

SWISS EPHEMERIS for the year 1729
heliocentric

JANUARY 1729

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|---------|------------------------|--------------------|---------------------|---------------------|--------------------|--------------------|--------------------|---------------------|--------------------|-------------------|---------------------|
| S 1 | 6 42 23 | 10 ⁵ 40'30 | 10 ⁵ 38 | 26 ⁵ 5 | 27 ⁷ 56 | 20 ⁵ 52 | 1 ⁵ 54 | 27 ⁵ 56 | 23 ¹¹ 12 | 9 ¹¹ 31 | 8 ⁵ 27 | 19 ¹⁹ 51 |
| S 2 | 6 46 20 | 11°41'42 | 11°37 | 29°16 | 29°31 | 21°30 | 1°59 | 27°58 | 23°13 | 9°31 | 8°27 | 19°51 |
| M 3 | 6 50 16 | 12°42'53 | 12°37 | 2 ¹¹ 23 | 1 ¹⁹ 7 | 22° 8 | 2° 4 | 28° 0 | 23°14 | 9°31 | 8°28 | 19°52 |
| T 4 | 6 54 13 | 13°44'04 | 13°37 | 5°27 | 2°42 | 22°46 | 2° 9 | 28° 2 | 23°14 | 9°32 | 8°28 | 19°53 |
| W 5 | 6 58 10 | 14°45'15 | 14°37 | 8°29 | 4°18 | 23°24 | 2°14 | 28° 4 | 23°15 | 9°32 | 8°29 | 19°53 |
| T 6 | 7 2 6 | 15°46'24 | 15°37 | 11°27 | 5°53 | 24° 2 | 2°19 | 28° 6 | 23°16 | 9°32 | 8°29 | 19°54 |
| F 7 | 7 6 3 | 16°47'34 | 16°38 | 14°23 | 7°29 | 24°40 | 2°24 | 28° 8 | 23°16 | 9°33 | 8°29 | 19°54 |
| S 8 | 7 9 59 | 17°48'43 | 17°39 | 17°17 | 9° 5 | 25°18 | 2°29 | 28°10 | 23°17 | 9°33 | 8°30 | 19°55 |
| S 9 | 7 13 56 | 18°49'51 | 18°41 | 20° 8 | 10°40 | 25°57 | 2°34 | 28°12 | 23°18 | 9°34 | 8°30 | 19°56 |
| M10 | 7 17 52 | 19°50'58 | 19°43 | 22°59 | 12°16 | 26°35 | 2°39 | 28°13 | 23°19 | 9°34 | 8°31 | 19°56 |
| T 11 | 7 21 49 | 20°52'05 | 20°45 | 25°47 | 13°52 | 27°13 | 2°44 | 28°15 | 23°19 | 9°34 | 8°31 | 19°57 |
| W12 | 7 25 45 | 21°53'12 | 21°47 | 28°35 | 15°27 | 27°51 | 2°50 | 28°17 | 23°20 | 9°35 | 8°31 | 19°58 |
| T 13 | 7 29 42 | 22°54'17 | 22°50 | 1 ¹⁷ 21 | 17° 3 | 28°29 | 2°55 | 28°19 | 23°21 | 9°35 | 8°32 | 19°58 |
| F 14 | 7 33 39 | 23°55'22 | 23°53 | 4° 7 | 18°39 | 29° 7 | 3° 0 | 28°21 | 23°22 | 9°35 | 8°32 | 19°59 |
| S 15 | 7 37 35 | 24°56'27 | 24°56 | 6°52 | 20°14 | 29°45 | 3° 5 | 28°23 | 23°22 | 9°36 | 8°33 | 20° 0 |
| S 16 | 7 41 32 | 25°57'30 | 25°59 | 9°37 | 21°50 | 0 ¹¹ 23 | 3°10 | 28°25 | 23°23 | 9°36 | 8°33 | 20° 0 |
| M17 | 7 45 28 | 26°58'33 | 27° 2 | 12°22 | 23°26 | 1° 1 | 3°15 | 28°27 | 23°24 | 9°37 | 8°33 | 20° 1 |
| T 18 | 7 49 25 | 27°59'36 | 28° 4 | 15° 6 | 25° 2 | 1°39 | 3°20 | 28°29 | 23°25 | 9°37 | 8°34 | 20° 2 |
| W19 | 7 53 21 | 29° 0'38 | 29° 7 | 17°51 | 26°38 | 2°17 | 3°25 | 28°31 | 23°25 | 9°37 | 8°34 | 20° 2 |
| T 20 | 7 57 18 | 0 ¹¹ 1'39 | 0 ¹¹ 9 | 20°37 | 28°14 | 2°55 | 3°30 | 28°33 | 23°26 | 9°38 | 8°35 | 20° 3 |
| F 21 | 8 1 14 | 1° 2'39 | 1°11 | 23°23 | 29°50 | 3°33 | 3°35 | 28°34 | 23°27 | 9°38 | 8°35 | 20° 3 |
| S 22 | 8 5 11 | 2° 3'40 | 2°12 | 26°10 | 1 ¹⁸ 26 | 4°12 | 3°40 | 28°36 | 23°27 | 9°38 | 8°35 | 20° 4 |
| S 23 | 8 9 8 | 3° 4'39 | 3°13 | 28°58 | 3° 2 | 4°50 | 3°45 | 28°38 | 23°28 | 9°39 | 8°36 | 20° 5 |
| M24 | 8 13 4 | 4° 5'38 | 4°14 | 1 ¹³ 47 | 4°38 | 5°28 | 3°50 | 28°40 | 23°29 | 9°39 | 8°36 | 20° 5 |
| T 25 | 8 17 1 | 5° 6'37 | 5°14 | 4°38 | 6°14 | 6° 6 | 3°55 | 28°42 | 23°30 | 9°39 | 8°37 | 20° 6 |
| W26 | 8 20 57 | 6° 7'35 | 6°13 | 7°30 | 7°50 | 6°44 | 4° 0 | 28°44 | 23°30 | 9°40 | 8°37 | 20° 7 |
| T 27 | 8 24 54 | 7° 8'32 | 7°13 | 10°25 | 9°26 | 7°22 | 4° 5 | 28°46 | 23°31 | 9°40 | 8°37 | 20° 7 |
| F 28 | 8 28 50 | 8° 9'28 | 8°12 | 13°21 | 11° 2 | 8° 0 | 4°10 | 28°48 | 23°32 | 9°41 | 8°38 | 20° 8 |
| S 29 | 8 32 47 | 9°10'23 | 9°11 | 16°20 | 12°38 | 8°38 | 4°15 | 28°50 | 23°33 | 9°41 | 8°38 | 20° 9 |
| S 30 | 8 36 43 | 10°11'17 | 10°10 | 19°22 | 14°14 | 9°16 | 4°21 | 28°52 | 23°33 | 9°41 | 8°39 | 20° 9 |
| MB1 | 8 40 40 | 11 ¹¹ 12'10 | 11 ¹¹ 9 | 22 ¹³ 27 | 15 ¹⁸ 51 | 9 ¹¹ 54 | 4 ²⁶ 26 | 28 ⁵ 54 | 23 ¹¹ 34 | 9 ¹¹ 42 | 8 ⁵ 39 | 20 ¹⁹ 10 |

Delta T = 10.07 sec.

Greg. Calendar

FEBRUARY 1729

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|------------------------|--------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|--------------------|-------------------|---------------------|
| T 1 | 8 44 37 | 12 ¹¹ 13'01 | 12 ¹¹ 8 | 25 ¹³ 35 | 17 ¹⁸ 27 | 10 ¹¹ 32 | 4 ²⁶ 31 | 28 ⁵ 55 | 23 ¹¹ 35 | 9 ¹¹ 42 | 8 ⁵ 40 | 20 ¹⁹ 10 |
| W 2 | 8 48 33 | 13°13'52 | 13° 7 | 28°46 | 19° 3 | 11°10 | 4°36 | 28°57 | 23°36 | 9°42 | 8°40 | 20°11 |
| T 3 | 8 52 30 | 14°14'40 | 14° 7 | 2 ²⁸ 2 | 20°39 | 11°48 | 4°41 | 28°59 | 23°36 | 9°43 | 8°40 | 20°12 |
| F 4 | 8 56 26 | 15°15'27 | 15° 7 | 5°21 | 22°16 | 12°26 | 4°46 | 29° 1 | 23°37 | 9°43 | 8°41 | 20°12 |
| S 5 | 9 0 23 | 16°16'13 | 16° 7 | 8°45 | 23°52 | 13° 4 | 4°51 | 29° 3 | 23°38 | 9°44 | 8°41 | 20°13 |
| S 6 | 9 4 19 | 17°16'57 | 17° 8 | 12°13 | 25°29 | 13°42 | 4°56 | 29° 5 | 23°38 | 9°44 | 8°42 | 20°14 |
| M 7 | 9 8 16 | 18°17'40 | 18° 8 | 15°47 | 27° 5 | 14°20 | 5° 1 | 29° 7 | 23°39 | 9°44 | 8°42 | 20°14 |
| T 8 | 9 12 12 | 19°18'21 | 19°10 | 19°26 | 28°41 | 14°58 | 5° 6 | 29° 9 | 23°40 | 9°45 | 8°42 | 20°15 |
| W 9 | 9 16 9 | 20°19'00 | 20°11 | 23°11 | 0 ¹¹ 18 | 15°35 | 5°11 | 29°11 | 23°41 | 9°45 | 8°43 | 20°16 |
| T 10 | 9 20 6 | 21°19'38 | 21°13 | 27° 2 | 1°54 | 16°13 | 5°16 | 29°13 | 23°41 | 9°45 | 8°43 | 20°16 |
| F 11 | 9 24 2 | 22°20'14 | 22°15 | 0 ¹¹ 59 | 3°31 | 16°51 | 5°21 | 29°14 | 23°42 | 9°46 | 8°44 | 20°17 |
| S 12 | 9 27 59 | 23°20'48 | 23°17 | 5° 4 | 5° 8 | 17°29 | 5°26 | 29°16 | 23°43 | 9°46 | 8°44 | 20°18 |
| S 13 | 9 31 55 | 24°21'21 | 24°20 | 9°15 | 6°44 | 18° 7 | 5°31 | 29°18 | 23°44 | 9°46 | 8°44 | 20°18 |
| M14 | 9 35 52 | 25°21'52 | 25°22 | 13°35 | 8°21 | 18°45 | 5°36 | 29°20 | 23°44 | 9°47 | 8°45 | 20°19 |
| T 15 | 9 39 48 | 26°22'21 | 26°25 | 18° 2 | 9°57 | 19°22 | 5°41 | 29°22 | 23°45 | 9°47 | 8°45 | 20°19 |
| W16 | 9 43 45 | 27°22'49 | 27°27 | 22°38 | 11°34 | 20° 0 | 5°46 | 29°24 | 23°46 | 9°48 | 8°46 | 20°20 |
| T 17 | 9 47 41 | 28°23'15 | 28°29 | 27°22 | 13°11 | 20°38 | 5°51 | 29°26 | 23°47 | 9°48 | 8°46 | 20°21 |
| F 18 | 9 51 38 | 29°23'40 | 29°31 | 2 ¹⁹ 15 | 14°48 | 21°15 | 5°56 | 29°28 | 23°47 | 9°48 | 8°46 | 20°21 |
| S 19 | 9 55 35 | 0 ¹¹ 24'04 | 0 ¹¹ 32 | 7°18 | 16°24 | 21°53 | 6° 1 | 29°30 | 23°48 | 9°49 | 8°47 | 20°22 |
| S 20 | 9 59 31 | 1°24'26 | 1°33 | 12°29 | 18° 1 | 22°31 | 6° 6 | 29°32 | 23°49 | 9°49 | 8°47 | 20°23 |
| M21 | 10 3 28 | 2°24'47 | 2°33 | 17°49 | 19°38 | 23° 8 | 6°11 | 29°34 | 23°49 | 9°49 | 8°48 | 20°23 |
| T 22 | 10 7 24 | 3°25'07 | 3°33 | 23°19 | 21°15 | 23°46 | 6°16 | 29°35 | 23°50 | 9°50 | 8°48 | 20°24 |
| W23 | 10 11 21 | 4°25'25 | 4°33 | 28°57 | 22°52 | 24°23 | 6°21 | 29°37 | 23°51 | 9°50 | 8°48 | 20°25 |
| T 24 | 10 15 17 | 5°25'42 | 5°32 | 4 ¹⁸ 44 | 24°29 | 25° 1 | 6°26 | 29°39 | 23°52 | 9°51 | 8°49 | 20°25 |
| F 25 | 10 19 14 | 6°25'57 | 6°31 | 10°38 | 26° 6 | 25°39 | 6°31 | 29°41 | 23°52 | 9°51 | 8°49 | 20°26 |
| S 26 | 10 23 10 | 7°26'10 | 7°30 | 16°39 | 27°43 | 26°16 | 6°37 | 29°43 | 23°53 | 9°51 | 8°50 | 20°27 |
| S 27 | 10 27 7 | 8°26'22 | 8°28 | 22°46 | 29°20 | 26°53 | 6°42 | 29°45 | 23°54 | 9°52 | 8°50 | 20°27 |
| M28 | 10 31 4 | 9 ¹¹ 26'32 | 9 ¹¹ 26 | 28 ¹⁸ 59 | 0 ⁵ 57 | 27 ¹¹ 31 | 6 ²⁶ 47 | 29 ⁵ 47 | 23 ¹¹ 55 | 9 ¹¹ 52 | 8 ⁵ 50 | 20 ¹⁹ 28 |

