

SWISS EPHEMERIS for the year 1017

JANUARY 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
|------|---------|----------|-------|-------|-------|--------|-------|-------|--------|------|-------|--------|-------|-------|-------|---|---|
| T 1 | 7 3 56 | 16♁40'51 | 15♁7 | 24♁45 | 27♁6 | 23°R14 | 6°R47 | 24♁19 | 10°R48 | 1♁52 | 15♁50 | 28°R41 | 27♁6 | 15♁29 | 7♁32 | | |
| W 2 | 7 7 53 | 17°41'57 | 27°52 | 25° 4 | 28°21 | 23♁4 | 6♁42 | 24°25 | 10♁47 | 1°54 | 15°52 | 28♁32 | 27° 3 | 15°36 | 7°34 | | |
| T 3 | 7 11 50 | 18°43'01 | 10♁51 | 25°29 | 29°36 | 22°53 | 6°38 | 24°32 | 10°47 | 1°56 | 15°54 | 28°23 | 26°59 | 15°42 | 7°36 | | |
| F 4 | 7 15 46 | 19°44'05 | 24° 4 | 26° 1 | 0♁52 | 22°41 | 6°34 | 24°39 | 10°46 | 1°58 | 15°56 | 28°13 | 26°56 | 15°49 | 7°37 | | |
| S 5 | 7 19 43 | 20°45'08 | 7♁28 | 26°37 | 2° 7 | 22°28 | 6°30 | 24°45 | 10°46 | 2° 0 | 15°58 | 28° 5 | 26°53 | 15°56 | 7°38 | | |
| S 6 | 7 23 39 | 21°46'09 | 21° 3 | 27°19 | 3°22 | 22°15 | 6°26 | 24°52 | 10°45 | 2° 3 | 16° 0 | 27°59 | 26°50 | 16° 2 | 7°39 | | |
| M 7 | 7 27 36 | 22°47'09 | 4♁48 | 28° 5 | 4°37 | 22° 1 | 6°22 | 24°58 | 10°45 | 2° 5 | 16° 2 | 27°55 | 26°47 | 16° 9 | 7°40 | | |
| T 8 | 7 31 32 | 23°48'08 | 18°42 | 28°54 | 5°52 | 21°46 | 6°19 | 25° 5 | 10°45 | 2° 7 | 16° 3 | 27°D53 | 26°44 | 16°16 | 7°41 | | |
| W 9 | 7 35 29 | 24°49'05 | 2♁44 | 29°48 | 7° 7 | 21°30 | 6°16 | 25°11 | 10°44 | 2° 9 | 16° 5 | 27°53 | 26°40 | 16°22 | 7°42 | | |
| T 10 | 7 39 25 | 25°50'01 | 16°55 | 0♁44 | 8°22 | 21°14 | 6°13 | 25°18 | 10°44 | 2°12 | 16° 7 | 27°54 | 26°37 | 16°29 | 7°43 | | |
| F 11 | 7 43 22 | 26°50'56 | 1♁12 | 1°44 | 9°37 | 20°57 | 6°10 | 25°24 | 10°44 | 2°14 | 16° 9 | 27°R54 | 26°34 | 16°36 | 7°43 | | |
| S 12 | 7 47 19 | 27°51'50 | 15°33 | 2°47 | 10°52 | 20°39 | 6° 7 | 25°31 | 10°44 | 2°16 | 16°11 | 27°53 | 26°31 | 16°42 | 7°44 | | |
| S 13 | 7 51 15 | 28°52'42 | 29°56 | 3°51 | 12° 7 | 20°21 | 6° 5 | 25°37 | 10°D44 | 2°19 | 16°12 | 27°49 | 26°28 | 16°49 | 7°44 | | |
| M 14 | 7 55 12 | 29°53'33 | 14♁15 | 4°59 | 13°22 | 20° 2 | 6° 3 | 25°43 | 10°44 | 2°21 | 16°14 | 27°43 | 26°24 | 16°56 | 7°45 | | |
| T 15 | 7 59 8 | 0♁54'22 | 28°24 | 6° 8 | 14°37 | 19°43 | 6° 0 | 25°49 | 10°44 | 2°23 | 16°16 | 27°34 | 26°21 | 17° 2 | 7°R45 | | |
| W 16 | 8 3 5 | 1°55'10 | 12♁19 | 7°19 | 15°52 | 19°22 | 5°59 | 25°56 | 10°44 | 2°25 | 16°18 | 27°23 | 26°18 | 17° 9 | 7°45 | | |
| T 17 | 8 7 1 | 2°55'57 | 25°55 | 8°32 | 17° 7 | 19° 2 | 5°57 | 26° 2 | 10°45 | 2°28 | 16°19 | 27°12 | 26°15 | 17°15 | 7°44 | | |
| F 18 | 8 10 58 | 3°56'43 | 9♁10 | 9°47 | 18°22 | 18°41 | 5°55 | 26° 8 | 10°45 | 2°30 | 16°21 | 27° 1 | 26°12 | 17°22 | 7°44 | | |
| S 19 | 8 14 54 | 4°57'27 | 22° 2 | 11° 3 | 19°37 | 18°19 | 5°54 | 26°14 | 10°45 | 2°32 | 16°23 | 26°51 | 26° 9 | 17°29 | 7°44 | | |
| S 20 | 8 18 51 | 5°58'11 | 4♁34 | 12°21 | 20°52 | 17°57 | 5°53 | 26°20 | 10°46 | 2°35 | 16°24 | 26°45 | 26° 5 | 17°35 | 7°43 | | |
| M 21 | 8 22 48 | 6°58'53 | 16°47 | 13°40 | 22° 7 | 17°35 | 5°52 | 26°26 | 10°46 | 2°37 | 16°26 | 26°40 | 26° 2 | 17°42 | 7°43 | | |
| T 22 | 8 26 44 | 7°59'34 | 28°46 | 15° 0 | 23°22 | 17°12 | 5°52 | 26°32 | 10°46 | 2°39 | 16°27 | 26°38 | 25°59 | 17°49 | 7°42 | | |
| W 23 | 8 30 41 | 9° 0'13 | 10♁37 | 16°22 | 24°37 | 16°49 | 5°51 | 26°38 | 10°47 | 2°41 | 16°29 | 26°D38 | 25°56 | 17°55 | 7°41 | | |
| T 24 | 8 34 37 | 10° 0'52 | 22°24 | 17°45 | 25°52 | 16°26 | 5°51 | 26°44 | 10°48 | 2°44 | 16°30 | 26°R38 | 25°53 | 18° 2 | 7°40 | | |
| F 25 | 8 38 34 | 11° 1'29 | 4♁14 | 19° 9 | 27° 7 | 16° 3 | 5°D51 | 26°49 | 10°48 | 2°46 | 16°32 | 26°38 | 25°50 | 18° 9 | 7°39 | | |
| S 26 | 8 42 30 | 12° 2'05 | 16°11 | 20°34 | 28°22 | 15°39 | 5°51 | 26°55 | 10°49 | 2°48 | 16°33 | 26°36 | 25°46 | 18°15 | 7°38 | | |
| S 27 | 8 46 27 | 13° 2'40 | 28°21 | 22° 1 | 29°37 | 15°15 | 5°51 | 27° 1 | 10°50 | 2°50 | 16°35 | 26°32 | 25°43 | 18°22 | 7°37 | | |
| M 28 | 8 50 23 | 14° 3'14 | 10♁47 | 23°28 | 0♁52 | 14°51 | 5°52 | 27° 6 | 10°50 | 2°53 | 16°36 | 26°25 | 25°40 | 18°29 | 7°35 | | |
| T 29 | 8 54 20 | 15° 3'46 | 23°31 | 24°56 | 2° 7 | 14°27 | 5°53 | 27°12 | 10°51 | 2°55 | 16°37 | 26°16 | 25°37 | 18°35 | 7°34 | | |
| W 30 | 8 58 17 | 16° 4'16 | 6♁35 | 26°26 | 3°22 | 14° 3 | 5°54 | 27°17 | 10°52 | 2°57 | 16°39 | 26° 4 | 25°34 | 18°42 | 7°32 | | |
| T 31 | 9 2 13 | 17° 4'45 | 19°57 | 27♁56 | 4♁36 | 13♁39 | 5♁55 | 27♁23 | 10♁53 | 2°59 | 16°40 | 25♁51 | 25♁30 | 18♁49 | 7♁31 | | |

