

SWISS EPHEMERIS for the year 2127
heliocentric

JANUARY 2127

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| W 1 | 6 40 50 | 10♄ 2'22 | 10♄ 6 | 5♃44 | 9♂ 1 | 0♄28 | 14♄30 | 20♁33 | 16♁ 8 | 14♁ 6 | 29♂ 4 | 29♂28 |
| T 2 | 6 44 47 | 11° 3'30 | 11° 9 | 9°46 | 10°37 | 0°55 | 14°35 | 20°35 | 16° 8 | 14° 7 | 29° 5 | 29°28 |
| F 3 | 6 48 43 | 12° 4'38 | 12°12 | 13°55 | 12°12 | 1°21 | 14°40 | 20°37 | 16° 9 | 14° 7 | 29° 5 | 29°29 |
| S 4 | 6 52 40 | 13° 5'47 | 13°14 | 18°11 | 13°47 | 1°48 | 14°45 | 20°39 | 16°10 | 14° 7 | 29° 5 | 29°29 |
| S 5 | 6 56 36 | 14° 6'55 | 14°15 | 22°36 | 15°22 | 2°14 | 14°50 | 20°41 | 16°11 | 14° 8 | 29° 5 | 29°30 |
| M 6 | 7 0 33 | 15° 8'05 | 15°17 | 27° 8 | 16°57 | 2°41 | 14°55 | 20°43 | 16°12 | 14° 8 | 29° 5 | 29°31 |
| T 7 | 7 4 30 | 16° 9'14 | 16°18 | 1♂49 | 18°33 | 3° 8 | 15° 0 | 20°45 | 16°12 | 14° 8 | 29° 5 | 29°31 |
| W 8 | 7 8 26 | 17°10'24 | 17°18 | 6°39 | 20° 8 | 3°34 | 15° 5 | 20°47 | 16°13 | 14° 9 | 29° 6 | 29°32 |
| T 9 | 7 12 23 | 18°11'34 | 18°18 | 11°38 | 21°43 | 4° 1 | 15°10 | 20°49 | 16°14 | 14° 9 | 29° 6 | 29°33 |
| F 10 | 7 16 19 | 19°12'44 | 19°18 | 16°46 | 23°19 | 4°28 | 15°15 | 20°52 | 16°15 | 14°10 | 29° 6 | 29°33 |
| S 11 | 7 20 16 | 20°13'55 | 20°17 | 22° 3 | 24°54 | 4°55 | 15°20 | 20°54 | 16°15 | 14°10 | 29° 6 | 29°34 |
| S 12 | 7 24 12 | 21°15'05 | 21°17 | 27°29 | 26°29 | 5°21 | 15°25 | 20°56 | 16°16 | 14°10 | 29° 6 | 29°34 |
| M13 | 7 28 9 | 22°16'15 | 22°16 | 3♂ 4 | 28° 5 | 5°48 | 15°30 | 20°58 | 16°17 | 14°11 | 29° 6 | 29°35 |
| T 14 | 7 32 5 | 23°17'25 | 23°15 | 8°48 | 29°40 | 6°15 | 15°35 | 21° 0 | 16°18 | 14°11 | 29° 6 | 29°36 |
| W15 | 7 36 2 | 24°18'34 | 24°14 | 14°39 | 1♂15 | 6°42 | 15°40 | 21° 2 | 16°18 | 14°11 | 29° 7 | 29°36 |
| T 16 | 7 39 59 | 25°19'43 | 25°14 | 20°38 | 2°51 | 7° 9 | 15°45 | 21° 4 | 16°19 | 14°12 | 29° 7 | 29°37 |
| F 17 | 7 43 55 | 26°20'51 | 26°14 | 26°43 | 4°26 | 7°36 | 15°50 | 21° 6 | 16°20 | 14°12 | 29° 7 | 29°38 |
| S 18 | 7 47 52 | 27°21'58 | 27°14 | 2♁54 | 6° 2 | 8° 2 | 15°55 | 21° 8 | 16°21 | 14°12 | 29° 7 | 29°38 |
| S 19 | 7 51 48 | 28°23'05 | 28°14 | 9° 9 | 7°37 | 8°29 | 16° 0 | 21°10 | 16°21 | 14°13 | 29° 7 | 29°39 |
| M20 | 7 55 45 | 29°24'11 | 29°15 | 15°27 | 9°13 | 8°56 | 16° 5 | 21°12 | 16°22 | 14°13 | 29° 7 | 29°39 |
| T 21 | 7 59 41 | 0♁25'17 | 0♁16 | 21°46 | 10°48 | 9°23 | 16°10 | 21°14 | 16°23 | 14°13 | 29° 8 | 29°40 |
| W22 | 8 3 38 | 1°26'21 | 1°17 | 28° 5 | 12°24 | 9°50 | 16°15 | 21°16 | 16°24 | 14°14 | 29° 8 | 29°41 |
| T 23 | 8 7 34 | 2°27'25 | 2°19 | 4♄23 | 14° 0 | 10°17 | 16°20 | 21°18 | 16°25 | 14°14 | 29° 8 | 29°41 |
| F 24 | 8 11 31 | 3°28'28 | 3°21 | 10°37 | 15°35 | 10°44 | 16°25 | 21°21 | 16°25 | 14°15 | 29° 8 | 29°42 |
| S 25 | 8 15 28 | 4°29'30 | 4°24 | 16°47 | 17°11 | 11°11 | 16°30 | 21°23 | 16°26 | 14°15 | 29° 8 | 29°43 |
| S 26 | 8 19 24 | 5°30'31 | 5°26 | 22°51 | 18°46 | 11°38 | 16°35 | 21°25 | 16°27 | 14°15 | 29° 8 | 29°43 |
| M27 | 8 23 21 | 6°31'31 | 6°29 | 28°49 | 20°22 | 12° 5 | 16°40 | 21°27 | 16°28 | 14°16 | 29° 8 | 29°44 |
| T 28 | 8 27 17 | 7°32'30 | 7°32 | 4♁38 | 21°58 | 12°32 | 16°45 | 21°29 | 16°28 | 14°16 | 29° 9 | 29°44 |
| W29 | 8 31 14 | 8°33'29 | 8°35 | 10°20 | 23°34 | 13° 0 | 16°50 | 21°31 | 16°29 | 14°16 | 29° 9 | 29°45 |
| T 30 | 8 35 10 | 9°34'26 | 9°38 | 15°52 | 25° 9 | 13°27 | 16°55 | 21°33 | 16°30 | 14°17 | 29° 9 | 29°46 |
| F 31 | 8 39 7 | 10♁35'23 | 10♁40 | 21♁14 | 26♂45 | 13♄54 | 17♄ 0 | 21♁35 | 16♁31 | 14♁17 | 29♂ 9 | 29♂46 |

Delta T = 272.17 sec.

FEBRUARY 2127

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| S 1 | 8 43 3 | 11♁36'19 | 11♁43 | 26♁27 | 28♂21 | 14♄21 | 17♄ 5 | 21♁37 | 16♁31 | 14♁17 | 29♂ 9 | 29♂47 |
| S 2 | 8 47 0 | 12°37'15 | 12°45 | 1♁30 | 29°57 | 14°48 | 17°10 | 21°39 | 16°32 | 14°18 | 29° 9 | 29°47 |
| M 3 | 8 50 57 | 13°38'09 | 13°46 | 6°24 | 1♂33 | 15°16 | 17°15 | 21°41 | 16°33 | 14°18 | 29°10 | 29°48 |
| T 4 | 8 54 53 | 14°39'03 | 14°48 | 11° 8 | 3° 9 | 15°43 | 17°20 | 21°43 | 16°34 | 14°18 | 29°10 | 29°49 |
| W 5 | 8 58 50 | 15°39'56 | 15°48 | 15°43 | 4°45 | 16°10 | 17°25 | 21°45 | 16°34 | 14°19 | 29°10 | 29°49 |
| T 6 | 9 2 46 | 16°40'49 | 16°49 | 20° 9 | 6°21 | 16°37 | 17°30 | 21°47 | 16°35 | 14°19 | 29°10 | 29°50 |
| F 7 | 9 6 43 | 17°41'41 | 17°49 | 24°27 | 7°57 | 17° 5 | 17°35 | 21°49 | 16°36 | 14°20 | 29°10 | 29°51 |
| S 8 | 9 10 39 | 18°42'31 | 18°48 | 28°37 | 9°33 | 17°32 | 17°40 | 21°52 | 16°37 | 14°20 | 29°10 | 29°51 |
| S 9 | 9 14 36 | 19°43'21 | 19°48 | 2♄39 | 11° 9 | 18° 0 | 17°45 | 21°54 | 16°37 | 14°20 | 29°10 | 29°52 |
| M10 | 9 18 32 | 20°44'10 | 20°47 | 6°34 | 12°45 | 18°27 | 17°50 | 21°56 | 16°38 | 14°21 | 29°11 | 29°52 |
| T 11 | 9 22 29 | 21°44'58 | 21°46 | 10°22 | 14°21 | 18°55 | 17°55 | 21°58 | 16°39 | 14°21 | 29°11 | 29°53 |
| W12 | 9 26 26 | 22°45'44 | 22°45 | 14° 4 | 15°57 | 19°22 | 18° 0 | 22° 0 | 16°40 | 14°21 | 29°11 | 29°54 |
| T 13 | 9 30 22 | 23°46'29 | 23°43 | 17°40 | 17°33 | 19°50 | 18° 5 | 22° 2 | 16°41 | 14°22 | 29°11 | 29°54 |
| F 14 | 9 34 19 | 24°47'12 | 24°43 | 21°10 | 19° 9 | 20°17 | 18°10 | 22° 4 | 16°41 | 14°22 | 29°11 | 29°55 |
| S 15 | 9 38 15 | 25°47'54 | 25°42 | 24°36 | 20°45 | 20°45 | 18°15 | 22° 6 | 16°42 | 14°22 | 29°11 | 29°56 |
| S 16 | 9 42 12 | 26°48'35 | 26°41 | 27°56 | 22°22 | 21°12 | 18°20 | 22° 8 | 16°43 | 14°23 | 29°12 | 29°56 |
| M17 | 9 46 8 | 27°49'14 | 27°41 | 1♁12 | 23°58 | 21°40 | 18°25 | 22°10 | 16°44 | 14°23 | 29°12 | 29°57 |
| T 18 | 9 50 5 | 28°49'51 | 28°41 | 4°24 | 25°34 | 22° 8 | 18°30 | 22°12 | 16°44 | 14°23 | 29°12 | 29°57 |
| W19 | 9 54 1 | 29°50'26 | 29°41 | 7°33 | 27°10 | 22°35 | 18°35 | 22°14 | 16°45 | 14°24 | 29°12 | 29°58 |
| T 20 | 9 57 58 | 0♁51'00 | 0♁42 | 10°38 | 28°47 | 23° 3 | 18°40 | 22°16 | 16°46 | 14°24 | 29°12 | 29°59 |
| F 21 | 10 1 55 | 1°51'32 | 1°43 | 13°40 | 0♁23 | 23°31 | 18°45 | 22°18 | 16°47 | 14°24 | 29°12 | 29°59 |
| S 22 | 10 5 51 | 2°52'02 | 2°44 | 16°39 | 1°59 | 23°59 | 18°50 | 22°20 | 16°47 | 14°25 | 29°12 | 29°59 |
| S 23 | 10 9 48 | 3°52'31 | 3°46 | 19°36 | 3°36 | 24°26 | 18°55 | 22°22 | 16°48 | 14°25 | 29°13 | 0♂ 1 |
| M24 | 10 13 44 | 4°52'57 | 4°48 | 22°30 | 5°12 | 24°54 | 19° 0 | 22°25 | 16°49 | 14°26 | 29°13 | 0° 1 |
| T 25 | 10 17 41 | 5°53'22 | 5°50 | 25°23 | 6°49 | 25°22 | 19° 5 | 22°27 | 16°50 | 14°26 | 29°13 | 0° 2 |
| W26 | 10 21 37 | 6°53'45 | 6°52 | 28°14 | 8°25 | 25°50 | 19°10 | 22°29 | 16°50 | 14°26 | 29°13 | 0° 2 |
| T 27 | 10 25 34 | 7°54'06 | 7°54 | 1♂ 3 | 10° 2 | 26°18 | 19°15 | 22°31 | 16°51 | 14°27 | 29°13 | 0° 3 |
| F 28 | 10 29 30 | 8♁54'26 | 8♁57 | 3♂51 | 11♁38 | 26♄46 | 19♄20 | 22♁33 | 16♁52 | 14♁27 | 29♂13 | 0♂ 4 |

