

Astrodienst Ephemeris Tables for the year 2281

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 2281 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)∤(| ¥ | Р | n | Ω | ţ | ę, | Day |
|--|---|--|--|---|---|--|---|---|---|---|---|---|---|---|--|--|
| S 1 | 6 43 36 | 10 3 40'04 | 11837 | 18 -7 47 | 18°R45 | 1 ≏ 35 | 10중28 | 14 × 10 | 14°R41 | 24 Ω 49 | 17≈14 | 09549 | 09514 | 26項59 | 1°R39 | S 1 |
| S 2 | 6 47 32 | 11°41'11 | 25°24 | 19°31 | 18 ට 11 | 1°56 | 10°42 | 14°17 | 14 П 38 | 24°50 | 17°15 | 0°50 | 0°10 | 27° 6 | 1 II 37 | S 2 |
| M 3 | 6 51 29 | 12°42'18 | 9 II 0 | 20°20 | 17°36 | 2°17 | 10°56 | 14°23 | 14°36 | 24°51 | 17°17 | 0°51 | 0° 7 | 27°13 | 1°35 | M 3 |
| T 4 | 6 55 25 | 13°43'25 | 22°25 | 21°14 | 17° 0 | 2°37 | 11°10 | 14°30 | 14°34 | 24°52 | 17°18 | 0°52 | 0° 4 | 27°19 | 1°32 | T 4 |
| W 5 | 6 59 22 | 14°44'33 | 5 © 37 | 22°12 | 16°23 | 2°57 | 11°23 | 14°36 | 14°32 | 24°52 | 17°20 | 0°R52 | 0° 1 | 27°26 | 1°30 | W 5 |
| T 6 | 7 3 18 | 15°45'40 | 18°35 | 23°13 | 15°46 | 3°17 | 11°37 | 14°43 | 14°30 | 24°53 | 17°21 | 0°51 | 29 II 58 | 27°33 | 1°28 | T 6 |
| F 7 | 7 7 15 | 16°46'47 | 1 Ω 19 | 24°18 | 15°10 | 3°36 | 11°51 | 14°49 | 14°28 | 24°54 | 17°23 | 0°49 | 29°54 | 27°40 | 1°26 | F 7 |
| S 8 | 7 11 12 | 17°47'55 | 13°49 | 25°25 | 14°33 | 3°54 | 12° 5 | 14°56 | 14°26 | 24°54 | 17°25 | 0°47 | 29°51 | 27°46 | 1°24 | S 8 |
| S 9 M10 T 11 W12 T 13 F 14 S 15 | 7 15 8 7 19 5 7 23 1 7 26 58 7 30 54 7 34 51 7 38 47 | 18°49'02 19°50'10 20°51'18 21°52'26 22°53'33 23°54'41 24°55'50 | 26° 6 8 m 12 20°10 2 3 13°55 25°51 7 m 55 | 26°34 27°46 29° 0 0515 1°32 2°51 4°10 | 13°57 13°22 12°48 12°15 11°44 11°14 10°46 | 4°13 4°31 4°48 5° 5 5°22 5°38 5°54 | 12°19 12°32 12°46 13° 0 13°14 13°27 13°41 | 15° 2 15° 8 15°14 15°21 15°27 15°33 15°39 | 14°24 14°22 14°20 14°18 14°16 14°14 14°13 | 24°55 24°56 24°56 24°57 24°57 24°57 24°58 | 17°26 17°28 17°30 17°31 17°33 17°35 17°36 | 0°44 0°41 0°38 0°36 0°34 0°D34 0°35 | 29°48 29°45 29°42 29°39 29°35 29°32 29°29 | 27°53 28° 0 28° 6 28°13 28°20 28°27 28°33 | 1°22 1°20 1°18 1°16 1°15 1°13 | S 9 M10 T 11 W12 T 13 F 14 S 15 |
| S 16 M17 T 18 W19 T 20 F 21 S 22 | 7 42 44 7 46 41 7 50 37 7 54 34 7 58 30 8 2 27 8 6 23 | 25°56'58 26°58'06 27°59'14 29° 0'22 0≈ 1'29 1° 2'36 2° 3'43 | 20°13 2₹49 15°46 29°8 12₹53 27°2 11≈28 | 5°31 6°53 8°16 9°40 11° 5 12°31 13°57 | 10°20 9°57 9°35 9°16 8°59 8°44 8°32 | 6° 9 6°23 6°38 6°51 7° 4 7°17 7°29 | 13°55 14° 9 14°22 14°36 14°50 15° 3 15°17 | 15°45 15°51 15°57 16° 3 16° 8 16°14 16°20 | 14°11 14° 9 14° 8 14° 6 14° 4 14° 3 14° 1 | 24°58 24°58 24°59 24°59 24°59 24°59 25° 0 | 17°38 17°40 17°42 17°43 17°45 17°47 17°49 | 0°36 0°38 0°39 0°R40 0°40 0°38 | 29°26 29°23 29°20 29°16 29°13 29°10 29° 7 | 28°40 28°47 28°54 29° 0 29° 7 29°14 29°20 | 1°10 1° 8 1° 7 1° 5 1° 4 1° 3 1° 2 | S 16 M17 T 18 W19 T 20 F 21 S 22 |
| S 23 | 8 10 20 | 3° 4'49 | 26° 8 | 15°24 | 8°23 | 7°41 | 15°30 | 16°25 | 14° 0 | 25° 0 | 17°50 | 0°29 | 29° 4 | 29°27 | 1° 1 | S 23 |
| M24 | 8 14 17 | 4° 5'55 | 10\()53 | 16°52 | 8°16 | 7°52 | 15°44 | 16°31 | 13°59 | 25° 0 | 17°52 | 0°24 | 29° 0 | 29°34 | 0°59 | M24 |
| T 25 | 8 18 13 | 5° 6'59 | 25°35 | 18°21 | 8°11 | 8° 2 | 15°57 | 16°37 | 13°57 | 25° 0 | 17°54 | 0°19 | 28°57 | 29°41 | 0°59 | T 25 |
| W26 | 8 22 10 | 6° 8'03 | 10\()Y 8 | 19°50 | 8°D 9 | 8°12 | 16°11 | 16°42 | 13°56 | 25° 0 | 17°56 | 0°15 | 28°54 | 29°47 | 0°58 | W26 |
| T 27 | 8 26 6 | 7° 9'06 | 24°27 | 21°20 | 8° 9 | 8°21 | 16°24 | 16°47 | 13°55 | 25° 0 | 17°58 | 0°13 | 28°51 | 29°54 | 0°57 | T 27 |
| F 28 | 8 30 3 | 8°10'07 | 8\(\)31 | 22°50 | 8°12 | 8°30 | 16°38 | 16°53 | 13°54 | 25° 0 | 17°59 | 0°D12 | 28°48 | 0 <u>•</u> 1 | 0°56 | F 28 |
| S 29 | 8 33 59 | 9°11'08 | 22°17 | 24°21 | 8°17 | 8°38 | 16°51 | 16°58 | 13°52 | 25° 0 | 18° 1 | 0°13 | 28°45 | 0° 8 | 0°55 | S 29 |
| S 30 | 8 37 56 | 10°12'08 | 5 耳 46 | 25°53 | 8°24 | 8°45 | 17° 4 | 17° 3 | 13°51 | 24°59 | 18° 3 | 0°14 | 28°41 | 0°14 | 0°55 | S 30 |
| M31 | 8 41 52 | 11≈13'06 | 19 耳 0 | 27 る 26 | 8 ਰ 34 | 8 ≙ 52 | 17 る 18 | 17 ⁄ 8 | 13 Ⅱ 50 | 24 £ 59 | 18 ≈ 5 | 0 © 15 | 28 II 38 | 0 ჲ 21 | 0 ∏ 54 | M31 |

Delta T = 265.46 sec

FEBRUARY 2281 00:00 UT

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|------|----------|-------------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|--------|-------|---------------|----------------|------|
| T 1 | 8 45 49 | 12≈14'04 | 299 1 | 28 궁 59 | 8 궁 46 | 8 ≏ 58 | 17 る 31 | 17 × 13 | 13°R49 | 24°R59 | 18 ≈ 7 | 0°R16 | 28耳35 | 0 ჲ 28 | 0°R54 | T 1 |
| W 2 | 8 49 46 | 13°15'00 | 14°49 | 0≈33 | 9° 0 | 9° 3 | 17°44 | 17°18 | 13 Ⅱ 48 | 24 ₽ 59 | 18° 8 | 09915 | 28°32 | 0°34 | 0 Ⅲ 53 | W 2 |
| T 3 | 8 53 42 | 14°15'56 | 27°26 | 2° 7 | 9°16 | 9° 8 | 17°57 | 17°23 | 13°47 | 24°59 | 18°10 | 0°12 | 28°29 | 0°41 | 0°53 | T 3 |
| F 4 | 8 57 39 | 15°16'50 | 9 Ω 53 | 3°42 | 9°34 | 9°12 | 18°10 | 17°28 | 13°46 | 24°58 | 18°12 | 0° 6 | 28°26 | 0°48 | 0°53 | F 4 |
| S 5 | 9 1 35 | 16°17'43 | 22°11 | 5°18 | 9°54 | 9°16 | 18°23 | 17°33 | 13°46 | 24°58 | 18°14 | 29耳58 | 28°22 | 0°55 | 0°52 | S 5 |
| S 6 | 9 5 32 | 17°18'36 | 4Mp21 | 6°54 | 10°16 | 9°18 | 18°36 | 17°38 | 13°45 | 24°58 | 18°16 | 29°49 | 28°19 | 1° 1 | 0°52 | S 6 |
| M 7 | 9 9 28 | 18°19'27 | 16°23 | 8°32 | 10°40 | 9°20 | 18°49 | 17°42 | 13°44 | 24°57 | 18°18 | 29°40 | 28°16 | 1° 8 | 0°52 | M 7 |
| T 8 | 9 13 25 | 19°20'17 | 28°19 | 10° 9 | 11° 5 | 9°22 | 19° 2 | 17°47 | 13°44 | 24°57 | 18°19 | 29°30 | 28°13 | 1°15 | 0°D52 | T 8 |
| W 9 | 9 17 21 | 20°21'07 | 10 ≏ 11 | 11°48 | 11°33 | 9°R22 | 19°15 | 17°51 | 13°43 | 24°56 | 18°21 | 29°22 | 28°10 | 1°21 | 0°52 | W 9 |
| T 10 | 9 21 18 | 21°21'55 | 22° 2 | 13°27 | 12° 2 | 9°22 | 19°28 | 17°56 | 13°42 | 24°56 | 18°23 | 29°15 | 28° 6 | 1°28 | 0°52 | T 10 |
| F 11 | 9 25 14 | 22°22'42 | 3 M .56 | 15° 7 | 12°32 | 9°21 | 19°41 | 18° 0 | 13°42 | 24°55 | 18°25 | 29°11 | 28° 3 | 1°35 | 0°53 | F 11 |
| S 12 | 9 29 11 | 23°23'29 | 15°58 | 16°48 | 13° 4 | 9°19 | 19°53 | 18° 4 | 13°41 | 24°55 | 18°27 | 29° 9 | 28° 0 | 1°42 | 0°53 | S 12 |
| S 13 | 9 33 8 | 24°24'15 | 28°11 | 18°30 | 13°38 | 9°17 | 20° 6 | 18° 8 | 13°41 | 24°54 | 18°28 | 29°D 8 | 27°57 | 1°48 | 0°53 | S 13 |
| M14 | 9 37 4 | 25°24'59 | 10 ∡ 42 | 20°13 | 14°13 | 9°14 | 20°19 | 18°12 | 13°41 | 24°53 | 18°30 | 29° 9 | 27°54 | 1°55 | 0°54 | M14 |
| T 15 | 9 41 1 | 26°25'43 | 23°35 | 21°56 | 14°49 | 9°10 | 20°31 | 18°16 | 13°40 | 24°53 | 18°32 | 29°R10 | 27°51 | 2° 2 | 0°54 | T 15 |
| W16 | 9 44 57 | 27°26'26 | 6 පි 54 | 23°40 | 15°26 | 9° 5 | 20°44 | 18°20 | 13°40 | 24°52 | 18°34 | 29°10 | 27°47 | 2° 9 | 0°55 | W16 |
| T 17 | 9 48 54 | 28°27'08 | 20°41 | 25°25 | 16° 5 | 8°59 | 20°56 | 18°24 | 13°40 | 24°51 | 18°36 | 29° 8 | 27°44 | 2°15 | 0°55 | T 17 |
| F 18 | 9 52 50 | 29°27'48 | 4≈57 | 27°11 | 16°45 | 8°53 | 21° 9 | 18°28 | 13°40 | 24°51 | 18°38 | 29° 3 | 27°41 | 2°22 | 0°56 | F 18 |
| S 19 | 9 56 47 | 0 ¥ 28′27 | 19°38 | 28°57 | 17°26 | 8°46 | 21°21 | 18°32 | 13°40 | 24°50 | 18°39 | 28°56 | 27°38 | 2°29 | 0°57 | S 19 |
| S 20 | 10 0 43 | 1°29'05 | 4) €38 | 0) €45 | 18° 9 | 8°38 | 21°33 | 18°35 | 13°D40 | 24°49 | 18°41 | 28°47 | 27°35 | 2°35 | 0°58 | S 20 |
| M21 | 10 4 40 | 2°29'41 | 19°47 | 2°33 | 18°52 | 8°29 | 21°45 | 18°39 | 13°40 | 24°48 | 18°43 | 28°37 | 27°32 | 2°42 | 0°59 | M21 |
| T 22 | 10 8 37 | 3°30'15 | 4 Ƴ 55 | 4°22 | 19°36 | 8°19 | 21°57 | 18°42 | 13°40 | 24°47 | 18°45 | 28°27 | 27°28 | 2°49 | 1° 0 | T 22 |
| W23 | 10 12 33 | 4°30'48 | 19°52 | 6°12 | 20°21 | 8° 9 | 22° 9 | 18°46 | 13°40 | 24°46 | 18°47 | 28°19 | 27°25 | 2°56 | 1° 1 | W23 |
| T 24 | 10 16 30 | 5°31'19 | 4830 | 8° 3 | 21° 7 | 7°58 | 22°21 | 18°49 | 13°40 | 24°46 | 18°48 | 28°13 | 27°22 | 3° 2 | 1° 2 | T 24 |
| F 25 | 10 20 26 | 6°31'49 | 18°44 | 9°54 | 21°55 | 7°46 | 22°33 | 18°52 | 13°40 | 24°45 | 18°50 | 28° 9 | 27°19 | 3° 9 | 1° 3 | F 25 |
| S 26 | 10 24 23 | 7°32'16 | 2 Ⅱ 34 | 11°46 | 22°42 | 7°34 | 22°45 | 18°55 | 13°41 | 24°44 | 18°52 | 28°D 8 | 27°16 | 3°16 | 1° 4 | S 26 |
| S 27 | 10 28 19 | 8°32'42 | 16° 0 | 13°39 | 2 <u>3</u> °31 | 7°20 | 22°56 | 18°58 | 13°41 | 24°43 | 18°54 | 28° 8 | 27°12 | 3°23 | 1° 5 | S 27 |
| M28 | 10 32 16 | 9) €33'06 | 29Ⅱ 4 | 15 ¥ 32 | 24 ට 21 | 7 요 6 | 23중 8 | 19🖍 1 | 13 Ⅱ 41 | 24 ≏ 42 | 18 ≈ 55 | 28°R 8 | 27耳 9 | 3 ₾ 29 | 1 I 7 | M28 |