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Greg. Calendar

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SWISS EPHEMERIS for the year 1729
heliocentric

MARCH 1729

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♀ | ♋ | ♌ | ♍ |
|------|----------|-----------------------|--------------------|----------------------|--------------------|--------------------|-------------------|--------------------|--------------------|-------------------|-------------------|--------------------|---|
| T 1 | 10 35 0 | 10 ^h 26'40 | 10 ^h 25 | 5 ^h 11 14 | 2 ^h 34 | 28 ^h 8 | 6 ^h 52 | 29 ^h 49 | 23 ^h 55 | 9 ^h 52 | 8 ^h 51 | 20 ^h 28 | |
| W 2 | 10 38 57 | 11 ^h 26'46 | 11 ^h 23 | 11 ^h 33 | 4 ^h 11 | 28 ^h 46 | 6 ^h 57 | 29 ^h 51 | 23 ^h 56 | 9 ^h 53 | 8 ^h 51 | 20 ^h 29 | |
| T 3 | 10 42 53 | 12 ^h 26'50 | 12 ^h 21 | 17 ^h 52 | 5 ^h 48 | 29 ^h 23 | 7 ^h 2 | 29 ^h 53 | 23 ^h 57 | 9 ^h 53 | 8 ^h 52 | 20 ^h 30 | |
| F 4 | 10 46 50 | 13 ^h 26'52 | 13 ^h 20 | 24 ^h 11 | 7 ^h 25 | 0 ^h 0 | 7 ^h 7 | 29 ^h 55 | 23 ^h 58 | 9 ^h 53 | 8 ^h 52 | 20 ^h 30 | |
| S 5 | 10 50 46 | 14 ^h 26'52 | 14 ^h 19 | 0 ^h 27 | 9 ^h 2 | 0 ^h 37 | 7 ^h 12 | 29 ^h 56 | 23 ^h 58 | 9 ^h 54 | 8 ^h 52 | 20 ^h 31 | |
| S 6 | 10 54 43 | 15 ^h 26'49 | 15 ^h 18 | 6 ^h 40 | 10 ^h 40 | 1 ^h 15 | 7 ^h 17 | 29 ^h 58 | 23 ^h 59 | 9 ^h 54 | 8 ^h 53 | 20 ^h 32 | |
| M 7 | 10 58 39 | 16 ^h 26'45 | 16 ^h 18 | 12 ^h 48 | 12 ^h 17 | 1 ^h 52 | 7 ^h 22 | 0 ^h 0 | 24 ^h 0 | 9 ^h 55 | 8 ^h 53 | 20 ^h 32 | |
| T 8 | 11 2 36 | 17 ^h 26'39 | 17 ^h 17 | 18 ^h 49 | 13 ^h 54 | 2 ^h 29 | 7 ^h 27 | 0 ^h 2 | 24 ^h 0 | 9 ^h 55 | 8 ^h 54 | 20 ^h 33 | |
| W 9 | 11 6 33 | 18 ^h 26'30 | 18 ^h 18 | 24 ^h 44 | 15 ^h 31 | 3 ^h 6 | 7 ^h 32 | 0 ^h 4 | 24 ^h 1 | 9 ^h 55 | 8 ^h 54 | 20 ^h 34 | |
| T 10 | 11 10 29 | 19 ^h 26'19 | 19 ^h 18 | 0 ^h 31 | 17 ^h 9 | 3 ^h 43 | 7 ^h 37 | 0 ^h 6 | 24 ^h 2 | 9 ^h 56 | 8 ^h 55 | 20 ^h 34 | |
| F 11 | 11 14 26 | 20 ^h 26'06 | 20 ^h 19 | 6 ^h 8 | 18 ^h 46 | 4 ^h 20 | 7 ^h 42 | 0 ^h 8 | 24 ^h 3 | 9 ^h 56 | 8 ^h 55 | 20 ^h 35 | |
| S 12 | 11 18 22 | 21 ^h 25'51 | 21 ^h 20 | 11 ^h 37 | 20 ^h 23 | 4 ^h 57 | 7 ^h 47 | 0 ^h 10 | 24 ^h 3 | 9 ^h 56 | 8 ^h 55 | 20 ^h 35 | |
| S 13 | 11 22 19 | 22 ^h 25'33 | 22 ^h 21 | 16 ^h 56 | 22 ^h 1 | 5 ^h 34 | 7 ^h 52 | 0 ^h 12 | 24 ^h 4 | 9 ^h 57 | 8 ^h 56 | 20 ^h 36 | |
| M14 | 11 26 15 | 23 ^h 25'13 | 23 ^h 23 | 22 ^h 5 | 23 ^h 38 | 6 ^h 11 | 7 ^h 57 | 0 ^h 14 | 24 ^h 5 | 9 ^h 57 | 8 ^h 56 | 20 ^h 37 | |
| T 15 | 11 30 12 | 24 ^h 24'51 | 24 ^h 24 | 27 ^h 5 | 25 ^h 15 | 6 ^h 48 | 8 ^h 2 | 0 ^h 16 | 24 ^h 6 | 9 ^h 57 | 8 ^h 57 | 20 ^h 37 | |
| W16 | 11 34 8 | 25 ^h 24'27 | 25 ^h 26 | 1 ^h 55 | 26 ^h 53 | 7 ^h 25 | 8 ^h 7 | 0 ^h 17 | 24 ^h 6 | 9 ^h 58 | 8 ^h 57 | 20 ^h 38 | |
| T 17 | 11 38 5 | 26 ^h 24'01 | 26 ^h 27 | 6 ^h 36 | 28 ^h 30 | 8 ^h 1 | 8 ^h 12 | 0 ^h 19 | 24 ^h 7 | 9 ^h 58 | 8 ^h 57 | 20 ^h 39 | |
| F 18 | 11 42 1 | 27 ^h 23'33 | 27 ^h 28 | 11 ^h 8 | 0 ^h 8 | 8 ^h 38 | 8 ^h 17 | 0 ^h 21 | 24 ^h 8 | 9 ^h 59 | 8 ^h 58 | 20 ^h 39 | |
| S 19 | 11 45 58 | 28 ^h 23'03 | 28 ^h 29 | 15 ^h 31 | 1 ^h 45 | 9 ^h 15 | 8 ^h 22 | 0 ^h 23 | 24 ^h 8 | 9 ^h 59 | 8 ^h 58 | 20 ^h 40 | |
| S 20 | 11 49 55 | 29 ^h 22'32 | 29 ^h 30 | 19 ^h 46 | 3 ^h 23 | 9 ^h 52 | 8 ^h 27 | 0 ^h 25 | 24 ^h 9 | 9 ^h 59 | 8 ^h 59 | 20 ^h 41 | |
| M21 | 11 53 51 | 0 ^h 21'58 | 0 ^h 30 | 23 ^h 53 | 5 ^h 0 | 10 ^h 28 | 8 ^h 32 | 0 ^h 27 | 24 ^h 10 | 10 ^h 0 | 8 ^h 59 | 20 ^h 41 | |
| T 22 | 11 57 48 | 1 ^h 21'24 | 1 ^h 30 | 27 ^h 53 | 6 ^h 38 | 11 ^h 5 | 8 ^h 37 | 0 ^h 29 | 24 ^h 11 | 10 ^h 0 | 8 ^h 59 | 20 ^h 42 | |
| W23 | 12 1 44 | 2 ^h 20'47 | 2 ^h 29 | 1 ^h 46 | 8 ^h 15 | 11 ^h 41 | 8 ^h 42 | 0 ^h 31 | 24 ^h 11 | 10 ^h 0 | 9 ^h 0 | 20 ^h 43 | |
| T 24 | 12 5 41 | 3 ^h 20'08 | 3 ^h 28 | 5 ^h 31 | 9 ^h 53 | 12 ^h 18 | 8 ^h 47 | 0 ^h 33 | 24 ^h 12 | 10 ^h 1 | 9 ^h 0 | 20 ^h 43 | |
| F 25 | 12 9 37 | 4 ^h 19'28 | 4 ^h 27 | 9 ^h 11 | 11 ^h 30 | 12 ^h 54 | 8 ^h 52 | 0 ^h 35 | 24 ^h 13 | 10 ^h 1 | 9 ^h 1 | 20 ^h 44 | |
| S 26 | 12 13 34 | 5 ^h 18'46 | 5 ^h 25 | 12 ^h 45 | 13 ^h 8 | 13 ^h 31 | 8 ^h 57 | 0 ^h 37 | 24 ^h 14 | 10 ^h 2 | 9 ^h 1 | 20 ^h 44 | |
| S 27 | 12 17 31 | 6 ^h 18'02 | 6 ^h 22 | 16 ^h 14 | 14 ^h 45 | 14 ^h 7 | 9 ^h 2 | 0 ^h 38 | 24 ^h 14 | 10 ^h 2 | 9 ^h 1 | 20 ^h 45 | |
| M28 | 12 21 27 | 7 ^h 17'16 | 7 ^h 20 | 19 ^h 37 | 16 ^h 23 | 14 ^h 43 | 9 ^h 7 | 0 ^h 40 | 24 ^h 15 | 10 ^h 2 | 9 ^h 2 | 20 ^h 46 | |
| T 29 | 12 25 24 | 8 ^h 16'28 | 8 ^h 18 | 22 ^h 56 | 18 ^h 0 | 15 ^h 20 | 9 ^h 12 | 0 ^h 42 | 24 ^h 16 | 10 ^h 3 | 9 ^h 2 | 20 ^h 46 | |
| W30 | 12 29 20 | 9 ^h 15'38 | 9 ^h 15 | 26 ^h 11 | 19 ^h 38 | 15 ^h 56 | 9 ^h 17 | 0 ^h 44 | 24 ^h 17 | 10 ^h 3 | 9 ^h 3 | 20 ^h 47 | |
| T 31 | 12 33 17 | 10 ^h 14'46 | 10 ^h 12 | 29 ^h 22 | 21 ^h 15 | 16 ^h 32 | 9 ^h 22 | 0 ^h 46 | 24 ^h 17 | 10 ^h 3 | 9 ^h 3 | 20 ^h 48 | |

