 13 | 8 ₹ 120 | 15≈17 | 5°R18 | 0°R31 | 9°R36 | 10°R 2 | 8 ₾ 19 | 12 × 17 | 12 m 39 | M 1 |
| T 2 | 4 45 9 | 10°24'43 | 3 ₹ 51 | 4°53 | 27° 6 | 23°59 | 8°34 | 15°21 | 59916 | 0 Υ 30 | 9 Ω 36 | 9 ≏ 52 | 8°15 | 12°24 | 12°42 | T 2 |
| W 3 | 4 49 6 | 11°25'42 | 15°42 | 6°27 | 28° 0 | 24°46 | 8°47 | 15°26 | 5°14 | 0°30 | 9°35 | 9°41 | 8°12 | 12°31 | 12°45 | W 3 |
| T 4 | 4 53 2 | 12°26'41 | 27°34 | 8° 1 | 28°54 | 25°33 | 9° 1 | 15°30 | 5°12 | 0°30 | 9°35 | 9°28 | 8° 9 | 12°38 | 12°48 | T 4 |
| F 5 | 4 56 59 | 13°27'42 | 9 궁 29 | 9°35 | 29°48 | 26°19 | 9°14 | 15°34 | 5° 9 | 0°29 | 9°34 | 9°15 | 8° 6 | 12°44 | 12°51 | F 5 |
| S 6 | 5 0 55 | 14°28'44 | 21°27 | 11° 9 | 0≈41 | 27° 6 | 9°28 | 15°39 | 5° 7 | 0°29 | 9°33 | 9° 3 | 8° 3 | 12°51 | 12°53 | S 6 |
| S 7 | 5 4 52 | 15°29'46 | 3≈32 | 12°43 | 1°33 | 27°53 | 9°41 | 15°44 | 5° 5 | 0°29 | 9°33 | 8°53 | 8° 0 | 12°58 | 12°56 | S 7 |
| M 8 | 5 8 48 | 16°30'48 | 15°46 | 14°17 | 2°24 | 28°40 | 9°55 | 15°48 | 5° 2 | 0°29 | 9°32 | 8°46 | 7°56 | 13° 4 | 12°58 | M 8 |
| T 9 | 5 12 45 | 17°31'52 | 28°11 | 15°52 | 3°15 | 29°26 | 10° 8 | 15°53 | 5° 0 | 0°29 | 9°31 | 8°42 | 7°53 | 13°11 | 13° 0 | T 9 |
| W10 | 5 16 42 | 18°32'55 | 10) ₹ 53 | 17°26 | 4° 5 | 0≈13 | 10°22 | 15°58 | 4°57 | 0°29 | 9°30 | 8°40 | 7°50 | 13°18 | 13° 2 | W10 |
| T 11 | 5 20 38 | 19°33'59 | 23°54 | 19° 1 | 4°54 | 1° 0 | 10°35 | 16° 3 | 4°55 | 0°D29 | 9°30 | 8°D40 | 7°47 | 13°25 | 13° 4 | T 11 |
| F 12 | 5 24 35 | 20°35'04 | 7 Υ 20 | 20°35 | 5°42 | 1°47 | 10°49 | 16° 8 | 4°52 | 0°29 | 9°29 | 8°R40 | 7°44 | 13°31 | 13° 6 | F 12 |
| S 13 | 5 28 31 | 21°36'09 | 21°12 | 22°10 | 6°30 | 2°34 | 11° 2 | 16°13 | 4°50 | 0°29 | 9°28 | 8°40 | 7°40 | 13°38 | 13° 8 | S 13 |
| S 14 | 5 32 28 | 22°37'14 | 5 8 32 | 23°45 | 7°16 | 3°21 | 11°15 | 16°18 | 4°47 | 0°29 | 9°27 | 8°38 | 7°37 | 13°45 | 13°10 | S 14 |
| M15 | 5 36 24 | 23°38'19 | 20°18 | 25°20 | 8° 1 | 4° 7 | 11°29 | 16°24 | 4°45 | 0°29 | 9°26 | 8°32 | 7°34 | 13°51 | 13°11 | M15 |
| T 16 | 5 40 21 | 24°39'25 | 5 Ⅱ 26 | 26°55 | 8°45 | 4°54 | 11°42 | 16°29 | 4°42 | 0°29 | 9°25 | 8°24 | 7°31 | 13°58 | 13°13 | T 16 |
| W17 | 5 44 17 | 25°40'31 | 20°45 | 28°30 | 9°29 | 5°41 | 11°56 | 16°34 | 4°40 | 0°29 | 9°24 | 8°14 | 7°28 | 14° 5 | 13°14 | W17 |
| T 18 | 5 48 14 | 26°41'38 | 6 9 5 | 0 පි | 10°11 | 6°28 | 12° 9 | 16°40 | 4°37 | 0°29 | 9°23 | 8° 3 | 7°25 | 14°12 | 13°15 | T 18 |
| F 19 | 5 52 11 | 27°42'45 | 21°14 | 1°42 | 10°52 | 7°15 | 12°22 | 16°45 | 4°35 | 0°30 | 9°22 | 7°52 | 7°21 | 14°18 | 13°16 | F 19 |
| S 20 | 5 56 7 | 28°43'53 | 6 Ω 2 | 3°18 | 11°32 | 8° 2 | 12°36 | 16°51 | 4°32 | 0°30 | 9°21 | 7°42 | 7°18 | 14°25 | 13°17 | S 20 |
| S 21 | 6 0 4 | 29°45'01 | 20°22 | 4°54 | 12°10 | 8°49 | 12°49 | 16°56 | 4°29 | 0°30 | 9°20 | 7°34 | 7°15 | 14°32 | 13°18 | S 21 |
| M22 | 6 4 0 | 0 궁 46'10 | 4 Mp 1 1 | 6°31 | 12°47 | 9°36 | 13° 2 | 17° 2 | 4°27 | 0°31 | 9°19 | 7°30 | 7°12 | 14°38 | 13°19 | M22 |
| T 23 | 6 7 57 | 1°47'19 | 17°31 | 8° 7 | 13°23 | 10°23 | 13°15 | 17° 8 | 4°24 | 0°31 | 9°18 | 7°28 | 7° 9 | 14°45 | 13°19 | T 23 |
| W24 | 6 11 53 | 2°48'29 | 0 ჲ 23 | 9°44 | 13°58 | 11°10 | 13°28 | 17°14 | 4°22 | 0°32 | 9°17 | 7°27 | 7° 6 | 14°52 | 13°20 | W24 |
| T 25 | 6 15 50 | 3°49'39 | 12°53 | 11°22 | 14°31 | 11°57 | 13°42 | 17°20 | 4°19 | 0°32 | 9°16 | 7°27 | 7° 2 | 14°59 | 13°20 | T 25 |
| F 26 | 6 19 46 | 4°50'49 | 25° 6 | 12°59 | 15° 3 | 12°44 | 13°55 | 17°25 | 4°16 | 0°32 | 9°15 | 7°26 | 6°59 | 15° 5 | 13°20 | F 26 |
| S 27 | 6 23 43 | 5°52'00 | 7 M 6 | 14°36 | 15°33 | 13°31 | 14° 8 | 17°31 | 4°14 | 0°33 | 9°14 | 7°23 | 6°56 | 15°12 | 13°R20 | S 27 |
| S 28 | 6 27 40 | 6°53'11 | 18°59 | 16°14 | 16° 1 | 14°18 | 14°21 | 17°37 | 4°11 | 0°34 | 9°13 | 7°18 | 6°53 | 15°19 | 13°20 | S 28 |
| M29 | 6 31 36 | 7°54'23 | 0 才 49 | 17°52 | 16°28 | 15° 6 | 14°34 | 17°44 | 4° 9 | 0°34 | 9°12 | 7°10 | 6°50 | 15°25 | 13°20 | M29 |
| T 30 | 6 35 33 | <u>8°55'35</u> | 12°39 | 1 <u>9</u> °30 | 16°53 | 15°53 | 14°47 | 17°50 | 4° 6 | 0°35 | 9°10 | 6°58 | 6°46 | 15°32 | 13°20 | T 30 |
| W31 | 6 39 29 | 9 ප 56'46 | 24 × 31 | 21중 8 | 17≈16 | 16≈40 | 15 ₹ 0 | 17 ≈ 56 | 499 4 | 0 Υ 35 | 9Ω9 | 6 ≏ 44 | 6 ≏ 43 | 15 ₹ 39 | 13 m 20 | W31 |

Delta T = 14.67 sec

JANUARY 1699 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| Ħ | В | ß | S | Ç | , o | Day |
|------|---------|-------------------|----------------|----------------|--------|----------------|----------------|-------|-------|---------------|--------------|---------------|---------------|-----------------|-----------------|------|
| T 1 | 6 43 26 | 10 ට 57'58 | 6 ප 27 | 22 3 46 | 17≈37 | 17≈27 | 15 х 13 | 18≈ 2 | 4°R 1 | 0 Υ 36 | 9°R 8 | 6°R29 | 6 ₽ 40 | 15 ∡ 746 | 13°R19 | T 1 |
| F 2 | 6 47 22 | 11°59'10 | 18°29 | 24°23 | 17°56 | 18°14 | 15°25 | 18° 8 | 3958 | 0°37 | 9 N 7 | 6 ₽ 14 | 6°37 | 15°52 | 13 m 19 | F 2 |
| S 3 | 6 51 19 | 13° 0'21 | 0≈37 | 26° 1 | 18°14 | 19° 1 | 15°38 | 18°15 | 3°56 | 0°38 | 9° 6 | 6° 0 | 6°34 | 15°59 | 13°18 | S 3 |
| S 4 | 6 55 15 | 14° 1'32 | 12°52 | 27°38 | 18°29 | 19°48 | 15°51 | 18°21 | 3°53 | 0°38 | 9° 4 | 5°48 | 6°31 | 16° 6 | 13°17 | S 4 |
| M 5 | 6 59 12 | 15° 2'43 | 25°16 | 29°14 | 18°42 | 20°35 | 16° 4 | 18°27 | 3°51 | 0°39 | 9° 3 | 5°40 | 6°27 | 16°12 | 13°16 | M 5 |
| T 6 | 7 3 9 | 16° 3'53 | 7 ∺ 50 | 0≈50 | 18°53 | 21°22 | 16°16 | 18°34 | 3°48 | 0°40 | 9° 2 | 5°34 | 6°24 | 16°19 | 13°15 | T 6 |
| W 7 | 7 7 5 | 17° 5'03 | 20°36 | 2°25 | 19° 1 | 22°10 | 16°29 | 18°40 | 3°46 | 0°41 | 9° 1 | 5°31 | 6°21 | 16°26 | 13°14 | W 7 |
| T 8 | 7 11 2 | 18° 6'12 | 3 Ƴ 38 | 3°58 | 19° 7 | 22°57 | 16°42 | 18°47 | 3°43 | 0°42 | 8°59 | 5°D30 | 6°18 | 16°33 | 13°12 | T 8 |
| F 9 | 7 14 58 | 19° 7'20 | 16°58 | 5°30 | 19°11 | 23°44 | 16°54 | 18°54 | 3°41 | 0°43 | 8°58 | 5°R30 | 6°15 | 16°39 | 13°11 | F 9 |
| S 10 | 7 18 55 | 20° 8'28 | 0840 | 7° 0 | 19°R13 | 24°31 | 17° 6 | 19° 0 | 3°38 | 0°44 | 8°57 | 5°30 | 6°12 | 16°46 | 13°10 | S 10 |
| S 11 | 7 22 51 | 21° 9'35 | 14°45 | 8°28 | 19°11 | 25°18 | 17°19 | 19° 7 | 3°36 | 0°45 | 8°55 | 5°28 | 6° 8 | 16°53 | 13° 8 | S 11 |
| M12 | 7 26 48 | 22°10'41 | 29°12 | 9°52 | 19°8 | 26° 5 | 17°31 | 19°13 | 3°33 | 0°46 | 8°54 | 5°24 | 6° 5 | 16°59 | 13° 6 | M12 |
| T 13 | 7 30 44 | 23°11'46 | 13 Ⅱ 59 | 11°14 | 19° 2 | 26°52 | 17°43 | 19°20 | 3°31 | 0°47 | 8°53 | 5°16 | 6° 2 | 17° 6 | 13° 4 | T 13 |
| W14 | 7 34 41 | 24°12'51 | 29° 1 | 12°32 | 18°53 | 27°39 | 17°56 | 19°27 | 3°29 | 0°48 | 8°51 | 5° 7 | 5°59 | 17°13 | 13° 2 | W14 |
| T 15 | 7 38 38 | 25°13'54 | 1495 7 | 13°45 | 18°42 | 28°26 | 18° 8 | 19°34 | 3°26 | 0°49 | 8°50 | 4°56 | 5°56 | 17°20 | 13° 0 | T 15 |
| F 16 | 7 42 34 | 26°14'58 | 29° 8 | 14°52 | 18°28 | 29°13 | 18°20 | 19°41 | 3°24 | 0°51 | 8°49 | 4°45 | 5°52 | 17°26 | 12°58 | F 16 |
| S 17 | 7 46 31 | 27°16'00 | 13 Ω 54 | 15°54 | 18°12 | 0 ∺ 0 | 18°32 | 19°47 | 3°22 | 0°52 | 8°47 | 4°36 | 5°49 | 17°33 | 12°56 | S 17 |
| S 18 | 7 50 27 | 28°17'02 | 28°17 | 16°49 | 17°53 | 0°47 | 18°44 | 19°54 | 3°19 | 0°53 | 8°46 | 4°29 | 5°46 | 17°40 | 12°53 | S 18 |
| M19 | 7 54 24 | 29°18'03 | 12 m 13 | 17°36 | 17°32 | 1°34 | 18°56 | 20° 1 | 3°17 | 0°54 | 8°44 | 4°24 | 5°43 | 17°46 | 12°51 | M19 |
| T 20 | 7 58 20 | 0≈19'03 | 25°39 | 18°14 | 17° 9 | 2°21 | 19°8 | 20° 8 | 3°15 | 0°56 | 8°43 | 4°22 | 5°40 | 17°53 | 12°48 | T 20 |
| W21 | 8 2 17 | 1°20'03 | 8 ₾ 39 | 18°43 | 16°43 | 3° 8 | 19°19 | 20°15 | 3°13 | 0°57 | 8°42 | 4°D22 | 5°37 | 18° 0 | 12°46 | W21 |
| T 22 | 8 6 13 | 2°21'02 | 21°15 | 19° 1 | 16°16 | 3°55 | 19°31 | 20°22 | 3°10 | 0°58 | 8°40 | 4°22 | 5°33 | 18° 7 | 12°43 | T 22 |
| F 23 | 8 10 10 | 3°22'01 | 3 M .31 | 19°R 9 | 15°46 | 4°42 | 19°43 | 20°29 | 3° 8 | 1° 0 | 8°39 | 4°R23 | 5°30 | 18°13 | 12°40 | F 23 |
| S 24 | 8 14 7 | 4°22'59 | 15°34 | 19° 5 | 15°15 | 5°29 | 19°54 | 20°36 | 3° 6 | 1° 1 | 8°38 | 4°22 | 5°27 | 18°20 | 12°37 | S 24 |
| S 25 | 8 18 3 | 5°23'56 | 27°28 | 18°51 | 14°42 | 6°16 | 20° 6 | 20°43 | 3° 4 | 1° 3 | 8°36 | 4°19 | 5°24 | 18°27 | 12°34 | S 25 |
| M26 | 8 22 0 | 6°24'53 | 9 ∡ 18 | 18°25 | 14° 9 | 7° 3 | 20°17 | 20°50 | 3° 2 | 1° 4 | 8°35 | 4°14 | 5°21 | 18°33 | 12°31 | M26 |
| T 27 | 8 25 56 | 7°25'49 | 21° 8 | 17°48 | 13°33 | 7°49 | 20°28 | 20°57 | 3° 0 | 1° 5 | 8°33 | 4° 6 | 5°18 | 18°40 | 12°27 | T 27 |
| W28 | 8 29 53 | 8°26'43 | 3 る 3 | 17° 1 | 12°57 | 8°36 | 20°39 | 21° 4 | 2°58 | 1° 7 | 8°32 | 3°57 | 5°14 | 18°47 | 12°24 | W28 |
| T 29 | 8 33 49 | 9°27'37 | 15° 5 | 16° 6 | 12°21 | 9°23 | 20°50 | 21°12 | 2°56 | 1° 9 | 8°30 | 3°46 | 5°11 | 18°54 | 12°21 | T 29 |
| F 30 | 8 37 46 | 10°28'30 | 27°15 | 15° 3 | 11°44 | 10°10 | 21° 2 | 21°19 | 2°54 | 1°10 | 8°29 | 3°35 | 5° 8 | 19° 0 | 12°17 | F 30 |
| S 31 | 8 41 43 | 11≈29'22 | 9≈35 | 13≈56 | 11≈ 7 | 10 ∺ 57 | 21 % 12 | 21≈26 | 2952 | 1 Υ 12 | $8\Omega 28$ | 3 ≏ 25 | 5 º 5 | 19 .7 7 | 12 M)14 | S 31 |

