

SWISS EPHEMERIS for the year 1620
heliocentric

JANUARY 1620 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|---------|-----------------------|--------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|--------------------|
| W 1 | 6 40 2 | 10 ⁵ 7'47 | 10 ¹⁴ | 18 ¹⁰ 10 | 23 ³ 7 | 10 ¹⁴ 14 | 17 ⁴⁰ 40 | 19 ⁴⁵ 45 | 25 ⁵³ 53 | 9 ⁵³ 53 | 11 ³⁸ 38 | 0 ³⁴ 34 |
| T 2 | 6 43 59 | 11° 8'58 | 11°14 | 21°56 | 24°41 | 10°52 | 17°45 | 19°48 | 25°54 | 9°53 | 11°38 | 0°35 |
| F 3 | 6 47 55 | 12°10'09 | 12°13 | 25°48 | 26°16 | 11°30 | 17°51 | 19°50 | 25°55 | 9°54 | 11°39 | 0°36 |
| S 4 | 6 51 52 | 13°11'20 | 13°13 | 29°46 | 29°46 | 12° 8 | 17°56 | 19°52 | 25°56 | 9°54 | 11°39 | 0°36 |
| S 5 | 6 55 48 | 14°12'31 | 14°12 | 3 ³ 51 | 29°26 | 12°46 | 18° 2 | 19°54 | 25°56 | 9°54 | 11°39 | 0°37 |
| M 6 | 6 59 45 | 15°13'41 | 15°12 | 8° 4 | 1 ¹ 1 | 13°24 | 18° 7 | 19°57 | 25°57 | 9°55 | 11°39 | 0°38 |
| T 7 | 7 3 42 | 16°14'51 | 16°11 | 12°24 | 2°35 | 14° 2 | 18°13 | 19°59 | 25°58 | 9°55 | 11°39 | 0°38 |
| W 8 | 7 7 38 | 17°16'01 | 17°11 | 16°53 | 4°10 | 14°40 | 18°18 | 20° 1 | 25°59 | 9°56 | 11°39 | 0°39 |
| T 9 | 7 11 35 | 18°17'10 | 18°11 | 21°29 | 5°45 | 15°17 | 18°24 | 20° 3 | 25°59 | 9°56 | 11°39 | 0°40 |
| F 10 | 7 15 31 | 19°18'18 | 19°11 | 26°15 | 7°20 | 15°55 | 18°29 | 20° 6 | 26° 0 | 9°56 | 11°40 | 0°41 |
| S 11 | 7 19 28 | 20°19'25 | 20°11 | 1 ⁹ 9 | 8°55 | 16°33 | 18°35 | 20° 8 | 26° 1 | 9°57 | 11°40 | 0°41 |
| S 12 | 7 23 24 | 21°20'32 | 21°12 | 6°12 | 10°30 | 17°11 | 18°40 | 20°10 | 26° 2 | 9°57 | 11°40 | 0°42 |
| M13 | 7 27 21 | 22°21'38 | 22°13 | 11°25 | 12° 5 | 17°48 | 18°46 | 20°13 | 26° 2 | 9°57 | 11°40 | 0°43 |
| T 14 | 7 31 17 | 23°22'43 | 23°14 | 16°46 | 13°39 | 18°26 | 18°51 | 20°15 | 26° 3 | 9°58 | 11°40 | 0°44 |
| W15 | 7 35 14 | 24°23'47 | 24°16 | 22°17 | 15°14 | 19° 4 | 18°57 | 20°17 | 26° 4 | 9°58 | 11°40 | 0°44 |
| T 16 | 7 39 11 | 25°24'51 | 25°18 | 27°56 | 16°49 | 19°42 | 19° 2 | 20°19 | 26° 5 | 9°58 | 11°41 | 0°45 |
| F 17 | 7 43 7 | 26°25'53 | 26°21 | 3 ⁸ 43 | 18°24 | 20°19 | 19° 8 | 20°22 | 26° 5 | 9°59 | 11°41 | 0°46 |
| S 18 | 7 47 4 | 27°26'55 | 27°24 | 9°39 | 19°59 | 20°57 | 19°13 | 20°24 | 26° 6 | 9°59 | 11°41 | 0°46 |
| S 19 | 7 51 0 | 28°27'55 | 28°27 | 15°41 | 21°34 | 21°34 | 19°19 | 20°26 | 26° 7 | 9°59 | 11°41 | 0°47 |
| M20 | 7 54 57 | 29°28'55 | 29°30 | 21°48 | 23° 9 | 22°12 | 19°24 | 20°28 | 26° 8 | 10° 0 | 11°41 | 0°48 |
| T 21 | 7 58 53 | 0 ⁰ 29'54 | 0 ⁰ 23 | 28° 1 | 24°44 | 22°49 | 19°29 | 20°31 | 26° 9 | 10° 0 | 11°41 | 0°49 |
| W22 | 8 2 50 | 1°30'52 | 1°36 | 4 ¹¹ 17 | 26°19 | 23°27 | 19°35 | 20°33 | 26° 9 | 10° 1 | 11°41 | 0°49 |
| T 23 | 8 6 47 | 2°31'49 | 2°38 | 10°36 | 27°54 | 24° 4 | 19°40 | 20°35 | 26°10 | 10° 1 | 11°42 | 0°50 |
| F 24 | 8 10 43 | 3°32'45 | 3°40 | 16°55 | 29°29 | 24°42 | 19°46 | 20°37 | 26°11 | 10° 1 | 11°42 | 0°51 |
| S 25 | 8 14 40 | 4°33'41 | 4°42 | 23°13 | 1 ¹ 4 | 25°19 | 19°51 | 20°40 | 26°12 | 10° 2 | 11°42 | 0°51 |
| S 26 | 8 18 36 | 5°34'36 | 5°44 | 29°29 | 2°39 | 25°57 | 19°57 | 20°42 | 26°12 | 10° 2 | 11°42 | 0°52 |
| M27 | 8 22 33 | 6°35'30 | 6°45 | 5 ⁵ 42 | 4°14 | 26°34 | 20° 2 | 20°44 | 26°13 | 10° 2 | 11°42 | 0°53 |
| T 28 | 8 26 29 | 7°36'24 | 7°45 | 11°49 | 5°50 | 27°11 | 20° 8 | 20°46 | 26°14 | 10° 3 | 11°42 | 0°54 |
| W29 | 8 30 26 | 8°37'17 | 8°46 | 17°50 | 7°25 | 27°49 | 20°13 | 20°49 | 26°15 | 10° 3 | 11°43 | 0°54 |
| T 30 | 8 34 22 | 9°38'09 | 9°45 | 23°43 | 9° 0 | 28°26 | 20°19 | 20°51 | 26°15 | 10° 3 | 11°43 | 0°55 |
| F 31 | 8 38 19 | 10 ⁰ 39'00 | 10 ⁰ 45 | 29 ⁵ 29 | 10 ¹ 35 | 29 ¹ 3 | 20 ¹ 24 | 20 ¹ 53 | 26 ¹ 16 | 10 ¹ 4 | 11 ¹ 43 | 0 ¹ 56 |

Delta T = 93.34 sec.