Delta T = 10.07 sec.

Greg. Calendar

APRIL 1729

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♀ | ♋ | ♌ | ♍ |
|------|----------|------------------------|---------------------|----------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|---|
| F 1 | 12 37 13 | 11 ^h 13'51 | 11 ^h 10 | 2 ^h 11 29 | 22 ^h 53 | 17 ^h 08 | 9 ^h 27 | 0 ^h 48 | 24 ^h 18 | 10 ^h 4 | 9 ^h 3 | 20 ^h 48 | |
| S 2 | 12 41 10 | 12 ^h 12'55 | 12 ^h 7 | 5 ^h 33 | 24 ^h 31 | 17 ^h 44 | 9 ^h 32 | 0 ^h 50 | 24 ^h 19 | 10 ^h 4 | 9 ^h 4 | 20 ^h 49 | |
| S 3 | 12 45 6 | 13 ^h 11'57 | 13 ^h 5 | 8 ^h 34 | 26 ^h 8 | 18 ^h 20 | 9 ^h 37 | 0 ^h 52 | 24 ^h 19 | 10 ^h 4 | 9 ^h 4 | 20 ^h 50 | |
| M 4 | 12 49 3 | 14 ^h 10'56 | 14 ^h 3 | 11 ^h 33 | 27 ^h 46 | 18 ^h 56 | 9 ^h 42 | 0 ^h 54 | 24 ^h 20 | 10 ^h 5 | 9 ^h 5 | 20 ^h 50 | |
| T 5 | 12 52 59 | 15 ^h 9'53 | 15 ^h 1 | 14 ^h 28 | 29 ^h 23 | 19 ^h 32 | 9 ^h 47 | 0 ^h 56 | 24 ^h 21 | 10 ^h 5 | 9 ^h 5 | 20 ^h 51 | |
| W 6 | 12 56 56 | 16 ^h 8'48 | 16 ^h 0 | 17 ^h 22 | 1 ^h 1 | 20 ^h 8 | 9 ^h 52 | 0 ^h 58 | 24 ^h 22 | 10 ^h 6 | 9 ^h 5 | 20 ^h 51 | |
| T 7 | 13 0 53 | 17 ^h 7'40 | 16 ^h 59 | 20 ^h 14 | 2 ^h 38 | 20 ^h 44 | 9 ^h 57 | 0 ^h 59 | 24 ^h 22 | 10 ^h 6 | 9 ^h 6 | 20 ^h 52 | |
| F 8 | 13 4 49 | 18 ^h 6'31 | 17 ^h 58 | 23 ^h 4 | 4 ^h 16 | 21 ^h 19 | 10 ^h 2 | 1 ^h 1 | 24 ^h 23 | 10 ^h 6 | 9 ^h 6 | 20 ^h 53 | |
| S 9 | 13 8 46 | 19 ^h 5'18 | 18 ^h 57 | 25 ^h 53 | 5 ^h 53 | 21 ^h 55 | 10 ^h 7 | 1 ^h 3 | 24 ^h 24 | 10 ^h 7 | 9 ^h 7 | 20 ^h 53 | |
| S 10 | 13 12 42 | 20 ^h 4'04 | 19 ^h 57 | 28 ^h 40 | 7 ^h 31 | 22 ^h 31 | 10 ^h 12 | 1 ^h 5 | 24 ^h 25 | 10 ^h 7 | 9 ^h 7 | 20 ^h 54 | |
| M11 | 13 16 39 | 21 ^h 2'47 | 20 ^h 58 | 1 ^h 27 | 9 ^h 8 | 23 ^h 6 | 10 ^h 17 | 1 ^h 7 | 24 ^h 25 | 10 ^h 7 | 9 ^h 7 | 20 ^h 55 | |
| T 12 | 13 20 35 | 22 ^h 1'28 | 21 ^h 58 | 4 ^h 12 | 10 ^h 45 | 23 ^h 42 | 10 ^h 22 | 1 ^h 9 | 24 ^h 26 | 10 ^h 8 | 9 ^h 8 | 20 ^h 55 | |
| W13 | 13 24 32 | 23 ^h 0'07 | 22 ^h 59 | 6 ^h 58 | 12 ^h 23 | 24 ^h 18 | 10 ^h 27 | 1 ^h 11 | 24 ^h 27 | 10 ^h 8 | 9 ^h 8 | 20 ^h 56 | |
| T 14 | 13 28 28 | 23 ^h 58'44 | 23 ^h 59 | 9 ^h 42 | 14 ^h 0 | 24 ^h 53 | 10 ^h 32 | 1 ^h 13 | 24 ^h 28 | 10 ^h 8 | 9 ^h 9 | 20 ^h 57 | |
| F 15 | 13 32 25 | 24 ^h 57'19 | 25 ^h 0 | 12 ^h 27 | 15 ^h 38 | 25 ^h 28 | 10 ^h 37 | 1 ^h 15 | 24 ^h 28 | 10 ^h 9 | 9 ^h 9 | 20 ^h 57 | |
| S 16 | 13 36 22 | 25 ^h 55'53 | 26 ^h 0 | 15 ^h 12 | 17 ^h 15 | 26 ^h 4 | 10 ^h 42 | 1 ^h 17 | 24 ^h 29 | 10 ^h 9 | 9 ^h 10 | 20 ^h 58 | |
| S 17 | 13 40 18 | 26 ^h 54'24 | 27 ^h 0 | 17 ^h 57 | 18 ^h 52 | 26 ^h 39 | 10 ^h 47 | 1 ^h 19 | 24 ^h 30 | 10 ^h 10 | 9 ^h 10 | 20 ^h 59 | |
| M18 | 13 44 15 | 27 ^h 52'54 | 28 ^h 0 | 20 ^h 42 | 20 ^h 30 | 27 ^h 14 | 10 ^h 52 | 1 ^h 21 | 24 ^h 30 | 10 ^h 10 | 9 ^h 10 | 20 ^h 59 | |
| T 19 | 13 48 11 | 28 ^h 51'23 | 28 ^h 59 | 23 ^h 28 | 22 ^h 7 | 27 ^h 50 | 10 ^h 57 | 1 ^h 22 | 24 ^h 31 | 10 ^h 10 | 9 ^h 11 | 21 ^h 0 | |
| W20 | 13 52 8 | 29 ^h 49'49 | 29 ^h 58 | 26 ^h 15 | 23 ^h 44 | 28 ^h 25 | 11 ^h 2 | 1 ^h 24 | 24 ^h 32 | 10 ^h 11 | 9 ^h 11 | 21 ^h 0 | |
| T 21 | 13 56 4 | 0 ^h 14'8"14 | 0 ^h 15"7 | 29 ^h 3 | 25 ^h 21 | 29 ^h 0 | 11 ^h 7 | 1 ^h 26 | 24 ^h 33 | 10 ^h 11 | 9 ^h 12 | 21 ^h 1 | |
| F 22 | 14 0 1 | 1 ^h 46'38 | 1 ^h 55 | 1 ^h 52 | 26 ^h 58 | 29 ^h 35 | 11 ^h 12 | 1 ^h 28 | 24 ^h 33 | 10 ^h 11 | 9 ^h 12 | 21 ^h 2 | |
| S 23 | 14 3 57 | 2 ^h 45'00 | 2 ^h 53 | 4 ^h 43 | 28 ^h 36 | 0 ^h 10 | 11 ^h 17 | 1 ^h 30 | 24 ^h 34 | 10 ^h 12 | 9 ^h 12 | 21 ^h 2 | |
| S 24 | 14 7 54 | 3 ^h 43'20 | 3 ^h 50 | 7 ^h 36 | 0 ^h 13 | 0 ^h 45 | 11 ^h 22 | 1 ^h 32 | 24 ^h 35 | 10 ^h 12 | 9 ^h 13 | 21 ^h 3 | |
| M25 | 14 11 51 | 4 ^h 41'38 | 4 ^h 47 | 10 ^h 30 | 1 ^h 50 | 1 ^h 20 | 11 ^h 27 | 1 ^h 34 | 24 ^h 36 | 10 ^h 13 | 9 ^h 13 | 21 ^h 4 | |
| T 26 | 14 15 47 | 5 ^h 39'55 | 5 ^h 44 | 13 ^h 27 | 3 ^h 27 | 1 ^h 54 | 11 ^h 32 | 1 ^h 36 | 24 ^h 36 | 10 ^h 13 | 9 ^h 14 | 21 ^h 4 | |
| W27 | 14 19 44 | 6 ^h 38'11 | 6 ^h 40 | 16 ^h 26 | 5 ^h 4 | 2 ^h 29 | 11 ^h 37 | 1 ^h 38 | 24 ^h 37 | 10 ^h 13 | 9 ^h 14 | 21 ^h 5 | |
| T 28 | 14 23 40 | 7 ^h 36'24 | 7 ^h 37 | 19 ^h 28 | 6 ^h 41 | 3 ^h 4 | 11 ^h 42 | 1 ^h 40 | 24 ^h 38 | 10 | | | |

