

SWISS EPHEMERIS for the year 2015

JANUARY 2015

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|----------|---------|--------|-------|--------|--------|-------|--------|-------|--------|--------|--------|-------|--------|
| T 1 | 6 41 19 | 10°13'50 | 20°37 | 23°39 | 26°43 | 21°3 | 21°R46 | 0°52 | 12°37 | 5°23 | 13°10 | 15°R26 | 14°56 | 3°48 | 13°46 |
| F 2 | 6 45 16 | 11°14'58 | 3°II44 | 25°14 | 27°58 | 21°50 | 21°Q41 | 0°58 | 12°37 | 5°25 | 13°12 | 15°Q20 | 14°53 | 3°54 | 13°49 |
| S 3 | 6 49 13 | 12°16'06 | 16°39 | 26°49 | 29°14 | 22°37 | 21°36 | 1° 4 | 12°38 | 5°26 | 13°14 | 15°10 | 14°50 | 4° 1 | 13°51 |
| S 4 | 6 53 9 | 13°17'14 | 29°24 | 28°23 | 0°29 | 23°24 | 21°32 | 1°10 | 12°39 | 5°28 | 13°16 | 14°57 | 14°47 | 4° 8 | 13°53 |
| M 5 | 6 57 6 | 14°18'22 | 11°59 | 29°56 | 1°44 | 24°11 | 21°27 | 1°16 | 12°39 | 5°29 | 13°18 | 14°43 | 14°44 | 4°14 | 13°55 |
| T 6 | 7 1 2 | 15°19'30 | 24°22 | 1°27 | 2°59 | 24°58 | 21°21 | 1°22 | 12°40 | 5°31 | 13°20 | 14°28 | 14°40 | 4°21 | 13°57 |
| W 7 | 7 4 59 | 16°20'38 | 6°Q34 | 2°58 | 4°14 | 25°45 | 21°16 | 1°27 | 12°41 | 5°32 | 13°22 | 14°15 | 14°37 | 4°28 | 14° 0 |
| T 8 | 7 8 55 | 17°21'46 | 18°36 | 4°27 | 5°29 | 26°32 | 21°11 | 1°33 | 12°42 | 5°34 | 13°25 | 14° 3 | 14°34 | 4°34 | 14° 2 |
| F 9 | 7 12 52 | 18°22'54 | 0°II31 | 5°54 | 6°44 | 27°19 | 21° 5 | 1°39 | 12°43 | 5°36 | 13°27 | 13°53 | 14°31 | 4°41 | 14° 4 |
| S 10 | 7 16 48 | 19°24'02 | 12°20 | 7°18 | 7°59 | 28° 6 | 20°59 | 1°44 | 12°44 | 5°37 | 13°29 | 13°47 | 14°28 | 4°48 | 14° 7 |
| S 11 | 7 20 45 | 20°25'10 | 24° 7 | 8°39 | 9°14 | 28°53 | 20°53 | 1°50 | 12°45 | 5°39 | 13°31 | 13°43 | 14°25 | 4°54 | 14° 9 |
| M 12 | 7 24 42 | 21°26'17 | 5°Q58 | 9°57 | 10°30 | 29°40 | 20°47 | 1°55 | 12°46 | 5°41 | 13°33 | 13°42 | 14°21 | 5° 1 | 14°12 |
| T 13 | 7 28 38 | 22°27'25 | 17°56 | 11°11 | 11°45 | 0°X27 | 20°41 | 2° 1 | 12°47 | 5°43 | 13°35 | 13°42 | 14°18 | 5° 8 | 14°15 |
| W 14 | 7 32 35 | 23°28'33 | 0°II 8 | 12°20 | 13° 0 | 1°14 | 20°35 | 2° 6 | 12°48 | 5°44 | 13°37 | 13°42 | 14°15 | 5°14 | 14°17 |
| T 15 | 7 36 31 | 24°29'40 | 12°40 | 13°24 | 14°15 | 2° 1 | 20°28 | 2°11 | 12°49 | 5°46 | 13°39 | 13°41 | 14°12 | 5°21 | 14°20 |
| F 16 | 7 40 28 | 25°30'48 | 25°35 | 14°21 | 15°30 | 2°48 | 20°22 | 2°17 | 12°50 | 5°48 | 13°41 | 13°37 | 14° 9 | 5°28 | 14°23 |
| S 17 | 7 44 24 | 26°31'55 | 8°X58 | 15°11 | 16°45 | 3°35 | 20°15 | 2°22 | 12°52 | 5°50 | 13°43 | 13°31 | 14° 5 | 5°34 | 14°25 |
| S 18 | 7 48 21 | 27°33'02 | 22°51 | 15°53 | 18° 0 | 4°21 | 20° 8 | 2°27 | 12°53 | 5°52 | 13°45 | 13°23 | 14° 2 | 5°41 | 14°28 |
| M 19 | 7 52 17 | 28°34'09 | 7°Q11 | 16°26 | 19°14 | 5° 8 | 20° 1 | 2°32 | 12°54 | 5°54 | 13°47 | 13°12 | 13°59 | 5°48 | 14°31 |
| T 20 | 7 56 14 | 29°35'15 | 21°55 | 16°50 | 20°29 | 5°55 | 19°54 | 2°37 | 12°56 | 5°56 | 13°49 | 13° 1 | 13°56 | 5°54 | 14°34 |
| W 21 | 8 0 11 | 0°36'21 | 6°Q54 | 17° 3 | 21°44 | 6°42 | 19°47 | 2°42 | 12°57 | 5°58 | 13°51 | 12°49 | 13°53 | 6° 1 | 14°37 |
| T 22 | 8 4 7 | 1°37'26 | 21°59 | 17°R 5 | 22°59 | 7°29 | 19°40 | 2°46 | 12°59 | 5°59 | 13°53 | 12°40 | 13°50 | 6° 8 | 14°40 |
| F 23 | 8 8 4 | 2°38'30 | 6°X59 | 16°55 | 24°14 | 8°16 | 19°33 | 2°51 | 13° 0 | 6° 1 | 13°55 | 12°33 | 13°46 | 6°14 | 14°43 |
| S 24 | 8 12 0 | 3°39'33 | 21°48 | 16°34 | 25°29 | 9° 3 | 19°25 | 2°56 | 13° 2 | 6° 3 | 13°57 | 12°29 | 13°43 | 6°21 | 14°46 |
| S 25 | 8 15 57 | 4°40'35 | 6°Y17 | 16° 1 | 26°44 | 9°50 | 19°18 | 3° 0 | 13° 4 | 6° 5 | 13°59 | 12°D27 | 13°40 | 6°28 | 14°49 |
| M 26 | 8 19 53 | 5°41'37 | 20°25 | 15°18 | 27°59 | 10°37 | 19°10 | 3° 5 | 13° 6 | 6° 7 | 14° 1 | 12°27 | 13°37 | 6°35 | 14°52 |
| T 27 | 8 23 50 | 6°42'37 | 4°Q12 | 14°25 | 29°13 | 11°23 | 19° 3 | 3° 9 | 13° 7 | 6° 9 | 14° 3 | 12°R28 | 13°34 | 6°41 | 14°55 |
| W 28 | 8 27 46 | 7°43'36 | 17°38 | 13°23 | 0°X28 | 12°10 | 18°55 | 3°14 | 13° 9 | 6°12 | 14° 5 | 12°27 | 13°31 | 6°48 | 14°58 |
| T 29 | 8 31 43 | 8°44'33 | 0°II45 | 12°15 | 1°43 | 12°57 | 18°47 | 3°18 | 13°11 | 6°14 | 14° 7 | 12°25 | 13°27 | 6°55 | 15° 1 |
| F 30 | 8 35 40 | 9°45'30 | 13°38 | 11° 3 | 2°57 | 13°44 | 18°39 | 3°22 | 13°13 | 6°16 | 14° 9 | 12°20 | 13°24 | 7° 1 | 15° 4 |
| S 31 | 8 39 36 | 10°46'26 | 26°II16 | 9°Q48 | 4°X12 | 14°X30 | 18°Q32 | 3°X26 | 13°Y15 | 6°X18 | 14°Q11 | 12°Q12 | 13°Q21 | 7°Q 8 | 15°X 7 |

Delta T = 67.90 sec.

FEBRUARY 2015

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|---------|--------|-------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|
| S 1 | 8 43 33 | 11°47'20 | 8°Q44 | 8°R34 | 5°X27 | 15°X17 | 18°R24 | 3°X30 | 13°Y17 | 6°X20 | 14°Q13 | 12°R 3 | 13°Q18 | 7°Q15 | 15°X11 |
| M 2 | 8 47 29 | 12°48'13 | 21° 2 | 7°Q21 | 6°41 | 16° 4 | 18°Q16 | 3°34 | 13°19 | 6°22 | 14°15 | 11°Q51 | 13°15 | 7°21 | 15°14 |
| T 3 | 8 51 26 | 13°49'05 | 3°Q11 | 6°12 | 7°56 | 16°50 | 18° 8 | 3°38 | 13°21 | 6°24 | 14°17 | 11°40 | 13°11 | 7°28 | 15°17 |
| W 4 | 8 55 22 | 14°49'56 | 15°13 | 5° 9 | 9°10 | 17°37 | 18° 0 | 3°42 | 13°23 | 6°26 | 14°19 | 11°28 | 13° 8 | 7°35 | 15°20 |
| T 5 | 8 59 19 | 15°50'45 | 27° 9 | 4°12 | 10°25 | 18°24 | 17°52 | 3°45 | 13°25 | 6°28 | 14°21 | 11°19 | 13° 5 | 7°41 | 15°24 |
| F 6 | 9 3 15 | 16°51'34 | 9°Q 0 | 3°23 | 11°39 | 19°10 | 17°44 | 3°49 | 13°27 | 6°31 | 14°22 | 11°11 | 13° 2 | 7°48 | 15°27 |
| S 7 | 9 7 12 | 17°52'21 | 20°48 | 2°42 | 12°54 | 19°57 | 17°36 | 3°53 | 13°30 | 6°33 | 14°24 | 11° 7 | 12°59 | 7°55 | 15°31 |
| S 8 | 9 11 9 | 18°53'07 | 2°Q36 | 2° 9 | 14° 8 | 20°43 | 17°28 | 3°56 | 13°32 | 6°35 | 14°26 | 11° 4 | 12°56 | 8° 1 | 15°34 |
| M 9 | 9 15 5 | 19°53'53 | 14°27 | 1°44 | 15°23 | 21°30 | 17°20 | 3°59 | 13°34 | 6°37 | 14°28 | 11°D 4 | 12°52 | 8° 8 | 15°37 |
| T 10 | 9 19 2 | 20°54'37 | 26°26 | 1°28 | 16°37 | 22°16 | 17°12 | 4° 3 | 13°36 | 6°39 | 14°30 | 11° 5 | 12°49 | 8°15 | 15°41 |
| W 11 | 9 22 58 | 21°55'20 | 8°Q36 | 1°19 | 17°51 | 23° 3 | 17° 4 | 4° 6 | 13°39 | 6°42 | 14°31 | 11° 6 | 12°46 | 8°21 | 15°44 |
| T 12 | 9 26 55 | 22°56'02 | 21° 4 | 1°D19 | 19° 5 | 23°49 | 16°56 | 4° 9 | 13°41 | 6°44 | 14°33 | 11°R 7 | 12°43 | 8°28 | 15°48 |
| F 13 | 9 30 51 | 23°56'43 | 3°X54 | 1°25 | 20°20 | 24°36 | 16°48 | 4°12 | 13°44 | 6°46 | 14°35 | 11° 6 | 12°40 | 8°35 | 15°51 |
| S 14 | 9 34 48 | 24°57'23 | 17°11 | 1°38 | 21°34 | 25°22 | 16°41 | 4°15 | 13°46 | 6°48 | 14°36 | 11° 4 | 12°37 | 8°41 | 15°55 |
| S 15 | 9 38 44 | 25°58'02 | 0°Q56 | 1°57 | 22°48 | 26° 8 | 16°33 | 4°17 | 13°49 | 6°50 | 14°38 | 11° 0 | 12°33 | 8°48 | 15°58 |
| M 16 | 9 42 41 | 26°58'40 | 15°10 | 2°21 | 24° 2 | 26°55 | 16°25 | 4°20 | 13°51 | 6°53 | 14°40 | 10°54 | 12°30 | 8°55 | 16° 2 |
| T 17 | 9 46 38 | 27°59'17 | 29°52 | 2°51 | 25°16 | 27°41 | 16°17 | 4°23 | 13°54 | 6°55 | 14°41 | 10°47 | 12°27 | 9° 1 | 16° 6 |
| W 18 | 9 50 34 | 28°59'52 | 14°Q54 | 3°26 | 26°30 | 28°27 | 16°10 | 4°25 | 13°57 | 6°57 | 14°43 | 10°40 | 12°24 | 9° 8 | 16° 9 |
| T 19 | 9 54 31 | 0°X 0'26 | 0°X 8 | 4° 6 | 27°44 | 29°13 | 16° 2 | 4°28 | 13°59 | 7° 0 | 14°45 | 10°34 | 12°21 | 9°15 | 16°13 |
| F 20 | 9 58 27 | 1° 0'58 | 15°23 | 4°49 | 28°58 | 0°Y 0 | 15°55 | 4°30 | 14° 2 | 7° 2 | 14°46 | 10°30 | 12°17 | 9°21 | 16°16 |
| S 21 | 10 2 24 | 2° 1'28 | 0°Y29 | 5°37 | 0°Y12 | 0°46 | 15°47 | 4°32 | 14° 5 | 7° 4 | 14°48 | 10°28 | 12°14 | 9°28 | 16°20 |
| S 22 | 10 6 20 | 3° 1'57 | 15°18 | 6°27 | 1°26 | 1°32 | 15°40 | 4°34 | 14° 7 | 7° 6 | 14°49 | 10°D28 | 12°11 | 9°35 | 16°24 |
| M 23 | 10 10 17 | 4° 2'24 | 29°43 | 7°22 | 2°40 | 2°18 | 15°33 | 4°36 | 14°10 | 7° 9 | 14°51 | 10°29 | 12° 8 | 9°41 | 16°27 |
| T 24 | 10 14 13 | 5° 2'49 | 13°Q43 | 8°19 | 3°53 | 3° 4 | 15°25 | 4°38 | 14°13 | 7°11 | 14°52 | 10°30 | 12° 5 | 9°48 | 16°31 |
| W 25 | 10 18 10 | 6° 3'12 | 27°17 | 9°19 | 5° 7 | 3°50 | 15°18 | 4°40 | 14°16 | 7°13 | 14°54 | 10°32 | 12° 2 | 9°55 | 16°35 |
| T 26 | 10 22 7 | 7° 3'33 | 10°II27 | 10°21 | 6°21 | 4°36 | 15°11 | 4°42 | 14°19 | 7°15 | 14°55 | 10°R32 | 11°58 | 10° 1 | 16°38 |
| F 27 | 10 26 3 | 8° 3'52 | 23°16 | 11°26 | 7°34 | 5°22 | 15° 5 | 4°43 | 14°22 | 7°18 | 14°57 | 10°31 | 11°55 | 10° 8 | 16°42 |
| S 28 | 10 30 0 | 9°X 4'09 | 5°Q48 | 12°Q33 | 8°Y48 | 6°Y 8 | 14°Q58 | 4°X45 | 14°Y25 | 7°X20 | 14°Q58 | 10°Q28 | 11°Q52 | 10°Q15 | 16°X46 |