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|------|----------|-------------------|------------------|----------------|----------------|----------------|----------------|-----------------|-------|----------------|----------------|--------|-------|---------------|----------------|------|
| T 1 | 10 36 12 | 10) 33'28 | 11951 | 17) 25 | 25 궁 11 | 6°R51 | 23る20 | 19 × 7 4 | 13∏42 | 24°R41 | 18≈57 | 28°R 7 | 27耳 6 | 3 ჲ 36 | 1 I 8 | T 1 |
| W 2 | 10 40 9 | 11°33'47 | 24°24 | 19°19 | 26° 2 | 6 ₽ 36 | 23°31 | 19° 6 | 13°42 | 24 <u>₽</u> 40 | 18°59 | 28耳 5 | 27° 3 | 3°43 | 1°10 | W 2 |
| T 3 | 10 44 6 | 12°34'05 | 6 Ω 45 | 21°12 | 26°54 | 6°20 | 23°42 | 19° 9 | 13°43 | 24°38 | 19° 0 | 27°59 | 27° 0 | 3°49 | 1°11 | T 3 |
| F 4 | 10 48 2 | 13°34'22 | 18°58 | 23° 6 | 27°46 | 6° 3 | 23°54 | 19°11 | 13°44 | 24°37 | 19° 2 | 27°50 | 26°57 | 3°56 | 1°13 | F 4 |
| S 5 | 10 51 59 | 14°34'36 | 1 Mp 4 | 24°59 | 28°39 | 5°45 | 24° 5 | 19°14 | 13°44 | 24°36 | 19° 4 | 27°39 | 26°53 | 4° 3 | 1°15 | S 5 |
| S 6 | 10 55 55 | 15°34'48 | 13° 4 | 26°51 | 29°33 | 5°27 | 24°16 | 19°16 | 13°45 | 24°35 | 19° 5 | 27°25 | 26°50 | 4°10 | 1°16 | S 6 |
| M 7 | 10 59 52 | 16°34'59 | 25° 1 | 28°42 | 0≈27 | 5° 8 | 24°27 | 19°18 | 13°46 | 24°34 | 19° 7 | 27°11 | 26°47 | 4°16 | 1°18 | M 7 |
| T 8 | 11 3 48 | 17°35'07 | 6 ≏ 54 | 0 Υ 32 | 1°22 | 4°49 | 24°38 | 19°21 | 13°47 | 24°33 | 19° 9 | 26°57 | 26°44 | 4°23 | 1°20 | T 8 |
| W 9 | 11 7 45 | 18°35'15 | 18°46 | 2°20 | 2°17 | 4°29 | 24°49 | 19°23 | 13°47 | 24°31 | 19°10 | 26°44 | 26°41 | 4°30 | 1°22 | W 9 |
| T 10 | 11 11 41 | 19°35'20 | 0 M .38 | 4° 5 | 3°13 | 4° 9 | 25° 0 | 19°24 | 13°48 | 24°30 | 19°12 | 26°33 | 26°37 | 4°36 | 1°24 | T 10 |
| F 11 | 11 15 38 | 20°35'24 | 12°33 | 5°48 | 4°10 | 3°48 | 25°10 | 19°26 | 13°49 | 24°29 | 19°14 | 26°25 | 26°34 | 4°43 | 1°26 | F 11 |
| S 12 | 11 19 35 | 21°35'26 | 24°35 | 7°28 | 5° 7 | 3°27 | 25°21 | 19°28 | 13°50 | 24°27 | 19°15 | 26°20 | 26°31 | 4°50 | 1°28 | S 12 |
| S 13 | 11 23 31 | 22°35'27 | 6 ₮ 46 | 9° 4 | 6° 4 | 3° 5 | 25°31 | 19°30 | 13°51 | 24°26 | 19°17 | 26°18 | 26°28 | 4°57 | 1°31 | S 13 |
| M14 | 11 27 28 | 23°35'26 | 19°13 | 10°36 | 7° 2 | 2°43 | 25°41 | 19°31 | 13°53 | 24°25 | 19°18 | 26°17 | 26°25 | 5° 3 | 1°33 | M14 |
| T 15 | 11 31 24 | 24°35'23 | 2号 0 | 12° 2 | 8° 1 | 2°20 | 25°52 | 19°33 | 13°54 | 24°23 | 19°20 | 26°17 | 26°22 | 5°10 | 1°35 | T 15 |
| W16 | 11 35 21 | 25°35'19 | 15°12 | 13°24 | 8°59 | 1°58 | 26° 2 | 19°34 | 13°55 | 24°22 | 19°22 | 26°17 | 26°18 | 5°17 | 1°38 | W16 |
| T 17 | 11 39 17 | 26°35'13 | 28°52 | 14°39 | 9°59 | 1°35 | 26°12 | 19°35 | 13°56 | 24°21 | 19°23 | 26°14 | 26°15 | 5°24 | 1°40 | T 17 |
| F 18 | 11 43 14 | 27°35'06 | 13≈ 2 | 15°49 | 10°58 | 1°12 | 26°22 | 19°36 | 13°58 | 24°19 | 19°25 | 26° 9 | 26°12 | 5°30 | 1°43 | F 18 |
| S 19 | 11 47 10 | 28°34'57 | 27°40 | 16°51 | 11°58 | 0°48 | 26°32 | 19°38 | 13°59 | 24°18 | 19°26 | 26° 1 | 26° 9 | 5°37 | 1°45 | S 19 |
| S 20 | 11 51 7 | 29°34'46 | 12) (43 | 17°46 | 12°59 | 0°25 | 26°41 | 19°38 | 14° 0 | 24°16 | 19°28 | 25°51 | 26° 6 | 5°44 | 1°48 | S 20 |
| M21 | 11 55 4 | 0 Υ 34'33 | 28° 0 | 18°34 | 14° 0 | 0° 1 | 26°51 | 19°39 | 14° 2 | 24°15 | 19°29 | 25°40 | 26° 3 | 5°50 | 1°50 | M21 |
| T 22 | 11 59 0 | 1°34'18 | 13 Y 20 | 19°14 | 15° 1 | 29 m 37 | 27° 0 | 19°40 | 14° 3 | 24°13 | 19°30 | 25°29 | 25°59 | 5°57 | 1°53 | T 22 |
| W23 | 12 2 57 | 2°34'01 | 28°33 | 19°46 | 16° 2 | 29°14 | 27°10 | 19°41 | 14° 5 | 24°12 | 19°32 | 25°19 | 25°56 | 6° 4 | 1°56 | W23 |
| T 24 | 12 6 53 | 3°33'42 | 13828 | 20°10 | 17° 4 | 28°50 | 27°19 | 19°41 | 14° 7 | 24°10 | 19°33 | 25°11 | 25°53 | 6°11 | 1°59 | T 24 |
| F 25 | 12 10 50 | 4°33'21 | 27°57 | 20°26 | 18° 6 | 28°27 | 27°28 | 19°42 | 14° 8 | 24° 9 | 19°35 | 25° 7 | 25°50 | 6°17 | 2° 2 | F 25 |
| S 26 | 12 14 46 | 5°32'57 | 11 II 58 | 20°R33 | 19° 8 | 28° 4 | 27°37 | 19°42 | 14°10 | 24° 7 | 19°36 | 25° 4 | 25°47 | 6°24 | 2° 5 | S 26 |
| S 27 | 12 18 43 | 6°32'32 | 25°31 | 20°33 | 20°11 | 27°40 | 27°46 | 19°42 | 14°12 | 24° 6 | 19°37 | 25°D 4 | 25°43 | 6°31 | 2° 8 | S 27 |
| M28 | 12 22 39 | 7°32'04 | 8938 | 20°24 | 21°14 | 27°18 | 27°55 | 19°42 | 14°14 | 24° 4 | 19°39 | 25°R 4 | 25°40 | 6°37 | 2°11 | M28 |
| T 29 | 12 26 36 | 8°31'33 | 21°22 | 20° 9 | 22°17 | 26°55 | 28° 3 | 19°R42 | 14°15 | 24° 3 | 19°40 | 25° 3 | 25°37 | 6°44 | 2°14 | T 29 |
| W30 | 12 30 33 | 9°31'01 | 3050 | 19°46 | 23°20 | 26°33 | 28°12 | 19°42 | 14°17 | 24° 1 | 19°41 | 25° 1 | 25°34 | 6°51 | 2°17 | W30 |
| T 31 | 12 34 29 | 10 Y 30'26 | 16 Ω 4 | 19 Ƴ 17 | 24≈24 | 26Mp11 | 28 궁 20 | 19 × 742 | 14∏19 | 24 <u>₽</u> 0 | 19 ≈ 43 | 24∏56 | 25耳31 | 6 ≏ 58 | 2 II 20 | T 31 |

