

SWISS EPHEMERIS for the year 1651

JANUARY 1651 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|------|--------|-------|-------|--------|-------|------|-------|--------|
| S 1 | 6 41 57 | 10♌3647 | 6♉16 | 28♎47 | 24♋21 | 8♏ 4 | 0♈45 | 11°R 6 | 19♎22 | 17♎43 | 10°R34 | 6°R29 | 5♉ 3 | 12♉36 | 19♎28 |
| M 2 | 6 45 53 | 11°37'57 | 18°30 | 0♌19 | 25° 2 | 8°29 | 0°57 | 11♉ 1 | 19°25 | 17°45 | 10♈33 | 6♉29 | 5° 0 | 12°42 | 19°28 |
| T 3 | 6 49 50 | 12°39'06 | 0♈34 | 1°51 | 25°43 | 8°54 | 1° 9 | 10°56 | 19°29 | 17°47 | 10°32 | 6°26 | 4°57 | 12°49 | 19°R28 |
| W 4 | 6 53 46 | 13°40'15 | 12°31 | 3°24 | 26°22 | 9°19 | 1°20 | 10°51 | 19°32 | 17°49 | 10°31 | 6°20 | 4°54 | 12°56 | 19°28 |
| T 5 | 6 57 43 | 14°41'23 | 24°24 | 4°58 | 27° 0 | 9°43 | 1°32 | 10°46 | 19°36 | 17°52 | 10°30 | 6°11 | 4°51 | 13° 2 | 19°28 |
| F 6 | 7 1 40 | 15°42'31 | 6♉16 | 6°32 | 27°37 | 10° 7 | 1°43 | 10°41 | 19°39 | 17°54 | 10°29 | 6° 0 | 4°48 | 13° 9 | 19°28 |
| S 7 | 7 5 36 | 16°43'39 | 18° 8 | 8° 6 | 28°12 | 10°31 | 1°54 | 10°36 | 19°42 | 17°56 | 10°28 | 5°47 | 4°44 | 13°16 | 19°28 |
| S 8 | 7 9 33 | 17°44'47 | 0♏ 1 | 9°40 | 28°46 | 10°54 | 2° 5 | 10°31 | 19°46 | 17°58 | 10°27 | 5°33 | 4°41 | 13°23 | 19°27 |
| M 9 | 7 13 29 | 18°45'54 | 11°57 | 11°16 | 29°18 | 11°17 | 2°17 | 10°26 | 19°49 | 18° 0 | 10°26 | 5°19 | 4°38 | 13°29 | 19°26 |
| T 10 | 7 17 26 | 19°47'00 | 23°58 | 12°51 | 29°49 | 11°40 | 2°28 | 10°22 | 19°52 | 18° 2 | 10°25 | 5° 6 | 4°35 | 13°36 | 19°26 |
| W 11 | 7 21 22 | 20°48'06 | 6♎ 5 | 14°27 | 0♈18 | 12° 3 | 2°39 | 10°17 | 19°55 | 18° 4 | 10°24 | 4°56 | 4°32 | 13°43 | 19°25 |
| T 12 | 7 25 19 | 21°49'12 | 18°20 | 16° 4 | 0°46 | 12°25 | 2°50 | 10°12 | 19°59 | 18° 6 | 10°24 | 4°49 | 4°28 | 13°49 | 19°24 |
| F 13 | 7 29 15 | 22°50'18 | 0♏47 | 17°41 | 1°12 | 12°47 | 3° 0 | 10° 7 | 20° 2 | 18° 8 | 10°23 | 4°45 | 4°25 | 13°56 | 19°23 |
| S 14 | 7 33 12 | 23°51'23 | 13°29 | 19°19 | 1°36 | 13° 8 | 3°11 | 10° 2 | 20° 5 | 18°10 | 10°22 | 4°43 | 4°22 | 14° 3 | 19°21 |
| S 15 | 7 37 9 | 24°52'28 | 26°31 | 20°57 | 1°58 | 13°29 | 3°22 | 9°58 | 20° 8 | 18°11 | 10°21 | 4°42 | 4°19 | 14°10 | 19°20 |