SWISS EPHEMERIS for the year 1729
heliocentric

MAY 1729

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|
| S 1 | 14 35 30 | 10♁30'55 | 10♁26 | 28♃52 | 11♁31 | 4♃48 | 11♁57 | 1♃45 | 24♁40 | 10♁15 | 9♁16 | 21♃8 |
| M 2 | 14 39 26 | 11°29'01 | 11°23 | 2♃8 | 13° 8 | 5°22 | 12° 2 | 1°47 | 24°41 | 10°15 | 9°16 | 21° 8 |
| T 3 | 14 43 23 | 12°27'06 | 12°20 | 5°27 | 14°45 | 5°57 | 12° 7 | 1°49 | 24°41 | 10°15 | 9°16 | 21° 9 |
| W 4 | 14 47 20 | 13°25'09 | 13°17 | 8°51 | 16°22 | 6°31 | 12°12 | 1°51 | 24°42 | 10°16 | 9°17 | 21° 9 |
| T 5 | 14 51 16 | 14°23'10 | 14°15 | 12°20 | 17°58 | 7° 5 | 12°17 | 1°53 | 24°43 | 10°16 | 9°17 | 21°10 |
| F 6 | 14 55 13 | 15°21'09 | 15°12 | 15°54 | 19°35 | 7°40 | 12°22 | 1°55 | 24°44 | 10°17 | 9°18 | 21°11 |
| S 7 | 14 59 9 | 16°19'07 | 16°10 | 19°33 | 21°12 | 8°14 | 12°27 | 1°57 | 24°44 | 10°17 | 9°18 | 21°11 |
| S 8 | 15 3 6 | 17°17'02 | 17° 9 | 23°18 | 22°48 | 8°48 | 12°32 | 1°59 | 24°45 | 10°17 | 9°18 | 21°12 |
| M 9 | 15 7 2 | 18°14'55 | 18° 8 | 27° 9 | 24°25 | 9°22 | 12°37 | 2° 1 | 24°46 | 10°18 | 9°19 | 21°13 |
| T 10 | 15 10 59 | 19°12'47 | 19° 7 | 1♃7 | 26° 1 | 9°56 | 12°42 | 2° 3 | 24°47 | 10°18 | 9°19 | 21°13 |
| W11 | 15 14 55 | 20°10'37 | 20° 7 | 5°12 | 27°37 | 10°30 | 12°47 | 2° 5 | 24°47 | 10°18 | 9°20 | 21°14 |
| T 12 | 15 18 52 | 21° 8'25 | 21° 6 | 9°23 | 29°14 | 11° 4 | 12°52 | 2° 7 | 24°48 | 10°19 | 9°20 | 21°15 |
| F 13 | 15 22 49 | 22° 6'12 | 22° 6 | 13°43 | 0♁50 | 11°38 | 12°57 | 2° 8 | 24°49 | 10°19 | 9°20 | 21°15 |
| S 14 | 15 26 45 | 23° 3'58 | 23° 6 | 18°11 | 2°26 | 12°12 | 13° 2 | 2°10 | 24°49 | 10°20 | 9°21 | 21°16 |
| S 15 | 15 30 42 | 24° 1'42 | 24° 5 | 22°47 | 4° 3 | 12°45 | 13° 7 | 2°12 | 24°50 | 10°20 | 9°21 | 21°17 |
| M16 | 15 34 38 | 24°59'25 | 25° 5 | 27°31 | 5°39 | 13°19 | 13°12 | 2°14 | 24°51 | 10°20 | 9°22 | 21°17 |
| T 17 | 15 38 35 | 25°57'07 | 26° 4 | 2♃25 | 7°15 | 13°53 | 13°17 | 2°16 | 24°52 | 10°21 | 9°22 | 21°18 |
| W18 | 15 42 31 | 26°54'48 | 27° 3 | 7°27 | 8°51 | 14°26 | 13°21 | 2°18 | 24°52 | 10°21 | 9°23 | 21°19 |
| T 19 | 15 46 28 | 27°52'27 | 28° 1 | 12°39 | 10°27 | 15° 0 | 13°26 | 2°20 | 24°53 | 10°21 | 9°23 | 21°19 |
| F 20 | 15 50 24 | 28°50'06 | 28°59 | 18° 0 | 12° 3 | 15°33 | 13°31 | 2°22 | 24°54 | 10°22 | 9°23 | 21°20 |
| S 21 | 15 54 21 | 29°47'44 | 29°56 | 23°29 | 13°39 | 16° 7 | 13°36 | 2°24 | 24°55 | 10°22 | 9°24 | 21°20 |
| S 22 | 15 58 18 | 0♁45'20 | 0♁54 | 29° 8 | 15°15 | 16°40 | 13°41 | 2°26 | 24°55 | 10°22 | 9°24 | 21°21 |
| M23 | 16 2 14 | 1°42'56 | 1°50 | 4♃55 | 16°51 | 17°13 | 13°46 | 2°28 | 24°56 | 10°23 | 9°25 | 21°22 |
| T 24 | 16 6 11 | 2°40'30 | 2°47 | 10°49 | 18°26 | 17°47 | 13°51 | 2°30 | 24°57 | 10°23 | 9°25 | 21°22 |
| W25 | 16 10 7 | 3°38'04 | 3°43 | 16°50 | 20° 2 | 18°20 | 13°56 | 2°31 | 24°58 | 10°24 | 9°25 | 21°23 |
| T 26 | 16 14 4 | 4°35'37 | 4°39 | 22°58 | 21°38 | 18°53 | 14° 1 | 2°33 | 24°58 | 10°24 | 9°26 | 21°24 |
| F 27 | 16 18 0 | 5°33'09 | 5°35 | 29°10 | 23°14 | 19°26 | 14° 6 | 2°35 | 24°59 | 10°24 | 9°26 | 21°24 |
| S 28 | 16 21 57 | 6°30'40 | 6°31 | 5♁26 | 24°49 | 19°59 | 14°11 | 2°37 | 25° 0 | 10°25 | 9°27 | 21°25 |
| S 29 | 16 25 53 | 7°28'10 | 7°26 | 11°45 | 26°25 | 20°32 | 14°16 | 2°39 | 25° 0 | 10°25 | 9°27 | 21°26 |
| M30 | 16 29 50 | 8°25'38 | 8°22 | 18° 4 | 28° 0 | 21° 5 | 14°21 | 2°41 | 25° 1 | 10°25 | 9°27 | 21°26 |
| T 31 | 16 33 47 | 9♁23'06 | 9♁18 | 24♁22 | 29♁36 | 21♃38 | 14♁26 | 2♃43 | 25♁2 | 10♁26 | 9♁28 | 21♃27 |

Delta T = 10.07 sec. Greg. Calendar

JUNE 1729

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|
| W 1 | 16 37 43 | 10♁20'33 | 10♁14 | 0♃39 | 1♃11 | 22♃11 | 14♁31 | 2♃45 | 25♁3 | 10♁26 | 9♁28 | 21♃28 |
| T 2 | 16 41 40 | 11°17'58 | 11°11 | 6°52 | 2°47 | 22°43 | 14°36 | 2°47 | 25° 3 | 10°26 | 9°29 | 21°28 |
| F 3 | 16 45 36 | 12°15'23 | 12° 7 | 12°59 | 4°22 | 23°16 | 14°41 | 2°49 | 25° 4 | 10°27 | 9°29 | 21°29 |
| S 4 | 16 49 33 | 13°12'46 | 13° 4 | 19° 1 | 5°58 | 23°49 | 14°46 | 2°51 | 25° 5 | 10°27 | 9°29 | 21°29 |
| S 5 | 16 53 29 | 14°10'08 | 14° 2 | 24°55 | 7°33 | 24°21 | 14°51 | 2°53 | 25° 6 | 10°28 | 9°30 | 21°30 |
| M 6 | 16 57 26 | 15° 7'29 | 14°59 | 0♁41 | 9° 8 | 24°54 | 14°56 | 2°54 | 25° 6 | 10°28 | 9°30 | 21°31 |
| T 7 | 17 1 22 | 16° 4'48 | 15°58 | 6°19 | 10°44 | 25°26 | 15° 1 | 2°56 | 25° 7 | 10°28 | 9°31 | 21°31 |
| W 8 | 17 5 19 | 17° 2'07 | 16°56 | 11°47 | 12°19 | 25°59 | 15° 6 | 2°58 | 25° 8 | 10°29 | 9°31 | 21°32 |
| T 9 | 17 9 16 | 17°59'25 | 17°55 | 17° 6 | 13°54 | 26°31 | 15°11 | 3° 0 | 25° 9 | 10°29 | 9°31 | 21°33 |
| F 10 | 17 13 12 | 18°56'42 | 18°54 | 22°15 | 15°29 | 27° 3 | 15°16 | 3° 2 | 25° 9 | 10°29 | 9°32 | 21°33 |
| S 11 | 17 17 9 | 19°53'59 | 19°53 | 27°14 | 17° 4 | 27°35 | 15°21 | 3° 4 | 25°10 | 10°30 | 9°32 | 21°34 |
| S 12 | 17 21 5 | 20°51'15 | 20°53 | 2♁4 | 18°39 | 28° 8 | 15°26 | 3° 6 | 25°11 | 10°30 | 9°33 | 21°35 |
| M13 | 17 25 2 | 21°48'30 | 21°52 | 6°45 | 20°15 | 28°40 | 15°31 | 3° 8 | 25°11 | 10°31 | 9°33 | 21°35 |
| T 14 | 17 28 58 | 22°45'45 | 22°51 | 11°17 | 21°50 | 29°12 | 15°35 | 3°10 | 25°12 | 10°31 | 9°34 | 21°36 |
| W15 | 17 32 55 | 23°42'59 | 23°49 | 15°40 | 23°25 | 29°44 | 15°40 | 3°12 | 25°13 | 10°31 | 9°34 | 21°37 |
| T 16 | 17 36 52 | 24°40'13 | 24°48 | 19°54 | 25° 0 | 0♁16 | 15°45 | 3°14 | 25°14 | 10°32 | 9°34 | 21°37 |
| F 17 | 17 40 48 | 25°37'27 | 25°46 | 24° 1 | 26°35 | 0°48 | 15°50 | 3°16 | 25°14 | 10°32 | 9°35 | 21°38 |
| S 18 | 17 44 45 | 26°34'41 | 26°44 | 28° 1 | 28°10 | 1°19 | 15°55 | 3°18 | 25°15 | 10°32 | 9°35 | 21°39 |
| S 19 | 17 48 41 | 27°31'55 | 27°41 | 1♁53 | 29°45 | 1°51 | 16° 0 | 3°19 | 25°16 | 10°33 | 9°36 | 21°39 |
| M20 | 17 52 38 | 28°29'08 | 28°38 | 5°39 | 1♃20 | 2°23 | 16° 5 | 3°21 | 25°17 | 10°33 | 9°36 | 21°40 |
| T 21 | 17 56 34 | 29°26'21 | 29°34 | 9°18 | 2°55 | 2°55 | 16°10 | 3°23 | 25°17 | 10°33 | 9°36 | 21°40 |
| W22 | 18 0 31 | 0♃23'35 | 0♃31 | 12°52 | 4°29 | 3°26 | 16°15 | 3°25 | 25°18 | 10°34 | 9°37 | 21°41 |
| T 23 | 18 4 27 | 1°20'48 | 1°27 | 16°20 | 6° 4 | 3°58 | 16°20 | 3°27 | 25°19 | 10°34 | 9°37 | 21°42 |
| F 24 | 18 8 24 | 2°18'01 | 2°22 | 19°44 | 7°39 | 4°29 | 16°25 | 3°29 | 25°19 | 10°35 | 9°38 | 21°42 |
| S 25 | 18 12 21 | 3°15'15 | 3°18 | 23° 3 | 9°14 | 5° 1 | 16°30 | 3°31 | 25°20 | 10°35 | 9°38 | 21°43 |
| S 26 | 18 16 17 | 4°12'28 | 4°13 | 26°17 | 10°49 | 5°32 | 16°35 | 3°33 | 25°21 | 10°35 | 9°38 | 21°44 |
| M27 | 18 20 14 | 5° 9'41 | 5° 9 | 29°28 | 12°24 | 6° 4 | 16°40 | 3°35 | 25°22 | 10°36 | 9°39 | 21°44 |
| T 28 | 18 24 10 | 6° 6'54 | 6° 4 | 2♁35 | 13°59 | 6°35 | 16°45 | 3°37 | 25°22 | 10°36 | 9°39 | 21°45 |
| W29 | 18 28 7 | 7° 4'07 | 7° 0 | 5°39 | 15°34 | 7° 6 | 16°50 | 3°39 | 25°23 | 10°36 | 9°40 | 21°46 |
| T 30 | 18 32 3 | 8♃1'19 | 7♃56 | 8♁40 | 17♃8 | 7♁37 | 16♁55 | 3♃41 | 25♁24 | 10♁37 | 9♁40 | 21♃46 |