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SWISS EPHEMERIS for the year 2127
heliocentric

MARCH 2127

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| S 1 | 10 33 27 | 9♎54'44 | 9♎59 | 6♌37 | 13♏15 | 27♌14 | 19♌26 | 22♎35 | 16♏53 | 14♎27 | 29♎14 | 0♎4 |
| S 2 | 10 37 24 | 10°55'00 | 11° 1 | 9°23 | 14°52 | 27°42 | 19°31 | 22°37 | 16°53 | 14°28 | 29°14 | 0° 5 |
| M 3 | 10 41 20 | 11°55'15 | 12° 2 | 12° 9 | 16°28 | 28°10 | 19°36 | 22°39 | 16°54 | 14°28 | 29°14 | 0° 6 |
| T 4 | 10 45 17 | 12°55'28 | 13° 3 | 14°54 | 18° 5 | 28°38 | 19°41 | 22°41 | 16°55 | 14°28 | 29°14 | 0° 6 |
| W 5 | 10 49 13 | 13°55'40 | 14° 4 | 17°38 | 19°42 | 29° 7 | 19°46 | 22°43 | 16°56 | 14°29 | 29°14 | 0° 7 |
| T 6 | 10 53 10 | 14°55'51 | 15° 4 | 20°23 | 21°18 | 29°35 | 19°51 | 22°45 | 16°57 | 14°29 | 29°14 | 0° 7 |
| F 7 | 10 57 6 | 15°56'00 | 16° 4 | 23° 8 | 22°55 | 0♎3 | 19°56 | 22°47 | 16°57 | 14°29 | 29°14 | 0° 8 |
| S 8 | 11 1 3 | 16°56'07 | 17° 4 | 25°53 | 24°32 | 0°31 | 20° 1 | 22°49 | 16°58 | 14°30 | 29°15 | 0° 9 |
| S 9 | 11 4 59 | 17°56'13 | 18° 3 | 28°39 | 26° 9 | 1° 0 | 20° 6 | 22°51 | 16°59 | 14°30 | 29°15 | 0° 9 |
| M10 | 11 8 56 | 18°56'17 | 19° 2 | 1♌26 | 27°46 | 1°28 | 20°11 | 22°53 | 17° 0 | 14°31 | 29°15 | 0°10 |
| T 11 | 11 12 53 | 19°56'20 | 20° 0 | 4°13 | 29°23 | 1°56 | 20°16 | 22°55 | 17° 0 | 14°31 | 29°15 | 0°11 |
| W12 | 11 16 49 | 20°56'21 | 20°58 | 7° 2 | 1♌0 | 2°25 | 20°21 | 22°58 | 17° 1 | 14°31 | 29°15 | 0°11 |
| T 13 | 11 20 46 | 21°56'19 | 21°56 | 9°52 | 2°37 | 2°53 | 20°26 | 23° 0 | 17° 2 | 14°32 | 29°15 | 0°12 |
| F 14 | 11 24 42 | 22°56'16 | 22°55 | 12°44 | 4°14 | 3°22 | 20°31 | 23° 2 | 17° 3 | 14°32 | 29°16 | 0°12 |
| S 15 | 11 28 39 | 23°56'11 | 23°53 | 15°38 | 5°51 | 3°50 | 20°36 | 23° 4 | 17° 3 | 14°32 | 29°16 | 0°13 |
| S 16 | 11 32 35 | 24°56'04 | 24°51 | 18°34 | 7°28 | 4°19 | 20°41 | 23° 6 | 17° 4 | 14°33 | 29°16 | 0°14 |
| M17 | 11 36 32 | 25°55'55 | 25°49 | 21°32 | 9° 5 | 4°48 | 20°46 | 23° 8 | 17° 5 | 14°33 | 29°16 | 0°14 |
| T 18 | 11 40 28 | 26°55'44 | 26°48 | 24°33 | 10°42 | 5°16 | 20°51 | 23°10 | 17° 6 | 14°33 | 29°16 | 0°15 |
| W19 | 11 44 25 | 27°55'30 | 27°47 | 27°37 | 12°19 | 5°45 | 20°56 | 23°12 | 17° 6 | 14°34 | 29°16 | 0°16 |
| T 20 | 11 48 21 | 28°55'14 | 28°46 | 0♎44 | 13°56 | 6°14 | 21° 1 | 23°14 | 17° 7 | 14°34 | 29°16 | 0°16 |
| F 21 | 11 52 18 | 29°54'57 | 29°46 | 3°54 | 15°33 | 6°42 | 21° 6 | 23°16 | 17° 8 | 14°34 | 29°17 | 0°17 |
| S 22 | 11 56 15 | 0♎54'36 | 0♎46 | 7° 8 | 17°10 | 7°11 | 21°11 | 23°18 | 17° 9 | 14°35 | 29°17 | 0°17 |
| S 23 | 12 0 11 | 1°54'14 | 1°46 | 10°26 | 18°48 | 7°40 | 21°16 | 23°20 | 17° 9 | 14°35 | 29°17 | 0°18 |
| M24 | 12 4 8 | 2°53'49 | 2°46 | 13°48 | 20°25 | 8° 9 | 21°21 | 23°22 | 17°10 | 14°35 | 29°17 | 0°19 |
| T 25 | 12 8 4 | 3°53'22 | 3°47 | 17°15 | 22° 2 | 8°38 | 21°26 | 23°24 | 17°11 | 14°36 | 29°17 | 0°19 |
| W26 | 12 12 1 | 4°52'53 | 4°48 | 20°47 | 23°39 | 9° 7 | 21°31 | 23°26 | 17°12 | 14°36 | 29°17 | 0°20 |
| T 27 | 12 15 57 | 5°52'21 | 5°50 | 24°24 | 25°17 | 9°36 | 21°37 | 23°28 | 17°13 | 14°37 | 29°17 | 0°21 |
| F 28 | 12 19 54 | 6°51'48 | 6°51 | 28° 7 | 26°54 | 10° 5 | 21°42 | 23°31 | 17°13 | 14°37 | 29°18 | 0°21 |
| S 29 | 12 23 50 | 7°51'12 | 7°52 | 1♌56 | 28°31 | 10°34 | 21°47 | 23°33 | 17°14 | 14°37 | 29°18 | 0°22 |
| S 30 | 12 27 47 | 8°50'34 | 8°54 | 5°51 | 0♎9 | 11° 3 | 21°52 | 23°35 | 17°15 | 14°38 | 29°18 | 0°22 |
| MB1 | 12 31 44 | 9♎49'55 | 9♎55 | 9♌53 | 1♎46 | 11♎32 | 21♌57 | 23♎37 | 17♎16 | 14♎38 | 29♎18 | 0♎23 |

Delta T = 272.48 sec.