Delta T = 14.64 sec Greg. Calendar

FEBRUARY 1699 GC 00:00 UT

| Day | Sid.t | \odot | D | ğ | · | ♂ [™] | 4 | ħ |)Å(| ¥ | Б | ¥ | v | Ç | ę, | Day |
|------|----------|--------------------|----------------------|----------------|---------------|-----------------|-----------------|-------|---------------|---------------|----------------|---------------|---------------|-----------------|----------------|------|
| S 1 | 8 45 39 | 12≈30'13 | 22≈ 5 | 12°R44 | 10°R30 | 11) (43 | 21 × 123 | 21≈33 | 2°R50 | 1 Υ 13 | 8°R26 | 3°R17 | 5 ₾ 2 | 19 ,7 14 | 12°R10 | S 1 |
| M 2 | 8 49 36 | 13°31'02 | 4) (46 | 11 ≈ 32 | 9 ≈ 53 | 12°30 | 21°34 | 21°40 | 2 9 49 | 1°15 | $8\Omega 25$ | 3 ≏ 10 | 4°58 | 19°20 | 12 Mp 6 | M 2 |
| T 3 | 8 53 32 | 14°31'50 | 17°37 | 10°20 | 9°17 | 13°17 | 21°45 | 21°47 | 2°47 | 1°17 | 8°23 | 3° 7 | 4°55 | 19°27 | 12° 2 | T 3 |
| W 4 | 8 57 29 | 15°32'36 | 0 Υ 40 | 9°11 | 8°42 | 14° 4 | 21°55 | 21°55 | 2°45 | 1°18 | 8°22 | 3°D 6 | 4°52 | 19°34 | 11°58 | W 4 |
| T 5 | 9 1 25 | 16°33'21 | 13°56 | 8° 6 | 8° 7 | 14°50 | 22° 6 | 22° 2 | 2°43 | 1°20 | 8°21 | 3° 6 | 4°49 | 19°41 | 11°54 | T 5 |
| F 6 | 9 5 22 | 17°34'05 | 27°24 | 7° 7 | 7°35 | 15°37 | 22°16 | 22° 9 | 2°42 | 1°22 | 8°19 | 3° 7 | 4°46 | 19°47 | 11°50 | F 6 |
| S 7 | 9 9 18 | 18°34'47 | 118 7 | 6°14 | 7° 3 | 16°24 | 22°26 | 22°16 | 2°40 | 1°24 | 8°18 | 3° 8 | 4°43 | 19°54 | 11°46 | S 7 |
| S 8 | 9 13 15 | 19°35'27 | 25° 5 | 5°28 | 6°33 | 17°10 | 22°37 | 22°24 | 2°39 | 1°25 | 8°16 | 3°R 8 | 4°39 | 20° 1 | 11°42 | S 8 |
| M 9 | 9 17 11 | 20°36'05 | 9 Ⅱ 18 | 4°50 | 6° 6 | 17°57 | 22°47 | 22°31 | 2°37 | 1°27 | 8°15 | 3° 7 | 4°36 | 20° 8 | 11°38 | M 9 |
| T 10 | 9 21 8 | 21°36'42 | 23°43 | 4°20 | 5°40 | 18°43 | 22°57 | 22°38 | 2°36 | 1°29 | 8°14 | 3° 3 | 4°33 | 20°14 | 11°34 | T 10 |
| W11 | 9 25 5 | 22°37'16 | 89518 | 3°58 | 5°16 | 19°30 | 23° 6 | 22°45 | 2°34 | 1°31 | 8°12 | 2°58 | 4°30 | 20°21 | 11°29 | W11 |
| T 12 | 9 29 1 | 23°37'50 | 22°57 | 3°44 | 4°55 | 20°16 | 23°16 | 22°53 | 2°33 | 1°33 | 8°11 | 2°52 | 4°27 | 20°28 | 11°25 | T 12 |
| F 13 | 9 32 58 | 24°38'21 | 7Ω 33 | 3°D37 | 4°35 | 21° 3 | 23°26 | 23° 0 | 2°32 | 1°35 | 8°10 | 2°46 | 4°24 | 20°34 | 11°21 | F 13 |
| S 14 | 9 36 54 | 25°38'51 | 21°59 | 3°37 | 4°19 | 21°49 | 23°35 | 23° 7 | 2°30 | 1°37 | 8° 8 | 2°41 | 4°20 | 20°41 | 11°16 | S 14 |
| S 15 | 9 40 51 | 26°39'19 | 6Mp 9 | 3°44 | 4° 4 | 22°35 | 23°45 | 23°14 | 2°29 | 1°38 | 8° 7 | 2°36 | 4°17 | 20°48 | 11°12 | S 15 |
| M16 | 9 44 47 | 27°39'45 | 19°57 | 3°57 | 3°52 | 23°22 | 23°54 | 23°21 | 2°28 | 1°40 | 8° 6 | 2°34 | 4°14 | 20°55 | 11° 7 | M16 |
| T 17 | 9 48 44 | 28°40'10 | 3 <u>₽</u> 22 | 4°16 | 3°43 | 24° 8 | 24° 3 | 23°29 | 2°27 | 1°42 | 8° 4 | 2°D33 | 4°11 | 21° 1 | 11° 2 | T 17 |
| W18 | 9 52 40 | 29°40'34 | 16°24 | 4°41 | 3°36 | 24°54 | 24°12 | 23°36 | 2°26 | 1°44 | 8° 3 | 2°34 | 4° 8 | 21° 8 | 10°58 | W18 |
| T 19 | 9 56 37 | 0) 40′56 | 29° 4 | 5°11 | 3°32 | 25°40 | 24°21 | 23°43 | 2°25 | 1°46 | 8° 2 | 2°36 | 4° 4 | 21°15 | 10°53 | T 19 |
| F 20 | 10 0 34 | 1°41'16 | 11 M 25 | 5°45 | 3°D30 | 26°26 | 24°30 | 23°50 | 2°24 | 1°48 | 8° 0 | 2°37 | 4° 1 | 21°21 | 10°48 | F 20 |
| S 21 | 10 4 30 | 2°41'35 | 23°32 | 6°25 | 3°30 | 27°13 | 24°39 | 23°57 | 2°23 | 1°50 | 7°59 | 2°39 | 3°58 | 21°28 | 10°44 | S 21 |
| S 22 | 10 8 27 | 3°41'53 | 5 ₹ 29 | 7° 8 | 3°33 | 27°59 | 24°47 | 24° 5 | 2°22 | 1°52 | 7°58 | 2°R39 | 3°55 | 21°35 | 10°39 | S 22 |
| M23 | 10 12 23 | 4°42'09 | 17°21 | 7°54 | 3°39 | 28°45 | 24°56 | 24°12 | 2°21 | 1°55 | 7°57 | 2°38 | 3°52 | 21°42 | 10°34 | M23 |
| T 24 | 10 16 20 | 5°42'24 | 29°13 | 8°45 | 3°46 | 29°31 | 25° 4 | 24°19 | 2°20 | 1°57 | 7°55 | 2°36 | 3°49 | 21°48 | 10°29 | T 24 |
| W25 | 10 20 16 | 6°42'37 | 11 궁 10 | 9°38 | 3°56 | 0 Υ 17 | 25°12 | 24°26 | 2°20 | 1°59 | 7°54 | 2°33 | 3°45 | 21°55 | 10°25 | W25 |
| T 26 | 10 24 13 | 7°42'49 | 23°15 | 10°35 | 4° 8 | 1° 3 | 25°21 | 24°33 | 2°19 | 2° 1 | 7°53 | 2°29 | 3°42 | 22° 2 | 10°20 | T 26 |
| F 27 | 10 28 9 | 8°42'59 | 5≈32 | 11°34 | 4°22 | 1°49 | 25°29 | 24°40 | 2°18 | 2° 3 | 7°52 | 2°25 | 3°39 | 22° 8 | 10°15 | F 27 |
| S 28 | 10 32 6 | 9) (43′07 | 18 ≈ 2 | 12 ≈ 36 | 4≈39 | 2 Y 35 | 25 ∡ 36 | 24≈47 | 29518 | 2 Υ 5 | $7\Omega_{51}$ | 2 ≏ 21 | 3 ₾ 36 | 22 × 15 | 10 m 10 | S 28 |

