

SWISS EPHEMERIS for the year 1882

JANUARY 1882

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|--------|-------|--------|--------|--------|-------|------|-------|--------|
| S 1 | 6 42 10 | 10♁31'54 | 1♂ 7 | 7♁ 7 | 28♁17 | 3°R48 | 16°R22 | 5°R35 | 18°R32 | 13°R55 | 27°R37 | 8♁50 | 7♁17 | 21♁58 | 17°R57 |
| M 2 | 6 46 7 | 11°33'02 | 13°44 | 8°43 | 29°32 | 3♁25 | 16♁20 | 5♁34 | 18♁32 | 13♁55 | 27♁37 | 8°R50 | 7°14 | 22° 4 | 17♁56 |
| T 3 | 6 50 3 | 12°34'11 | 26°11 | 10°19 | 0♁48 | 3° 3 | 16°18 | 5°34 | 18°31 | 13°54 | 27°36 | 8°49 | 7°10 | 22°11 | 17°54 |
| W 4 | 6 54 0 | 13°35'19 | 8♁29 | 11°55 | 2° 3 | 2°41 | 16°17 | 5°33 | 18°31 | 13°53 | 27°35 | 8°46 | 7° 7 | 22°18 | 17°53 |
| T 5 | 6 57 56 | 14°36'27 | 20°38 | 13°32 | 3°18 | 2°20 | 16°16 | 5°33 | 18°30 | 13°52 | 27°34 | 8°41 | 7° 4 | 22°24 | 17°51 |
| F 6 | 7 1 53 | 15°37'35 | 2♁40 | 15° 9 | 4°34 | 1°59 | 16°15 | 5°33 | 18°29 | 13°52 | 27°34 | 8°34 | 7° 1 | 22°31 | 17°50 |
| S 7 | 7 5 50 | 16°38'43 | 14°37 | 16°47 | 5°49 | 1°39 | 16°14 | 5°D33 | 18°29 | 13°51 | 27°33 | 8°26 | 6°58 | 22°38 | 17°49 |
| S 8 | 7 9 46 | 17°39'51 | 26°30 | 18°25 | 7° 5 | 1°19 | 16°13 | 5°33 | 18°28 | 13°51 | 27°32 | 8°19 | 6°55 | 22°45 | 17°47 |
| M 9 | 7 13 43 | 18°40'58 | 8♁21 | 20° 4 | 8°20 | 0°59 | 16°13 | 5°33 | 18°27 | 13°50 | 27°32 | 8°12 | 6°51 | 22°51 | 17°46 |
| T 10 | 7 17 39 | 19°42'06 | 20°14 | 21°43 | 9°35 | 0°41 | 16°D13 | 5°33 | 18°26 | 13°50 | 27°31 | 8° 6 | 6°48 | 22°58 | 17°45 |
| W 11 | 7 21 36 | 20°43'13 | 2♁11 | 23°22 | 10°51 | 0°23 | 16°13 | 5°34 | 18°25 | 13°49 | 27°30 | 8° 2 | 6°45 | 23° 5 | 17°44 |
| T 12 | 7 25 32 | 21°44'20 | 14°19 | 25° 2 | 12° 6 | 0° 5 | 16°13 | 5°34 | 18°24 | 13°49 | 27°30 | 8° 0 | 6°42 | 23°12 | 17°43 |
| F 13 | 7 29 29 | 22°45'27 | 26°40 | 26°42 | 13°22 | 29♁48 | 16°13 | 5°35 | 18°23 | 13°48 | 27°29 | 8°D 0 | 6°39 | 23°18 | 17°42 |
| S 14 | 7 33 25 | 23°46'34 | 9♁20 | 28°23 | 14°37 | 29°32 | 16°14 | 5°36 | 18°22 | 13°48 | 27°29 | 8° 1 | 6°35 | 23°25 | 17°41 |
| S 15 | 7 37 22 | 24°47'41 | 22°23 | 0♁ 4 | 15°52 | 29°17 | 16°15 | 5°37 | 18°21 | 13°48 | 27°28 | 8° 2 | 6°32 | 23°32 | 17°41 |
| M 16 | 7 41 19 | 25°48'48 | 5♁53 | 1°46 | 17° 8 | 29° 3 | 16°16 | 5°38 | 18°19 | 13°47 | 27°28 | 8°R 3 | 6°29 | 23°38 | 17°40 |
| T 17 | 7 45 15 | 26°49'54 | 19°52 | 3°28 | 18°23 | 28°49 | 16°17 | 5°39 | 18°18 | 13°47 | 27°27 | 8° 2 | 6°26 | 23°45 | 17°39 |
| W 18 | 7 49 12 | 27°51'00 | 4♁18 | 5°11 | 19°39 | 28°36 | 16°19 | 5°40 | 18°17 | 13°47 | 27°27 | 8° 0 | 6°23 | 23°52 | 17°39 |
| T 19 | 7 53 8 | 28°52'06 | 19° 9 | 6°53 | 20°54 | 28°24 | 16°20 | 5°41 | 18°15 | 13°47 | 27°26 | 7°54 | 6°20 | 23°59 | 17°38 |
| F 20 | 7 57 5 | 29°53'11 | 4♁16 | 8°36 | 22° 9 | 28°12 | 16°22 | 5°43 | 18°14 | 13°47 | 27°26 | 7°47 | 6°16 | 24° 5 | 17°38 |
| S 21 | 8 1 1 | 0♁54'15 | 19°29 | 10°19 | 23°25 | 28° 2 | 16°24 | 5°44 | 18°13 | 13°47 | 27°25 | 7°39 | 6°13 | 24°12 | 17°37 |
| S 22 | 8 4 58 | 1°55'18 | 4♁39 | 12° 2 | 24°40 | 27°52 | 16°27 | 5°46 | 18°11 | 13°46 | 27°25 | 7°30 | 6°10 | 24°19 | 17°37 |
| M 23 | 8 8 54 | 2°56'20 | 19°35 | 13°45 | 25°56 | 27°43 | 16°29 | 5°47 | 18°10 | 13°46 | 27°24 | 7°23 | 6° 7 | 24°25 | 17°37 |
| T 24 | 8 12 51 | 3°57'21 | 4♁ 9 | 15°28 | 27°11 | 27°35 | 16°32 | 5°49 | 18° 8 | 13°D46 | 27°24 | 7°17 | 6° 4 | 24°32 | 17°37 |
| W 25 | 8 16 48 | 4°58'21 | 18°17 | 17°11 | 28°26 | 27°27 | 16°35 | 5°51 | 18° 6 | 13°46 | 27°24 | 7°13 | 6° 1 | 24°39 | 17°37 |
| T 26 | 8 20 44 | 5°59'20 | 1♁59 | 18°53 | 29°42 | 27°21 | 16°38 | 5°53 | 18° 5 | 13°46 | 27°23 | 7°D12 | 5°57 | 24°46 | 17°D37 |
| F 27 | 8 24 41 | 7° 0'18 | 15°16 | 20°34 | 0♁57 | 27°15 | 16°41 | 5°55 | 18° 3 | 13°47 | 27°23 | 7°12 | 5°54 | 24°52 | 17°37 |
| S 28 | 8 28 37 | 8° 1'14 | 28°11 | 22°14 | 2°12 | 27°10 | 16°44 | 5°58 | 18° 1 | 13°47 | 27°23 | 7°13 | 5°51 | 24°59 | 17°37 |
| S 29 | 8 32 34 | 9° 2'09 | 10♁48 | 23°53 | 3°28 | 27° 6 | 16°48 | 6° 0 | 17°59 | 13°47 | 27°22 | 7°R13 | 5°48 | 25° 6 | 17°37 |
| M 30 | 8 36 30 | 10° 3'03 | 23°12 | 25°30 | 4°43 | 27° 3 | 16°52 | 6° 3 | 17°57 | 13°47 | 27°22 | 7°12 | 5°45 | 25°12 | 17°37 |
| T 31 | 8 40 27 | 11° 3'56 | 5♁24 | 27° 5 | 5♁58 | 27♁ 0 | 16♁56 | 6♁ 5 | 17♁55 | 13♁47 | 27♁22 | 7♁ 8 | 5♁41 | 25♁19 | 17♁37 |