APRIL 2127

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| T 1 | 12 35 40 | 10♎49'13 | 10♎56 | 14♌3 | 3♎24 | 12♎2 | 22♌2 | 23♎39 | 17♎16 | 14♎38 | 29♎18 | 0♎24 |
| W 2 | 12 39 37 | 11°48'30 | 11°56 | 18°19 | 5° 1 | 12°31 | 22° 7 | 23°41 | 17°17 | 14°39 | 29°18 | 0°24 |
| T 3 | 12 43 33 | 12°47'46 | 12°56 | 22°44 | 6°38 | 13° 0 | 22°12 | 23°43 | 17°18 | 14°39 | 29°19 | 0°25 |
| F 4 | 12 47 30 | 13°46'59 | 13°56 | 27°17 | 8°16 | 13°30 | 22°17 | 23°45 | 17°19 | 14°39 | 29°19 | 0°26 |
| S 5 | 12 51 26 | 14°46'11 | 14°55 | 1°58 | 9°53 | 13°59 | 22°22 | 23°47 | 17°19 | 14°40 | 29°19 | 0°26 |
| S 6 | 12 55 23 | 15°45'20 | 15°53 | 6°48 | 11°31 | 14°28 | 22°27 | 23°49 | 17°20 | 14°40 | 29°19 | 0°27 |
| M 7 | 12 59 19 | 16°44'29 | 16°52 | 11°47 | 13° 8 | 14°58 | 22°32 | 23°51 | 17°21 | 14°40 | 29°19 | 0°27 |
| T 8 | 13 3 16 | 17°43'35 | 17°50 | 16°56 | 14°46 | 15°27 | 22°37 | 23°53 | 17°22 | 14°41 | 29°19 | 0°28 |
| W 9 | 13 7 12 | 18°42'39 | 18°47 | 22°13 | 16°23 | 15°57 | 22°42 | 23°55 | 17°22 | 14°41 | 29°19 | 0°29 |
| T 10 | 13 11 9 | 19°41'42 | 19°45 | 27°39 | 18° 1 | 16°27 | 22°47 | 23°57 | 17°23 | 14°41 | 29°20 | 0°29 |
| F 11 | 13 15 6 | 20°40'42 | 20°42 | 3♌15 | 19°38 | 16°56 | 22°52 | 23°59 | 17°24 | 14°42 | 29°20 | 0°30 |
| S 12 | 13 19 2 | 21°39'41 | 21°39 | 8°58 | 21°16 | 17°26 | 22°57 | 24° 1 | 17°25 | 14°42 | 29°20 | 0°31 |
| S 13 | 13 22 59 | 22°38'37 | 22°36 | 14°50 | 22°53 | 17°56 | 23° 2 | 24° 3 | 17°26 | 14°43 | 29°20 | 0°31 |
| M14 | 13 26 55 | 23°37'32 | 23°34 | 20°49 | 24°31 | 18°26 | 23° 7 | 24° 5 | 17°26 | 14°43 | 29°20 | 0°32 |
| T 15 | 13 30 52 | 24°36'24 | 24°31 | 26°55 | 26° 8 | 18°56 | 23°13 | 24° 8 | 17°27 | 14°43 | 29°20 | 0°32 |
| W16 | 13 34 48 | 25°35'14 | 25°29 | 3♏5 | 27°46 | 19°25 | 23°18 | 24°10 | 17°28 | 14°44 | 29°21 | 0°33 |
| T 17 | 13 38 45 | 26°34'02 | 26°26 | 9°20 | 29°23 | 19°55 | 23°23 | 24°12 | 17°29 | 14°44 | 29°21 | 0°34 |
| F 18 | 13 42 41 | 27°32'48 | 27°24 | 15°38 | 1♎1 | 20°25 | 23°28 | 24°14 | 17°29 | 14°44 | 29°21 | 0°34 |
| S 19 | 13 46 38 | 28°31'32 | 28°23 | 21°58 | 2°39 | 20°55 | 23°33 | 24°16 | 17°30 | 14°45 | 29°21 | 0°35 |
| S 20 | 13 50 35 | 29°30'13 | 29°21 | 28°17 | 4°16 | 21°26 | 23°38 | 24°18 | 17°31 | 14°45 | 29°21 | 0°36 |
| M21 | 13 54 31 | 0♎28'53 | 0♎20 | 4♌34 | 5°53 | 21°56 | 23°43 | 24°20 | 17°32 | 14°45 | 29°21 | 0°36 |
| T 22 | 13 58 28 | 1°27'30 | 1°20 | 10°49 | 7°31 | 22°26 | 23°48 | 24°22 | 17°32 | 14°46 | 29°21 | 0°37 |
| W23 | 14 2 24 | 2°26'04 | 2°19 | 16°58 | 9° 8 | 22°56 | 23°53 | 24°24 | 17°33 | 14°46 | 29°22 | 0°37 |
| T 24 | 14 6 21 | 3°24'37 | 3°19 | 23° 3 | 10°46 | 23°26 | 23°58 | 24°26 | 17°34 | 14°46 | 29°22 | 0°38 |
| F 25 | 14 10 17 | 4°23'07 | 4°20 | 29° 0 | 12°23 | 23°57 | 24° 3 | 24°28 | 17°35 | 14°47 | 29°22 | 0°39 |
| S 26 | 14 14 14 | 5°21'36 | 5°20 | 4♎49 | 14° 1 | 24°27 | 24° 8 | 24°30 | 17°35 | 14°47 | 29°22 | 0°39 |
| S 27 | 14 18 10 | 6°20'02 | 6°21 | 10°30 | 15°38 | 24°58 | 24°13 | 24°32 | 17°36 | 14°48 | 29°22 | 0°40 |
| M28 | 14 22 7 | 7°18'27 | 7°21 | 16° 2 | 17°16 | 25°28 | 24°18 | 24°34 | 17°37 | 14°48 | 29°22 | 0°41 |
| T 29 | 14 26 4 | 8°16'50 | 8°21 | 21°24 | 18°53 | 25°59 | 24°23 | 24°36 | 17°38 | 14°48 | 29°23 | 0°41 |
| W30 | 14 30 0 | 9♎15'11 | 9♎21 | 26♎37 | 20♎30 | 26♎29 | 24♌29 | 24♎38 | 17♎38 | 14♎49 | 29♎23 | 0♎42 |

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SWISS EPHEMERIS for the year 2127
heliocentric

MAY 2127

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| T 1 | 14 33 57 | 10♁13'31 | 10♁21 | 1♃40 | 22♃8 | 27♁0 | 24♃34 | 24♃40 | 17♁39 | 14♁49 | 29♃23 | 0♃42 |
| F 2 | 14 37 53 | 11°11'49 | 11°20 | 6°33 | 23°45 | 27°31 | 24°39 | 24°42 | 17°40 | 14°49 | 29°23 | 0°43 |
| S 3 | 14 41 50 | 12°10'06 | 12°19 | 11°17 | 25°22 | 28° 1 | 24°44 | 24°45 | 17°41 | 14°50 | 29°23 | 0°44 |
| S 4 | 14 45 46 | 13° 8'21 | 13°17 | 15°52 | 26°59 | 28°32 | 24°49 | 24°47 | 17°42 | 14°50 | 29°23 | 0°44 |
| M 5 | 14 49 43 | 14° 6'35 | 14°15 | 20°18 | 28°37 | 29° 3 | 24°54 | 24°49 | 17°42 | 14°50 | 29°23 | 0°45 |
| T 6 | 14 53 39 | 15° 4'47 | 15°13 | 24°35 | 0♁14 | 29°34 | 24°59 | 24°51 | 17°43 | 14°51 | 29°24 | 0°46 |
| W 7 | 14 57 36 | 16° 2'58 | 16°10 | 28°45 | 1°51 | 0♁ 5 | 25° 4 | 24°53 | 17°44 | 14°51 | 29°24 | 0°46 |
| T 8 | 15 1 33 | 17° 1'07 | 17° 7 | 2♁46 | 3°28 | 0°36 | 25° 9 | 24°55 | 17°45 | 14°51 | 29°24 | 0°47 |
| F 9 | 15 5 29 | 17°59'14 | 18° 3 | 6°41 | 5° 5 | 1° 7 | 25°14 | 24°57 | 17°45 | 14°52 | 29°24 | 0°47 |
| S 10 | 15 9 26 | 18°57'21 | 19° 0 | 10°29 | 6°42 | 1°38 | 25°19 | 24°59 | 17°46 | 14°52 | 29°24 | 0°48 |
| S 11 | 15 13 22 | 19°55'25 | 19°56 | 14°11 | 8°19 | 2° 9 | 25°24 | 25° 1 | 17°47 | 14°52 | 29°24 | 0°49 |
| M12 | 15 17 19 | 20°53'28 | 20°53 | 17°47 | 9°56 | 2°41 | 25°29 | 25° 3 | 17°48 | 14°53 | 29°25 | 0°49 |
| T 13 | 15 21 15 | 21°51'29 | 21°49 | 21°17 | 11°33 | 3°12 | 25°35 | 25° 5 | 17°48 | 14°53 | 29°25 | 0°50 |
| W14 | 15 25 12 | 22°49'29 | 22°45 | 24°42 | 13°10 | 3°43 | 25°40 | 25° 7 | 17°49 | 14°54 | 29°25 | 0°51 |
| T 15 | 15 29 8 | 23°47'27 | 23°42 | 28° 2 | 14°47 | 4°15 | 25°45 | 25° 9 | 17°50 | 14°54 | 29°25 | 0°51 |
| F 16 | 15 33 5 | 24°45'24 | 24°38 | 1♁18 | 16°24 | 4°46 | 25°50 | 25°11 | 17°51 | 14°54 | 29°25 | 0°52 |
| S 17 | 15 37 2 | 25°43'18 | 25°35 | 4°30 | 18° 1 | 5°18 | 25°55 | 25°13 | 17°51 | 14°55 | 29°25 | 0°52 |
| S 18 | 15 40 58 | 26°41'11 | 26°33 | 7°39 | 19°37 | 5°49 | 26° 0 | 25°15 | 17°52 | 14°55 | 29°25 | 0°53 |
| M19 | 15 44 55 | 27°39'02 | 27°30 | 10°44 | 21°14 | 6°21 | 26° 5 | 25°17 | 17°53 | 14°55 | 29°26 | 0°54 |
| T 20 | 15 48 51 | 28°36'52 | 28°28 | 13°46 | 22°51 | 6°52 | 26°10 | 25°19 | 17°54 | 14°56 | 29°26 | 0°54 |
| W21 | 15 52 48 | 29°34'39 | 29°27 | 16°45 | 24°27 | 7°24 | 26°15 | 25°22 | 17°55 | 14°56 | 29°26 | 0°55 |
| T 22 | 15 56 44 | 0♁32'25 | 0♁25 | 19°41 | 26° 4 | 7°56 | 26°20 | 25°24 | 17°55 | 14°56 | 29°26 | 0°56 |
| F 23 | 16 0 41 | 1°30'09 | 1°25 | 22°36 | 27°40 | 8°28 | 26°25 | 25°26 | 17°56 | 14°57 | 29°26 | 0°56 |
| S 24 | 16 4 37 | 2°27'52 | 2°24 | 25°28 | 29°17 | 9° 0 | 26°30 | 25°28 | 17°57 | 14°57 | 29°26 | 0°57 |
| S 25 | 16 8 34 | 3°25'33 | 3°23 | 28°19 | 0♁53 | 9°31 | 26°36 | 25°30 | 17°58 | 14°57 | 29°27 | 0°57 |
| M26 | 16 12 31 | 4°23'13 | 4°23 | 1♁ 8 | 2°30 | 10° 3 | 26°41 | 25°32 | 17°58 | 14°58 | 29°27 | 0°58 |
| T 27 | 16 16 27 | 5°20'52 | 5°23 | 3°56 | 4° 6 | 10°36 | 26°46 | 25°34 | 17°59 | 14°58 | 29°27 | 0°59 |
| W28 | 16 20 24 | 6°18'29 | 6°22 | 6°43 | 5°42 | 11° 8 | 26°51 | 25°36 | 18° 0 | 14°59 | 29°27 | 0°59 |
| T 29 | 16 24 20 | 7°16'05 | 7°22 | 9°29 | 7°19 | 11°40 | 26°56 | 25°38 | 18° 1 | 14°59 | 29°27 | 1° 0 |
| F 30 | 16 28 17 | 8°13'41 | 8°21 | 12°14 | 8°55 | 12°12 | 27° 1 | 25°40 | 18° 1 | 14°59 | 29°27 | 1° 1 |
| S 31 | 16 32 13 | 9♁11'15 | 9♁19 | 14♁59 | 10♁31 | 12♁44 | 27♃ 6 | 25♃42 | 18♁ 2 | 15♁ 0 | 29♃27 | 1♃ 1 |