Delta T = 14.61 sec

MARCH 1699 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)f(| 卉 | Р | ß | Ω | Ç | ę, | Day |
|------|----------|---------------------|----------------|----------------|-------|----------------|-----------------|----------------|-------|---------------|--------------|---------------|---------------|----------------|---------------|------|
| S 1 | 10 36 3 | 10) (43'14 | 0 ∺ 47 | 13≈41 | 4≈57 | 3 Υ 21 | 25 × 744 | 24≈55 | 2°R17 | 2 Υ 7 | 7°R50 | 2°R18 | 3 ₾ 33 | 22 × 22 | 10°R 5 | S 1 |
| M 2 | 10 39 59 | 11°43'18 | 13°47 | 14°48 | 5°17 | 4° 6 | 25°52 | 25° 2 | 29517 | 2° 9 | $7\Omega48$ | 2 ≏ 16 | 3°29 | 22°29 | 10 Mg 0 | M 2 |
| T 3 | 10 43 56 | 12°43'21 | 27° 1 | 15°57 | 5°39 | 4°52 | 25°59 | 25° 9 | 2°16 | 2°11 | 7°47 | 2°D15 | 3°26 | 22°35 | 9°56 | T 3 |
| W 4 | 10 47 52 | 13°43'22 | 10 Υ 29 | 17° 8 | 6° 3 | 5°38 | 26° 6 | 25°16 | 2°16 | 2°14 | 7°46 | 2°15 | 3°23 | 22°42 | 9°51 | W 4 |
| T 5 | 10 51 49 | 14°43'20 | 24° 8 | 18°21 | 6°28 | 6°24 | 26°13 | 25°23 | 2°16 | 2°16 | 7°45 | 2°16 | 3°20 | 22°49 | 9°46 | T 5 |
| F 6 | 10 55 45 | 15°43'17 | 7 8 58 | 19°36 | 6°55 | 7° 9 | 26°20 | 25°30 | 2°15 | 2°18 | 7°44 | 2°17 | 3°17 | 22°56 | 9°41 | F 6 |
| S 7 | 10 59 42 | 16°43'11 | 21°57 | 20°52 | 7°24 | 7°55 | 26°27 | 25°36 | 2°15 | 2°20 | 7°43 | 2°18 | 3°14 | 23° 2 | 9°36 | S 7 |
| S 8 | 11 3 38 | 17°43'04 | 6 I I 2 | 22°10 | 7°54 | 8°40 | 26°34 | 25°43 | 2°15 | 2°22 | 7°42 | 2°19 | 3°10 | 23° 9 | 9°32 | S 8 |
| M 9 | 11 7 35 | 18°42'54 | 20°12 | 23°30 | 8°26 | 9°26 | 26°40 | 25°50 | 2°15 | 2°25 | 7°41 | 2°R19 | 3° 7 | 23°16 | 9°27 | M 9 |
| T 10 | 11 11 32 | 19°42'41 | 4926 | 24°52 | 8°59 | 10°11 | 26°47 | 25°57 | 2°D15 | 2°27 | 7°40 | 2°19 | 3° 4 | 23°22 | 9°22 | T 10 |
| W11 | 11 15 28 | 20°42'27 | 18°40 | 26°15 | 9°33 | 10°57 | 26°53 | 26° 4 | 2°15 | 2°29 | 7°39 | 2°18 | 3° 1 | 23°29 | 9°18 | W11 |
| T 12 | 11 19 25 | 21°42'10 | 2Ω 52 | 27°39 | 10° 9 | 11°42 | 26°59 | 26°11 | 2°15 | 2°31 | 7°38 | 2°17 | 2°58 | 23°36 | 9°13 | T 12 |
| F 13 | 11 23 21 | 22°41'51 | 16°58 | 29° 5 | 10°46 | 12°28 | 27° 5 | 26°17 | 2°15 | 2°34 | 7°37 | 2°16 | 2°55 | 23°43 | 9° 8 | F 13 |
| S 14 | 11 27 18 | 23°41'29 | 0 m 54 | 0 ∺ 33 | 11°25 | 13°13 | 27°11 | 26°24 | 2°15 | 2°36 | 7°36 | 2°14 | 2°51 | 23°49 | 9° 4 | S 14 |
| S 15 | 11 31 14 | 24°41'06 | 14°38 | 2° 1 | 12° 4 | 13°58 | 27°16 | 26°31 | 2°15 | 2°38 | 7°35 | 2°14 | 2°48 | 23°56 | 8°59 | S 15 |
| M16 | 11 35 11 | 25°40'40 | 28° 7 | 3°32 | 12°45 | 14°43 | 27°22 | 26°38 | 2°16 | 2°40 | 7°34 | 2°D13 | 2°45 | 24° 3 | 8°55 | M16 |
| T 17 | 11 39 7 | 26°40'12 | 11 ≏ 18 | 5° 3 | 13°26 | 15°28 | 27°27 | 26°44 | 2°16 | 2°43 | 7°33 | 2°14 | 2°42 | 24° 9 | 8°50 | T 17 |
| W18 | 11 43 4 | 27°39'43 | 24°12 | 6°36 | 14° 9 | 16°14 | 27°32 | 26°51 | 2°16 | 2°45 | 7°33 | 2°14 | 2°39 | 24°16 | 8°46 | W18 |
| T 19 | 11 47 0 | 28°39'11 | 6 M .49 | 8°10 | 14°53 | 16°59 | 27°37 | 26°57 | 2°17 | 2°47 | 7°32 | 2°14 | 2°35 | 24°23 | 8°41 | T 19 |
| F 20 | 11 50 57 | 29°38'38 | 19°10 | 9°46 | 15°37 | 17°44 | 27°42 | 27° 4 | 2°17 | 2°49 | 7°31 | 2°15 | 2°32 | 24°30 | 8°37 | F 20 |
| S 21 | 11 54 54 | 0 Ƴ 38′02 | 1 √ 18 | 11°23 | 16°23 | 18°29 | 27°46 | 27°10 | 2°18 | 2°52 | 7°30 | 2°15 | 2°29 | 24°36 | 8°33 | S 21 |
| S 22 | 11 58 50 | 1°37'25 | 13°17 | 13° 1 | 17°10 | 19°14 | 27°51 | 27°17 | 2°19 | 2°54 | 7°30 | 2°15 | 2°26 | 24°43 | 8°29 | S 22 |
| M23 | 12 2 47 | 2°36'47 | 25°11 | 14°41 | 17°57 | 19°58 | 27°55 | 27°23 | 2°19 | 2°56 | 7°29 | 2°15 | 2°23 | 24°50 | 8°24 | M23 |
| T 24 | 12 6 43 | 3°36'06 | 7 궁 5 | 16°22 | 18°45 | 20°43 | 27°59 | 27°29 | 2°20 | 2°58 | 7°28 | 2°15 | 2°20 | 24°56 | 8°20 | T 24 |
| W25 | 12 10 40 | 4°35'24 | 19° 2 | 18° 4 | 19°34 | 21°28 | 28° 3 | 27°36 | 2°21 | 3° 1 | 7°27 | 2°15 | 2°16 | 25° 3 | 8°16 | W25 |
| T 26 | 12 14 36 | 5°34'40 | 1≈ 8 | 19°48 | 20°24 | 22°13 | 28° 7 | 27°42 | 2°21 | 3° 3 | 7°27 | 2°15 | 2°13 | 25°10 | 8°12 | T 26 |
| F 27 | 12 18 33 | 6°33'54 | 13°27 | 21°33 | 21°14 | 22°58 | 28°10 | 27°48 | 2°22 | 3° 5 | 7°26 | 2°16 | 2°10 | 25°17 | 8° 8 | F 27 |
| S 28 | 12 22 29 | 7°33'06 | 26° 2 | 23°19 | 22° 5 | 23°42 | 28°14 | 27°54 | 2°23 | 3° 8 | 7°26 | 2°16 | 2° 7 | 25°23 | 8° 5 | S 28 |
| S 29 | 12 26 26 | 8°32'16 | 8 ∺ 56 | 25° 7 | 22°57 | 24°27 | 28°17 | 28° 0 | 2°24 | 3°10 | 7°25 | 2°17 | 2° 4 | 25°30 | 8° 1 | S 29 |
| M30 | 12 30 23 | 9°31'24 | 22°10 | 26°56 | 23°50 | 25°11 | 28°20 | 28° 6 | 2°25 | 3°12 | 7°24 | 2°17 | 2° 0 | 25°37 | 7°57 | M30 |
| T 31 | 12 34 19 | 10 Y 30'30 | 5 Ƴ 44 | 28 米 47 | 24≈43 | 25 Y 56 | 28 × 23 | 28 ≈ 12 | 29526 | 3 Υ 14 | 7Ω 24 | 2°R17 | 1 ≙ 57 | 25 ∡ 44 | 7 M 54 | T 31 |

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| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| Ħ | Р | ß | v | Ç | ę, | Day |
|------|----------|-------------------|-----------------|---------------|----------------|----------------|-----------------|---------------|-------|---------------|----------------|---------------|---------------|----------------|---------------|------|
| W 1 | 12 38 16 | 11 Y 29'35 | 19 Y 37 | 0 Υ 39 | 25≈36 | 26 Y 40 | 28 × 126 | 28≈18 | 29527 | 3 Υ17 | 7°R23 | 2°R17 | 1 ≏ 54 | 25 ₹ 50 | 7°R50 | W 1 |
| T 2 | 12 42 12 | 12°28'37 | 3 8 44 | 2°33 | 26°31 | 27°25 | 28°28 | 28°24 | 2°29 | 3°19 | $7\Omega_{23}$ | 2 ≏ 16 | 1°51 | 25°57 | 7 M 47 | T 2 |
| F 3 | 12 46 9 | 13°27'37 | 18° 3 | 4°28 | 27°25 | 28° 9 | 28°30 | 28°30 | 2°30 | 3°21 | 7°23 | 2°15 | 1°48 | 26° 4 | 7°43 | F 3 |
| S 4 | 12 50 5 | 14°26'35 | 2 Ⅱ 27 | 6°24 | 28°21 | 28°53 | 28°33 | 28°36 | 2°31 | 3°23 | 7°22 | 2°13 | 1°45 | 26°10 | 7°40 | S 4 |
| S 5 | 12 54 2 | 15°25'31 | 16°52 | 8°22 | 29°16 | 29°38 | 28°34 | 28°42 | 2°33 | 3°26 | 7°22 | 2°12 | 1°41 | 26°17 | 7°37 | S 5 |
| M 6 | 12 57 58 | 16°24'24 | 19914 | 10°21 | 0 ∺ 13 | 0822 | 28°36 | 28°47 | 2°34 | 3°28 | 7°21 | 2°11 | 1°38 | 26°24 | 7°34 | M 6 |
| T 7 | 13 1 55 | 17°23'15 | 15°28 | 12°21 | 1° 9 | 1° 6 | 28°38 | 28°53 | 2°35 | 3°30 | 7°21 | 2°D10 | 1°35 | 26°31 | 7°31 | T 7 |
| W 8 | 13 5 52 | 18°22'04 | 29°33 | 14°23 | 2° 7 | 1°50 | 28°39 | 28°58 | 2°37 | 3°32 | 7°21 | 2°11 | 1°32 | 26°37 | 7°28 | W 8 |
| T 9 | 13 9 48 | 19°20'51 | $13\Omega_{27}$ | 16°26 | 3° 4 | 2°34 | 28°40 | 29° 4 | 2°38 | 3°34 | 7°20 | 2°12 | 1°29 | 26°44 | 7°25 | T 9 |
| F 10 | 13 13 45 | 20°19'35 | 27° 9 | 18°30 | 4° 2 | 3°18 | 28°41 | 29° 9 | 2°40 | 3°37 | 7°20 | 2°13 | 1°26 | 26°51 | 7°22 | F 10 |
| S 11 | 13 17 41 | 21°18'17 | 10 m 39 | 20°35 | 5° 1 | 4° 2 | 28°42 | 29°15 | 2°42 | 3°39 | 7°20 | 2°14 | 1°22 | 26°58 | 7°20 | S 11 |
| S 12 | 13 21 38 | 22°16'56 | 23°56 | 22°41 | 6° 0 | 4°46 | 28°43 | 29°20 | 2°43 | 3°41 | 7°20 | 2°15 | 1°19 | 27° 4 | 7°17 | S 12 |
| M13 | 13 25 34 | 23°15'34 | 7요 0 | 24°48 | 6°59 | 5°30 | 28°43 | 29°25 | 2°45 | 3°43 | 7°20 | 2°R15 | 1°16 | 27°11 | 7°15 | M13 |
| T 14 | 13 29 31 | 24°14'09 | 19°52 | 26°55 | 7°58 | 6°14 | 28°44 | 29°30 | 2°47 | 3°45 | 7°19 | 2°14 | 1°13 | 27°18 | 7°12 | T 14 |
| W15 | 13 33 27 | 25°12'43 | 2 M .31 | 29° 2 | 8°58 | 6°57 | 28°R44 | 29°36 | 2°48 | 3°47 | 7°19 | 2°12 | 1°10 | 27°24 | 7°10 | W15 |
| T 16 | 13 37 24 | 26°11'15 | 14°57 | 1810 | 9°59 | 7°41 | 28°44 | 29°41 | 2°50 | 3°50 | 7°19 | 2° 9 | 1° 6 | 27°31 | 7° 8 | T 16 |
| F 17 | 13 41 20 | 27° 9'45 | 27°12 | 3°17 | 10°59 | 8°25 | 28°43 | 29°46 | 2°52 | 3°52 | 7°19 | 2° 5 | 1° 3 | 27°38 | 7° 6 | F 17 |
| S 18 | 13 45 17 | 28° 8'13 | 9 ,7 18 | 5°24 | 12° 0 | 9° 8 | 28°43 | 29°51 | 2°54 | 3°54 | 7°19 | 2° 1 | 1° 0 | 27°45 | 7° 4 | S 18 |
| S 19 | 13 49 14 | 29° 6'39 | 21°16 | 7°30 | 13° 2 | 9°52 | 28°42 | 29°55 | 2°56 | 3°56 | 7°D19 | 1°56 | 0°57 | 27°51 | 7° 2 | S 19 |
| M20 | 13 53 10 | 0 8 5'04 | 3 ට 10 | 9°35 | 14° 3 | 10°35 | 28°41 | 0 ∺ 0 | 2°58 | 3°58 | 7°19 | 1°53 | 0°54 | 27°58 | 7° 1 | M20 |
| T 21 | 13 57 7 | 1° 3'27 | 15° 3 | 11°38 | 15° 5 | 11°19 | 28°40 | 0° 5 | 3° 0 | 4° 0 | 7°19 | 1°50 | 0°51 | 28° 5 | 6°59 | T 21 |
| W22 | 14 1 3 | 2° 1'49 | 26°59 | 13°40 | 16° 7 | 12° 2 | 28°39 | 0° 9 | 3° 2 | 4° 2 | 7°19 | 1°D49 | 0°47 | 28°11 | 6°57 | W22 |
| T 23 | 14 5 0 | 3° 0'09 | 9≈ 3 | 15°39 | 17°10 | 12°46 | 28°38 | 0°14 | 3° 5 | 4° 4 | 7°19 | 1°49 | 0°44 | 28°18 | 6°56 | T 23 |
| F 24 | 14 8 56 | 3°58'27 | 21°20 | 17°37 | 18°12 | 13°29 | 28°36 | 0°19 | 3° 7 | 4° 6 | 7°19 | 1°50 | 0°41 | 28°25 | 6°55 | F 24 |
| S 25 | 14 12 53 | 4°56'44 | 3 ∺ 54 | 19°31 | 19°15 | 14°12 | 28°34 | 0°23 | 3° 9 | 4° 8 | 7°19 | 1°52 | 0°38 | 28°32 | 6°54 | S 25 |
| S 26 | 14 16 49 | 5°55'00 | 16°50 | 21°23 | 20°18 | 14°55 | 28°32 | 0°27 | 3°11 | 4°10 | 7°20 | 1°53 | 0°35 | 28°38 | 6°53 | S 26 |
| M27 | 14 20 46 | 6°53'13 | 0 Υ 10 | 23°12 | 21°22 | 15°39 | 28°30 | 0°32 | 3°14 | 4°12 | 7°20 | 1°R54 | 0°31 | 28°45 | 6°52 | M27 |
| T 28 | 14 24 43 | 7°51'26 | 13°55 | 24°57 | 22°26 | 16°22 | 28°28 | 0°36 | 3°16 | 4°14 | 7°20 | 1°54 | 0°28 | 28°52 | 6°51 | T 28 |
| W29 | 14 28 39 | 8°49'36 | 28° 5 | 26°39 | 23°29 | 17° 5 | 28°25 | 0°40 | 3°18 | 4°16 | 7°20 | 1°51 | 0°25 | 28°59 | 6°50 | W29 |
| T 30 | 14 32 36 | 9 8 47'45 | 12 8 35 | 28818 | 24) 34 | 17 8 48 | 28 × 23 | 0 ∺ 44 | 39921 | 4 Υ 18 | $7\Omega_{21}$ | 1 ≏ 47 | 0 ჲ 22 | 29 × 5 | 6 m 50 | T 30 |