Delta T = 24m53s

Julian Calendar 1 Jan. 1017 == Greg. Calendar 7 Jan. 1017

FEBRUARY 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
|------|----------|----------|-------|-------|-------|--------|------|-------|-------|------|-------|--------|-------|-------|-------|---|---|
| F 1 | 9 6 10 | 18♁5'12 | 3♁35 | 29♁28 | 5♁51 | 13°R16 | 5♁56 | 27♁28 | 10♁54 | 3♁2 | 16°41 | 25°R38 | 25♁27 | 18♁55 | 7°R29 | | |
| S 2 | 9 10 6 | 19° 5'37 | 17°26 | 1♁0 | 7° 6 | 12♁52 | 5°58 | 27°33 | 10°55 | 3° 4 | 16°43 | 25♁26 | 25°24 | 19° 2 | 7♁27 | | |
| S 3 | 9 14 3 | 20° 6'00 | 1♁25 | 2°33 | 8°21 | 12°29 | 6° 0 | 27°38 | 10°56 | 3° 6 | 16°44 | 25°17 | 25°21 | 19° 8 | 7°25 | | |
| M 4 | 9 17 59 | 21° 6'22 | 15°30 | 4° 8 | 9°36 | 12° 5 | 6° 1 | 27°44 | 10°57 | 3° 8 | 16°45 | 25°11 | 25°18 | 19°15 | 7°23 | | |
| T 5 | 9 21 56 | 22° 6'41 | 29°36 | 5°43 | 10°51 | 11°42 | 6° 4 | 27°49 | 10°58 | 3°10 | 16°46 | 25° 7 | 25°15 | 19°22 | 7°20 | | |
| W 6 | 9 25 52 | 23° 6'58 | 13♁43 | 7°20 | 12° 6 | 11°20 | 6° 6 | 27°54 | 11° 0 | 3°13 | 16°47 | 25° 6 | 25°11 | 19°28 | 7°18 | | |
| T 7 | 9 29 49 | 24° 7'14 | 27°48 | 8°57 | 13°21 | 10°58 | 6° 8 | 27°59 | 11° 1 | 3°15 | 16°49 | 25° 6 | 25° 8 | 19°35 | 7°16 | | |
| F 8 | 9 33 46 | 25° 7'27 | 11♁51 | 10°35 | 14°36 | 10°36 | 6°11 | 28° 4 | 11° 2 | 3°17 | 16°50 | 25° 6 | 25° 5 | 19°42 | 7°13 | | |
| S 9 | 9 37 42 | 26° 7'38 | 25°52 | 12°15 | 15°50 | 10°14 | 6°14 | 28° 8 | 11° 4 | 3°19 | 16°51 | 25° 4 | 25° 2 | 19°48 | 7°10 | | |
| S 10 | 9 41 39 | 27° 7'47 | 9♁49 | 13°55 | 17° 5 | 9°54 | 6°17 | 28°13 | 11° 5 | 3°21 | 16°52 | 24°59 | 24°59 | 19°55 | 7° 8 | | |
| M 11 | 9 45 35 | 28° 7'54 | 23°40 | 15°37 | 18°20 | 9°33 | 6°21 | 28°18 | 11° 7 | 3°23 | 16°53 | 24°51 | 24°56 | 20° 2 | 7° 5 | | |
| T 12 | 9 49 32 | 29° 7'58 | 7♁23 | 17°19 | 19°35 | 9°13 | 6°24 | 28°22 | 11° 8 | 3°25 | 16°54 | 24°41 | 24°52 | 20° 8 | 7° 2 | | |
| W 13 | 9 53 28 | 0♁8'01 | 20°55 | 19° 3 | 20°50 | 8°54 | 6°28 | 28°27 | 11°10 | 3°27 | 16°55 | 24°29 | 24°49 | 20°15 | 6°59 | | |
| T 14 | 9 57 25 | 1° 8'01 | 4♁12 | 20°48 | 22° 4 | 8°36 | 6°31 | 28°31 | 11°11 | 3°30 | 16°56 | 24°15 | 24°46 | 20°22 | 6°56 | | |
| F 15 | 10 1 21 | 2° 8'00 | 17°13 | 22°34 | 23°19 | 8°17 | 6°36 | 28°36 | 11°13 | 3°32 | 16°57 | 24° 3 | 24°43 | 20°28 | 6°53 | | |
| S 16 | 10 5 18 | 3° 7'57 | 29°57 | 24°21 | 24°34 | 8° 0 | 6°40 | 28°40 | 11°15 | 3°34 | 16°57 | 23°51 | 24°40 | 20°35 | 6°49 | | |
| S 17 | 10 9 15 | 4° 7'52 | 12♁23 | 26° 9 | 25°49 | 7°43 | 6°44 | 28°44 | 11°17 | 3°36 | 16°58 | 23°43 | 24°36 | 20°41 | 6°46 | | |
| M 18 | 10 13 11 | 5° 7'45 | 24°34 | 27°58 | 27° 3 | 7°27 | 6°49 | 28°48 | 11°18 | 3°38 | 16°59 | 23°37 | 24°33 | 20°48 | 6°43 | | |
| T 19 | 10 17 8 | 6° 7'36 | 6♁33 | 29°48 | 28°18 | 7°12 | 6°53 | 28°52 | 11°20 | 3°40 | 17° 0 | 23°33 | 24°30 | 20°55 | 6°39 | | |
| W 20 | 10 21 4 | 7° 7'26 | 18°24 | 1♁40 | 29°33 | 6°57 | 6°58 | 28°56 | 11°22 | 3°42 | 17° 0 | 23°D32 | 24°27 | 21° 1 | 6°36 | | |
| T 21 | 10 25 1 | 8° 7'13 | 0♁12 | 3°33 | 0♁47 | 6°43 | 7° 3 | 29° 0 | 11°24 | 3°44 | 17° 1 | 23°32 | 24°24 | 21° 8 | 6°32 | | |
| F 22 | 10 28 57 | 9° 7'00 | 12° 2 | 5°26 | 2° 2 | 6°30 | 7° 9 | 29° 4 | 11°26 | 3°46 | 17° 2 | 23°R32 | 24°21 | 21°15 | 6°28 | | |
| S 23 | 10 32 54 | 10° 6'44 | 24° 0 | 7°21 | 3°17 | 6°18 | 7°14 | 29° 8 | 11°28 | 3°48 | 17° 2 | 23°31 | 24°17 | 21°21 | 6°24 | | |
| S 24 | 10 36 50 | 11° 6'27 | 6♁11 | 9°17 | 4°31 | 6° 6 | 7°19 | 29°12 | 11°30 | 3°49 | 17° 3 | 23°29 | 24°14 | 21°28 | 6°21 | | |
| M 25 | 10 40 47 | 12° 6'07 | 18°40 | 11°14 | 5°46 | 5°55 | 7°25 | 29°15 | 11°32 | 3°51 | 17° 4 | 23°23 | 24°11 | 21°35 | 6°17 | | |
| T 26 | 10 44 44 | 13° 5'46 | 1♁30 | 13°12 | 7° 1 | 5°45 | 7°31 | 29°19 | 11°34 | 3°53 | 17° 4 | 23°16 | 24° 8 | 21°41 | 6°13 | | |
| W 27 | 10 48 40 | 14° 5'24 | 14°44 | 15°11 | 8°15 | 5°36 | 7°37 | 29°22 | 11°37 | 3°55 | 17° 5 | 23° 6 | 24° 5 | 21°48 | 6° 9 | | |
| T 28 | 10 52 37 | 15♁4'59 | 28°22 | 17♁11 | 9♁30 | 5♁27 | 7♁43 | 29♁26 | 11♁39 | 3°57 | 17♁5 | 22♁55 | 24♁2 | 21♁55 | 6♁4 | | |

Delta T = 24m53s

Julian Calendar

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SWISS EPHEMERIS for the year 1017

MARCH 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|-----------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-------------------|
| F 1 | 10 56 33 | 16 X 4'32 | 12 X 21 | 19 X 11 | 10 X 45 | 5°R19 | 7 II 50 | 29 X 29 | 11 8 41 | 3 ∞ 59 | 17 X 6 | 22°R44 | 23 8 58 | 22 ∞ 1 | 6°R 0 |
| S 2 | 11 0 30 | 17° 4'03 | 26°36 | 21°12 | 11°59 | 5 Ω 13 | 7°56 | 29°32 | 11°43 | 4° 1 | 17° 6 | 22 8 34 | 23°55 | 22° 8 | 5 Ω 56 |
| S 3 | 11 4 26 | 18° 3'32 | 11 Y 2 | 23°13 | 13°14 | 5° 6 | 8° 3 | 29°35 | 11°46 | 4° 2 | 17° 6 | 22°26 | 23°52 | 22°15 | 5°52 |
| M 4 | 11 8 23 | 19° 2'58 | 25°33 | 25°15 | 14°28 | 5° 1 | 8°10 | 29°38 | 11°48 | 4° 4 | 17° 7 | 22°20 | 23°49 | 22°21 | 5°48 |
| T 5 | 11 12 19 | 20° 2'23 | 10 8 3 | 27°16 | 15°43 | 4°56 | 8°17 | 29°41 | 11°51 | 4° 6 | 17° 7 | 22°18 | 23°46 | 22°28 | 5°43 |
| W 6 | 11 16 16 | 21° 1'45 | 24°26 | 29°17 | 16°57 | 4°53 | 8°24 | 29°44 | 11°53 | 4° 8 | 17° 7 | 22°D17 | 23°42 | 22°34 | 5°39 |
| T 7 | 11 20 12 | 22° 1'05 | 8 II 41 | 1 Y 18 | 18°12 | 4°50 | 8°31 | 29°46 | 11°55 | 4° 9 | 17° 8 | 22°18 | 23°39 | 22°41 | 5°34 |
| F 8 | 11 24 9 | 23° 0'22 | 22°45 | 3°17 | 19°26 | 4°47 | 8°38 | 29°49 | 11°58 | 4°11 | 17° 8 | 22°R18 | 23°36 | 22°48 | 5°30 |
| S 9 | 11 28 6 | 23°59'37 | 6 Ω 38 | 5°16 | 20°41 | 4°46 | 8°46 | 29°52 | 12° 1 | 4°12 | 17° 8 | 22°17 | 23°33 | 22°54 | 5°25 |
| S 10 | 11 32 2 | 24°58'50 | 20°20 | 7°12 | 21°55 | 4°D45 | 8°54 | 29°54 | 12° 3 | 4°14 | 17° 8 | 22°14 | 23°30 | 23° 1 | 5°21 |
| M11 | 11 35 59 | 25°58'00 | 3 Ω 50 | 9° 7 | 23°10 | 4°45 | 9° 2 | 29°56 | 12° 6 | 4°16 | 17° 8 | 22° 9 | 23°27 | 23° 8 | 5°16 |
| T 12 | 11 39 55 | 26°57'08 | 17°10 | 10°59 | 24°24 | 4°46 | 9° 9 | 29°59 | 12° 8 | 4°17 | 17° 8 | 22° 2 | 23°23 | 23°14 | 5°12 |
| W13 | 11 43 52 | 27°56'14 | 0 ∞ 17 | 12°48 | 25°39 | 4°47 | 9°18 | 0 3 1 | 12°11 | 4°19 | 17° 8 | 21°53 | 23°20 | 23°21 | 5° 7 |
| T 14 | 11 47 48 | 28°55'17 | 13°11 | 14°34 | 26°53 | 4°50 | 9°26 | 0° 3 | 12°14 | 4°20 | 17°R 8 | 21°43 | 23°17 | 23°28 | 5° 2 |
| F 15 | 11 51 45 | 29°54'18 | 25°53 | 16°17 | 28° 7 | 4°53 | 9°34 | 0° 5 | 12°17 | 4°22 | 17° 8 | 21°34 | 23°14 | 23°34 | 4°58 |
| S 16 | 11 55 41 | 0 Y 53'17 | 8 Ω 21 | 17°55 | 29°22 | 4°56 | 9°43 | 0° 7 | 12°19 | 4°23 | 17° 8 | 21°26 | 23°11 | 23°41 | 4°53 |
| S 17 | 11 59 38 | 1°52'14 | 20°36 | 19°29 | 0 Y 36 | 5° 0 | 9°51 | 0° 8 | 12°22 | 4°25 | 17° 8 | 21°20 | 23° 7 | 23°48 | 4°49 |
| M18 | 12 3 35 | 2°51'09 | 2 ∞ 41 | 20°59 | 1°50 | 5° 5 | 10° 0 | 0°10 | 12°25 | 4°26 | 17° 8 | 21°15 | 23° 4 | 23°54 | 4°44 |
| T 19 | 12 7 31 | 3°50'02 | 14°36 | 22°24 | 3° 5 | 5°11 | 10° 9 | 0°12 | 12°28 | 4°27 | 17° 8 | 21°13 | 23° 1 | 24° 1 | 4°39 |
| W20 | 12 11 28 | 4°48'54 | 26°25 | 23°43 | 4°19 | 5°17 | 10°18 | 0°13 | 12°31 | 4°29 | 17° 8 | 21°D13 | 22°58 | 24° 7 | 4°34 |
| T 21 | 12 15 24 | 5°47'43 | 8 X 13 | 24°58 | 5°33 | 5°24 | 10°27 | 0°15 | 12°34 | 4°30 | 17° 8 | 21°14 | 22°55 | 24°14 | 4°30 |
| F 22 | 12 19 21 | 6°46'31 | 20° 3 | 26° 7 | 6°48 | 5°32 | 10°36 | 0°16 | 12°37 | 4°31 | 17° 7 | 21°16 | 22°52 | 24°21 | 4°25 |
| S 23 | 12 23 17 | 7°45'17 | 2 3 0 | 27°10 | 8° 2 | 5°40 | 10°45 | 0°17 | 12°40 | 4°33 | 17° 7 | 21°17 | 22°48 | 24°27 | 4°20 |
| S 24 | 12 27 14 | 8°44'01 | 14°10 | 28° 7 | 9°16 | 5°48 | 10°55 | 0°18 | 12°43 | 4°34 | 17° 7 | 21°R17 | 22°45 | 24°34 | 4°16 |
| M25 | 12 31 10 | 9°42'44 | 26°38 | 28°59 | 10°30 | 5°58 | 11° 4 | 0°19 | 12°46 | 4°35 | 17° 6 | 21°16 | 22°42 | 24°41 | 4°11 |
| T 26 | 12 35 7 | 10°41'24 | 9 ∞ 28 | 29°44 | 11°45 | 6° 8 | 11°14 | 0°20 | 12°49 | 4°36 | 17° 6 | 21°12 | 22°39 | 24°47 | 4° 7 |
| W27 | 12 39 4 | 11°40'03 | 22°44 | 0 8 24 | 12°59 | 6°18 | 11°24 | 0°21 | 12°52 | 4°38 | 17° 6 | 21° 8 | 22°36 | 24°54 | 4° 2 |
| T 28 | 12 43 0 | 12°38'40 | 6 X 26 | 0°57 | 14°13 | 6°29 | 11°34 | 0°22 | 12°55 | 4°39 | 17° 5 | 21° 2 | 22°33 | 25° 1 | 3°57 |
| F 29 | 12 46 57 | 13°37'16 | 20°33 | 1°24 | 15°27 | 6°41 | 11°44 | 0°22 | 12°58 | 4°40 | 17° 5 | 20°56 | 22°29 | 25° 7 | 3°53 |
| S 30 | 12 50 53 | 14°35'49 | 5 Y 2 | 1°46 | 16°41 | 6°53 | 11°54 | 0°23 | 13° 1 | 4°41 | 17° 4 | 20°50 | 22°26 | 25°14 | 3°48 |
| S 31 | 12 54 50 | 15 Y 34'21 | 19 Y 48 | 2 8 0 | 17 Y 55 | 7 Ω 5 | 12 II 4 | 0 3 23 | 13 8 5 | 4 ∞ 42 | 17 X 4 | 20 8 46 | 22 8 23 | 25 ∞ 21 | 3 Ω 44 |