Greg. Calendar

FEBRUARY 1620 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|
| S 1 | 8 42 16 | 11 ⁰ 39'50 | 11 ⁰ 44 | 5 ⁰ 5 | 12 ¹ 10 | 29 ¹ 40 | 20 ¹ 30 | 20 ¹ 55 | 26 ¹ 17 | 10 ¹ 4 | 11 ¹ 43 | 0 ¹ 56 |
| S 2 | 8 46 12 | 12°40'38 | 12°44 | 10°33 | 13°46 | 0 ¹ 17 | 20°35 | 20°58 | 26°18 | 10° 4 | 11°43 | 0°57 |
| M 3 | 8 50 9 | 13°41'26 | 13°43 | 15°51 | 15°21 | 0°55 | 20°41 | 21° 0 | 26°18 | 10° 5 | 11°43 | 0°58 |
| T 4 | 8 54 5 | 14°42'12 | 14°42 | 20°59 | 16°56 | 1°32 | 20°46 | 21° 2 | 26°19 | 10° 5 | 11°44 | 0°59 |
| W 5 | 8 58 2 | 15°42'57 | 15°41 | 25°58 | 18°31 | 2° 9 | 20°52 | 21° 4 | 26°20 | 10° 6 | 11°44 | 0°59 |
| T 6 | 9 1 58 | 16°43'40 | 16°40 | 0 ¹ 47 | 20° 7 | 2°46 | 20°57 | 21° 7 | 26°21 | 10° 6 | 11°44 | 1° 0 |
| F 7 | 9 5 55 | 17°44'22 | 17°39 | 5°27 | 21°42 | 3°23 | 21° 3 | 21° 9 | 26°21 | 10° 6 | 11°44 | 1° 1 |
| S 8 | 9 9 51 | 18°45'03 | 18°38 | 9°58 | 23°17 | 4° 0 | 21° 8 | 21°11 | 26°22 | 10° 7 | 11°44 | 1° 1 |
| S 9 | 9 13 48 | 19°45'41 | 19°38 | 14°20 | 24°53 | 4°36 | 21°14 | 21°14 | 26°23 | 10° 7 | 11°44 | 1° 2 |
| M10 | 9 17 45 | 20°46'18 | 20°38 | 18°34 | 26°28 | 5°13 | 21°19 | 21°16 | 26°24 | 10° 7 | 11°44 | 1° 3 |
| T 11 | 9 21 41 | 21°46'54 | 21°38 | 22°40 | 28° 4 | 5°50 | 21°25 | 21°18 | 26°24 | 10° 8 | 11°45 | 1° 4 |
| W12 | 9 25 38 | 22°47'27 | 22°39 | 26°39 | 29°39 | 6°27 | 21°30 | 21°20 | 26°25 | 10° 8 | 11°45 | 1° 4 |
| T 13 | 9 29 34 | 23°47'59 | 23°40 | 0 ¹ 30 | 1 ¹ 15 | 7° 4 | 21°36 | 21°23 | 26°26 | 10° 8 | 11°45 | 1° 5 |
| F 14 | 9 33 31 | 24°48'29 | 24°41 | 4°16 | 2°50 | 7°40 | 21°41 | 21°25 | 26°27 | 10° 9 | 11°45 | 1° 6 |
| S 15 | 9 37 27 | 25°48'57 | 25°43 | 7°55 | 4°26 | 8°17 | 21°47 | 21°27 | 26°27 | 10° 9 | 11°45 | 1° 6 |
| S 16 | 9 41 24 | 26°49'23 | 26°45 | 11°28 | 6° 1 | 8°53 | 21°52 | 21°29 | 26°28 | 10° 9 | 11°45 | 1° 7 |
| M17 | 9 45 20 | 27°49'48 | 27°48 | 14°56 | 7°37 | 9°30 | 21°57 | 21°32 | 26°29 | 10°10 | 11°46 | 1° 8 |
| T 18 | 9 49 17 | 28°50'10 | 28°50 | 18°19 | 9°13 | 10° 7 | 22° 3 | 21°34 | 26°30 | 10°10 | 11°46 | 1° 9 |
| W19 | 9 53 14 | 29°50'31 | 29°52 | 21°38 | 10°48 | 10°43 | 22° 8 | 21°36 | 26°30 | 10°10 | 11°46 | 1° 9 |
| T 20 | 9 57 10 | 0 ¹ 50'50 | 0 ¹ 55 | 24°52 | 12°24 | 11°19 | 22°14 | 21°38 | 26°31 | 10°11 | 11°46 | 1°10 |
| F 21 | 10 1 7 | 1°51'08 | 1°57 | 28° 2 | 14° 0 | 11°56 | 22°19 | 21°41 | 26°32 | 10°11 | 11°46 | 1°11 |
| S 22 | 10 5 3 | 2°51'24 | 2°58 | 1 ¹ 9 | 15°35 | 12°32 | 22°25 | 21°43 | 26°33 | 10°12 | 11°46 | 1°11 |
| S 23 | 10 9 0 | 3°51'38 | 4° 0 | 4°13 | 17°11 | 13° 8 | 22°30 | 21°45 | 26°33 | 10°12 | 11°46 | 1°12 |
| M24 | 10 12 56 | 4°51'51 | 5° 1 | 7°14 | 18°47 | 13°45 | 22°36 | 21°47 | 26°34 | 10°12 | 11°47 | 1°13 |
| T 25 | 10 16 53 | 5°52'03 | 6° 1 | 10°12 | 20°23 | 14°21 | 22°41 | 21°50 | 26°35 | 10°13 | 11°47 | 1°14 |
| W26 | 10 20 49 | 6°52'13 | 7° 1 | 13° 7 | 21°58 | 14°57 | 22°47 | 21°52 | 26°36 | 10°13 | 11°47 | 1°14 |
| T 27 | 10 24 46 | 7°52'22 | 8° 1 | 16° 1 | 23°34 | 15°33 | 22°52 | 21°54 | 26°36 | 10°13 | 11°47 | 1°15 |
| F 28 | 10 28 43 | 8°52'28 | 9° 1 | 18°52 | 25°10 | 16° 9 | 22°58 | 21°56 | 26°37 | 10°14 | 11°47 | 1°16 |
| S 29 | 10 32 39 | 9 ¹ 52'34 | 10 ¹ 0 | 21 ¹ 42 | 26 ¹ 46 | 16 ¹ 45 | 23 ¹ 3 | 21 ¹ 59 | 26 ¹ 38 | 10 ¹ 14 | 11 ¹ 47 | 1 ¹ 16 |

Delta T = 93.22 sec.

Greg. Calendar

created from Swiss Ephemeris, Copyright Astrodienst AG [13.11.2015]