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| Day | Sid.t | 0 | D | ğ | φ | o ⁷ | 4 | ħ |)Å(| , | В | ₽. | v | Ç | Ŷ, | Day |
|------|----------|-------------------|-----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|-------|-----------------|-------|----------------|---------------|------|
| F 1 | 12 38 26 | 11 Y 29'49 | 28 N 8 | 18°R42 | 25≈28 | 25°R50 | 28 궁 28 | 19°R42 | 14∏21 | 23°R58 | 19≈44 | 24°R48 | 25Ⅲ28 | 7 ♀ 4 | 2П23 | F 1 |
| S 2 | 12 42 22 | 12°29'09 | 10 m) 6 | 18 Y 2 | 26°32 | 25 m 29 | 28°36 | 19 × 42 | 14°23 | 23 ≏ 56 | 19°45 | 24 II 38 | 25°24 | 7°11 | 2°27 | S 2 |
| S 3 | 12 46 19 | 13°28'28 | 22° 0 | 17°19 | 27°36 | 25° 8 | 28°44 | 19°41 | 14°25 | 23°55 | 19°46 | 24°26 | 25°21 | 7°18 | 2°30 | S 3 |
| M 4 | 12 50 15 | 14°27'44 | 3 ₾ 53 | 16°32 | 28°41 | 24°48 | 28°52 | 19°41 | 14°27 | 23°53 | 19°48 | 24°13 | 25°18 | 7°24 | 2°33 | M 4 |
| T 5 | 12 54 12 | 15°26'58 | 15°45 | 15°43 | 29°46 | 24°29 | 29° 0 | 19°40 | 14°30 | 23°52 | 19°49 | 23°59 | 25°15 | 7°31 | 2°37 | T 5 |
| W 6 | 12 58 8 | 16°26'10 | 27°39 | 14°53 | 0 ∺ 51 | 24°10 | 29° 7 | 19°39 | 14°32 | 23°50 | 19°50 | 23°47 | 25°12 | 7°38 | 2°40 | W 6 |
| T 7 | 13 2 5 | 17°25'20 | 9 M .35 | 14° 4 | 1°56 | 23°51 | 29°15 | 19°38 | 14°34 | 23°48 | 19°51 | 23°38 | 25° 9 | 7°45 | 2°44 | T 7 |
| F 8 | 13 6 1 | 18°24'29 | 21°36 | 13°15 | 3° 1 | 23°34 | 29°22 | 19°37 | 14°36 | 23°47 | 19°52 | 23°30 | 25° 5 | 7°51 | 2°47 | F 8 |
| S 9 | 13 9 58 | 19°23'35 | 3 ∡ 143 | 12°28 | 4° 7 | 23°16 | 29°29 | 19°36 | 14°39 | 23°45 | 19°53 | 23°26 | 25° 2 | 7°58 | 2°51 | S 9 |
| S 10 | 13 13 55 | 20°22'40 | 16° 0 | 11°43 | 5°13 | 23° 0 | 29°36 | 19°35 | 14°41 | 23°43 | 19°54 | 23°24 | 24°59 | 8° 5 | 2°54 | S 10 |
| M11 | 13 17 51 | 21°21'43 | 28°30 | 11° 2 | 6°19 | 22°44 | 29°43 | 19°34 | 14°43 | 23°42 | 19°55 | 23°D24 | 24°56 | 8°12 | 2°58 | M11 |
| T 12 | 13 21 48 | 22°20'44 | 11 る 17 | 10°25 | 7°25 | 22°29 | 29°49 | 19°33 | 14°46 | 23°40 | 19°56 | 23°25 | 24°53 | 8°18 | 3° 2 | T 12 |
| W13 | 13 25 44 | 23°19'43 | 24°25 | 9°53 | 8°31 | 22°15 | 29°56 | 19°31 | 14°48 | 23°38 | 19°57 | 23°R25 | 24°49 | 8°25 | 3° 5 | W13 |
| T 14 | 13 29 41 | 24°18'41 | 7≈57 | 9°25 | 9°38 | 22° 1 | 0≈ 2 | 19°30 | 14°51 | 23°37 | 19°58 | 23°24 | 24°46 | 8°32 | 3° 9 | T 14 |
| F 15 | 13 33 37 | 25°17'37 | 21°57 | 9° 2 | 10°45 | 21°48 | 0° 9 | 19°28 | 14°53 | 23°35 | 19°59 | 23°21 | 24°43 | 8°38 | 3°13 | F 15 |
| S 16 | 13 37 34 | 26°16'31 | 6 ∺ 22 | 8°45 | 11°51 | 21°36 | 0°15 | 19°26 | 14°56 | 23°33 | 20° 0 | 23°16 | 24°40 | 8°45 | 3°17 | S 16 |
| S 17 | 13 41 30 | 27°15'24 | 21°12 | 8°33 | 12°58 | 21°25 | 0°20 | 19°25 | 14°58 | 23°32 | 20° 1 | 23° 9 | 24°37 | 8°52 | 3°21 | S 17 |
| M18 | 13 45 27 | 28°14'14 | 6 Ƴ 18 | 8°26 | 14° 5 | 21°14 | 0°26 | 19°23 | 15° 1 | 23°30 | 20° 2 | 23° 1 | 24°34 | 8°59 | 3°25 | M18 |
| T 19 | 13 49 24 | 29°13'03 | 21°32 | 8°D24 | 15°13 | 21° 4 | 0°32 | 19°21 | 15° 4 | 23°29 | 20° 3 | 22°53 | 24°30 | 9° 5 | 3°29 | T 19 |
| W20 | 13 53 20 | 0811'50 | 6 8 44 | 8°28 | 16°20 | 20°55 | 0°37 | 19°19 | 15° 6 | 23°27 | 20° 4 | 22°45 | 24°27 | 9°12 | 3°33 | W20 |
| T 21 | 13 57 17 | 1°10'35 | 21°42 | 8°37 | 17°28 | 20°47 | 0°42 | 19°17 | 15° 9 | 23°25 | 20° 4 | 22°40 | 24°24 | 9°19 | 3°37 | T 21 |
| F 22 | 14 1 13 | 2° 9'18 | 6 Ⅱ 18 | 8°51 | 18°35 | 20°40 | 0°47 | 19°14 | 15°12 | 23°24 | 20° 5 | 22°36 | 24°21 | 9°25 | 3°41 | F 22 |
| S 23 | 14 5 10 | 3° 7'59 | 20°29 | 9° 9 | 19°43 | 20°33 | 0°52 | 19°12 | 15°15 | 23°22 | 20° 6 | 22°D35 | 24°18 | 9°32 | 3°45 | S 23 |
| S 24 | 14 9 6 | 4° 6'37 | 4910 | 9°32 | 20°51 | 20°27 | 0°57 | 19°10 | 15°18 | 23°20 | 20° 7 | 22°36 | 24°14 | 9°39 | 3°49 | S 24 |
| M25 | 14 13 3 | 5° 5'14 | 17°25 | 10° 0 | 21°59 | 20°22 | 1° 2 | 19° 7 | 15°20 | 23°19 | 20° 7 | 22°37 | 24°11 | 9°46 | 3°53 | M25 |
| T 26 | 14 16 59 | 6° 3'48 | 0Ω14 | 10°31 | 23° 7 | 20°18 | 1° 6 | 19° 5 | 15°23 | 23°17 | 20° 8 | 22°R38 | 24° 8 | 9°52 | 3°57 | T 26 |
| W27 | 14 20 56 | 7° 2'20 | 12°44 | 11° 7 | 24°15 | 20°15 | 1°10 | 19° 2 | 15°26 | 23°16 | 20° 9 | 22°38 | 24° 5 | 9°59 | 4° 1 | W27 |
| T 28 | 14 24 53 | 8° 0'50 | 24°58 | 11°47 | 25°23 | 20°12 | 1°14 | 18°59 | 15°29 | 23°14 | 20° 9 | 22°36 | 24° 2 | 10° 6 | 4° 6 | T 28 |
| F 29 | 14 28 49 | 8°59'18 | 7 m) 0 | 12°30 | 26°32 | 20°10 | 1°18 | 18°56 | 15°32 | 23°12 | 20°10 | 22°33 | 23°59 | 10°12 | 4°10 | F 29 |
| S 30 | 14 32 46 | 9 8 57'43 | 18 m 56 | 13 Y 17 | 27) (40 | 20 m 9 | 1≈22 | 18 ×7 54 | 15 Ⅱ 35 | 23 ₽ 11 | 20≈11 | 22 II 27 | 23耳55 | 10 ≏ 19 | 4 Ⅱ 14 | S 30 |

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| S 1 | 14 36 42 | 10856'07 | 0 ჲ 48 | 14 Y 8 | 28) (49 | 20°D 9 | 1≈26 | 18°R51 | 15∏38 | 23°R 9 | 20≈11 | 22°R21 | 23 II 52 | 10 ≏ 26 | 4 Ⅱ 18 | S 1 |
| M 2 | 14 40 39 | 11°54'28 | 12°39 | 15° 1 | 29°57 | 20Mp 9 | 1°29 | 18 ∡ 748 | 15°41 | 23 <u>₽</u> 8 | 20°12 | 22 I I3 | 23°49 | 10°33 | 4°23 | M 2 |
| T 3 | 14 44 35 | 12°52'48 | 24°33 | 15°58 | 1 Υ 6 | 20°10 | 1°32 | 18°44 | 15°44 | 23° 6 | 20°12 | 22° 6 | 23°46 | 10°39 | 4°27 | T 3 |
| W 4 | 14 48 32 | 13°51'06 | 6 M 31 | 16°58 | 2°15 | 20°12 | 1°35 | 18°41 | 15°47 | 23° 5 | 20°13 | 21°59 | 23°43 | 10°46 | 4°31 | W 4 |
| T 5 | 14 52 28 | 14°49'22 | 18°34 | 18° 0 | 3°24 | 20°14 | 1°38 | 18°38 | 15°51 | 23° 3 | 20°13 | 21°53 | 23°40 | 10°53 | 4°36 | T 5 |
| F 6 | 14 56 25 | 15°47'36 | 0 ∡ 745 | 19° 5 | 4°33 | 20°18 | 1°41 | 18°35 | 15°54 | 23° 2 | 20°13 | 21°50 | 23°36 | 10°59 | 4°40 | F 6 |
| S 7 | 15 0 22 | 16°45'49 | 13° 5 | 20°13 | 5°42 | 20°22 | 1°43 | 18°31 | 15°57 | 23° 0 | 20°14 | 21°48 | 23°33 | 11° 6 | 4°45 | S 7 |
| S 8 | 15 4 18 | 17°44'00 | 25°34 | 21°24 | 6°51 | 20°26 | 1°45 | 18°28 | 16° 0 | 22°59 | 20°14 | 21°D48 | 23°30 | 11°13 | 4°49 | S 8 |
| M 9 | 15 8 15 | 18°42'09 | 8 궁 17 | 22°37 | 8° 0 | 20°32 | 1°47 | 18°24 | 16° 3 | 22°57 | 20°15 | 21°48 | 23°27 | 11°20 | 4°54 | M 9 |
| T 10 | 15 12 11 | 19°40'17 | 21°13 | 23°52 | 9°10 | 20°38 | 1°49 | 18°21 | 16° 7 | 22°56 | 20°15 | 21°50 | 23°24 | 11°26 | 4°58 | T 10 |
| W11 | 15 16 8 | 20°38'24 | 4≈27 | 25°10 | 10°19 | 20°44 | 1°51 | 18°17 | 16°10 | 22°54 | 20°15 | 21°51 | 23°20 | 11°33 | 5° 2 | W11 |
| T 12 | 15 20 4 | 21°36'29 | 17°59 | 26°30 | 11°29 | 20°51 | 1°53 | 18°14 | 16°13 | 22°53 | 20°15 | 21°R52 | 23°17 | 11°40 | 5° 7 | T 12 |
| F 13 | 15 24 1 | 22°34'33 | 1) 52 | 27°53 | 12°38 | 20°59 | 1°54 | 18°10 | 16°16 | 22°52 | 20°16 | 21°52 | 23°14 | 11°46 | 5°11 | F 13 |
| S 14 | 15 27 57 | 23°32'36 | 16° 5 | 29°17 | 13°48 | 21° 8 | 1°55 | 18° 6 | 16°20 | 22°50 | 20°16 | 21°50 | 23°11 | 11°53 | 5°16 | S 14 |
| S 15 | 15 31 54 | 24°30'37 | 0 Υ 37 | 0844 | 14°58 | 21°17 | 1°56 | 18° 2 | 16°23 | 22°49 | 20°16 | 21°48 | 23° 8 | 12° 0 | 5°21 | S 15 |
| M16 | 15 35 51 | 25°28'37 | 15°22 | 2°13 | 16° 7 | 21°27 | 1°57 | 17°58 | 16°26 | 22°48 | 20°16 | 21°44 | 23° 5 | 12° 7 | 5°25 | M16 |
| T 17 | 15 39 47 | 26°26'35 | 0816 | 3°44 | 17°17 | 21°37 | 1°57 | 17°54 | 16°30 | 22°46 | 20°16 | 21°41 | 23° 1 | 12°13 | 5°30 | T 17 |
| W18 | 15 43 44 | 27°24'32 | 15° 9 | 5°17 | 18°27 | 21°48 | 1°58 | 17°50 | 16°33 | 22°45 | 20°16 | 21°38 | 22°58 | 12°20 | 5°34 | W18 |
| T 19 | 15 47 40 | 28°22'28 | 29°54 | 6°53 | 19°37 | 22° 0 | 1°58 | 17°46 | 16°37 | 22°44 | 20°16 | 21°36 | 22°55 | 12°27 | 5°39 | T 19 |
| F 20 | 15 51 37 | 29°20'22 | 14∏23 | 8°30 | 20°47 | 22°12 | 1°R58 | 17°42 | 16°40 | 22°42 | 20°17 | 21°34 | 22°52 | 12°33 | 5°43 | F 20 |
| S 21 | 15 55 33 | 0 Ⅱ 18'15 | 28°32 | 10°10 | 21°57 | 22°24 | 1°58 | 17°38 | 16°43 | 22°41 | 20°R17 | 21°D34 | 22°49 | 12°40 | 5°48 | S 21 |
| S 22 | 15 59 30 | 1°16'06 | 129516 | 11°52 | 23° 7 | 22°38 | 1°57 | 17°34 | 16°47 | 22°40 | 20°17 | 21°35 | 22°46 | 12°47 | 5°53 | S 22 |
| M23 | 16 3 26 | 2°13'56 | 25°34 | 13°35 | 24°18 | 22°51 | 1°57 | 17°30 | 16°50 | 22°39 | 20°16 | 21°37 | 22°42 | 12°54 | 5°57 | M23 |
| T 24 | 16 7 23 | 3°11'44 | 8 Ω 29 | 15°21 | 25°28 | 23° 6 | 1°56 | 17°26 | 16°54 | 22°38 | 20°16 | 21°38 | 22°39 | 13° 0 | 6° 2 | T 24 |
| W25 | 16 11 20 | 4° 9'30 | 21° 3 | 17° 9 | 26°38 | 23°20 | 1°55 | 17°21 | 16°57 | 22°37 | 20°16 | 21°39 | 22°36 | 13° 7 | 6° 6 | W25 |
| T 26 | 16 15 16 | 5° 7'15 | 3 m 20 | 18°59 | 27°49 | 23°36 | 1°54 | 17°17 | 17° 1 | 22°35 | 20°16 | 21°R40 | 22°33 | 13°14 | 6°11 | T 26 |
| F 27 | 16 19 13 | 6° 4'58 | 15°25 | 20°51 | 28°59 | 23°52 | 1°53 | 17°13 | 17° 4 | 22°34 | 20°16 | 21°39 | 22°30 | 13°21 | 6°16 | F 27 |
| S 28 | 16 23 9 | 7° 2'39 | 27°21 | 22°46 | 0 8 9 | 24° 8 | 1°51 | 17° 8 | 17° 8 | 22°33 | 20°16 | 21°38 | 22°26 | 13°27 | 6°20 | S 28 |
| S 29 | 16 27 6 | 8° 0'19 | 9 ≏ 13 | 24°42 | 1°20 | 24°25 | 1°50 | 17° 4 | 17°11 | 22°32 | 20°16 | 21°37 | 22°23 | 13°34 | 6°25 | S 29 |
| M30 | 16 31 2 | 8°57'57 | 21° 6 | 26°40 | 2°30 | 24°42 | 1°48 | 17° 0 | 17°15 | 22°31 | 20°15 | 21°35 | 22°20 | 13°41 | 6°29 | M30 |
| T 31 | 16 34 59 | 9 Ⅱ 55'34 | 3M 2 | 28840 | 3 8 41 | 24 Mp 59 | 1≈46 | 16 × 755 | 17 Ⅱ 18 | 22 ॒ 30 | 20≈15 | 21 II 33 | 22 I 17 | 13 ≏ 47 | 6 Ⅱ 34 | T 31 |