Delta T = 67.94 sec.

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SWISS EPHEMERIS for the year 2015

MARCH 2015

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|---------|---------|---------|---------|----------|---------|--------|---------|--------|---------|---------|---------|---------|---------|
| S 1 | 10 33 56 | 10°42'5 | 18°56'6 | 13°44'2 | 10°17'1 | 6°15'4 | 14°51'5 | 4°47'4 | 14°27'2 | 7°22'2 | 14°59'5 | 10°24'2 | 11°49'4 | 10°21'2 | 16°49'4 |
| M 2 | 10 37 53 | 11°43'8 | 0°12'13 | 14°54'4 | 11°15'5 | 7°40'0 | 14°45'4 | 4°48'0 | 14°30'0 | 7°25'0 | 15°1'0 | 10°19'4 | 11°46'0 | 10°28'0 | 16°53'0 |
| T 3 | 10 41 49 | 12°44'9 | 12°12'1 | 16°7'7 | 12°28'8 | 8°25'0 | 14°38'0 | 4°49'0 | 14°33'0 | 7°27'0 | 15°2'0 | 10°14'0 | 11°43'0 | 10°35'0 | 16°57'0 |
| W 4 | 10 45 46 | 13°45'8 | 24°6'6 | 17°22'2 | 13°42'9 | 9°11'0 | 14°32'0 | 4°50'0 | 14°36'0 | 7°29'0 | 15°3'0 | 10°9'0 | 11°39'0 | 10°41'0 | 17°1'0 |
| T 5 | 10 49 42 | 14°50'6 | 5°17'56 | 18°38'8 | 14°55'9 | 9°57'0 | 14°26'0 | 4°51'0 | 14°40'0 | 7°31'0 | 15°5'0 | 10°5'0 | 11°36'0 | 10°48'0 | 17°4'0 |
| F 6 | 10 53 39 | 15°51'1 | 17°45'5 | 19°57'7 | 16°8'8 | 10°42'0 | 14°20'0 | 4°52'0 | 14°43'0 | 7°34'0 | 15°6'0 | 10°2'0 | 11°33'0 | 10°55'0 | 17°8'0 |
| S 7 | 10 57 35 | 16°51'5 | 29°34'4 | 21°17'2 | 17°21'1 | 11°28'0 | 14°14'0 | 4°53'0 | 14°46'0 | 7°36'0 | 15°7'0 | 10°0'0 | 11°30'0 | 11°1'0 | 17°12'0 |
| S 8 | 11 1 32 | 17°51'7 | 11°26'6 | 22°38'8 | 18°34'4 | 12°14'0 | 14°8'0 | 4°54'0 | 14°49'0 | 7°38'0 | 15°8'0 | 10°D 0 | 11°27'0 | 11°8'0 | 17°15'0 |
| M 9 | 11 5 29 | 18°51'7 | 23°24'4 | 24°1'1 | 19°47'7 | 12°59'0 | 14°3'0 | 4°54'0 | 14°52'0 | 7°40'0 | 15°10'0 | 10°0'0 | 11°23'0 | 11°15'0 | 17°19'0 |
| T 10 | 11 9 25 | 19°51'5 | 5°17'29 | 25°25'0 | 21°0'0 | 13°45'0 | 13°57'0 | 4°55'0 | 14°55'0 | 7°43'0 | 15°11'0 | 10°2'0 | 11°20'0 | 11°21'0 | 17°23'0 |
| W 11 | 11 13 22 | 20°51'2 | 17°45'0 | 26°50'0 | 22°13'0 | 14°30'0 | 13°52'0 | 4°55'0 | 14°58'0 | 7°45'0 | 15°12'0 | 10°3'0 | 11°17'0 | 11°28'0 | 17°27'0 |
| T 12 | 11 17 18 | 21°50'7 | 0°16'16 | 28°17'2 | 23°26'1 | 15°15'0 | 13°47'0 | 4°55'0 | 15°1'0 | 7°47'0 | 15°13'0 | 10°5'0 | 11°14'0 | 11°35'0 | 17°30'0 |
| F 13 | 11 21 15 | 22°50'0 | 13°5'5 | 29°46'2 | 24°39'9 | 16°1'0 | 13°42'0 | 4°56'0 | 15°5'0 | 7°49'0 | 15°14'0 | 10°6'0 | 11°11'0 | 11°41'0 | 17°34'0 |
| S 14 | 11 25 11 | 23°45'2 | 26°16'6 | 1°15'15 | 25°51'0 | 16°46'0 | 13°37'0 | 4°56'0 | 15°8'0 | 7°52'0 | 15°15'0 | 10°R 6 | 11°8'0 | 11°48'0 | 17°38'0 |
| S 15 | 11 29 8 | 24°44'2 | 9°52'5 | 2°46'4 | 27°4'0 | 17°31'0 | 13°33'0 | 4°R56 | 15°11'0 | 7°54'0 | 15°16'0 | 10°5'0 | 11°4'0 | 11°55'0 | 17°42'0 |
| M 16 | 11 33 4 | 25°43'1 | 23°54'4 | 4°18'8 | 28°17'8 | 18°17'0 | 13°28'0 | 4°56'0 | 15°14'0 | 7°56'0 | 15°17'0 | 10°4'0 | 11°1'0 | 12°1'0 | 17°45'0 |
| T 17 | 11 37 1 | 26°41'7 | 8°20'0 | 5°51'0 | 29°29'2 | 19°2'0 | 13°24'0 | 4°56'0 | 15°18'0 | 7°58'0 | 15°18'0 | 10°2'0 | 10°58'0 | 12°8'0 | 17°49'0 |
| W 18 | 11 40 58 | 27°40'2 | 23°9'9 | 7°26'0 | 0°42'9 | 19°47'2 | 13°20'0 | 4°55'0 | 15°21'0 | 8°0'0 | 15°19'0 | 10°1'0 | 10°55'0 | 12°15'0 | 17°53'0 |
| T 19 | 11 44 54 | 28°34'6 | 8°12'2 | 9°2'2 | 1°54'0 | 20°32'0 | 13°16'0 | 4°55'0 | 15°24'0 | 8°3'0 | 15°20'0 | 9°59'0 | 10°52'0 | 12°21'0 | 17°56'0 |
| F 20 | 11 48 51 | 29°32'7 | 23°23'3 | 10°39'3 | 3°6'6 | 21°17'0 | 13°12'0 | 4°54'0 | 15°28'0 | 8°5'0 | 15°21'0 | 9°58'0 | 10°48'0 | 12°28'0 | 18°0'0 |
| S 21 | 11 52 47 | 0°17'30 | 8°17'31 | 12°17'7 | 4°18'8 | 22°2'0 | 13°8'0 | 4°54'0 | 15°31'0 | 8°7'0 | 15°21'0 | 9°D58 | 10°45'0 | 12°35'0 | 18°4'0 |
| S 22 | 11 56 44 | 1°24'3 | 23°27'7 | 13°57'5 | 5°31'0 | 22°47'0 | 13°5'0 | 4°53'0 | 15°34'0 | 8°9'0 | 15°22'0 | 9°58'0 | 10°42'0 | 12°41'0 | 18°7'0 |
| M 23 | 12 0 40 | 2°21'8 | 8°14'4 | 15°38'8 | 6°43'0 | 23°32'0 | 13°2'0 | 4°52'0 | 15°38'0 | 8°11'0 | 15°23'0 | 9°59'0 | 10°39'0 | 12°48'0 | 18°11'0 |
| T 24 | 12 4 37 | 3°15'1 | 22°17'0 | 17°20'7 | 7°55'5 | 24°17'0 | 12°59'0 | 4°51'0 | 15°41'0 | 8°13'0 | 15°24'0 | 9°59'0 | 10°36'0 | 12°55'0 | 18°15'0 |
| W 25 | 12 8 33 | 4°12'2 | 6°11'2 | 19°4'4 | 9°6'6 | 25°2'0 | 12°56'0 | 4°50'0 | 15°44'0 | 8°15'0 | 15°25'0 | 10°0'0 | 10°33'0 | 13°1'0 | 18°18'0 |
| T 26 | 12 12 30 | 5°05'0 | 19°21'0 | 20°48'8 | 10°18'8 | 25°46'0 | 12°53'0 | 4°49'0 | 15°48'0 | 8°17'0 | 15°25'0 | 10°0'0 | 10°29'0 | 13°8'0 | 18°22'0 |
| F 27 | 12 16 27 | 6°01'6 | 22°34'5 | 22°34'5 | 11°30'0 | 26°31'0 | 12°51'0 | 4°48'0 | 15°51'0 | 8°20'0 | 15°26'0 | 10°R 1 | 10°26'0 | 13°14'0 | 18°25'0 |
| S 28 | 12 20 23 | 6°59'40 | 14°48'8 | 24°22'2 | 12°42'2 | 27°16'0 | 12°48'0 | 4°47'0 | 15°55'0 | 8°22'0 | 15°27'0 | 10°1'0 | 10°23'0 | 13°21'0 | 18°29'0 |
| S 29 | 12 24 20 | 7°59'02 | 27°4'4 | 26°10'0 | 13°53'3 | 28°0'0 | 12°46'0 | 4°45'0 | 15°58'0 | 8°24'0 | 15°27'0 | 10°0'0 | 10°20'0 | 13°28'0 | 18°33'0 |
| M 30 | 12 28 16 | 8°58'21 | 9°12'7 | 28°1'0 | 15°5'5 | 28°45'0 | 12°44'0 | 4°44'0 | 16°1'0 | 8°26'0 | 15°28'0 | 10°0'0 | 10°17'0 | 13°34'0 | 18°36'0 |
| T 31 | 12 32 13 | 9°17'37 | 21°12'2 | 29°15'2 | 16°16'6 | 29°17'30 | 12°43'0 | 4°42'0 | 16°1'5 | 8°28'0 | 15°28'0 | 10°D 0 | 10°14'0 | 13°41'0 | 18°40'0 |

Delta T = 67.98 sec.