Delta T = 272.80 sec.

JUNE 2127

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| S 1 | 16 36 10 | 10♁ 8'49 | 10♁17 | 17♁44 | 12♁ 7 | 13♁17 | 27♃11 | 25♃44 | 18♁ 3 | 15♁ 0 | 29♃28 | 1♃ 2 |
| M 2 | 16 40 6 | 11° 6'21 | 11°15 | 20°28 | 13°43 | 13°49 | 27°16 | 25°46 | 18° 4 | 15° 0 | 29°28 | 1° 2 |
| T 3 | 16 44 3 | 12° 3'53 | 12°13 | 23°13 | 15°19 | 14°21 | 27°21 | 25°48 | 18° 4 | 15° 1 | 29°28 | 1° 3 |
| W 4 | 16 48 0 | 13° 1'24 | 13°10 | 25°58 | 16°55 | 14°54 | 27°27 | 25°50 | 18° 5 | 15° 1 | 29°28 | 1° 4 |
| T 5 | 16 51 56 | 13°58'54 | 14° 6 | 28°44 | 18°31 | 15°27 | 27°32 | 25°52 | 18° 6 | 15° 1 | 29°28 | 1° 4 |
| F 6 | 16 55 53 | 14°56'24 | 15° 3 | 1♁31 | 20° 7 | 15°59 | 27°37 | 25°54 | 18° 7 | 15° 2 | 29°28 | 1° 5 |
| S 7 | 16 59 49 | 15°53'52 | 15°59 | 4°19 | 21°43 | 16°32 | 27°42 | 25°56 | 18° 7 | 15° 2 | 29°29 | 1° 6 |
| S 8 | 17 3 46 | 16°51'20 | 16°55 | 7° 7 | 23°19 | 17° 5 | 27°47 | 25°58 | 18° 8 | 15° 2 | 29°29 | 1° 6 |
| M 9 | 17 7 42 | 17°48'47 | 17°51 | 9°58 | 24°55 | 17°37 | 27°52 | 26° 0 | 18° 9 | 15° 3 | 29°29 | 1° 7 |
| T 10 | 17 11 39 | 18°46'13 | 18°46 | 12°50 | 26°30 | 18°10 | 27°57 | 26° 3 | 18°10 | 15° 3 | 29°29 | 1° 7 |
| W11 | 17 15 35 | 19°43'39 | 19°42 | 15°44 | 28° 6 | 18°43 | 28° 2 | 26° 5 | 18°11 | 15° 4 | 29°29 | 1° 8 |
| T 12 | 17 19 32 | 20°41'03 | 20°38 | 18°40 | 29°42 | 19°16 | 28° 7 | 26° 7 | 18°11 | 15° 4 | 29°29 | 1° 9 |
| F 13 | 17 23 29 | 21°38'27 | 21°34 | 21°38 | 1♁17 | 19°49 | 28°12 | 26° 9 | 18°12 | 15° 4 | 29°30 | 1° 9 |
| S 14 | 17 27 25 | 22°35'50 | 22°30 | 24°39 | 2°53 | 20°22 | 28°18 | 26°11 | 18°13 | 15° 5 | 29°30 | 1°10 |
| S 15 | 17 31 22 | 23°33'11 | 23°26 | 27°43 | 4°29 | 20°55 | 28°23 | 26°13 | 18°14 | 15° 5 | 29°30 | 1°11 |
| M16 | 17 35 18 | 24°30'32 | 24°22 | 0♁50 | 6° 4 | 21°28 | 28°28 | 26°15 | 18°14 | 15° 5 | 29°30 | 1°11 |
| T 17 | 17 39 15 | 25°27'52 | 25°19 | 4° 0 | 7°39 | 22° 2 | 28°33 | 26°17 | 18°15 | 15° 6 | 29°30 | 1°12 |
| W18 | 17 43 11 | 26°25'10 | 26°17 | 7°14 | 9°15 | 22°35 | 28°38 | 26°19 | 18°16 | 15° 6 | 29°30 | 1°13 |
| T 19 | 17 47 8 | 27°22'28 | 27°14 | 10°32 | 10°50 | 23° 8 | 28°43 | 26°21 | 18°17 | 15° 6 | 29°30 | 1°13 |
| F 20 | 17 51 4 | 28°19'45 | 28°13 | 13°55 | 12°26 | 23°42 | 28°48 | 26°23 | 18°17 | 15° 7 | 29°31 | 1°14 |
| S 21 | 17 55 1 | 29°17'01 | 29°11 | 17°22 | 14° 1 | 24°15 | 28°53 | 26°25 | 18°18 | 15° 7 | 29°31 | 1°14 |
| S 22 | 17 58 58 | 0♁14'17 | 0♁10 | 20°54 | 15°36 | 24°49 | 28°58 | 26°27 | 18°19 | 15° 7 | 29°31 | 1°15 |
| M23 | 18 2 54 | 1°11'32 | 1° 9 | 24°31 | 17°12 | 25°22 | 29° 4 | 26°29 | 18°20 | 15° 8 | 29°31 | 1°16 |
| T 24 | 18 6 51 | 2° 8'46 | 2° 8 | 28°14 | 18°47 | 25°56 | 29° 9 | 26°31 | 18°20 | 15° 8 | 29°31 | 1°16 |
| W25 | 18 10 47 | 3° 6'00 | 3° 7 | 2♁ 3 | 20°22 | 26°30 | 29°14 | 26°33 | 18°21 | 15° 9 | 29°31 | 1°17 |
| T 26 | 18 14 44 | 4° 3'13 | 4° 6 | 5°59 | 21°57 | 27° 4 | 29°19 | 26°35 | 18°22 | 15° 9 | 29°32 | 1°18 |
| F 27 | 18 18 40 | 5° 0'26 | 5° 5 | 10° 1 | 23°32 | 27°37 | 29°24 | 26°37 | 18°23 | 15° 9 | 29°32 | 1°18 |
| S 28 | 18 22 37 | 5°57'39 | 6° 4 | 14°10 | 25° 7 | 28°11 | 29°29 | 26°39 | 18°24 | 15°10 | 29°32 | 1°19 |
| S 29 | 18 26 33 | 6°54'52 | 7° 2 | 18°27 | 26°43 | 28°45 | 29°34 | 26°41 | 18°24 | 15°10 | 29°32 | 1°19 |
| M30 | 18 30 30 | 7♁52'05 | 8♁ 1 | 22♁52 | 28♁18 | 29♁19 | 29♁39 | 26♃44 | 18♁25 | 15♁10 | 29♁32 | 1♁20 |

Delta T = 272.96 sec.