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| W 1 | 16 38 55 | 10 Ⅱ 53'10 | 15 M 5 | 0 Д 43 | 4 8 52 | 25 m 18 | 1°R43 | 16°R51 | 17 Ⅲ 22 | 22°R29 | 20°R15 | 21°R32 | 22 I I14 | 13 ≏ 54 | 6 Ⅱ 39 | W 1 |
| T 2 | 16 42 52 | 11°50'44 | 27°18 | 2°47 | 6° 2 | 25°36 | 1≈41 | 16 ∡ 747 | 17°25 | 22 ॒ 28 | 20≈15 | 21 II 31 | 22°11 | 14° 1 | 6°43 | T 2 |
| F 3 | 16 46 49 | 12°48'18 | 9 .₹ 41 | 4°52 | 7°13 | 25°55 | 1°38 | 16°42 | 17°29 | 22°27 | 20°14 | 21°30 | 22° 7 | 14° 7 | 6°48 | F 3 |
| S 4 | 16 50 45 | 13°45'50 | 22°17 | 6°59 | 8°24 | 26°14 | 1°36 | 16°38 | 17°32 | 22°26 | 20°14 | 21°D30 | 22° 4 | 14°14 | 6°52 | S 4 |
| S 5 | 16 54 42 | 14°43'21 | 5 හි | 9° 8 | 9°35 | 26°34 | 1°33 | 16°33 | 17°36 | 22°26 | 20°14 | 21°30 | 22° 1 | 14°21 | 6°57 | S 5 |
| M 6 | 16 58 38 | 15°40'51 | 18° 8 | 11°18 | 10°45 | 26°54 | 1°29 | 16°29 | 17°39 | 22°25 | 20°13 | 21°31 | 21°58 | 14°28 | 7° 2 | M 6 |
| T 7 | 17 2 35 | 16°38'21 | 1≈24 | 13°28 | 11°56 | 27°15 | 1°26 | 16°24 | 17°43 | 22°24 | 20°13 | 21°31 | 21°55 | 14°34 | 7° 6 | T 7 |
| W 8 | 17 631 | 17°35'49 | 14°54 | 15°40 | 13° 7 | 27°36 | 1°23 | 16°20 | 17°46 | 22°23 | 20°12 | 21°31 | 21°52 | 14°41 | 7°11 | W 8 |
| T 9 | 17 10 28 | 18°33'17 | 28°37 | 17°52 | 14°18 | 27°57 | 1°19 | 16°16 | 17°50 | 22°22 | 20°12 | 21°32 | 21°48 | 14°48 | 7°15 | T 9 |
| F 10 | 17 14 24 | 19°30'44 | 12) 33 | 20° 4 | 15°29 | 28°19 | 1°15 | 16°11 | 17°54 | 22°22 | 20°11 | 21°32 | 21°45 | 14°54 | 7°20 | F 10 |
| S 11 | 17 18 21 | 20°28'10 | 26°41 | 22°16 | 16°40 | 28°41 | 1°11 | 16° 7 | 17°57 | 22°21 | 20°11 | 21°R32 | 21°42 | 15° 1 | 7°24 | S 11 |
| S 12 | 17 22 18 | 21°25'36 | 10 Y 59 | 24°28 | 17°51 | 29° 3 | 1° 7 | 16° 2 | 18° 1 | 22°20 | 20°10 | 21°D32 | 21°39 | 15° 8 | 7°29 | S 12 |
| M13 | 17 26 14 | 22°23'01 | 25°24 | 26°39 | 19° 3 | 29°26 | 1° 3 | 15°58 | 18° 4 | 22°20 | 20°10 | 21°32 | 21°36 | 15°15 | 7°33 | M13 |
| T 14 | 17 30 11 | 23°20'26 | 9 8 52 | 28°49 | 20°14 | 29°49 | 0°58 | 15°53 | 18° 8 | 22°19 | 20° 9 | 21°32 | 21°32 | 15°21 | 7°38 | T 14 |
| W15 | 17 34 7 | 24°17'50 | 24°19 | 0958 | 21°25 | 0 ჲ 12 | 0°53 | 15°49 | 18°11 | 22°18 | 20° 9 | 21°32 | 21°29 | 15°28 | 7°42 | W15 |
| T 16 | 17 38 4 | 25°15'13 | 8耳39 | 3° 6 | 22°36 | 0°36 | 0°49 | 15°45 | 18°15 | 22°18 | 20° 8 | 21°32 | 21°26 | 15°35 | 7°47 | T 16 |
| F 17 | 17 42 0 | 26°12'36 | 22°49 | 5°13 | 23°48 | 1° 0 | 0°44 | 15°40 | 18°18 | 22°17 | 20° 7 | 21°R33 | 21°23 | 15°41 | 7°51 | F 17 |
| S 18 | 17 45 57 | 27° 9'59 | 69542 | 7°18 | 24°59 | 1°25 | 0°39 | 15°36 | 18°22 | 22°17 | 20° 7 | 21°32 | 21°20 | 15°48 | 7°56 | S 18 |
| S 19 | 17 49 54 | 28° 7'20 | 20°18 | 9°21 | 26°10 | 1°50 | 0°33 | 15°32 | 18°25 | 22°16 | 20° 6 | 21°32 | 21°17 | 15°55 | 8° 0 | S 19 |
| M20 | 17 53 50 | 29° 4'41 | 3 Ω 33 | 11°22 | 27°22 | 2°15 | 0°28 | 15°27 | 18°29 | 22°16 | 20° 5 | 21°31 | 21°13 | 16° 2 | 8° 5 | M20 |
| T 21 | 17 57 47 | 09 2'01 | 16°27 | 13°21 | 28°33 | 2°40 | 0°22 | 15°23 | 18°32 | 22°15 | 20° 4 | 21°30 | 21°10 | 16° 8 | 8° 9 | T 21 |
| W22 | 18 1 43 | 0°59'20 | 29° 2 | 15°17 | 29°45 | 3° 6 | 0°17 | 15°19 | 18°36 | 22°15 | 20° 4 | 21°29 | 21° 7 | 16°15 | 8°13 | W22 |
| T 23 | 18 5 40 | 1°56'38 | 11 m 21 | 17°12 | 0耳56 | 3°31 | 0°11 | 15°15 | 18°39 | 22°15 | 20° 3 | 21°28 | 21° 4 | 16°22 | 8°18 | T 23 |
| F 24 | 18 9 36 | 2°53'56 | 23°27 | 19° 5 | 2° 8 | 3°58 | <u>0</u> ° 5 | 15°11 | 18°43 | 22°14 | 20° 2 | 21°27 | 21° 1 | 16°28 | 8°22 | F 24 |
| S 25 | 18 13 33 | 3°51'13 | 5 ≏ 24 | 20°55 | 3°20 | 4°24 | 29 궁 59 | 15° 7 | 18°46 | 22°14 | 20° 1 | 21°D27 | 20°58 | 16°35 | 8°26 | S 25 |
| S 26 | 18 17 29 | 4°48'29 | 17°17 | 22°43 | 4°31 | 4°51 | 29°53 | 15° 3 | 18°50 | 22°14 | 20° 0 | 21°27 | 20°54 | 16°42 | 8°31 | S 26 |
| M27 | 18 21 26 | 5°45'44 | 29°10 | 24°28 | 5°43 | 5°18 | 29°46 | 14°59 | 18°53 | 22°14 | 19°59 | 21°28 | 20°51 | 16°49 | 8°35 | M27 |
| T 28 | 18 25 23 | 6°42'59 | 11 M 9 | 26°12 | 6°54 | 5°45 | 29°40 | 14°55 | 18°56 | 22°13 | 19°59 | 21°30 | 20°48 | 16°55 | 8°39 | T 28 |
| W29 | 18 29 19 | 7°40'13 | 23°16 | 27°53 | 8° 6 | 6°13 | 29°33 | 14°51 | 19° 0 | 22°13 | 19°58 | 21°31 | 20°45 | 17° 2 | 8°43 | W29 |
| T 30 | 18 33 16 | 8937'26 | 5 ₹ 36 | 29932 | 9∏18 | 6 ≏ 41 | 29 궁 27 | 14 ∡ 47 | 19 I I 3 | 22 ₾ 13 | 19 ≈ 57 | 21 II 32 | 20 Ⅱ 42 | 17 ♀ 9 | 8 Ⅱ 48 | T 30 |