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FEBRUARY 1882

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|--------|-------|------|--------|-------|--------|-------|------|-------|-------|
| W 1 | 8 44 23 | 12♁ 4'48 | 17♁29 | 28♁37 | 7♁13 | 26°R59 | 17♁ 0 | 6♁ 8 | 17°R54 | 13♁48 | 27°R22 | 7°R 1 | 5♁38 | 25♁26 | 17♁38 |
| T 2 | 8 48 20 | 13° 5'38 | 29°28 | 0♁ 6 | 8°29 | 26♁58 | 17° 5 | 6°11 | 17°52 | 13°48 | 27♁22 | 6♁52 | 5°35 | 25°33 | 17°38 |
| F 3 | 8 52 17 | 14° 6'27 | 11♁24 | 1°32 | 9°44 | 26°D58 | 17° 9 | 6°14 | 17°50 | 13°48 | 27°21 | 6°40 | 5°32 | 25°39 | 17°39 |
| S 4 | 8 56 13 | 15° 7'15 | 23°17 | 2°53 | 10°59 | 26°58 | 17°14 | 6°17 | 17°48 | 13°49 | 27°21 | 6°27 | 5°29 | 25°46 | 17°39 |
| S 5 | 9 0 10 | 16° 8'01 | 5♁10 | 4° 8 | 12°15 | 27° 0 | 17°19 | 6°20 | 17°45 | 13°49 | 27°21 | 6°13 | 5°26 | 25°53 | 17°40 |
| M 6 | 9 4 6 | 17° 8'47 | 17° 3 | 5°18 | 13°30 | 27° 2 | 17°24 | 6°23 | 17°43 | 13°49 | 27°21 | 6° 0 | 5°22 | 26° 0 | 17°41 |
| T 7 | 9 8 3 | 18° 9'31 | 28°58 | 6°21 | 14°45 | 27° 4 | 17°29 | 6°26 | 17°41 | 13°50 | 27°21 | 5°49 | 5°19 | 26° 6 | 17°41 |
| W 8 | 9 11 59 | 19°10'14 | 10♁58 | 7°17 | 16° 0 | 27° 8 | 17°35 | 6°30 | 17°39 | 13°50 | 27°21 | 5°40 | 5°16 | 26°13 | 17°42 |
| T 9 | 9 15 56 | 20°10'56 | 23° 5 | 8° 5 | 17°15 | 27°12 | 17°40 | 6°33 | 17°37 | 13°51 | 27°21 | 5°34 | 5°13 | 26°20 | 17°43 |
| F 10 | 9 19 52 | 21°11'38 | 5♁24 | 8°44 | 18°31 | 27°17 | 17°46 | 6°37 | 17°35 | 13°52 | 27°D21 | 5°31 | 5°10 | 26°26 | 17°44 |
| S 11 | 9 23 49 | 22°12'18 | 18° 0 | 9°14 | 19°46 | 27°22 | 17°52 | 6°40 | 17°32 | 13°52 | 27°21 | 5°D30 | 5° 7 | 26°33 | 17°45 |
| S 12 | 9 27 46 | 23°12'56 | 0♁55 | 9°33 | 21° 1 | 27°29 | 17°58 | 6°44 | 17°30 | 13°53 | 27°21 | 5°R30 | 5° 3 | 26°40 | 17°46 |
| M 13 | 9 31 42 | 24°13'34 | 14°16 | 9°R43 | 22°16 | 27°35 | 18° 5 | 6°48 | 17°28 | 13°53 | 27°21 | 5°30 | 5° 0 | 26°47 | 17°47 |
| T 14 | 9 35 39 | 25°14'11 | 28° 4 | 9°42 | 23°31 | 27°43 | 18°11 | 6°52 | 17°25 | 13°54 | 27°21 | 5°28 | 4°57 | 26°53 | 17°49 |
| W 15 | 9 39 35 | 26°14'46 | 12♁22 | 9°30 | 24°47 | 27°51 | 18°18 | 6°56 | 17°23 | 13°55 | 27°21 | 5°24 | 4°54 | 27° 0 | 17°50 |
| T 16 | 9 43 32 | 27°15'21 | 27° 8 | 9° 8 | 26° 2 | 28° 0 | 18°25 | 7° 0 | 17°21 | 13°56 | 27°21 | 5°17 | 4°51 | 27° 7 | 17°51 |
| F 17 | 9 47 28 | 28°15'53 | 12♁15 | 8°37 | 27°17 | 28° 9 | 18°32 | 7° 4 | 17°18 | 13°57 | 27°21 | 5° 8 | 4°47 | 27°13 | 17°53 |
| S 18 | 9 51 25 | 29°16'25 | 27°35 | 7°56 | 28°32 | 28°19 | 18°39 | 7° 9 | 17°16 | 13°57 | 27°22 | 4°57 | 4°44 | 27°20 | 17°54 |
| S 19 | 9 55 21 | 0♁16'54 | 12♁56 | 7° 8 | 29°47 | 28°29 | 18°46 | 7°13 | 17°13 | 13°58 | 27°22 | 4°45 | 4°41 | 27°27 | 17°56 |
| M 20 | 9 59 18 | 1°17'22 | 28° 6 | 6°14 | 1♁ 2 | 28°41 | 18°53 | 7°18 | 17°11 | 13°59 | 27°22 | 4°35 | 4°38 | 27°34 | 17°57 |
| T 21 | 10 3 15 | 2°17'48 | 12♁56 | 5°14 | 2°17 | 28°52 | 19° 1 | 7°22 | 17° 8 | 14° 0 | 27°22 | 4°26 | 4°35 | 27°40 | 17°59 |
| W 22 | 10 7 11 | 3°18'12 | 27°18 | 4°10 | 3°33 | 29° 4 | 19° 9 | 7°27 | 17° 6 | 14° 1 | 27°22 | 4°20 | 4°32 | 27°47 | 18° 1 |
| T 23 | 10 11 8 | 4°18'35 | 11♁11 | 3° 5 | 4°48 | 29°17 | 19°17 | 7°32 | 17° 3 | 14° 2 | 27°23 | 4°17 | 4°28 | 27°54 | 18° 2 |
| F 24 | 10 15 4 | 5°18'55 | 24°35 | 2° 0 | 6° 3 | 29°30 | 19°25 | 7°36 | 17° 1 | 14° 3 | 27°23 | 4°16 | 4°25 | 28° 1 | 18° 4 |
| S 25 | 10 19 1 | 6°19'14 | 7♁32 | 0°56 | 7°18 | 29°44 | 19°33 | 7°41 | 16°58 | 14° 4 | 27°23 | 4°15 | 4°22 | 28° 7 | 18° 6 |
| S 26 | 10 22 57 | 7°19'30 | 20° 8 | 29♁55 | 8°33 | 29°58 | 19°41 | 7°46 | 16°56 | 14° 5 | 27°24 | 4°15 | 4°19 | 28°14 | 18° 8 |
| M 27 | 10 26 54 | 8°19'45 | 2♁26 | 28°57 | 9°48 | 0♁13 | 19°50 | 7°51 | 16°53 | 14° 6 | 27°24 | 4°13 | 4°16 | 28°21 | 18°10 |
| T 28 | 10 30 50 | 9♁19'57 | 14♁33 | 28♁ 5 | 11♁ 3 | 0♁28 | 19♁58 | 7♁57 | 16♁50 | 14♁ 8 | 27♁24 | 4♁ 9 | 4♁13 | 28♁27 | 18♁12 |

Delta T = -5.31 sec.