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|--------------|----------------------|--------------------|------------------------|-----------------|----------------|----------------|-----------------------------|----------------|--------------|---------------|---------------|----------------|----------------|----------------|-----------------|--------------|
| F 1 | 14 36 32 | 10845'52 | 27 8 20 | 29 8 53 | 25) 38 | 18 8 31 | 28°R20 | 0) €48 | 3923 | 4 Υ 20 | 7 Ω 21 | 1°R42 | 0 ჲ 19 | 29 х 12 | 6°R49 | F 1 |
| S 2 | 14 40 29 | 11°43'58 | 12 Ⅱ 12 | 1 Ⅱ 24 | 26°42 | 19°14 | 28 × 17 | 0°52 | 3°26 | 4°22 | 7°21 | 1 ≏ 36 | 0°16 | 29°19 | 6 m 49 | S 2 |
| S 3 | 14 44 25 | 12°42'02 | 27° 2 | 2°51 | 27°47 | 19°56 | 28°14 | 0°55 | 3°28 | 4°24 | 7°22 | 1°30 | 0°12 | 29°25 | 6°48 | S 3 |
| M 4 | 14 48 22 | 13°40'04 | 119543 | 4°14 | 28°52 | 20°39 | 28°10 | 0°59 | 3°31 | 4°26 | 7°22 | 1°26 | 0° 9 | 29°32 | 6°48 | M 4 |
| T 5 | 14 52 18 | 14°38'04 | 26° 9 | 5°33 | 29°57 | 21°22 | 28° 7 | 1° 3 | 3°34 | 4°28 | 7°22 | 1°22 | 0° 6 | 29°39 | 6°D48 | T 5 |
| W 6 | 14 56 15 | 15°36'02 | 10 Ω 17 | 6°49 | 1 Υ 2 | 22° 5 | 28° 3 | 1° 6 | 3°36 | 4°29 | 7°23 | 1°D21 | 0° 3 | 29°46 | 6°48 | W 6 |
| T 7 | 15 0 12 | 16°33'58 | 24° 5 | 8° 0 | 2° 8 | 22°47 | 27°59 | 1°10 | 3°39 | 4°31 | 7°23 | 1°21 | 29 m 59 | 29°52 | 6°49 | T 7 |
| F 8 | 15 4 8 | 17°31'53 | 7 m 35 | 9° 6 | 3°13 | 23°30 | 27°55 | 1°13 | 3°42 | 4°33 | 7°24 | 1°22 | 29°57 | 2 <u>9</u> °59 | 6°49 | F 8 |
| S 9 | 15 8 5 | 18°29'45 | 20°47 | 10° 9 | 4°19 | 24°13 | 27°51 | 1°16 | 3°44 | 4°35 | 7°24 | 1°23 | 29°53 | 0 පි | 6°49 | S 9 |
| S 10 | 15 12 1 | 19°27'36 | 3 ≏ 44 | 11° 7 | 5°25 | 24°55 | 27°46 | 1°20 | 3°47 | 4°37 | 7°25 | 1°R24 | 29°50 | 0°12 | 6°50 | S 10 |
| M11 | 15 15 58 | 20°25'25 | 16°28 | 12° 1 | 6°31 | 25°37 | 27°42 | 1°23 | 3°50 | 4°38 | 7°25 | 1°22 | 29°47 | 0°19 | 6°51 | M11 |
| T 12 | 15 19 54 | 21°23'12 | 29° 0 | 12°50 | 7°37 | 26°20 | 27°37 | 1°26 | 3°53 | 4°40 | 7°26 | 1°19 | 29°44 | 0°26 | 6°51 | T 12 |
| W13 | 15 23 51 | 22°20'58 | 11 M 23 | 13°35 | 8°43 | 27° 2 | 27°32 | 1°29 | 3°56 | 4°42 | 7°27 | 1°14 | 29°41 | 0°33 | 6°52 | W13 |
| T 14 | 15 27 47 | 23°18'43 | 23°37 | 14°15 | 9°50 | 27°45 | 27°27 | 1°31 | 3°59 | 4°43 | 7°27 | 1° 6 | 29°37 | 0°39 | 6°53 | T 14 |
| F 15 | 15 31 44 | 24°16'26 | 5 × 743 | 14°51 | 10°57 | 28°27 | 27°22 | 1°34 | 4° 2 | 4°45 | 7°28 | 0°57 | 29°34 | 0°46 | 6°54 | F 15 |
| S 16 | 15 35 41 | 25°14'08 | 17°43 | 15°22 | 12° 3 | 29° 9 | 27°17 | 1°37 | 4° 5 | 4°47 | 7°29 | 0°46 | 29°31 | 0°53 | 6°56 | S 16 |
| S 17 | 15 39 37 | 26°11'48 | 29°38 | 15°48 | 13°10 | 29°51 | 27°11 | 1°39 | 4° 8 | 4°48 | 7°29 | 0°36 | 29°28 | 1° 0 | 6°57 | S 17 |
| M18 | 15 43 34 | 27° 9'28 | 11 ろ 31 | 16° 9 | 14°17 | 0Д33 | 27° 6 | 1°42 | 4°11 | 4°50 | 7°30 | 0°27 | 29°25 | 1° 6 | 6°58 | M18 |
| T 19 | 15 47 30 | 28° 7'06 | 23°23 | 16°26 | 15°24 | 1°15 | 27° 0 | 1°44 | 4°14 | 4°51 | 7°31 | 0°20 | 29°22 | 1°13 | 7° 0 | T 19 |
| W20 | 15 51 27 | 29° 4'43 | 5≈18 | 16°37 | 16°32 | 1°57 | 26°54 | 1°47 | 4°17 | 4°53 | 7°32 | 0°15 | 29°18 | 1°20 | 7° 2 | W20 |
| T 21 | 15 55 23 | 0 Ⅱ 2'20 | 17°21 | 16°44 | 17°39 | 2°39 | 26°48 | 1°49 | 4°20 | 4°54 | 7°33 | 0°12 | 29°15 | 1°26 | 7° 4 7° 5 | T 21 |
| F 22 S 23 | 15 59 20 | 0°59'55 1°57'29 | 29°35 12) 6 | 16°R47 16°44 | 18°47 19°54 | 3°21 4° 3 | 26°42 | 1°51 1°53 | 4°23 4°26 | 4°56 4°57 | 7°33 7°34 | 0°D11 0°11 | 29°12 29° 9 | 1°33 1°40 | 7° 5 7° 7 | F 22 S 23 |
| | 16 3 16 | | | - | | | 26°36 | | | | | - | | - | | |
| S 24 | 16 7 13 | 2°55'03 | 24°58 | 16°38 | 21° 2 | 4°45 | 26°29 | 1°55 | 4°29 | 4°59 | 7°35 | 0°R12 | 29° 6 | 1°47 | 7°10 | S 24 |
| M25 | 16 11 10 | 3°52'35 | 8 Υ 16 | 16°27 | 22°10 | 5°27 | 26°23 | 1°57 | 4°33 | 5° 0 | 7°36 | 0°12 | 29° 3 | 1°53 | 7°12 | M25 |
| T 26 | 16 15 6 | 4°50'07 | 22° 2 | 16°11 | 23°18 | 6° 8 | 26°16 | 1°58 | 4°36 | 5° 1 | 7°37 | 0°10 | 28°59 | 2° 0 | 7°14 | T 26 |
| W27 | 16 19 3 | 5°47'38 | 6817 | 15°53 | 24°26 | 6°50 | 26°10 | 2° 0 | 4°39 | 5° 3 | 7°38 | 0° 6 | 28°56 | 2° 7 | 7°17 | W27 |
| T 28 F 29 | 16 22 59 16 26 56 | 6°45'08 7°42'37 | 20°57 5 Ⅲ 57 | 15°30 15° 5 | 25°34 26°42 | 7°32 8°13 | 26° 3 25°56 | 2° 1 2° 3 | 4°42 4°46 | 5° 4 5° 5 | 7°39 7°40 | 29 m 59 | 28°53 28°50 | 2°14 2°20 | 7°19 7°22 | T 28 F 29 |
| S 30 | 16 26 56 | 8°40'06 | 5Д5/ 21°8 | 15° 5 14°37 | 26°42 27°51 | 8°55 | 25°56 25°49 | 2° 3 | 4°46 4°49 | 5° 6 | 7°40 7°41 | 29°50 29°41 | 28°50 28°47 | 2°20 2°27 | 7°22 | F 29 S 30 |
| | | | _ | | | | | | - | | | - | | • | | |
| S 31 | 16 34 49 | 9 Ⅱ 37'33 | 69319 | 14耳 7 | 28 Y 59 | 9耳36 | 25 × ⁷ 42 | 2 ∺ 5 | 4952 | 5 Υ 8 | 7 Ω 42 | 29 m 31 | 28 M 43 | 2 ප 34 | 7 m) 28 | S 31 |

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Greg. Calendar

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| M 1 | 16 38 45 | 10 Ⅲ 34'59 | 219920 | 13°R35 | 9 X 8 | 10 I I18 | 25°R35 | 2 ∺ 7 | 4956 | 5 Υ 9 | 7 Ω 43 | 29°R22 | 28 M)40 | 2 ප් 40 | 7 m 31 | M 1 |
| T 2 | 16 42 42 | 11°32'24 | 6 Ω 2 | 13 II 2 | 1°16 | 10°59 | 25 × 28 | 2° 8 | 4°59 | 5°10 | 7°44 | 29 Mp 16 | 28°37 | 2°47 | 7°34 | T 2 |
| W 3 T 4 | 16 46 39 16 50 35 | 12°29'48 13°27'11 | 20°21 | 12°28 11°55 | 2°25 3°34 | 11°41 12°22 | 25°21 25°13 | 2° 9 2° 9 | 5° 3 5° 6 | 5°11 5°12 | 7°45 7°46 | 29°12 29°11 | 28°34 28°31 | 2°54 3° 1 | 7°37 7°40 | W 3 T 4 |
| F 5 | 16 54 32 | 13°27'11 14°24'32 | 4 Mp 13 17°41 | 11°33 | 4°43 | 12°22 13° 3 | 25° 13 | 2°10 | 5° 9 | 5°12 | 7°48 | 29°D10 | 28°28 | 3° 7 | 7°44 | T 4 F 5 |
| S 6 | 16 58 28 | 15°21'53 | 0 <u>₽</u> 47 | 10°50 | 5°52 | 13°44 | 24°59 | 2°11 | 5°13 | 5°14 | 7°49 | 29°R10 | 28°24 | 3°14 | 7°47 | S 6 |
| S 7 | 17 2 25 | 16°19'12 | 13°33 | 10°20 | 7° 1 | 14°26 | 24°51 | 2°11 | 5°16 | 5°15 | 7°50 | 29°10 | 28°21 | 3°21 | 7°51 | S 7 |
| M 8 | 17 621 | 17°16'31 | 26° 4 | 9°53 | 8°10 | 15° 7 | 24°44 | 2°12 | 5°20 | 5°16 | 7°51 | 29° 7 | 28°18 | 3°27 | 7°55 | M 8 |
| T 9 | 17 10 18 | 18°13'48 | 8M24 | 9°27 | 9°19 | 15°48 | 24°36 | 2°12 | 5°23 | 5°17 | 7°52 | 29° 2 | 28°15 | 3°34 | 7°58 | T 9 |
| W10 T 11 | 17 14 14 17 18 11 | 19°11'05 20° 8'21 | 20°34 2 √ 37 | 9° 5 8°47 | 10°28 11°38 | 16°29 17°10 | 24°28 24°21 | 2°12 2°13 | 5°27 5°30 | 5°18 5°19 | 7°54 7°55 | 28°54 28°44 | 28°12 28° 9 | 3°41 3°48 | 8° 2 8° 6 | W10 T 11 |
| F 12 | 17 22 8 | 20° 5'37 | 14°36 | 8°32 | 11°38 12°47 | 17°51 | 24°13 | 2°R13 | 5°34 | 5°20 | 7°56 | 28°31 | 28° 5 | 3°54 | 8°10 | F 12 |
| S 13 | 17 26 4 | 22° 2'52 | 26°31 | 8°21 | 13°57 | 18°32 | 24° 6 | 2°13 | 5°37 | 5°21 | 7°58 | 28°17 | 28° 2 | 4° 1 | 8°15 | S 13 |
| S 14 | 17 30 1 | 23° 0'06 | 8 궁 24 | 8°15 | 15° 6 | 19°13 | 23°58 | 2°13 | 5°41 | 5°22 | 7°59 | 28° 4 | 27°59 | 4° 8 | 8°19 | S 14 |
| M15 | 17 33 57 | 23°57'20 | 20°16 | 8°D13 | 16°16 | 19°53 | 23°50 | 2°12 | 5°44 | 5°23 | 8° 0 | 27°51 | 27°56 | 4°15 | 8°23 | M15 |
| T 16 | 17 37 54 | 24°54'33 | 2≈10 | 8°16 | 17°26 | 20°34 | 23°43 | 2°12 | 5°48 | 5°23 | 8° 2 | 27°41 | 27°53 | 4°21 | 8°28 | T 16 |
| W17 | 17 41 50 | 25°51'47 | 14° 7 | 8°23 | 18°35 19°45 | 21°15 | 23°35 | 2°12 | 5°52 | 5°24 | 8° 3 8° 4 | 27°33 27°28 | 27°49 | 4°28 | 8°33 8°37 | W17 |
| T 18 F 19 | 17 45 47 17 49 43 | 26°49'00 27°46'13 | 26°10 8 ₩ 25 | 8°35 8°51 | 19°45 20°55 | 21°56 22°36 | 23°27 23°20 | 2°11 2°10 | 5°55 5°59 | 5°25 5°25 | 8° 4 8° 6 | 27°26 | 27°46 27°43 | 4°35 4°41 | 8°42 | T 18 F 19 |
| S 20 | 17 53 40 | 28°43'25 | 20°54 | 9°13 | 20° 5 | 23°17 | 23°12 | 2°10 | 6° 2 | 5°26 | 8° 7 | 27°25 | 27°40 | 4°48 | 8°47 | S 20 |
| S 21 | 17 57 37 | 29°40'38 | 3 Υ43 | 9°39 | 23°15 | 23°57 | 23° 4 | 2° 9 | 6° 6 | 5°27 | 8° 9 | 27°25 | 27°37 | 4°55 | 8°52 | S 21 |
| M22 | 18 1 33 | 0937'51 | 16°56 | 10° 9 | 24°25 | 24°38 | 22°57 | 2° 8 | 6°10 | 5°27 | 8°10 | 27°25 | 27°34 | 5° 2 | 8°57 | M22 |
| T 23 | 18 5 30 | 1°35'04 | 0836 | 10°45 | 25°36 | 25°19 | 22°49 | 2° 7 | 6°13 | 5°28 | 8°12 | 27°22 | 27°30 | 5° 8 | 9° 2 | T 23 |
| W24 T 25 | 18 9 26 18 13 23 | 2°32'16 3°29'29 | 14°45 29°22 | 11°24 12° 9 | 26°46 27°56 | 25°59 26°39 | 22°42 22°34 | 2° 6 2° 5 | 6°17 6°20 | 5°28 5°29 | 8°13 8°15 | 27°18 27°11 | 27°27 27°24 | 5°15 5°22 | 9° 7 9°13 | W24 T 25 |
| F 26 | 18 13 23 | 4°26'42 | 14 ∏ 22 | 12° 9 | 27°36 29° 7 | 26°39 27°20 | 22°34 22°27 | 2° 3 | 6°24 | 5°29 | 8°16 | 27° 11 | 27°24 27°21 | 5°22 | 9°13 | F 26 |
| S 27 | 18 21 16 | 5°23'56 | 29°38 | 13°51 | 0 Ⅱ 17 | 28° 0 | 22°20 | 2° 2 | 6°28 | 5°29 | 8°18 | 26°51 | 27°18 | 5°35 | 9°23 | S 27 |
| S 28 | 18 25 12 | 6°21'09 | 14957 | 14°48 | 1°28 | 28°40 | 22°12 | 2° 0 | 6°31 | 5°30 | 8°19 | 26°41 | 27°15 | 5°42 | 9°29 | S 28 |
| M29 | 18 29 9 | 7°18'22 | 0Ω 8 | 15°50 | 2°38 | 29°21 | 22° 5 | 1°59 | 6°35 | 5°30 | 8°21 | 26°32 | 27°11 | 5°49 | 9°35 | M29 |
| T 30 | 18 33 6 | 8915'34 | 15 Ω 2 | 16耳56 | 3 Ⅱ 49 | 09 1 | 21 ~ 58 | 1 米 57 | 6 9 39 | 5 Υ 30 | 8 Ω 22 | 26 m 24 | 27 Mg 8 | 5 궁 55 | 9 m /40 | T 30 |