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SWISS EPHEMERIS for the year 2127
heliocentric

JULY 2127

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| T 1 | 18 34 27 | 8♃49'18 | 8♃58 | 27♃25 | 29♃53 | 29♃53 | 29♃44 | 26♁46 | 18♂26 | 15♁11 | 29♃32 | 1♃21 |
| W 2 | 18 38 23 | 9°46'30 | 9°56 | 2♃7 | 1♃28 | 0♃27 | 29°50 | 26°48 | 18°27 | 15°11 | 29°32 | 1°21 |
| T 3 | 18 42 20 | 10°43'43 | 10°52 | 6°57 | 3°3 | 1°1 | 29°55 | 26°50 | 18°27 | 15°11 | 29°33 | 1°22 |
| F 4 | 18 46 16 | 11°40'56 | 11°49 | 11°57 | 4°38 | 1°36 | 29°59 | 26°52 | 18°28 | 15°12 | 29°33 | 1°23 |
| S 5 | 18 50 13 | 12°38'10 | 12°45 | 17°5 | 6°13 | 2°10 | 0♁5 | 26°54 | 18°29 | 15°12 | 29°33 | 1°23 |
| S 6 | 18 54 9 | 13°35'23 | 13°41 | 22°23 | 7°48 | 2°44 | 0°10 | 26°56 | 18°30 | 15°12 | 29°33 | 1°24 |
| M 7 | 18 58 6 | 14°32'36 | 14°37 | 27°50 | 9°23 | 3°19 | 0°15 | 26°58 | 18°30 | 15°13 | 29°33 | 1°24 |
| T 8 | 19 2 2 | 15°29'50 | 15°33 | 3♃25 | 10°58 | 3°53 | 0°20 | 27°0 | 18°31 | 15°13 | 29°33 | 1°25 |
| W 9 | 19 5 59 | 16°27'04 | 16°28 | 9°9 | 12°33 | 4°28 | 0°25 | 27°2 | 18°32 | 15°13 | 29°34 | 1°26 |
| T 10 | 19 9 56 | 17°24'18 | 17°24 | 15°1 | 14°7 | 5°2 | 0°31 | 27°4 | 18°33 | 15°14 | 29°34 | 1°26 |
| F 11 | 19 13 52 | 18°21'31 | 18°19 | 21°0 | 15°42 | 5°37 | 0°36 | 27°6 | 18°33 | 15°14 | 29°34 | 1°27 |
| S 12 | 19 17 49 | 19°18'45 | 19°15 | 27°6 | 17°17 | 6°12 | 0°41 | 27°8 | 18°34 | 15°15 | 29°34 | 1°28 |
| S 13 | 19 21 45 | 20°15'59 | 20°10 | 3♁17 | 18°52 | 6°46 | 0°46 | 27°10 | 18°35 | 15°15 | 29°34 | 1°28 |
| M14 | 19 25 42 | 21°13'13 | 21°6 | 9°32 | 20°27 | 7°21 | 0°51 | 27°12 | 18°36 | 15°15 | 29°34 | 1°29 |
| T 15 | 19 29 38 | 22°10'27 | 22°3 | 15°50 | 22°2 | 7°56 | 0°56 | 27°14 | 18°37 | 15°16 | 29°34 | 1°30 |
| W16 | 19 33 35 | 23°7'40 | 22°59 | 22°9 | 23°37 | 8°31 | 1°1 | 27°16 | 18°37 | 15°16 | 29°35 | 1°30 |
| T 17 | 19 37 31 | 24°4'54 | 23°57 | 28°28 | 25°12 | 9°6 | 1°6 | 27°18 | 18°38 | 15°16 | 29°35 | 1°31 |
| F 18 | 19 41 28 | 25°2'08 | 24°54 | 4♃46 | 26°47 | 9°41 | 1°12 | 27°20 | 18°39 | 15°17 | 29°35 | 1°31 |
| S 19 | 19 45 25 | 25°59'21 | 25°52 | 11°0 | 28°21 | 10°16 | 1°17 | 27°22 | 18°40 | 15°17 | 29°35 | 1°32 |
| S 20 | 19 49 21 | 26°56'35 | 26°50 | 17°10 | 29°56 | 10°51 | 1°22 | 27°24 | 18°40 | 15°17 | 29°35 | 1°33 |
| M21 | 19 53 18 | 27°53'49 | 27°49 | 23°14 | 1♁31 | 11°26 | 1°27 | 27°26 | 18°41 | 15°18 | 29°35 | 1°33 |
| T 22 | 19 57 14 | 28°51'04 | 28°48 | 29°11 | 3°6 | 12°1 | 1°32 | 27°29 | 18°42 | 15°18 | 29°36 | 1°34 |
| W23 | 20 1 11 | 29°48'18 | 29°47 | 5♁0 | 4°41 | 12°37 | 1°37 | 27°31 | 18°43 | 15°18 | 29°36 | 1°35 |
| T 24 | 20 5 7 | 0♁45'33 | 0♁46 | 10°40 | 6°16 | 13°12 | 1°42 | 27°33 | 18°43 | 15°19 | 29°36 | 1°35 |
| F 25 | 20 9 4 | 1°42'49 | 1°45 | 16°12 | 7°51 | 13°47 | 1°48 | 27°35 | 18°44 | 15°19 | 29°36 | 1°36 |
| S 26 | 20 13 0 | 2°40'05 | 2°44 | 21°34 | 9°26 | 14°23 | 1°53 | 27°37 | 18°45 | 15°20 | 29°36 | 1°36 |
| S 27 | 20 16 57 | 3°37'22 | 3°43 | 26°46 | 11°0 | 14°58 | 1°58 | 27°39 | 18°46 | 15°20 | 29°36 | 1°37 |
| M28 | 20 20 54 | 4°34'40 | 4°42 | 1♁49 | 12°35 | 15°34 | 2°3 | 27°41 | 18°46 | 15°20 | 29°36 | 1°38 |
| T 29 | 20 24 50 | 5°31'58 | 5°40 | 6°42 | 14°10 | 16°9 | 2°8 | 27°43 | 18°47 | 15°21 | 29°37 | 1°38 |
| W30 | 20 28 47 | 6°29'18 | 6°38 | 11°26 | 15°45 | 16°45 | 2°13 | 27°45 | 18°48 | 15°21 | 29°37 | 1°39 |
| T 31 | 20 32 43 | 7♁26'38 | 7♁36 | 16♁0 | 17♁20 | 17♁21 | 2♁18 | 27♁47 | 18♁49 | 15♁21 | 29♁37 | 1♁40 |

Delta T = 273.11 sec.

AUGUST 2127

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|
| F 1 | 20 36 40 | 8♁24'00 | 8♁33 | 20♁26 | 18♁55 | 17♁57 | 2♁23 | 27♁49 | 18♁50 | 15♁22 | 29♁37 | 1♁40 |
| S 2 | 20 40 36 | 9°21'22 | 9°30 | 24°43 | 20°30 | 18°32 | 2°29 | 27°51 | 18°50 | 15°22 | 29°37 | 1°41 |
| S 3 | 20 44 33 | 10°18'46 | 10°27 | 28°52 | 22°5 | 19°8 | 2°34 | 27°53 | 18°51 | 15°22 | 29°37 | 1°42 |
| M 4 | 20 48 29 | 11°16'10 | 11°23 | 2♁54 | 23°40 | 19°44 | 2°39 | 27°55 | 18°52 | 15°23 | 29°38 | 1°42 |
| T 5 | 20 52 26 | 12°13'36 | 12°19 | 6°49 | 25°15 | 20°20 | 2°44 | 27°57 | 18°53 | 15°23 | 29°38 | 1°43 |
| W 6 | 20 56 23 | 13°11'03 | 13°15 | 10°36 | 26°50 | 20°56 | 2°49 | 27°59 | 18°53 | 15°23 | 29°38 | 1°43 |
| T 7 | 21 0 19 | 14°8'31 | 14°11 | 14°18 | 28°25 | 21°32 | 2°54 | 28°1 | 18°54 | 15°24 | 29°38 | 1°44 |
| F 8 | 21 4 16 | 15°6'00 | 15°6 | 17°53 | 0♁8 | 22°8 | 2°59 | 28°3 | 18°55 | 15°24 | 29°38 | 1°45 |
| S 9 | 21 8 12 | 16°3'29 | 16°2 | 21°23 | 1°35 | 22°44 | 3°5 | 28°5 | 18°56 | 15°24 | 29°38 | 1°45 |
| S 10 | 21 12 9 | 17°1'00 | 16°58 | 24°48 | 3°10 | 23°21 | 3°10 | 28°7 | 18°56 | 15°25 | 29°38 | 1°46 |
| M11 | 21 16 5 | 17°58'32 | 17°54 | 28°9 | 4°45 | 23°57 | 3°15 | 28°9 | 18°57 | 15°25 | 29°39 | 1°47 |
| T 12 | 21 20 2 | 18°56'04 | 18°50 | 1♁25 | 6°20 | 24°33 | 3°20 | 28°11 | 18°58 | 15°26 | 29°39 | 1°47 |
| W13 | 21 23 58 | 19°53'37 | 19°46 | 4°37 | 7°55 | 25°10 | 3°25 | 28°13 | 18°59 | 15°26 | 29°39 | 1°48 |
| T 14 | 21 27 55 | 20°51'11 | 20°43 | 7°45 | 9°31 | 25°46 | 3°30 | 28°16 | 18°59 | 15°26 | 29°39 | 1°48 |
| F 15 | 21 31 52 | 21°48'46 | 21°40 | 10°50 | 11°6 | 26°22 | 3°35 | 28°18 | 19°0 | 15°27 | 29°39 | 1°49 |
| S 16 | 21 35 48 | 22°46'22 | 22°38 | 13°52 | 12°41 | 26°59 | 3°41 | 28°20 | 19°1 | 15°27 | 29°39 | 1°50 |
| S 17 | 21 39 45 | 23°43'59 | 23°36 | 16°51 | 14°16 | 27°35 | 3°46 | 28°22 | 19°2 | 15°27 | 29°40 | 1°50 |
| M18 | 21 43 41 | 24°41'37 | 24°35 | 19°47 | 15°51 | 28°12 | 3°51 | 28°24 | 19°3 | 15°28 | 29°40 | 1°51 |
| T 19 | 21 47 38 | 25°39'16 | 25°34 | 22°41 | 17°26 | 28°49 | 3°56 | 28°26 | 19°3 | 15°28 | 29°40 | 1°52 |
| W20 | 21 51 34 | 26°36'56 | 26°33 | 25°34 | 19°2 | 29°25 | 4°1 | 28°28 | 19°4 | 15°28 | 29°40 | 1°52 |
| T 21 | 21 55 31 | 27°34'37 | 27°33 | 28°24 | 20°37 | 0♁2 | 4°6 | 28°30 | 19°5 | 15°29 | 29°40 | 1°53 |
| F 22 | 21 59 27 | 28°32'19 | 28°32 | 1♁13 | 22°12 | 0°39 | 4°12 | 28°32 | 19°6 | 15°29 | 29°40 | 1°54 |
| S 23 | 22 3 24 | 29°30'03 | 29°32 | 4°1 | 23°48 | 1°15 | 4°17 | 28°34 | 19°6 | 15°29 | 29°40 | 1°54 |
| S 24 | 22 7 21 | 0♁27'47 | 0♁31 | 6°48 | 25°23 | 1°52 | 4°22 | 28°36 | 19°7 | 15°30 | 29°41 | 1°55 |
| M25 | 22 11 17 | 1°25'34 | 1°31 | 9°34 | 26°58 | 2°29 | 4°27 | 28°38 | 19°8 | 15°30 | 29°41 | 1°55 |
| T 26 | 22 15 14 | 2°23'22 | 2°30 | 12°19 | 28°34 | 3°6 | 4°32 | 28°40 | 19°9 | 15°31 | 29°41 | 1°56 |
| W27 | 22 19 10 | 3°21'12 | 3°29 | 15°4 | 0♁9 | 3°43 | 4°37 | 28°42 | 19°9 | 15°31 | 29°41 | 1°57 |
| T 28 | 22 23 7 | 4°19'03 | 4°28 | 17°49 | 1°44 | 4°20 | 4°42 | 28°44 | 19°10 | 15°31 | 29°41 | 1°57 |
| F 29 | 22 27 3 | 5°16'56 | 5°26 | 20°34 | 3°20 | 4°57 | 4°48 | 28°46 | 19°11 | 15°32 | 29°41 | 1°58 |
| S 30 | 22 31 0 | 6°14'51 | 6°24 | 23°18 | 4°55 | 5°34 | 4°53 | 28°48 | 19°12 | 15°32 | 29°42 | 1°59 |
| S 31 | 22 34 56 | 7♁12'48 | 7♁22 | 26♁4 | 6♁31 | 6♁11 | 4♁58 | 28♁50 | 19♁12 | 15♁32 | 29♁42 | 1♁59 |