SWISS EPHEMERIS for the year 1620
heliocentric

MARCH 1620 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| S 1 | 10 36 36 | 10♎52'37 | 10♎58 | 24♌31 | 28♃22 | 17♃21 | 23♃9 | 22♎1 | 26♎39 | 10♎14 | 11♎48 | 1♊17 |
| M 2 | 10 40 32 | 11°52'39 | 11°57 | 27°18 | 29°58 | 17°57 | 23°14 | 22°3 | 26°39 | 10°15 | 11°48 | 1°18 |
| T 3 | 10 44 29 | 12°52'39 | 12°55 | 0♊5 | 1♃34 | 18°33 | 23°20 | 22°5 | 26°40 | 10°15 | 11°48 | 1°19 |
| W 4 | 10 48 25 | 13°52'37 | 13°53 | 2°50 | 3°10 | 19°8 | 23°25 | 22°8 | 26°41 | 10°15 | 11°48 | 1°19 |
| T 5 | 10 52 22 | 14°52'33 | 14°51 | 5°35 | 4°46 | 19°44 | 23°31 | 22°10 | 26°42 | 10°16 | 11°48 | 1°20 |
| F 6 | 10 56 18 | 15°52'28 | 15°50 | 8°20 | 6°22 | 20°20 | 23°36 | 22°12 | 26°42 | 10°16 | 11°48 | 1°21 |
| S 7 | 11 0 15 | 16°52'20 | 16°48 | 11°5 | 7°58 | 20°56 | 23°42 | 22°15 | 26°43 | 10°17 | 11°48 | 1°21 |
| S 8 | 11 4 11 | 17°52'10 | 17°46 | 13°49 | 9°34 | 21°31 | 23°47 | 22°17 | 26°44 | 10°17 | 11°49 | 1°22 |
| M 9 | 11 8 8 | 18°51'58 | 18°45 | 16°34 | 11°11 | 22°7 | 23°52 | 22°19 | 26°45 | 10°17 | 11°49 | 1°23 |
| T 10 | 11 12 5 | 19°51'44 | 19°44 | 19°20 | 12°47 | 22°42 | 23°58 | 22°21 | 26°45 | 10°18 | 11°49 | 1°24 |
| W11 | 11 16 1 | 20°51'27 | 20°43 | 22°6 | 14°23 | 23°18 | 24°3 | 22°24 | 26°46 | 10°18 | 11°49 | 1°24 |
| T 12 | 11 19 58 | 21°51'08 | 21°43 | 24°53 | 15°59 | 23°53 | 24°9 | 22°26 | 26°47 | 10°18 | 11°49 | 1°25 |
| F 13 | 11 23 54 | 22°50'47 | 22°43 | 27°41 | 17°36 | 24°28 | 24°14 | 22°28 | 26°48 | 10°19 | 11°49 | 1°26 |
| S 14 | 11 27 51 | 23°50'24 | 23°43 | 0♊31 | 19°12 | 25°4 | 24°20 | 22°30 | 26°48 | 10°19 | 11°50 | 1°26 |
| S 15 | 11 31 47 | 24°49'58 | 24°44 | 3°22 | 20°48 | 25°39 | 24°25 | 22°33 | 26°49 | 10°19 | 11°50 | 1°27 |
| M16 | 11 35 44 | 25°49'30 | 25°45 | 6°14 | 22°25 | 26°14 | 24°31 | 22°35 | 26°50 | 10°20 | 11°50 | 1°28 |
| T 17 | 11 39 40 | 26°49'00 | 26°46 | 9°9 | 24°1 | 26°49 | 24°36 | 22°37 | 26°51 | 10°20 | 11°50 | 1°29 |
| W18 | 11 43 37 | 27°48'27 | 27°48 | 12°6 | 25°37 | 27°24 | 24°42 | 22°39 | 26°51 | 10°20 | 11°50 | 1°29 |
| T 19 | 11 47 34 | 28°47'52 | 28°49 | 15°6 | 27°14 | 27°59 | 24°47 | 22°42 | 26°52 | 10°21 | 11°50 | 1°30 |
| F 20 | 11 51 30 | 29°47'16 | 29°50 | 18°8 | 28°50 | 28°34 | 24°53 | 22°44 | 26°53 | 10°21 | 11°50 | 1°31 |
| S 21 | 11 55 27 | 0♋46'37 | 0♋51 | 21°13 | 0♎27 | 29°9 | 24°58 | 22°46 | 26°54 | 10°21 | 11°51 | 1°31 |
| S 22 | 11 59 23 | 1°45'57 | 1°52 | 24°21 | 2°3 | 29°44 | 25°4 | 22°48 | 26°54 | 10°22 | 11°51 | 1°32 |
| M23 | 12 3 20 | 2°45'14 | 2°53 | 27°33 | 3°40 | 0♎19 | 25°9 | 22°51 | 26°55 | 10°22 | 11°51 | 1°33 |
| T 24 | 12 7 16 | 3°44'30 | 3°53 | 0♋49 | 5°17 | 0°53 | 25°15 | 22°53 | 26°56 | 10°23 | 11°51 | 1°34 |
| W25 | 12 11 13 | 4°43'45 | 4°53 | 4°9 | 6°53 | 1°28 | 25°20 | 22°55 | 26°57 | 10°23 | 11°51 | 1°34 |
| T 26 | 12 15 9 | 5°42'57 | 5°52 | 7°34 | 8°30 | 2°3 | 25°25 | 22°57 | 26°57 | 10°23 | 11°51 | 1°35 |
| F 27 | 12 19 6 | 6°42'08 | 6°51 | 11°3 | 10°7 | 2°37 | 25°31 | 23°0 | 26°58 | 10°24 | 11°52 | 1°36 |
| S 28 | 12 23 3 | 7°41'16 | 7°50 | 14°37 | 11°43 | 3°12 | 25°36 | 23°2 | 26°59 | 10°24 | 11°52 | 1°36 |
| S 29 | 12 26 59 | 8°40'23 | 8°48 | 18°17 | 13°20 | 3°46 | 25°42 | 23°4 | 27°0 | 10°24 | 11°52 | 1°37 |
| M30 | 12 30 56 | 9°39'28 | 9°46 | 22°3 | 14°57 | 4°21 | 25°47 | 23°6 | 27°0 | 10°25 | 11°52 | 1°38 |
| T 31 | 12 34 52 | 10♌38'31 | 10♌44 | 25♌55 | 16♎34 | 4♎55 | 25♃53 | 23♎9 | 27♎1 | 10♌25 | 11♎52 | 1♊39 |

Delta T = 93.10 sec. Greg. Calendar

APRIL 1620 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| W 1 | 12 38 49 | 11♌37'33 | 11♌41 | 29♌53 | 18♎11 | 5♎29 | 25♃58 | 23♎11 | 27♎2 | 10♌25 | 11♎52 | 1♊39 |
| T 2 | 12 42 45 | 12°36'32 | 12°38 | 3♋59 | 19°48 | 6°3 | 26°4 | 23°13 | 27°3 | 10°26 | 11°53 | 1°40 |
| F 3 | 12 46 42 | 13°35'29 | 13°35 | 8°12 | 21°24 | 6°38 | 26°9 | 23°16 | 27°3 | 10°26 | 11°53 | 1°41 |
| S 4 | 12 50 38 | 14°34'25 | 14°33 | 12°32 | 23°1 | 7°12 | 26°15 | 23°18 | 27°4 | 10°26 | 11°53 | 1°41 |
| S 5 | 12 54 35 | 15°33'18 | 15°30 | 17°1 | 24°38 | 7°46 | 26°20 | 23°20 | 27°5 | 10°27 | 11°53 | 1°42 |
| M 6 | 12 58 31 | 16°32'09 | 16°27 | 21°38 | 26°15 | 8°20 | 26°26 | 23°22 | 27°6 | 10°27 | 11°53 | 1°43 |
| T 7 | 13 2 28 | 17°30'58 | 17°24 | 26°24 | 27°52 | 8°54 | 26°31 | 23°25 | 27°6 | 10°27 | 11°53 | 1°44 |
| W 8 | 13 6 25 | 18°29'45 | 18°22 | 1♃18 | 29°29 | 9°28 | 26°37 | 23°27 | 27°7 | 10°28 | 11°53 | 1°44 |
| T 9 | 13 10 21 | 19°28'30 | 19°20 | 6°22 | 1♎7 | 10°1 | 26°42 | 23°29 | 27°8 | 10°28 | 11°54 | 1°45 |
| F 10 | 13 14 18 | 20°27'12 | 20°19 | 11°35 | 2°44 | 10°35 | 26°48 | 23°31 | 27°9 | 10°29 | 11°54 | 1°46 |
| S 11 | 13 18 14 | 21°25'52 | 21°18 | 16°56 | 4°21 | 11°9 | 26°53 | 23°34 | 27°9 | 10°29 | 11°54 | 1°46 |
| S 12 | 13 22 11 | 22°24'30 | 22°17 | 22°27 | 5°58 | 11°43 | 26°58 | 23°36 | 27°10 | 10°29 | 11°54 | 1°47 |
| M13 | 13 26 7 | 23°23'05 | 23°17 | 28°7 | 7°35 | 12°16 | 27°4 | 23°38 | 27°11 | 10°30 | 11°54 | 1°48 |
| T 14 | 13 30 4 | 24°21'39 | 24°16 | 3♋54 | 9°12 | 12°50 | 27°9 | 23°40 | 27°12 | 10°30 | 11°54 | 1°48 |
| W15 | 13 34 0 | 25°20'10 | 25°17 | 9°50 | 10°50 | 13°23 | 27°15 | 23°43 | 27°12 | 10°30 | 11°55 | 1°49 |
| T 16 | 13 37 57 | 26°18'39 | 26°17 | 15°52 | 12°27 | 13°57 | 27°20 | 23°45 | 27°13 | 10°31 | 11°55 | 1°50 |
| F 17 | 13 41 54 | 27°17'06 | 27°17 | 22°0 | 14°4 | 14°30 | 27°26 | 23°47 | 27°14 | 10°31 | 11°55 | 1°51 |
| S 18 | 13 45 50 | 28°15'31 | 28°17 | 28°13 | 15°42 | 15°3 | 27°31 | 23°49 | 27°15 | 10°31 | 11°55 | 1°51 |
| S 19 | 13 49 47 | 29°13'54 | 29°18 | 4♎29 | 17°19 | 15°37 | 27°37 | 23°52 | 27°15 | 10°32 | 11°55 | 1°52 |
| M20 | 13 53 43 | 0♎12'16 | 0♎18 | 10°48 | 18°56 | 16°10 | 27°42 | 23°54 | 27°16 | 10°32 | 11°55 | 1°53 |
| T 21 | 13 57 40 | 1°10'36 | 1°17 | 17°7 | 20°34 | 16°43 | 27°48 | 23°56 | 27°17 | 10°32 | 11°55 | 1°53 |
| W22 | 14 1 36 | 2°8'55 | 2°17 | 23°25 | 22°11 | 17°16 | 27°53 | 23°58 | 27°18 | 10°33 | 11°56 | 1°54 |
| T 23 | 14 5 33 | 3°7'12 | 3°16 | 29°41 | 23°48 | 17°49 | 27°59 | 24°1 | 27°18 | 10°33 | 11°56 | 1°55 |
| F 24 | 14 9 29 | 4°5'27 | 4°15 | 5♎53 | 25°26 | 18°22 | 28°4 | 24°3 | 27°19 | 10°34 | 11°56 | 1°56 |
| S 25 | 14 13 26 | 5°3'41 | 5°13 | 12°0 | 27°3 | 18°55 | 28°9 | 24°5 | 27°20 | 10°34 | 11°56 | 1°56 |
| S 26 | 14 17 23 | 6°1'53 | 6°11 | 18°1 | 28°41 | 19°28 | 28°15 | 24°7 | 27°21 | 10°34 | 11°56 | 1°57 |
| M27 | 14 21 19 | 7°0'04 | 7°8 | 23°54 | 0♎18 | 20°1 | 28°20 | 24°10 | 27°21 | 10°35 | 11°56 | 1°58 |
| T 28 | 14 25 16 | 7°58'13 | 8°6 | 29°39 | 1°56 | 20°33 | 28°26 | 24°12 | 27°22 | 10°35 | 11°57 | 1°58 |
| W29 | 14 29 12 | 8°56'21 | 9°2 | 5♎16 | 3°33 | 21°6 | 28°31 | 24°14 | 27°23 | 10°35 | 11°57 | 1°59 |
| T 30 | 14 33 9 | 9♎54'27 | 9♎59 | 10♎43 | 5♎11 | 21♎39 | 28♃37 | 24♎17 | 27♎24 | 10♎36 | 11♎57 | 2♊0 |