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JULY 1699 GC 00:00 UT

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|------|----------|------------------|----------------|-----------------|---------------|--------|-----------------|---------------|-------|---------------|---------------|----------------|----------|---------------|----------------|------|
| W 1 | 18 37 2 | 99512'47 | 29€32 | 18 I I 6 | 4 Ⅱ 59 | 09541 | 21°R51 | 1°R55 | 69542 | 5 Υ 31 | 8 Ω 24 | 26°R20 | 27 Mp 5 | 6 ට 2 | 9 m /46 | W 1 |
| T 2 | 18 40 59 | 10° 9'59 | 13 M 33 | 19°20 | 6°10 | 1°21 | 21 ~ 144 | 1) 54 | 6°46 | 5°31 | 8°26 | 26 M 18 | 27° 2 | 6° 9 | 9°52 | T 2 |
| F 3 | 18 44 55 | 11° 7'11 | 27° 7 | 20°39 | 7°21 | 2° 1 | 21°37 | 1°52 | 6°49 | 5°31 | 8°27 | 26°D17 | 26°59 | 6°16 | 9°58 | F 3 |
| S 4 | 18 48 52 | 12° 4'23 | 10 ≏ 14 | 22° 1 | 8°32 | 2°41 | 21°30 | 1°50 | 6°53 | 5°31 | 8°29 | 26°R17 | 26°55 | 6°22 | 10° 4 | S 4 |
| S 5 | 18 52 48 | 13° 1'35 | 22°59 | 23°27 | 9°43 | 3°21 | 21°24 | 1°47 | 6°57 | 5°31 | 8°31 | 26°17 | 26°52 | 6°29 | 10°10 | S 5 |
| M 6 | 18 56 45 | 13°58'46 | 5 M 26 | 24°57 | 10°54 | 4° 1 | 21°17 | 1°45 | 7° 0 | 5°31 | 8°32 | 26°15 | 26°49 | 6°36 | 10°16 | M 6 |
| T 7 | 19 041 | 14°55'58 | 17°39 | 26°31 | 12° 5 | 4°41 | 21°11 | 1°43 | 7° 4 | 5°32 | 8°34 | 26°11 | 26°46 | 6°42 | 10°23 | T 7 |
| W 8 | 19 4 38 | 15°53'10 | 29°43 | 28° 9 | 13°16 | 5°21 | 21° 4 | 1°41 | 7° 7 | 5°32 | 8°36 | 26° 4 | 26°43 | 6°49 | 10°29 | W 8 |
| T 9 | 19 8 35 | 16°50'21 | 11 ~ 40 | 29°50 | 14°27 | 6° 1 | 20°58 | 1°38 | 7°11 | 5°R32 | 8°37 | 25°55 | 26°40 | 6°56 | 10°35 | T 9 |
| F 10 | 19 12 31 | 17°47'33 | 23°34 | 1934 | 15°38 | 6°41 | 20°52 | 1°36 | 7°15 | 5°32 | 8°39 | 25°44 | 26°36 | 7° 3 | 10°42 | F 10 |
| S 11 | 19 16 28 | 18°44'46 | 5 る 26 | 3°22 | 16°49 | 7°20 | 20°46 | 1°33 | 7°18 | 5°31 | 8°41 | 25°32 | 26°33 | 7° 9 | 10°48 | S 11 |
| S 12 | 19 20 24 | 19°41'58 | 17°19 | 5°13 | 18° 0 | 8° 0 | 20°40 | 1°30 | 7°22 | 5°31 | 8°42 | 25°20 | 26°30 | 7°16 | 10°55 | S 12 |
| M13 | 19 24 21 | 20°39'11 | 29°14 | 7° 7 | 19°12 | 8°40 | 20°34 | 1°27 | 7°25 | 5°31 | 8°44 | 25° 9 | 26°27 | 7°23 | 11° 2 | M13 |
| T 14 | 19 28 17 | 21°36'24 | 11≈12 | 9° 3 | 20°23 | 9°20 | 20°29 | 1°25 | 7°29 | 5°31 | 8°46 | 24°59 | 26°24 | 7°30 | 11°8 | T 14 |
| W15 | 19 32 14 | 22°33'38 | 23°16 | 11° 2 | 21°35 | 9°59 | 20°23 | 1°22 | 7°32 | 5°31 | 8°47 | 24°53 | 26°21 | 7°36 | 11°15 | W15 |
| T 16 | 19 36 10 | 23°30'53 | 5 ∺ 26 | 13° 3 | 22°46 | 10°39 | 20°18 | 1°19 | 7°36 | 5°31 | 8°49 | 24°48 | 26°17 | 7°43 | 11°22 | T 16 |
| F 17 | 19 40 7 | 24°28'08 | 17°47 | 15° 6 | 23°58 | 11°18 | 20°12 | 1°16 | 7°39 | 5°30 | 8°51 | 24°47 | 26°14 | 7°50 | 11°29 | F 17 |
| S 18 | 19 44 4 | 25°25'24 | 0 Υ 21 | 17°10 | 25° 9 | 11°58 | 20° 7 | 1°12 | 7°43 | 5°30 | 8°53 | 24°D46 | 26°11 | 7°56 | 11°36 | S 18 |
| S 19 | 19 48 0 | 26°22'40 | 13°11 | 19°16 | 26°21 | 12°37 | 20° 2 | 1° 9 | 7°46 | 5°30 | 8°54 | 24°47 | 26° 8 | 8° 3 | 11°43 | S 19 |
| M20 | 19 51 57 | 27°19'58 | 26°22 | 21°22 | 27°33 | 13°17 | 19°58 | 1° 6 | 7°50 | 5°29 | 8°56 | 24°R48 | 26° 5 | 8°10 | 11°50 | M20 |
| T 21 | 19 55 53 | 28°17'17 | 9 8 57 | 23°29 | 28°44 | 13°56 | 19°53 | 1° 2 | 7°53 | 5°29 | 8°58 | 24°47 | 26° 1 | 8°17 | 11°57 | T 21 |
| W22 | 19 59 50 | 29°14'36 | 23°57 | 25°36 | 29°56 | 14°36 | 19°49 | 0°59 | 7°57 | 5°29 | 9° 0 | 24°45 | 25°58 | 8°23 | 12° 5 | W22 |
| T 23 | 20 3 46 | 0Ω 11'57 | 8 Ⅱ 22 | 27°43 | 195 8 | 15°15 | 19°44 | 0°56 | 8° 0 | 5°28 | 9° 1 | 24°40 | 25°55 | 8°30 | 12°12 | T 23 |
| F 24 | 20 7 43 | 1° 9'19 | 23°10 | 29°49 | 2°20 | 15°54 | 19°40 | 0°52 | 8° 4 | 5°28 | 9° 3 | 24°34 | 25°52 | 8°37 | 12°19 | F 24 |
| S 25 | 20 11 39 | 2° 6'42 | 8914 | 1 Ω 55 | 3°32 | 16°33 | 19°36 | 0°48 | 8° 7 | 5°27 | 9° 5 | 24°26 | 25°49 | 8°43 | 12°27 | S 25 |
| S 26 | 20 15 36 | 3° 4'05 | 23°24 | 4° 1 | 4°44 | 17°13 | 19°32 | 0°45 | 8°10 | 5°27 | 9° 7 | 24°19 | 25°46 | 8°50 | 12°34 | S 26 |
| M27 | 20 19 33 | 4° 1'30 | 8 Ω 32 | 6° 5 | 5°56 | 17°52 | 19°29 | 0°41 | 8°14 | 5°26 | 9° 9 | 24°12 | 25°42 | 8°57 | 12°42 | M27 |
| T 28 | 20 23 29 | 4°58'55 | 23°26 | 8° 8 | 7° 8 | 18°31 | 19°25 | 0°37 | 8°17 | 5°25 | 9°10 | 24° 7 | 25°39 | 9° 4 | 12°49 | T 28 |
| W29 | 20 27 26 | 5°56'21 | 7 m 59 | 10°10 | 8°21 | 19°10 | 19°22 | 0°33 | 8°20 | 5°25 | 9°12 | 24° 4 | 25°36 | 9°10 | 12°57 | W29 |
| T 30 | 20 31 22 | 6°53'48 | 22° 7 | 12°11 | 9°33 | 19°49 | 19°19 | 0°29 | 8°24 | 5°24 | 9°14 | 24°D 2 | 25°33 | 9°17 | 13° 4 | T 30 |
| F 31 | 20 35 19 | 7 Ω 51'15 | 5 ≏ 46 | 14 Ω 11 | 109545 | 209528 | 19 .7 16 | 0 ∺ 25 | 8927 | 5 Y 23 | 9 Ω 16 | 24 Mg 3 | 25 Mp 30 | 9 云 24 | 13 M 12 | F 31 |