APRIL 2015

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|----------|---------|---------|----------|---------|---------|---------|---------|----------|---------|----------|----------|----------|
| W 1 | 12 36 9 | 10°56'52 | 2°17'51 | 1°17'45 | 17°8'27 | 0°8'14 | 12°R41 | 4°R41 | 16°17'8 | 8°17'30 | 15°29'29 | 10°10'0 | 10°10'10 | 13°17'48 | 18°43'43 |
| T 2 | 12 40 6 | 11°56'04 | 14°39'9 | 3°39'0 | 18°39'0 | 0°58'0 | 12°40'0 | 4°17'39 | 16°12'0 | 8°32'0 | 15°29'0 | 10°0'0 | 10°7'0 | 13°54'0 | 18°47'0 |
| F 3 | 12 44 2 | 12°55'14 | 26°29'9 | 5°34'0 | 19°50'0 | 1°43'0 | 12°39'0 | 4°37'0 | 16°15'0 | 8°34'0 | 15°30'0 | 10°1'0 | 10°4'0 | 14°1'0 | 18°50'0 |
| S 4 | 12 47 59 | 13°54'22 | 8°22'2 | 7°31'0 | 21°1'0 | 2°27'0 | 12°38'0 | 4°35'0 | 16°18'0 | 8°36'0 | 15°30'0 | 10°R 1 | 10°1'0 | 14°8'0 | 18°54'0 |
| S 5 | 12 51 55 | 14°53'28 | 20°22'2 | 9°29'0 | 22°12'0 | 3°11'0 | 12°37'0 | 4°33'0 | 16°22'0 | 8°38'0 | 15°30'0 | 10°1'0 | 9°58'0 | 14°14'0 | 18°57'0 |
| M 6 | 12 55 52 | 15°52'32 | 2°17'30 | 11°29'0 | 23°22'0 | 3°56'0 | 12°36'0 | 4°31'0 | 16°25'0 | 8°39'0 | 15°31'0 | 10°0'0 | 9°54'0 | 14°21'0 | 19°0'0 |
| T 7 | 12 59 49 | 16°51'34 | 14°48'8 | 13°29'0 | 24°33'0 | 4°40'0 | 12°36'0 | 4°29'0 | 16°29'0 | 8°41'0 | 15°31'0 | 10°0'0 | 9°51'0 | 14°28'0 | 19°4'0 |
| W 8 | 13 3 45 | 17°50'34 | 27°18'8 | 15°31'0 | 25°44'0 | 5°24'0 | 12°35'0 | 4°26'0 | 16°32'0 | 8°43'0 | 15°31'0 | 9°59'0 | 9°48'0 | 14°34'0 | 19°7'0 |
| T 9 | 13 7 42 | 18°49'33 | 10°17'1 | 17°34'0 | 26°54'0 | 6°8'0 | 12°D35 | 4°24'0 | 16°36'0 | 8°45'0 | 15°32'0 | 9°57'0 | 9°45'0 | 14°41'0 | 19°10'0 |
| F 10 | 13 11 38 | 19°48'29 | 22°59'9 | 19°38'8 | 28°4'0 | 6°52'0 | 12°36'0 | 4°22'0 | 16°39'0 | 8°47'0 | 15°32'0 | 9°56'0 | 9°42'0 | 14°48'0 | 19°14'0 |
| S 11 | 13 15 35 | 20°47'24 | 6°17'14 | 21°42'0 | 29°15'0 | 7°36'0 | 12°36'0 | 4°19'0 | 16°42'0 | 8°49'0 | 15°32'0 | 9°56'0 | 9°39'0 | 14°54'0 | 19°17'0 |
| S 12 | 13 19 31 | 21°46'17 | 19°47'0 | 23°48'0 | 0°11'25 | 8°20'0 | 12°36'0 | 4°16'0 | 16°46'0 | 8°51'0 | 15°32'0 | 9°D55 | 9°35'0 | 15°1'0 | 19°20'0 |
| M 13 | 13 23 28 | 22°45'09 | 3°33'39 | 25°54'0 | 1°35'9 | 9°4'0 | 12°37'0 | 4°14'0 | 16°49'0 | 8°52'0 | 15°32'0 | 9°55'0 | 9°32'0 | 15°8'0 | 19°24'0 |
| T 14 | 13 27 24 | 23°43'58 | 17°50'0 | 28°0'0 | 2°45'0 | 9°48'0 | 12°38'0 | 4°11'0 | 16°53'0 | 8°54'0 | 15°33'0 | 9°56'0 | 9°29'0 | 15°14'0 | 19°27'0 |
| W 15 | 13 31 21 | 24°42'46 | 2°17'19 | 0°8'6 | 3°55'0 | 10°32'0 | 12°39'0 | 4°8'0 | 16°56'0 | 8°56'0 | 15°33'0 | 9°57'0 | 9°26'0 | 15°21'0 | 19°30'0 |
| T 16 | 13 35 18 | 25°41'32 | 17°1'0 | 2°12'0 | 5°4'0 | 11°15'0 | 12°40'0 | 4°5'0 | 16°59'0 | 8°57'0 | 15°33'0 | 9°58'0 | 9°23'0 | 15°28'0 | 19°33'0 |
| F 17 | 13 39 14 | 26°40'17 | 1°17'52 | 4°18'8 | 6°14'0 | 11°59'0 | 12°42'0 | 4°2'0 | 17°3'0 | 8°59'0 | 15°R33 | 9°59'0 | 9°19'0 | 15°34'0 | 19°36'0 |
| S 18 | 13 43 11 | 27°38'59 | 16°44'4 | 6°22'0 | 7°24'0 | 12°43'0 | 12°44'0 | 3°59'0 | 17°6'0 | 9°1'0 | 15°33'0 | 9°R59 | 9°16'0 | 15°41'0 | 19°39'0 |
| S 19 | 13 47 7 | 28°37'40 | 1°18'31 | 8°26'0 | 8°33'0 | 13°26'0 | 12°45'0 | 3°56'0 | 17°10'0 | 9°2'0 | 15°33'0 | 9°58'0 | 9°13'0 | 15°48'0 | 19°42'0 |
| M 20 | 13 51 4 | 29°36'19 | 16°5'0 | 10°28'0 | 9°42'0 | 14°10'0 | 12°47'0 | 3°53'0 | 17°13'0 | 9°4'0 | 15°33'0 | 9°56'0 | 9°10'0 | 15°54'0 | 19°46'0 |
| T 21 | 13 55 0 | 0°34'56 | 0°11'19 | 12°29'0 | 10°51'0 | 14°53'0 | 12°50'0 | 3°49'0 | 17°16'0 | 9°6'0 | 15°33'0 | 9°54'0 | 9°7'0 | 16°1'0 | 19°49'0 |
| W 22 | 13 58 57 | 1°33'30 | 14°9'0 | 14°27'0 | 12°0'0 | 15°37'0 | 12°52'0 | 3°46'0 | 17°20'0 | 9°7'0 | 15°32'0 | 9°51'0 | 9°4'0 | 16°8'0 | 19°52'0 |
| T 23 | 14 2 53 | 2°32'03 | 27°34'4 | 16°23'0 | 13°9'0 | 16°20'0 | 12°54'0 | 3°43'0 | 17°23'0 | 9°9'0 | 15°32'0 | 9°48'0 | 9°0'0 | 16°14'0 | 19°54'0 |
| F 24 | 14 6 50 | 3°30'34 | 10°34'4 | 18°16'0 | 14°18'0 | 17°4'0 | 12°57'0 | 3°39'0 | 17°26'0 | 9°10'0 | 15°32'0 | 9°45'0 | 8°57'0 | 16°21'0 | 19°57'0 |
| S 25 | 14 10 47 | 4°29'02 | 23°12'2 | 20°6'0 | 15°26'0 | 17°47'0 | 13°0'0 | 3°35'0 | 17°30'0 | 9°12'0 | 15°32'0 | 9°43'0 | 8°54'0 | 16°28'0 | 20°0'0 |
| S 26 | 14 14 43 | 5°27'28 | 5°12'30 | 21°53'0 | 16°35'0 | 18°30'0 | 13°3'0 | 3°32'0 | 17°33'0 | 9°13'0 | 15°32'0 | 9°D43 | 8°51'0 | 16°34'0 | 20°3'0 |
| M 27 | 14 18 40 | 6°25'52 | 17°33'3 | 23°37'0 | 17°43'0 | 19°13'0 | 13°6'0 | 3°28'0 | 17°36'0 | 9°15'0 | 15°31'0 | 9°43'0 | 8°48'0 | 16°41'0 | 20°6'0 |
| T 28 | 14 22 36 | 7°24'14 | 29°27'7 | 25°17'0 | 18°51'0 | 19°56'0 | 13°10'0 | 3°24'0 | 17°40'0 | 9°16'0 | 15°31'0 | 9°45'0 | 8°45'0 | 16°48'0 | 20°9'0 |
| W 29 | 14 26 33 | 8°22'34 | 11°17'16 | 26°53'0 | 19°59'0 | 20°40'0 | 13°13'0 | 3°21'0 | 17°43'0 | 9°18'0 | 15°31'0 | 9°47'0 | 8°41'0 | 16°54'0 | 20°11'0 |
| T 30 | 14 30 29 | 9°20'52 | 23°17'4 | 28°15'2 | 21°11'7 | 21°11'23 | 13°17'0 | 3°17'0 | 17°46'0 | 9°19'0 | 15°30'0 | 9°48'0 | 8°43'0 | 17°17'0 | 20°14'0 |

Delta T = 68.03 sec.

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SWISS EPHEMERIS for the year 2015