Delta T = 24m53s Julian Calendar 1 March 1017 == Greg. Calendar 7 March 1017

APRIL 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|-----------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|
| M 1 | 12 58 46 | 16 Y 32'50 | 4 8 41 | 2 8 9 | 19 Y 10 | 7 Ω 19 | 12 II 14 | 0 3 23 | 13 8 8 | 4 ∞ 43 | 17°R 3 | 20°R44 | 22 8 20 | 25 ∞ 27 | 3°R39 |
| T 2 | 13 2 43 | 17°31'18 | 19°35 | 2°R12 | 20°24 | 7°32 | 12°24 | 0°24 | 13°11 | 4°44 | 17 X 3 | 20°D43 | 22°17 | 25°34 | 3 Ω 35 |
| W 3 | 13 6 39 | 18°29'44 | 4 II 21 | 2°10 | 21°38 | 7°47 | 12°35 | 0°24 | 13°14 | 4°45 | 17° 2 | 20 8 43 | 22°13 | 25°40 | 3°30 |
| T 4 | 13 10 36 | 19°28'07 | 18°54 | 2° 2 | 22°52 | 8° 1 | 12°45 | 0°R24 | 13°18 | 4°46 | 17° 2 | 20°44 | 22°10 | 25°47 | 3°26 |
| F 5 | 13 14 33 | 20°26'29 | 3 Ω 11 | 1°48 | 24° 6 | 8°16 | 12°56 | 0°24 | 13°21 | 4°47 | 17° 1 | 20°46 | 22° 7 | 25°54 | 3°22 |
| S 6 | 13 18 29 | 21°24'48 | 17° 9 | 1°30 | 25°20 | 8°32 | 13° 7 | 0°24 | 13°24 | 4°48 | 17° 0 | 20°R47 | 22° 4 | 26° 0 | 3°17 |
| S 7 | 13 22 26 | 22°23'05 | 0 Ω 48 | 1° 7 | 26°34 | 8°48 | 13°18 | 0°23 | 13°27 | 4°48 | 17° 0 | 20°47 | 22° 1 | 26° 7 | 3°13 |
| M 8 | 13 26 22 | 23°21'20 | 14° 9 | 0°40 | 27°48 | 9° 5 | 13°29 | 0°23 | 13°31 | 4°49 | 16°59 | 20°45 | 21°58 | 26°14 | 3° 9 |
| T 9 | 13 30 19 | 24°19'33 | 27°13 | 0°10 | 29° 2 | 9°22 | 13°40 | 0°23 | 13°34 | 4°50 | 16°58 | 20°42 | 21°54 | 26°20 | 3° 5 |
| W10 | 13 34 15 | 25°17'44 | 10 ∞ 2 | 29 Y 36 | 0 8 16 | 9°39 | 13°51 | 0°22 | 13°37 | 4°51 | 16°57 | 20°39 | 21°51 | 26°27 | 3° 1 |
| T 11 | 13 38 12 | 26°15'52 | 22°37 | 29° 1 | 1°30 | 9°57 | 14° 2 | 0°21 | 13°41 | 4°51 | 16°56 | 20°35 | 21°48 | 26°34 | 2°57 |
| F 12 | 13 42 8 | 27°13'59 | 5 Ω 0 | 28°24 | 2°44 | 10°15 | 14°13 | 0°21 | 13°44 | 4°52 | 16°56 | 20°31 | 21°45 | 26°40 | 2°53 |
| S 13 | 13 46 5 | 28°12'04 | 17°13 | 27°46 | 3°58 | 10°34 | 14°24 | 0°20 | 13°48 | 4°53 | 16°55 | 20°28 | 21°42 | 26°47 | 2°49 |
| S 14 | 13 50 2 | 29°10'07 | 29°16 | 27° 8 | 5°12 | 10°53 | 14°36 | 0°19 | 13°51 | 4°53 | 16°54 | 20°25 | 21°39 | 26°54 | 2°45 |
| M15 | 13 53 58 | 0 8 8'09 | 11 ∞ 12 | 26°30 | 6°26 | 11°12 | 14°47 | 0°18 | 13°54 | 4°54 | 16°53 | 20°24 | 21°35 | 27° 0 | 2°41 |
| T 16 | 13 57 55 | 1° 6'09 | 2 3 3 | 25°53 | 7°40 | 11°32 | 14°59 | 0°17 | 13°58 | 4°54 | 16°52 | 20°D24 | 21°32 | 27° 7 | 2°37 |
| W17 | 14 1 51 | 2° 4'07 | 4 X 51 | 25°18 | 8°53 | 11°52 | 15°10 | 0°15 | 14° 1 | 4°55 | 16°51 | 20°25 | 21°29 | 27°14 | 2°34 |
| T 18 | 14 5 48 | 3° 2'04 | 16°39 | 24°45 | 10° 7 | 12°13 | 15°22 | 0°14 | 14° 5 | 4°55 | 16°50 | 20°26 | 21°26 | 27°20 | 2°30 |
| F 19 | 14 9 44 | 4° 0'00 | 28°30 | 24°15 | 11°21 | 12°34 | 15°34 | 0°13 | 14° 8 | 4°56 | 16°49 | 20°27 | 21°23 | 27°27 | 2°27 |
| S 20 | 14 13 41 | 4°57'54 | 10 3 29 | 23°49 | 12°35 | 12°55 | 15°46 | 0°11 | 14°12 | 4°56 | 16°48 | 20°28 | 21°19 | 27°33 | 2°23 |
| S 21 | 14 17 37 | 5°55'47 | 22°39 | 23°26 | 13°49 | 13°17 | 15°58 | 0°10 | 14°15 | 4°57 | 16°47 | 20°29 | 21°16 | 27°40 | 2°20 |
| M22 | 14 21 34 | 6°53'39 | 5 ∞ 6 | 23° 7 | 15° 3 | 13°39 | 16°10 | 0° 8 | 14°19 | 4°57 | 16°46 | 20°R30 | 21°13 | 27°47 | 2°16 |
| T 23 | 14 25 31 | 7°51'29 | 17°53 | 22°52 | 16°16 | 14° 1 | 16°22 | 0° 6 | 14°22 | 4°57 | 16°45 | 20°30 | 21°10 | 27°53 | 2°13 |
| W24 | 14 29 27 | 8°49'18 | 1 X 3 | 22°41 | 17°30 | 14°23 | 16°34 | 0° 4 | 14°26 | 4°57 | 16°44 | 20°29 | 21° 7 | 28° 0 | 2°10 |
| T 25 | 14 33 24 | 9°47'06 | 14°41 | 22°35 | 18°44 | 14°46 | 16°46 | 0° 2 | 14°29 | 4°58 | 16°42 | 20°28 | 21° 4 | 28° 7 | 2° 7 |
| F 26 | 14 37 20 | 10°44'52 | 28°45 | 22°D33 | 19°58 | 15°10 | 16°58 | 0° 0 | 14°33 | 4°58 | 16°41 | 20°27 | 21° 0 | 28°13 | 2° 4 |
| S 27 | 14 41 17 | 11°42'38 | 13 Y 14 | 22°37 | 21°11 | 15°33 | 17°10 | 29 X 58 | 14°36 | 4°58 | 16°40 | 20°26 | 20°57 | 28°20 | 2° 1 |
| S 28 | 14 45 13 | 12°40'22 | 28° 4 | 22°44 | 22°25 | 15°57 | 17°23 | 29°56 | 14°40 | 4°58 | 16°39 | 20°25 | 20°54 | 28°27 | 1°59 |
| M29 | 14 49 10 | 13°38'04 | 13 8 8 | 22°56 | 23°39 | 16°21 | 17°35 | 29°54 | 14°43 | 4°58 | 16°38 | 20°D24 | 20°51 | 28°33 | 1°56 |
| T 30 | 14 53 6 | 14 8 35'46 | 28 8 16 | 23 Y 13 | 24 8 52 | 16 Ω 45 | 17 II 47 | 29 X 51 | 14 8 47 | 4 ∞ 58 | 16 X 36 | 20 8 24 | 20 8 48 | 28 ∞ 40 | 1 Ω 53 |

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SWISS EPHEMERIS for the year 1017

MAY 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|-------|
| W 1 | 14 57 3 | 15♄33'26 | 13♂21 | 23♃34 | 26♂ 6 | 17♂10 | 18♂ 0 | 29°R49 | 14♄50 | 4♄58 | 16°R35 | 20♄25 | 20♄44 | 28♂47 | 1°R51 |
| T 2 | 15 1 0 | 16°31'05 | 28°13 | 23°59 | 27°20 | 17°35 | 18°12 | 29°A46 | 14°54 | 4°R58 | 16°A34 | 20°25 | 20°41 | 28°53 | 1♄48 |
| F 3 | 15 4 56 | 17°28'42 | 12♄46 | 24°29 | 28°33 | 18° 0 | 18°25 | 29°44 | 14°57 | 4°58 | 16°33 | 20°25 | 20°38 | 29° 0 | 1°46 |
| S 4 | 15 8 53 | 18°26'18 | 26°57 | 25° 3 | 29°47 | 18°26 | 18°38 | 29°41 | 15° 1 | 4°58 | 16°31 | 20°26 | 20°35 | 29° 7 | 1°44 |
| S 5 | 15 12 49 | 19°23'53 | 10♂42 | 25°40 | 1♂ 1 | 18°51 | 18°50 | 29°38 | 15° 4 | 4°58 | 16°30 | 20°26 | 20°32 | 29°13 | 1°42 |
| M 6 | 15 16 46 | 20°21'25 | 24° 3 | 26°22 | 2°14 | 19°17 | 19° 3 | 29°35 | 15° 8 | 4°58 | 16°29 | 20°26 | 20°29 | 29°20 | 1°40 |
| T 7 | 15 20 42 | 21°18'56 | 7♂ 2 | 27° 7 | 3°28 | 19°44 | 19°16 | 29°32 | 15°11 | 4°58 | 16°27 | 20°26 | 20°25 | 29°26 | 1°38 |
| W 8 | 15 24 39 | 22°16'26 | 19°42 | 27°56 | 4°41 | 20°10 | 19°29 | 29°29 | 15°15 | 4°58 | 16°26 | 20°26 | 20°22 | 29°33 | 1°36 |
| T 9 | 15 28 35 | 23°13'55 | 2♄ 5 | 28°48 | 5°55 | 20°37 | 19°42 | 29°26 | 15°18 | 4°58 | 16°24 | 20°26 | 20°19 | 29°40 | 1°34 |
| F 10 | 15 32 32 | 24°11'22 | 14°16 | 29°44 | 7° 9 | 21° 4 | 19°54 | 29°23 | 15°21 | 4°57 | 16°23 | 20°26 | 20°16 | 29°46 | 1°33 |
| S 11 | 15 36 29 | 25° 8'48 | 26°16 | 0♄44 | 8°22 | 21°31 | 20° 7 | 29°20 | 15°25 | 4°57 | 16°22 | 20°27 | 20°13 | 29°53 | 1°31 |
| S 12 | 15 40 25 | 26° 6'12 | 8♂10 | 1°46 | 9°36 | 21°58 | 20°20 | 29°17 | 15°28 | 4°57 | 16°20 | 20°27 | 20°10 | 0♄ 0 | 1°30 |
| M13 | 15 44 22 | 27° 3'36 | 20° 0 | 2°52 | 10°49 | 22°26 | 20°33 | 29°13 | 15°32 | 4°57 | 16°19 | 20°R27 | 20° 6 | 0° 6 | 1°29 |
| T 14 | 15 48 18 | 28° 0'59 | 1♄48 | 4° 1 | 12° 3 | 22°54 | 20°46 | 29°10 | 15°35 | 4°56 | 16°17 | 20°27 | 20° 3 | 0°13 | 1°27 |
| W15 | 15 52 15 | 28°58'21 | 13°27 | 5°13 | 13°16 | 23°22 | 20°59 | 29° 7 | 15°39 | 4°56 | 16°16 | 20°27 | 20° 0 | 0°20 | 1°26 |
| T 16 | 15 56 11 | 29°55'42 | 25°28 | 6°28 | 14°29 | 23°50 | 21°13 | 29° 3 | 15°42 | 4°55 | 16°14 | 20°26 | 19°57 | 0°26 | 1°25 |
| F 17 | 16 0 8 | 0♂53'02 | 7♄24 | 7°46 | 15°43 | 24°19 | 21°26 | 28°59 | 15°46 | 4°55 | 16°13 | 20°24 | 19°54 | 0°33 | 1°25 |
| S 18 | 16 4 4 | 1°50'22 | 19°28 | 9° 7 | 16°56 | 24°47 | 21°39 | 28°56 | 15°49 | 4°54 | 16°11 | 20°23 | 19°50 | 0°40 | 1°24 |
| S 19 | 16 8 1 | 2°47'41 | 1♄43 | 10°31 | 18°10 | 25°16 | 21°52 | 28°52 | 15°52 | 4°54 | 16°10 | 20°21 | 19°47 | 0°46 | 1°23 |
| M20 | 16 11 58 | 3°44'59 | 14°12 | 11°57 | 19°23 | 25°45 | 22° 5 | 28°48 | 15°56 | 4°53 | 16° 8 | 20°20 | 19°44 | 0°53 | 1°23 |
| T 21 | 16 15 54 | 4°42'17 | 26°58 | 13°27 | 20°37 | 26°14 | 22°19 | 28°45 | 15°59 | 4°53 | 16° 7 | 20°19 | 19°41 | 1° 0 | 1°22 |
| W22 | 16 19 51 | 5°39'34 | 10♄ 5 | 14°59 | 21°50 | 26°44 | 22°32 | 28°41 | 16° 2 | 4°52 | 16° 5 | 20°D19 | 19°38 | 1° 6 | 1°22 |
| T 23 | 16 23 47 | 6°36'51 | 23°34 | 16°35 | 23° 3 | 27°14 | 22°45 | 28°37 | 16° 6 | 4°51 | 16° 4 | 20°20 | 19°35 | 1°13 | 1°22 |
| F 24 | 16 27 44 | 7°34'08 | 7♃28 | 18°13 | 24°17 | 27°43 | 22°59 | 28°33 | 16° 9 | 4°51 | 16° 2 | 20°21 | 19°31 | 1°19 | 1°D22 |
| S 25 | 16 31 40 | 8°31'24 | 21°47 | 19°54 | 25°30 | 28°13 | 23°12 | 28°29 | 16°12 | 4°50 | 16° 1 | 20°22 | 19°28 | 1°26 | 1°22 |
| S 26 | 16 35 37 | 9°28'40 | 6♄28 | 21°37 | 26°43 | 28°44 | 23°25 | 28°25 | 16°16 | 4°49 | 15°59 | 20°23 | 19°25 | 1°33 | 1°22 |
| M27 | 16 39 33 | 10°25'56 | 21°27 | 23°23 | 27°57 | 29°14 | 23°39 | 28°21 | 16°19 | 4°49 | 15°58 | 20°R23 | 19°22 | 1°39 | 1°22 |
| T 28 | 16 43 30 | 11°23'11 | 6♂36 | 25°12 | 29°10 | 29°44 | 23°52 | 28°17 | 16°22 | 4°48 | 15°56 | 20°23 | 19°19 | 1°46 | 1°22 |
| W29 | 16 47 27 | 12°20'26 | 21°47 | 27° 4 | 0♄23 | 0♂15 | 24° 6 | 28°13 | 16°25 | 4°47 | 15°55 | 20°21 | 19°16 | 1°53 | 1°23 |
| T 30 | 16 51 23 | 13°17'40 | 6♄48 | 28°58 | 1°37 | 0°46 | 24°19 | 28° 8 | 16°29 | 4°46 | 15°53 | 20°19 | 19°12 | 1°59 | 1°23 |
| F 31 | 16 55 20 | 14♂14'54 | 21♄33 | 0♂54 | 2♄50 | 1♂17 | 24♂33 | 28♄ 4 | 16♄32 | 4♄45 | 15♄51 | 20♄15 | 19♄ 9 | 2♄ 6 | 1♄24 |