Delta T = 14.46 sec Greg. Calendar

AUGUST 1699 GC 00:00 UT

| Day | Sid.t | 0 |) | φ | · | ð | 4 | ħ | ¥ | ¥ | 2 | ß | Ω | ţ | , K | Day |
|------|----------|------------------|----------------|---------------|----------------|----------------|-----------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|------|
| S 1 | 20 39 15 | 8 Ω 48'44 | 18 ≏ 59 | 16 Ω 9 | 11957 | 2195 7 | 19°R13 | 0°R21 | 8230 | 5°R23 | 9 Ω 18 | 24 Mp 4 | 25 Mp 26 | 9 ට 30 | 13 m 20 | S 1 |
| S 2 | 20 43 12 | 9°46'13 | 1 M 47 | 18° 5 | 13°10 | 21°46 | 19 才 10 | 0 ∺ 17 | 8°34 | 5 Ƴ 22 | 9°19 | 24° 5 | 25°23 | 9°37 | 13°28 | S 2 |
| M 3 | 20 47 8 | 10°43'42 | 14°16 | 20° 0 | 14°22 | 22°25 | 19°8 | 0°13 | 8°37 | 5°21 | 9°21 | 24°R 5 | 25°20 | 9°44 | 13°36 | M 3 |
| T 4 | 20 51 5 | 11°41'13 | 26°29 | 21°54 | 15°35 | 23° 4 | 19° 6 | 0° 9 | 8°40 | 5°20 | 9°23 | 24° 4 | 25°17 | 9°51 | 13°43 | T 4 |
| W 5 | 20 55 2 | 12°38'44 | 8 ₹ 31 | 23°46 | 16°47 | 23°43 | 19° 4 | 0° 5 | 8°43 | 5°20 | 9°25 | 24° 1 | 25°14 | 9°57 | 13°51 | W 5 |
| T 6 | 20 58 58 | 13°36'17 | 20°26 | 25°37 | 18° 0 | 24°22 | 19° 2 | 0° 1 | 8°46 | 5°19 | 9°27 | 23°56 | 25°11 | 10° 4 | 13°59 | T 6 |
| F 7 | 21 2 55 | 14°33'50 | 2 ට 19 | 27°26 | 19°12 | 25° 1 | 19° 0 | 29≈56 | 8°49 | 5°18 | 9°28 | 23°50 | 25° 7 | 10°11 | 14° 7 | F 7 |
| S 8 | 21 6 51 | 15°31'24 | 14°11 | 29°13 | 20°25 | 25°40 | 18°59 | 29°52 | 8°52 | 5°17 | 9°30 | 23°44 | 25° 4 | 10°18 | 14°15 | S 8 |
| S 9 | 21 10 48 | 16°29'00 | 26° 6 | 0 m 59 | 21°38 | 26°18 | 18°57 | 29°48 | 8°55 | 5°16 | 9°32 | 23°37 | 25° 1 | 10°24 | 14°24 | S 9 |
| M10 | 21 14 44 | 17°26'36 | 8≈ 7 | 2°44 | 22°51 | 26°57 | 18°56 | 29°43 | 8°59 | 5°15 | 9°34 | 23°30 | 24°58 | 10°31 | 14°32 | M10 |
| T 11 | 21 18 41 | 18°24'14 | 20°13 | 4°27 | 24° 3 | 27°36 | 18°55 | 29°39 | 9° 2 | 5°14 | 9°36 | 23°25 | 24°55 | 10°38 | 14°40 | T 11 |
| W12 | 21 22 37 | 19°21'53 | 2 ∺ 28 | 6° 9 | 25°16 | 28°14 | 18°55 | 29°35 | 9° 4 | 5°13 | 9°37 | 23°22 | 24°52 | 10°44 | 14°48 | W12 |
| T 13 | 21 26 34 | 20°19'33 | 14°51 | 7°49 | 26°29 | 28°53 | 18°54 | 29°30 | 9° 7 | 5°12 | 9°39 | 23°20 | 24°48 | 10°51 | 14°56 | T 13 |
| F 14 | 21 30 31 | 21°17'15 | 27°26 | 9°27 | 27°42 | 29°32 | 18°54 | 29°26 | 9°10 | 5°11 | 9°41 | 23°D20 | 24°45 | 10°58 | 15° 5 | F 14 |
| S 15 | 21 34 27 | 22°14'58 | 10 Y 12 | 11° 5 | 28°55 | 0Ω10 | 18°53 | 29°21 | 9°13 | 5°10 | 9°43 | 23°21 | 24°42 | 11° 5 | 15°13 | S 15 |
| S 16 | 21 38 24 | 23°12'43 | 23°13 | 12°40 | 0 Ω 8 | 0°49 | 18°D53 | 29°17 | 9°16 | 5° 9 | 9°44 | 23°22 | 24°39 | 11°11 | 15°21 | S 16 |
| M17 | 21 42 20 | 24°10'29 | 6 8 31 | 14°15 | 1°21 | 1°27 | 18°54 | 29°12 | 9°19 | 5° 8 | 9°46 | 23°24 | 24°36 | 11°18 | 15°30 | M17 |
| T 18 | 21 46 17 | 25° 8'18 | 20° 6 | 15°48 | 2°35 | 2° 6 | 18°54 | 29° 8 | 9°22 | 5° 6 | 9°48 | 23°R25 | 24°32 | 11°25 | 15°38 | T 18 |
| W19 | 21 50 13 | 26° 6'08 | 4 Ⅱ 1 | 17°19 | 3°48 | 2°44 | 18°55 | 29° 3 | 9°24 | 5° 5 | 9°50 | 23°25 | 24°29 | 11°31 | 15°46 | W19 |
| T 20 | 21 54 10 | 27° 4'00 | 18°14 | 18°50 | 5° 1 | 3°23 | 18°55 | 28°59 | 9°27 | 5° 4 | 9°51 | 23°23 | 24°26 | 11°38 | 15°55 | T 20 |
| F 21 | 21 58 6 | 28° 1'53 | 29544 | 20°18 | 6°14 | 4° 1 | 18°56 | 28°54 | 9°30 | 5° 3 | 9°53 | 23°21 | 24°23 | 11°45 | 16° 3 | F 21 |
| S 22 | 22 2 3 | 28°59'49 | 17°27 | 21°46 | 7°28 | 4°39 | 18°57 | 28°50 | 9°33 | 5° 1 | 9°55 | 23°18 | 24°20 | 11°52 | 16°12 | S 22 |
| S 23 | 22 6 0 | 29°57'46 | 2 Ω 16 | 23°11 | 8°41 | 5°18 | 18°59 | 28°45 | 9°35 | 5° 0 | 9°56 | 23°15 | 24°17 | 11°58 | 16°20 | S 23 |
| M24 | 22 9 56 | 0 m 55'45 | 17° 4 | 24°36 | 9°55 | 5°56 | 19° 0 | 28°40 | 9°38 | 4°59 | 9°58 | 23°12 | 24°13 | 12° 5 | 16°29 | M24 |
| T 25 | 22 13 53 | 1°53'46 | 1 m 44 | 25°59 | 11° 8 | 6°34 | 19° 2 | 28°36 | 9°40 | 4°58 | 10° 0 | 23°10 | 24°10 | 12°12 | 16°37 | T 25 |
| W26 | 22 17 49 | 2°51'48 | 16° 9 | 27°20 | 12°22 | 7°13 | 19° 4 | 28°31 | 9°43 | 4°56 | 10° 2 | 23° 9 | 24° 7 | 12°18 | 16°46 | W26 |
| T 27 | 22 21 46 | 3°49'52 | 0 ჲ 12 | 28°40 | 13°35 | 7°51 | 19° 6 | 28°27 | 9°45 | 4°55 | 10° 3 | 23°D 9 | 24° 4 | 12°25 | 16°55 | T 27 |
| F 28 | 22 25 42 | 4°47'57 | 13°52 | 29°58 | 14°49 | 8°29 | 19° 8 | 28°22 | 9°48 | 4°54 | 10° 5 | 23° 9 | 24° 1 | 12°32 | 17° 3 | F 28 |
| S 29 | 22 29 39 | 5°46'03 | 27° 8 | 1 ≏ 14 | 16° 3 | 9° 7 | 19°10 | 28°18 | 9°50 | 4°52 | 10° 7 | 23°11 | 23°58 | 12°39 | 17°12 | S 29 |
| S 30 | 22 33 35 | 6°44'12 | 10 M 0 | 2°29 | 17°16 | 9°45 | 19°13 | 28°13 | 9°52 | 4°51 | 10° 8 | 23°12 | 23°54 | 12°45 | 17°21 | S 30 |
| M31 | 22 37 32 | 7 m 42'21 | 22 M 32 | 3 ≏ 42 | 18 Ω 30 | 10 Ω 23 | 19 ,7 16 | 28≈ 9 | 9 9 55 | 4 Υ49 | 10 Ω 10 | 23 m 13 | 23 m 51 | 12 る 52 | 17 m 29 | M31 |

Delta T = 14.43 sec

SEPTEMBER 1699 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | P | ♂ | 4 | ħ |)Å(| ¥ | Р | N. | v | ţ | Q K | Day |
|--------------|----------------------|----------------------|------------------------|----------------|-----------------------|----------------|-----------------|----------------|----------------|--------------|----------------|------------------|----------------|----------------|-----------------|--------------|
| T 1 | 22 41 29 | 8 Mp 40'33 | 4 ₹ 48 | 4 ₾ 53 | 19 Ω 44 | 11 Q 1 | 19 ,7 19 | 28°R 5 | 9957 | 4°R48 | 10Ω11 | 23°R14 | 23 Mp 48 | 12る59 | 17 m)38 | T 1 |
| W 2 | 22 45 25 | 9°38'45 | 16°51 | 6° 3 | 20°58 | 11°39 | 19°22 | 28≈ 0 | 9°59 | 4 Υ46 | 10°13 | 23 m) 14 | 23°45 | 13° 5 | 17°47 | W 2 |
| T 3 | 22 49 22 | 10°36'59 | 28°47 | 7°10 | 22°12 | 12°17 | 19°25 | 27°56 | 10° 1 | 4°45 | 10°15 | 23°13 | 23°42 | 13°12 | 17°55 | T 3 |
| F 4 | 22 53 18 | 11°35'15 | 10 궁 39 | 8°15 | 23°26 | 12°55 | 19°29 | 27°51 | 10° 4 | 4°43 | 10°16 | 23°12 | 23°38 | 13°19 | 18° 4 | F 4 |
| S 5 | 22 57 15 | 12°33'33 | 22°33 | 9°17 | 24°40 | 13°33 | 19°32 | 27°47 | 10° 6 | 4°42 | 10°18 | 23°10 | 23°35 | 13°26 | 18°13 | S 5 |
| S 6 | 23 1 11 | 13°31'51 | 4≈31 | 10°18 | 25°54 | 14°11 | 19°36 | 27°43 | 10° 8 | 4°40 | 10°19 | 23° 9 | 23°32 | 13°32 | 18°22 | S 6 |
| M 7 | 23 5 8 | 14°30'12 | 16°37 | 11°15 | 27° 8 | 14°49 | 19°40 | 27°39 | 10°10 | 4°39 | 10°21 | 23° 8 | 23°29 | 13°39 | 18°30 | M 7 |
| T 8 | 23 9 4 | 15°28'34 | 28°53 | 12°10 | 28°22 | 15°27 | 19°44 | 27°34 | 10°12 | 4°37 | 10°22 | 23° 7 | 23°26 | 13°46 | 18°39 | T 8 |
| W 9 | 23 13 1 | 16°26'58 | 11 米 21 | 13° 2 | 29°36 | 16° 5 | 19°49 | 27°30 | 10°14 | 4°36 | 10°24 | 23° 6 | 23°23 | 13°52 | 18°48 | W 9 |
| T 10 F 11 | 23 16 57 23 20 54 | 17°25'24 18°23'52 | 24° 2 6 Ƴ 57 | 13°51 14°36 | 0 m 50 2° 4 | 16°42 17°20 | 19°53 19°58 | 27°26 27°22 | 10°16 10°17 | 4°34 4°33 | 10°25 10°27 | 23°D 6 23° 6 | 23°19 23°16 | 13°59 14° 6 | 18°57 19°5 | T 10 F 11 |
| S 12 | 23 24 51 | 18 23 32 19°22'22 | 20° 5 | 14 30 15°18 | 3°18 | 17°58 | 20° 3 | 27°18 | 10 17 10°19 | 4°31 | 10°27 10°28 | 23° 6 | 23°13 | 14°13 | 19°14 | S 12 |
| | | | | | | | | | | _ | | | | _ | - | |
| S 13 | 23 28 47 | 20°20'53 | 3 8 27 | 15°56 | 4°32 | 18°35 | 20° 8 | 27°14 | 10°21 | 4°29 | 10°30 | 23° 7 | 23°10 | 14°19 | 19°23 | S 13 |
| M14 T 15 | 23 32 44 23 36 40 | 21°19'27 22°18'04 | 17° 1 0 ∏ 48 | 16°30 16°59 | 5°47 7° 1 | 19°13 19°51 | 20°13 20°18 | 27°10 27° 6 | 10°23 10°24 | 4°28 4°26 | 10°31 10°33 | 23° 7 23° 7 | 23° 7 23° 3 | 14°26 14°33 | 19°32 19°41 | M14 T 15 |
| W16 | 23 40 37 | 23°16'42 | 0Д48 14°46 | 16°39 17°23 | 8°15 | 20°28 | 20°18 20°24 | 27° 0 | 10°24 10°26 | 4°25 | 10°33 | 23° 7 | 23° 0 | 14°33 | 19°41 19°49 | W16 |
| T 17 | 23 44 33 | 24°15'23 | 28°54 | 17°42 | 9°30 | 20° 26 | 20°29 | 26°58 | 10°28 | 4°23 | 10°34 | 23° 7 | 22°57 | 14°46 | 19°58 | T 17 |
| F 18 | 23 48 30 | 25°14'06 | 139510 | 17°55 | 10°44 | 21°43 | 20°35 | 26°55 | 10°29 | 4°21 | 10°37 | 23° 7 | 22°54 | 14°53 | 20° 7 | F 18 |
| S 19 | 23 52 26 | 26°12'52 | 27°31 | 18° 2 | 11°59 | 22°21 | 20°41 | 26°51 | 10°31 | 4°20 | 10°38 | 23° 7 | 22°51 | 15° 0 | 20°16 | S 19 |
| S 20 | 23 56 23 | 27°11'39 | 11 Ω 54 | 18°R 3 | 13°13 | 22°58 | 20°47 | 26°47 | 10°32 | 4°18 | 10°40 | 23° 8 | 22°48 | 15° 6 | 20°24 | S 20 |
| M21 | 0 0 20 | 28°10'29 | 26°15 | 17°57 | 14°28 | 23°36 | 20°54 | 26°44 | 10°33 | 4°16 | 10°41 | 23° 8 | 22°44 | 15°13 | 20°33 | M21 |
| T 22 | 0 4 16 | 29° 9'21 | 10 m 30 | 17°44 | 15°42 | 24°13 | 21° 0 | 26°40 | 10°35 | 4°15 | 10°42 | 23° 9 | 22°41 | 15°20 | 20°42 | T 22 |
| W23 | 0 8 13 | 0 ♀ 8'15 | 24°33 | 17°24 | 16°57 | 24°51 | 21° 7 | 26°37 | 10°36 | 4°13 | 10°43 | 23°R 9 | 22°38 | 15°26 | 20°51 | W23 |
| T 24 | 0 12 9 | 1° 7'11 | 8 ≏ 21 | 16°56 | 18°12 | 25°28 | 21°13 | 26°34 | 10°37 | 4°11 | 10°45 | 23° 8 | 22°35 | 15°33 | 20°59 | T 24 |
| F 25 | 0 16 6 | 2° 6'09 | 21°52 | 16°21 | 19°26 | 26° 5 | 21°20 | 26°30 | 10°38 | 4°10 | 10°46 | 23° 8 | 22°32 | 15°40 | 21° 8 | F 25 |
| S 26 | 0 20 2 | 3° 5'09 | 5 M 3 | 15°38 | 20°41 | 26°43 | 21°27 | 26°27 | 10°39 | 4° 8 | 10°47 | 23° 7 | 22°29 | 15°47 | 21°17 | S 26 |
| S 27 | 0 23 59 | 4° 4'11 | 17°54 | 14°49 | 21°56 | 27°20 | 21°35 | 26°24 | 10°40 | 4° 6 | 10°48 | 23° 5 | 22°25 | 15°53 | 21°25 | S 27 |
| M28 | 0 27 55 | 5° 3'15 | 0 才 27 | 13°52 | 23°10 | 27°57 | 21°42 | 26°21 | 10°42 | 4° 5 | 10°50 | 23° 4 | 22°22 | 16° 0 | 21°34 | M28 |
| T 29 | 0 31 52 | 6° 2'21 | 12°44 | 12°51 | 24°25 | 28°34 | 21°49 | 26°18 | 10°42 | 4° 3 | 10°51 | 23° 2 | 22°19 | 16° 7 | 21°43 | T 29 |
| W30 | 0 35 49 | 7 ♀ 1'28 | 24 × 748 | 11 ≏ 45 | 25 Mp 40 | 29 Ω 12 | 21 × 757 | 26≈15 | 109543 | 4 Υ 1 | 10 Ω 52 | 23 Mp 1 | 22 Mp 16 | 16 ට 13 | 21 Mp 51 | W30 |