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SWISS EPHEMERIS for the year 1882

MARCH 1882

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|------|----------|-----------|-------|--------|--------|-------|-------|-------|--------|-------|-------|-------|------|-------|-------|
| W 1 | 10 34 47 | 10♋20'08 | 26♌31 | 27°R19 | 12♋18 | 0♌44 | 20♌ 7 | 8♌ 2 | 16°R48 | 14♌ 9 | 27♌25 | 4°R 2 | 4♌ 9 | 28♌34 | 18♌14 |
| T 2 | 10 38 44 | 11°20'16 | 8♌24 | 26♌39 | 13°33 | 1° 0 | 20°16 | 8° 7 | 16♌45 | 14°10 | 27°25 | 3♌52 | 4° 6 | 28°41 | 18°16 |
| F 3 | 10 42 40 | 12°20'22 | 20°16 | 26° 5 | 14°48 | 1°17 | 20°25 | 8°12 | 16°43 | 14°11 | 27°26 | 3°40 | 4° 3 | 28°48 | 18°19 |
| S 4 | 10 46 37 | 13°20'27 | 2♌ 8 | 25°39 | 16° 2 | 1°34 | 20°34 | 8°18 | 16°40 | 14°13 | 27°26 | 3°26 | 4° 0 | 28°54 | 18°21 |
| S 5 | 10 50 33 | 14°20'29 | 14° 2 | 25°19 | 17°17 | 1°51 | 20°43 | 8°23 | 16°37 | 14°14 | 27°27 | 3°11 | 3°57 | 29° 1 | 18°23 |
| M 6 | 10 54 30 | 15°20'30 | 26° 0 | 25° 6 | 18°32 | 2° 9 | 20°52 | 8°29 | 16°35 | 14°15 | 27°27 | 2°57 | 3°53 | 29° 8 | 18°26 |
| T 7 | 10 58 26 | 16°20'29 | 8♌ 1 | 25°D 0 | 19°47 | 2°27 | 21° 2 | 8°35 | 16°32 | 14°17 | 27°28 | 2°45 | 3°50 | 29°14 | 18°28 |
| W 8 | 11 2 23 | 17°20'26 | 20° 9 | 25° 0 | 21° 2 | 2°46 | 21°11 | 8°40 | 16°30 | 14°18 | 27°28 | 2°36 | 3°47 | 29°21 | 18°31 |
| T 9 | 11 6 19 | 18°20'21 | 2♌24 | 25° 6 | 22°17 | 3° 5 | 21°21 | 8°46 | 16°27 | 14°19 | 27°29 | 2°29 | 3°44 | 29°28 | 18°33 |
| F 10 | 11 10 16 | 19°20'15 | 14°49 | 25°19 | 23°32 | 3°24 | 21°31 | 8°52 | 16°24 | 14°21 | 27°29 | 2°26 | 3°41 | 29°35 | 18°36 |
| S 11 | 11 14 12 | 20°20'07 | 27°27 | 25°36 | 24°46 | 3°44 | 21°41 | 8°58 | 16°22 | 14°22 | 27°30 | 2°D24 | 3°38 | 29°41 | 18°39 |
| S 12 | 11 18 9 | 21°19'57 | 10♌23 | 25°59 | 26° 1 | 4° 4 | 21°51 | 9° 4 | 16°19 | 14°24 | 27°31 | 2°24 | 3°34 | 29°48 | 18°41 |
| M13 | 11 22 6 | 22°19'45 | 23°38 | 26°27 | 27°16 | 4°25 | 22° 1 | 9°10 | 16°16 | 14°25 | 27°31 | 2°R25 | 3°31 | 29°55 | 18°44 |
| T 14 | 11 26 2 | 23°19'32 | 7♌18 | 26°59 | 28°31 | 4°45 | 22°11 | 9°16 | 16°14 | 14°27 | 27°32 | 2°24 | 3°28 | 0♌ 2 | 18°47 |
| W15 | 11 29 59 | 24°19'18 | 21°23 | 27°36 | 29°45 | 5° 7 | 22°22 | 9°22 | 16°11 | 14°28 | 27°33 | 2°21 | 3°25 | 0° 8 | 18°50 |
| T 16 | 11 33 55 | 25°19'01 | 5♌52 | 28°17 | 1°V 0 | 5°28 | 22°32 | 9°28 | 16° 9 | 14°30 | 27°33 | 2°16 | 3°22 | 0°15 | 18°53 |
| F 17 | 11 37 52 | 26°18'43 | 20°44 | 29° 1 | 2°15 | 5°50 | 22°43 | 9°35 | 16° 6 | 14°32 | 27°34 | 2° 8 | 3°18 | 0°22 | 18°56 |
| S 18 | 11 41 48 | 27°18'23 | 5♌50 | 29°49 | 3°29 | 6°12 | 22°54 | 9°41 | 16° 4 | 14°33 | 27°35 | 1°59 | 3°15 | 0°28 | 18°59 |
| S 19 | 11 45 45 | 28°18'01 | 21° 3 | 0♌41 | 4°44 | 6°34 | 23° 4 | 9°47 | 16° 1 | 14°35 | 27°35 | 1°49 | 3°12 | 0°35 | 19° 2 |
| M20 | 11 49 41 | 29°17'37 | 6°V10 | 1°35 | 5°59 | 6°57 | 23°15 | 9°54 | 15°58 | 14°37 | 27°36 | 1°40 | 3° 9 | 0°42 | 19° 5 |
| T 21 | 11 53 38 | 0°V17'11 | 21° 1 | 2°33 | 7°13 | 7°20 | 23°26 | 10° 0 | 15°56 | 14°38 | 27°37 | 1°32 | 3° 6 | 0°49 | 19° 8 |
| W22 | 11 57 35 | 1°16'43 | 5♌30 | 3°33 | 8°28 | 7°43 | 23°37 | 10° 7 | 15°53 | 14°40 | 27°38 | 1°27 | 3° 3 | 0°55 | 19°11 |
| T 23 | 12 1 31 | 2°16'12 | 19°30 | 4°36 | 9°42 | 8° 7 | 23°48 | 10°14 | 15°51 | 14°42 | 27°39 | 1°24 | 2°59 | 1° 2 | 19°14 |
| F 24 | 12 5 28 | 3°15'40 | 3♌ 2 | 5°41 | 10°57 | 8°31 | 24° 0 | 10°20 | 15°48 | 14°44 | 27°39 | 1°D24 | 2°56 | 1° 9 | 19°18 |
| S 25 | 12 9 24 | 4°15'05 | 16° 7 | 6°49 | 12°12 | 8°55 | 24°11 | 10°27 | 15°46 | 14°45 | 27°40 | 1°24 | 2°53 | 1°16 | 19°21 |
| S 26 | 12 13 21 | 5°14'28 | 28°47 | 7°59 | 13°26 | 9°19 | 24°23 | 10°34 | 15°44 | 14°47 | 27°41 | 1°25 | 2°50 | 1°22 | 19°24 |
| M27 | 12 17 17 | 6°13'48 | 11♌ 9 | 9°11 | 14°41 | 9°44 | 24°34 | 10°40 | 15°41 | 14°49 | 27°42 | 1°R25 | 2°47 | 1°29 | 19°28 |
| T 28 | 12 21 14 | 7°13'07 | 23°15 | 10°25 | 15°55 | 10° 8 | 24°46 | 10°47 | 15°39 | 14°51 | 27°43 | 1°24 | 2°44 | 1°36 | 19°31 |
| W29 | 12 25 10 | 8°12'23 | 5♌13 | 11°41 | 17° 9 | 10°34 | 24°57 | 10°54 | 15°36 | 14°53 | 27°44 | 1°20 | 2°40 | 1°42 | 19°34 |
| T 30 | 12 29 7 | 9°11'36 | 17° 5 | 12°59 | 18°24 | 10°59 | 25° 9 | 11° 1 | 15°34 | 14°55 | 27°45 | 1°14 | 2°37 | 1°49 | 19°38 |
| F 31 | 12 33 4 | 10°V10'47 | 28♌56 | 14♌19 | 19°V38 | 11♌24 | 25♌21 | 11♌ 8 | 15°V32 | 14♌57 | 27♌46 | 1♌ 6 | 2♌34 | 1♌56 | 19♌42 |