Delta T = 10.07 sec. Greg. Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [13.11.2015]

SWISS EPHEMERIS for the year 1729
heliocentric

JULY 1729

00:00 UT

| Day | Sid.t | Terra | ☾ | ♁ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|
| F 1 | 18 36 0 | 8♁58'32 | 8♁52 | 11♏38 | 18♂43 | 8♏ 8 | 17♁ 0 | 3♏43 | 25♏25 | 10♏37 | 9♏40 | 21♏47 |
| S 2 | 18 39 56 | 9°55'44 | 9°48 | 14°34 | 20°18 | 8°39 | 17° 5 | 3°44 | 25°25 | 10°38 | 9°41 | 21°48 |
| S 3 | 18 43 53 | 10°52'56 | 10°45 | 17°28 | 21°53 | 9°11 | 17° 9 | 3°46 | 25°26 | 10°38 | 9°41 | 21°48 |
| M 4 | 18 47 50 | 11°50'07 | 11°42 | 20°19 | 23°28 | 9°41 | 17°14 | 3°48 | 25°27 | 10°38 | 9°42 | 21°49 |
| T 5 | 18 51 46 | 12°47'19 | 12°39 | 23°10 | 25° 3 | 10°12 | 17°19 | 3°50 | 25°28 | 10°39 | 9°42 | 21°49 |
| W 6 | 18 55 43 | 13°44'30 | 13°37 | 25°58 | 26°37 | 10°43 | 17°24 | 3°52 | 25°28 | 10°39 | 9°43 | 21°50 |
| T 7 | 18 59 39 | 14°41'42 | 14°35 | 28°46 | 28°12 | 11°14 | 17°29 | 3°54 | 25°29 | 10°39 | 9°43 | 21°51 |
| F 8 | 19 3 36 | 15°38'53 | 15°34 | 1♁32 | 29°47 | 11°45 | 17°34 | 3°56 | 25°30 | 10°40 | 9°43 | 21°51 |
| S 9 | 19 7 32 | 16°36'05 | 16°33 | 4°18 | 1♁22 | 12°16 | 17°39 | 3°58 | 25°30 | 10°40 | 9°44 | 21°52 |
| S 10 | 19 11 29 | 17°33'16 | 17°32 | 7° 3 | 2°57 | 12°46 | 17°44 | 4° 0 | 25°31 | 10°40 | 9°44 | 21°53 |
| M 11 | 19 15 26 | 18°30'28 | 18°31 | 9°48 | 4°32 | 13°17 | 17°49 | 4° 2 | 25°32 | 10°41 | 9°45 | 21°53 |
| T 12 | 19 19 22 | 19°27'40 | 19°30 | 12°32 | 6° 6 | 13°48 | 17°54 | 4° 4 | 25°33 | 10°41 | 9°45 | 21°54 |
| W 13 | 19 23 19 | 20°24'53 | 20°29 | 15°17 | 7°41 | 14°18 | 17°59 | 4° 6 | 25°33 | 10°42 | 9°45 | 21°55 |
| T 14 | 19 27 15 | 21°22'06 | 21°28 | 18° 2 | 9°16 | 14°49 | 18° 4 | 4° 8 | 25°34 | 10°42 | 9°46 | 21°55 |
| F 15 | 19 31 12 | 22°19'20 | 22°27 | 20°47 | 10°51 | 15°19 | 18° 9 | 4° 9 | 25°35 | 10°42 | 9°46 | 21°56 |
| S 16 | 19 35 8 | 23°16'34 | 23°25 | 23°34 | 12°26 | 15°49 | 18°14 | 4°11 | 25°36 | 10°43 | 9°47 | 21°57 |
| S 17 | 19 39 5 | 24°13'50 | 24°23 | 26°21 | 14° 1 | 16°20 | 18°19 | 4°13 | 25°36 | 10°43 | 9°47 | 21°57 |
| M 18 | 19 43 1 | 25°11'06 | 25°20 | 29° 9 | 15°36 | 16°50 | 18°24 | 4°15 | 25°37 | 10°43 | 9°47 | 21°58 |
| T 19 | 19 46 58 | 26° 8'23 | 26°17 | 1♁58 | 17°11 | 17°20 | 18°28 | 4°17 | 25°38 | 10°44 | 9°48 | 21°59 |
| W 20 | 19 50 54 | 27° 5'40 | 27°14 | 4°49 | 18°46 | 17°50 | 18°33 | 4°19 | 25°39 | 10°44 | 9°48 | 21°59 |
| T 21 | 19 54 51 | 28° 2'59 | 28°11 | 7°41 | 20°21 | 18°20 | 18°38 | 4°21 | 25°39 | 10°45 | 9°49 | 22° 0 |
| F 22 | 19 58 48 | 29° 0'19 | 29° 7 | 10°36 | 21°55 | 18°51 | 18°43 | 4°23 | 25°40 | 10°45 | 9°49 | 22° 0 |
| S 23 | 20 2 44 | 29°57'39 | 0♁ 3 | 13°33 | 23°30 | 19°21 | 18°48 | 4°25 | 25°41 | 10°45 | 9°49 | 22° 1 |
| S 24 | 20 6 41 | 0♁55'01 | 0°59 | 16°32 | 25° 5 | 19°51 | 18°53 | 4°27 | 25°41 | 10°46 | 9°50 | 22° 2 |
| M 25 | 20 10 37 | 1°52'23 | 1°54 | 19°34 | 26°40 | 20°21 | 18°58 | 4°29 | 25°42 | 10°46 | 9°50 | 22° 2 |
| T 26 | 20 14 34 | 2°49'46 | 2°50 | 22°39 | 28°16 | 20°50 | 19° 3 | 4°31 | 25°43 | 10°46 | 9°51 | 22° 3 |
| W 27 | 20 18 30 | 3°47'10 | 3°46 | 25°47 | 29°51 | 21°20 | 19° 8 | 4°33 | 25°44 | 10°47 | 9°51 | 22° 4 |
| T 28 | 20 22 27 | 4°44'35 | 4°41 | 28°59 | 1♁26 | 21°50 | 19°13 | 4°34 | 25°44 | 10°47 | 9°52 | 22° 4 |
| F 29 | 20 26 24 | 5°42'00 | 5°37 | 2♁14 | 3° 1 | 22°20 | 19°18 | 4°36 | 25°45 | 10°47 | 9°52 | 22° 5 |
| S 30 | 20 30 20 | 6°39'26 | 6°33 | 5°34 | 4°36 | 22°50 | 19°23 | 4°38 | 25°46 | 10°48 | 9°52 | 22° 6 |
| S 31 | 20 34 17 | 7♁36'53 | 7♁30 | 8♁58 | 6♁11 | 23♏19 | 19♁28 | 4♁40 | 25♏47 | 10♏48 | 9♏53 | 22♏ 6 |