Delta T = 14.40 sec

Greg. Calendar

OCTOBER 1699 GC 00:00 UT

| Day | Sid.t | 0 | D | Ψ | Q- | ♂ | 4 | ħ | Å | ¥ | Р | ß | S | Ç | ķ | Day |
|------|---------|------------------|----------------|----------------|----------------|-----------------|-----------------|--------|--------|---------------|----------------|---------|----------------|----------------|---------|------|
| T 1 | 0 39 45 | 8 ჲ 0'37 | 6 ප 45 | 10°R36 | 26Mp 55 | 29 Ω 49 | 22 ×7 5 | 26°R12 | 109644 | 4°R 0 | 10 Ω 53 | 23°D 1 | 22 m 13 | 16 ට 20 | 22 Mp 0 | T 1 |
| F 2 | 0 43 42 | 8°59'49 | 18°37 | 9 ≏ 26 | 28°10 | 0 m /26 | 22°13 | 26≈10 | 10°45 | 3Υ 58 | 10°54 | 23 Mp 1 | 22° 9 | 16°27 | 22° 9 | F 2 |
| S 3 | 0 47 38 | 9°59'01 | 0≈31 | 8°16 | 29°25 | 1° 3 | 22°21 | 26° 7 | 10°46 | 3°56 | 10°55 | 23° 2 | 22° 6 | 16°33 | 22°17 | S 3 |
| S 4 | 0 51 35 | 10°58'16 | 12°30 | 7° 9 | 0 ₾ 39 | 1°40 | 22°29 | 26° 5 | 10°47 | 3°55 | 10°56 | 23° 3 | 22° 3 | 16°40 | 22°26 | S 4 |
| M 5 | 0 55 31 | 11°57'33 | 24°39 | 6° 6 | 1°54 | 2°17 | 22°37 | 26° 2 | 10°47 | 3°53 | 10°57 | 23° 5 | 22° 0 | 16°47 | 22°34 | M 5 |
| T 6 | 0 59 28 | 12°56'51 | 7 ∺ 2 | 5°10 | 3° 9 | 2°54 | 22°46 | 26° 0 | 10°48 | 3°51 | 10°58 | 23° 6 | 21°57 | 16°54 | 22°43 | T 6 |
| W 7 | 1 3 24 | 13°56'11 | 19°42 | 4°22 | 4°24 | 3°31 | 22°54 | 25°57 | 10°48 | 3°50 | 10°59 | 23°R 7 | 21°54 | 17° 0 | 22°51 | W 7 |
| T 8 | 1 721 | 14°55'33 | 2 Υ 39 | 3°42 | 5°39 | 4° 8 | 23° 3 | 25°55 | 10°49 | 3°48 | 11° 0 | 23° 7 | 21°50 | 17° 7 | 23° 0 | T 8 |
| F 9 | 1 11 17 | 15°54'57 | 15°56 | 3°13 | 6°54 | 4°45 | 23°12 | 25°53 | 10°49 | 3°46 | 11° 1 | 23° 5 | 21°47 | 17°14 | 23° 8 | F 9 |
| S 10 | 1 15 14 | 16°54'23 | 29°30 | 2°55 | 8° 9 | 5°21 | 23°21 | 25°51 | 10°50 | 3°45 | 11° 2 | 23° 3 | 21°44 | 17°20 | 23°16 | S 10 |
| S 11 | 1 19 11 | 17°53'52 | 13 8 19 | 2°D47 | 9°24 | 5°58 | 23°30 | 25°49 | 10°50 | 3°43 | 11° 3 | 22°59 | 21°41 | 17°27 | 23°25 | S 11 |
| M12 | 1 23 7 | 18°53'22 | 27°20 | 2°51 | 10°39 | 6°35 | 23°39 | 25°47 | 10°50 | 3°42 | 11° 4 | 22°56 | 21°38 | 17°34 | 23°33 | M12 |
| T 13 | 1 27 4 | 19°52'55 | 11 Ⅱ 29 | 3° 5 | 11°54 | 7°12 | 23°48 | 25°46 | 10°50 | 3°40 | 11° 5 | 22°52 | 21°34 | 17°41 | 23°41 | T 13 |
| W14 | 131 0 | 20°52'30 | 25°42 | 3°30 | 13° 9 | 7°49 | 23°57 | 25°44 | 10°51 | 3°38 | 11° 5 | 22°49 | 21°31 | 17°47 | 23°50 | W14 |
| T 15 | 1 34 57 | 21°52'08 | 9 9 57 | 4° 4 | 14°24 | 8°25 | 24° 7 | 25°42 | 10°51 | 3°37 | 11° 6 | 22°47 | 21°28 | 17°54 | 23°58 | T 15 |
| F 16 | 1 38 53 | 22°51'47 | 24° 9 | 4°48 | 15°40 | 9° 2 | 24°17 | 25°41 | 10°51 | 3°35 | 11° 7 | 22°D46 | 21°25 | 18° 1 | 24° 6 | F 16 |
| S 17 | 1 42 50 | 23°51'30 | 8 Ω 16 | 5°39 | 16°55 | 9°38 | 24°26 | 25°40 | 10°R51 | 3°34 | 11°8 | 22°47 | 21°22 | 18° 7 | 24°14 | S 17 |
| S 18 | 1 46 46 | 24°51'14 | 22°18 | 6°38 | 18°10 | 10°15 | 24°36 | 25°38 | 10°51 | 3°32 | 11°8 | 22°49 | 21°19 | 18°14 | 24°22 | S 18 |
| M19 | 1 50 43 | 25°51'00 | 6 m 13 | 7°43 | 19°25 | 10°52 | 24°46 | 25°37 | 10°51 | 3°31 | 11° 9 | 22°50 | 21°15 | 18°21 | 24°30 | M19 |
| T 20 | 1 54 40 | 26°50'49 | 20° 0 | 8°54 | 20°40 | 11°28 | 24°56 | 25°36 | 10°50 | 3°29 | 11°10 | 22°R51 | 21°12 | 18°28 | 24°38 | T 20 |
| W21 | 1 58 36 | 27°50'40 | 3 ≏ 36 | 10° 9 | 21°55 | 12° 5 | 25° 7 | 25°35 | 10°50 | 3°28 | 11°10 | 22°50 | 21° 9 | 18°34 | 24°46 | W21 |
| T 22 | 2 2 33 | 28°50'33 | 17° 2 | 11°29 | 23°11 | 12°41 | 25°17 | 25°34 | 10°50 | 3°26 | 11°11 | 22°48 | 21° 6 | 18°41 | 24°54 | T 22 |
| F 23 | 2 6 29 | 29°50'28 | 0 M J4 | 12°53 | 24°26 | 13°17 | 25°27 | 25°34 | 10°50 | 3°25 | 11°11 | 22°44 | 21° 3 | 18°48 | 25° 2 | F 23 |
| S 24 | 2 10 26 | 0ML50'25 | 13°12 | 14°19 | 25°41 | 13°54 | 25°38 | 25°33 | 10°49 | 3°23 | 11°12 | 22°38 | 21° 0 | 18°54 | 25°10 | S 24 |
| S 25 | 2 14 22 | 1°50'24 | 25°55 | 15°48 | 26°56 | 14°30 | 25°48 | 25°32 | 10°49 | 3°22 | 11°12 | 22°31 | 20°56 | 19° 1 | 25°18 | S 25 |
| M26 | 2 18 19 | 2°50'25 | 8 ₹ 23 | 17°19 | 28°12 | 15° 6 | 25°59 | 25°32 | 10°48 | 3°21 | 11°13 | 22°24 | 20°53 | 19°8 | 25°26 | M26 |
| T 27 | 2 22 15 | 3°50'27 | 20°38 | 18°52 | 29°27 | 15°43 | 26°10 | 25°32 | 10°48 | 3°19 | 11°13 | 22°17 | 20°50 | 19°14 | 25°33 | T 27 |
| W28 | 2 26 12 | 4°50'32 | 2 ප් 41 | 20°26 | 0 M .42 | 16°19 | 26°21 | 25°31 | 10°47 | 3°18 | 11°14 | 22°11 | 20°47 | 19°21 | 25°41 | W28 |
| T 29 | 2 30 9 | 5°50'38 | 14°36 | 22° 1 | 1°58 | 16°55 | 26°32 | 25°31 | 10°47 | 3°16 | 11°14 | 22° 6 | 20°44 | 19°28 | 25°48 | T 29 |
| F 30 | 2 34 5 | 6°50'45 | 26°27 | 23°37 | 3°13 | 17°31 | 26°43 | 25°D31 | 10°46 | 3°15 | 11°15 | 22° 4 | 20°40 | 19°35 | 25°56 | F 30 |
| S 31 | 2 38 2 | 7 M 50'54 | 8 ≈ 19 | 25 ≏ 14 | 4 M 28 | 18 M) 7 | 26 × 754 | 25≈31 | 109345 | 3 Υ 14 | 11 Ω 15 | 22°D 3 | 20 m 37 | 19 る 41 | 26M) 3 | S 31 |