Delta T = 92.98 sec. Greg. Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [13.11.2015]

SWISS EPHEMERIS for the year 1620
heliocentric

MAY 1620 GC

00:00 UT

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

Delta T = 92.87 sec.

Greg. Calendar

JUNE 1620 GC

00:00 UT

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

Delta T = 92.75 sec.

Greg. Calendar

created from Swiss Ephemeris, Copyright Astrodienst AG [13.11.2015]

SWISS EPHEMERIS for the year 1620
heliocentric

JULY 1620 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|----------|----------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|
| W 1 | 18 37 35 | 9♁18°07' | 9♁16 | 12♃41 | 15♄24 | 23♅38 | 4♆15 | 26♁37 | 28♂10 | 10♄58 | 12♃7 | 2♃44 |
| T 2 | 18 41 32 | 10°15'20 | 10°12 | 17°10 | 17° 0 | 24° 8 | 4°20 | 26°39 | 28°11 | 10°58 | 12° 7 | 2°44 |
| F 3 | 18 45 28 | 11°12'33 | 11° 7 | 21°47 | 18°36 | 24°37 | 4°26 | 26°41 | 28°12 | 10°58 | 12° 7 | 2°45 |
| S 4 | 18 49 25 | 12° 9'46 | 12° 3 | 26°33 | 20°12 | 25° 6 | 4°31 | 26°43 | 28°13 | 10°59 | 12° 7 | 2°46 |
| S 5 | 18 53 22 | 13° 6'59 | 12°59 | 1♃28 | 21°47 | 25°36 | 4°37 | 26°46 | 28°14 | 10°59 | 12° 7 | 2°47 |
| M 6 | 18 57 18 | 14° 4'11 | 13°56 | 6°32 | 23°23 | 26° 5 | 4°42 | 26°48 | 28°14 | 11° 0 | 12° 7 | 2°47 |
| T 7 | 19 1 15 | 15° 1'24 | 14°53 | 11°45 | 24°59 | 26°34 | 4°47 | 26°50 | 28°15 | 11° 0 | 12° 7 | 2°48 |
| W 8 | 19 5 11 | 15°58'36 | 15°50 | 17° 7 | 26°34 | 27° 3 | 4°53 | 26°53 | 28°16 | 11° 0 | 12° 8 | 2°49 |
| T 9 | 19 9 8 | 16°55'49 | 16°48 | 22°38 | 28°10 | 27°32 | 4°58 | 26°55 | 28°17 | 11° 1 | 12° 8 | 2°49 |
| F 10 | 19 13 4 | 17°53'02 | 17°46 | 28°17 | 29°45 | 28° 1 | 5° 4 | 26°57 | 28°17 | 11° 1 | 12° 8 | 2°50 |
| S 11 | 19 17 1 | 18°50'14 | 18°44 | 4♃5 | 1♃21 | 28°30 | 5° 9 | 26°59 | 28°18 | 11° 1 | 12° 8 | 2°51 |
| S 12 | 19 20 57 | 19°47'28 | 19°43 | 10° 1 | 2°56 | 28°59 | 5°15 | 27° 2 | 28°19 | 11° 2 | 12° 8 | 2°51 |
| M13 | 19 24 54 | 20°44'41 | 20°42 | 16° 3 | 4°31 | 29°28 | 5°20 | 27° 4 | 28°20 | 11° 2 | 12° 8 | 2°52 |
| T 14 | 19 28 51 | 21°41'55 | 21°41 | 22°12 | 6° 7 | 29°57 | 5°26 | 27° 6 | 28°20 | 11° 2 | 12° 9 | 2°53 |
| W15 | 19 32 47 | 22°39'10 | 22°40 | 28°24 | 7°42 | 0♁26 | 5°31 | 27° 8 | 28°21 | 11° 3 | 12° 9 | 2°54 |
| T 16 | 19 36 44 | 23°36'25 | 23°39 | 4♅41 | 9°17 | 0°55 | 5°36 | 27°11 | 28°22 | 11° 3 | 12° 9 | 2°54 |
| F 17 | 19 40 40 | 24°33'40 | 24°38 | 10°59 | 10°52 | 1°24 | 5°42 | 27°13 | 28°23 | 11° 3 | 12° 9 | 2°55 |
| S 18 | 19 44 37 | 25°30'56 | 25°36 | 17°19 | 12°28 | 1°53 | 5°47 | 27°15 | 28°23 | 11° 4 | 12° 9 | 2°56 |
| S 19 | 19 48 33 | 26°28'13 | 26°35 | 23°37 | 14° 3 | 2°21 | 5°53 | 27°17 | 28°24 | 11° 4 | 12° 9 | 2°56 |
| M20 | 19 52 30 | 27°25'31 | 27°33 | 29°53 | 15°38 | 2°50 | 5°58 | 27°20 | 28°25 | 11° 4 | 12° 9 | 2°57 |
| T 21 | 19 56 26 | 28°22'50 | 28°31 | 6♁5 | 17°13 | 3°19 | 6° 4 | 27°22 | 28°26 | 11° 5 | 12°10 | 2°58 |
| W22 | 20 0 23 | 29°20'09 | 29°29 | 12°11 | 18°48 | 3°47 | 6° 9 | 27°24 | 28°26 | 11° 5 | 12°10 | 2°58 |
| T 23 | 20 4 20 | 0♁17°30 | 0♁26 | 18°12 | 20°23 | 4°16 | 6°14 | 27°26 | 28°27 | 11° 6 | 12°10 | 2°59 |
| F 24 | 20 8 16 | 1°14'52 | 1°23 | 24° 5 | 21°58 | 4°44 | 6°20 | 27°29 | 28°28 | 11° 6 | 12°10 | 3° 0 |
| S 25 | 20 12 13 | 2°12'15 | 2°20 | 29°50 | 23°33 | 5°13 | 6°25 | 27°31 | 28°29 | 11° 6 | 12°10 | 3° 1 |
| S 26 | 20 16 9 | 3° 9'40 | 3°16 | 5♄26 | 25° 8 | 5°41 | 6°31 | 27°33 | 28°29 | 11° 7 | 12°10 | 3° 1 |
| M27 | 20 20 6 | 4° 7'05 | 4°12 | 10°53 | 26°43 | 6° 9 | 6°36 | 27°35 | 28°30 | 11° 7 | 12°11 | 3° 2 |
| T 28 | 20 24 2 | 5° 4'31 | 5° 7 | 16°10 | 28°18 | 6°38 | 6°42 | 27°38 | 28°31 | 11° 7 | 12°11 | 3° 3 |
| W29 | 20 27 59 | 6° 1'59 | 6° 3 | 21°18 | 29°53 | 7° 6 | 6°47 | 27°40 | 28°32 | 11° 8 | 12°11 | 3° 3 |
| T 30 | 20 31 55 | 6°59'27 | 6°58 | 26°16 | 1♁28 | 7°34 | 6°52 | 27°42 | 28°32 | 11° 8 | 12°11 | 3° 4 |
| F 31 | 20 35 52 | 7♁56'57 | 7♁54 | 1♃5 | 3♁3 | 8♁3 | 6♁58 | 27♅44 | 28♁33 | 11♄8 | 12♃11 | 3♃5 |