Delta T = 24m52s Julian Calendar 1 May 1017 == Greg. Calendar 7 May 1017

JUNE 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|-------|------|------|
| S 1 | 16 59 16 | 15♂12'07 | 5♂55 | 2♂53 | 4♄ 3 | 1♂48 | 24♂46 | 28°R 0 | 16♄35 | 4°R44 | 15°R50 | 20°R12 | 19♄ 6 | 2♄13 | 1♄25 |
| S 2 | 17 3 13 | 16° 9'19 | 19°49 | 4°54 | 5°16 | 2°20 | 25° 0 | 27°A56 | 16°38 | 4♄44 | 15°A48 | 20♄ 9 | 19° 3 | 2°19 | 1°26 |
| M 3 | 17 7 9 | 17° 6'31 | 3♂16 | 6°57 | 6°30 | 2°51 | 25°13 | 27°51 | 16°41 | 4°43 | 15°47 | 20° 8 | 19° 0 | 2°26 | 1°27 |
| T 4 | 17 11 6 | 18° 3'42 | 16°16 | 9° 2 | 7°43 | 3°23 | 25°27 | 27°47 | 16°45 | 4°42 | 15°45 | 20°D 7 | 18°56 | 2°33 | 1°28 |
| W 5 | 17 15 2 | 19° 0'53 | 28°54 | 11° 9 | 8°56 | 3°55 | 25°40 | 27°43 | 16°48 | 4°41 | 15°44 | 20° 7 | 18°53 | 2°39 | 1°29 |
| T 6 | 17 18 59 | 19°58'03 | 11♄13 | 13°17 | 10° 9 | 4°27 | 25°54 | 27°38 | 16°51 | 4°40 | 15°42 | 20° 9 | 18°50 | 2°46 | 1°30 |
| F 7 | 17 22 56 | 20°55'12 | 23°17 | 15°26 | 11°22 | 4°59 | 26° 7 | 27°34 | 16°54 | 4°39 | 15°41 | 20°10 | 18°47 | 2°53 | 1°32 |
| S 8 | 17 26 52 | 21°52'22 | 5♂12 | 17°35 | 12°35 | 5°31 | 26°21 | 27°30 | 16°57 | 4°37 | 15°39 | 20°12 | 18°44 | 2°59 | 1°34 |
| S 9 | 17 30 49 | 22°49'31 | 17° 1 | 19°46 | 13°48 | 6° 4 | 26°34 | 27°25 | 17° 0 | 4°36 | 15°37 | 20°R13 | 18°41 | 3° 6 | 1°35 |
| M10 | 17 34 45 | 23°46'39 | 28°48 | 21°57 | 15° 2 | 6°36 | 26°48 | 27°21 | 17° 3 | 4°35 | 15°36 | 20°12 | 18°37 | 3°12 | 1°37 |
| T 11 | 17 38 42 | 24°43'48 | 10♄37 | 24° 7 | 16°15 | 7° 9 | 27° 2 | 27°16 | 17° 6 | 4°34 | 15°34 | 20°10 | 18°34 | 3°19 | 1°39 |
| W12 | 17 42 38 | 25°40'56 | 22°29 | 26°18 | 17°28 | 7°42 | 27°15 | 27°12 | 17° 9 | 4°33 | 15°33 | 20° 7 | 18°31 | 3°26 | 1°41 |
| T 13 | 17 46 35 | 26°38'05 | 4♄27 | 28°28 | 18°41 | 8°15 | 27°29 | 27° 8 | 17°11 | 4°32 | 15°31 | 20° 2 | 18°28 | 3°32 | 1°43 |
| F 14 | 17 50 32 | 27°35'13 | 16°33 | 0♄37 | 19°54 | 8°48 | 27°42 | 27° 3 | 17°14 | 4°31 | 15°30 | 19°56 | 18°25 | 3°39 | 1°45 |
| S 15 | 17 54 28 | 28°32'22 | 28°48 | 2°45 | 21° 7 | 9°22 | 27°56 | 26°59 | 17°17 | 4°29 | 15°28 | 19°49 | 18°22 | 3°46 | 1°48 |
| S 16 | 17 58 25 | 29°29'31 | 11♄13 | 4°52 | 22°20 | 9°55 | 28° 9 | 26°54 | 17°20 | 4°28 | 15°27 | 19°42 | 18°18 | 3°52 | 1°50 |
| M17 | 18 2 21 | 0♄26'40 | 23°51 | 6°58 | 23°33 | 10°29 | 28°23 | 26°50 | 17°23 | 4°27 | 15°25 | 19°37 | 18°15 | 3°59 | 1°53 |
| T 18 | 18 6 18 | 1°23'49 | 6♄43 | 9° 2 | 24°46 | 11° 2 | 28°37 | 26°45 | 17°26 | 4°26 | 15°24 | 19°32 | 18°12 | 4° 6 | 1°55 |
| W19 | 18 10 14 | 2°20'59 | 19°51 | 11° 5 | 25°59 | 11°36 | 28°50 | 26°41 | 17°28 | 4°24 | 15°22 | 19°30 | 18° 9 | 4°12 | 1°58 |
| T 20 | 18 14 11 | 3°18'09 | 3♃17 | 13° 6 | 27°11 | 12°10 | 29° 4 | 26°37 | 17°31 | 4°23 | 15°21 | 19°D29 | 18° 6 | 4°19 | 2° 1 |
| F 21 | 18 18 7 | 4°15'20 | 17° 2 | 15° 5 | 28°24 | 12°44 | 29°17 | 26°32 | 17°34 | 4°22 | 15°19 | 19°30 | 18° 2 | 4°26 | 2° 4 |
| S 22 | 18 22 4 | 5°12'32 | 1♄ 8 | 17° 3 | 29°37 | 13°18 | 29°31 | 26°28 | 17°36 | 4°20 | 15°18 | 19°31 | 17°59 | 4°32 | 2° 7 |
| S 23 | 18 26 1 | 6° 9'44 | 15°34 | 18°59 | 0♄50 | 13°53 | 29°44 | 26°24 | 17°39 | 4°19 | 15°17 | 19°R32 | 17°56 | 4°39 | 2°10 |
| M24 | 18 29 57 | 7° 6'57 | 0♂17 | 20°53 | 2° 3 | 14°27 | 29°58 | 26°19 | 17°41 | 4°17 | 15°15 | 19°31 | 17°53 | 4°46 | 2°13 |
| T 25 | 18 33 54 | 8° 4'10 | 15°12 | 22°45 | 3°16 | 15° 2 | 0♄11 | 26°15 | 17°44 | 4°16 | 15°14 | 19°29 | 17°50 | 4°52 | 2°17 |
| W26 | 18 37 50 | 9° 1'24 | 0♄12 | 24°36 | 4°29 | 15°36 | 0°25 | 26°11 | 17°46 | 4°15 | 15°12 | 19°25 | 17°47 | 4°59 | 2°20 |
| T 27 | 18 41 47 | 9°58'39 | 15° 9 | 26°24 | 5°41 | 16°11 | 0°38 | 26° 6 | 17°49 | 4°13 | 15°11 | 19°18 | 17°43 | 5° 6 | 2°24 |
| F 28 | 18 45 43 | 10°55'54 | 29°54 | 28°11 | 6°54 | 16°46 | 0°52 | 26° 2 | 17°51 | 4°12 | 15°10 | 19°11 | 17°40 | 5°12 | 2°27 |
| S 29 | 18 49 40 | 11°53'09 | 14♂18 | 29°56 | 8° 7 | 17°21 | 1° 5 | 25°58 | 17°54 | 4°10 | 15° 8 | 19° 3 | 17°37 | 5°19 | 2°31 |
| S 30 | 18 53 36 | 12♄50'25 | 28♂17 | 1♂39 | 9♂20 | 17♂56 | 1♄19 | 25♄54 | 17♄56 | 4♄ 9 | 15♄ 7 | 18♄55 | 17♄34 | 5♄26 | 2♄35 |

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SWISS EPHEMERIS for the year 1017