MAY 2015

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|--------|-------|------|-------|-------|
| F 1 | 14 34 26 | 10♈19'07 | 4♌56 | 29♈53 | 22♈15 | 22♈6 | 13♈21 | 3♈R13 | 17♈49 | 9♈20 | 15♈R30 | 9♈R49 | 8♈35 | 17♈7 | 20♈17 |
| S 2 | 14 38 22 | 11♈17'21 | 16♌56 | 1♈17 | 23♈22 | 22♈49 | 13♈25 | 3♈9 | 17♈53 | 9♈22 | 15♈29 | 9♈49 | 8♈32 | 17♈14 | 20♈19 |
| S 3 | 14 42 19 | 12♈15'33 | 29♌5 | 2♈36 | 24♈29 | 23♈31 | 13♈29 | 3♈5 | 17♈56 | 9♈23 | 15♈29 | 9♈48 | 8♈29 | 17♈21 | 20♈22 |
| M 4 | 14 46 16 | 13♈13'44 | 11♌27 | 3♈51 | 25♈36 | 24♈14 | 13♈34 | 3♈1 | 17♈59 | 9♈24 | 15♈29 | 9♈44 | 8♈25 | 17♈27 | 20♈25 |
| T 5 | 14 50 12 | 14♈11'52 | 24♌2 | 5♈2 | 26♈43 | 24♈57 | 13♈38 | 2♈57 | 18♈2 | 9♈25 | 15♈28 | 9♈40 | 8♈22 | 17♈34 | 20♈27 |
| W 6 | 14 54 9 | 15♈9'59 | 6♌52 | 6♈8 | 27♈50 | 25♈40 | 13♈43 | 2♈53 | 18♈5 | 9♈27 | 15♈28 | 9♈34 | 8♈19 | 17♈41 | 20♈30 |
| T 7 | 14 58 5 | 16♈8'04 | 19♌55 | 7♈9 | 28♈57 | 26♈23 | 13♈48 | 2♈49 | 18♈8 | 9♈28 | 15♈27 | 9♈28 | 8♈16 | 17♈47 | 20♈32 |
| F 8 | 15 2 2 | 17♈6'08 | 3♌11 | 8♈6 | 0♈3 | 27♈5 | 13♈53 | 2♈44 | 18♈12 | 9♈29 | 15♈26 | 9♈22 | 8♈13 | 17♈54 | 20♈34 |
| S 9 | 15 5 58 | 18♈4'11 | 16♌41 | 8♈58 | 1♈9 | 27♈48 | 13♈58 | 2♈40 | 18♈15 | 9♈30 | 15♈26 | 9♈18 | 8♈10 | 18♈1 | 20♈37 |
| S 10 | 15 9 55 | 19♈2'12 | 0♌22 | 9♈46 | 2♈15 | 28♈30 | 14♈4 | 2♈36 | 18♈18 | 9♈31 | 15♈25 | 9♈14 | 8♈6 | 18♈7 | 20♈39 |
| M 11 | 15 13 51 | 20♈0'11 | 14♌15 | 10♈28 | 3♈21 | 29♈13 | 14♈9 | 2♈32 | 18♈21 | 9♈32 | 15♈24 | 9♈D13 | 8♈3 | 18♈14 | 20♈41 |
| T 12 | 15 17 48 | 20♈58'10 | 28♌18 | 11♈6 | 4♈27 | 29♈55 | 14♈15 | 2♈27 | 18♈24 | 9♈33 | 15♈24 | 9♈13 | 8♈0 | 18♈21 | 20♈44 |
| W 13 | 15 21 45 | 21♈56'07 | 12♌31 | 11♈38 | 5♈32 | 0♈38 | 14♈21 | 2♈23 | 18♈27 | 9♈34 | 15♈23 | 9♈14 | 7♈57 | 18♈27 | 20♈46 |
| T 14 | 15 25 41 | 22♈54'03 | 26♌52 | 12♈6 | 6♈37 | 1♈20 | 14♈27 | 2♈19 | 18♈30 | 9♈35 | 15♈22 | 9♈15 | 7♈54 | 18♈34 | 20♈48 |
| F 15 | 15 29 38 | 23♈51'57 | 11♌18 | 12♈28 | 7♈42 | 2♈2 | 14♈33 | 2♈14 | 18♈33 | 9♈36 | 15♈22 | 9♈R16 | 7♈51 | 18♈41 | 20♈50 |
| S 16 | 15 33 34 | 24♈49'51 | 25♌46 | 12♈46 | 8♈47 | 2♈45 | 14♈39 | 2♈10 | 18♈36 | 9♈37 | 15♈21 | 9♈14 | 7♈47 | 18♈47 | 20♈52 |
| S 17 | 15 37 31 | 25♈47'43 | 10♌11 | 12♈58 | 9♈51 | 3♈27 | 14♈46 | 2♈5 | 18♈39 | 9♈38 | 15♈20 | 9♈11 | 7♈44 | 18♈54 | 20♈54 |
| M 18 | 15 41 27 | 26♈45'33 | 24♌27 | 13♈6 | 10♈56 | 4♈9 | 14♈52 | 2♈1 | 18♈41 | 9♈39 | 15♈19 | 9♈6 | 7♈41 | 19♈1 | 20♈56 |
| T 19 | 15 45 24 | 27♈43'23 | 8♌28 | 13♈R9 | 12♈0 | 4♈51 | 14♈59 | 1♈56 | 18♈44 | 9♈39 | 15♈18 | 8♈59 | 7♈38 | 19♈7 | 20♈58 |
| W 20 | 15 49 20 | 28♈41'11 | 22♌12 | 13♈7 | 13♈4 | 5♈33 | 15♈6 | 1♈52 | 18♈47 | 9♈40 | 15♈17 | 8♈51 | 7♈35 | 19♈14 | 21♈0 |
| T 21 | 15 53 17 | 29♈38'57 | 5♌34 | 13♈0 | 14♈7 | 6♈15 | 15♈13 | 1♈47 | 18♈50 | 9♈41 | 15♈16 | 8♈42 | 7♈31 | 19♈21 | 21♈2 |
| F 22 | 15 57 14 | 0♈36'42 | 18♌34 | 12♈49 | 15♈10 | 6♈57 | 15♈20 | 1♈43 | 18♈53 | 9♈42 | 15♈15 | 8♈35 | 7♈28 | 19♈27 | 21♈3 |
| S 23 | 16 1 10 | 1♈34'25 | 1♌12 | 12♈34 | 16♈13 | 7♈39 | 15♈27 | 1♈39 | 18♈55 | 9♈42 | 15♈14 | 8♈29 | 7♈25 | 19♈34 | 21♈5 |
| S 24 | 16 5 7 | 2♈32'07 | 13♌31 | 12♈15 | 17♈16 | 8♈21 | 15♈34 | 1♈34 | 18♈58 | 9♈43 | 15♈14 | 8♈25 | 7♈22 | 19♈41 | 21♈7 |
| M 25 | 16 9 3 | 3♈29'47 | 25♌35 | 11♈52 | 18♈18 | 9♈3 | 15♈42 | 1♈30 | 19♈1 | 9♈44 | 15♈13 | 8♈23 | 7♈19 | 19♈47 | 21♈8 |
| T 26 | 16 13 0 | 4♈27'26 | 7♌30 | 11♈27 | 19♈20 | 9♈45 | 15♈49 | 1♈25 | 19♈3 | 9♈44 | 15♈11 | 8♈D23 | 7♈16 | 19♈54 | 21♈10 |
| W 27 | 16 16 56 | 5♈25'03 | 19♌19 | 10♈58 | 20♈22 | 10♈26 | 15♈57 | 1♈21 | 19♈6 | 9♈45 | 15♈10 | 8♈23 | 7♈12 | 20♈0 | 21♈12 |
| T 28 | 16 20 53 | 6♈22'39 | 1♌8 | 10♈28 | 21♈24 | 11♈8 | 16♈5 | 1♈16 | 19♈9 | 9♈45 | 15♈9 | 8♈24 | 7♈9 | 20♈7 | 21♈13 |
| F 29 | 16 24 49 | 7♈20'13 | 13♌3 | 9♈55 | 22♈25 | 11♈50 | 16♈13 | 1♈12 | 19♈11 | 9♈46 | 15♈8 | 8♈R24 | 7♈6 | 20♈14 | 21♈14 |
| S 30 | 16 28 46 | 8♈17'46 | 25♌8 | 9♈22 | 23♈26 | 12♈31 | 16♈21 | 1♈7 | 19♈14 | 9♈46 | 15♈7 | 8♈23 | 7♈3 | 20♈20 | 21♈16 |
| S 31 | 16 32 43 | 9♈15'17 | 7♌26 | 8♈48 | 24♈26 | 13♈13 | 16♈29 | 1♈3 | 19♈16 | 9♈47 | 15♈6 | 8♈19 | 7♈0 | 20♈27 | 21♈17 |

Delta T = 68.07 sec.

JUNE 2015

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|------|-------|--------|
| M 1 | 16 36 39 | 10♈12'48 | 20♌1 | 8♈R15 | 25♈26 | 13♈54 | 16♈237 | 0♈R59 | 19♈19 | 9♈47 | 15♈R5 | 8♈R13 | 6♈56 | 20♈34 | 21♈18 |
| T 2 | 16 40 36 | 11♈10'17 | 2♌54 | 7♈42 | 26♈26 | 14♈36 | 16♈46 | 0♈54 | 19♈21 | 9♈47 | 15♈4 | 8♈5 | 6♈53 | 20♈40 | 21♈20 |
| W 3 | 16 44 32 | 12♈7'45 | 16♌4 | 7♈10 | 27♈25 | 15♈17 | 16♈54 | 0♈50 | 19♈23 | 9♈48 | 15♈3 | 7♈55 | 6♈50 | 20♈47 | 21♈21 |
| T 4 | 16 48 29 | 13♈5'12 | 29♌31 | 6♈40 | 28♈24 | 15♈59 | 17♈3 | 0♈45 | 19♈26 | 9♈48 | 15♈1 | 7♈44 | 6♈47 | 20♈54 | 21♈22 |
| F 5 | 16 52 25 | 14♈2'39 | 13♌13 | 6♈12 | 29♈22 | 16♈40 | 17♈12 | 0♈41 | 19♈28 | 9♈48 | 15♈0 | 7♈34 | 6♈44 | 21♈0 | 21♈23 |
| S 6 | 16 56 22 | 15♈0'04 | 27♌5 | 5♈47 | 0♈20 | 17♈21 | 17♈21 | 0♈37 | 19♈30 | 9♈48 | 14♈59 | 7♈25 | 6♈41 | 21♈7 | 21♈24 |
| S 7 | 17 0 18 | 15♈57'29 | 11♌4 | 5♈25 | 1♈18 | 18♈3 | 17♈30 | 0♈33 | 19♈33 | 9♈49 | 14♈58 | 7♈19 | 6♈37 | 21♈14 | 21♈25 |
| M 8 | 17 4 15 | 16♈54'53 | 25♌8 | 5♈7 | 2♈15 | 18♈44 | 17♈39 | 0♈28 | 19♈35 | 9♈49 | 14♈56 | 7♈15 | 6♈34 | 21♈20 | 21♈26 |
| T 9 | 17 8 12 | 17♈52'17 | 9♌15 | 4♈53 | 3♈12 | 19♈25 | 17♈48 | 0♈24 | 19♈37 | 9♈49 | 14♈55 | 7♈13 | 6♈31 | 21♈27 | 21♈27 |
| W 10 | 17 12 8 | 18♈49'40 | 23♌23 | 4♈42 | 4♈8 | 20♈6 | 17♈57 | 0♈20 | 19♈39 | 9♈49 | 14♈54 | 7♈D13 | 6♈28 | 21♈34 | 21♈28 |
| T 11 | 17 16 5 | 19♈47'02 | 7♌31 | 4♈36 | 5♈4 | 20♈47 | 18♈7 | 0♈16 | 19♈41 | 9♈49 | 14♈53 | 7♈R13 | 6♈25 | 21♈40 | 21♈28 |
| F 12 | 17 20 1 | 20♈44'24 | 21♌38 | 4♈D34 | 5♈59 | 21♈28 | 18♈16 | 0♈12 | 19♈43 | 9♈R49 | 14♈51 | 7♈12 | 6♈22 | 21♈47 | 21♈29 |
| S 13 | 17 23 58 | 21♈41'46 | 5♌42 | 4♈36 | 6♈54 | 22♈9 | 18♈26 | 0♈8 | 19♈45 | 9♈49 | 14♈50 | 7♈10 | 6♈18 | 21♈54 | 21♈30 |
| S 14 | 17 27 54 | 22♈39'07 | 19♌41 | 4♈43 | 7♈48 | 22♈50 | 18♈36 | 0♈4 | 19♈47 | 9♈49 | 14♈49 | 7♈5 | 6♈15 | 22♈0 | 21♈30 |
| M 15 | 17 31 51 | 23♈36'27 | 3♌32 | 4♈55 | 8♈42 | 23♈31 | 18♈45 | 0♈0 | 19♈49 | 9♈49 | 14♈47 | 6♈57 | 6♈12 | 22♈7 | 21♈31 |
| T 16 | 17 35 47 | 24♈33'48 | 17♌12 | 5♈11 | 9♈35 | 24♈12 | 18♈55 | 29♌56 | 19♈51 | 9♈49 | 14♈46 | 6♈46 | 6♈9 | 22♈13 | 21♈31 |
| W 17 | 17 39 44 | 25♈31'07 | 0♌38 | 5♈32 | 10♈27 | 24♈53 | 19♈5 | 29♈52 | 19♈53 | 9♈49 | 14♈44 | 6♈34 | 6♈6 | 22♈20 | 21♈32 |
| T 18 | 17 43 41 | 26♈28'26 | 13♌47 | 5♈57 | 11♈19 | 25♈33 | 19♈15 | 29♈49 | 19♈55 | 9♈49 | 14♈43 | 6♈22 | 6♈2 | 22♈27 | 21♈32 |
| F 19 | 17 47 37 | 27♈25'44 | 26♌38 | 6♈27 | 12♈10 | 26♈14 | 19♈26 | 29♈45 | 19♈57 | 9♈48 | 14♈42 | 6♈11 | 5♈59 | 22♈33 | 21♈33 |
| S 20 | 17 51 34 | 28♈23'02 | 9♌11 | 7♈1 | 13♈1 | 26♈55 | 19♈36 | 29♈41 | 19♈58 | 9♈48 | 14♈40 | 6♈1 | 5♈56 | 22♈40 | 21♈33 |
| S 21 | 17 55 30 | 29♈20'19 | 21♌27 | 7♈39 | 13♈51 | 27♈35 | 19♈46 | 29♈38 | 20♈0 | 9♈48 | 14♈39 | 5♈54 | 5♈53 | 22♈47 | 21♈33 |
| M 22 | 17 59 27 | 0♈17'35 | 3♌30 | 8♈22 | 14♈40 | 28♈16 | 19♈57 | 29♈34 | 20♈2 | 9♈48 | 14♈37 | 5♈49 | 5♈50 | 22♈53 | 21♈33 |
| T 23 | 18 3 23 | 1♈14'50 | 15♌24 | 9♈9 | 15♈28 | 28♈57 | 20♈7 | 29♈31 | 20♈3 | 9♈47 | 14♈36 | 5♈47 | 5♈47 | 23♈0 | 21♈33 |
| W 24 | 18 7 20 | 2♈12'05 | 27♌12 | 10♈0 | 16♈16 | 29♈37 | 20♈18 | 29♈27 | 20♈5 | 9♈47 | 14♈34 | 5♈47 | 5♈43 | 23♈7 | 21♈R33 |
| T 25 | 18 11 16 | 3♈9'19 | 9♌2 | 10♈55 | 17♈3 | 0♈18 | 20♈28 | 29♈24 | 20♈6 | 9♈46 | 14♈33 | 5♈46 | 5♈40 | 23♈13 | 21♈33 |
| F 26 | 18 15 13 | 4♈6'33 | 20♌58 | 11♈54 | 17♈48 | 0♈58 | 20♈39 | 29♈21 | 20♈8 | 9♈46 | 14♈32 | 5♈46 | 5♈37 | 23♈20 | 21♈33 |
| S 27 | 18 19 10 | 5♈3'46 | 3♌5 | 12♈57 | 18♈34 | 1♈38 | 20♈50 | 29♈17 | 20♈9 | 9♈46 | 14♈30 | 5♈44 | 5♈34 | 23♈27 | 21♈33 |
| S 28 | 18 23 6 | 6♈0'58 | 15♌28 | 14♈4 | 19♈18 | 2♈19 | 21♈1 | 29♈14 | 20♈11 | 9♈45 | 14♈29 | 5♈40 | 5♈31 | 23♈33 | 21♈33 |
| M 29 | 18 27 3 | 6♈58'10 | 28♌12 | 15♈15 | 20♈1 | 2♈59 | 21♈12 | 29♈11 | 20♈12 | 9♈45 | 14♈27 | 5♈33 | 5♈28 | 23♈40 | 21♈33 |
| T 30 | 18 30 59 | 7♈55'22 | 11♌17 | 16♈29 | 20♈43 | 3♈39 | 21♈23 | 29♌8 | 20♈13 | 9♈44 | 14♈26 | 5♈24 | 5♈24 | 23♈47 | 21♈33 |