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| F 1 | 18 37 12 | 9 © 34'40 | 18 ½ 11 | 1 0 8 | 10 川 30 | 7 ₾ 9 | 29°R20 | 14°R43 | 19 I 7 | 22°R13 | 19°R56 | 21°R33 | 20∏38 | 17 ≏ 15 | 8Д52 | F 1 |
| S 2 | 18 41 9 | 10°31'52 | 1る 3 | 2°42 | 11°42 | 7°37 | 29 궁 13 | 14 × 39 | 19°10 | 22 ₾ 13 | 19 ≈ 55 | 21 II 32 | 20°35 | 17°22 | 8°56 | S 2 |
| S 3 | 18 45 5 | 11°29'05 | 14°13 | 4°14 | 12°53 | 8° 6 | 29° 6 | 14°35 | 19°13 | 22°D13 | 19°54 | 21°31 | 20°32 | 17°29 | 9° 0 | S 3 |
| M 4 T 5 | 18 49 2 18 52 58 | 12°26'17 13°23'30 | 27°40 11 ≈ 21 | 5°43 7°10 | 14° 5 15°17 | 8°34 9° 3 | 28°59 28°52 | 14°32 14°28 | 19°17 19°20 | 22°13 22°13 | 19°53 19°52 | 21°29 21°26 | 20°29 20°26 | 17°36 17°42 | 9° 4 9° 8 | M 4 T 5 |
| W 6 | 18 56 55 | 13°23'30' 14°20'42 | 25°16 | 8°34 | 16°29 | 9°33 | 28°45 | 14°25 | 19°23 | 22°13 | 19°51 | 21°23 | 20°23 | 17°49 | 9°12 | W 6 |
| T 7 | 19 0 52 | 15°17'54 | 9 ∺ 20 | 9°56 | 17°41 | 10° 2 | 28°37 | 14°21 | 19°27 | 22°13 | 19°50 | 21°20 | 20°19 | 17°56 | 9°16 | T 7 |
| F 8 | 19 4 48 | 16°15'06 | 23°30 | 11°16 | 18°53 | 10°32 | 28°30 | 14°18 | 19°30 | 22°13 | 19°49 | 21°18 | 20°16 | 18° 2 | 9°20 | F 8 |
| S 9 | 19 8 45 | 17°12'19 | 7 ℃ 44 | 12°33 | 20° 5 | 11° 2 | 28°23 | 14°14 | 19°33 | 22°14 | 19°48 | 21°17 | 20°13 | 18° 9 | 9°24 | S 9 |
| S 10 M11 | 19 12 41 19 16 38 | 18° 9'32 19° 6'45 | 21°57 6 8 8 | 13°48 14°59 | 21°18 22°30 | 11°32 12° 2 | 28°15 28° 8 | 14°11 14° 8 | 19°36 19°39 | 22°14 22°14 | 19°46 19°45 | 21°D16 21°17 | 20°10 20° 7 | 18°16 18°22 | 9°28 9°32 | S 10 M11 |
| T 12 | 19 20 34 | 20° 3'59 | 20°16 | 16° 8 | 23°42 | 12°33 | 28° 0 | 14° 5 | 19°43 | 22°14 | 19°44 | 21°18 | 20° 4 | 18°29 | 9°36 | T 12 |
| W13 | 19 24 31 | 21° 1'13 | 4 Ⅱ 17 | 17°15 | 24°54 | 13° 4 | 27°53 | 14° 1 | 19°46 | 22°15 | 19°43 | 21°20 | 20° 0 | 18°36 | 9°39 | W13 |
| T 14 | 19 28 27 | 21°58'27 | 18°10 | 18°18 | 26° 7 | 13°35 | 27°45 | 13°58 | 19°49 | 22°15 | 19°42 | 21°R21 | 19°57 | 18°43 | 9°43 | T 14 |
| F 15 S 16 | 19 32 24 19 36 21 | 22°55'42 23°52'57 | 1 9 54 15°25 | 19°19 20°16 | 27°19 28°31 | 14° 6 14°37 | 27°37 27°30 | 13°55 13°53 | 19°52 19°55 | 22°15 22°16 | 19°41 19°40 | 21°20 21°18 | 19°54 19°51 | 18°49 18°56 | 9°47 9°51 | F 15 S 16 |
| S 17 | 19 40 17 | 24°50'12 | 28°43 | 21°11 | 29°44 | 15° 9 | 27°22 | 13°50 | 19°58 | 22°16 | 19°38 | 21°15 | 19°48 | 19° 3 | 9°54 | S 17 |
| M18 | 19 44 14 | 25°47'27 | $11\Omega 45$ | 22° 2 | 0956 | 15°40 | 27°14 | 13°47 | 20° 1 | 22°17 | 19°37 | 21°10 | 19°44 | 19° 9 | 9°58 | M18 |
| T 19 | 19 48 10 | 26°44'43 | 24°32 | 22°49 | 2° 9 | 16°12 | 27° 6 | 13°44 | 20° 4 | 22°17 | 19°36 | 21° 4 | 19°41 | 19°16 | 10° 1 | T 19 |
| W20 | 19 52 7 19 56 3 | 27°41'59 28°39'14 | 7 Mg 3 19°19 | 23°34 24°14 | 3°21 4°34 | 16°45 17°17 | 26°59 26°51 | 13°42 13°39 | 20° 7 20°10 | 22°18 22°18 | 19°35 19°33 | 20°58 20°52 | 19°38 19°35 | 19°23 19°30 | 10° 5 10° 8 | W20 T 21 |
| T 21 F 22 | 20 0 0 | 28°39°14 29°36'30 | 19°19 1 ≏ 24 | 24°14 24°51 | 5°46 | 17°17 | 26°43 | 13°39 13°37 | 20°10 20°13 | 22°18 | 19°33 | 20°52 20°47 | 19°33 | 19°36 | 10° 8 10°12 | F 22 |
| S 23 | 20 3 56 | 0 £ 33'46 | 13°20 | 25°23 | 6°59 | 18°22 | 26°35 | 13°35 | 20°16 | 22°19 | 19°31 | 20°44 | 19°29 | 19°43 | 10°15 | S 23 |
| S 24 | 20 7 53 | 1°31'02 | 25°12 | 25°52 | 8°11 | 18°55 | 26°28 | 13°32 | 20°19 | 22°20 | 19°30 | 20°43 | 19°25 | 19°50 | 10°19 | S 24 |
| M25 | 20 11 50 | 2°28'19 | 7 M 5 | 26°16 | 9°24 | 19°28 | 26°20 | 13°30 | 20°22 | 22°21 | 19°28 | 20°D42 | 19°22 | 19°56 | 10°22 | M25 |
| T 26 W27 | 20 15 46 20 19 43 | 3°25'36 4°22'53 | 19° 3 11 7 11 | 26°36 26°51 | 10°37 11°49 | 20° 1 20°35 | 26°12 26° 5 | 13°28 13°26 | 20°25 20°27 | 22°21 22°22 | 19°27 19°26 | 20°43 20°45 | 19°19 19°16 | 20° 3 20°10 | 10°25 10°28 | T 26 W27 |
| T 28 | 20 19 43 20 23 39 | 5°20'10 | 13°34 | 20°31 27° 2 | 11°49 13° 2 | 20°33 21° 8 | 25°57 | 13°24 | 20°27 20°30 | 22°23 | 19°25 | 20°45 20°46 | 19°16 | 20°16 | 10°28 10°31 | T 28 |
| F 29 | 20 27 36 | 6°17'28 | 26°16 | 27° 7 | 14°15 | 21°42 | 25°50 | 13°22 | 20°33 | 22°24 | 19°23 | 20°R46 | 19°10 | 20°23 | 10°35 | F 29 |
| S 30 | 20 31 32 | 7°14'46 | 9 ට 20 | 27°R 8 | 15°28 | 22°16 | 25°42 | 13°21 | 20°35 | 22°24 | 19°22 | 20°45 | 19° 6 | 20°30 | 10°38 | S 30 |
| S 31 | 20 35 29 | 8 Ω 12'05 | 22 る 47 | 27 N 3 | 169541 | 22 ≙ 50 | 25 궁 35 | 13 × 19 | 20∏38 | 22 ≏ 25 | 19 ≈ 21 | 20∏41 | 19耳 3 | 20 ≏ 37 | 10 Ⅱ 41 | S 31 |

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| M 1 | 20 39 25 | 9⋒ 9'24 | 6≈36 | 26°R54 | 179554 | 23 ≏ 24 | 25°R28 | 13°R17 | 20 Ⅱ 41 | 22 ≏ 26 | 19°R19 | 20°R35 | 19 I I 0 | 20 ჲ 43 | 10 Ⅱ 44 | M 1 |
| T 2 | 20 43 22 | 10° 6'44 | 20°44 | 26 Ω 39 | 19° 7 | 23°58 | 25 る 20 | 13 × 16 | 20°43 | 22°27 | 19 ≈ 18 | 20∏28 | 18°57 | 20°50 | 10°47 | T 2 |
| W 3 | 20 47 19 | 11° 4'05 | 5 米 6 | 26°20 | 20°20 | 24°33 | 25°13 | 13°15 | 20°46 | 22°28 | 19°17 | 20°21 | 18°54 | 20°57 | 10°49 | W 3 |
| T 4 | 20 51 15 | 12° 1'26 | 19°37 | 25°56 | 21°33 | 25° 7 | 25° 6 | 13°13 | 20°48 | 22°29 | 19°15 | 20°13 | 18°50 | 21° 3 | 10°52 | T 4 |
| F 5 | 20 55 12 | 12°58'48 | 4Υ 9 | 25°27 | 22°46 | 25°42 | 24°59 | 13°12 | 20°51 | 22°30 | 19°14 | 20° 7 | 18°47 | 21°10 | 10°55 | F 5 |
| S 6 | 20 59 8 | 13°56'12 | 18°38 | 24°54 | 23°59 | 26°17 | 24°52 | 13°11 | 20°53 | 22°31 | 19°13 | 20° 2 | 18°44 | 21°17 | 10°58 | S 6 |
| S 7 | 21 3 5 | 14°53'37 | 2 8 57 | 24°17 | 25°12 | 26°52 | 24°45 | 13°10 | 20°56 | 22°32 | 19°11 | 20° 0 | 18°41 | 21°23 | 11° 0 | S 7 |
| M 8 | 21 7 1 | 15°51'03 | 17° 6 | 23°36 | 26°25 | 27°28 | 24°38 | 13° 9 | 20°58 | 22°33 | 19°10 | 19°D59 | 18°38 | 21°30 | 11° 3 | M 8 |
| T 9 | 21 10 58 | 16°48'30 | 1 II 2 | 22°53 | 27°38 | 28° 3 | 24°32 | 13° 8 | 21° 1 | 22°34 | 19° 9 | 19°59 | 18°35 | 21°37 | 11° 6 | T 9 |
| W10 | 21 14 54 | 17°45'58 | 14°46 | 22° 7 | 28°51 | 28°38 | 24°25 | 13° 8 | 21° 3 | 22°36 | 19° 7 | 20°R 0 | 18°31 | 21°44 | 11° 8 | W10 |
| T 11 | 21 18 51 | 18°43'28 | 28°17 | 21°21 | 0Ω 5 | 29°14 | 24°19 | 13° 7 | 21° 5 | 22°37 | 19° 6 | 20° 0 | 18°28 | 21°50 | 11°11 | T 11 |
| F 12 | 21 22 48 | 19°40'59 | 119537 | 20°33 | 1°18 | 29°50 | 24°12 | 13° 6 | 21° 7 | 22°38 | 19° 4 | 19°58 | 18°25 | 21°57 | 11°13 | F 12 |
| S 13 | 21 26 44 | 20°38'31 | 24°45 | 19°46 | 2°31 | 0 M .26 | 24° 6 | 13° 6 | 21° 9 | 22°39 | 19° 3 | 19°53 | 18°22 | 22° 4 | 11°15 | S 13 |
| S 14 | 21 30 41 | 21°36'04 | $7\Omega_{42}$ | 19° 1 | 3°45 | 1° 2 | 24° 0 | 13° 6 | 21°12 | 22°40 | 19° 2 | 19°46 | 18°19 | 22°10 | 11°18 | S 14 |
| M15 | 21 34 37 | 22°33'39 | 20°27 | 18°17 | 4°58 | 1°38 | 23°54 | 13° 5 | 21°14 | 22°42 | 19° 0 | 19°37 | 18°16 | 22°17 | 11°20 | M15 |
| T 16 | 21 38 34 | 23°31'14 | 3 Mp 0 | 17°36 | 6°12 | 2°15 | 23°48 | 13° 5 | 21°16 | 22°43 | 18°59 | 19°26 | 18°12 | 22°24 | 11°22 | T 16 |
| W17 | 21 42 30 | 24°28'51 | 15°22 | 16°59 | 7°25 | 2°51 | 23°43 | 13°D 5 | 21°18 | 22°44 | 18°58 | 19°14 | 18° 9 | 22°30 | 11°24 | W17 |
| T 18 | 21 46 27 | 25°26'28 | 27°32 | 16°27 | 8°39 | 3°28 | 23°37 | 13° 5 | 21°20 | 22°46 | 18°56 | 19° 3 | 18° 6 | 22°37 | 11°26 | T 18 |
| F 19 | 21 50 23 | 26°24'07 | 9 ₾ 32 | 16° 0 | 9°52 | 4° 5 | 23°32 | 13° 5 | 21°22 | 22°47 | 18°55 | 18°53 | 18° 3 | 22°44 | 11°28 | F 19 |
| S 20 | 21 54 20 | 27°21'46 | 21°26 | 15°39 | 11° 6 | 4°42 | 23°26 | 13° 6 | 21°24 | 22°49 | 18°54 | 18°45 | 18° 0 | 22°51 | 11°30 | S 20 |
| S 21 | 21 58 17 | 28°19'27 | 3 M .16 | 15°24 | 12°20 | 5°19 | 23°21 | 13° 6 | 21°25 | 22°50 | 18°52 | 18°40 | 17°56 | 22°57 | 11°32 | S 21 |
| M22 | 22 2 13 | 29°17'09 | 15° 6 | 15°16 | 13°33 | 5°56 | 23°16 | 13° 6 | 21°27 | 22°51 | 18°51 | 18°37 | 17°53 | 23° 4 | 11°34 | M22 |
| T 23 | 22 6 10 | 0 m) 14'51 | 27° 2 | 15°D15 | 14°47 | 6°33 | 23°11 | 13° 7 | 21°29 | 22°53 | 18°50 | 18°D36 | 17°50 | 23°11 | 11°35 | T 23 |
| W24 | 22 10 6 | 1°12'35 | 9 , ₹ 8 | 15°22 | 16° 1 | 7°11 | 23° 7 | 13° 8 | 21°31 | 22°54 | 18°48 | 18°36 | 17°47 | 23°17 | 11°37 | W24 |
| T 25 | 22 14 3 | 2°10'20 | 21°30 | 15°36 | 17°14 | 7°48 | 23° 2 | 13° 8 | 21°32 | 22°56 | 18°47 | 18°R36 | 17°44 | 23°24 | 11°39 | T 25 |
| F 26 | 22 17 59 | 3° 8'06 | 4 궁 12 | 15°58 | 18°28 | 8°26 | 22°58 | 13° 9 | 21°34 | 22°58 | 18°46 | 18°36 | 17°41 | 23°31 | 11°40 | F 26 |
| S 27 | 22 21 56 | 4° 5'54 | 17°20 | 16°27 | 19°42 | 9° 4 | 22°54 | 13°10 | 21°36 | 22°59 | 18°44 | 18°33 | 17°37 | 23°37 | 11°42 | S 27 |
| S 28 | 22 25 52 | 5° 3'42 | 0≈55 | 17° 4 | 20°56 | 9°42 | 22°50 | 13°11 | 21°37 | 23° 1 | 18°43 | 18°27 | 17°34 | 23°44 | 11°43 | S 28 |
| M29 | 22 29 49 | 6° 1'32 | 14°57 | 17°49 | 22°10 | 10°20 | 22°46 | 13°12 | 21°39 | 23° 2 | 18°42 | 18°19 | 17°31 | 23°51 | 11°44 | M29 |
| T 30 | 22 33 46 | 6°59'23 | 29°24 | 18°41 | 23°24 | 10°58 | 22°42 | 13°13 | 21°40 | 23° 4 | 18°41 | 18°10 | 17°28 | 23°58 | 11°46 | T 30 |
| W31 | 22 37 42 | 7 m 57'15 | 14 米 9 | 19 Ω 39 | 24⋒38 | 11 M 36 | 22 궁 39 | 13 ∡ 15 | 21 Ⅱ 42 | 23 ₾ 6 | 18 ≈ 39 | 17 Ⅱ 59 | 17 Ⅲ 25 | 24 ♀ 4 | 11 Ⅱ 47 | W31 |