JULY 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|-----|----------|-----------------------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|---|---|---|---|---|---|---|---|
| M 1 | 18 57 33 | 13 [☾] 47'40 | 11 [♈] 48 | 3 [♊] 20 | 10 [♈] 32 | 18 [♈] 32 | 1 [☾] 32 | 25°R50 | 17 [♈] 58 | 4°R 7 | 15°R 6 | 18°R49 | 17 [♈] 31 | 5 [♈] 32 | 2 [♈] 39 | | | | | | | | |
| T 2 | 19 1 30 | 14°44'57 | 24°52 | 4°59 | 11°45 | 19° 7 | 1°45 | 25 [♈] 46 | 18° 1 | 4 [♈] 6 | 15 [♈] 4 | 18 [♈] 45 | 17°28 | 5°39 | 2°43 | | | | | | | | |
| W 3 | 19 5 26 | 15°42'13 | 7 [♈] 31 | 6°37 | 12°58 | 19°43 | 1°59 | 25°42 | 18° 3 | 4° 4 | 15° 3 | 18°43 | 17°24 | 5°45 | 2°47 | | | | | | | | |
| T 4 | 19 9 23 | 16°39'30 | 19°50 | 8°13 | 14°10 | 20°18 | 2°12 | 25°38 | 18° 5 | 4° 3 | 15° 2 | 18°D43 | 17°21 | 5°52 | 2°51 | | | | | | | | |
| F 5 | 19 13 19 | 17°36'48 | 1 [♈] 53 | 9°46 | 15°23 | 20°54 | 2°25 | 25°34 | 18° 7 | 4° 1 | 15° 0 | 18°44 | 17°18 | 5°59 | 2°56 | | | | | | | | |
| S 6 | 19 17 16 | 18°34'06 | 13°46 | 11°18 | 16°36 | 21°30 | 2°39 | 25°30 | 18° 9 | 4° 0 | 14°59 | 18°R44 | 17°15 | 6° 5 | 3° 0 | | | | | | | | |
| S 7 | 19 21 12 | 19°31'24 | 25°34 | 12°49 | 17°48 | 22° 6 | 2°52 | 25°26 | 18°11 | 3°58 | 14°58 | 18°44 | 17°12 | 6°12 | 3° 5 | | | | | | | | |
| M 8 | 19 25 9 | 20°28'43 | 7 [♈] 22 | 14°17 | 19° 1 | 22°42 | 3° 5 | 25°22 | 18°13 | 3°56 | 14°57 | 18°42 | 17° 8 | 6°19 | 3° 9 | | | | | | | | |
| T 9 | 19 29 5 | 21°26'03 | 19°14 | 15°43 | 20°13 | 23°18 | 3°18 | 25°18 | 18°15 | 3°55 | 14°56 | 18°38 | 17° 5 | 6°25 | 3°14 | | | | | | | | |
| W10 | 19 33 2 | 22°23'24 | 1 [♈] 12 | 17° 8 | 21°26 | 23°54 | 3°32 | 25°15 | 18°17 | 3°53 | 14°54 | 18°32 | 17° 2 | 6°32 | 3°19 | | | | | | | | |
| T11 | 19 36 59 | 23°20'45 | 13°19 | 18°30 | 22°38 | 24°31 | 3°45 | 25°11 | 18°19 | 3°52 | 14°53 | 18°23 | 16°59 | 6°39 | 3°23 | | | | | | | | |
| F12 | 19 40 55 | 24°18'07 | 25°38 | 19°51 | 23°50 | 25° 7 | 3°58 | 25° 8 | 18°21 | 3°50 | 14°52 | 18°12 | 16°56 | 6°45 | 3°28 | | | | | | | | |
| S13 | 19 44 52 | 25°15'30 | 8 [♈] 8 | 21° 9 | 25° 3 | 25°44 | 4°11 | 25° 4 | 18°23 | 3°48 | 14°51 | 18° 0 | 16°53 | 6°52 | 3°33 | | | | | | | | |
| S14 | 19 48 48 | 26°12'54 | 20°50 | 22°26 | 26°15 | 26°20 | 4°24 | 25° 1 | 18°25 | 3°47 | 14°50 | 17°49 | 16°49 | 6°59 | 3°39 | | | | | | | | |
| M15 | 19 52 45 | 27°10'20 | 3 [♈] 45 | 23°40 | 27°27 | 26°57 | 4°37 | 24°57 | 18°27 | 3°45 | 14°49 | 17°39 | 16°46 | 7° 5 | 3°44 | | | | | | | | |
| T16 | 19 56 41 | 28° 7'46 | 16°51 | 24°52 | 28°40 | 27°34 | 4°50 | 24°54 | 18°28 | 3°44 | 14°48 | 17°31 | 16°43 | 7°12 | 3°49 | | | | | | | | |
| W17 | 20 0 38 | 29° 5'13 | 0 [♈] 9 | 26° 2 | 29°52 | 28°11 | 5° 3 | 24°51 | 18°30 | 3°42 | 14°47 | 17°25 | 16°40 | 7°19 | 3°54 | | | | | | | | |
| T18 | 20 4 34 | 0 [♈] 2'42 | 13°40 | 27°10 | 1 [♈] 4 | 28°48 | 5°16 | 24°47 | 18°32 | 3°40 | 14°46 | 17°22 | 16°37 | 7°25 | 4° 0 | | | | | | | | |
| F19 | 20 8 31 | 1° 0'13 | 27°23 | 28°15 | 2°16 | 29°25 | 5°29 | 24°44 | 18°33 | 3°39 | 14°45 | 17°D21 | 16°34 | 7°32 | 4° 5 | | | | | | | | |
| S20 | 20 12 28 | 1°57'45 | 11 [♈] 21 | 29°18 | 3°28 | 0 [♈] 3 | 5°41 | 24°41 | 18°35 | 3°37 | 14°44 | 17°R21 | 16°30 | 7°39 | 4°11 | | | | | | | | |
| S21 | 20 16 24 | 2°55'18 | 25°33 | 0 [♈] 18 | 4°41 | 0°40 | 5°54 | 24°38 | 18°36 | 3°35 | 14°43 | 17°21 | 16°27 | 7°45 | 4°17 | | | | | | | | |
| M22 | 20 20 21 | 3°52'53 | 9 [♈] 57 | 1°15 | 5°53 | 1°18 | 6° 7 | 24°35 | 18°38 | 3°34 | 14°42 | 17°20 | 16°24 | 7°52 | 4°23 | | | | | | | | |
| T23 | 20 24 17 | 4°50'29 | 24°31 | 2° 9 | 7° 5 | 1°55 | 6°20 | 24°32 | 18°39 | 3°32 | 14°41 | 17°16 | 16°21 | 7°59 | 4°28 | | | | | | | | |
| W24 | 20 28 14 | 5°48'07 | 9 [♈] 11 | 3° 0 | 8°17 | 2°33 | 6°32 | 24°30 | 18°40 | 3°31 | 14°41 | 17° 9 | 16°18 | 8° 5 | 4°34 | | | | | | | | |
| T25 | 20 32 10 | 6°45'47 | 23°49 | 3°49 | 9°29 | 3°11 | 6°45 | 24°27 | 18°42 | 3°29 | 14°40 | 17° 0 | 16°14 | 8°12 | 4°40 | | | | | | | | |
| F26 | 20 36 7 | 7°43'28 | 8 [♈] 19 | 4°33 | 10°41 | 3°49 | 6°57 | 24°24 | 18°43 | 3°27 | 14°39 | 16°49 | 16°11 | 8°19 | 4°46 | | | | | | | | |
| S27 | 20 40 4 | 8°41'10 | 22°33 | 5°15 | 11°53 | 4°27 | 7°10 | 24°22 | 18°44 | 3°26 | 14°38 | 16°38 | 16° 8 | 8°25 | 4°53 | | | | | | | | |
| S28 | 20 44 0 | 9°38'53 | 6 [♈] 26 | 5°52 | 13° 5 | 5° 5 | 7°22 | 24°19 | 18°45 | 3°24 | 14°38 | 16°27 | 16° 5 | 8°32 | 4°59 | | | | | | | | |
| M29 | 20 47 57 | 10°36'37 | 19°55 | 6°25 | 14°16 | 5°43 | 7°35 | 24°17 | 18°46 | 3°22 | 14°37 | 16°17 | 16° 2 | 8°39 | 5° 5 | | | | | | | | |
| T30 | 20 51 53 | 11°34'23 | 2 [♈] 58 | 6°55 | 15°28 | 6°21 | 7°47 | 24°15 | 18°47 | 3°21 | 14°36 | 16°10 | 15°59 | 8°45 | 5°11 | | | | | | | | |
| W31 | 20 55 50 | 12 [♈] 32'10 | 15 [♈] 38 | 7 [♈] 19 | 16 [♈] 40 | 7 [♈] 0 | 7 [♈] 59 | 24 [♈] 12 | 18 [♈] 48 | 3 [♈] 19 | 14 [♈] 36 | 16 [♈] 6 | 15 [♈] 55 | 8 [♈] 52 | 5 [♈] 18 | | | | | | | | |