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APRIL 1882

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ |
|------|----------|-----------|--------|-------|--------|-------|-------|-------|--------|-------|-------|--------|------|------|-------|
| S 1 | 12 37 0 | 11°V 9'56 | 10♌50 | 15♌41 | 20°V53 | 11♌50 | 25♌33 | 11♌15 | 15°R29 | 14♌58 | 27♌47 | 0°R57 | 2♌31 | 2♌ 3 | 19♌45 |
| S 2 | 12 40 57 | 12° 9'03 | 22°47 | 17° 4 | 22° 7 | 12°16 | 25°45 | 11°22 | 15°27 | 15° 0 | 27°48 | 0♌48 | 2°28 | 2° 9 | 19°49 |
| M 3 | 12 44 53 | 13° 8'08 | 4♌51 | 18°29 | 23°21 | 12°42 | 25°57 | 11°29 | 15°25 | 15° 2 | 27°49 | 0°38 | 2°24 | 2°16 | 19°52 |
| T 4 | 12 48 50 | 14° 7'11 | 17° 2 | 19°56 | 24°35 | 13° 9 | 26° 9 | 11°36 | 15°23 | 15° 4 | 27°50 | 0°31 | 2°21 | 2°23 | 19°56 |
| W 5 | 12 52 46 | 15° 6'11 | 29°22 | 21°24 | 25°50 | 13°35 | 26°21 | 11°43 | 15°21 | 15° 6 | 27°51 | 0°25 | 2°18 | 2°29 | 20° 0 |
| T 6 | 12 56 43 | 16° 5'10 | 11♌11 | 22°54 | 27° 4 | 14° 2 | 26°34 | 11°51 | 15°18 | 15° 8 | 27°52 | 0°21 | 2°15 | 2°36 | 20° 3 |
| F 7 | 13 0 39 | 17° 4'07 | 24°31 | 24°26 | 28°18 | 14°29 | 26°46 | 11°58 | 15°16 | 15°10 | 27°53 | 0°D19 | 2°12 | 2°43 | 20° 7 |
| S 8 | 13 4 36 | 18° 3'02 | 7♌23 | 25°59 | 29°32 | 14°56 | 26°58 | 12° 5 | 15°14 | 15°12 | 27°54 | 0°19 | 2° 9 | 2°50 | 20°11 |
| S 9 | 13 8 32 | 19° 1'55 | 20°29 | 27°34 | 0♌46 | 15°24 | 27°11 | 12°12 | 15°12 | 15°15 | 27°55 | 0°20 | 2° 5 | 2°56 | 20°15 |
| M10 | 13 12 29 | 20° 0'47 | 3♌51 | 29°11 | 2° 1 | 15°51 | 27°24 | 12°20 | 15°10 | 15°17 | 27°56 | 0°22 | 2° 2 | 3° 3 | 20°19 |
| T 11 | 13 16 26 | 20°59'37 | 17°30 | 0°V48 | 3°15 | 16°19 | 27°36 | 12°27 | 15° 8 | 15°19 | 27°57 | 0°R22 | 1°59 | 3°10 | 20°23 |
| W12 | 13 20 22 | 21°58'25 | 1♌28 | 2°28 | 4°29 | 16°47 | 27°49 | 12°34 | 15° 6 | 15°21 | 27°58 | 0°22 | 1°56 | 3°17 | 20°26 |
| T 13 | 13 24 19 | 22°57'12 | 15°44 | 4° 9 | 5°43 | 17°15 | 28° 2 | 12°42 | 15° 4 | 15°23 | 28° 0 | 0°20 | 1°53 | 3°23 | 20°30 |
| F 14 | 13 28 15 | 23°55'56 | 0♌16 | 5°52 | 6°57 | 17°43 | 28°14 | 12°49 | 15° 2 | 15°25 | 28° 1 | 0°17 | 1°50 | 3°30 | 20°34 |
| S 15 | 13 32 12 | 24°54'39 | 14°59 | 7°36 | 8°11 | 18°12 | 28°27 | 12°57 | 15° 1 | 15°27 | 28° 2 | 0°12 | 1°46 | 3°37 | 20°38 |
| S 16 | 13 36 8 | 25°53'20 | 29°48 | 9°22 | 9°25 | 18°40 | 28°40 | 13° 4 | 14°59 | 15°29 | 28° 3 | 0° 7 | 1°43 | 3°43 | 20°42 |
| M17 | 13 40 5 | 26°52'00 | 14°V34 | 11° 9 | 10°39 | 19° 9 | 28°53 | 13°12 | 14°57 | 15°31 | 28° 4 | 0° 2 | 1°40 | 3°50 | 20°46 |
| T 18 | 13 44 1 | 27°50'37 | 29°10 | 12°58 | 11°53 | 19°38 | 29° 6 | 13°19 | 14°55 | 15°34 | 28° 5 | 29♌58 | 1°37 | 3°57 | 20°51 |
| W19 | 13 47 58 | 28°49'13 | 13♌29 | 14°49 | 13° 7 | 20° 7 | 29°19 | 13°27 | 14°54 | 15°36 | 28° 7 | 29°56 | 1°34 | 4° 4 | 20°55 |
| T 20 | 13 51 55 | 29°47'47 | 27°26 | 16°41 | 14°21 | 20°36 | 29°32 | 13°34 | 14°52 | 15°38 | 28° 8 | 29°D55 | 1°30 | 4°10 | 20°59 |
| F 21 | 13 55 51 | 0♌46'19 | 10♌19 | 18°35 | 15°35 | 21° 6 | 29°45 | 13°42 | 14°50 | 15°40 | 28° 9 | 29°55 | 1°27 | 4°17 | 21° 3 |
| S 22 | 13 59 48 | 1°44'48 | 24° 7 | 20°31 | 16°48 | 21°35 | 29°59 | 13°50 | 14°49 | 15°42 | 28°10 | 29°56 | 1°24 | 4°24 | 21° 7 |
| S 23 | 14 3 44 | 2°43'16 | 6♌52 | 22°28 | 18° 2 | 22° 5 | 0♌12 | 13°57 | 14°47 | 15°45 | 28°11 | 29°58 | 1°21 | 4°30 | 21°11 |
| M24 | 14 7 41 | 3°41'41 | 19°18 | 24°27 | 19°16 | 22°35 | 0°25 | 14° 5 | 14°46 | 15°47 | 28°13 | 29°59 | 1°18 | 4°37 | 21°15 |
| T 25 | 14 11 37 | 4°40'05 | 1♌28 | 26°27 | 20°30 | 23° 5 | 0°39 | 14°12 | 14°45 | 15°49 | 28°14 | 0°R 0 | 1°15 | 4°44 | 21°20 |
| W26 | 14 15 34 | 5°38'26 | 13°28 | 28°29 | 21°43 | 23°35 | 0°52 | 14°20 | 14°43 | 15°51 | 28°15 | 0♌ 0 | 1°11 | 4°51 | 21°24 |
| T 27 | 14 19 30 | 6°36'45 | 25°22 | 0♌32 | 22°57 | 24° 5 | 1° 5 | 14°28 | 14°42 | 15°53 | 28°16 | 29♌59 | 1° 8 | 4°57 | 21°28 |
| F 28 | 14 23 27 | 7°35'02 | 7♌14 | 2°36 | 24°11 | 24°35 | 1°19 | 14°35 | 14°41 | 15°56 | 28°18 | 29°56 | 1° 5 | 5° 4 | 21°32 |
| S 29 | 14 27 24 | 8°33'17 | 19° 9 | 4°42 | 25°25 | 25° 6 | 1°32 | 14°43 | 14°39 | 15°58 | 28°19 | 29°53 | 1° 2 | 5°11 | 21°36 |
| S 30 | 14 31 20 | 9♌31'30 | 1♌10 | 6♌49 | 26♌38 | 25♌36 | 1♌46 | 14♌51 | 14♌38 | 16♌ 0 | 28♌20 | 29♌50 | 0♌59 | 5♌18 | 21♌41 |