| M 16 | 7 41 5 | 25°53'32 | 9♈56 | 22°36 | 2°18 | 13°50 | 3°32 | 9°53 | 20°11 | 18°13 | 10°20 | 4°42 | 4°16 | 14°16 | 19°19 |
| T 17 | 7 45 2 | 26°54'36 | 23°47 | 24°16 | 2°36 | 14°11 | 3°43 | 9°48 | 20°15 | 18°15 | 10°20 | 4°41 | 4°13 | 14°23 | 19°17 |
| W 18 | 7 48 58 | 27°55'40 | 8♎ 6 | 25°56 | 2°53 | 14°31 | 3°53 | 9°44 | 20°18 | 18°17 | 10°19 | 4°38 | 4° 9 | 14°30 | 19°15 |
| T 19 | 7 52 55 | 28°56'43 | 22°50 | 27°36 | 3° 7 | 14°51 | 4° 3 | 9°39 | 20°21 | 18°19 | 10°18 | 4°32 | 4° 6 | 14°36 | 19°13 |
| F 20 | 7 56 51 | 29°57'46 | 7♉55 | 29°18 | 3°19 | 15°10 | 4°13 | 9°35 | 20°24 | 18°21 | 10°18 | 4°24 | 4° 3 | 14°43 | 19°12 |
| S 21 | 8 0 48 | 0♋5848 | 23°12 | 0♋59 | 3°28 | 15°29 | 4°23 | 9°30 | 20°27 | 18°23 | 10°17 | 4°13 | 4° 0 | 14°50 | 19°10 |
| S 22 | 8 4 44 | 1°59'49 | 8♋30 | 2°42 | 3°36 | 15°48 | 4°33 | 9°26 | 20°30 | 18°24 | 10°16 | 4° 1 | 3°57 | 14°57 | 19° 7 |
| M 23 | 8 8 41 | 3° 0'49 | 23°37 | 4°25 | 3°41 | 16° 6 | 4°43 | 9°21 | 20°33 | 18°26 | 10°16 | 3°49 | 3°54 | 15° 3 | 19° 5 |
| T 24 | 8 12 38 | 4° 1'48 | 8♈24 | 6° 9 | 3°44 | 16°24 | 4°53 | 9°17 | 20°36 | 18°28 | 10°15 | 3°39 | 3°50 | 15°10 | 19° 3 |
| W 25 | 8 16 34 | 5° 2'46 | 22°43 | 7°53 | 3°R44 | 16°41 | 5° 3 | 9°13 | 20°38 | 18°30 | 10°14 | 3°32 | 3°47 | 15°17 | 19° 0 |
| T 26 | 8 20 31 | 6° 3'42 | 6♎32 | 9°38 | 3°42 | 16°58 | 5°12 | 9° 9 | 20°41 | 18°31 | 10°14 | 3°28 | 3°44 | 15°23 | 18°58 |
| F 27 | 8 24 27 | 7° 4'37 | 19°51 | 11°24 | 3°37 | 17°15 | 5°22 | 9° 5 | 20°44 | 18°33 | 10°13 | 3°26 | 3°41 | 15°30 | 18°55 |
| S 28 | 8 28 24 | 8° 5'31 | 2♉44 | 13°10 | 3°29 | 17°31 | 5°31 | 9° 1 | 20°47 | 18°35 | 10°13 | 3°26 | 3°38 | 15°37 | 18°52 |
| S 29 | 8 32 20 | 9° 6'23 | 15°14 | 14°56 | 3°20 | 17°46 | 5°40 | 8°57 | 20°50 | 18°36 | 10°12 | 3°26 | 3°34 | 15°44 | 18°50 |
| M 30 | 8 36 17 | 10° 7'14 | 27°26 | 16°43 | 3° 7 | 18° 1 | 5°49 | 8°53 | 20°52 | 18°38 | 10°11 | 3°25 | 3°31 | 15°50 | 18°47 |
| T 31 | 8 40 13 | 11° 8'04 | 9♈27 | 18°31 | 2♈52 | 18°16 | 5°58 | 8°49 | 20°55 | 18°39 | 10♈11 | 3°22 | 3°28 | 15°57 | 18♎44 |