Delta T = 10.07 sec. Greg. Calendar

AUGUST 1729

00:00 UT

| Day | Sid.t | Terra | ☾ | ♁ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| M 1 | 20 38 13 | 8♁34'20 | 8♁26 | 12♁27 | 7♁46 | 23♏49 | 19♁32 | 4♁42 | 25♏47 | 10♏49 | 9♏53 | 22♏ 7 |
| T 2 | 20 42 10 | 9°31'49 | 9°23 | 16° 1 | 9°21 | 24°18 | 19°37 | 4°44 | 25°48 | 10°49 | 9°54 | 22° 8 |
| W 3 | 20 46 6 | 10°29'18 | 10°21 | 19°40 | 10°56 | 24°48 | 19°42 | 4°46 | 25°49 | 10°49 | 9°54 | 22° 8 |
| T 4 | 20 50 3 | 11°26'48 | 11°19 | 23°25 | 12°32 | 25°17 | 19°47 | 4°48 | 25°49 | 10°50 | 9°54 | 22° 9 |
| F 5 | 20 53 59 | 12°24'18 | 12°18 | 27°17 | 14° 7 | 25°47 | 19°52 | 4°50 | 25°50 | 10°50 | 9°55 | 22°10 |
| S 6 | 20 57 56 | 13°21'50 | 13°16 | 1♁15 | 15°42 | 26°16 | 19°57 | 4°52 | 25°51 | 10°50 | 9°55 | 22°10 |
| S 7 | 21 1 53 | 14°19'22 | 14°16 | 5°19 | 17°17 | 26°46 | 20° 2 | 4°54 | 25°52 | 10°51 | 9°56 | 22°11 |
| M 8 | 21 5 49 | 15°16'56 | 15°15 | 9°32 | 18°53 | 27°15 | 20° 7 | 4°56 | 25°52 | 10°51 | 9°56 | 22°12 |
| T 9 | 21 9 46 | 16°14'30 | 16°14 | 13°52 | 20°28 | 27°44 | 20°12 | 4°58 | 25°53 | 10°52 | 9°56 | 22°12 |
| W 10 | 21 13 42 | 17°12'06 | 17°14 | 18°20 | 22° 3 | 28°13 | 20°17 | 5° 0 | 25°54 | 10°52 | 9°57 | 22°13 |
| T 11 | 21 17 39 | 18° 9'43 | 18°13 | 22°56 | 23°39 | 28°43 | 20°22 | 5° 1 | 25°55 | 10°52 | 9°57 | 22°13 |
| F 12 | 21 21 35 | 19° 7'21 | 19°13 | 27°41 | 25°14 | 29°12 | 20°27 | 5° 3 | 25°55 | 10°53 | 9°58 | 22°14 |
| S 13 | 21 25 32 | 20° 5'00 | 20°12 | 2♁34 | 26°49 | 29°41 | 20°32 | 5° 5 | 25°56 | 10°53 | 9°58 | 22°15 |
| S 14 | 21 29 28 | 21° 2'42 | 21°10 | 7°37 | 28°25 | 0♁10 | 20°36 | 5° 7 | 25°57 | 10°53 | 9°58 | 22°15 |
| M 15 | 21 33 25 | 22° 0'24 | 22° 9 | 12°49 | 0♁ 0 | 0°39 | 20°41 | 5° 9 | 25°58 | 10°54 | 9°59 | 22°16 |
| T 16 | 21 37 22 | 22°58'09 | 23° 7 | 18°10 | 1°36 | 1° 8 | 20°46 | 5°11 | 25°58 | 10°54 | 9°59 | 22°17 |
| W 17 | 21 41 18 | 23°55'55 | 24° 5 | 23°40 | 3°11 | 1°37 | 20°51 | 5°13 | 25°59 | 10°54 | 10° 0 | 22°17 |
| T 18 | 21 45 15 | 24°53'43 | 25° 3 | 29°19 | 4°47 | 2° 6 | 20°56 | 5°15 | 26° 0 | 10°55 | 10° 0 | 22°18 |
| F 19 | 21 49 11 | 25°51'33 | 26° 0 | 5♁ 6 | 6°22 | 2°35 | 21° 1 | 5°17 | 26° 0 | 10°55 | 10° 0 | 22°19 |
| S 20 | 21 53 8 | 26°49'24 | 26°57 | 11° 0 | 7°58 | 3° 3 | 21° 6 | 5°19 | 26° 1 | 10°56 | 10° 1 | 22°19 |
| S 21 | 21 57 4 | 27°47'17 | 27°53 | 17° 2 | 9°34 | 3°32 | 21°11 | 5°21 | 26° 2 | 10°56 | 10° 1 | 22°20 |
| M 22 | 22 1 1 | 28°45'12 | 28°50 | 23°10 | 11° 9 | 4° 1 | 21°16 | 5°23 | 26° 3 | 10°56 | 10° 2 | 22°21 |
| T 23 | 22 4 57 | 29°43'08 | 29°46 | 29°22 | 12°45 | 4°30 | 21°21 | 5°25 | 26° 3 | 10°57 | 10° 2 | 22°21 |
| W 24 | 22 8 54 | 0♁41'06 | 0♁42 | 5♏38 | 14°21 | 4°58 | 21°26 | 5°27 | 26° 4 | 10°57 | 10° 3 | 22°22 |
| T 25 | 22 12 51 | 1°39'06 | 1°38 | 11°57 | 15°56 | 5°27 | 21°30 | 5°28 | 26° 5 | 10°57 | 10° 3 | 22°23 |
| F 26 | 22 16 47 | 2°37'07 | 2°34 | 18°16 | 17°32 | 5°55 | 21°35 | 5°30 | 26° 6 | 10°58 | 10° 3 | 22°23 |
| S 27 | 22 20 44 | 3°35'09 | 3°31 | 24°34 | 19° 8 | 6°24 | 21°40 | 5°32 | 26° 6 | 10°58 | 10° 4 | 22°24 |
| S 28 | 22 24 40 | 4°33'13 | 4°27 | 0♁51 | 20°43 | 6°52 | 21°45 | 5°34 | 26° 7 | 10°58 | 10° 4 | 22°24 |
| M 29 | 22 28 37 | 5°31'19 | 5°24 | 7° 3 | 22°19 | 7°21 | 21°50 | 5°36 | 26° 8 | 10°59 | 10° 5 | 22°25 |
| T 30 | 22 32 33 | 6°29'26 | 6°22 | 13°11 | 23°55 | 7°49 | 21°55 | 5°38 | 26° 8 | 10°59 | 10° 5 | 22°26 |
| W 31 | 22 36 30 | 7♁27'35 | 7♁19 | 19♁12 | 25♏31 | 8♁18 | 22♁ 0 | 5♁40 | 26♏ 9 | 11♏ 0 | 10♏ 5 | 22♏26 |

Delta T = 10.08 sec. Greg. Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [13.11.2015]

SWISS EPHEMERIS for the year 1729
heliocentric

SEPTEMBER 1729

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| T 1 | 22 40 26 | 8°25'45 | 8°17 | 25°06 | 27°07 | 8°46 | 22°05 | 5°42 | 26°10 | 11°00 | 10°06 | 22°27 |
| F 2 | 22 44 23 | 9°23'56 | 9°16 | 0°52 | 28°43 | 9°14 | 22°10 | 5°44 | 26°11 | 11°00 | 10°06 | 22°28 |
| S 3 | 22 48 20 | 10°22'09 | 10°15 | 6°29 | 0°19 | 9°43 | 22°15 | 5°46 | 26°11 | 11°01 | 10°07 | 22°28 |
| S 4 | 22 52 16 | 11°20'23 | 11°14 | 11°57 | 1°55 | 10°11 | 22°19 | 5°48 | 26°12 | 11°01 | 10°07 | 22°29 |
| M 5 | 22 56 13 | 12°18'39 | 12°14 | 17°16 | 3°31 | 10°39 | 22°24 | 5°50 | 26°13 | 11°01 | 10°07 | 22°30 |
| T 6 | 23 0 9 | 13°16'56 | 13°14 | 22°25 | 5°7 | 11°7 | 22°29 | 5°52 | 26°14 | 11°02 | 10°08 | 22°30 |
| W 7 | 23 4 6 | 14°15'16 | 14°14 | 27°24 | 6°43 | 11°35 | 22°34 | 5°54 | 26°14 | 11°02 | 10°08 | 22°31 |
| T 8 | 23 8 2 | 15°13'37 | 15°14 | 2°13 | 8°19 | 12°4 | 22°39 | 5°55 | 26°15 | 11°03 | 10°09 | 22°32 |
| F 9 | 23 11 59 | 16°11'59 | 16°15 | 6°54 | 9°55 | 12°32 | 22°44 | 5°57 | 26°16 | 11°03 | 10°09 | 22°32 |
| S 10 | 23 15 55 | 17°10'24 | 17°15 | 11°25 | 11°31 | 13°0 | 22°49 | 5°59 | 26°17 | 11°03 | 10°09 | 22°33 |
| S 11 | 23 19 52 | 18°8'51 | 18°15 | 15°48 | 13°7 | 13°28 | 22°54 | 6°1 | 26°17 | 11°04 | 10°10 | 22°34 |
| M 12 | 23 23 48 | 19°7'20 | 19°15 | 20°2 | 14°43 | 13°56 | 22°59 | 6°3 | 26°18 | 11°04 | 10°10 | 22°34 |
| T 13 | 23 27 45 | 20°5'51 | 20°14 | 24°9 | 16°20 | 14°24 | 23°3 | 6°5 | 26°19 | 11°04 | 10°11 | 22°35 |
| W 14 | 23 31 42 | 21°4'24 | 21°13 | 28°8 | 17°56 | 14°51 | 23°8 | 6°7 | 26°19 | 11°05 | 10°11 | 22°35 |
| T 15 | 23 35 38 | 22°2'59 | 22°12 | 2°0 | 19°32 | 15°19 | 23°13 | 6°9 | 26°20 | 11°05 | 10°11 | 22°36 |
| F 16 | 23 39 35 | 23°1'37 | 23°11 | 5°46 | 21°8 | 15°47 | 23°18 | 6°11 | 26°21 | 11°05 | 10°12 | 22°37 |
| S 17 | 23 43 31 | 24°0'17 | 24°9 | 9°25 | 22°45 | 16°15 | 23°23 | 6°13 | 26°22 | 11°06 | 10°12 | 22°37 |
| S 18 | 23 47 28 | 24°58'59 | 25°7 | 12°59 | 24°21 | 16°43 | 23°28 | 6°15 | 26°22 | 11°06 | 10°13 | 22°38 |
| M 19 | 23 51 24 | 25°57'43 | 26°5 | 16°27 | 25°58 | 17°11 | 23°33 | 6°17 | 26°23 | 11°07 | 10°13 | 22°39 |
| T 20 | 23 55 21 | 26°56'30 | 27°2 | 19°50 | 27°34 | 17°38 | 23°38 | 6°19 | 26°24 | 11°07 | 10°14 | 22°39 |
| W 21 | 23 59 17 | 27°55'18 | 27°59 | 23°9 | 29°10 | 18°6 | 23°43 | 6°21 | 26°25 | 11°07 | 10°14 | 22°40 |
| T 22 | 0 3 14 | 28°54'09 | 28°56 | 26°23 | 0°47 | 18°34 | 23°47 | 6°22 | 26°25 | 11°08 | 10°14 | 22°41 |
| F 23 | 0 7 11 | 29°53'02 | 29°53 | 29°34 | 2°23 | 19°1 | 23°52 | 6°24 | 26°26 | 11°08 | 10°15 | 22°41 |
| S 24 | 0 11 7 | 0°51'57 | 0°50 | 2°41 | 4°0 | 19°29 | 23°57 | 6°26 | 26°27 | 11°08 | 10°15 | 22°42 |
| S 25 | 0 15 4 | 1°50'53 | 1°47 | 5°45 | 5°37 | 19°56 | 24°2 | 6°28 | 26°27 | 11°09 | 10°16 | 22°43 |
| M 26 | 0 19 0 | 2°49'52 | 2°44 | 8°46 | 7°13 | 20°24 | 24°7 | 6°30 | 26°28 | 11°09 | 10°16 | 22°43 |
| T 27 | 0 22 57 | 3°48'53 | 3°42 | 11°44 | 8°50 | 20°51 | 24°12 | 6°32 | 26°29 | 11°09 | 10°16 | 22°44 |
| W 28 | 0 26 53 | 4°47'55 | 4°40 | 14°40 | 10°26 | 21°19 | 24°17 | 6°34 | 26°30 | 11°10 | 10°17 | 22°45 |
| T 29 | 0 30 50 | 5°46'59 | 5°39 | 17°33 | 12°3 | 21°46 | 24°22 | 6°36 | 26°30 | 11°10 | 10°17 | 22°45 |
| F 30 | 0 34 46 | 6°46'05 | 6°38 | 20°25 | 13°40 | 22°14 | 24°27 | 6°38 | 26°31 | 11°11 | 10°18 | 22°46 |