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SWISS EPHEMERIS for the year 1882

MAY 1882

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ |
|------|----------|----------|-------|-------|-------|-------|------|-------|--------|-------|-------|--------|-------|------|-------|
| M 1 | 14 35 17 | 10♂29'41 | 13♂21 | 8♂57 | 27♂52 | 26♂7 | 1♂59 | 14♂59 | 14°R37 | 16♂2 | 28♂22 | 29°R47 | 0♂755 | 5♂24 | 21♂45 |
| T 2 | 14 39 13 | 11°27'50 | 25°42 | 11°6 | 29°5 | 26°38 | 2°13 | 15°6 | 14♂36 | 16°5 | 28°23 | 29♂44 | 0°52 | 5°31 | 21°49 |
| W 3 | 14 43 10 | 12°25'58 | 8♂16 | 13°16 | 0♂19 | 27°9 | 2°27 | 15°14 | 14°35 | 16°7 | 28°24 | 29°43 | 0°49 | 5°38 | 21°54 |
| T 4 | 14 47 6 | 13°24'04 | 21°3 | 15°26 | 1°32 | 27°40 | 2°40 | 15°22 | 14°34 | 16°9 | 28°26 | 29°42 | 0°46 | 5°44 | 21°58 |
| F 5 | 14 51 3 | 14°22'08 | 4♂4 | 17°36 | 2°46 | 28°11 | 2°54 | 15°29 | 14°33 | 16°11 | 28°27 | 29°D41 | 0°43 | 5°51 | 22°2 |
| S 6 | 14 54 59 | 15°20'10 | 17°18 | 19°46 | 3°59 | 28°42 | 3°8 | 15°37 | 14°32 | 16°14 | 28°28 | 29°42 | 0°40 | 5°58 | 22°6 |
| S 7 | 14 58 56 | 16°18'12 | 0♂45 | 21°55 | 5°13 | 29°14 | 3°21 | 15°45 | 14°31 | 16°16 | 28°29 | 29°43 | 0°36 | 6°5 | 22°11 |
| M 8 | 15 2 53 | 17°16'12 | 14°24 | 24°4 | 6°26 | 29°45 | 3°35 | 15°52 | 14°31 | 16°18 | 28°31 | 29°44 | 0°33 | 6°11 | 22°15 |
| T 9 | 15 6 49 | 18°14'10 | 28°15 | 26°12 | 7°39 | 0♂17 | 3°49 | 16°0 | 14°30 | 16°20 | 28°32 | 29°45 | 0°30 | 6°18 | 22°19 |
| W10 | 15 10 46 | 19°12'07 | 12♂17 | 28°19 | 8°53 | 0°48 | 4°3 | 16°8 | 14°29 | 16°23 | 28°34 | 29°45 | 0°27 | 6°25 | 22°24 |
| T 11 | 15 14 42 | 20°10'03 | 26°28 | 0♂24 | 10°6 | 1°20 | 4°17 | 16°16 | 14°29 | 16°25 | 28°35 | 29°R45 | 0°24 | 6°32 | 22°28 |
| F 12 | 15 18 39 | 21°7'58 | 10♂46 | 2°28 | 11°19 | 1°52 | 4°30 | 16°23 | 14°28 | 16°27 | 28°36 | 29°45 | 0°21 | 6°38 | 22°33 |
| S 13 | 15 22 35 | 22°5'51 | 25°8 | 4°29 | 12°33 | 2°24 | 4°44 | 16°31 | 14°27 | 16°29 | 28°38 | 29°44 | 0°17 | 6°45 | 22°37 |
| S 14 | 15 26 32 | 23°3'43 | 9♂30 | 6°28 | 13°46 | 2°56 | 4°58 | 16°39 | 14°27 | 16°32 | 28°39 | 29°43 | 0°14 | 6°52 | 22°41 |
| M15 | 15 30 28 | 24°1'34 | 23°49 | 8°25 | 14°59 | 3°28 | 5°12 | 16°46 | 14°27 | 16°34 | 28°40 | 29°43 | 0°11 | 6°58 | 22°46 |
| T 16 | 15 34 25 | 24°59'24 | 7♂58 | 10°19 | 16°12 | 4°0 | 5°26 | 16°54 | 14°26 | 16°36 | 28°42 | 29°42 | 0°8 | 7°5 | 22°50 |
| W17 | 15 38 22 | 25°57'12 | 21°55 | 12°11 | 17°25 | 4°33 | 5°40 | 17°2 | 14°26 | 16°38 | 28°43 | 29°42 | 0°5 | 7°12 | 22°54 |
| T 18 | 15 42 18 | 26°54'59 | 5♂36 | 14°0 | 18°39 | 5°5 | 5°54 | 17°9 | 14°26 | 16°41 | 28°44 | 29°D42 | 0°1 | 7°19 | 22°59 |
| F 19 | 15 46 15 | 27°52'45 | 18°58 | 15°45 | 19°52 | 5°38 | 6°8 | 17°17 | 14°25 | 16°43 | 28°46 | 29°42 | 29♂58 | 7°25 | 23°3 |
| S 20 | 15 50 11 | 28°50'29 | 2♂1 | 17°28 | 21°5 | 6°10 | 6°22 | 17°25 | 14°25 | 16°45 | 28°47 | 29°42 | 29°55 | 7°32 | 23°7 |
| S 21 | 15 54 8 | 29°48'12 | 14°45 | 19°8 | 22°18 | 6°43 | 6°36 | 17°32 | 14°25 | 16°47 | 28°48 | 29°R42 | 29°52 | 7°39 | 23°12 |
| M22 | 15 58 4 | 0♂45'53 | 27°11 | 20°44 | 23°31 | 7°16 | 6°50 | 17°40 | 14°D25 | 16°50 | 28°50 | 29°42 | 29°49 | 7°45 | 23°16 |
| T 23 | 16 2 1 | 1°43'33 | 9♂23 | 22°17 | 24°44 | 7°49 | 7°4 | 17°47 | 14°25 | 16°52 | 28°51 | 29°42 | 29°46 | 7°52 | 23°20 |
| W24 | 16 5 57 | 2°41'11 | 21°25 | 23°48 | 25°57 | 8°22 | 7°18 | 17°55 | 14°25 | 16°54 | 28°52 | 29°42 | 29°42 | 7°59 | 23°25 |
| T 25 | 16 9 54 | 3°38'48 | 3♂20 | 25°14 | 27°10 | 8°55 | 7°32 | 18°2 | 14°25 | 16°56 | 28°54 | 29°D42 | 29°39 | 8°6 | 23°29 |
| F 26 | 16 13 51 | 4°36'23 | 15°13 | 26°38 | 28°23 | 9°28 | 7°46 | 18°10 | 14°25 | 16°58 | 28°55 | 29°42 | 29°36 | 8°12 | 23°33 |
| S 27 | 16 17 47 | 5°33'57 | 27°9 | 27°58 | 29°36 | 10°1 | 8°0 | 18°18 | 14°26 | 17°0 | 28°57 | 29°42 | 29°33 | 8°19 | 23°38 |
| S 28 | 16 21 44 | 6°31'29 | 9♂12 | 29°15 | 0♂48 | 10°35 | 8°14 | 18°25 | 14°26 | 17°3 | 28°58 | 29°43 | 29°30 | 8°26 | 23°42 |
| M29 | 16 25 40 | 7°29'00 | 21°27 | 0♂28 | 2°1 | 11°8 | 8°28 | 18°32 | 14°26 | 17°5 | 28°59 | 29°44 | 29°27 | 8°33 | 23°46 |
| T 30 | 16 29 37 | 8°26'30 | 3♂55 | 1°38 | 3°14 | 11°41 | 8°42 | 18°40 | 14°27 | 17°7 | 29°1 | 29°44 | 29°23 | 8°39 | 23°50 |
| W31 | 16 33 33 | 9♂23'59 | 16♂41 | 2♂44 | 4♂27 | 12♂15 | 8♂56 | 18♂47 | 14♂27 | 17♂9 | 29♂2 | 29♂45 | 29♂20 | 8♂46 | 23♂55 |