Delta T = 273.28 sec.

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SWISS EPHEMERIS for the year 2127
heliocentric

SEPTEMBER 2127

00:00 UT

| Day | Sid.t | Terra | ☾ | ♁ | ♂ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ |
|------|----------|----------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|---|---|---|---|---|
| M 1 | 22 38 53 | 8♄10'46 | 8♄19 | 28♄50 | 8♄ 6 | 6♄48 | 5♄ 3 | 28♄52 | 19♄13 | 15♄33 | 29♄42 | 2♄ 0 | | | | | |
| T 2 | 22 42 50 | 9° 8'47 | 9°16 | 1♄36 | 9°42 | 7°25 | 5° 8 | 28°54 | 19°14 | 15°33 | 29°42 | 2° 0 | | | | | |
| W 3 | 22 46 46 | 10° 6'49 | 10°13 | 4°24 | 11°17 | 8° 3 | 5°13 | 28°56 | 19°15 | 15°33 | 29°42 | 2° 1 | | | | | |
| T 4 | 22 50 43 | 11° 4'53 | 11°10 | 7°13 | 12°53 | 8°40 | 5°19 | 28°58 | 19°16 | 15°34 | 29°42 | 2° 2 | | | | | |
| F 5 | 22 54 39 | 12° 2'59 | 12° 6 | 10° 3 | 14°29 | 9°17 | 5°24 | 29° 0 | 19°16 | 15°34 | 29°42 | 2° 2 | | | | | |
| S 6 | 22 58 36 | 13° 1'06 | 13° 2 | 12°55 | 16° 4 | 9°55 | 5°29 | 29° 2 | 19°17 | 15°34 | 29°43 | 2° 3 | | | | | |
| S 7 | 23 2 32 | 13°59'16 | 13°59 | 15°49 | 17°40 | 10°32 | 5°34 | 29° 4 | 19°18 | 15°35 | 29°43 | 2° 4 | | | | | |
| M 8 | 23 6 29 | 14°57'27 | 14°55 | 18°45 | 19°15 | 11° 9 | 5°39 | 29° 6 | 19°19 | 15°35 | 29°43 | 2° 4 | | | | | |
| T 9 | 23 10 25 | 15°55'39 | 15°51 | 21°44 | 20°51 | 11°47 | 5°44 | 29° 9 | 19°19 | 15°35 | 29°43 | 2° 5 | | | | | |
| W10 | 23 14 22 | 16°53'53 | 16°48 | 24°45 | 22°27 | 12°24 | 5°50 | 29°11 | 19°20 | 15°36 | 29°43 | 2° 6 | | | | | |
| T 11 | 23 18 18 | 17°52'09 | 17°45 | 27°49 | 24° 3 | 13° 2 | 5°55 | 29°13 | 19°21 | 15°36 | 29°43 | 2° 6 | | | | | |
| F 12 | 23 22 15 | 18°50'26 | 18°42 | 0♄56 | 25°38 | 13°39 | 6° 0 | 29°15 | 19°22 | 15°37 | 29°44 | 2° 7 | | | | | |
| S 13 | 23 26 12 | 19°48'45 | 19°40 | 4° 6 | 27°14 | 14°17 | 6° 5 | 29°17 | 19°22 | 15°37 | 29°44 | 2° 7 | | | | | |
| S 14 | 23 30 8 | 20°47'05 | 20°39 | 7°21 | 28°50 | 14°54 | 6°10 | 29°19 | 19°23 | 15°37 | 29°44 | 2° 8 | | | | | |
| M15 | 23 34 5 | 21°45'27 | 21°37 | 10°39 | 0♄26 | 15°32 | 6°15 | 29°21 | 19°24 | 15°38 | 29°44 | 2° 9 | | | | | |
| T 16 | 23 38 1 | 22°43'50 | 22°37 | 14° 1 | 2° 2 | 16° 9 | 6°21 | 29°23 | 19°25 | 15°38 | 29°44 | 2° 9 | | | | | |
| W17 | 23 41 58 | 23°42'15 | 23°36 | 17°29 | 3°38 | 16°47 | 6°26 | 29°25 | 19°25 | 15°38 | 29°44 | 2°10 | | | | | |
| T 18 | 23 45 54 | 24°40'41 | 24°36 | 21° 1 | 5°14 | 17°25 | 6°31 | 29°27 | 19°26 | 15°39 | 29°44 | 2°11 | | | | | |
| F 19 | 23 49 51 | 25°39'09 | 25°36 | 24°38 | 6°49 | 18° 2 | 6°36 | 29°29 | 19°27 | 15°39 | 29°45 | 2°11 | | | | | |
| S 20 | 23 53 47 | 26°37'39 | 26°37 | 28°21 | 8°25 | 18°40 | 6°41 | 29°31 | 19°28 | 15°39 | 29°45 | 2°12 | | | | | |
| S 21 | 23 57 44 | 27°36'11 | 27°37 | 2♄11 | 10° 1 | 19°18 | 6°47 | 29°33 | 19°28 | 15°40 | 29°45 | 2°12 | | | | | |
| M22 | 0 1 41 | 28°34'45 | 28°37 | 6° 6 | 11°37 | 19°56 | 6°52 | 29°35 | 19°29 | 15°40 | 29°45 | 2°13 | | | | | |
| T 23 | 0 5 37 | 29°33'21 | 29°37 | 10° 9 | 13°14 | 20°34 | 6°57 | 29°37 | 19°30 | 15°40 | 29°45 | 2°14 | | | | | |
| W24 | 0 9 34 | 0♄31'58 | 0♄38 | 14°19 | 14°50 | 21°11 | 7° 2 | 29°39 | 19°31 | 15°41 | 29°45 | 2°14 | | | | | |
| T 25 | 0 13 30 | 1°30'38 | 1°38 | 18°36 | 16°26 | 21°49 | 7° 7 | 29°41 | 19°32 | 15°41 | 29°46 | 2°15 | | | | | |
| F 26 | 0 17 27 | 2°29'20 | 2°37 | 23° 1 | 18° 2 | 22°27 | 7°12 | 29°43 | 19°32 | 15°42 | 29°46 | 2°16 | | | | | |
| S 27 | 0 21 23 | 3°28'05 | 3°37 | 27°34 | 19°38 | 23° 5 | 7°18 | 29°45 | 19°33 | 15°42 | 29°46 | 2°16 | | | | | |
| S 28 | 0 25 20 | 4°26'51 | 4°36 | 2♄16 | 21°14 | 23°43 | 7°23 | 29°47 | 19°34 | 15°42 | 29°46 | 2°17 | | | | | |
| M29 | 0 29 16 | 5°25'40 | 5°35 | 7° 7 | 22°50 | 24°21 | 7°28 | 29°49 | 19°35 | 15°43 | 29°46 | 2°18 | | | | | |
| T 30 | 0 33 13 | 6°♄24'31 | 6°♄33 | 12♄ 6 | 24♄27 | 24♄59 | 7♄33 | 29♄51 | 19♄35 | 15♄43 | 29♄46 | 2♄18 | | | | | |

Delta T = 273.44 sec.