Delta T = 92.63 sec. Greg. Calendar

AUGUST 1620 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|----------|----------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|
| S 1 | 20 39 49 | 8♁54'27 | 8♁50 | 5♄44 | 4♁38 | 8♁31 | 7♃3 | 27♅47 | 28♁34 | 11♄9 | 12♃11 | 3♃6 |
| S 2 | 20 43 45 | 9°51'58 | 9°46 | 10°14 | 6°13 | 8°59 | 7° 9 | 27°49 | 28°35 | 11° 9 | 12°11 | 3° 6 |
| M 3 | 20 47 42 | 10°49'30 | 10°42 | 14°36 | 7°47 | 9°27 | 7°14 | 27°51 | 28°35 | 11° 9 | 12°12 | 3° 7 |
| T 4 | 20 51 38 | 11°47'03 | 11°39 | 18°50 | 9°22 | 9°55 | 7°20 | 27°54 | 28°36 | 11°10 | 12°12 | 3° 8 |
| W 5 | 20 55 35 | 12°44'36 | 12°36 | 22°55 | 10°57 | 10°23 | 7°25 | 27°56 | 28°37 | 11°10 | 12°12 | 3° 8 |
| T 6 | 20 59 31 | 13°42'11 | 13°33 | 26°54 | 12°32 | 10°52 | 7°30 | 27°58 | 28°38 | 11°11 | 12°12 | 3° 9 |
| F 7 | 21 3 28 | 14°39'47 | 14°31 | 0♄45 | 14° 7 | 11°20 | 7°36 | 28° 0 | 28°38 | 11°11 | 12°12 | 3°10 |
| S 8 | 21 7 24 | 15°37'23 | 15°30 | 4°30 | 15°42 | 11°48 | 7°41 | 28° 3 | 28°39 | 11°11 | 12°12 | 3°10 |
| S 9 | 21 11 21 | 16°35'01 | 16°28 | 8° 8 | 17°16 | 12°15 | 7°47 | 28° 5 | 28°40 | 11°12 | 12°13 | 3°11 |
| M10 | 21 15 18 | 17°32'39 | 17°27 | 11°41 | 18°51 | 12°43 | 7°52 | 28° 7 | 28°41 | 11°12 | 12°13 | 3°12 |
| T 11 | 21 19 14 | 18°30'19 | 18°26 | 15° 9 | 20°26 | 13°11 | 7°58 | 28° 9 | 28°41 | 11°12 | 12°13 | 3°13 |
| W12 | 21 23 11 | 19°28'00 | 19°26 | 18°32 | 22° 1 | 13°39 | 8° 3 | 28°12 | 28°42 | 11°13 | 12°13 | 3°13 |
| T 13 | 21 27 7 | 20°25'42 | 20°25 | 21°50 | 23°36 | 14° 7 | 8° 8 | 28°14 | 28°43 | 11°13 | 12°13 | 3°14 |
| F 14 | 21 31 4 | 21°23'26 | 21°25 | 25° 4 | 25°10 | 14°35 | 8°14 | 28°16 | 28°44 | 11°13 | 12°13 | 3°15 |
| S 15 | 21 35 0 | 22°21'11 | 22°24 | 28°14 | 26°45 | 15° 2 | 8°19 | 28°18 | 28°44 | 11°14 | 12°14 | 3°15 |
| S 16 | 21 38 57 | 23°18'57 | 23°23 | 1♄21 | 28°20 | 15°30 | 8°25 | 28°21 | 28°45 | 11°14 | 12°14 | 3°16 |
| M17 | 21 42 53 | 24°16'45 | 24°23 | 4°25 | 29°55 | 15°58 | 8°30 | 28°23 | 28°46 | 11°14 | 12°14 | 3°17 |
| T 18 | 21 46 50 | 25°14'35 | 25°22 | 7°25 | 1♁30 | 16°26 | 8°36 | 28°25 | 28°47 | 11°15 | 12°14 | 3°17 |
| W19 | 21 50 47 | 26°12'26 | 26°20 | 10°23 | 3° 5 | 16°53 | 8°41 | 28°27 | 28°47 | 11°15 | 12°14 | 3°18 |
| T 20 | 21 54 43 | 27°10'19 | 27°19 | 13°18 | 4°39 | 17°21 | 8°46 | 28°30 | 28°48 | 11°16 | 12°14 | 3°19 |
| F 21 | 21 58 40 | 28° 8'14 | 28°17 | 16°12 | 6°14 | 17°48 | 8°52 | 28°32 | 28°49 | 11°16 | 12°14 | 3°20 |
| S 22 | 22 2 36 | 29° 6'11 | 29°15 | 19° 3 | 7°49 | 18°16 | 8°57 | 28°34 | 28°50 | 11°16 | 12°15 | 3°20 |
| S 23 | 22 6 33 | 0♃4'10 | 0♃12 | 21°53 | 9°24 | 18°43 | 9° 3 | 28°36 | 28°50 | 11°17 | 12°15 | 3°21 |
| M24 | 22 10 29 | 1° 2'11 | 1° 9 | 24°42 | 10°59 | 19°11 | 9° 8 | 28°39 | 28°51 | 11°17 | 12°15 | 3°22 |
| T 25 | 22 14 26 | 2° 0'14 | 2° 5 | 27°29 | 12°34 | 19°38 | 9°14 | 28°41 | 28°52 | 11°17 | 12°15 | 3°22 |
| W26 | 22 18 22 | 2°58'18 | 3° 2 | 0♃15 | 14° 9 | 20° 6 | 9°19 | 28°43 | 28°53 | 11°18 | 12°15 | 3°23 |
| T 27 | 22 22 19 | 3°56'24 | 3°58 | 3° 1 | 15°43 | 20°33 | 9°24 | 28°45 | 28°54 | 11°18 | 12°15 | 3°24 |
| F 28 | 22 26 16 | 4°54'32 | 4°54 | 5°46 | 17°18 | 21° 1 | 9°30 | 28°48 | 28°54 | 11°18 | 12°16 | 3°24 |
| S 29 | 22 30 12 | 5°52'42 | 5°50 | 8°31 | 18°53 | 21°28 | 9°35 | 28°50 | 28°55 | 11°19 | 12°16 | 3°25 |
| S 30 | 22 34 9 | 6°50'53 | 6°47 | 11°15 | 20°28 | 21°55 | 9°41 | 28°52 | 28°56 | 11°19 | 12°16 | 3°26 |
| M31 | 22 38 5 | 7♃49°06 | 7♃43 | 14♃0 | 22♁3 | 22♁23 | 9♃46 | 28♅55 | 28♁57 | 11♄19 | 12♃16 | 3♃27 |

Delta T = 92.51 sec. Greg. Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [13.11.2015]