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|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| T 1 | 16 37 30 | 10♂21'27 | 29♂45 | 3♂47 | 5♂39 | 12♂49 | 9♂10 | 18♂55 | 14♂28 | 17♂11 | 29♂3 | 29°R45 | 29♂17 | 8♂53 | 23♂59 |
| F 2 | 16 41 26 | 11°18'53 | 13♂7 | 4°46 | 6°52 | 13°22 | 9°24 | 19°2 | 14°28 | 17°13 | 29°5 | 29♂45 | 29°14 | 8°59 | 24°3 |
| S 3 | 16 45 23 | 12°16'19 | 26°46 | 5°41 | 8°5 | 13°56 | 9°38 | 19°9 | 14°29 | 17°15 | 29°6 | 29°44 | 29°11 | 9°6 | 24°7 |
| S 4 | 16 49 20 | 13°13'44 | 10♂40 | 6°32 | 9°17 | 14°30 | 9°52 | 19°17 | 14°29 | 17°17 | 29°7 | 29°43 | 29°7 | 9°13 | 24°12 |
| M 5 | 16 53 16 | 14°11'08 | 24°45 | 7°20 | 10°30 | 15°4 | 10°6 | 19°24 | 14°30 | 17°19 | 29°9 | 29°41 | 29°4 | 9°20 | 24°16 |
| T 6 | 16 57 13 | 15°8'31 | 8♂59 | 8°3 | 11°42 | 15°38 | 10°20 | 19°31 | 14°31 | 17°21 | 29°10 | 29°39 | 29°1 | 9°26 | 24°20 |
| W 7 | 17 1 9 | 16°5'54 | 23°16 | 8°43 | 12°55 | 16°12 | 10°34 | 19°38 | 14°32 | 17°24 | 29°11 | 29°38 | 28°58 | 9°33 | 24°24 |
| T 8 | 17 5 6 | 17°3'16 | 7♂33 | 9°18 | 14°7 | 16°46 | 10°48 | 19°46 | 14°33 | 17°26 | 29°12 | 29°37 | 28°55 | 9°40 | 24°28 |
| F 9 | 17 9 2 | 18°0'37 | 21°47 | 9°49 | 15°19 | 17°20 | 11°2 | 19°53 | 14°33 | 17°28 | 29°14 | 29°D37 | 28°52 | 9°46 | 24°32 |
| S 10 | 17 12 59 | 18°57'58 | 5♂56 | 10°16 | 16°32 | 17°54 | 11°16 | 20°0 | 14°34 | 17°30 | 29°15 | 29°37 | 28°48 | 9°53 | 24°36 |
| S 11 | 17 16 55 | 19°55'19 | 19°58 | 10°38 | 17°44 | 18°29 | 11°30 | 20°7 | 14°35 | 17°32 | 29°16 | 29°38 | 28°45 | 10°0 | 24°40 |
| M12 | 17 20 52 | 20°52'39 | 3♂50 | 10°56 | 18°57 | 19°3 | 11°44 | 20°14 | 14°37 | 17°34 | 29°18 | 29°40 | 28°42 | 10°7 | 24°44 |
| T 13 | 17 24 49 | 21°49'59 | 17°33 | 11°9 | 20°9 | 19°37 | 11°57 | 20°21 | 14°38 | 17°35 | 29°19 | 29°41 | 28°39 | 10°13 | 24°48 |
| W14 | 17 28 45 | 22°47'19 | 1♂4 | 11°17 | 21°21 | 20°12 | 12°11 | 20°28 | 14°39 | 17°37 | 29°20 | 29°R41 | 28°36 | 10°20 | 24°52 |
| T 15 | 17 32 42 | 23°44'38 | 14°21 | 11°R22 | 22°33 | 20°46 | 12°25 | 20°35 | 14°40 | 17°39 | 29°21 | 29°40 | 28°33 | 10°27 | 24°56 |
| F 16 | 17 36 38 | 24°41'56 | 27°25 | 11°21 | 23°45 | 21°21 | 12°39 | 20°42 | 14°41 | 17°41 | 29°23 | 29°39 | 28°29 | 10°34 | 25°0 |
| S 17 | 17 40 35 | 25°39'14 | 10♂15 | 11°16 | 24°58 | 21°56 | 12°53 | 20°48 | 14°43 | 17°43 | 29°24 | 29°35 | 28°26 | 10°40 | 25°4 |
| S 18 | 17 44 31 | 26°36'32 | 22°50 | 11°7 | 26°10 | 22°31 | 13°7 | 20°55 | 14°44 | 17°45 | 29°25 | 29°31 | 28°23 | 10°47 | 25°8 |
| M19 | 17 48 28 | 27°33'48 | 5♂12 | 10°53 | 27°22 | 23°5 | 13°20 | 21°2 | 14°45 | 17°47 | 29°26 | 29°27 | 28°20 | 10°54 | 25°12 |
| T 20 | 17 52 25 | 28°31'04 | 17°22 | 10°36 | 28°34 | 23°40 | 13°34 | 21°9 | 14°47 | 17°49 | 29°28 | 29°22 | 28°17 | 11°0 | 25°16 |
| W21 | 17 56 21 | 29°28'20 | 29°22 | 10°15 | 29°46 | 24°15 | 13°48 | 21°15 | 14°48 | 17°50 | 29°29 | 29°18 | 28°13 | 11°7 | 25°20 |
| T 22 | 18 0 18 | 0♂25'35 | 11♂17 | 9°50 | 0♂58 | 24°50 | 14°2 | 21°22 | 14°50 | 17°52 | 29°30 | 29°15 | 28°10 | 11°14 | 25°24 |
| F 23 | 18 4 14 | 1°22'49 | 23°9 | 9°22 | 2°10 | 25°25 | 14°15 | 21°28 | 14°52 | 17°54 | 29°31 | 29°14 | 28°7 | 11°21 | 25°27 |
| S 24 | 18 8 11 | 2°20'02 | 5♂4 | 8°52 | 3°21 | 26°1 | 14°29 | 21°35 | 14°53 | 17°56 | 29°32 | 29°D13 | 28°4 | 11°27 | 25°31 |
| S 25 | 18 12 7 | 3°17'15 | 17°7 | 8°19 | 4°33 | 26°36 | 14°42 | 21°41 | 14°55 | 17°57 | 29°34 | 29°14 | 28°1 | 11°34 | 25°35 |
| M26 | 18 16 4 | 4°14'28 | 29°21 | 7°45 | 5°45 | 27°11 | 14°56 | 21°48 | 14°57 | 17°59 | 29°35 | 29°16 | 27°58 | 11°41 | 25°38 |
| T 27 | 18 20 0 | 5°11'40 | 11♂52 | 7°9 | 6°57 | 27°46 | 15°10 | 21°54 | 14°59 | 18°1 | 29°36 | 29°17 | 27°54 | 11°47 | 25°42 |
| W28 | 18 23 57 | 6°8'52 | 24°43 | 6°33 | 8°8 | 28°22 | 15°23 | 22°0 | 15°0 | 18°2 | 29°37 | 29°R18 | 27°51 | 11°54 | 25°46 |
| T 29 | 18 27 53 | 7°6'03 | 7♂58 | 5°58 | 9°20 | 28°57 | 15°37 | 22°7 | 15°2 | 18°4 | 29°38 | 29°18 | 27°48 | 12°1 | 25°49 |
| F 30 | 18 31 50 | 8♂3'14 | 21♂36 | 5♂22 | 10♂31 | 29♂33 | 15♂50 | 22♂13 | 15♂4 | 18♂6 | 29♂39 | 29♂16 | 27♂45 | 12♂8 | 25♂53 |