Delta T = 10.08 sec.

Greg. Calendar

OCTOBER 1729

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ |
|------|---------|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| S 1 | 0 38 43 | 7°45'13 | 7°37 | 23°15 | 15°17 | 22°41 | 24°31 | 6°40 | 26°32 | 11°11 | 10°18 | 22°47 |
| S 2 | 0 42 40 | 8°44'22 | 8°37 | 26°4 | 16°53 | 23°9 | 24°36 | 6°42 | 26°33 | 11°11 | 10°18 | 22°47 |
| M 3 | 0 46 36 | 9°43'33 | 9°37 | 28°51 | 18°30 | 23°36 | 24°41 | 6°44 | 26°33 | 11°12 | 10°19 | 22°48 |
| T 4 | 0 50 33 | 10°42'46 | 10°37 | 1°37 | 20°7 | 24°3 | 24°46 | 6°46 | 26°34 | 11°12 | 10°19 | 22°48 |
| W 5 | 0 54 29 | 11°42'01 | 11°38 | 4°23 | 21°44 | 24°30 | 24°51 | 6°48 | 26°35 | 11°12 | 10°20 | 22°49 |
| T 6 | 0 58 26 | 12°41'17 | 12°39 | 7°8 | 23°21 | 24°58 | 24°56 | 6°50 | 26°35 | 11°13 | 10°20 | 22°50 |
| F 7 | 1 2 22 | 13°40'36 | 13°40 | 9°53 | 24°58 | 25°25 | 25°1 | 6°51 | 26°36 | 11°13 | 10°20 | 22°50 |
| S 8 | 1 6 19 | 14°39'57 | 14°42 | 12°38 | 26°35 | 25°52 | 25°6 | 6°53 | 26°37 | 11°14 | 10°21 | 22°51 |
| S 9 | 1 10 15 | 15°39'20 | 15°43 | 15°22 | 28°12 | 26°19 | 25°10 | 6°55 | 26°38 | 11°14 | 10°21 | 22°52 |
| M 10 | 1 14 12 | 16°38'45 | 16°44 | 18°7 | 29°49 | 26°47 | 25°15 | 6°57 | 26°38 | 11°14 | 10°22 | 22°52 |
| T 11 | 1 18 9 | 17°38'12 | 17°45 | 20°53 | 1°26 | 27°14 | 25°20 | 6°59 | 26°39 | 11°15 | 10°22 | 22°53 |
| W 12 | 1 22 5 | 18°37'41 | 18°45 | 23°39 | 3°3 | 27°41 | 25°25 | 7°1 | 26°40 | 11°15 | 10°22 | 22°54 |
| T 13 | 1 26 2 | 19°37'13 | 19°46 | 26°26 | 4°40 | 28°8 | 25°30 | 7°3 | 26°41 | 11°15 | 10°23 | 22°54 |
| F 14 | 1 29 58 | 20°36'47 | 20°46 | 29°14 | 6°17 | 28°35 | 25°35 | 7°5 | 26°41 | 11°16 | 10°23 | 22°55 |
| S 15 | 1 33 55 | 21°36'24 | 21°46 | 2°3 | 7°54 | 29°2 | 25°40 | 7°7 | 26°42 | 11°16 | 10°24 | 22°56 |
| S 16 | 1 37 51 | 22°36'02 | 22°45 | 4°54 | 9°32 | 29°29 | 25°45 | 7°9 | 26°43 | 11°16 | 10°24 | 22°56 |
| M 17 | 1 41 48 | 23°35'43 | 23°44 | 7°47 | 11°9 | 29°56 | 25°49 | 7°11 | 26°44 | 11°17 | 10°25 | 22°57 |
| T 18 | 1 45 44 | 24°35'26 | 24°43 | 10°42 | 12°46 | 0°23 | 25°54 | 7°13 | 26°44 | 11°17 | 10°25 | 22°58 |
| W 19 | 1 49 41 | 25°35'11 | 25°41 | 13°38 | 14°23 | 0°50 | 25°59 | 7°15 | 26°45 | 11°18 | 10°25 | 22°58 |
| T 20 | 1 53 38 | 26°34'59 | 26°40 | 16°38 | 16°1 | 1°17 | 26°4 | 7°17 | 26°46 | 11°18 | 10°26 | 22°59 |
| F 21 | 1 57 34 | 27°34'49 | 27°38 | 19°40 | 17°38 | 1°44 | 26°9 | 7°19 | 26°46 | 11°18 | 10°26 | 22°59 |
| S 22 | 2 1 31 | 28°34'40 | 28°36 | 22°45 | 19°15 | 2°11 | 26°14 | 7°20 | 26°47 | 11°19 | 10°27 | 23°0 |
| S 23 | 2 5 27 | 29°34'34 | 29°33 | 25°53 | 20°53 | 2°38 | 26°19 | 7°22 | 26°48 | 11°19 | 10°27 | 23°1 |
| M 24 | 2 9 24 | 0°34'30 | 0°31 | 29°5 | 22°30 | 3°5 | 26°24 | 7°24 | 26°49 | 11°19 | 10°27 | 23°1 |
| T 25 | 2 13 20 | 1°34'28 | 1°30 | 2°20 | 24°7 | 3°31 | 26°28 | 7°26 | 26°49 | 11°20 | 10°28 | 23°2 |
| W 26 | 2 17 17 | 2°34'27 | 2°28 | 5°40 | 25°45 | 3°58 | 26°33 | 7°28 | 26°50 | 11°20 | 10°28 | 23°3 |
| T 27 | 2 21 13 | 3°34'28 | 3°27 | 9°4 | 27°22 | 4°25 | 26°38 | 7°30 | 26°51 | 11°21 | 10°29 | 23°3 |
| F 28 | 2 25 10 | 4°34'31 | 4°26 | 12°33 | 29°0 | 4°52 | 26°43 | 7°32 | 26°52 | 11°21 | 10°29 | 23°4 |
| S 29 | 2 29 7 | 5°34'35 | 5°26 | 16°7 | 0°37 | 5°19 | 26°48 | 7°34 | 26°52 | 11°21 | 10°29 | 23°5 |
| S 30 | 2 33 3 | 6°34'41 | 6°26 | 19°47 | 2°15 | 5°45 | 26°53 | 7°36 | 26°53 | 11°22 | 10°30 | 23°5 |
| M 31 | 2 37 0 | 7°34'48 | 7°27 | 23°32 | 3°52 | 6°12 | 26°58 | 7°38 | 26°54 | 11°22 | 10°30 | 23°6 |

Delta T = 10.08 sec.

Greg. Calendar

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SWISS EPHEMERIS for the year 1729
heliocentric