OCTOBER 2127

00:00 UT

| Day | Sid.t | Terra | ☾ | ♁ | ♂ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---|---|---|---|---|
| W 1 | 0 37 10 | 7♄23'24 | 7♄31 | 17♄15 | 26♄ 3 | 25♄37 | 7♄38 | 29♄53 | 19♄36 | 15♄43 | 29♄46 | 2♄19 | | | | | |
| T 2 | 0 41 6 | 8°22'20 | 8°29 | 22°33 | 27°39 | 26°15 | 7°43 | 29°55 | 19°37 | 15°44 | 29°47 | 2°19 | | | | | |
| F 3 | 0 45 3 | 9°21'18 | 9°27 | 28° 0 | 29°16 | 26°53 | 7°49 | 29°57 | 19°38 | 15°44 | 29°47 | 2°20 | | | | | |
| S 4 | 0 48 59 | 10°20'18 | 10°24 | 3♄36 | 0♄52 | 27°31 | 7°54 | 29°59 | 19°38 | 15°44 | 29°47 | 2°21 | | | | | |
| S 5 | 0 52 56 | 11°19'20 | 11°21 | 9°20 | 2°28 | 28° 9 | 7°59 | 0♄ 1 | 19°39 | 15°45 | 29°47 | 2°21 | | | | | |
| M 6 | 0 56 52 | 12°18'24 | 12°19 | 15°12 | 4° 5 | 28°47 | 8° 4 | 0° 3 | 19°40 | 15°45 | 29°47 | 2°22 | | | | | |
| T 7 | 1 0 49 | 13°17'30 | 13°16 | 21°12 | 5°41 | 29°25 | 8° 9 | 0° 6 | 19°41 | 15°45 | 29°47 | 2°23 | | | | | |
| W 8 | 1 4 45 | 14°16'38 | 14°13 | 27°18 | 7°18 | 0♄ 3 | 8°15 | 0° 8 | 19°41 | 15°46 | 29°48 | 2°23 | | | | | |
| T 9 | 1 8 42 | 15°15'49 | 15°10 | 3♄29 | 8°54 | 0°41 | 8°20 | 0°10 | 19°42 | 15°46 | 29°48 | 2°24 | | | | | |
| F 10 | 1 12 38 | 16°15'01 | 16° 8 | 9°44 | 10°31 | 1°19 | 8°25 | 0°12 | 19°43 | 15°46 | 29°48 | 2°25 | | | | | |
| S 11 | 1 16 35 | 17°14'15 | 17° 6 | 16° 2 | 12° 7 | 1°57 | 8°30 | 0°14 | 19°44 | 15°47 | 29°48 | 2°25 | | | | | |
| S 12 | 1 20 32 | 18°13'30 | 18° 5 | 22°21 | 13°44 | 2°35 | 8°35 | 0°16 | 19°45 | 15°47 | 29°48 | 2°26 | | | | | |
| M13 | 1 24 28 | 19°12'47 | 19° 4 | 28°40 | 15°21 | 3°13 | 8°41 | 0°18 | 19°45 | 15°48 | 29°48 | 2°26 | | | | | |
| T 14 | 1 28 25 | 20°12'06 | 20° 4 | 4♄58 | 16°57 | 3°51 | 8°46 | 0°20 | 19°46 | 15°48 | 29°48 | 2°27 | | | | | |
| W15 | 1 32 21 | 21°11'27 | 21° 4 | 11°12 | 18°34 | 4°29 | 8°51 | 0°22 | 19°47 | 15°48 | 29°49 | 2°28 | | | | | |
| T 16 | 1 36 18 | 22°10'50 | 22° 4 | 17°22 | 20°11 | 5° 7 | 8°56 | 0°24 | 19°48 | 15°49 | 29°49 | 2°28 | | | | | |
| F 17 | 1 40 14 | 23°10'14 | 23° 5 | 23°25 | 21°47 | 5°45 | 9° 1 | 0°26 | 19°48 | 15°49 | 29°49 | 2°29 | | | | | |
| S 18 | 1 44 11 | 24° 9'40 | 24° 6 | 29°22 | 23°24 | 6°24 | 9° 6 | 0°28 | 19°49 | 15°49 | 29°49 | 2°30 | | | | | |
| S 19 | 1 48 7 | 25° 9'08 | 25° 7 | 5♄11 | 25° 1 | 7° 2 | 9°12 | 0°30 | 19°50 | 15°50 | 29°49 | 2°30 | | | | | |
| M20 | 1 52 4 | 26° 8'38 | 26° 8 | 10°51 | 26°38 | 7°40 | 9°17 | 0°32 | 19°51 | 15°50 | 29°49 | 2°31 | | | | | |
| T 21 | 1 56 1 | 27° 8'10 | 27° 9 | 16°22 | 28°15 | 8°18 | 9°22 | 0°34 | 19°51 | 15°50 | 29°50 | 2°31 | | | | | |
| W22 | 1 59 57 | 28° 7'44 | 28°11 | 21°44 | 29°52 | 8°56 | 9°27 | 0°36 | 19°52 | 15°51 | 29°50 | 2°32 | | | | | |
| T 23 | 2 3 54 | 29° 7'20 | 29°12 | 26°56 | 1♄29 | 9°34 | 9°32 | 0°38 | 19°53 | 15°51 | 29°50 | 2°33 | | | | | |
| F 24 | 2 7 50 | 0♄ 6'59 | 0♄13 | 1♄58 | 3° 6 | 10°12 | 9°38 | 0°40 | 19°54 | 15°51 | 29°50 | 2°33 | | | | | |
| S 25 | 2 11 47 | 1° 6'39 | 1°14 | 6°51 | 4°43 | 10°50 | 9°43 | 0°42 | 19°54 | 15°52 | 29°50 | 2°34 | | | | | |
| S 26 | 2 15 43 | 2° 6'22 | 2°15 | 11°34 | 6°20 | 11°28 | 9°48 | 0°44 | 19°55 | 15°52 | 29°50 | 2°35 | | | | | |
| M27 | 2 19 40 | 3° 6'07 | 3°15 | 16° 9 | 7°57 | 12° 7 | 9°53 | 0°46 | 19°56 | 15°53 | 29°50 | 2°35 | | | | | |
| T 28 | 2 23 36 | 4° 5'54 | 4°15 | 20°34 | 9°34 | 12°45 | 9°58 | 0°48 | 19°57 | 15°53 | 29°51 | 2°36 | | | | | |
| W29 | 2 27 33 | 5° 5'44 | 5°15 | 24°51 | 11°11 | 13°23 | 10° 4 | 0°50 | 19°58 | 15°53 | 29°51 | 2°37 | | | | | |
| T 30 | 2 31 30 | 6° 5'35 | 6°14 | 29° 0 | 12°48 | 14° 1 | 10° 9 | 0°52 | 19°58 | 15°54 | 29°51 | 2°37 | | | | | |
| F 31 | 2 35 26 | 7♄ 5'29 | 7♄13 | 3♄ 2 | 14♄25 | 14♄39 | 10♄14 | 0♄54 | 19♄59 | 15♄54 | 29♄51 | 2♄38 | | | | | |

Delta T = 273.59 sec.

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SWISS EPHEMERIS for the year 2127
heliocentric