SWISS EPHEMERIS for the year 1620
heliocentric

SEPTEMBER 1620 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♁ | ♂ | ♄ | ♃ | ♅ | ♁ | ♆ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| T 1 | 22 42 2 | 8°47'20 | 8°40 | 16°45 | 23°38 | 22°50 | 9°51 | 28°57 | 28°57 | 11°20 | 12°16 | 3°27 |
| W 2 | 22 45 58 | 9°45'36 | 9°37 | 19°30 | 25°13 | 23°17 | 9°57 | 28°59 | 28°58 | 11°20 | 12°16 | 3°28 |
| T 3 | 22 49 55 | 10°43'54 | 10°35 | 22°17 | 26°48 | 23°44 | 10° 2 | 29° 1 | 28°59 | 11°20 | 12°16 | 3°29 |
| F 4 | 22 53 51 | 11°42'13 | 11°33 | 25° 4 | 28°23 | 24°12 | 10° 8 | 29° 4 | 29° 0 | 11°21 | 12°17 | 3°29 |
| S 5 | 22 57 48 | 12°40'33 | 12°32 | 27°52 | 29°58 | 24°39 | 10°13 | 29° 6 | 29° 0 | 11°21 | 12°17 | 3°30 |
| S 6 | 23 1 45 | 13°38'56 | 13°31 | 0°42 | 1°33 | 25° 6 | 10°19 | 29° 8 | 29° 1 | 11°22 | 12°17 | 3°31 |
| M 7 | 23 5 41 | 14°37'19 | 14°30 | 3°33 | 3° 8 | 25°33 | 10°24 | 29°10 | 29° 2 | 11°22 | 12°17 | 3°31 |
| T 8 | 23 9 38 | 15°35'45 | 15°29 | 6°26 | 4°44 | 26° 0 | 10°29 | 29°13 | 29° 3 | 11°22 | 12°17 | 3°32 |
| W 9 | 23 13 34 | 16°34'12 | 16°29 | 9°20 | 6°19 | 26°27 | 10°35 | 29°15 | 29° 3 | 11°23 | 12°17 | 3°33 |
| T 10 | 23 17 31 | 17°32'41 | 17°29 | 12°18 | 7°54 | 26°54 | 10°40 | 29°17 | 29° 4 | 11°23 | 12°18 | 3°34 |
| F 11 | 23 21 27 | 18°31'11 | 18°29 | 15°17 | 9°29 | 27°21 | 10°46 | 29°19 | 29° 5 | 11°23 | 12°18 | 3°34 |
| S 12 | 23 25 24 | 19°29'44 | 19°30 | 18°20 | 11° 4 | 27°48 | 10°51 | 29°22 | 29° 6 | 11°24 | 12°18 | 3°35 |
| S 13 | 23 29 20 | 20°28'18 | 20°30 | 21°25 | 12°39 | 28°15 | 10°56 | 29°24 | 29° 6 | 11°24 | 12°18 | 3°36 |
| M14 | 23 33 17 | 21°26'55 | 21°30 | 24°34 | 14°15 | 28°42 | 11° 2 | 29°26 | 29° 7 | 11°24 | 12°18 | 3°36 |
| T 15 | 23 37 13 | 22°25'33 | 22°31 | 27°46 | 15°50 | 29° 9 | 11° 7 | 29°28 | 29° 8 | 11°25 | 12°18 | 3°37 |
| W16 | 23 41 10 | 23°24'14 | 23°31 | 1°22 | 17°25 | 29°36 | 11°13 | 29°31 | 29° 9 | 11°25 | 12°18 | 3°38 |
| T 17 | 23 45 7 | 24°22'57 | 24°30 | 4°22 | 19° 1 | 0° 3 | 11°18 | 29°33 | 29° 9 | 11°25 | 12°19 | 3°38 |
| F 18 | 23 49 3 | 25°21'42 | 25°30 | 7°47 | 20°36 | 0°30 | 11°24 | 29°35 | 29°10 | 11°26 | 12°19 | 3°39 |
| S 19 | 23 53 0 | 26°20'30 | 26°29 | 11°16 | 22°11 | 0°57 | 11°29 | 29°37 | 29°11 | 11°26 | 12°19 | 3°40 |
| S 20 | 23 56 56 | 27°19'20 | 27°28 | 14°51 | 23°47 | 1°24 | 11°34 | 29°40 | 29°12 | 11°27 | 12°19 | 3°40 |
| M21 | 0 0 53 | 28°18'12 | 28°26 | 18°31 | 25°22 | 1°50 | 11°40 | 29°42 | 29°12 | 11°27 | 12°19 | 3°41 |
| T 22 | 0 4 49 | 29°17'07 | 29°24 | 22°17 | 26°57 | 2°17 | 11°45 | 29°44 | 29°13 | 11°27 | 12°19 | 3°42 |
| W23 | 0 8 46 | 0°16'03 | 0°12 | 26°10 | 28°33 | 2°44 | 11°51 | 29°46 | 29°14 | 11°28 | 12°20 | 3°43 |
| T 24 | 0 12 42 | 1°15'02 | 1°19 | 0°42 | 9° 8 | 3°11 | 11°56 | 29°49 | 29°15 | 11°28 | 12°20 | 3°43 |
| F 25 | 0 16 39 | 2°14'04 | 2°16 | 4°15 | 1°44 | 3°38 | 12° 1 | 29°51 | 29°15 | 11°28 | 12°20 | 3°44 |
| S 26 | 0 20 36 | 3°13'07 | 3°13 | 8°28 | 3°19 | 4° 4 | 12° 7 | 29°53 | 29°16 | 11°29 | 12°20 | 3°45 |
| S 27 | 0 24 32 | 4°12'12 | 4°10 | 12°49 | 4°55 | 4°31 | 12°12 | 29°56 | 29°17 | 11°29 | 12°20 | 3°45 |
| M28 | 0 28 29 | 5°11'19 | 5° 8 | 17°18 | 6°31 | 4°58 | 12°18 | 29°58 | 29°18 | 11°29 | 12°20 | 3°46 |
| T 29 | 0 32 25 | 6°10'29 | 6° 5 | 21°56 | 8° 6 | 5°24 | 12°23 | 0° 0 | 29°18 | 11°30 | 12°20 | 3°47 |
| W30 | 0 36 22 | 7°9'40 | 7°9 | 26°42 | 9°42 | 5°51 | 12°28 | 0° 2 | 29°19 | 11°30 | 12°21 | 3°47 |

Delta T = 92.39 sec.

Greg. Calendar

OCTOBER 1620 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♁ | ♂ | ♄ | ♃ | ♅ | ♁ | ♆ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|
| T 1 | 0 40 18 | 8°9'53 | 8°9 | 1°37 | 11°17 | 6°18 | 12°34 | 0° 5 | 29°20 | 11°30 | 12°21 | 3°48 |
| F 2 | 0 44 15 | 9° 8'08 | 8°59 | 6°41 | 12°53 | 6°44 | 12°39 | 0° 7 | 29°21 | 11°31 | 12°21 | 3°49 |
| S 3 | 0 48 11 | 10° 7'25 | 9°58 | 11°55 | 14°29 | 7°11 | 12°45 | 0° 9 | 29°21 | 11°31 | 12°21 | 3°50 |
| S 4 | 0 52 8 | 11° 6'44 | 10°58 | 17°17 | 16° 5 | 7°37 | 12°50 | 0°11 | 29°22 | 11°31 | 12°21 | 3°50 |
| M 5 | 0 56 5 | 12° 6'04 | 11°57 | 22°48 | 17°40 | 8° 4 | 12°55 | 0°14 | 29°23 | 11°32 | 12°21 | 3°51 |
| T 6 | 1 0 1 | 13° 5'26 | 12°57 | 28°28 | 19°16 | 8°31 | 13° 1 | 0°16 | 29°24 | 11°32 | 12°22 | 3°52 |
| W 7 | 1 3 58 | 14° 4'50 | 13°58 | 4°16 | 20°52 | 8°57 | 13° 6 | 0°18 | 29°24 | 11°33 | 12°22 | 3°52 |
| T 8 | 1 7 54 | 15° 4'16 | 14°58 | 10°12 | 22°28 | 9°24 | 13°12 | 0°20 | 29°25 | 11°33 | 12°22 | 3°53 |
| F 9 | 1 11 51 | 16° 3'43 | 15°59 | 16°15 | 24° 4 | 9°50 | 13°17 | 0°23 | 29°26 | 11°33 | 12°22 | 3°54 |
| S 10 | 1 15 47 | 17° 3'13 | 17° 0 | 22°23 | 25°39 | 10°17 | 13°22 | 0°25 | 29°27 | 11°34 | 12°22 | 3°54 |
| S 11 | 1 19 44 | 18° 2'44 | 18° 2 | 28°36 | 27°15 | 10°43 | 13°28 | 0°27 | 29°27 | 11°34 | 12°22 | 3°55 |
| M12 | 1 23 40 | 19° 2'17 | 19° 3 | 4°53 | 28°51 | 11°10 | 13°33 | 0°29 | 29°28 | 11°34 | 12°22 | 3°56 |
| T 13 | 1 27 37 | 20° 1'53 | 20° 4 | 11°11 | 0°27 | 11°36 | 13°39 | 0°32 | 29°29 | 11°35 | 12°23 | 3°56 |
| W14 | 1 31 34 | 21° 1'31 | 21° 6 | 17°30 | 2° 3 | 12° 3 | 13°44 | 0°34 | 29°30 | 11°35 | 12°23 | 3°57 |
| T 15 | 1 35 30 | 22° 1'11 | 22° 7 | 23°49 | 3°39 | 12°29 | 13°49 | 0°36 | 29°30 | 11°35 | 12°23 | 3°58 |
| F 16 | 1 39 27 | 23° 0'53 | 23° 8 | 0° 4 | 5°15 | 12°56 | 13°55 | 0°38 | 29°31 | 11°36 | 12°23 | 3°59 |
| S 17 | 1 43 23 | 24° 0'37 | 24° 9 | 6°16 | 6°51 | 13°22 | 14° 0 | 0°41 | 29°32 | 11°36 | 12°23 | 3°59 |
| S 18 | 1 47 20 | 25° 0'24 | 25° 9 | 12°23 | 8°28 | 13°48 | 14° 6 | 0°43 | 29°33 | 11°36 | 12°23 | 4° 0 |
| M19 | 1 51 16 | 26° 0'13 | 26° 9 | 18°23 | 10° 4 | 14°15 | 14°11 | 0°45 | 29°33 | 11°37 | 12°24 | 4° 1 |
| T 20 | 1 55 13 | 27° 0'04 | 27° 8 | 24°16 | 11°40 | 14°41 | 14°16 | 0°47 | 29°34 | 11°37 | 12°24 | 4° 1 |
| W21 | 1 59 9 | 27°59'58 | 28° 7 | 0° 1 | 13°16 | 15° 8 | 14°22 | 0°50 | 29°35 | 11°38 | 12°24 | 4° 2 |
| T 22 | 2 3 6 | 28°59'54 | 29° 6 | 5°37 | 14°52 | 15°34 | 14°27 | 0°52 | 29°36 | 11°38 | 12°24 | 4° 3 |
| F 23 | 2 7 3 | 29°59'51 | 0° 5 | 11° 3 | 16°29 | 16° 0 | 14°33 | 0°54 | 29°37 | 11°38 | 12°24 | 4° 3 |
| S 24 | 2 10 59 | 0°59'51 | 1° 3 | 16°20 | 18° 5 | 16°27 | 14°38 | 0°56 | 29°37 | 11°39 | 12°24 | 4° 4 |
| S 25 | 2 14 56 | 1°59'53 | 2° 1 | 21°28 | 19°41 | 16°53 | 14°43 | 0°59 | 29°38 | 11°39 | 12°24 | 4° 5 |
| M26 | 2 18 52 | 2°59'57 | 2°59 | 26°25 | 21°18 | 17°19 | 14°49 | 1° 1 | 29°39 | 11°39 | 12°25 | 4° 6 |
| T 27 | 2 22 49 | 4° 0'03 | 3°57 | 1°14 | 22°54 | 17°46 | 14°54 | 1° 3 | 29°40 | 11°40 | 12°25 | 4° 6 |
| W28 | 2 26 45 | 5° 0'11 | 4°56 | 5°53 | 24°30 | 18°12 | 15° 0 | 1° 6 | 29°40 | 11°40 | 12°25 | 4° 7 |
| T 29 | 2 30 42 | 6° 0'20 | 5°54 | 10°23 | 26° 7 | 18°38 | 15° 5 | 1° 8 | 29°41 | 11°40 | 12°25 | 4° 8 |
| F 30 | 2 34 38 | 7° 0'31 | 6°53 | 14°44 | 27°43 | 19° 5 | 15°10 | 1°10 | 29°42 | 11°41 | 12°25 | 4° 8 |
| S 31 | 2 38 35 | 8° 0'44 | 7°52 | 18°57 | 29°20 | 19°31 | 15°16 | 1°12 | 29°43 | 11°41 | 12°25 | 4° 9 |