NOVEMBER 1729

00:00 UT

| Day | Sid.t | Terra | ☾ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ |
|------|---------|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| T 1 | 2 40 56 | 8♂34'57 | 8♂28 | 27♂24 | 5♂230 | 6♂39 | 27♂2 | 7♂40 | 26♂54 | 11♂22 | 10♂31 | 23♂7 |
| W 2 | 2 44 53 | 9°35'07 | 9°29 | 1♂22 | 7° 7 | 7° 5 | 27° 7 | 7°42 | 26°55 | 11°23 | 10°31 | 23° 7 |
| T 3 | 2 48 49 | 10°35'19 | 10°31 | 5°27 | 8°45 | 7°32 | 27°12 | 7°44 | 26°56 | 11°23 | 10°31 | 23° 8 |
| F 4 | 2 52 46 | 11°35'32 | 11°32 | 9°40 | 10°22 | 7°59 | 27°17 | 7°46 | 26°57 | 11°23 | 10°32 | 23° 9 |
| S 5 | 2 56 42 | 12°35'48 | 12°34 | 14° 0 | 12° 0 | 8°25 | 27°22 | 7°48 | 26°57 | 11°24 | 10°32 | 23° 9 |
| S 6 | 3 0 39 | 13°36'05 | 13°36 | 18°28 | 13°37 | 8°52 | 27°27 | 7°50 | 26°58 | 11°24 | 10°33 | 23°10 |
| M 7 | 3 4 36 | 14°36'24 | 14°39 | 23° 5 | 15°15 | 9°19 | 27°32 | 7°51 | 26°59 | 11°25 | 10°33 | 23°11 |
| T 8 | 3 8 32 | 15°36'44 | 15°41 | 27°50 | 16°52 | 9°45 | 27°36 | 7°53 | 27° 0 | 11°25 | 10°34 | 23°11 |
| W 9 | 3 12 29 | 16°37'07 | 16°42 | 2♂44 | 18°30 | 10°12 | 27°41 | 7°55 | 27° 0 | 11°25 | 10°34 | 23°12 |
| T 10 | 3 16 25 | 17°37'31 | 17°44 | 7°47 | 20° 7 | 10°38 | 27°46 | 7°57 | 27° 1 | 11°26 | 10°34 | 23°13 |
| F 11 | 3 20 22 | 18°37'57 | 18°46 | 12°59 | 21°45 | 11° 5 | 27°51 | 7°59 | 27° 2 | 11°26 | 10°35 | 23°13 |
| S 12 | 3 24 18 | 19°38'25 | 19°47 | 18°20 | 23°22 | 11°31 | 27°56 | 8° 1 | 27° 2 | 11°26 | 10°35 | 23°14 |
| S 13 | 3 28 15 | 20°38'54 | 20°48 | 23°50 | 25° 0 | 11°58 | 28° 1 | 8° 3 | 27° 3 | 11°27 | 10°36 | 23°14 |
| M14 | 3 32 11 | 21°39'26 | 21°49 | 29°29 | 26°38 | 12°24 | 28° 6 | 8° 5 | 27° 4 | 11°27 | 10°36 | 23°15 |
| T 15 | 3 36 8 | 22°39'59 | 22°49 | 5♂17 | 28°15 | 12°51 | 28°10 | 8° 7 | 27° 5 | 11°27 | 10°36 | 23°16 |
| W16 | 3 40 5 | 23°40'34 | 23°49 | 11°11 | 29°53 | 13°17 | 28°15 | 8° 9 | 27° 5 | 11°28 | 10°37 | 23°16 |
| T 17 | 3 44 1 | 24°41'11 | 24°48 | 17°13 | 1♂30 | 13°44 | 28°20 | 8°11 | 27° 6 | 11°28 | 10°37 | 23°17 |
| F 18 | 3 47 58 | 25°41'50 | 25°47 | 23°21 | 3° 8 | 14°10 | 28°25 | 8°13 | 27° 7 | 11°29 | 10°38 | 23°18 |
| S 19 | 3 51 54 | 26°42'30 | 26°46 | 29°34 | 4°45 | 14°37 | 28°30 | 8°15 | 27° 8 | 11°29 | 10°38 | 23°18 |
| S 20 | 3 55 51 | 27°43'12 | 27°45 | 5♂50 | 6°23 | 15° 3 | 28°35 | 8°17 | 27° 8 | 11°29 | 10°38 | 23°19 |
| M21 | 3 59 47 | 28°43'55 | 28°44 | 12° 8 | 8° 0 | 15°30 | 28°40 | 8°19 | 27° 9 | 11°30 | 10°39 | 23°20 |
| T 22 | 4 3 44 | 29°44'40 | 29°42 | 18°28 | 9°38 | 15°56 | 28°44 | 8°21 | 27°10 | 11°30 | 10°39 | 23°20 |
| W23 | 4 7 40 | 0♂45'26 | 0♂41 | 24°46 | 11°15 | 16°22 | 28°49 | 8°22 | 27°11 | 11°30 | 10°40 | 23°21 |
| T 24 | 4 11 37 | 1°46'13 | 1°40 | 1♂2 | 12°52 | 16°49 | 28°54 | 8°24 | 27°11 | 11°31 | 10°40 | 23°22 |
| F 25 | 4 15 34 | 2°47'02 | 2°40 | 7°15 | 14°30 | 17°15 | 28°59 | 8°26 | 27°12 | 11°31 | 10°40 | 23°22 |
| S 26 | 4 19 30 | 3°47'51 | 3°40 | 13°22 | 16° 7 | 17°41 | 29° 4 | 8°28 | 27°13 | 11°32 | 10°41 | 23°23 |
| S 27 | 4 23 27 | 4°48'41 | 4°40 | 19°23 | 17°45 | 18° 8 | 29° 9 | 8°30 | 27°13 | 11°32 | 10°41 | 23°24 |
| M28 | 4 27 23 | 5°49'32 | 5°41 | 25°17 | 19°22 | 18°34 | 29°13 | 8°32 | 27°14 | 11°32 | 10°42 | 23°24 |
| T 29 | 4 31 20 | 6°50'23 | 6°42 | 1♂3 | 20°59 | 19° 1 | 29°18 | 8°34 | 27°15 | 11°33 | 10°42 | 23°25 |
| W30 | 4 35 16 | 7♂51'16 | 7♂43 | 6♂40 | 22♂36 | 19♂27 | 29♂23 | 8♂36 | 27♂16 | 11♂33 | 10♂43 | 23♂26 |

Delta T = 10.08 sec.

Greg. Calendar

DECEMBER 1729

00:00 UT

| Day | Sid.t | Terra | ☾ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ |
|------|---------|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| T 1 | 4 39 13 | 8♂52'09 | 8♂45 | 12♂2 | 24♂14 | 19♂53 | 29♂28 | 8♂38 | 27♂16 | 11♂33 | 10♂43 | 23♂26 |
| F 2 | 4 43 9 | 9°53'03 | 9°47 | 17°25 | 25°51 | 20°19 | 29°33 | 8°40 | 27°17 | 11°34 | 10°43 | 23°27 |
| S 3 | 4 47 6 | 10°53'58 | 10°50 | 22°34 | 27°28 | 20°46 | 29°38 | 8°42 | 27°18 | 11°34 | 10°44 | 23°28 |
| S 4 | 4 51 3 | 11°54'54 | 11°52 | 27°33 | 29° 5 | 21°12 | 29°43 | 8°44 | 27°19 | 11°34 | 10°44 | 23°28 |
| M 5 | 4 54 59 | 12°55'51 | 12°55 | 2♂22 | 0♂42 | 21°38 | 29°47 | 8°46 | 27°19 | 11°35 | 10°45 | 23°29 |
| T 6 | 4 58 56 | 13°56'49 | 13°58 | 7° 2 | 2°19 | 22° 5 | 29°52 | 8°48 | 27°20 | 11°35 | 10°45 | 23°29 |
| W 7 | 5 2 52 | 14°57'48 | 15° 0 | 11°33 | 3°56 | 22°31 | 29°57 | 8°50 | 27°21 | 11°36 | 10°45 | 23°30 |
| T 8 | 5 6 49 | 15°58'48 | 16° 3 | 15°56 | 5°33 | 22°57 | 0♂2 | 8°52 | 27°21 | 11°36 | 10°46 | 23°31 |
| F 9 | 5 10 45 | 16°59'48 | 17° 5 | 20°10 | 7°10 | 23°23 | 0° 7 | 8°54 | 27°22 | 11°36 | 10°46 | 23°31 |
| S 10 | 5 14 42 | 18° 0'50 | 18° 8 | 24°16 | 8°47 | 23°50 | 0°12 | 8°55 | 27°23 | 11°37 | 10°47 | 23°32 |
| S 11 | 5 18 38 | 19° 1'52 | 19°10 | 28°15 | 10°24 | 24°16 | 0°16 | 8°57 | 27°24 | 11°37 | 10°47 | 23°33 |
| M12 | 5 22 35 | 20° 2'55 | 20°12 | 2♂7 | 12° 1 | 24°42 | 0°21 | 8°59 | 27°24 | 11°37 | 10°47 | 23°33 |
| T 13 | 5 26 32 | 21° 4'00 | 21°13 | 5°53 | 13°38 | 25° 8 | 0°26 | 9° 1 | 27°25 | 11°38 | 10°48 | 23°34 |
| W14 | 5 30 28 | 22° 5'05 | 22°14 | 9°32 | 15°15 | 25°35 | 0°31 | 9° 3 | 27°26 | 11°38 | 10°48 | 23°35 |
| T 15 | 5 34 25 | 23° 6'11 | 23°15 | 13° 5 | 16°51 | 26° 1 | 0°36 | 9° 5 | 27°27 | 11°39 | 10°49 | 23°35 |
| F 16 | 5 38 21 | 24° 7'18 | 24°15 | 16°33 | 18°28 | 26°27 | 0°41 | 9° 7 | 27°27 | 11°39 | 10°49 | 23°36 |
| S 17 | 5 42 18 | 25° 8'26 | 25°15 | 19°57 | 20° 5 | 26°53 | 0°45 | 9° 9 | 27°28 | 11°39 | 10°49 | 23°37 |
| S 18 | 5 46 14 | 26° 9'34 | 26°14 | 23°15 | 21°41 | 27°20 | 0°50 | 9°11 | 27°29 | 11°40 | 10°50 | 23°37 |
| M19 | 5 50 11 | 27°10'44 | 27°13 | 26°30 | 23°18 | 27°46 | 0°55 | 9°13 | 27°29 | 11°40 | 10°50 | 23°38 |
| T 20 | 5 54 8 | 28°11'53 | 28°13 | 29°40 | 24°54 | 28°12 | 1° 0 | 9°15 | 27°30 | 11°40 | 10°51 | 23°39 |
| W21 | 5 58 4 | 29°13'04 | 29°12 | 2♂47 | 26°31 | 28°38 | 1° 5 | 9°17 | 27°31 | 11°41 | 10°51 | 23°39 |
| T 22 | 6 2 1 | 0♂14'14 | 0♂11 | 5°51 | 28° 7 | 29° 5 | 1°10 | 9°19 | 27°32 | 11°41 | 10°52 | 23°40 |
| F 23 | 6 5 57 | 1°15'25 | 1°10 | 8°51 | 29°43 | 29°31 | 1°14 | 9°21 | 27°32 | 11°41 | 10°52 | 23°41 |
| S 24 | 6 9 54 | 2°16'36 | 2°10 | 11°50 | 1♂20 | 29°57 | 1°19 | 9°23 | 27°33 | 11°42 | 10°52 | 23°41 |
| S 25 | 6 13 50 | 3°17'46 | 3°10 | 14°45 | 2°56 | 0♂23 | 1°24 | 9°25 | 27°34 | 11°42 | 10°53 | 23°42 |
| M26 | 6 17 47 | 4°18'57 | 4°10 | 17°39 | 4°32 | 0°49 | 1°29 | 9°27 | 27°35 | 11°43 | 10°53 | 23°43 |
| T 27 | 6 21 43 | 5°20'07 | 5°11 | 20°30 | 6° 8 | 1°16 | 1°34 | 9°29 | 27°35 | 11°43 | 10°54 | 23°43 |
| W28 | 6 25 40 | 6°21'17 | 6°12 | 23°20 | 7°44 | 1°42 | 1°39 | 9°30 | 27°36 | 11°43 | 10°54 | 23°44 |
| T 29 | 6 29 37 | 7°22'27 | 7°14 | 26° 9 | 9°20 | 2° 8 | 1°43 | 9°32 | 27°37 | 11°44 | 10°54 | 23°45 |
| F 30 | 6 33 33 | 8°23'37 | 8°16 | 28°56 | 10°56 | 2°34 | 1°48 | 9°34 | 27°38 | 11°44 | 10°55 | 23°45 |
| S 31 | 6 37 30 | 9♂24'46 | 9♂18 | 1♂43 | 12♂32 | 3♂0 | 1♂53 | 9♂36 | 27♂38 | 11♂44 | 10♂55 | 23♂46 |

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