Delta T = 266.37 sec

SEPTEMBER 2281 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | В | n | v | Ç | ę, | Day |
|------|----------|-----------------------------|-----------------|------------------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------|
| T 1 | 22 41 39 | 8 m 55'09 | 29 米 5 | 20 Ω 45 | 25 Ω 52 | 12 M .14 | 22°R36 | 13 × 16 | 21 Ⅱ 43 | 23 ♀ 7 | 18°R38 | 17°R48 | 17 Ⅱ 21 | 24 ₽ 11 | 11 Ⅱ 48 | T 1 |
| F 2 | 22 45 35 | 9°53'04 | 14 Y 2 | 21°57 | 27° 6 | 12°53 | 22 る 32 | 13°18 | 21°44 | 23° 9 | 18 ≈ 37 | 17 Ⅲ 38 | 17°18 | 24°18 | 11°49 | F 2 |
| S 3 | 22 49 32 | 10°51'01 | 28°51 | 23°15 | 28°20 | 13°32 | 22°29 | 13°19 | 21°45 | 23°11 | 18°36 | 17°31 | 17°15 | 24°24 | 11°50 | S 3 |
| S 4 | 22 53 28 | 11°49'00 | 13826 | 24°38 | 29°34 | 14°10 | 22°27 | 13°21 | 21°47 | 23°13 | 18°34 | 17°27 | 17°12 | 24°31 | 11°51 | S 4 |
| M 5 | 22 57 25 | 12°47'01 | 27°43 | 26° 7 | 0 ₯ 48 | 14°49 | 22°24 | 13°23 | 21°48 | 23°14 | 18°33 | 17°25 | 17° 9 | 24°38 | 11°52 | M 5 |
| T 6 | 23 1 21 | 13°45'04 | 11 II 39 | 27°41 | 2° 2 | 15°28 | 22°22 | 13°25 | 21°49 | 23°16 | 18°32 | 17°25 | 17° 6 | 24°44 | 11°53 | T 6 |
| W 7 | 23 5 18 | 14°43'09 | 25°17 | 29°18 | 3°16 | 16° 7 | 22°20 | 13°27 | 21°50 | 23°18 | 18°31 | 17°24 | 17° 2 | 24°51 | 11°54 | W 7 |
| T 8 | 23 9 15 | 15°41'16 | 8936 | 0 m 59 | 4°30 | 16°46 | 22°18 | 13°29 | 21°51 | 23°20 | 18°30 | 17°23 | 16°59 | 24°58 | 11°54 | T 8 |
| F 9 | 23 13 11 | 16°39'25 | 21°39 | 2°44 | 5°45 | 17°26 | 22°16 | 13°31 | 21°52 | 23°22 | 18°28 | 17°21 | 16°56 | 25° 4 | 11°55 | F 9 |
| S 10 | 23 17 8 | 17°37'36 | 4 Ω 29 | 4°31 | 6°59 | 18° 5 | 22°14 | 13°33 | 21°53 | 23°24 | 18°27 | 17°15 | 16°53 | 25°11 | 11°56 | S 10 |
| S 11 | 23 21 4 | 18°35'48 | 17° 8 | 6°20 | 8°13 | 18°45 | 22°13 | 13°35 | 21°54 | 23°26 | 18°26 | 17° 6 | 16°50 | 25°18 | 11°56 | S 11 |
| M12 | 23 25 1 | 19°34'02 | 29°36 | 8°11 | 9°28 | 19°24 | 22°11 | 13°38 | 21°55 | 23°27 | 18°25 | 16°55 | 16°47 | 25°25 | 11°56 | M12 |
| T 13 | 23 28 57 | 20°32'19 | 11 m 54 | 10° 3 | 10°42 | 20° 4 | 22°10 | 13°40 | 21°55 | 23°29 | 18°24 | 16°42 | 16°43 | 25°31 | 11°57 | T 13 |
| W14 | 23 32 54 | 21°30'37 | 24° 4 | 11°57 | 11°56 | 20°44 | 22° 9 | 13°43 | 21°56 | 23°31 | 18°23 | 16°28 | 16°40 | 25°38 | 11°57 | W14 |
| T 15 | 23 36 50 | 22°28'56 | 6₽ 6 | 13°51 | 13°11 | 21°24 | 22° 9 | 13°46 | 21°57 | 23°33 | 18°22 | 16°14 | 16°37 | 25°45 | 11°57 | T 15 |
| F 16 | 23 40 47 | 23°27'18 | 18° 2 | 15°45 | 14°25 | 22° 4 | 22° 8 | 13°48 | 21°57 | 23°35 | 18°21 | 16° 2 | 16°34 | 25°51 | 11°57 | F 16 |
| S 17 | 23 44 44 | 24°25'41 | 29°52 | 17°39 | 15°40 | 22°44 | 22° 8 | 13°51 | 21°58 | 23°37 | 18°20 | 15°52 | 16°31 | 25°58 | 11°58 | S 17 |
| S 18 | 23 48 40 | 25°24'06 | 11 M 40 | 19°34 | 16°54 | 23°24 | 22°D 8 | 13°54 | 21°58 | 23°39 | 18°18 | 15°45 | 16°27 | 26° 5 | 11°R58 | S 18 |
| M19 | 23 52 37 | 26°22'32 | 23°29 | 21°28 | 18° 9 | 24° 5 | 22° 8 | 13°57 | 21°59 | 23°41 | 18°17 | 15°41 | 16°24 | 26°11 | 11°57 | M19 |
| T 20 | 23 56 33 | 27°21'00 | 5 ₹ 23 | 23°21 | 19°23 | 24°45 | 22° 8 | 14° 1 | 21°59 | 23°43 | 18°16 | 15°39 | 16°21 | 26°18 | 11°57 | T 20 |
| W21 | 0 0 30 | 28°19'30 | 17°27 | 25°14 | 20°38 | 25°26 | 22° 9 | 14° 4 | 22° 0 | 23°45 | 18°16 | 15°D39 | 16°18 | 26°25 | 11°57 | W21 |
| T 22 | 0 4 26 | 29°18'01 | 29°45 | 27° 7 | 21°52 | 26° 6 | 22° 9 | 14° 7 | 22° 0 | 23°47 | 18°15 | 15°R39 | 16°15 | 26°31 | 11°57 | T 22 |
| F 23 | 0 8 23 | 0 2 16'35 1°15'09 | 12 3 25 | 28°58 0 Ω 49 | 23° 7 24°21 | 26°47 | 22°10 22°11 | 14°10 | 22° 0 22° 0 | 23°50 23°52 | 18°14 18°13 | 15°38 15°36 | 16°12 16° 8 | 26°38 | 11°57 | F 23 |
| S 24 | 0 12 19 | | 25°29 | | | 27°28 | | 14°14 | | | | | | 26°45 | 11°56 | S 24 |
| S 25 | 0 16 16 | 2°13'46 | 9≈ 2 | 2°39 | 25°36 | 28° 9 | 22°13 | 14°17 | 22° 0 | 23°54 | 18°12 | 15°31 | 16° 5 | 26°52 | 11°56 | S 25 |
| M26 | 0 20 13 | 3°12'24 | 23° 5 | 4°28 | 26°51 | 28°50 | 22°14 | 14°21 | 22° 1 | 23°56 | 18°11 | 15°24 | 16° 2 | 26°58 | 11°55 | M26 |
| T 27 | 0 24 9 | 4°11'03 | 7) €36 | 6°16 | 28° 5 | 29°31 | 22°16 | 14°25 | 22°R 1 | 23°58 | 18°10 | 15°15 | 15°59 | 27° 5 | 11°54 | T 27 |
| W28 | 0 28 6 | 5° 9'45 | 22°31 | 8° 3 | 29°20 | 0 ₹ 13 | 22°18 | 14°29 | 22° 1 | 24° 0 | 18° 9 | 15° 5 | 15°56 | 27°12 | 11°54 | W28 |
| T 29 | 0 32 2 | 6° 8'28 | 7 Υ 41 | 9°49 | 0 <u>₽</u> 35 | 0°54 | 22°20 | 14°33 | 22° 0 | 24° 2 | 18° 8 | 14°55 | 15°53 | 27°18 | 11°53 | T 29 |
| F 30 | 0 35 59 | 7 º 7'13 | 22 Y 56 | 11 ≏ 34 | 1 ≏ 50 | 1 ₹ 35 | 22 る 22 | 14 ⋌ 37 | 22 II 0 | 24 ♀ 4 | 18 ≈ 8 | 14∏46 | 15 Ⅱ 49 | 27 ≏ 25 | 11 II 52 | F 30 |