NOVEMBER 2127

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|---------|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|
| S 1 | 2 39 23 | 8♃ 5'25 | 8♃12 | 6♁56 | 16♄2 | 15♃17 | 10♁19 | 0♁56 | 20♂0 | 15♁54 | 29♃51 | 2♃38 |
| S 2 | 2 43 19 | 9° 5'23 | 9°10 | 10°43 | 17°39 | 15°55 | 10°24 | 0°58 | 20° 1 | 15°55 | 29°51 | 2°39 |
| M 3 | 2 47 16 | 10° 5'23 | 10° 8 | 14°25 | 19°17 | 16°33 | 10°30 | 1° 0 | 20° 1 | 15°55 | 29°52 | 2°40 |
| T 4 | 2 51 12 | 11° 5'25 | 11° 6 | 18° 0 | 20°54 | 17°11 | 10°35 | 1° 2 | 20° 2 | 15°55 | 29°52 | 2°40 |
| W 5 | 2 55 9 | 12° 5'30 | 12° 4 | 21°30 | 22°31 | 17°49 | 10°40 | 1° 4 | 20° 3 | 15°56 | 29°52 | 2°41 |
| T 6 | 2 59 5 | 13° 5'36 | 13° 3 | 24°55 | 24° 8 | 18°27 | 10°45 | 1° 6 | 20° 4 | 15°56 | 29°52 | 2°42 |
| F 7 | 3 3 2 | 14° 5'43 | 14° 1 | 28°15 | 25°46 | 19° 5 | 10°51 | 1° 8 | 20° 4 | 15°56 | 29°52 | 2°42 |
| S 8 | 3 6 59 | 15° 5'53 | 14°59 | 1♁31 | 27°23 | 19°43 | 10°56 | 1°11 | 20° 5 | 15°57 | 29°52 | 2°43 |
| S 9 | 3 10 55 | 16° 6'04 | 15°58 | 4°43 | 29° 1 | 20°21 | 11° 1 | 1°13 | 20° 6 | 15°57 | 29°52 | 2°44 |
| M10 | 3 14 52 | 17° 6'16 | 16°58 | 7°51 | 0♁38 | 20°59 | 11° 6 | 1°15 | 20° 7 | 15°57 | 29°53 | 2°44 |
| T 11 | 3 18 48 | 18° 6'30 | 17°58 | 10°56 | 2°15 | 21°37 | 11°11 | 1°17 | 20° 7 | 15°58 | 29°53 | 2°45 |
| W12 | 3 22 45 | 19° 6'46 | 18°58 | 13°57 | 3°53 | 22°15 | 11°17 | 1°19 | 20° 8 | 15°58 | 29°53 | 2°45 |
| T 13 | 3 26 41 | 20° 7'02 | 19°59 | 16°56 | 5°30 | 22°53 | 11°22 | 1°21 | 20° 9 | 15°59 | 29°53 | 2°46 |
| F 14 | 3 30 38 | 21° 7'21 | 21° 0 | 19°53 | 7° 8 | 23°31 | 11°27 | 1°23 | 20°10 | 15°59 | 29°53 | 2°47 |
| S 15 | 3 34 34 | 22° 7'40 | 22° 1 | 22°47 | 8°45 | 24° 9 | 11°32 | 1°25 | 20°11 | 15°59 | 29°53 | 2°47 |
| S 16 | 3 38 31 | 23° 8'01 | 23° 3 | 25°39 | 10°23 | 24°47 | 11°37 | 1°27 | 20°11 | 16° 0 | 29°54 | 2°48 |
| M17 | 3 42 28 | 24° 8'24 | 24° 5 | 28°30 | 12° 0 | 25°24 | 11°43 | 1°29 | 20°12 | 16° 0 | 29°54 | 2°49 |
| T 18 | 3 46 24 | 25° 8'48 | 25° 7 | 1♁19 | 13°37 | 26° 2 | 11°48 | 1°31 | 20°13 | 16° 0 | 29°54 | 2°49 |
| W19 | 3 50 21 | 26° 9'14 | 26° 9 | 4° 7 | 15°15 | 26°40 | 11°53 | 1°33 | 20°14 | 16° 1 | 29°54 | 2°50 |
| T 20 | 3 54 17 | 27° 9'42 | 27°11 | 6°53 | 16°52 | 27°18 | 11°58 | 1°35 | 20°14 | 16° 1 | 29°54 | 2°51 |
| F 21 | 3 58 14 | 28°10'11 | 28°14 | 9°39 | 18°30 | 27°55 | 12° 4 | 1°37 | 20°15 | 16° 1 | 29°54 | 2°51 |
| S 22 | 4 2 10 | 29°10'41 | 29°16 | 12°25 | 20° 8 | 28°33 | 12° 9 | 1°39 | 20°16 | 16° 2 | 29°54 | 2°52 |
| S 23 | 4 6 7 | 0♁11'14 | 0♁18 | 15° 9 | 21°45 | 29°11 | 12°14 | 1°41 | 20°17 | 16° 2 | 29°55 | 2°52 |
| M24 | 4 10 3 | 1°11'48 | 1°19 | 17°54 | 23°23 | 29°49 | 12°19 | 1°43 | 20°17 | 16° 2 | 29°55 | 2°53 |
| T 25 | 4 14 0 | 2°12'24 | 2°21 | 20°39 | 25° 0 | 0♁26 | 12°24 | 1°45 | 20°18 | 16° 3 | 29°55 | 2°54 |
| W26 | 4 17 57 | 3°13'01 | 3°22 | 23°24 | 26°38 | 1° 4 | 12°30 | 1°47 | 20°19 | 16° 3 | 29°55 | 2°54 |
| T 27 | 4 21 53 | 4°13'40 | 4°23 | 26° 9 | 28°15 | 1°41 | 12°35 | 1°49 | 20°20 | 16° 4 | 29°55 | 2°55 |
| F 28 | 4 25 50 | 5°14'21 | 5°23 | 28°55 | 29°53 | 2°19 | 12°40 | 1°51 | 20°20 | 16° 4 | 29°55 | 2°56 |
| S 29 | 4 29 46 | 6°15'03 | 6°23 | 1♁42 | 1♁30 | 2°56 | 12°45 | 1°53 | 20°21 | 16° 4 | 29°56 | 2°56 |
| S 30 | 4 33 43 | 7°15'47 | 7°23 | 4♁29 | 3♁8 | 3°34 | 12°51 | 1°55 | 20°22 | 16° 5 | 29°56 | 2°57 |

Delta T = 273.76 sec.

DECEMBER 2127

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|---------|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|
| M 1 | 4 37 39 | 8♁16'33 | 8♁22 | 7♁18 | 4♁45 | 4♁11 | 12°56 | 1°57 | 20°23 | 16° 5 | 29°56 | 2°58 |
| T 2 | 4 41 36 | 9°17'20 | 9°21 | 10° 9 | 6°23 | 4°49 | 13° 1 | 1°59 | 20°24 | 16° 5 | 29°56 | 2°58 |
| W 3 | 4 45 32 | 10°18'08 | 10°20 | 13° 1 | 8° 0 | 5°26 | 13° 6 | 2° 1 | 20°24 | 16° 6 | 29°56 | 2°59 |
| T 4 | 4 49 29 | 11°18'58 | 11°19 | 15°55 | 9°38 | 6° 4 | 13°11 | 2° 3 | 20°25 | 16° 6 | 29°56 | 2°59 |
| F 5 | 4 53 26 | 12°19'49 | 12°18 | 18°51 | 11°15 | 6°41 | 13°17 | 2° 5 | 20°26 | 16° 6 | 29°56 | 3° 0 |
| S 6 | 4 57 22 | 13°20'42 | 13°16 | 21°50 | 12°53 | 7°18 | 13°22 | 2° 7 | 20°27 | 16° 7 | 29°57 | 3° 1 |
| S 7 | 5 1 19 | 14°21'35 | 14°16 | 24°51 | 14°30 | 7°56 | 13°27 | 2° 9 | 20°27 | 16° 7 | 29°57 | 3° 1 |
| M 8 | 5 5 15 | 15°22'29 | 15°15 | 27°55 | 16° 7 | 8°33 | 13°32 | 2°11 | 20°28 | 16° 7 | 29°57 | 3° 2 |
| T 9 | 5 9 12 | 16°23'23 | 16°15 | 1♁2 | 17°45 | 9°10 | 13°38 | 2°13 | 20°29 | 16° 8 | 29°57 | 3° 3 |
| W10 | 5 13 8 | 17°24'19 | 17°15 | 4°13 | 19°22 | 9°47 | 13°43 | 2°15 | 20°30 | 16° 8 | 29°57 | 3° 3 |
| T 11 | 5 17 5 | 18°25'15 | 18°16 | 7°27 | 21° 0 | 10°24 | 13°48 | 2°17 | 20°30 | 16° 8 | 29°57 | 3° 4 |
| F 12 | 5 21 1 | 19°26'11 | 19°17 | 10°45 | 22°37 | 11° 1 | 13°53 | 2°19 | 20°31 | 16° 9 | 29°58 | 3° 5 |
| S 13 | 5 24 58 | 20°27'09 | 20°19 | 14° 8 | 24°14 | 11°38 | 13°59 | 2°22 | 20°32 | 16° 9 | 29°58 | 3° 5 |
| S 14 | 5 28 55 | 21°28'07 | 21°21 | 17°35 | 25°51 | 12°15 | 14° 4 | 2°24 | 20°33 | 16°10 | 29°58 | 3° 6 |
| M15 | 5 32 51 | 22°29'05 | 22°23 | 21° 8 | 27°29 | 12°52 | 14° 9 | 2°26 | 20°33 | 16°10 | 29°58 | 3° 7 |
| T 16 | 5 36 48 | 23°30'05 | 23°25 | 24°45 | 29° 6 | 13°29 | 14°14 | 2°28 | 20°34 | 16°10 | 29°58 | 3° 7 |
| W17 | 5 40 44 | 24°31'05 | 24°28 | 28°29 | 0♁43 | 14° 6 | 14°19 | 2°30 | 20°35 | 16°11 | 29°58 | 3° 8 |
| T 18 | 5 44 41 | 25°32'05 | 25°31 | 2♁18 | 2°20 | 14°43 | 14°25 | 2°32 | 20°36 | 16°11 | 29°58 | 3° 8 |
| F 19 | 5 48 37 | 26°33'07 | 26°33 | 6°14 | 3°57 | 15°20 | 14°30 | 2°34 | 20°37 | 16°11 | 29°59 | 3° 9 |
| S 20 | 5 52 34 | 27°34'09 | 27°36 | 10°17 | 5°34 | 15°57 | 14°35 | 2°36 | 20°37 | 16°12 | 29°59 | 3°10 |
| S 21 | 5 56 30 | 28°35'12 | 28°39 | 14°27 | 7°12 | 16°33 | 14°40 | 2°38 | 20°38 | 16°12 | 29°59 | 3°10 |
| M22 | 6 0 27 | 29°36'15 | 29°42 | 18°44 | 8°49 | 17°10 | 14°46 | 2°40 | 20°39 | 16°12 | 29°59 | 3°11 |
| T 23 | 6 4 24 | 0♁37'20 | 0♁44 | 23° 9 | 10°26 | 17°47 | 14°51 | 2°42 | 20°40 | 16°13 | 29°59 | 3°12 |
| W24 | 6 8 20 | 1°38'25 | 1°46 | 27°43 | 12° 2 | 18°23 | 14°56 | 2°44 | 20°40 | 16°13 | 29°59 | 3°12 |
| T 25 | 6 12 17 | 2°39'30 | 2°48 | 2♁25 | 13°39 | 19° 0 | 15° 1 | 2°46 | 20°41 | 16°13 | 29°59 | 3°13 |
| F 26 | 6 16 13 | 3°40'37 | 3°49 | 7°16 | 15°16 | 19°36 | 15° 7 | 2°48 | 20°42 | 16°14 | 29°59 | 3°14 |
| S 27 | 6 20 10 | 4°41'44 | 4°51 | 12°16 | 16°53 | 20°13 | 15°12 | 2°50 | 20°43 | 16°14 | 29°59 | 3°14 |
| S 28 | 6 24 6 | 5°42'51 | 5°51 | 17°25 | 18°30 | 20°49 | 15°17 | 2°52 | 20°43 | 16°15 | 0♁0 | 3°15 |
| M29 | 6 28 3 | 6°44'00 | 6°51 | 22°43 | 20° 7 | 21°26 | 15°22 | 2°54 | 20°44 | 16°15 | 0° 0 | 3°15 |
| T 30 | 6 31 59 | 7°45'09 | 7°51 | 28°11 | 21°43 | 22° 2 | 15°28 | 2°56 | 20°45 | 16°15 | 0° 0 | 3°16 |
| W31 | 6 35 56 | 8°46'19 | 8°51 | 3♁47 | 23°20 | 22°38 | 15°33 | 2°58 | 20°46 | 16°16 | 0♁0 | 3♁17 |

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