Delta T = 24m51s Julian Calendar 1 July 1017 == Greg. Calendar 7 July 1017

AUGUST 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|-----|----------|-----------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|---|---|---|---|---|---|---|---|
| T 1 | 20 59 46 | 13 [♈] 29'58 | 27 [♈] 58 | 7 [♈] 40 | 17 [♈] 52 | 7 [♈] 38 | 8 [♈] 11 | 24°R10 | 18 [♈] 49 | 3°R18 | 14°R35 | 16°R 4 | 15 [♈] 52 | 8 [♈] 58 | 5 [♈] 24 | | | | | | | | |
| F 2 | 21 3 43 | 14°27'47 | 10 [♈] 2 | 7°55 | 19° 4 | 8°17 | 8°24 | 24 [♈] 8 | 18°50 | 3 [♈] 16 | 14 [♈] 34 | 16 [♈] 3 | 15°49 | 9° 5 | 5°31 | | | | | | | | |
| S 3 | 21 7 39 | 15°25'38 | 21°56 | 8° 5 | 20°15 | 8°55 | 8°36 | 24° 6 | 18°51 | 3°14 | 14°34 | 16° 3 | 15°46 | 9°12 | 5°38 | | | | | | | | |
| S 4 | 21 11 36 | 16°23'29 | 3 [♈] 45 | 8°R 9 | 21°27 | 9°34 | 8°48 | 24° 4 | 18°52 | 3°13 | 14°33 | 16° 3 | 15°43 | 9°18 | 5°44 | | | | | | | | |
| M 5 | 21 15 32 | 17°21'23 | 15°34 | 8° 8 | 22°38 | 10°13 | 9° 0 | 24° 3 | 18°53 | 3°11 | 14°33 | 16° 0 | 15°40 | 9°25 | 5°51 | | | | | | | | |
| T 6 | 21 19 29 | 18°19'17 | 27°29 | 8° 2 | 23°50 | 10°52 | 9°11 | 24° 1 | 18°53 | 3°10 | 14°32 | 15°56 | 15°36 | 9°32 | 5°58 | | | | | | | | |
| W 7 | 21 23 26 | 19°17'13 | 9 [♈] 33 | 7°49 | 25° 1 | 11°31 | 9°23 | 23°59 | 18°54 | 3° 8 | 14°32 | 15°49 | 15°33 | 9°38 | 6° 5 | | | | | | | | |
| T 8 | 21 27 22 | 20°15'11 | 21°50 | 7°30 | 26°13 | 12°10 | 9°35 | 23°58 | 18°55 | 3° 7 | 14°31 | 15°39 | 15°30 | 9°45 | 6°12 | | | | | | | | |
| F 9 | 21 31 19 | 21°13'10 | 4 [♈] 21 | 7° 5 | 27°24 | 12°49 | 9°47 | 23°56 | 18°55 | 3° 5 | 14°31 | 15°27 | 15°27 | 9°52 | 6°19 | | | | | | | | |
| S10 | 21 35 15 | 22°11'10 | 17° 8 | 6°34 | 28°35 | 13°29 | 9°58 | 23°55 | 18°56 | 3° 4 | 14°31 | 15°14 | 15°24 | 9°58 | 6°26 | | | | | | | | |
| S11 | 21 39 12 | 23° 9'12 | 0 [♈] 16 | 5°57 | 29°47 | 14° 8 | 10°10 | 23°54 | 18°56 | 3° 2 | 14°30 | 15° 1 | 15°20 | 10° 5 | 6°33 | | | | | | | | |
| M12 | 21 43 8 | 24° 7'16 | 13°26 | 5°15 | 0 [♈] 58 | 14°47 | 10°21 | 23°53 | 18°56 | 3° 0 | 14°30 | 14°50 | 15°17 | 10°12 | 6°40 | | | | | | | | |
| T13 | 21 47 5 | 25° 5'22 | 26°54 | 4°28 | 2° 9 | 15°27 | 10°33 | 23°52 | 18°57 | 2°59 | 14°30 | 14°41 | 15°14 | 10°18 | 6°47 | | | | | | | | |
| W14 | 21 51 1 | 26° 3'29 | 10 [♈] 32 | 3°36 | 3°20 | 16° 6 | 10°44 | 23°51 | 18°57 | 2°58 | 14°30 | 14°35 | 15°11 | 10°25 | 6°54 | | | | | | | | |
| T15 | 21 54 58 | 27° 1'39 | 24°18 | 2°41 | 4°31 | 16°46 | 10°55 | 23°50 | 18°57 | 2°56 | 14°29 | 14°31 | 15° 8 | 10°32 | 7° 2 | | | | | | | | |
| F16 | 21 58 55 | 27°59'50 | 8 [♈] 11 | 1°44 | 5°42 | 17°26 | 11° 6 | 23°49 | 18°58 | 2°55 | 14°29 | 14°30 | 15° 5 | 10°38 | 7° 9 | | | | | | | | |
| S17 | 22 2 51 | 28°58'04 | 22°11 | 0°45 | 6°53 | 18° 6 | 11°18 | 23°48 | 18°58 | 2°53 | 14°29 | 14°30 | 15° 1 | 10°45 | 7°17 | | | | | | | | |
| S18 | 22 6 48 | 29°56'20 | 6 [♈] 17 | 29 [♈] 46 | 8° 4 | 18°46 | 11°29 | 23°48 | 18°58 | 2°52 | 14°29 | 14°30 | 14°58 | 10°52 | 7°24 | | | | | | | | |
| M19 | 22 10 44 | 0 [♈] 54'38 | 20°28 | 28°48 | 9°15 | 19°26 | 11°39 | 23°47 | 18°58 | 2°50 | 14°29 | 14°29 | 14°55 | 10°58 | 7°32 | | | | | | | | |
| T20 | 22 14 41 | 1°52'58 | 4 [♈] 42 | 27°52 | 10°26 | 20° 6 | 11°50 | 23°47 | 18°R58 | 2°49 | 14°29 | 14°25 | 14°52 | 11° 5 | 7°39 | | | | | | | | |
| W21 | 22 18 37 | 2°51'20 | 18°58 | 27° 1 | 11°37 | 20°46 | 12° 1 | 23°47 | 18°58 | 2°48 | 14°D29 | 14°19 | 14°49 | 11°12 | 7°47 | | | | | | | | |
| T22 | 22 22 34 | 3°49'45 | 3 [♈] 10 | 18°10 | 26°14 | 12°47 | 12°12 | 23°47 | 18°58 | 2°46 | 14°29 | 14°10 | 14°46 | 11°18 | 7°54 | | | | | | | | |
| F23 | 22 26 30 | 4°48'11 | 17°15 | 25°33 | 13°58 | 22° 7 | 12°22 | 23°D47 | 18°58 | 2°45 | 14°29 | 14° 0 | 14°42 | 11°25 | 8° 2 | | | | | | | | |
| S24 | 22 30 27 | 5°46'39 | 1 [♈] 8 | 25° 0 | 15° 8 | 22°48 | 12°33 | 23°47 | 18°57 | 2°44 | 14°29 | 13°49 | 14°39 | 11°32 | 8°10 | | | | | | | | |
| S25 | 22 34 24 | 6°45'10 | 14°45 | 24°35 | 16°19 | 23°28 | 12°43 | 23°47 | 18°57 | 2°42 | 14°29 | 13°38 | 14°36 | 11°38 | 8°18 | | | | | | | | |
| M26 | 22 38 20 | 7°43'42 | 28° 1 | 24°19 | 17°29 | 24° 9 | 12°53 | 23°47 | 18°57 | 2°41 | 14°29 | 13°29 | 14°33 | 11°45 | 8°25 | | | | | | | | |

SWISS EPHEMERIS for the year 1017

SEPTEMBER 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|---|---|
| S 1 | 23 1 59 | 13♎35'32 | 11♏38 | 25♍58 | 24♎31 | 28♏15 | 13♏53 | 23♏50 | 18°R54 | 2°R34 | 14♏31 | 13°R17 | 14♏14 | 12♏25 | 9♏13 | | |
| M 2 | 23 5 56 | 14°34'17 | 23°28 | 26°46 | 25°41 | 28°56 | 14° 2 | 23°51 | 18♏53 | 2♏33 | 14°31 | 13♏17 | 14°11 | 12°32 | 9°21 | | |
| T 3 | 23 9 53 | 15°33'04 | 5♏25 | 27°42 | 26°51 | 29°37 | 14°12 | 23°52 | 18°52 | 2°32 | 14°31 | 13°14 | 14° 7 | 12°38 | 9°30 | | |
| W 4 | 23 13 49 | 16°31'52 | 17°32 | 28°45 | 28° 0 | 0♎19 | 14°21 | 23°53 | 18°52 | 2°31 | 14°32 | 13°10 | 14° 4 | 12°45 | 9°38 | | |
| T 5 | 23 17 46 | 17°30'42 | 29°54 | 29°56 | 29°10 | 1° 0 | 14°30 | 23°55 | 18°51 | 2°30 | 14°32 | 13° 3 | 14° 1 | 12°52 | 9°46 | | |
| F 6 | 23 21 42 | 18°29'34 | 12♏34 | 1♎12 | 0♎20 | 1°42 | 14°39 | 23°56 | 18°50 | 2°29 | 14°33 | 12°55 | 13°58 | 12°58 | 9°54 | | |
| S 7 | 23 25 39 | 19°28'28 | 25°33 | 2°34 | 1°29 | 2°23 | 14°48 | 23°57 | 18°49 | 2°28 | 14°33 | 12°46 | 13°55 | 13° 5 | 10° 2 | | |
| S 8 | 23 29 35 | 20°27'23 | 8♏53 | 4° 0 | 2°39 | 3° 5 | 14°57 | 23°59 | 18°48 | 2°27 | 14°34 | 12°37 | 13°51 | 13°12 | 10°11 | | |
| M 9 | 23 33 32 | 21°26'21 | 22°30 | 5°31 | 3°48 | 3°47 | 15° 6 | 24° 0 | 18°47 | 2°26 | 14°34 | 12°28 | 13°48 | 13°18 | 10°19 | | |
| T 10 | 23 37 28 | 22°25'20 | 6♎22 | 7° 5 | 4°58 | 4°29 | 15°15 | 24° 2 | 18°46 | 2°25 | 14°35 | 12°22 | 13°45 | 13°25 | 10°27 | | |
| W11 | 23 41 25 | 23°24'22 | 20°26 | 8°42 | 6° 7 | 5°10 | 15°23 | 24° 4 | 18°45 | 2°24 | 14°36 | 12°18 | 13°42 | 13°32 | 10°36 | | |
| T 12 | 23 45 22 | 24°23'26 | 4♏37 | 10°21 | 7°16 | 5°52 | 15°32 | 24° 6 | 18°44 | 2°23 | 14°36 | 12°16 | 13°39 | 13°38 | 10°44 | | |
| F 13 | 23 49 18 | 25°22'33 | 18°51 | 12° 2 | 8°25 | 6°35 | 15°40 | 24° 8 | 18°43 | 2°22 | 14°37 | 12°D16 | 13°36 | 13°45 | 10°52 | | |
| S 14 | 23 53 15 | 26°21'41 | 3♎5 | 13°45 | 9°34 | 7°17 | 15°48 | 24°10 | 18°42 | 2°21 | 14°38 | 12°17 | 13°32 | 13°52 | 11° 1 | | |
| S 15 | 23 57 11 | 27°20'53 | 17°18 | 15°29 | 10°43 | 7°59 | 15°56 | 24°12 | 18°40 | 2°21 | 14°39 | 12°18 | 13°29 | 13°58 | 11° 9 | | |
| M16 | 0 1 8 | 28°20'06 | 1♏26 | 17°14 | 11°51 | 8°41 | 16° 4 | 24°14 | 18°39 | 2°20 | 14°39 | 12°R18 | 13°26 | 14° 5 | 11°18 | | |
| T 17 | 0 5 4 | 29°19'22 | 15°29 | 19° 0 | 13° 0 | 9°24 | 16°11 | 24°16 | 18°38 | 2°19 | 14°40 | 12°17 | 13°23 | 14°12 | 11°26 | | |
| W18 | 0 9 1 | 0♎18'41 | 29°26 | 20°45 | 14° 8 | 10° 6 | 16°19 | 24°19 | 18°36 | 2°18 | 14°41 | 12°14 | 13°20 | 14°18 | 11°35 | | |
| T 19 | 0 12 57 | 1°18'02 | 13♎14 | 22°31 | 15°17 | 10°49 | 16°26 | 24°21 | 18°35 | 2°18 | 14°42 | 12° 9 | 13°17 | 14°25 | 11°43 | | |
| F 20 | 0 16 54 | 2°17'25 | 26°53 | 24°17 | 16°25 | 11°31 | 16°34 | 24°24 | 18°33 | 2°17 | 14°43 | 12° 3 | 13°13 | 14°32 | 11°52 | | |
| S 21 | 0 20 51 | 3°16'50 | 10♎19 | 26° 3 | 17°33 | 12°14 | 16°41 | 24°27 | 18°32 | 2°17 | 14°44 | 11°56 | 13°10 | 14°38 | 12° 0 | | |
| S 22 | 0 24 47 | 4°16'17 | 23°32 | 27°49 | 18°41 | 12°57 | 16°48 | 24°30 | 18°30 | 2°16 | 14°45 | 11°50 | 13° 7 | 14°45 | 12° 9 | | |
| M23 | 0 28 44 | 5°15'47 | 6♎29 | 29°34 | 19°49 | 13°40 | 16°55 | 24°32 | 18°29 | 2°15 | 14°46 | 11°44 | 13° 4 | 14°52 | 12°17 | | |
| T 24 | 0 32 40 | 6°15'18 | 19°11 | 1♎19 | 20°57 | 14°23 | 17° 2 | 24°35 | 18°27 | 2°15 | 14°47 | 11°40 | 13° 1 | 14°58 | 12°26 | | |
| W25 | 0 36 37 | 7°14'52 | 1♎37 | 3° 3 | 22° 5 | 15° 6 | 17° 8 | 24°39 | 18°25 | 2°14 | 14°48 | 11°38 | 12°57 | 15° 5 | 12°34 | | |
| T 26 | 0 40 33 | 8°14'27 | 13°49 | 4°47 | 23°12 | 15°49 | 17°15 | 24°42 | 18°24 | 2°14 | 14°49 | 11°D38 | 12°54 | 15°12 | 12°43 | | |
| F 27 | 0 44 30 | 9°14'05 | 25°50 | 6°30 | 24°20 | 16°32 | 17°21 | 24°45 | 18°22 | 2°14 | 14°50 | 11°39 | 12°51 | 15°18 | 12°51 | | |
| S 28 | 0 48 26 | 10°13'44 | 7♏43 | 8°12 | 25°27 | 17°15 | 17°27 | 24°48 | 18°20 | 2°13 | 14°51 | 11°40 | 12°48 | 15°25 | 13° 0 | | |
| S 29 | 0 52 23 | 11°13'26 | 19°31 | 9°54 | 26°34 | 17°58 | 17°33 | 24°52 | 18°18 | 2°13 | 14°53 | 11°42 | 12°45 | 15°32 | 13° 8 | | |
| M30 | 0 56 20 | 12♎13'09 | 1♏21 | 11♎36 | 27♎41 | 18♎42 | 17♏39 | 24♏55 | 18♏16 | 2♏13 | 14♏54 | 11♏43 | 12♏42 | 15♏38 | 13♏17 | | |