Delta T = 45.32 sec. Greg. Calendar

FEBRUARY 1651 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|--------|-------|--------|------|-------|-------|-------|--------|-------|------|-------|--------|
| W 1 | 8 44 10 | 12♋ 8'52 | 21♈20 | 20♋18 | 2°R35 | 18♏30 | 6♎ 7 | 8°R45 | 20♎58 | 18♎41 | 10°R11 | 3°R16 | 3♉25 | 16♉ 4 | 18°R41 |
| T 2 | 8 48 7 | 13° 9'39 | 3♉11 | 22° 6 | 2♈15 | 18°44 | 6°16 | 8♉42 | 21° 0 | 18°42 | 10♈10 | 3♉ 7 | 3°22 | 16°10 | 18♎37 |
| F 3 | 8 52 3 | 14°10'24 | 15° 1 | 23°54 | 1°53 | 18°57 | 6°24 | 8°38 | 21° 3 | 18°44 | 10°10 | 2°56 | 3°19 | 16°17 | 18°34 |
| S 4 | 8 56 0 | 15°11'08 | 26°55 | 25°41 | 1°29 | 19°10 | 6°33 | 8°35 | 21° 5 | 18°45 | 10° 9 | 2°43 | 3°15 | 16°24 | 18°31 |
| S 5 | 8 59 56 | 16°11'50 | 8♏52 | 27°28 | 1° 2 | 19°22 | 6°41 | 8°31 | 21° 8 | 18°47 | 10° 9 | 2°28 | 3°12 | 16°31 | 18°27 |
| M 6 | 9 3 53 | 17°12'31 | 20°56 | 29°15 | 0°33 | 19°33 | 6°49 | 8°28 | 21°10 | 18°48 | 10° 8 | 2°14 | 3° 9 | 16°37 | 18°24 |
| T 7 | 9 7 49 | 18°13'11 | 3♎ 7 | 1♈ 1 | 0° 3 | 19°44 | 6°57 | 8°25 | 21°13 | 18°50 | 10° 8 | 2° 2 | 3° 6 | 16°44 | 18°20 |
| W 8 | 9 11 46 | 19°13'49 | 15°25 | 2°46 | 29♋31 | 19°55 | 7° 5 | 8°21 | 21°15 | 18°51 | 10° 8 | 1°51 | 3° 3 | 16°51 | 18°16 |
| T 9 | 9 15 42 | 20°14'26 | 27°52 | 4°29 | 28°57 | 20° 5 | 7°13 | 8°18 | 21°17 | 18°52 | 10° 7 | 1°44 | 3° 0 | 16°58 | 18°13 |
| F 10 | 9 19 39 | 21°15'01 | 10♏29 | 6°10 | 28°23 | 20°14 | 7°21 | 8°15 | 21°19 | 18°54 | 10° 7 | 1°39 | 2°56 | 17° 4 | 18° 9 |
| S 11 | 9 23 36 | 22°15'35 | 23°19 | 7°48 | 27°47 | 20°23 | 7°28 | 8°13 | 21°22 | 18°55 | 10° 7 | 1°37 | 2°53 | 17°11 | 18° 5 |
| S 12 | 9 27 32 | 23°16'08 | 6♈23 | 9°24 | 27°10 | 20°31 | 7°36 | 8°10 | 21°24 | 18°56 | 10° 7 | 1°D37 | 2°50 | 17°18 | 18° 1 |
| M 13 | 9 31 29 | 24°16'40 | 19°46 | 10°56 | 26°33 | 20°39 | 7°43 | 8° 7 | 21°26 | 18°57 | 10° 6 | 1°R37 | 2°47 | 17°24 | 17°57 |
| T 14 | 9 35 25 | 25°17'11 | 3♎29 | 12°25 | 25°56 | 20°46 | 7°50 | 8° 5 | 21°28 | 18°58 | 10° 6 | 1°37 | 2°44 | 17°31 | 17°53 |
| W 15 | 9 39 22 | 26°17'40 | 17°33 | 13°48 | 25°18 | 20°52 | 7°57 | 8° 2 | 21°30 | 19° 0 | 10° 6 | 1°35 | 2°40 | 17°38 | 17°48 |