Delta T = 266.51 sec

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|------|---------|------------------|----------------|----------------|----------------|-----------------|----------------|-----------------|-----------------|----------------|---------------|----------------|----------------|----------------|-----------------|------|
| S 1 | 0 39 55 | 8 亞 6'00 | 8 8 5 | 13 ≏ 18 | 3 º 4 | 2 √ 17 | 22 る 24 | 14 ×7 41 | 22°R 0 | 24 ♀ 7 | 18°R 7 | 14°R39 | 15 Ⅱ 46 | 27 ≏ 32 | 11°R51 | S 1 |
| S 2 | 0 43 52 | 9° 4'50 | 22°58 | 15° 2 | 4°19 | 2°59 | 22°27 | 14°45 | 22 II 0 | 24° 9 | 18 ≈ 6 | 14 Ⅱ 35 | 15°43 | 27°38 | 11 II 50 | S 2 |
| M 3 | 0 47 48 | 10° 3'42 | 7Ⅱ29 | 16°44 | 5°34 | 3°40 | 22°29 | 14°49 | 22° 0 | 24°11 | 18° 5 | 14°34 | 15°40 | 27°45 | 11°49 | M 3 |
| T 4 | 0 51 45 | 11° 2'36 | 21°36 | 18°26 | 6°49 | 4°22 | 22°32 | 14°53 | 21°59 | 24°13 | 18° 5 | 14°D34 | 15°37 | 27°52 | 11°48 | T 4 |
| W 5 | 0 55 41 | 12° 1'32 | 5 9 517 | 20° 6 | 8° 3 | 5° 4 | 22°36 | 14°57 | 21°59 | 24°15 | 18° 4 | 14°34 | 15°33 | 27°58 | 11°47 | W 5 |
| T 6 | 0 59 38 | 13° 0'31 | 18°36 | 21°46 | 9°18 | 5°46 | 22°39 | 15° 2 | 21°59 | 24°17 | 18° 3 | 14°R34 | 15°30 | 28° 5 | 11°46 | T 6 |
| F 7 | 1 3 35 | 13°59'32 | 1 Ω 33 | 23°25 | 10°33 | 6°28 | 22°42 | 15° 6 | 21°58 | 24°20 | 18° 3 | 14°33 | 15°27 | 28°12 | 11°45 | F 7 |
| S 8 | 1 731 | 14°58'35 | 14°14 | 25° 3 | 11°48 | 7°10 | 22°46 | 15°11 | 21°58 | 24°22 | 18° 2 | 14°29 | 15°24 | 28°18 | 11°43 | S 8 |
| S 9 | 1 11 28 | 15°57'41 | 26°40 | 26°40 | 13° 3 | 7°52 | 22°50 | 15°16 | 21°57 | 24°24 | 18° 1 | 14°22 | 15°21 | 28°25 | 11°42 | S 9 |
| M10 | 1 15 24 | 16°56'48 | 8 m 56 | 28°16 | 14°18 | 8°35 | 22°54 | 15°20 | 21°56 | 24°26 | 18° 1 | 14°14 | 15°18 | 28°32 | 11°40 | M10 |
| T 11 | 1 19 21 | 17°55'58 | 21° 2 | 29°52 | 15°33 | 9°17 | 22°58 | 15°25 | 21°56 | 24°29 | 18° 0 | 14° 4 | 15°14 | 28°39 | 11°39 | T 11 |
| W12 | 1 23 17 | 18°55'10 | 3 ₾ 2 | 1 M 27 | 16°48 | 10° 0 | 23° 3 | 15°30 | 21°55 | 24°31 | 18° 0 | 13°53 | 15°11 | 28°45 | 11°37 | W12 |
| T 13 | 1 27 14 | 19°54'24 | 14°57 | 3° 1 | 18° 3 | 10°42 | 23° 7 | 15°35 | 21°54 | 24°33 | 17°59 | 13°42 | 15° 8 | 28°52 | 11°36 | T 13 |
| F 14 | 1 31 10 | 20°53'40 | 26°48 | 4°34 | 19°18 | 11°25 | 23°12 | 15°40 | 21°53 | 24°35 | 17°59 | 13°33 | 15° 5 | 28°59 | 11°34 | F 14 |
| S 15 | 1 35 7 | 21°52'58 | 8 M .37 | 6° 7 | 20°33 | 12° 8 | 23°17 | 15°45 | 21°52 | 24°37 | 17°58 | 13°25 | 15° 2 | 29° 5 | 11°32 | S 15 |
| S 16 | 1 39 4 | 22°52'18 | 20°26 | 7°38 | 21°48 | 12°51 | 23°22 | 15°50 | 21°52 | 24°40 | 17°58 | 13°20 | 14°58 | 29°12 | 11°30 | S 16 |
| M17 | 1 43 0 | 23°51'40 | 2 , 717 | 9° 9 | 23° 3 | 13°34 | 23°27 | 15°55 | 21°51 | 24°42 | 17°58 | 13°17 | 14°55 | 29°19 | 11°28 | M17 |
| T 18 | 1 46 57 | 24°51'04 | 14°14 | 10°40 | 24°18 | 14°17 | 23°33 | 16° 0 | 21°50 | 24°44 | 17°57 | 13°D16 | 14°52 | 29°25 | 11°26 | T 18 |
| W19 | 1 50 53 | 25°50'30 | 26°19 | 12° 9 | 25°33 | 15° 0 | 23°38 | 16° 6 | 21°48 | 24°46 | 17°57 | 13°17 | 14°49 | 29°32 | 11°24 | W19 |
| T 20 | 1 54 50 | 26°49'58 | 8 云 38 | 13°38 | 26°48 | 15°43 | 23°44 | 16°11 | 21°47 | 24°49 | 17°57 | 13°19 | 14°46 | 29°39 | 11°22 | T 20 |
| F 21 | 1 58 46 | 27°49'27 | 21°15 | 15° 7 | 28° 3 | 16°26 | 23°50 | 16°16 | 21°46 | 24°51 | 17°56 | 13°20 | 14°43 | 29°45 | 11°20 | F 21 |
| S 22 | 2 2 43 | 28°48'58 | 4≈14 | 16°34 | 29°18 | 17°10 | 23°56 | 16°22 | 21°45 | 24°53 | 17°56 | 13°R20 | 14°39 | 29°52 | 11°18 | S 22 |
| S 23 | 2 6 39 | 29°48'31 | 17°39 | 18° 1 | 0 M .33 | 17°53 | 24° 2 | 16°27 | 21°44 | 24°55 | 17°56 | 13°18 | 14°36 | 29°59 | 11°16 | S 23 |
| M24 | 2 10 36 | 0 M 48'05 | 1 米 33 | 19°27 | 1°48 | 18°37 | 24° 9 | 16°33 | 21°42 | 24°58 | 17°55 | 13°15 | 14°33 | OM 5 | 11°13 | M24 |
| T 25 | 2 14 33 | 1°47'42 | 15°55 | 20°52 | 3° 3 | 19°20 | 24°15 | 16°39 | 21°41 | 25° 0 | 17°55 | 13°10 | 14°30 | 0°12 | 11°11 | T 25 |
| W26 | 2 18 29 | 2°47'19 | 0 Υ 43 | 22°16 | 4°18 | 20° 4 | 24°22 | 16°44 | 21°40 | 25° 2 | 17°55 | 13° 4 | 14°27 | 0°19 | 11° 9 | W26 |
| T 27 | 2 22 26 | 3°46'59 | 15°50 | 23°40 | 5°33 | 20°48 | 24°29 | 16°50 | 21°38 | 25° 4 | 17°55 | 12°58 | 14°24 | 0°25 | 11° 6 | T 27 |
| F 28 | 2 26 22 | 4°46'41 | 1 8 7 | 25° 2 | 6°48 | 21°32 | 24°36 | 16°56 | 21°37 | 25° 6 | 17°55 | 12°52 | 14°20 | 0°32 | 11° 4 | F 28 |
| S 29 | 2 30 19 | 5°46'24 | 16°23 | 26°24 | 8° 4 | 22°16 | 24°43 | 17° 2 | 21°35 | 25° 9 | 17°55 | 12°48 | 14°17 | 0°39 | 11° 1 | S 29 |
| S 30 | 2 34 15 | 6°46'10 | 1 Ⅲ 27 | 27°45 | 9°19 | 23° 0 | 24°51 | 17° 8 | 21°34 | 25°11 | 17°55 | 12°46 | 14°14 | 0°46 | 10°58 | S 30 |
| M31 | 2 38 12 | 7 M 45'58 | 16耳12 | 29M 5 | 10 M 34 | 23 × 744 | 24 궁 58 | 17 √ 14 | 21 II 32 | 25 ♀ 13 | 17°D55 | 12°D46 | 14∏11 | 0 M 52 | 10耳56 | M31 |

Delta T = 266.64 sec

NOVEMBER 2281 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)f(| 卉 | В | n | v | Ç | ę, | Day |
|------|---------|-------------------|----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|---------------|-----------------|-----------------|----------------|--------|------|
| T 1 | 2 42 8 | 8ML45'48 | 0933 | 0 ∡ 123 | 11 M 49 | 24 × 128 | 25 ට 6 | 17 ₹ 20 | 21°R30 | 25 ≙ 15 | 17≈55 | 12 II 47 | 14 I I 8 | 0 M .59 | 10°R53 | T 1 |
| W 2 | 2 46 5 | 9°45'40 | 14°25 | 1°40 | 13° 4 | 25°12 | 25°14 | 17°26 | 21 II 29 | 25°17 | 17°55 | 12°48 | 14° 4 | 1° 6 | 10耳50 | W 2 |
| T 3 | 2 50 2 | 10°45'34 | 27°51 | 2°56 | 14°19 | 25°56 | 25°21 | 17°32 | 21°27 | 25°20 | 17°55 | 12°50 | 14° 1 | 1°12 | 10°48 | T 3 |
| F 4 | 2 53 58 | 11°45'30 | 10 Ω 52 | 4°11 | 15°34 | 26°41 | 25°30 | 17°38 | 21°25 | 25°22 | 17°55 | 12°R50 | 13°58 | 1°19 | 10°45 | F 4 |
| S 5 | 2 57 55 | 12°45'29 | 23°32 | 5°24 | 16°50 | 27°25 | 25°38 | 17°44 | 21°23 | 25°24 | 17°55 | 12°50 | 13°55 | 1°26 | 10°42 | S 5 |
| S 6 | 3 1 51 | 13°45'30 | 5 m 55 | 6°35 | 18° 5 | 28° 9 | 25°46 | 17°50 | 21°22 | 25°26 | 17°55 | 12°48 | 13°52 | 1°32 | 10°39 | S 6 |
| M 7 | 3 5 48 | 14°45'33 | 18° 4 | 7°44 | 19°20 | 28°54 | 25°55 | 17°57 | 21°20 | 25°28 | 17°55 | 12°45 | 13°49 | 1°39 | 10°36 | M 7 |
| T 8 | 3 9 44 | 15°45'37 | 0요 4 | 8°51 | 20°35 | 29°39 | 26° 3 | 18° 3 | 21°18 | 25°30 | 17°56 | 12°40 | 13°45 | 1°46 | 10°33 | T 8 |
| W 9 | 3 13 41 | 16°45'44 | 11°58 | 9°55 | 21°50 | 0 궁 23 | 26°12 | 18° 9 | 21°16 | 25°32 | 17°56 | 12°36 | 13°42 | 1°52 | 10°30 | W 9 |
| T 10 | 3 17 37 | 17°45'53 | 23°48 | 10°57 | 23° 5 | 1° 8 | 26°21 | 18°16 | 21°14 | 25°35 | 17°56 | 12°31 | 13°39 | 1°59 | 10°27 | T 10 |
| F 11 | 3 21 34 | 18°46'04 | 5 M ₃37 | 11°56 | 24°21 | 1°53 | 26°30 | 18°22 | 21°12 | 25°37 | 17°56 | 12°27 | 13°36 | 2° 6 | 10°24 | F 11 |
| S 12 | 3 25 31 | 19°46'17 | 17°28 | 12°51 | 25°36 | 2°38 | 26°39 | 18°29 | 21°10 | 25°39 | 17°57 | 12°24 | 13°33 | 2°12 | 10°21 | S 12 |
| S 13 | 3 29 27 | 20°46'31 | 29°21 | 13°43 | 26°51 | 3°23 | 26°48 | 18°35 | 21° 8 | 25°41 | 17°57 | 12°22 | 13°30 | 2°19 | 10°17 | S 13 |
| M14 | 3 33 24 | 21°46'47 | 11 ~ 20 | 14°30 | 28° 6 | 4° 8 | 26°58 | 18°42 | 21° 6 | 25°43 | 17°57 | 12°D22 | 13°26 | 2°26 | 10°14 | M14 |
| T 15 | 3 37 20 | 22°47'05 | 2 <u>3</u> °25 | 15°12 | 29°22 | 4°53 | 27° 7 | 18°48 | 21° 4 | 25°45 | 17°58 | 12°22 | 13°23 | 2°32 | 10°11 | T 15 |
| W16 | 3 41 17 | 23°47'25 | 5 る 40 | 15°50 | 0 ∡ 37 | 5°38 | 27°17 | 18°55 | 21° 1 | 25°47 | 17°58 | 12°23 | 13°20 | 2°39 | 10° 8 | W16 |
| T 17 | 3 45 13 | 24°47'46 | 18° 7 | 16°21 | 1°52 | 6°23 | 27°27 | 19° 2 | 20°59 | 25°49 | 17°59 | 12°25 | 13°17 | 2°46 | 10° 5 | T 17 |
| F 18 | 3 49 10 | 25°48'08 | 0≈49 | 16°45 | 3° 7 | 7° 8 | 27°36 | 19° 8 | 20°57 | 25°51 | 17°59 | 12°26 | 13°14 | 2°52 | 10° 1 | F 18 |
| S 19 | 3 53 6 | 26°48'32 | 13°48 | 17° 2 | 4°22 | 7°54 | 27°46 | 19°15 | 20°55 | 25°53 | 18° 0 | 12°27 | 13°10 | 2°59 | 9°58 | S 19 |
| S 20 | 3 57 3 | 27°48'57 | 27° 9 | 17°11 | 5°38 | 8°39 | 27°57 | 19°22 | 20°52 | 25°55 | 18° 0 | 12°R27 | 13° 7 | 3° 6 | 9°55 | S 20 |
| M21 | 4 1 0 | 28°49'24 | 10 米 52 | 17°R11 | 6°53 | 9°25 | 28° 7 | 19°29 | 20°50 | 25°57 | 18° 1 | 12°27 | 13° 4 | 3°12 | 9°51 | M21 |
| T 22 | 4 4 56 | 29°49'51 | 24°59 | 17° 2 | 8° 8 | 10°10 | 28°17 | 19°35 | 20°48 | 25°59 | 18° 1 | 12°26 | 13° 1 | 3°19 | 9°48 | T 22 |
| W23 | 4 8 53 | 0 ₹ 50′20 | 9 Υ 29 | 16°42 | 9°23 | 10°56 | 28°27 | 19°42 | 20°46 | 26° 1 | 18° 2 | 12°25 | 12°58 | 3°26 | 9°45 | W23 |
| T 24 | 4 12 49 | 1°50'50 | 24°17 | 16°12 | 10°39 | 11°41 | 28°38 | 19°49 | 20°43 | 26° 3 | 18° 2 | 12°24 | 12°55 | 3°33 | 9°41 | T 24 |
| F 25 | 4 16 46 | 2°51'22 | 9 8 17 | 15°32 | 11°54 | 12°27 | 28°49 | 19°56 | 20°41 | 26° 5 | 18° 3 | 12°22 | 12°51 | 3°39 | 9°38 | F 25 |
| S 26 | 4 20 42 | 3°51'55 | 24°22 | 14°41 | 13° 9 | 13°13 | 28°59 | 20° 3 | 20°38 | 26° 6 | 18° 4 | 12°22 | 12°48 | 3°46 | 9°34 | S 26 |
| S 27 | 4 24 39 | 4°52'29 | 9∏22 | 13°41 | 14°24 | 13°58 | 29°10 | 20°10 | 20°36 | 26° 8 | 18° 5 | 12°D21 | 12°45 | 3°53 | 9°31 | S 27 |
| M28 | 4 28 35 | 5°53'05 | 24° 9 | 12°32 | 15°40 | 14°44 | 29°21 | 20°17 | 20°34 | 26°10 | 18° 5 | 12°21 | 12°42 | 3°59 | 9°27 | M28 |
| T 29 | 4 32 32 | 6°53'43 | 8936 | 11°16 | 16°55 | 15°30 | 29°32 | 20°24 | 20°31 | 26°12 | 18° 6 | 12°22 | 12°39 | 4° 6 | 9°24 | T 29 |
| W30 | 4 36 29 | 7 ,₹ 54'22 | 22938 | 9 才 56 | 18 × 10 | 16 궁 16 | 29 궁 43 | 20 × 31 | 20耳29 | 26 ♀ 14 | 18 ≈ 7 | 12 II 22 | 12 II 36 | 4 m .13 | 9∏21 | W30 |