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SWISS EPHEMERIS for the year 2015

JULY 2015

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|--------|----------|----------|--------|----------|--------|--------|-------|--------|-------|-------|--------|--------|
| W 1 | 18 34 56 | 8°52'34 | 24°45 | 17°11'48 | 21°10'24 | 4°20 | 21°10'34 | 29°R 5 | 20°Y14 | 9°R44 | 14°R24 | 5°R13 | 5°21 | 23°53 | 21°R32 |
| T 2 | 18 38 52 | 9°49'45 | 8°33 | 19°10 | 22° 4 | 5° 0 | 21°45 | 29°M 2 | 20°16 | 9°H43 | 14°Z23 | 5°A 1 | 5°18 | 24° 0 | 21°H32 |
| F 3 | 18 42 49 | 10°46'56 | 22°40 | 20°35 | 22°43 | 5°40 | 21°56 | 29° 0 | 20°17 | 9°42 | 14°21 | 4°50 | 5°15 | 24° 7 | 21°31 |
| S 4 | 18 46 45 | 11°44'07 | 6°38 | 22° 5 | 23°21 | 6°20 | 22° 8 | 28°57 | 20°18 | 9°42 | 14°20 | 4°40 | 5°12 | 24°13 | 21°31 |
| S 5 | 18 50 42 | 12°41'18 | 21°22 | 23°37 | 23°58 | 7° 0 | 22°19 | 28°54 | 20°19 | 9°41 | 14°18 | 4°33 | 5° 8 | 24°20 | 21°30 |
| M 6 | 18 54 39 | 13°38'29 | 5°H46 | 25°14 | 24°34 | 7°40 | 22°30 | 28°52 | 20°20 | 9°40 | 14°17 | 4°28 | 5° 5 | 24°26 | 21°30 |
| T 7 | 18 58 35 | 14°35'41 | 20° 7 | 26°54 | 25° 8 | 8°20 | 22°42 | 28°49 | 20°21 | 9°39 | 14°15 | 4°26 | 5° 2 | 24°33 | 21°29 |
| W 8 | 19 2 32 | 15°32'53 | 4°Y22 | 28°37 | 25°41 | 9° 0 | 22°53 | 28°47 | 20°22 | 9°39 | 14°14 | 4°D25 | 4°59 | 24°40 | 21°28 |
| T 9 | 19 6 28 | 16°30'05 | 18°28 | 0°23 | 26°12 | 9°40 | 23° 5 | 28°45 | 20°23 | 9°38 | 14°12 | 4°R25 | 4°56 | 24°46 | 21°28 |
| F 10 | 19 10 25 | 17°27'18 | 2°B25 | 2°12 | 26°42 | 10°20 | 23°17 | 28°43 | 20°24 | 9°37 | 14°11 | 4°25 | 4°53 | 24°53 | 21°27 |
| S 11 | 19 14 21 | 18°24'31 | 16°13 | 4° 5 | 27°11 | 11° 0 | 23°28 | 28°40 | 20°24 | 9°36 | 14° 9 | 4°22 | 4°49 | 25° 0 | 21°26 |
| S 12 | 19 18 18 | 19°21'44 | 29°51 | 6° 0 | 27°38 | 11°40 | 23°40 | 28°38 | 20°25 | 9°35 | 14° 8 | 4°17 | 4°46 | 25° 6 | 21°25 |
| M13 | 19 22 14 | 20°18'58 | 13°H19 | 7°58 | 28° 4 | 12°19 | 23°52 | 28°36 | 20°26 | 9°34 | 14° 6 | 4°10 | 4°43 | 25°13 | 21°24 |
| T 14 | 19 26 11 | 21°16'13 | 26°35 | 9°58 | 28°28 | 12°59 | 24° 4 | 28°35 | 20°26 | 9°33 | 14° 5 | 4° 0 | 4°40 | 25°20 | 21°23 |
| W15 | 19 30 8 | 22°13'28 | 9°E39 | 12° 0 | 28°50 | 13°39 | 24°16 | 28°33 | 20°27 | 9°33 | 14° 3 | 3°48 | 4°37 | 25°26 | 21°22 |
| T 16 | 19 34 4 | 23°10'43 | 22°29 | 14° 4 | 29°10 | 14°19 | 24°28 | 28°31 | 20°28 | 9°32 | 14° 2 | 3°36 | 4°34 | 25°33 | 21°21 |
| F 17 | 19 38 1 | 24° 7'59 | 5°L 5 | 16° 9 | 29°29 | 14°58 | 24°40 | 28°30 | 20°28 | 9°31 | 14° 0 | 3°25 | 4°30 | 25°40 | 21°20 |
| S 18 | 19 41 57 | 25° 5'14 | 17°27 | 18°15 | 29°46 | 15°38 | 24°52 | 28°28 | 20°28 | 9°29 | 13°59 | 3°16 | 4°27 | 25°46 | 21°19 |
| S 19 | 19 45 54 | 26° 2'31 | 29°37 | 20°23 | 0°M 1 | 16°18 | 25° 4 | 28°27 | 20°29 | 9°28 | 13°57 | 3° 8 | 4°24 | 25°53 | 21°17 |
| M20 | 19 49 50 | 26°59'47 | 11°M35 | 22°31 | 0°14 | 16°57 | 25°17 | 28°25 | 20°29 | 9°27 | 13°56 | 3° 4 | 4°21 | 26° 0 | 21°16 |
| T 21 | 19 53 47 | 27°57'04 | 23°26 | 24°39 | 0°25 | 17°37 | 25°29 | 28°24 | 20°29 | 9°26 | 13°55 | 3° 2 | 4°18 | 26° 6 | 21°15 |
| W22 | 19 57 43 | 28°54'20 | 5°A 13 | 26°47 | 0°33 | 18°16 | 25°41 | 28°23 | 20°30 | 9°25 | 13°53 | 3°D 1 | 4°14 | 26°13 | 21°13 |
| T 23 | 20 1 40 | 29°51'38 | 17° 1 | 28°55 | 0°40 | 18°55 | 25°53 | 28°22 | 20°30 | 9°24 | 13°52 | 3° 2 | 4°11 | 26°19 | 21°12 |
| F 24 | 20 5 37 | 0°L48'55 | 28°56 | 1°L 2 | 0°44 | 19°35 | 26° 6 | 28°21 | 20°30 | 9°23 | 13°50 | 3°R 2 | 4° 8 | 26°26 | 21°10 |
| S 25 | 20 9 33 | 1°46'13 | 11°M 3 | 3° 9 | 0°R46 | 20°14 | 26°18 | 28°20 | 20°30 | 9°22 | 13°49 | 3° 2 | 4° 5 | 26°33 | 21° 9 |
| S 26 | 20 13 30 | 2°43'31 | 23°27 | 5°15 | 0°46 | 20°54 | 26°31 | 28°19 | 20°R30 | 9°20 | 13°47 | 3° 0 | 4° 2 | 26°39 | 21° 7 |
| M27 | 20 17 26 | 3°40'50 | 6°H13 | 7°19 | 0°43 | 21°33 | 26°43 | 28°19 | 20°30 | 9°19 | 13°46 | 2°55 | 3°59 | 26°46 | 21° 6 |
| T 28 | 20 21 23 | 4°38'09 | 19°23 | 9°22 | 0°38 | 22°12 | 26°56 | 28°18 | 20°30 | 9°18 | 13°45 | 2°49 | 3°55 | 26°53 | 21° 4 |
| W29 | 20 25 19 | 5°35'29 | 2°Z59 | 11°24 | 0°31 | 22°51 | 27° 8 | 28°18 | 20°30 | 9°17 | 13°43 | 2°41 | 3°52 | 26°59 | 21° 2 |
| T 30 | 20 29 16 | 6°32'49 | 17° 1 | 13°25 | 0°21 | 23°31 | 27°21 | 28°17 | 20°30 | 9°15 | 13°42 | 2°32 | 3°49 | 27° 6 | 21° 1 |
| F 31 | 20 33 12 | 7°L30'10 | 1°A25 | 15°L24 | 0°M 9 | 24°L10 | 27°L33 | 28°M17 | 20°Y30 | 9°H14 | 13°Z41 | 2°A24 | 3°A46 | 27°M13 | 20°H59 |

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AUGUST 2015

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|-------|--------|--------|
| S 1 | 20 37 9 | 8°L27'31 | 16°A 4 | 17°L22 | 29°R55 | 24°E49 | 27°L46 | 28°R17 | 20°R29 | 9°R13 | 13°R39 | 2°R16 | 3°A43 | 27°M19 | 20°R57 |
| S 2 | 20 41 6 | 9°24'54 | 0°H52 | 19°18 | 29°L38 | 25°28 | 27°59 | 28°D17 | 20°Y29 | 9°H11 | 13°Z38 | 2°A11 | 3°40 | 27°26 | 20°H55 |
| M 3 | 20 45 2 | 10°22'17 | 15°40 | 21°12 | 29°18 | 26° 7 | 28°11 | 28°M17 | 20°29 | 9°10 | 13°37 | 2° 8 | 3°36 | 27°33 | 20°53 |
| T 4 | 20 48 59 | 11°19'42 | 0°Y22 | 23° 5 | 28°57 | 26°46 | 28°24 | 28°17 | 20°28 | 9° 8 | 13°35 | 2°D 7 | 3°33 | 27°39 | 20°51 |
| W 5 | 20 52 55 | 12°17'07 | 14°52 | 24°57 | 28°33 | 27°25 | 28°37 | 28°17 | 20°28 | 9° 7 | 13°34 | 2° 7 | 3°30 | 27°46 | 20°49 |
| T 6 | 20 56 52 | 13°14'34 | 29° 7 | 26°46 | 28° 8 | 28° 4 | 28°50 | 28°18 | 20°27 | 9° 6 | 13°33 | 2° 8 | 3°27 | 27°52 | 20°47 |
| F 7 | 21 0 48 | 14°12'02 | 13°B 6 | 28°34 | 27°40 | 28°43 | 29° 2 | 28°18 | 20°27 | 9° 4 | 13°32 | 2°R 9 | 3°24 | 27°59 | 20°45 |
| S 8 | 21 4 45 | 15° 9'32 | 26°48 | 0°M21 | 27°11 | 29°22 | 29°15 | 28°19 | 20°26 | 9° 3 | 13°30 | 2° 8 | 3°20 | 28° 6 | 20°43 |
| S 9 | 21 8 41 | 16° 7'03 | 10°H14 | 2° 6 | 26°40 | 0°L 1 | 29°28 | 28°19 | 20°26 | 9° 1 | 13°29 | 2° 6 | 3°17 | 28°12 | 20°41 |
| M10 | 21 12 38 | 17° 4'35 | 23°25 | 3°49 | 26° 7 | 0°40 | 29°41 | 28°20 | 20°25 | 9° 0 | 13°28 | 2° 1 | 3°14 | 28°19 | 20°39 |
| T 11 | 21 16 35 | 18° 2'08 | 6°E22 | 5°31 | 25°33 | 1°18 | 29°54 | 28°21 | 20°24 | 8°58 | 13°27 | 1°55 | 3°11 | 28°26 | 20°37 |
| W12 | 21 20 31 | 18°59'43 | 19° 6 | 7°11 | 24°59 | 1°57 | 0°M 7 | 28°22 | 20°24 | 8°57 | 13°26 | 1°48 | 3° 8 | 28°32 | 20°34 |
| T 13 | 21 24 28 | 19°57'19 | 1°L37 | 8°50 | 24°23 | 2°36 | 0°20 | 28°23 | 20°23 | 8°55 | 13°25 | 1°41 | 3° 5 | 28°39 | 20°32 |
| F 14 | 21 28 24 | 20°54'57 | 13°57 | 10°27 | 23°46 | 3°15 | 0°33 | 28°24 | 20°22 | 8°54 | 13°23 | 1°33 | 3° 1 | 28°46 | 20°30 |
| S 15 | 21 32 21 | 21°52'35 | 26° 6 | 12° 3 | 23° 9 | 3°53 | 0°46 | 28°25 | 20°21 | 8°52 | 13°22 | 1°28 | 2°58 | 28°52 | 20°27 |
| S 16 | 21 36 17 | 22°50'15 | 8°M 6 | 13°37 | 22°32 | 4°32 | 0°59 | 28°26 | 20°20 | 8°51 | 13°21 | 1°23 | 2°55 | 28°59 | 20°25 |
| M17 | 21 40 14 | 23°47'56 | 19°59 | 15°10 | 21°55 | 5°11 | 1°12 | 28°28 | 20°19 | 8°49 | 13°20 | 1°21 | 2°52 | 29° 6 | 20°23 |
| T 18 | 21 44 10 | 24°45'38 | 1°A47 | 16°41 | 21°18 | 5°49 | 1°25 | 28°29 | 20°18 | 8°47 | 13°19 | 1°D20 | 2°49 | 29°12 | 20°20 |
| W19 | 21 48 7 | 25°43'21 | 13°33 | 18°11 | 20°41 | 6°28 | 1°38 | 28°31 | 20°17 | 8°46 | 13°18 | 1°21 | 2°46 | 29°19 | 20°18 |
| T 20 | 21 52 4 | 26°41'05 | 25°21 | 19°39 | 20° 5 | 7° 7 | 1°51 | 28°32 | 20°16 | 8°44 | 13°17 | 1°22 | 2°42 | 29°26 | 20°15 |
| F 21 | 21 56 0 | 27°38'51 | 7°M16 | 21° 6 | 19°31 | 7°45 | 2° 4 | 28°34 | 20°15 | 8°43 | 13°16 | 1°24 | 2°39 | 29°32 | 20°13 |
| S 22 | 21 59 57 | 28°36'37 | 19°22 | 22°30 | 18°57 | 8°24 | 2°17 | 28°36 | 20°13 | 8°41 | 13°15 | 1°25 | 2°36 | 29°39 | 20°10 |
| S 23 | 22 3 53 | 29°34'25 | 1°A44 | 23°54 | 18°24 | 9° 2 | 2°30 | 28°38 | 20°12 | 8°39 | 13°14 | 1°R26 | 2°33 | 29°45 | 20° 8 |
| M24 | 22 7 50 | 0°M32'14 | 14°26 | 25°16 | 17°54 | 9°41 | 2°43 | 28°40 | 20°11 | 8°38 | 13°13 | 1°25 | 2°30 | 29°52 | 20° 5 |
| T 25 | 22 11 46 | 1°30'04 | 27°34 | 26°36 | 17°24 | 10°19 | 2°56 | 28°42 | 20°10 | 8°36 | 13°13 | 1°23 | 2°26 | 29°59 | 20° 3 |
| W26 | 22 15 43 | 2°27'55 | 11°Z 9 | 27°54 | 16°57 | 10°57 | 3° 9 | 28°44 | 20° 8 | 8°34 | 13°12 | 1°19 | 2°23 | 0°A 5 | 20° 0 |
| T 27 | 22 19 39 | 3°25'48 | 25°11 | 29°11 | 16°32 | 11°36 | 3°22 | 28°47 | 20° 7 | 8°33 | 13°11 | 1°15 | 2°20 | 0°12 | 19°57 |
| F 28 | 22 23 36 | 4°23'42 | 9°A39 | 0°A26 | 16° 8 | 12°14 | 3°35 | 28°49 | 20° 5 | 8°31 | 13°10 | 1°12 | 2°17 | 0°19 | 19°55 |
| S 29 | 22 27 33 | 5°21'37 | 24°28 | 1°38 | 15°47 | 12°52 | 3°48 | 28°51 | 20° 4 | 8°30 | 13° 9 | 1° 8 | 2°14 | 0°25 | 19°52 |
| S 30 | 22 31 29 | 6°19'34 | 9°H31 | 2°49 | 15°28 | 13°31 | 4° 1 | 28°54 | 20° 2 | 8°28 | 13° 9 | 1° 6 | 2°11 | 0°32 | 19°49 |
| M31 | 22 35 26 | 7°M17'32 | 24°H38 | 3°A58 | 15°L12 | 14°L 9 | 4°M14 | 28°M57 | 20°Y 1 | 8°H26 | 13°Z 8 | 1°D 5 | 2°A 7 | 0°A39 | 19°H47 |