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SWISS EPHEMERIS for the year 1882

JULY 1882

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|------|----------|------------------------|------------------------|---------------------|----------------------|-----------------------|-----------------------|---------------------|-----------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|---------------------|
| S 1 | 18 35 47 | 9 ^h 02'25" | 5 ^h 37' | 4 ^h R49 | 11 ^h Ω43 | 0 ^h mp 8 | 16 ^h II 3 | 22 ^h ♁19 | 15 ^h mp 6 | 18 ^h ♁ 7 | 29 ^h ♁40 | 29 ^h R13 | 27 ^h ml.42 | 12 ^h mp 14 | 25 ^h ♁56 |
| S 2 | 18 39 43 | 9 ^h 57'36" | 19 ^h 56' | 4 ^h ♁17 | 12 ^h 54 | 0 ^h 44 | 16 ^h 17 | 22 ^h 25 | 15 ^h 8 | 18 ^h 9 | 29 ^h 41 | 29 ^h ml. 7 | 27 ^h 39 | 12 ^h 21 | 26 ^h 0 |
| M 3 | 18 43 40 | 10 ^h 54'47" | 4 ^h 30' | 3 ^h 48 | 14 ^h 6 | 1 ^h 20 | 16 ^h 30 | 22 ^h 31 | 15 ^h 10 | 18 ^h 10 | 29 ^h 42 | 29 ^h 1 | 27 ^h 35 | 12 ^h 28 | 26 ^h 3 |
| T 4 | 18 47 36 | 11 ^h 51'58" | 19 ^h 10' | 3 ^h 22 | 15 ^h 17 | 1 ^h 55 | 16 ^h 43 | 22 ^h 37 | 15 ^h 13 | 18 ^h 12 | 29 ^h 43 | 28 ^h 55 | 27 ^h 32 | 12 ^h 34 | 26 ^h 6 |
| W 5 | 18 51 33 | 12 ^h 49'09" | 3 ^h 49' | 2 ^h 59 | 16 ^h 28 | 2 ^h 31 | 16 ^h 57 | 22 ^h 43 | 15 ^h 15 | 18 ^h 13 | 29 ^h 45 | 28 ^h 50 | 27 ^h 29 | 12 ^h 41 | 26 ^h 10 |
| T 6 | 18 55 29 | 13 ^h 46'20" | 18 ^h 22' | 2 ^h 40 | 17 ^h 39 | 3 ^h 7 | 17 ^h 10 | 22 ^h 49 | 15 ^h 17 | 18 ^h 15 | 29 ^h 46 | 28 ^h 45 | 27 ^h 26 | 12 ^h 48 | 26 ^h 13 |
| F 7 | 18 59 26 | 14 ^h 43'32" | 2 ^h 43' | 2 ^h 25 | 18 ^h 51 | 3 ^h 43 | 17 ^h 23 | 22 ^h 55 | 15 ^h 19 | 18 ^h 16 | 29 ^h 47 | 28 ^h 43 | 27 ^h 23 | 12 ^h 55 | 26 ^h 16 |
| S 8 | 19 3 23 | 15 ^h 40'44" | 16 ^h 50' | 2 ^h 15 | 20 ^h 2 | 4 ^h 19 | 17 ^h 36 | 23 ^h 0 | 15 ^h 21 | 18 ^h 18 | 29 ^h 48 | 28 ^h D42 | 27 ^h 19 | 13 ^h 1 | 26 ^h 20 |
| S 9 | 19 7 19 | 16 ^h 37'57" | 0 ^h 31' | 2 ^h 10 | 21 ^h 13 | 4 ^h 55 | 17 ^h 49 | 23 ^h 6 | 15 ^h 24 | 18 ^h 19 | 29 ^h 49 | 28 ^h 43 | 27 ^h 16 | 13 ^h 8 | 26 ^h 23 |
| M10 | 19 11 16 | 17 ^h 35'10" | 14 ^h 17' | 2 ^h D10 | 22 ^h 24 | 5 ^h 31 | 18 ^h 2 | 23 ^h 11 | 15 ^h 26 | 18 ^h 20 | 29 ^h 50 | 28 ^h 44 | 27 ^h 13 | 13 ^h 15 | 26 ^h 26 |
| T 11 | 19 15 12 | 18 ^h 32'24" | 27 ^h 39' | 2 ^h 15 | 23 ^h 35 | 6 ^h 7 | 18 ^h 15 | 23 ^h 17 | 15 ^h 29 | 18 ^h 22 | 29 ^h 51 | 28 ^h R45 | 27 ^h 10 | 13 ^h 22 | 26 ^h 29 |
| W12 | 19 19 9 | 19 ^h 29'38" | 10 ^h II 47 | 2 ^h 26 | 24 ^h 46 | 6 ^h 43 | 18 ^h 28 | 23 ^h 22 | 15 ^h 31 | 18 ^h 23 | 29 ^h 51 | 28 ^h 44 | 27 ^h 7 | 13 ^h 28 | 26 ^h 32 |