Delta T = 266.77 sec

DECEMBER 2281 00:00 UT

| Day | Sid.t | \odot | D | φ | φ | o ⁷ | 4 | ħ |)ұ(| ¥ | 2 | n | Ω | ţ | Š | Day |
|------|---------|-------------------|---------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|------|
| T 1 | 4 40 25 | 8 ₹ ¹55'02 | 6 Ω 14 | 8°R34 | 19 ∡ ²25 | 17る 2 | 29 る 55 | 20 ∡ 38 | 20°R26 | 26 ₽ 16 | 18 ≈ 8 | 12 Ⅲ 23 | 12 Ⅲ 32 | 4 M .19 | 9°R17 | T 1 |
| F 2 | 4 44 22 | 9°55'44 | 19°23 | 7 ,₹ 12 | 20°40 | 17°48 | 0≈ 6 | 20°45 | 20∏24 | 26°17 | 18° 8 | 12°23 | 12°29 | 4°26 | 9 Ⅱ 14 | F 2 |
| S 3 | 4 48 18 | 10°56'28 | 2MD 9 | 5°54 | 21°56 | 18°34 | 0°17 | 20°52 | 20°21 | 26°19 | 18° 9 | 12°23 | 12°26 | 4°33 | 9°10 | S 3 |
| S 4 | 4 52 15 | 11°57'13 | 14°34 | 4°42 | 23°11 | 19°20 | 0°29 | 20°59 | 20°19 | 26°21 | 18°10 | 12°23 | 12°23 | 4°39 | 9° 7 | S 4 |
| M 5 | 4 56 11 | 12°57'59 | 26°43 | 3°38 | 24°26 | 20° 6 | 0°41 | 21° 6 | 20°16 | 26°22 | 18°11 | 12°23 | 12°20 | 4°46 | 9° 3 | M 5 |
| T 6 | 5 0 8 | 13°58'47 | 8 ≏ 41 | 2°44 | 25°41 | 20°53 | 0°52 | 21°13 | 20°14 | 26°24 | 18°12 | 12°23 | 12°16 | 4°53 | 9° 0 | T 6 |
| W 7 | 5 4 4 | 14°59'37 | 20°33 | 2° 1 | 26°57 | 21°39 | 1° 4 | 21°20 | 20°11 | 26°26 | 18°13 | 12°23 | 12°13 | 4°59 | 8°56 | W 7 |
| T 8 | 5 8 1 | 16° 0'28 | 2 M 21 | 1°29 | 28°12 | 22°25 | 1°16 | 21°27 | 20° 9 | 26°27 | 18°14 | 12°24 | 12°10 | 5° 6 | 8°53 | T 8 |
| F 9 | 5 11 58 | 17° 1'20 | 14°11 | 1° 9 | 2 <u>9</u> °27 | 23°12 | 1°28 | 21°34 | 20° 6 | 26°29 | 18°15 | 12°24 | 12° 7 | 5°13 | 8°50 | F 9 |
| S 10 | 5 15 54 | 18° 2'13 | 26° 5 | 1°D 0 | 0 궁 42 | 23°58 | 1°40 | 21°41 | 20° 3 | 26°30 | 18°16 | 12°25 | 12° 4 | 5°19 | 8°46 | S 10 |
| S 11 | 5 19 51 | 19° 3'08 | 8 才 6 | 1° 1 | 1°58 | 24°44 | 1°52 | 21°48 | 20° 1 | 26°32 | 18°17 | 12°R25 | 12° 1 | 5°26 | 8°43 | S 11 |
| M12 | 5 23 47 | 20° 4'04 | 20°15 | 1°13 | 3°13 | 25°31 | 2° 4 | 21°55 | 19°58 | 26°33 | 18°18 | 12°25 | 11°57 | 5°33 | 8°39 | M12 |
| T 13 | 5 27 44 | 21° 5'01 | 2 ප 36 | 1°33 | 4°28 | 26°17 | 2°17 | 22° 2 | 19°56 | 26°35 | 18°19 | 12°25 | 11°54 | 5°39 | 8°36 | T 13 |
| W14 | 5 31 40 | 22° 5'58 | 15° 7 | 2° 2 | 5°43 | 27° 4 | 2°29 | 22° 9 | 19°53 | 26°36 | 18°20 | 12°24 | 11°51 | 5°46 | 8°33 | W14 |
| T 15 | 5 35 37 | 23° 6'57 | 27°52 | 2°39 | 6°59 | 27°51 | 2°41 | 22°16 | 19°51 | 26°38 | 18°22 | 12°22 | 11°48 | 5°53 | 8°29 | T 15 |
| F 16 | 5 39 34 | 24° 7'56 | 10≈49 | 3°22 | 8°14 | 28°37 | 2°54 | 22°23 | 19°48 | 26°39 | 18°23 | 12°21 | 11°45 | 5°59 | 8°26 | F 16 |
| S 17 | 5 43 30 | 25° 8'56 | 24° 1 | 4°11 | 9°29 | 29°24 | 3° 7 | 22°31 | 19°46 | 26°41 | 18°24 | 12°19 | 11°42 | 6° 6 | 8°23 | S 17 |
| S 18 | 5 47 27 | 26° 9'56 | 7 ∺ 28 | 5° 5 | 10°44 | 0≈11 | 3°19 | 22°38 | 19°43 | 26°42 | 18°25 | 12°18 | 11°38 | 6°13 | 8°19 | S 18 |
| M19 | 5 51 23 | 27°10'57 | 21° 9 | 6° 4 | 12° 0 | 0°57 | 3°32 | 22°45 | 19°41 | 26°43 | 18°26 | 12°D17 | 11°35 | 6°19 | 8°16 | M19 |
| T 20 | 5 55 20 | 28°11'58 | 5 Υ 6 | 7° 6 | 13°15 | 1°44 | 3°45 | 22°52 | 19°38 | 26°45 | 18°28 | 12°17 | 11°32 | 6°26 | 8°13 | T 20 |
| W21 | 5 59 16 | 2 <u>9</u> °13'00 | 19°18 | 8°12 | 14°30 | 2°31 | 3°58 | 22°59 | 19°36 | 26°46 | 18°29 | 12°18 | 11°29 | 6°33 | 8°10 | W21 |
| T 22 | 6 3 13 | 0 궁 14'02 | 3842 | 9°22 | 15°45 | 3°18 | 4°10 | 23° 6 | 19°33 | 26°47 | 18°30 | 12°19 | 11°26 | 6°39 | 8° 7 | T 22 |
| F 23 | 6 7 9 | 1°15'04 | 18°16 | 10°33 | 17° 0 | 4° 5 | 4°23 | 23°13 | 19°31 | 26°48 | 18°32 | 12°20 | 11°22 | 6°46 | 8° 4 | F 23 |
| S 24 | 6 11 6 | 2°16'07 | 2Д55 | 11°47 | 18°16 | 4°52 | 4°36 | 23°20 | 19°28 | 26°49 | 18°33 | 12°21 | 11°19 | 6°53 | 8° 1 | S 24 |
| S 25 | 6 15 3 | 3°17'10 | 17°34 | 13° 4 | 19°31 | 5°39 | 4°49 | 23°27 | 19°26 | 26°51 | 18°34 | 12°R21 | 11°16 | 6°59 | 7°58 | S 25 |
| M26 | 6 18 59 | 4°18'14 | 299 5 | 14°22 | 20°46 | 6°25 | 5° 3 | 23°34 | 19°23 | 26°52 | 18°36 | 12°20 | 11°13 | 7° 6 | 7°55 | M26 |
| T 27 | 6 22 56 | 5°19'19 | 16°24 | 15°41 | 22° 1 | 7°12 | 5°16 | 23°41 | 19°21 | 26°53 | 18°37 | 12°18 | 11°10 | 7°13 | 7°52 | T 27 |
| W28 | 6 26 52 | 6°20'23 | 0 Ω 24 | 17° 2 | 23°16 | 7°59 | 5°29 | 23°48 | 19°18 | 26°54 | 18°39 | 12°15 | 11° 7 | 7°19 | 7°49 | W28 |
| T 29 | 6 30 49 | 7°21'29 | 14° 2 | 18°24 | 24°31 | 8°46 | 5°42 | 23°55 | 19°16 | 26°55 | 18°40 | 12°11 | 11° 3 | 7°26 | 7°46 | T 29 |
| F 30 | 6 34 45 | 8°22'35 | 27°16 | 19°47 | 25°46 | 9°34 | 5°56 | 24° 2 | 19°14 | 26°56 | 18°41 | 12° 7 | 11° 0 | 7°33 | 7°43 | F 30 |
| S 31 | 6 38 42 | 9 ට 23'41 | 10 m 7 | 21 ~ 11 | 27る 2 | 10≈21 | 6≈ 9 | 24 ×7 9 | 19 Ⅱ 11 | 26 ♀ 57 | 18 ≈ 43 | 12 II 3 | 10 Ⅱ 57 | 7 M .39 | 7 Ⅱ 40 | S 31 |

Delta T = 266.90 sec