Delta T = 92.27 sec.

Greg. Calendar

created from Swiss Ephemeris, Copyright Astrodienst AG [13.11.2015]

SWISS EPHEMERIS for the year 1620
heliocentric

NOVEMBER 1620 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|---------|----------|--------|-------|--------|-------|-------|------|-------|-------|-------|------|
| S 1 | 2 42 32 | 9♃ 0'58 | 8♃52 | 23♎ 3 | 0♏II56 | 19♏57 | 15♃21 | 1♁15 | 29♁43 | 11♁41 | 12♃26 | 4♃10 |
| M 2 | 2 46 28 | 10° 1'14 | 9°52 | 27° 1 | 2°33 | 20°23 | 15°27 | 1°17 | 29°44 | 11°42 | 12°26 | 4°10 |
| T 3 | 2 50 25 | 11° 1'31 | 10°52 | 0♏52 | 4° 9 | 20°50 | 15°32 | 1°19 | 29°45 | 11°42 | 12°26 | 4°11 |
| W 4 | 2 54 21 | 12° 1'50 | 11°53 | 4°37 | 5°46 | 21°16 | 15°37 | 1°21 | 29°46 | 11°42 | 12°26 | 4°12 |
| T 5 | 2 58 18 | 13° 2'10 | 12°54 | 8°15 | 7°23 | 21°42 | 15°43 | 1°24 | 29°46 | 11°43 | 12°26 | 4°12 |
| F 6 | 3 2 14 | 14° 2'32 | 13°56 | 11°48 | 8°59 | 22° 9 | 15°48 | 1°26 | 29°47 | 11°43 | 12°26 | 4°13 |
| S 7 | 3 6 11 | 15° 2'55 | 14°57 | 15°16 | 10°36 | 22°35 | 15°54 | 1°28 | 29°48 | 11°44 | 12°27 | 4°14 |
| S 8 | 3 10 7 | 16° 3'19 | 15°59 | 18°38 | 12°13 | 23° 1 | 15°59 | 1°30 | 29°49 | 11°44 | 12°27 | 4°15 |
| M 9 | 3 14 4 | 17° 3'45 | 17° 2 | 21°56 | 13°50 | 23°27 | 16° 4 | 1°33 | 29°49 | 11°44 | 12°27 | 4°15 |
| T 10 | 3 18 0 | 18° 4'13 | 18° 4 | 25°10 | 15°26 | 23°54 | 16°10 | 1°35 | 29°50 | 11°45 | 12°27 | 4°16 |
| W 11 | 3 21 57 | 19° 4'42 | 19° 6 | 28°20 | 17° 3 | 24°20 | 16°15 | 1°37 | 29°51 | 11°45 | 12°27 | 4°17 |
| T 12 | 3 25 54 | 20° 5'13 | 20° 9 | 1♎27 | 18°40 | 24°46 | 16°20 | 1°39 | 29°52 | 11°45 | 12°27 | 4°17 |
| F 13 | 3 29 50 | 21° 5'46 | 21°11 | 4°30 | 20°17 | 25°12 | 16°26 | 1°42 | 29°52 | 11°46 | 12°27 | 4°18 |
| S 14 | 3 33 47 | 22° 6'20 | 22°13 | 7°31 | 21°54 | 25°38 | 16°31 | 1°44 | 29°53 | 11°46 | 12°28 | 4°19 |
| S 15 | 3 37 43 | 23° 6'56 | 23°15 | 10°28 | 23°31 | 26° 5 | 16°37 | 1°46 | 29°54 | 11°46 | 12°28 | 4°19 |
| M 16 | 3 41 40 | 24° 7'34 | 24°16 | 13°24 | 25° 8 | 26°31 | 16°42 | 1°48 | 29°55 | 11°47 | 12°28 | 4°20 |
| T 17 | 3 45 36 | 25° 8'14 | 25°17 | 16°17 | 26°45 | 26°57 | 16°47 | 1°51 | 29°55 | 11°47 | 12°28 | 4°21 |
| W 18 | 3 49 33 | 26° 8'55 | 26°17 | 19° 9 | 28°22 | 27°23 | 16°53 | 1°53 | 29°56 | 11°47 | 12°28 | 4°22 |
| T 19 | 3 53 29 | 27° 9'38 | 27°17 | 21°58 | 29°59 | 27°50 | 16°58 | 1°55 | 29°57 | 11°48 | 12°28 | 4°22 |
| F 20 | 3 57 26 | 28°10'22 | 28°17 | 24°47 | 1♁36 | 28°16 | 17° 4 | 1°57 | 29°58 | 11°48 | 12°29 | 4°23 |
| S 21 | 4 1 23 | 29°11'08 | 29°17 | 27°34 | 3°13 | 28°42 | 17° 9 | 2° 0 | 29°58 | 11°49 | 12°29 | 4°24 |
| S 22 | 4 5 19 | 0♏II1'56 | 0♏II16 | 0♏20 | 4°50 | 29° 8 | 17°14 | 2° 2 | 29°59 | 11°49 | 12°29 | 4°24 |
| M 23 | 4 9 16 | 1°12'45 | 1°15 | 3° 6 | 6°27 | 29°34 | 17°20 | 2° 4 | 29°59 | 11°49 | 12°29 | 4°25 |
| T 24 | 4 13 12 | 2°13'35 | 2°14 | 5°51 | 8° 5 | 0♎1 | 17°25 | 2° 6 | 0♏1 | 11°50 | 12°29 | 4°26 |
| W 25 | 4 17 9 | 3°14'27 | 3°13 | 8°36 | 9°42 | 0°27 | 17°30 | 2° 9 | 0° 1 | 11°50 | 12°29 | 4°26 |
| T 26 | 4 21 5 | 4°15'20 | 4°12 | 11°20 | 11°19 | 0°53 | 17°36 | 2°11 | 0° 2 | 11°50 | 12°29 | 4°27 |
| F 27 | 4 25 2 | 5°16'13 | 5°11 | 14° 5 | 12°56 | 1°19 | 17°41 | 2°13 | 0° 3 | 11°51 | 12°30 | 4°28 |
| S 28 | 4 28 59 | 6°17'08 | 6°11 | 16°50 | 14°34 | 1°46 | 17°47 | 2°16 | 0° 4 | 11°51 | 12°30 | 4°28 |
| S 29 | 4 32 55 | 7°18'04 | 7°10 | 19°36 | 16°11 | 2°12 | 17°52 | 2°18 | 0° 4 | 11°51 | 12°30 | 4°29 |
| M 30 | 4 36 52 | 8°19'00 | 8°11 | 22°22 | 17♁48 | 2♎38 | 17♁57 | 2♁20 | 0♏5 | 11♁52 | 12♃30 | 4♃30 |