Delta T = 14.37 sec

NOVEMBER 1699 GC 00:00 UT

| Day | Sid.t | 0 | D | ğ | Ŷ. | ♂ | 4 | ħ |)∤(| ¥ | Р | ß | Ω | ţ | ę k | Day |
|------|---------|-----------------|-----------------|----------------|----------------|----------------|----------------|-------|--------|---------------|----------------|---------|-----------------|----------------|----------------|------|
| S 1 | 2 41 58 | 8ML51'05 | 20≈16 | 26 ♀ 51 | 5 M .44 | 18 m 43 | 27 .7 5 | 25≈31 | 10°R44 | 3°R13 | 11 Ω 15 | 22 mg 4 | 20 m 34 | 19 る 48 | 26 m 11 | S 1 |
| M 2 | 2 45 55 | 9°51'17 | 2) (24 | 28°28 | 6°59 | 19°19 | 27°17 | 25°32 | 109544 | 3Υ 11 | 11°16 | 22° 5 | 20°31 | 19°55 | 26°18 | M 2 |
| T 3 | 2 49 51 | 10°51'30 | 14°48 | OM 6 | 8°14 | 19°55 | 27°28 | 25°32 | 10°43 | 3°10 | 11°16 | 22° 6 | 20°28 | 20° 1 | 26°26 | T 3 |
| W 4 | 2 53 48 | 11°51'46 | 27°32 | 1°43 | 9°30 | 20°31 | 27°40 | 25°33 | 10°42 | 3° 9 | 11°16 | 22°R 6 | 20°25 | 20° 8 | 26°33 | W 4 |
| T 5 | 2 57 44 | 12°52'02 | 10 Y 39 | 3°21 | 10°45 | 21° 7 | 27°51 | 25°33 | 10°41 | 3° 8 | 11°16 | 22° 5 | 20°21 | 20°15 | 26°40 | T 5 |
| F 6 | 3 1 41 | 13°52'21 | 24°11 | 4°58 | 12° 0 | 21°43 | 28° 3 | 25°34 | 10°40 | 3° 6 | 11°17 | 22° 1 | 20°18 | 20°22 | 26°47 | F 6 |
| S 7 | 3 5 38 | 14°52'41 | 8 8 6 | 6°36 | 13°16 | 22°18 | 28°15 | 25°35 | 10°39 | 3° 5 | 11°17 | 21°54 | 20°15 | 20°28 | 26°54 | S 7 |
| S 8 | 3 9 34 | 15°53'02 | 22°22 | 8°13 | 14°31 | 22°54 | 28°26 | 25°36 | 10°37 | 3° 4 | 11°17 | 21°46 | 20°12 | 20°35 | 27° 1 | S 8 |
| M 9 | 3 13 31 | 16°53'26 | 6 Ⅱ 53 | 9°50 | 15°46 | 23°30 | 28°38 | 25°37 | 10°36 | 3° 3 | 11°17 | 21°37 | 20° 9 | 20°42 | 27° 8 | M 9 |
| T 10 | 3 17 27 | 17°53'51 | 21°31 | 11°27 | 17° 2 | 24° 6 | 28°50 | 25°38 | 10°35 | 3° 2 | 11°17 | 21°28 | 20° 6 | 20°48 | 27°15 | T 10 |
| W11 | 3 21 24 | 18°54'18 | 69910 | 13° 4 | 18°17 | 24°41 | 29° 2 | 25°39 | 10°34 | 3° 1 | 11°17 | 21°20 | 20° 2 | 20°55 | 27°22 | W11 |
| T 12 | 3 25 20 | 19°54'47 | 20°42 | 14°40 | 19°32 | 25°17 | 29°15 | 25°40 | 10°32 | 3° 0 | 11°R17 | 21°15 | 19°59 | 21° 2 | 27°28 | T 12 |
| F 13 | 3 29 17 | 20°55'17 | 5 Ω 4 | 16°16 | 20°48 | 25°52 | 29°27 | 25°42 | 10°31 | 2°59 | 11°17 | 21°11 | 19°56 | 21° 8 | 27°35 | F 13 |
| S 14 | 3 33 13 | 21°55'50 | 19°11 | 17°52 | 22° 3 | 26°28 | 29°39 | 25°43 | 10°30 | 2°58 | 11°17 | 21°D10 | 19°53 | 21°15 | 27°42 | S 14 |
| S 15 | 3 37 10 | 22°56'24 | 3 Mp 4 | 19°28 | 23°19 | 27° 3 | 29°51 | 25°45 | 10°28 | 2°57 | 11°17 | 21°10 | 19°50 | 21°22 | 27°48 | S 15 |
| M16 | 3 41 7 | 23°57'00 | 16°43 | 21° 4 | 24°34 | 27°38 | 0중 4 | 25°47 | 10°27 | 2°56 | 11°17 | 21°R11 | 19°46 | 21°29 | 27°54 | M16 |
| T 17 | 3 45 3 | 24°57'38 | 0 ⊽ 8 | 22°39 | 25°50 | 28°14 | 0°16 | 25°48 | 10°25 | 2°55 | 11°17 | 21°11 | 19°43 | 21°35 | 28° 1 | T 17 |
| W18 | 3 49 0 | 25°58'18 | 13°20 | 24°14 | 27° 5 | 28°49 | 0°29 | 25°50 | 10°23 | 2°54 | 11°17 | 21° 9 | 19°40 | 21°42 | 28° 7 | W18 |
| T 19 | 3 52 56 | 26°58'59 | 26°22 | 25°49 | 28°20 | 29°24 | 0°41 | 25°52 | 10°22 | 2°53 | 11°16 | 21° 4 | 19°37 | 21°49 | 28°13 | T 19 |
| F 20 | 3 56 53 | 27°59'41 | 9 m .13 | 27°24 | 29°36 | 29°59 | 0°54 | 25°55 | 10°20 | 2°53 | 11°16 | 20°56 | 19°34 | 21°55 | 28°19 | F 20 |
| S 21 | 4 0 49 | 29° 0'26 | 21°53 | 28°59 | 0 ₹ 51 | 0 ჲ 34 | 1° 7 | 25°57 | 10°18 | 2°52 | 11°16 | 20°45 | 19°31 | 22° 2 | 28°25 | S 21 |
| S 22 | 4 4 46 | 0 才 1'11 | 4 ₹ 22 | 0 ∡ 133 | 2° 7 | 1° 9 | 1°20 | 25°59 | 10°17 | 2°51 | 11°16 | 20°33 | 19°27 | 22° 9 | 28°31 | S 22 |
| M23 | 4 8 42 | 1° 1'58 | 16°40 | 2° 8 | 3°22 | 1°44 | 1°33 | 26° 2 | 10°15 | 2°50 | 11°15 | 20°19 | 19°24 | 22°15 | 28°37 | M23 |
| T 24 | 4 12 39 | 2° 2'47 | 28°49 | 3°42 | 4°38 | 2°19 | 1°45 | 26° 4 | 10°13 | 2°50 | 11°15 | 20° 6 | 19°21 | 22°22 | 28°43 | T 24 |
| W25 | 4 16 36 | 3° 3'36 | 10 궁 48 | 5°16 | 5°53 | 2°54 | 1°58 | 26° 7 | 10°11 | 2°49 | 11°15 | 19°54 | 19°18 | 22°29 | 28°49 | W25 |
| T 26 | 4 20 32 | 4° 4'26 | 22°41 | 6°50 | 7° 9 | 3°29 | 2°11 | 26° 9 | 10° 9 | 2°49 | 11°14 | 19°44 | 19°15 | 22°36 | 28°54 | T 26 |
| F 27 | 4 24 29 | 5° 5'18 | 4≈30 | 8°24 | 8°24 | 4° 4 | 2°24 | 26°12 | 10° 7 | 2°48 | 11°14 | 19°38 | 19°12 | 22°42 | 29° 0 | F 27 |
| S 28 | 4 28 25 | 6° 6'10 | 16°19 | 9°58 | 9°39 | 4°38 | 2°38 | 26°15 | 10° 5 | 2°47 | 11°13 | 19°33 | 19° 8 | 22°49 | 29° 5 | S 28 |
| S 29 | 4 32 22 | 7° 7'03 | 28°13 | 11°32 | 10°55 | 5°13 | 2°51 | 26°18 | 10° 3 | 2°47 | 11°13 | 19°32 | 19° 5 | 22°56 | 29°10 | S 29 |
| M30 | 4 36 18 | 8 才 7'57 | 10 ∺ 17 | 13 ∡ 6 | 12 × 10 | 5 ≏ 48 | 3 4 | 26≈21 | 1099 1 | 2 Υ 46 | 11 Ω 13 | 19°D31 | 19 m , 2 | 23중 2 | 29 m 16 | M30 |

Delta T = 14.35 sec

Greg. Calendar

| DECEMBER 1699 GC | 00:00 UT |
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| DECEMBER 1099 GC | 00:00 |

| Day | Sid.t | 0 | D | ğ | · | ď | 4 | ħ |)Å(| Ħ | В | v | v | Ç | ę, | Day |
|--------------|--------------------|----------------------|-------------------------|-----------------|-----------------|----------------|---------------|----------------|--------------|---------------|----------------|-----------------|----------------|-----------------|----------------|--------------|
| T 1 | 4 40 15 | 9 ⊀ 8'52 | 22) 37 | 14 ×7 40 | 13 × 726 | 6 ₽ 22 | 3 ਰ 17 | 26≈24 | 9°R59 | 2°R46 | 11°R12 | 19°R32 | 18 m 59 | 23 궁 9 | 29 m 21 | T 1 |
| W 2 | 4 44 11 | 10° 9'47 | 5 Υ 18 | 16°14 | 14°41 | 6°57 | 3°30 | 26°28 | 9957 | 2 ℃ 45 | 11011 | 197031 | 18°56 | 23°16 | 29°26 | W 2 |
| T 3 F 4 | 4 48 8 4 52 5 | 11°10'43 12°11'40 | 18°24 1 8 59 | 17°48 19°21 | 15°57 17°12 | 7°31 8° 5 | 3°44 3°57 | 26°31 26°35 | 9°55 9°52 | 2°45 2°45 | 11°11 11°10 | 19°28 19°23 | 18°52 18°49 | 23°22 23°29 | 29°31 29°36 | T 3 F 4 |
| S 5 | 4 56 1 | 13°12'38 | 16° 3 | 20°55 | 18°28 | 8°39 | 4°11 | 26°38 | 9°50 | 2°44 | 11°10 | 19°15 | 18°46 | 23°36 | 29°40 | S 5 |
| S 6 | 4 59 58 | 14°13'37 | 0 Ⅱ 33 | 22°29 | 19°43 | 9°14 | 4°24 | 26°42 | 9°48 | 2°44 | 11° 9 | 19° 4 | 18°43 | 23°43 | 29°45 | S 6 |
| M 7 | 5 3 54 | 15°14'36 | 15°25 | 24° 3 | 20°58 | 9°48 | 4°38 | 26°46 | 9°46 | 2°44 | 11° 8 | 18°52 | 18°40 | 23°49 | 29°50 | M 7 |
| T 8 | 5 7 51 | 16°15'36 | 09528 | 25°37 | 22°14 | 10°22 | 4°51 | 26°49 | 9°43 | 2°44 | 11° 8 | 18°40 | 18°37 | 23°56 | 29°54 | T 8 |
| W 9 | 5 11 47 | 17°16'37 | 15°33 | 27°11 | 23°29 | 10°56 | 5° 5 | 26°53 | 9°41 | 2°44 | 11° 7 | 18°30 | 18°33 | 24° 3 | 29°58 | W 9 |
| T 10 | 5 15 44 | 18°17'39 | $0\Omega 30$ | 28°45 | 24°45 | 11°30 | 5°18 | 26°57 | 9°39 | 2°43 | 11° 6 | 18°21 | 18°30 | 24° 9 | 0 ₾ 3 | T 10 |
| F 11 | 5 19 40 | 19°18'42 | 15°12 | 0 궁 19 | 26° 0 | 12° 3 | 5°32 | 27° 1 | 9°36 | 2°43 | 11° 6 | 18°16 | 18°27 | 24°16 | 0° 7 | F 11 |
| S 12 | 5 23 37 | 20°19'46 | 29°32 | 1°53 | 27°16 | 12°37 | 5°45 | 27° 5 | 9°34 | 2°43 | 11° 5 | 18°14 | 18°24 | 24°23 | 0°11 | S 12 |
| S 13 | 5 27 34 | 21°20'51 | 13 M 30 | 3°27 | 28°31 | 13°11 | 5°59 | 27°10 | 9°32 | 2°43 | 11° 4 | 18°13 | 18°21 | 24°29 | 0°15 | S 13 |
| M14 | 5 31 30 | 22°21'56 | 27° 7 | 5° 0 | 29°46 | 13°44 | 6°13 | 27°14 | 9°29 | 2°D43 | 11° 3 | 18°13 | 18°18 | 24°36 | 0°19 | M14 |
| T 15 W16 | 5 35 27 5 39 23 | 23°23'03 24°24'10 | 10 ≙ 23 23°22 | 6°34 8° 7 | 1る 2 2°17 | 14°18 14°51 | 6°27 6°40 | 27°18 27°23 | 9°27 9°24 | 2°43 2°43 | 11° 2 11° 1 | 18°12 18° 9 | 18°14 18°11 | 24°43 24°50 | 0°22 0°26 | T 15 W16 |
| T 17 | 5 43 20 | 24 24 10 25°25'18 | 6M 7 | 9°40 | 3°33 | 14 31 15°25 | 6°54 | 27°27 | 9°24 | 2°43 | 1101 | 18° 4 | 18° 8 | 24°56 | 0°29 | T 17 |
| F 18 | 5 47 16 | 26°26'27 | 18°40 | 11°12 | 4°48 | 15°58 | 7° 8 | 27°32 | 9°19 | 2°43 | 11° 0 | 17°55 | 18° 5 | 25° 3 | 0°33 | F 18 |
| S 19 | 5 51 13 | 27°27'36 | 1 ₹ 3 | 12°44 | 6° 3 | 16°31 | 7°22 | 27°37 | 9°17 | 2°44 | 10°59 | 17°44 | 18° 2 | 25°10 | 0°36 | S 19 |
| S 20 | 5 55 9 | 28°28'46 | 13°18 | 14°16 | 7°19 | 17° 4 | 7°36 | 27°42 | 9°14 | 2°44 | 10°58 | 17°30 | 17°58 | 25°16 | 0°39 | S 20 |
| M21 | 5 59 6 | 29°29'57 | 25°25 | 15°46 | 8°34 | 17°37 | 7°49 | 27°47 | 9°12 | 2°44 | 10°57 | 17°16 | 17°55 | 25°23 | 0°42 | M21 |
| T 22 | 6 3 3 | 0 ට 31'07 | 7 云 25 | 17°16 | 9°50 | 18°10 | 8° 3 | 27°51 | 9° 9 | 2°44 | 10°56 | 17° 1 | 17°52 | 25°30 | 0°45 | T 22 |
| W23 | 6 6 59 | 1°32'18 | 19°19 | 18°44 | 11° 5 | 18°43 | 8°17 | 27°56 | 9° 7 | 2°45 | 10°55 | 16°48 | 17°49 | 25°36 | 0°48 | W23 |
| T 24 | 6 10 56 | 2°33'30 | 1 ≈ 10 | 20°10 | 12°21 | 19°16 | 8°31 | 28° 2 | 9° 4 9° 1 | 2°45 | 10°54 | 16°37 | 17°46 | 25°43 | 0°51 | T 24 |
| F 25 S 26 | 6 14 52 6 18 49 | 3°34'41 4°35'52 | 12°58 24°47 | 21°35 22°58 | 13°36 14°51 | 19°48 20°21 | 8°45 8°59 | 28° 7 28°12 | 9° 1 8°59 | 2°45 2°46 | 10°53 10°52 | 16°29 16°24 | 17°43 17°39 | 25°50 25°56 | 0°53 0°56 | F 25 S 26 |
| | | | | | | | | | | | | | | | | |
| S 27 M28 | 6 22 45 6 26 42 | 5°37'03 6°38'14 | 6 光 40 18°42 | 24°18 25°35 | 16° 7 17°22 | 20°53 21°25 | 9°13 9°27 | 28°17 28°23 | 8°56 8°54 | 2°46 2°47 | 10°50 10°49 | 16°22 16°D22 | 17°36 17°33 | 26° 3 26°10 | 0°58 1° 0 | S 27 M28 |
| T 29 | 6 30 38 | 7°39'24 | 0 Υ 58 | 25°33 26°48 | 18°37 | 21°58 | 9°27 9°41 | 28°28 | 8°51 | 2°47 | 10°49 10°48 | 16°22 | 17°33 | 26°10 26°17 | 1° 0 | T 29 |
| W30 | 6 34 35 | 8°40'35 | 13°33 | 27°57 | 19°53 | 22°30 | 9°55 | 28°34 | 8°48 | 2°48 | 10°47 | 16°R22 | 17°27 | 26°23 | 1° 4 | W30 |
| T 31 | 6 38 32 | 9 ප් 41'45 | 26 Y 33 | 29්ට 1 | 21 る 8 | 23 £ 2 | 10 ජී 9 | 28≈39 | 89546 | 2 Υ 48 | 10 Ω 46 | 16 m/21 | 17 m 23 | 26 පි 30 | 1₾ 6 | T 31 |

Delta T = 14.32 sec