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SWISS EPHEMERIS for the year 2015

SEPTEMBER 2015

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|-----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|
| T 1 | 22 39 22 | 8 ^h 15'32 | 9 ^h 40 | 5 ^h 5 | 14 ^h R58 | 14 ^h Ω47 | 4 ^h 27 | 28 ^h 59 | 19 ^h R59 | 8 ^h R25 | 13 ^h R 7 | 1 ^h Ω 5 | 2 ^h Ω 4 | 0 ^h Ω45 | 19 ^h R44 |
| W 2 | 22 43 19 | 9 ^h 13'34 | 24 ^h 30 | 6 ^h 10 | 14 ^h Ω46 | 15 ^h 25 | 4 ^h 40 | 29 ^h 2 | 19 ^h Y57 | 8 ^h Y23 | 13 ^h Ω 6 | 1 ^h 6 | 2 ^h 1 | 0 ^h 52 | 19 ^h Y41 |
| T 3 | 22 47 15 | 10 ^h 11'38 | 9 ^h 8 | 7 ^h 12 | 14 ^h 37 | 16 ^h 3 | 4 ^h 53 | 29 ^h 5 | 19 ^h 56 | 8 ^h 21 | 13 ^h 6 | 1 ^h 7 | 1 ^h 58 | 0 ^h 59 | 19 ^h 38 |
| F 4 | 22 51 12 | 11 ^h 9'44 | 23 ^h 11 | 8 ^h 12 | 14 ^h 30 | 16 ^h 42 | 5 ^h 6 | 29 ^h 8 | 19 ^h 54 | 8 ^h 20 | 13 ^h 5 | 1 ^h 8 | 1 ^h 55 | 1 ^h 5 | 19 ^h 36 |
| S 5 | 22 55 8 | 12 ^h 7'51 | 6 ^h 15'57 | 9 ^h 9 | 14 ^h 25 | 17 ^h 20 | 5 ^h 19 | 29 ^h 11 | 19 ^h 52 | 8 ^h 18 | 13 ^h 5 | 1 ^h R 9 | 1 ^h 51 | 1 ^h 12 | 19 ^h 33 |
| S 6 | 22 59 5 | 13 ^h 6'01 | 20 ^h 22 | 10 ^h 4 | 14 ^h D23 | 17 ^h 58 | 5 ^h 32 | 29 ^h 15 | 19 ^h 51 | 8 ^h 16 | 13 ^h 4 | 1 ^h 9 | 1 ^h 48 | 1 ^h 18 | 19 ^h 30 |
| M 7 | 23 3 1 | 14 ^h 4'13 | 3 ^h Ω25 | 10 ^h 55 | 14 ^h 24 | 18 ^h 36 | 5 ^h 45 | 29 ^h 18 | 19 ^h 49 | 8 ^h 15 | 13 ^h 3 | 1 ^h 8 | 1 ^h 45 | 1 ^h 25 | 19 ^h 27 |
| T 8 | 23 6 58 | 15 ^h 2'27 | 16 ^h 10 | 11 ^h 43 | 14 ^h 26 | 19 ^h 14 | 5 ^h 58 | 29 ^h 21 | 19 ^h 47 | 8 ^h 13 | 13 ^h 3 | 1 ^h 7 | 1 ^h 42 | 1 ^h 32 | 19 ^h 25 |
| W 9 | 23 10 55 | 16 ^h 0'42 | 28 ^h 40 | 12 ^h 28 | 14 ^h 31 | 19 ^h 52 | 6 ^h 11 | 29 ^h 25 | 19 ^h 45 | 8 ^h 11 | 13 ^h 2 | 1 ^h 5 | 1 ^h 39 | 1 ^h 38 | 19 ^h 22 |
| T 10 | 23 14 51 | 16 ^h 59'00 | 10 ^h Ω56 | 13 ^h 10 | 14 ^h 39 | 20 ^h 30 | 6 ^h 24 | 29 ^h 28 | 19 ^h 43 | 8 ^h 10 | 13 ^h 2 | 1 ^h 2 | 1 ^h 36 | 1 ^h 45 | 19 ^h 19 |
| F 11 | 23 18 48 | 17 ^h 57'20 | 23 ^h 3 | 13 ^h 47 | 14 ^h 48 | 21 ^h 8 | 6 ^h 37 | 29 ^h 32 | 19 ^h 41 | 8 ^h 8 | 13 ^h 2 | 1 ^h 0 | 1 ^h 32 | 1 ^h 52 | 19 ^h 16 |
| S 12 | 23 22 44 | 18 ^h 55'41 | 5 ^h 11 | 14 ^h 20 | 15 ^h 0 | 21 ^h 46 | 6 ^h 50 | 29 ^h 36 | 19 ^h 39 | 8 ^h 7 | 13 ^h 1 | 0 ^h 59 | 1 ^h 29 | 1 ^h 58 | 19 ^h 14 |
| S 13 | 23 26 41 | 19 ^h 54'05 | 16 ^h 53 | 14 ^h 49 | 15 ^h 13 | 22 ^h 24 | 7 ^h 3 | 29 ^h 39 | 19 ^h 37 | 8 ^h 5 | 13 ^h 1 | 0 ^h 58 | 1 ^h 26 | 2 ^h 5 | 19 ^h 11 |
| M14 | 23 30 37 | 20 ^h 52'30 | 28 ^h 41 | 15 ^h 13 | 15 ^h 29 | 23 ^h 2 | 7 ^h 16 | 29 ^h 43 | 19 ^h 35 | 8 ^h 3 | 13 ^h 0 | 0 ^h D57 | 1 ^h 23 | 2 ^h 12 | 19 ^h 8 |
| T 15 | 23 34 34 | 21 ^h 50'57 | 10 ^h Ω28 | 15 ^h 32 | 15 ^h 46 | 23 ^h 39 | 7 ^h 29 | 29 ^h 47 | 19 ^h 33 | 8 ^h 2 | 13 ^h 0 | 0 ^h 58 | 1 ^h 20 | 2 ^h 18 | 19 ^h 5 |
| W16 | 23 38 30 | 22 ^h 49'26 | 22 ^h 15 | 15 ^h 46 | 16 ^h 6 | 24 ^h 17 | 7 ^h 42 | 29 ^h 51 | 19 ^h 31 | 8 ^h 0 | 13 ^h 0 | 0 ^h 58 | 1 ^h 17 | 2 ^h 25 | 19 ^h 2 |
| T 17 | 23 42 27 | 23 ^h 47'56 | 4 ^h 11 | 15 ^h 53 | 16 ^h 27 | 24 ^h 55 | 7 ^h 54 | 29 ^h 55 | 19 ^h 29 | 7 ^h 59 | 13 ^h 0 | 0 ^h 59 | 1 ^h 13 | 2 ^h 32 | 19 ^h 0 |
| F 18 | 23 46 24 | 24 ^h 46'29 | 16 ^h 4 | 15 ^h R55 | 16 ^h 50 | 25 ^h 33 | 8 ^h 7 | 0 ^h Y 0 | 19 ^h 27 | 7 ^h 57 | 12 ^h 59 | 1 ^h 0 | 1 ^h 10 | 2 ^h 38 | 18 ^h 57 |
| S 19 | 23 50 20 | 25 ^h 45'03 | 28 ^h 12 | 15 ^h 50 | 17 ^h 15 | 26 ^h 11 | 8 ^h 20 | 0 ^h 4 | 19 ^h 25 | 7 ^h 55 | 12 ^h 59 | 1 ^h 0 | 1 ^h 7 | 2 ^h 45 | 18 ^h 54 |
| S 20 | 23 54 17 | 26 ^h 43'38 | 10 ^h Y34 | 15 ^h 39 | 17 ^h 41 | 26 ^h 48 | 8 ^h 33 | 0 ^h 8 | 19 ^h 22 | 7 ^h 54 | 12 ^h 59 | 1 ^h 1 | 1 ^h 4 | 2 ^h 51 | 18 ^h 51 |
| M21 | 23 58 13 | 27 ^h 42'16 | 23 ^h 14 | 15 ^h 20 | 18 ^h 9 | 27 ^h 26 | 8 ^h 45 | 0 ^h 12 | 19 ^h 20 | 7 ^h 52 | 12 ^h 59 | 1 ^h R 1 | 1 ^h 1 | 2 ^h 58 | 18 ^h 49 |
| T 22 | 0 2 10 | 28 ^h 40'55 | 6 ^h Ω16 | 14 ^h 54 | 18 ^h 39 | 28 ^h 4 | 8 ^h 58 | 0 ^h 17 | 19 ^h 18 | 7 ^h 51 | 12 ^h 59 | 1 ^h 1 | 0 ^h 57 | 3 ^h 5 | 18 ^h 46 |
| W23 | 0 6 6 | 29 ^h 39'36 | 19 ^h 43 | 14 ^h 22 | 19 ^h 10 | 28 ^h 41 | 9 ^h 11 | 0 ^h 22 | 19 ^h 16 | 7 ^h 49 | 12 ^h 59 | 1 ^h 1 | 0 ^h 54 | 3 ^h 11 | 18 ^h 43 |
| T 24 | 0 10 3 | 0 ^h Ω38'18 | 3 ^h Ω36 | 13 ^h 42 | 19 ^h 43 | 29 ^h 19 | 9 ^h 23 | 0 ^h 26 | 19 ^h 14 | 7 ^h 48 | 12 ^h 59 | 1 ^h D 1 | 0 ^h 51 | 3 ^h 18 | 18 ^h 40 |
| F 25 | 0 13 59 | 1 ^h 37'02 | 17 ^h 56 | 12 ^h 55 | 20 ^h 17 | 29 ^h 56 | 9 ^h 36 | 0 ^h 31 | 19 ^h 11 | 7 ^h 46 | 12 ^h D58 | 1 ^h 1 | 0 ^h 48 | 3 ^h 25 | 18 ^h 38 |
| S 26 | 0 17 56 | 2 ^h 35'48 | 2 ^h Y39 | 12 ^h 3 | 20 ^h 52 | 0 ^h Y34 | 9 ^h 48 | 0 ^h 36 | 19 ^h 9 | 7 ^h 45 | 12 ^h 58 | 1 ^h 1 | 0 ^h 45 | 3 ^h 31 | 18 ^h 35 |
| S 27 | 0 21 53 | 3 ^h 34'36 | 17 ^h 40 | 11 ^h 4 | 21 ^h 28 | 1 ^h 11 | 10 ^h 1 | 0 ^h 40 | 19 ^h 7 | 7 ^h 43 | 12 ^h 59 | 1 ^h 1 | 0 ^h 42 | 3 ^h 38 | 18 ^h 32 |
| M28 | 0 25 49 | 4 ^h 33'25 | 2 ^h Y52 | 10 ^h 2 | 22 ^h 6 | 1 ^h 49 | 10 ^h 13 | 0 ^h 45 | 19 ^h 4 | 7 ^h 42 | 12 ^h 59 | 1 ^h R 1 | 0 ^h 38 | 3 ^h 45 | 18 ^h 30 |
| T 29 | 0 29 46 | 5 ^h 32'17 | 18 ^h 5 | 8 ^h 56 | 22 ^h 45 | 2 ^h 26 | 10 ^h 26 | 0 ^h 50 | 19 ^h 2 | 7 ^h 41 | 12 ^h 59 | 1 ^h 1 | 0 ^h 35 | 3 ^h 51 | 18 ^h 27 |
| W30 | 0 33 42 | 6 ^h Ω31'10 | 3 ^h Ω 9 | 7 ^h Ω48 | 23 ^h Ω25 | 3 ^h Y 4 | 10 ^h Y38 | 0 ^h Y55 | 19 ^h Y 0 | 7 ^h Y39 | 12 ^h Ω59 | 1 ^h Ω 0 | 0 ^h Ω32 | 3 ^h Ω58 | 18 ^h Y24 |