Delta T = 92.15 sec.

Greg. Calendar

DECEMBER 1620 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|---------|-----------|--------|-------|-------|-------|-------|------|------|-------|-------|------|
| T 1 | 4 40 48 | 9♏II19'58 | 9♏II11 | 25♏ 9 | 19♁26 | 3♎ 4 | 18♃ 3 | 2♁22 | 0♏6 | 11♁52 | 12♃30 | 4♃31 |
| W 2 | 4 44 45 | 10°20'55 | 10°12 | 27°57 | 21° 3 | 3°30 | 18° 8 | 2°25 | 0° 7 | 11°52 | 12°30 | 4°31 |
| T 3 | 4 48 41 | 11°21'54 | 11°13 | 0♏47 | 22°40 | 3°57 | 18°13 | 2°27 | 0° 7 | 11°53 | 12°31 | 4°32 |
| F 4 | 4 52 38 | 12°22'53 | 12°14 | 3°38 | 24°18 | 4°23 | 18°19 | 2°29 | 0° 8 | 11°53 | 12°31 | 4°33 |
| S 5 | 4 56 34 | 13°23'53 | 13°16 | 6°31 | 25°55 | 4°49 | 18°24 | 2°31 | 0° 9 | 11°53 | 12°31 | 4°33 |
| S 6 | 5 0 31 | 14°24'53 | 14°18 | 9°26 | 27°33 | 5°15 | 18°30 | 2°34 | 0°10 | 11°54 | 12°31 | 4°34 |
| M 7 | 5 4 28 | 15°25'54 | 15°21 | 12°23 | 29°10 | 5°42 | 18°35 | 2°36 | 0°11 | 11°54 | 12°31 | 4°35 |
| T 8 | 5 8 24 | 16°26'56 | 16°24 | 15°23 | 0♏48 | 6° 8 | 18°40 | 2°38 | 0°11 | 11°55 | 12°31 | 4°35 |
| W 9 | 5 12 21 | 17°27'58 | 17°27 | 18°25 | 2°25 | 6°34 | 18°46 | 2°40 | 0°12 | 11°55 | 12°31 | 4°36 |
| T 10 | 5 16 17 | 18°29'02 | 18°30 | 21°31 | 4° 3 | 7° 0 | 18°51 | 2°43 | 0°13 | 11°55 | 12°32 | 4°37 |
| F 11 | 5 20 14 | 19°30'05 | 19°33 | 24°40 | 5°40 | 7°27 | 18°56 | 2°45 | 0°14 | 11°56 | 12°32 | 4°37 |
| S 12 | 5 24 10 | 20°31'10 | 20°35 | 27°52 | 7°18 | 7°53 | 19° 2 | 2°47 | 0°14 | 11°56 | 12°32 | 4°38 |
| S 13 | 5 28 7 | 21°32'15 | 21°38 | 1♁ 8 | 8°55 | 8°19 | 19° 7 | 2°49 | 0°15 | 11°56 | 12°32 | 4°39 |
| M 14 | 5 32 3 | 22°33'21 | 22°41 | 4°28 | 10°33 | 8°46 | 19°13 | 2°52 | 0°16 | 11°57 | 12°32 | 4°40 |
| T 15 | 5 36 0 | 23°34'27 | 23°43 | 7°53 | 12°10 | 9°12 | 19°18 | 2°54 | 0°17 | 11°57 | 12°32 | 4°40 |
| W 16 | 5 39 57 | 24°35'35 | 24°44 | 11°23 | 13°48 | 9°38 | 19°23 | 2°56 | 0°17 | 11°57 | 12°33 | 4°41 |
| T 17 | 5 43 53 | 25°36'43 | 25°45 | 14°58 | 15°25 | 10° 4 | 19°29 | 2°58 | 0°18 | 11°58 | 12°33 | 4°42 |
| F 18 | 5 47 50 | 26°37'52 | 26°46 | 18°38 | 17° 3 | 10°31 | 19°34 | 3° 1 | 0°19 | 11°58 | 12°33 | 4°42 |
| S 19 | 5 51 46 | 27°39'01 | 27°47 | 22°25 | 18°40 | 10°57 | 19°39 | 3° 3 | 0°20 | 11°58 | 12°33 | 4°43 |
| S 20 | 5 55 43 | 28°40'12 | 28°47 | 26°17 | 20°18 | 11°23 | 19°45 | 3° 5 | 0°20 | 11°59 | 12°33 | 4°44 |
| M 21 | 5 59 39 | 29°41'22 | 29°46 | 0♏16 | 21°56 | 11°50 | 19°50 | 3° 7 | 0°21 | 11°59 | 12°33 | 4°44 |
| T 22 | 6 3 36 | 0♏42'34 | 0♏46 | 4°23 | 23°33 | 12°16 | 19°56 | 3°10 | 0°22 | 12° 0 | 12°34 | 4°45 |
| W 23 | 6 7 32 | 1°43'45 | 1°45 | 8°36 | 25°11 | 12°43 | 20° 1 | 3°12 | 0°23 | 12° 0 | 12°34 | 4°46 |
| T 24 | 6 11 29 | 2°44'57 | 2°45 | 12°57 | 26°48 | 13° 9 | 20° 6 | 3°14 | 0°23 | 12° 0 | 12°34 | 4°46 |
| F 25 | 6 15 26 | 3°46'09 | 3°44 | 17°27 | 28°26 | 13°35 | 20°12 | 3°17 | 0°24 | 12° 1 | 12°34 | 4°47 |
| S 26 | 6 19 22 | 4°47'20 | 4°44 | 22° 5 | 0♎ 3 | 14° 2 | 20°17 | 3°19 | 0°25 | 12° 1 | 12°34 | 4°48 |
| S 27 | 6 23 19 | 5°48'32 | 5°43 | 26°51 | 1°41 | 14°28 | 20°22 | 3°21 | 0°26 | 12° 1 | 12°34 | 4°49 |
| M 28 | 6 27 15 | 6°49'44 | 6°43 | 1°47 | 3°18 | 14°54 | 20°28 | 3°23 | 0°26 | 12° 2 | 12°34 | 4°49 |
| T 29 | 6 31 12 | 7°50'55 | 7°43 | 6°51 | 4°56 | 15°21 | 20°33 | 3°26 | 0°27 | 12° 2 | 12°35 | 4°50 |
| W 30 | 6 35 8 | 8°52'06 | 8°43 | 12° 5 | 6°33 | 15°47 | 20°38 | 3°28 | 0°28 | 12° 2 | 12°35 | 4°51 |
| T 31 | 6 39 5 | 9♁53'17 | 9♁44 | 17°47 | 8♎11 | 16♎14 | 20♃44 | 3♁30 | 0♏29 | 12♁ 3 | 12♃35 | 4♃51 |

Delta T = 92.04 sec.

Greg. Calendar

created from Swiss Ephemeris, Copyright Astrodienst AG [13.11.2015]