Delta T = 24m50s Julian Calendar 1 Sept. 1017 == Greg. Calendar 7 Sept. 1017

OCTOBER 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
|------|---------|----------|-------|-------|-------|-------|--------|-------|--------|-------|-------|--------|-------|-------|-------|---|---|
| T 1 | 1 0 16 | 13♏12'54 | 13♏16 | 13♏17 | 28♎48 | 19♎25 | 17♏44 | 24♏59 | 18°R14 | 2°R12 | 14♏55 | 11°R44 | 12♏38 | 15♏45 | 13♏26 | | |
| W 2 | 1 4 13 | 14°12'40 | 25°22 | 14°57 | 29°55 | 20° 9 | 17°50 | 25° 3 | 18♏12 | 2♏12 | 14°56 | 11♏43 | 12°35 | 15°52 | 13°34 | | |
| T 3 | 1 8 9 | 15°12'29 | 7♏44 | 16°36 | 1♏1 | 20°52 | 17°55 | 25° 6 | 18°10 | 2°12 | 14°58 | 11°42 | 12°32 | 15°58 | 13°43 | | |
| F 4 | 1 12 6 | 16°12'19 | 20°25 | 18°15 | 2° 7 | 21°36 | 18° 0 | 25°10 | 18° 8 | 2°12 | 14°59 | 11°39 | 12°29 | 16° 5 | 13°51 | | |
| S 5 | 1 16 2 | 17°12'11 | 3♏28 | 19°54 | 3°13 | 22°20 | 18° 5 | 25°14 | 18° 6 | 2°12 | 15° 0 | 11°35 | 12°26 | 16°12 | 14° 0 | | |
| S 6 | 1 19 59 | 18°12'04 | 16°56 | 21°32 | 4°19 | 23° 3 | 18°10 | 25°18 | 18° 4 | 2°11 | 15° 2 | 11°31 | 12°23 | 16°18 | 14° 9 | | |
| M 7 | 1 23 55 | 19°11'59 | 0♎46 | 23° 9 | 5°25 | 23°47 | 18°15 | 25°22 | 18° 2 | 2°11 | 15° 3 | 11°28 | 12°19 | 16°25 | 14°17 | | |
| T 8 | 1 27 52 | 20°11'57 | 14°58 | 24°46 | 6°31 | 24°31 | 18°19 | 25°26 | 18° 0 | 2°11 | 15° 5 | 11°26 | 12°16 | 16°32 | 14°26 | | |
| W 9 | 1 31 48 | 21°11'56 | 29°25 | 26°22 | 7°36 | 25°15 | 18°23 | 25°30 | 17°58 | 2°D11 | 15° 6 | 11°24 | 12°13 | 16°38 | 14°34 | | |
| T 10 | 1 35 45 | 22°11'57 | 14♏3 | 27°58 | 8°41 | 25°59 | 18°27 | 25°35 | 17°56 | 2°11 | 15° 8 | 11°D24 | 12°10 | 16°45 | 14°43 | | |
| F 11 | 1 39 42 | 23°12'00 | 28°45 | 29°33 | 9°46 | 26°43 | 18°31 | 25°39 | 17°54 | 2°11 | 15° 9 | 11°24 | 12° 7 | 16°52 | 14°51 | | |
| S 12 | 1 43 38 | 24°12'05 | 13♎24 | 1♎8 | 10°50 | 27°27 | 18°35 | 25°44 | 17°51 | 2°11 | 15°11 | 11°25 | 12° 3 | 16°58 | 15° 0 | | |
| S 13 | 1 47 35 | 25°12'13 | 27°55 | 2°42 | 11°55 | 28°12 | 18°39 | 25°48 | 17°49 | 2°12 | 15°12 | 11°27 | 12° 0 | 17° 5 | 15° 8 | | |
| M14 | 1 51 31 | 26°12'23 | 12♏14 | 4°16 | 12°59 | 28°56 | 18°42 | 25°53 | 17°47 | 2°12 | 15°14 | 11°28 | 11°57 | 17°12 | 15°17 | | |
| T 15 | 1 55 28 | 27°12'35 | 26°19 | 5°50 | 14° 3 | 29°40 | 18°45 | 25°57 | 17°45 | 2°12 | 15°15 | 11°R28 | 11°54 | 17°18 | 15°25 | | |
| W16 | 1 59 24 | 28°12'49 | 10♎8 | 7°23 | 15° 7 | 0♏25 | 18°48 | 26° 2 | 17°42 | 2°12 | 15°17 | 11°28 | 11°51 | 17°25 | 15°34 | | |
| T 17 | 2 3 21 | 29°13'05 | 23°41 | 8°56 | 16°10 | 1° 9 | 18°51 | 26° 7 | 17°40 | 2°12 | 15°19 | 11°27 | 11°48 | 17°32 | 15°42 | | |
| F 18 | 2 7 17 | 0♎13'23 | 6♎59 | 10°28 | 17°13 | 1°54 | 18°54 | 26°12 | 17°38 | 2°13 | 15°20 | 11°26 | 11°44 | 17°38 | 15°51 | | |
| S 19 | 2 11 14 | 1°13'43 | 20° 2 | 12° 1 | 18°16 | 2°38 | 18°56 | 26°17 | 17°35 | 2°13 | 15°22 | 11°24 | 11°41 | 17°45 | 15°59 | | |
| S 20 | 2 15 11 | 2°14'05 | 2♎51 | 13°32 | 19°19 | 3°23 | 18°58 | 26°22 | 17°33 | 2°13 | 15°24 | 11°23 | 11°38 | 17°52 | 16° 7 | | |
| M21 | 2 19 7 | 3°14'29 | 15°26 | 15° 4 | 20°21 | 4° 8 | 19° 1 | 26°27 | 17°30 | 2°14 | 15°25 | 11°22 | 11°35 | 17°58 | 16°16 | | |
| T 22 | 2 23 4 | 4°14'54 | 27°50 | 16°35 | 21°23 | 4°53 | 19° 2 | 26°32 | 17°28 | 2°14 | 15°27 | 11°21 | 11°32 | 18° 5 | 16°24 | | |
| W23 | 2 27 0 | 5°15'22 | 10♎3 | 18° 5 | 22°24 | 5°37 | 19° 4 | 26°37 | 17°25 | 2°15 | 15°29 | 11°D21 | 11°28 | 18°12 | 16°32 | | |
| T 24 | 2 30 57 | 6°15'51 | 22° 7 | 19°36 | 23°26 | 6°22 | 19° 6 | 26°43 | 17°23 | 2°15 | 15°31 | 11°21 | 11°25 | 18°18 | 16°41 | | |
| F 25 | 2 34 53 | 7°16'22 | 4♏3 | 21° 5 | 24°27 | 7° 7 | 19° 7 | 26°48 | 17°21 | 2°16 | 15°32 | 11°21 | 11°22 | 18°25 | 16°49 | | |
| S 26 | 2 38 50 | 8°16'54 | 15°54 | 22°35 | 25°27 | 7°52 | 19° 8 | 26°54 | 17°18 | 2°16 | 15°34 | 11°22 | 11°19 | 18°32 | 16°57 | | |
| S 27 | 2 42 46 | 9°17'28 | 27°42 | 24° 4 | 26°27 | 8°38 | 19° 9 | 26°59 | 17°16 | 2°17 | 15°36 | 11°22 | 11°16 | 18°38 | 17° 5 | | |
| M28 | 2 46 43 | 10°18'03 | 9♏31 | 25°33 | 27°27 | 9°23 | 19°10 | 27° 5 | 17°13 | 2°18 | 15°38 | 11°22 | 11°13 | 18°45 | 17°13 | | |
| T 29 | 2 50 40 | 11°18'39 | 21°25 | 27° 1 | 28°27 | 10° 8 | 19°10 | 27°10 | 17°11 | 2°18 | 15°40 | 11°R22 | 11° 9 | 18°52 | 17°22 | | |
| W30 | 2 54 36 | 12°19'17 | 3♏29 | 28°29 | 29°26 | 10°53 | 19°10 | 27°16 | 17° 8 | 2°19 | 15°42 | 11°22 | 11° 6 | 18°58 | 17°30 | | |
| T 31 | 2 58 33 | 13♎19'56 | 15♏47 | 29♎57 | 0♏24 | 11♏39 | 19°R11 | 27♏22 | 17♏6 | 2♏20 | 15♏44 | 11°D22 | 11♏3 | 19♏5 | 17♏38 | | |

Delta T = 24m50s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 1017

NOVEMBER 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|--------|-------|-------|--------|-------|--------|------|-------|--------|-------|-------|-------|---|
| F 1 | 3 2 29 | 14♌20'36 | 28♋22 | 1♂23 | 1♁22 | 12♂24 | 19°R10 | 27♂27 | 17°R 3 | 2♁20 | 15♂46 | 11♁22 | 11♁ 0 | 19♂12 | 17♁46 | |
| S 2 | 3 6 26 | 15°21'17 | 11♋20 | 2°50 | 2°20 | 13° 9 | 19♁10 | 27°33 | 17♁ 1 | 2°21 | 15°48 | 11°23 | 10°57 | 19°18 | 17°54 | |
| S 3 | 3 10 22 | 16°21'59 | 24°44 | 4°15 | 3°17 | 13°55 | 19°10 | 27°39 | 16°58 | 2°22 | 15°50 | 11°23 | 10°54 | 19°25 | 18° 2 | |
| M 4 | 3 14 19 | 17°22'43 | 8♌34 | 5°40 | 4°13 | 14°40 | 19° 9 | 27°45 | 16°55 | 2°23 | 15°52 | 11°24 | 10°50 | 19°32 | 18°10 | |
| T 5 | 3 18 15 | 18°23'27 | 22°51 | 7° 4 | 5° 9 | 15°26 | 19° 8 | 27°51 | 16°53 | 2°24 | 15°54 | 11°24 | 10°47 | 19°38 | 18°17 | |
| W 6 | 3 22 12 | 19°24'13 | 7♄30 | 8°26 | 6° 5 | 16°12 | 19° 7 | 27°57 | 16°50 | 2°25 | 15°56 | 11°R24 | 10°44 | 19°45 | 18°25 | |
| T 7 | 3 26 9 | 20°25'00 | 22°27 | 9°48 | 6°59 | 16°57 | 19° 6 | 28° 3 | 16°48 | 2°26 | 15°58 | 11°24 | 10°41 | 19°52 | 18°33 | |
| F 8 | 3 30 5 | 21°25'49 | 7♄32 | 11° 9 | 7°54 | 17°43 | 19° 4 | 28° 9 | 16°45 | 2°27 | 16° 0 | 11°24 | 10°38 | 19°58 | 18°41 | |
| S 9 | 3 34 2 | 22°26'38 | 22°37 | 12°27 | 8°47 | 18°29 | 19° 3 | 28°15 | 16°43 | 2°28 | 16° 2 | 11°23 | 10°34 | 20° 5 | 18°49 | |
| S 10 | 3 37 58 | 23°27'30 | 7♄33 | 13°45 | 9°40 | 19°15 | 19° 1 | 28°21 | 16°40 | 2°29 | 16° 4 | 11°21 | 10°31 | 20°12 | 18°56 | |
| M11 | 3 41 55 | 24°28'22 | 22°13 | 15° 0 | 10°32 | 20° 1 | 18°59 | 28°28 | 16°38 | 2°30 | 16° 6 | 11°20 | 10°28 | 20°18 | 19° 4 | |
| T 12 | 3 45 51 | 25°29'16 | 6♌31 | 16°13 | 11°24 | 20°47 | 18°56 | 28°34 | 16°35 | 2°31 | 16° 8 | 11°18 | 10°25 | 20°25 | 19°11 | |
| W13 | 3 49 48 | 26°30'12 | 20°25 | 17°23 | 12°14 | 21°33 | 18°54 | 28°40 | 16°33 | 2°32 | 16°10 | 11°D18 | 10°22 | 20°32 | 19°19 | |
| T 14 | 3 53 45 | 27°31'08 | 3♄56 | 18°30 | 13° 4 | 22°19 | 18°51 | 28°47 | 16°31 | 2°33 | 16°12 | 11°18 | 10°19 | 20°39 | 19°26 | |
| F 15 | 3 57 41 | 28°32'06 | 17° 4 | 19°34 | 13°53 | 23° 5 | 18°48 | 28°53 | 16°28 | 2°35 | 16°14 | 11°18 | 10°15 | 20°45 | 19°34 | |
| S 16 | 4 1 38 | 29°33'06 | 29°53 | 20°34 | 14°42 | 23°51 | 18°45 | 29° 0 | 16°26 | 2°36 | 16°16 | 11°20 | 10°12 | 20°52 | 19°41 | |
| S 17 | 4 5 34 | 0♂34'06 | 12♁25 | 21°29 | 15°29 | 24°37 | 18°42 | 29° 6 | 16°23 | 2°37 | 16°18 | 11°21 | 10° 9 | 20°59 | 19°48 | |
| M18 | 4 9 31 | 1°35'08 | 24°44 | 22°19 | 16°16 | 25°23 | 18°39 | 29°13 | 16°21 | 2°38 | 16°21 | 11°23 | 10° 6 | 21° 5 | 19°56 | |
| T 19 | 4 13 27 | 2°36'11 | 6♌52 | 23° 3 | 17° 1 | 26°10 | 18°35 | 29°19 | 16°18 | 2°40 | 16°23 | 11°R23 | 10° 3 | 21°12 | 20° 3 | |
| W20 | 4 17 24 | 3°37'14 | 18°53 | 23°40 | 17°46 | 26°56 | 18°31 | 29°26 | 16°16 | 2°41 | 16°25 | 11°23 | 10° 0 | 21°19 | 20°10 | |
| T 21 | 4 21 20 | 4°38'19 | 0♂47 | 24°10 | 18°30 | 27°42 | 18°27 | 29°32 | 16°14 | 2°42 | 16°27 | 11°22 | 9°56 | 21°25 | 20°17 | |
| F 22 | 4 25 17 | 5°39'25 | 12°39 | 24°31 | 19°12 | 28°29 | 18°23 | 29°39 | 16°11 | 2°44 | 16°29 | 11°19 | 9°53 | 21°32 | 20°24 | |
| S 23 | 4 29 14 | 6°40'31 | 24°28 | 24°43 | 19°54 | 29°15 | 18°19 | 29°46 | 16° 9 | 2°45 | 16°31 | 11°15 | 9°50 | 21°39 | 20°31 | |
| S 24 | 4 33 10 | 7°41'38 | 6♄18 | 24°R45 | 20°34 | 0♁ 2 | 18°14 | 29°53 | 16° 7 | 2°47 | 16°34 | 11°11 | 9°47 | 21°45 | 20°38 | |
| M25 | 4 37 7 | 8°42'46 | 18° 9 | 24°36 | 21°13 | 0°48 | 18°10 | 29°59 | 16° 4 | 2°48 | 16°36 | 11° 6 | 9°44 | 21°52 | 20°45 | |
| T 26 | 4 41 3 | 9°43'54 | 0♁ 6 | 24°15 | 21°51 | 1°35 | 18° 5 | 0♁ 6 | 16° 2 | 2°50 | 16°38 | 11° 1 | 9°40 | 21°59 | 20°51 | |
| W27 | 4 45 0 | 10°45'02 | 12°10 | 23°43 | 22°27 | 2°21 | 18° 0 | 0°13 | 16° 0 | 2°51 | 16°40 | 10°56 | 9°37 | 22° 5 | 20°58 | |
| T 28 | 4 48 56 | 11°46'11 | 24°26 | 22°59 | 23° 3 | 3° 8 | 17°55 | 0°20 | 15°58 | 2°53 | 16°42 | 10°54 | 9°34 | 22°12 | 21° 5 | |
| F 29 | 4 52 53 | 12°47'20 | 6♁56 | 22° 5 | 23°36 | 3°55 | 17°49 | 0°27 | 15°55 | 2°55 | 16°44 | 10°52 | 9°31 | 22°19 | 21°11 | |
| S 30 | 4 56 49 | 13°48'29 | 19♁46 | 21♂ 0 | 24♁ 8 | 4♁41 | 17♁44 | 0♁34 | 15♁53 | 2♁56 | 16♁47 | 10°D52 | 9♁28 | 22♁25 | 21♁18 | |