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OCTOBER 2015

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|-----------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|
| T 1 | 0 37 39 | 7 ^h Ω30'06 | 17 ^h Ω56 | 6 ^h R41 | 24 ^h Ω 7 | 3 ^h Y41 | 10 ^h Y50 | 1 ^h Y 0 | 18 ^h R57 | 7 ^h R38 | 12 ^h Ω59 | 1 ^h R 0 | 0 ^h Ω29 | 4 ^h Ω 5 | 18 ^h R22 |
| F 2 | 0 41 35 | 8 ^h 29'04 | 2 ^h Y20 | 5 ^h Ω35 | 24 ^h 49 | 4 ^h 19 | 11 ^h 3 | 1 ^h 6 | 18 ^h Y55 | 7 ^h Y36 | 12 ^h 59 | 0 ^h Ω59 | 0 ^h 26 | 4 ^h 11 | 18 ^h Y19 |
| S 3 | 0 45 32 | 9 ^h 28'05 | 16 ^h 18 | 4 ^h 33 | 25 ^h 33 | 4 ^h 56 | 11 ^h 15 | 1 ^h 11 | 18 ^h 53 | 7 ^h 35 | 12 ^h 59 | 0 ^h 58 | 0 ^h 22 | 4 ^h 18 | 18 ^h 17 |
| S 4 | 0 49 28 | 10 ^h 27'07 | 29 ^h 48 | 3 ^h 36 | 26 ^h 17 | 5 ^h 33 | 11 ^h 27 | 1 ^h 16 | 18 ^h 50 | 7 ^h 34 | 13 ^h 0 | 0 ^h 58 | 0 ^h 19 | 4 ^h 24 | 18 ^h 14 |
| M 5 | 0 53 25 | 11 ^h 26'12 | 12 ^h Ω53 | 2 ^h 46 | 27 ^h 3 | 6 ^h 11 | 11 ^h 39 | 1 ^h 21 | 18 ^h 48 | 7 ^h 33 | 13 ^h 0 | 0 ^h D57 | 0 ^h 16 | 4 ^h 31 | 18 ^h 12 |
| T 6 | 0 57 21 | 12 ^h 25'20 | 25 ^h 35 | 2 ^h 4 | 27 ^h 49 | 6 ^h 48 | 11 ^h 51 | 1 ^h 27 | 18 ^h 45 | 7 ^h 31 | 13 ^h 0 | 0 ^h 58 | 0 ^h 13 | 4 ^h 38 | 18 ^h 9 |
| W 7 | 1 1 18 | 13 ^h 24'29 | 7 ^h Ω58 | 1 ^h 31 | 28 ^h 36 | 7 ^h 25 | 12 ^h 3 | 1 ^h 32 | 18 ^h 43 | 7 ^h 30 | 13 ^h 1 | 0 ^h 58 | 0 ^h 10 | 4 ^h 44 | 18 ^h 7 |
| T 8 | 1 5 15 | 14 ^h 23'41 | 20 ^h 6 | 1 ^h 8 | 29 ^h 24 | 8 ^h 3 | 12 ^h 15 | 1 ^h 38 | 18 ^h 40 | 7 ^h 29 | 13 ^h 1 | 1 ^h 0 | 0 ^h 7 | 4 ^h 51 | 18 ^h 4 |
| F 9 | 1 9 11 | 15 ^h 22'55 | 2 ^h Y 4 | 0 ^h 56 | 0 ^h Y13 | 8 ^h 40 | 12 ^h 27 | 1 ^h 43 | 18 ^h 38 | 7 ^h 27 | 13 ^h 1 | 1 ^h 1 | 0 ^h 3 | 4 ^h 58 | 18 ^h 2 |
| S 10 | 1 13 8 | 16 ^h 22'12 | 13 ^h 55 | 0 ^h D55 | 1 ^h 3 | 9 ^h 17 | 12 ^h 39 | 1 ^h 49 | 18 ^h 36 | 7 ^h 26 | 13 ^h 2 | 1 ^h 2 | 0 ^h 0 | 5 ^h 4 | 18 ^h 0 |
| S 11 | 1 17 4 | 17 ^h 21'30 | 25 ^h 42 | 1 ^h 4 | 1 ^h 54 | 9 ^h 54 | 12 ^h 51 | 1 ^h 55 | 18 ^h 33 | 7 ^h 25 | 13 ^h 2 | 1 ^h R 3 | 29 ^h Y57 | 5 ^h 11 | 17 ^h 57 |
| M12 | 1 21 1 | 18 ^h 20'51 | 7 ^h Ω29 | 1 ^h 24 | 2 ^h 45 | 10 ^h 31 | 13 ^h 3 | 2 ^h 0 | 18 ^h 31 | 7 ^h 24 | 13 ^h 3 | 1 ^h 3 | 29 ^h 54 | 5 ^h 18 | 17 ^h 55 |
| T 13 | 1 24 57 | 19 ^h 20'14 | 19 ^h 18 | 1 ^h 54 | 3 ^h 37 | 11 ^h 8 | 13 ^h 15 | 2 ^h 6 | 18 ^h 28 | 7 ^h 23 | 13 ^h 3 | 1 ^h 2 | 29 ^h 51 | 5 ^h 24 | 17 ^h 53 |
| W14 | 1 28 54 | 20 ^h 19'38 | 1 ^h Y10 | 2 ^h 33 | 4 ^h 30 | 11 ^h 45 | 13 ^h 26 | 2 ^h 12 | 18 ^h 26 | 7 ^h 22 | 13 ^h 4 | 1 ^h 0 | 29 ^h 48 | 5 ^h 31 | 17 ^h 50 |
| T 15 | 1 32 50 | 21 ^h 19'05 | 13 ^h 9 | 3 ^h 20 | 5 ^h 23 | 12 ^h 23 | 13 ^h 38 | 2 ^h 18 | 18 ^h 23 | 7 ^h 21 | 13 ^h 4 | 0 ^h 57 | 29 ^h 44 | 5 ^h 38 | 17 ^h 48 |
| F 16 | 1 36 47 | 22 ^h 18'34 | 25 ^h 16 | 4 ^h 16 | 6 ^h 17 | 13 ^h 0 | 13 ^h 49 | 2 ^h 24 | 18 ^h 21 | 7 ^h 20 | 13 ^h 5 | 0 ^h 54 | 29 ^h 41 | 5 ^h 44 | 17 ^h 46 |
| S 17 | 1 40 44 | 23 ^h 18'05 | 7 ^h Y32 | 5 ^h 18 | 7 ^h 12 | 13 ^h 37 | 14 ^h 1 | 2 ^h 30 | 18 ^h 19 | 7 ^h 19 | 13 ^h 6 | 0 ^h 50 | 29 ^h 38 | 5 ^h 51 | 17 ^h 44 |
| S 18 | 1 44 40 | 24 ^h 17'37 | 20 ^h 1 | 6 ^h 27 | 8 ^h 7 | 14 ^h 14 | 14 ^h 12 | 2 ^h 36 | 18 ^h 16 | 7 ^h 18 | 13 ^h 6 | 0 ^h 47 | 29 ^h 35 | 5 ^h 57 | 17 ^h |