| T 16 | 9 43 18 | 27°18'08 | 1♉59 | 15° 6 | 24°41 | 20°57 | 8° 4 | 8° 0 | 21°32 | 19° 1 | 10° 6 | 1°31 | 2°37 | 17°45 | 17°44 |
| F 17 | 9 47 15 | 28°18'35 | 16°43 | 16°18 | 24° 4 | 21° 2 | 8°10 | 7°57 | 21°34 | 19° 2 | 10° 6 | 1°24 | 2°34 | 17°51 | 17°40 |
| S 18 | 9 51 11 | 29°19'00 | 1♋40 | 17°24 | 23°28 | 21° 7 | 8°17 | 7°55 | 21°36 | 19° 3 | 10° 6 | 1°15 | 2°31 | 17°58 | 17°36 |
| S 19 | 9 55 8 | 0♈1924 | 16°41 | 18°22 | 22°53 | 21°10 | 8°23 | 7°53 | 21°38 | 19° 4 | 10° 6 | 1° 6 | 2°28 | 18° 5 | 17°31 |
| M 20 | 9 59 5 | 1°19'46 | 1♈37 | 19°12 | 22°19 | 21°13 | 8°30 | 7°51 | 21°40 | 19° 5 | 10° 5 | 0°56 | 2°25 | 18°11 | 17°27 |
| T 21 | 10 3 1 | 2°20'06 | 16°18 | 19°54 | 21°47 | 21°15 | 8°36 | 7°49 | 21°41 | 19° 6 | 10° 5 | 0°48 | 2°21 | 18°18 | 17°22 |
| W 22 | 10 6 58 | 3°20'24 | 0♎38 | 20°26 | 21°16 | 21°17 | 8°42 | 7°48 | 21°43 | 19° 7 | 10° 5 | 0°42 | 2°18 | 18°25 | 17°18 |
| T 23 | 10 10 54 | 4°20'40 | 14°30 | 20°50 | 20°47 | 21°R17 | 8°47 | 7°46 | 21°45 | 19° 8 | 10°D 5 | 0°38 | 2°15 | 18°32 | 17°13 |
| F 24 | 10 14 51 | 5°20'55 | 27°56 | 21° 4 | 20°19 | 21°17 | 8°53 | 7°44 | 21°46 | 19° 9 | 10° 5 | 0°D37 | 2°12 | 18°38 | 17° 8 |
| S 25 | 10 18 47 | 6°21'07 | 10♉54 | 21°R 9 | 19°54 | 21°16 | 8°58 | 7°43 | 21°48 | 19° 9 | 10° 5 | 0°37 | 2° 9 | 18°45 | 17° 4 |
| S 26 | 10 22 44 | 7°21'18 | 23°30 | 21° 4 | 19°31 | 21°15 | 9° 4 | 7°42 | 21°50 | 19°10 | 10° 6 | 0°38 | 2° 6 | 18°52 | 16°59 |
| M 27 | 10 26 40 | 8°21'26 | 5♈47 | 20°49 | 19°10 | 21°13 | 9° 9 | 7°40 | 21°51 | 19°11 | 10° 6 | 0°R39 | 2° 2 | 18°58 | 16°54 |
| T 28 | 10 30 37 | 9♈21'32 | 17♈50 | 20♈29 | 18♋52 | 21♏10 | 9♎14 | 7♉39 | 21°53 | 19°12 | 10♈ 6 | 0♉39 | 1♉59 | 19♉ 5 | 16♎50 |

Delta T = 45.23 sec. Greg. Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [13.11.2015]

SWISS EPHEMERIS for the year 1651

NOVEMBER 1651 GC

00:00 UT

Table with 16 columns (Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♄, ♆, ♅, ♄, ☿) for November 1651. Rows W 1 to T 30.

Delta T = 44.49 sec. Greg. Calendar

DECEMBER 1651 GC

00:00 UT

Table with 16 columns (Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♄, ♆, ♅, ♄, ☿) for December 1651. Rows F 1 to S 31.

Delta T = 44.41 sec. Greg. Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [13.11.2015]