Delta T = 24m49s

Julian Calendar 1 Nov. 1017 == Greg. Calendar 7 Nov. 1017

DECEMBER 1017 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|--------|--------|-------|--------|------|--------|------|-------|--------|------|-------|-------|---|
| S 1 | 5 0 46 | 14♌49'38 | 3♌0 | 19°R48 | 24♁39 | 5♁28 | 17°R38 | 0♁41 | 15°R51 | 2♁58 | 16♁49 | 10♁53 | 9♁25 | 22♁32 | 21♁24 | |
| M 2 | 5 4 43 | 15°50'48 | 16°39 | 18♂29 | 25° 8 | 6°15 | 17♁32 | 0°47 | 15♁49 | 2°59 | 16°51 | 10°55 | 9°21 | 22°39 | 21°30 | |
| T 3 | 5 8 39 | 16°51'57 | 0♁46 | 17° 8 | 25°35 | 7° 2 | 17°26 | 0°54 | 15°47 | 3° 1 | 16°53 | 10°56 | 9°18 | 22°45 | 21°36 | |
| W 4 | 5 12 36 | 17°53'07 | 15°19 | 15°45 | 26° 1 | 7°48 | 17°20 | 1° 1 | 15°45 | 3° 3 | 16°55 | 10°R56 | 9°15 | 22°52 | 21°43 | |
| T 5 | 5 16 32 | 18°54'17 | 0♁16 | 14°25 | 26°25 | 8°35 | 17°14 | 1° 8 | 15°43 | 3° 5 | 16°58 | 10°55 | 9°12 | 22°59 | 21°49 | |
| F 6 | 5 20 29 | 19°55'27 | 15°29 | 13° 9 | 26°47 | 9°22 | 17° 8 | 1°15 | 15°41 | 3° 6 | 17° 0 | 10°52 | 9° 9 | 23° 6 | 21°55 | |
| S 7 | 5 24 25 | 20°56'37 | 0♁48 | 12° 0 | 27° 7 | 10° 9 | 17° 1 | 1°22 | 15°39 | 3° 8 | 17° 2 | 10°47 | 9° 6 | 23°12 | 22° 1 | |
| S 8 | 5 28 22 | 21°57'48 | 16° 3 | 11° 0 | 27°25 | 10°56 | 16°54 | 1°29 | 15°37 | 3°10 | 17° 4 | 10°40 | 9° 2 | 23°19 | 22° 6 | |
| M 9 | 5 32 18 | 22°58'59 | 1♌ 2 | 10° 9 | 27°40 | 11°43 | 16°48 | 1°36 | 15°35 | 3°12 | 17° 6 | 10°34 | 8°59 | 23°26 | 22°12 | |
| T 10 | 5 36 15 | 24° 0'10 | 15°38 | 9°29 | 27°54 | 12°30 | 16°41 | 1°43 | 15°34 | 3°14 | 17° 9 | 10°28 | 8°56 | 23°32 | 22°18 | |
| W11 | 5 40 12 | 25° 1'22 | 29°46 | 8°59 | 28° 6 | 13°17 | 16°34 | 1°51 | 15°32 | 3°16 | 17°11 | 10°23 | 8°53 | 23°39 | 22°23 | |
| T 12 | 5 44 8 | 26° 2'33 | 13♄25 | 8°39 | 28°15 | 14° 4 | 16°27 | 1°58 | 15°30 | 3°17 | 17°13 | 10°20 | 8°50 | 23°46 | 22°29 | |
| F 13 | 5 48 5 | 27° 3'45 | 26°35 | 8°29 | 28°22 | 14°51 | 16°20 | 2° 5 | 15°28 | 3°19 | 17°15 | 10°D19 | 8°46 | 23°52 | 22°34 | |
| S 14 | 5 52 1 | 28° 4'58 | 9♁21 | 8°D29 | 28°27 | 15°38 | 16°12 | 2°12 | 15°27 | 3°21 | 17°17 | 10°20 | 8°43 | 23°59 | 22°40 | |
| S 15 | 5 55 58 | 29° 6'10 | 21°47 | 8°38 | 28°R29 | 16°25 | 16° 5 | 2°19 | 15°25 | 3°23 | 17°20 | 10°21 | 8°40 | 24° 6 | 22°45 | |
| M16 | 5 59 54 | 0♁ 7'23 | 3♌57 | 8°54 | 28°29 | 17°13 | 15°57 | 2°26 | 15°23 | 3°25 | 17°22 | 10°22 | 8°37 | 24°12 | 22°50 | |
| T 17 | 6 3 51 | 1° 8'36 | 15°56 | 9°18 | 28°26 | 18° 0 | 15°50 | 2°33 | 15°22 | 3°27 | 17°24 | 10°R22 | 8°34 | 24°19 | 22°55 | |
| W18 | 6 7 47 | 2° 9'48 | 27°49 | 9°49 | 28°21 | 18°47 | 15°42 | 2°40 | 15°20 | 3°29 | 17°26 | 10°20 | 8°31 | 24°26 | 23° 0 | |
| T 19 | 6 11 44 | 3°11'01 | 9♁38 | 10°26 | 28°14 | 19°34 | 15°35 | 2°47 | 15°19 | 3°31 | 17°28 | 10°16 | 8°27 | 24°32 | 23° 5 | |
| F 20 | 6 15 41 | 4°12'14 | 21°27 | 11° 8 | 28° 4 | 20°22 | 15°27 | 2°54 | 15°17 | 3°33 | 17°30 | 10° 9 | 8°24 | 24°39 | 23°10 | |
| S 21 | 6 19 37 | 5°13'26 | 3♁17 | 11°55 | 27°51 | 21° 9 | 15°19 | 3° 1 | 15°16 | 3°35 | 17°32 | 10° 0 | 8°21 | 24°46 | 23°15 | |
| S 22 | 6 23 34 | 6°14'38 | 15°10 | 12°46 | 27°36 | 21°56 | 15°11 | 3° 9 | 15°15 | 3°37 | 17°35 | 9°49 | 8°18 | 24°52 | 23°19 | |
| M23 | 6 27 30 | 7°15'50 | 27° 8 | 13°41 | 27°19 | 22°43 | 15° 3 | 3°16 | 15°13 | 3°39 | 17°37 | 9°37 | 8°15 | 24°59 | 23°24 | |
| T 24 | 6 31 27 | 8°17'01 | 9♁12 | 14°39 | 26°59 | 23°31 | 14°55 | 3°23 | 15°12 | 3°42 | 17°39 | 9°25 | 8°12 | 25° 6 | 23°28 | |
| W25 | 6 35 23 | 9°18'11 | 21°24 | 15°41 | 26°36 | 24°18 | 14°47 | 3°30 | 15°11 | 3°44 | 17°41 | 9°15 | 8° 8 | 25°13 | 23°32 | |
| T 26 | 6 39 20 | 10°19'21 | 3♁45 | 16°45 | 26°12 | 25° 5 | 14°39 | 3°37 | 15°10 | 3°46 | 17°43 | 9° 7 | 8° 5 | 25°19 | 23°37 | |
| F 27 | 6 43 17 | 11°20'29 | 16°17 | 17°52 | 25°45 | 25°53 | 14°31 | 3°44 | 15° 9 | 3°48 | 17°45 | 9° 1 | 8° 2 | 25°26 | 23°41 | |
| S 28 | 6 47 13 | 12°21'37 | 29° 5 | 19° 1 | 25°17 | 26°40 | 14°23 | 3°51 | 15° 8 | 3°50 | 17°47 | 8°58 | 7°59 | 25°33 | 23°45 | |
| S 29 | 6 51 10 | 13°22'44 | 12♌12 | 20°12 | 24°47 | 27°28 | 14°15 | 3°58 | 15° 7 | 3°52 | 17°49 | 8°D57 | 7°56 | 25°39 | 23°49 | |
| M30 | 6 55 6 | 14°23'51 | 25°39 | 21°26 | 24°15 | 28°15 | 14° 7 | 4° 5 | 15° 6 | 3°54 | 17°51 | 8°57 | 7°52 | 25°46 | 23°52 | |
| T 31 | 6 59 3 | 15♁24'56 | 9♁31 | 22♁40 | 23♁41 | 29♁ 2 | 13♁59 | 4♁12 | 15♁ 5 | 3♁57 | 17♁53 | 8°R58 | 7♁49 | 25♁53 | 23♁56 | |

Delta T = 24m49s

Julian Calendar

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