SWISS EPHEMERIS for the year 2015

NOVEMBER 2015

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|----------|-------|-------|-------|-------|-------|------|--------|-------|-------|--------|-------|-------|--------|
| S 1 | 2 39 52 | 8♈14'19 | 8♈23 | 27♊51 | 21♈54 | 22♈48 | 16♈43 | 4♈5 | 17°R43 | 7°R 6 | 13♈19 | 0°R20 | 28♈50 | 7♈31 | 17°R17 |
| M 2 | 2 43 48 | 9°14'20 | 21°34 | 29°31 | 22°57 | 23°24 | 16°54 | 4°12 | 17°Y41 | 7°Y 6 | 13°20 | 0♈17 | 28°47 | 7°37 | 17°Y15 |
| T 3 | 2 47 45 | 10°14'22 | 4♈19 | 1♈10 | 23°59 | 24° 1 | 17° 4 | 4°19 | 17°39 | 7° 5 | 13°21 | 0°15 | 28°44 | 7°44 | 17°14 |
| W 4 | 2 51 42 | 11°14'27 | 16°42 | 2°49 | 25° 2 | 24°37 | 17°14 | 4°25 | 17°37 | 7° 5 | 13°22 | 0°D15 | 28°41 | 7°50 | 17°13 |
| T 5 | 2 55 38 | 12°14'34 | 28°49 | 4°29 | 26° 6 | 25°14 | 17°24 | 4°32 | 17°35 | 7° 4 | 13°23 | 0°16 | 28°38 | 7°57 | 17°11 |
| F 6 | 2 59 35 | 13°14'43 | 10♈44 | 6° 7 | 27°10 | 25°50 | 17°33 | 4°39 | 17°32 | 7° 4 | 13°25 | 0°18 | 28°34 | 8° 4 | 17°10 |
| S 7 | 3 3 31 | 14°14'54 | 22°32 | 7°46 | 28°14 | 26°26 | 17°43 | 4°46 | 17°30 | 7° 3 | 13°26 | 0°19 | 28°31 | 8°10 | 17° 9 |
| S 8 | 3 7 28 | 15°15'07 | 4♈18 | 9°25 | 29°18 | 27° 3 | 17°53 | 4°52 | 17°28 | 7° 3 | 13°27 | 0°R20 | 28°28 | 8°17 | 17° 8 |
| M 9 | 3 11 24 | 16°15'22 | 16° 6 | 11° 3 | 0♈23 | 27°39 | 18° 2 | 4°59 | 17°26 | 7° 3 | 13°28 | 0°18 | 28°25 | 8°24 | 17° 7 |
| T 10 | 3 15 21 | 17°15'39 | 27°59 | 12°41 | 1°28 | 28°15 | 18°12 | 5° 6 | 17°24 | 7° 2 | 13°30 | 0°14 | 28°22 | 8°30 | 17° 6 |
| W 11 | 3 19 17 | 18°15'57 | 10♈ 0 | 14°18 | 2°33 | 28°51 | 18°21 | 5°13 | 17°22 | 7° 2 | 13°31 | 0° 8 | 28°19 | 8°37 | 17° 5 |
| T 12 | 3 23 14 | 19°16'18 | 22°11 | 15°55 | 3°39 | 29°27 | 18°30 | 5°20 | 17°20 | 7° 2 | 13°32 | 0° 0 | 28°15 | 8°44 | 17° 4 |
| F 13 | 3 27 10 | 20°16'40 | 4♈32 | 17°32 | 4°45 | 0♈ 3 | 18°39 | 5°27 | 17°18 | 7° 2 | 13°34 | 29°D51 | 28°12 | 8°50 | 17° 3 |
| S 14 | 3 31 7 | 21°17'04 | 17° 5 | 19° 9 | 5°51 | 0°40 | 18°48 | 5°34 | 17°16 | 7° 2 | 13°35 | 29°41 | 28° 9 | 8°57 | 17° 2 |
| S 15 | 3 35 4 | 22°17'29 | 29°49 | 20°45 | 6°57 | 1°16 | 18°57 | 5°41 | 17°14 | 7° 1 | 13°37 | 29°32 | 28° 6 | 9° 4 | 17° 1 |
| M 16 | 3 39 0 | 23°17'56 | 12♈45 | 22°21 | 8° 4 | 1°52 | 19° 6 | 5°48 | 17°13 | 7° 1 | 13°38 | 29°24 | 28° 3 | 9°10 | 17° 1 |
| T 17 | 3 42 57 | 24°18'24 | 25°54 | 23°57 | 9°10 | 2°28 | 19°14 | 5°55 | 17°11 | 7° 1 | 13°39 | 29°18 | 27°59 | 9°17 | 17° 0 |
| W 18 | 3 46 53 | 25°18'54 | 9♈16 | 25°32 | 10°18 | 3° 3 | 19°23 | 6° 2 | 17° 9 | 7° 1 | 13°41 | 29°14 | 27°56 | 9°24 | 16°59 |
| T 19 | 3 50 50 | 26°19'25 | 22°53 | 27° 7 | 11°25 | 3°39 | 19°31 | 6° 9 | 17° 7 | 7°D 1 | 13°43 | 29°D13 | 27°53 | 9°30 | 16°59 |
| F 20 | 3 54 46 | 27°19'57 | 6♈46 | 28°42 | 12°32 | 4°15 | 19°39 | 6°16 | 17° 6 | 7° 1 | 13°44 | 29°13 | 27°50 | 9°37 | 16°58 |
| S 21 | 3 58 43 | 28°20'30 | 20°54 | 0♈17 | 13°40 | 4°51 | 19°47 | 6°23 | 17° 4 | 7° 1 | 13°46 | 29°14 | 27°47 | 9°43 | 16°58 |
| S 22 | 4 2 40 | 29°21'04 | 5°Y18 | 1°51 | 14°48 | 5°27 | 19°55 | 6°30 | 17° 2 | 7° 1 | 13°47 | 29°R14 | 27°44 | 9°50 | 16°57 |
| M 23 | 4 6 36 | 0♈21'40 | 19°55 | 3°26 | 15°56 | 6° 2 | 20° 3 | 6°37 | 17° 1 | 7° 1 | 13°49 | 29°12 | 27°40 | 9°57 | 16°57 |
| T 24 | 4 10 33 | 1°22'16 | 4♈40 | 5° 0 | 17° 4 | 6°38 | 20°11 | 6°44 | 16°59 | 7° 2 | 13°50 | 29° 8 | 27°37 | 10° 3 | 16°57 |
| W 25 | 4 14 29 | 2°22'54 | 19°26 | 6°34 | 18°13 | 7°14 | 20°18 | 6°51 | 16°58 | 7° 2 | 13°52 | 29° 1 | 27°34 | 10°10 | 16°57 |
| T 26 | 4 18 26 | 3°23'34 | 4♈ 6 | 8° 7 | 19°22 | 7°49 | 20°26 | 6°59 | 16°56 | 7° 2 | 13°54 | 28°52 | 27°31 | 10°17 | 16°56 |
| F 27 | 4 22 22 | 4°24'15 | 18°33 | 9°41 | 20°30 | 8°25 | 20°33 | 7° 6 | 16°55 | 7° 2 | 13°55 | 28°41 | 27°28 | 10°23 | 16°56 |
| S 28 | 4 26 19 | 5°24'57 | 2♈39 | 11°14 | 21°39 | 9° 0 | 20°40 | 7°13 | 16°53 | 7° 3 | 13°57 | 28°30 | 27°25 | 10°30 | 16°D56 |
| S 29 | 4 30 15 | 6°25'41 | 16°20 | 12°48 | 22°49 | 9°36 | 20°47 | 7°20 | 16°52 | 7° 3 | 13°59 | 28°20 | 27°21 | 10°37 | 16°56 |
| M 30 | 4 34 12 | 7°26'26 | 29♈34 | 14♈21 | 23♈58 | 10♈11 | 20°54 | 7°27 | 16°Y51 | 7°Y 3 | 14♈ 1 | 28°12 | 27°18 | 10♈43 | 16°Y56 |

Delta T = 68.32 sec.

DECEMBER 2015

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|--------|
| T 1 | 4 38 9 | 8♈27'12 | 12♈23 | 15♈54 | 25♈ 8 | 10♈46 | 21° 1 | 7♈34 | 16°R49 | 7°Y 4 | 14♈ 2 | 28°R 6 | 27°15 | 10♈50 | 16°Y57 |
| W 2 | 4 42 5 | 9°28'01 | 24°50 | 17°28 | 26°17 | 11°22 | 21° 7 | 7°41 | 16°Y48 | 7° 4 | 14° 4 | 28°R 3 | 27°12 | 10°57 | 16°57 |
| T 3 | 4 46 2 | 10°28'50 | 6♈58 | 19° 1 | 27°27 | 11°57 | 21°14 | 7°48 | 16°47 | 7° 5 | 14° 6 | 28°D 2 | 27° 9 | 11° 3 | 16°57 |
| F 4 | 4 49 58 | 11°29'41 | 18°54 | 20°34 | 28°37 | 12°32 | 21°20 | 7°55 | 16°46 | 7° 5 | 14° 8 | 28° 2 | 27° 5 | 11°10 | 16°57 |
| S 5 | 4 53 55 | 12°30'33 | 0♈42 | 22° 7 | 29°48 | 13° 7 | 21°26 | 8° 3 | 16°45 | 7° 6 | 14° 9 | 28°R 2 | 27° 2 | 11°17 | 16°58 |
| S 6 | 4 57 51 | 13°31'26 | 12°29 | 23°40 | 0♈58 | 13°42 | 21°32 | 8°10 | 16°44 | 7° 6 | 14°11 | 28° 2 | 26°59 | 11°23 | 16°58 |
| M 7 | 5 1 48 | 14°32'21 | 24°19 | 25°12 | 2° 8 | 14°18 | 21°38 | 8°17 | 16°43 | 7° 7 | 14°13 | 27°59 | 26°56 | 11°30 | 16°58 |
| T 8 | 5 5 44 | 15°33'17 | 6♈17 | 26°45 | 3°19 | 14°53 | 21°44 | 8°24 | 16°42 | 7° 8 | 14°15 | 27°53 | 26°53 | 11°37 | 16°59 |
| W 9 | 5 9 41 | 16°34'15 | 18°27 | 28°18 | 4°30 | 15°27 | 21°49 | 8°31 | 16°41 | 7° 8 | 14°17 | 27°44 | 26°50 | 11°43 | 17° 0 |
| T 10 | 5 13 38 | 17°35'13 | 0♈49 | 29°50 | 5°41 | 16° 2 | 21°55 | 8°38 | 16°40 | 7° 9 | 14°19 | 27°33 | 26°46 | 11°50 | 17° 0 |
| F 11 | 5 17 34 | 18°36'13 | 13°27 | 1♈22 | 6°51 | 16°37 | 22° 0 | 8°45 | 16°39 | 7°10 | 14°21 | 27°20 | 26°43 | 11°56 | 17° 1 |
| S 12 | 5 21 31 | 19°37'13 | 26°19 | 2°55 | 8° 3 | 17°12 | 22° 5 | 8°52 | 16°39 | 7°10 | 14°23 | 27° 6 | 26°40 | 12° 3 | 17° 2 |
| S 13 | 5 25 27 | 20°38'14 | 9♈26 | 4°26 | 9°14 | 17°47 | 22°10 | 8°59 | 16°38 | 7°11 | 14°25 | 26°52 | 26°37 | 12°10 | 17° 2 |
| M 14 | 5 29 24 | 21°39'16 | 22°44 | 5°58 | 10°25 | 18°21 | 22°15 | 9° 6 | 16°37 | 7°12 | 14°27 | 26°41 | 26°34 | 12°16 | 17° 3 |
| T 15 | 5 33 20 | 22°40'19 | 6♈13 | 7°29 | 11°36 | 18°56 | 22°19 | 9°13 | 16°37 | 7°13 | 14°28 | 26°32 | 26°31 | 12°23 | 17° 4 |
| W 16 | 5 37 17 | 23°41'22 | 19°50 | 9° 0 | 12°48 | 19°30 | 22°24 | 9°20 | 16°36 | 7°14 | 14°30 | 26°26 | 26°27 | 12°30 | 17° 5 |
| T 17 | 5 41 13 | 24°42'25 | 3♈36 | 10°30 | 14° 0 | 20° 5 | 22°28 | 9°27 | 16°36 | 7°15 | 14°32 | 26°23 | 26°24 | 12°36 | 17° 6 |
| F 18 | 5 45 10 | 25°43'29 | 17°29 | 12° 0 | 15°11 | 20°39 | 22°32 | 9°34 | 16°35 | 7°16 | 14°34 | 26°22 | 26°21 | 12°43 | 17° 7 |
| S 19 | 5 49 7 | 26°44'33 | 1°Y30 | 13°29 | 16°23 | 21°14 | 22°36 | 9°41 | 16°35 | 7°17 | 14°36 | 26°21 | 26°18 | 12°50 | 17° 8 |
| S 20 | 5 53 3 | 27°45'37 | 15°38 | 14°56 | 17°35 | 21°48 | 22°39 | 9°48 | 16°34 | 7°18 | 14°38 | 26°21 | 26°15 | 12°56 | 17°10 |
| M 21 | 5 57 0 | 28°46'42 | 29°52 | 16°23 | 18°47 | 22°22 | 22°43 | 9°55 | 16°34 | 7°19 | 14°40 | 26°18 | 26°11 | 13° 3 | 17°11 |
| T 22 | 6 0 56 | 29°47'47 | 14♈11 | 17°48 | 19°59 | 22°56 | 22°46 | 10° 2 | 16°34 | 7°20 | 14°42 | 26°13 | 26° 8 | 13°10 | 17°12 |
| W 23 | 6 4 53 | 0♈48'52 | 28°30 | 19°12 | 21°11 | 23°30 | 22°49 | 10° 8 | 16°34 | 7°21 | 14°44 | 26° 5 | 26° 5 | 13°16 | 17°14 |
| T 24 | 6 8 49 | 1°49'58 | 12♈45 | 20°33 | 22°23 | 24° 4 | 22°52 | 10°15 | 16°34 | 7°22 | 14°46 | 25°54 | 26° 2 | 13°23 | 17°15 |
| F 25 | 6 12 46 | 2°51'04 | 26°50 | 21°52 | 23°35 | 24°38 | 22°55 | 10°22 | 16°34 | 7°24 | 14°48 | 25°42 | 25°59 | 13°30 | 17°16 |
| S 26 | 6 16 42 | 3°52'10 | 10♈40 | 23° 9 | 24°48 | 25°12 | 22°58 | 10°29 | 16°D34 | 7°25 | 14°51 | 25°29 | 25°56 | 13°36 | 17°18 |
| S 27 | 6 20 39 | 4°53'17 | 24°11 | 24°22 | 26° 0 | 25°46 | 23° 0 | 10°35 | 16°34 | 7°26 | 14°53 | 25°17 | 25°52 | 13°43 | 17°19 |
| M 28 | 6 24 36 | 5°54'24 | 7♈21 | 25°31 | 27°13 | 26°19 | 23° 2 | 10°42 | 16°34 | 7°27 | 14°55 | 25° 7 | 25°49 | 13°50 | 17°21 |
| T 29 | 6 28 32 | 6°55'32 | 20° 8 | 26°36 | 28°25 | 26°53 | 23° 4 | 10°49 | 16°34 | 7°29 | 14°57 | 25° 0 | 25°46 | 13°56 | 17°23 |
| W 30 | 6 32 29 | 7°56'39 | 2♈35 | 27°36 | 29°38 | 27°27 | 23° 6 | 10°55 | 16°34 | 7°30 | 14°59 | 24°55 | 25°43 | 14° 3 | 17°24 |
| T 31 | 6 36 25 | 8°57'48 | 14♈45 | 28♈30 | 0♈51 | 28♈ 0 | 23° 8 | 11♈ 2 | 16°Y34 | 7°Y 31 | 15♈ 1 | 24°53 | 25°40 | 14♈ 9 | 17°Y26 |

Delta T = 68.36 sec.

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