| T 13 | 19 23 5 | 20 ^h 26'53" | 23 ^h 42' | 2 ^h 41 | 25 ^h 57 | 7 ^h 19 | 18 ^h 41 | 23 ^h 28 | 15 ^h 34 | 18 ^h 24 | 29 ^h 52 | 28 ^h 41 | 27 ^h 4 | 13 ^h 35 | 26 ^h 35 |
| F 14 | 19 27 2 | 21 ^h 24'08" | 6 ^h 26' | 3 ^h 2 | 27 ^h 7 | 7 ^h 56 | 18 ^h 54 | 23 ^h 33 | 15 ^h 36 | 18 ^h 26 | 29 ^h 53 | 28 ^h 36 | 27 ^h 0 | 13 ^h 42 | 26 ^h 38 |
| S 15 | 19 30 58 | 22 ^h 21'24" | 19 ^h 0' | 3 ^h 29 | 28 ^h 18 | 8 ^h 32 | 19 ^h 6 | 23 ^h 38 | 15 ^h 39 | 18 ^h 27 | 29 ^h 54 | 28 ^h 29 | 26 ^h 57 | 13 ^h 48 | 26 ^h 41 |
| S 16 | 19 34 55 | 23 ^h 18'40" | 1 ^h Ω22 | 4 ^h 1 | 29 ^h 29 | 9 ^h 8 | 19 ^h 19 | 23 ^h 43 | 15 ^h 41 | 18 ^h 28 | 29 ^h 55 | 28 ^h 20 | 26 ^h 54 | 13 ^h 55 | 26 ^h 44 |
| M17 | 19 38 52 | 24 ^h 15'56" | 13 ^h 35' | 4 ^h 38 | 0 ^h mp 39 | 9 ^h 45 | 19 ^h 32 | 23 ^h 49 | 15 ^h 44 | 18 ^h 29 | 29 ^h 56 | 28 ^h 10 | 26 ^h 51 | 14 ^h 2 | 26 ^h 47 |
| T 18 | 19 42 48 | 25 ^h 13'13" | 25 ^h 39' | 5 ^h 21 | 1 ^h 50 | 10 ^h 21 | 19 ^h 44 | 23 ^h 54 | 15 ^h 47 | 18 ^h 30 | 29 ^h 57 | 27 ^h 59 | 26 ^h 48 | 14 ^h 9 | 26 ^h 50 |
| W19 | 19 46 45 | 26 ^h 10'30" | 7 ^h mp 36 | 6 ^h 9 | 3 ^h 0 | 10 ^h 58 | 19 ^h 57 | 23 ^h 58 | 15 ^h 49 | 18 ^h 31 | 29 ^h 58 | 27 ^h 50 | 26 ^h 45 | 14 ^h 15 | 26 ^h 52 |
| T 20 | 19 50 41 | 27 ^h 7'47" | 19 ^h 28' | 7 ^h 3 | 4 ^h 11 | 11 ^h 35 | 20 ^h 9 | 24 ^h 3 | 15 ^h 52 | 18 ^h 32 | 29 ^h 58 | 27 ^h 42 | 26 ^h 41 | 14 ^h 22 | 26 ^h 55 |
| F 21 | 19 54 38 | 28 ^h 5'04" | 1 ^h Ω19 | 8 ^h 2 | 5 ^h 21 | 12 ^h 11 | 20 ^h 22 | 24 ^h 8 | 15 ^h 55 | 18 ^h 33 | 29 ^h 59 | 27 ^h 36 | 26 ^h 38 | 14 ^h 29 | 26 ^h 58 |
| S 22 | 19 58 34 | 29 ^h 2'22" | 13 ^h 12' | 9 ^h 6 | 6 ^h 31 | 12 ^h 48 | 20 ^h 34 | 24 ^h 13 | 15 ^h 58 | 18 ^h 35 | 0 ^h II 0 | 27 ^h 33 | 26 ^h 35 | 14 ^h 35 | 27 ^h 0 |
| S 23 | 20 2 31 | 29 ^h 59'41" | 25 ^h 12' | 10 ^h 14 | 7 ^h 42 | 13 ^h 25 | 20 ^h 46 | 24 ^h 17 | 16 ^h 1 | 18 ^h 36 | 0 ^h 1 | 27 ^h D31 | 26 ^h 32 | 14 ^h 42 | 27 ^h 3 |
| M24 | 20 6 27 | 0 ^h Ω56'59" | 7 ^h ml.24 | 11 ^h 28 | 8 ^h 52 | 14 ^h 2 | 20 ^h 59 | 24 ^h 22 | 16 ^h 4 | 18 ^h 36 | 0 ^h 2 | 27 ^h 31 | 26 ^h 29 | 14 ^h 49 | 27 ^h 5 |
| T 25 | 20 10 24 | 1 ^h 54'19" | 19 ^h 53' | 12 ^h 47 | 10 ^h 2 | 14 ^h 39 | 21 ^h 11 | 24 ^h 26 | 16 ^h 6 | 18 ^h 37 | 0 ^h 2 | 27 ^h 32 | 26 ^h 25 | 14 ^h 56 | 27 ^h 8 |
| W26 | 20 14 21 | 2 ^h 51'38" | 2 ^h ♁43 | 14 ^h 10 | 11 ^h 12 | 15 ^h 16 | 21 ^h 23 | 24 ^h 31 | 16 ^h 9 | 18 ^h 38 | 0 ^h 3 | 27 ^h R32 | 26 ^h 22 | 15 ^h 2 | 27 ^h 10 |
| T 27 | 20 18 17 | 3 ^h 48'58" | 16 ^h 0' | 15 ^h 38 | 12 ^h 22 | 15 ^h 53 | 21 ^h 35 | 24 ^h 35 | 16 ^h 12 | 18 ^h 39 | 0 ^h 4 | 27 ^h 31 | 26 ^h 19 | 15 ^h 9 | 27 ^h 12 |
| F 28 | 20 22 14 | 4 ^h 46'19" | 29 ^h 44' | 17 ^h 11 | 13 ^h 31 | 16 ^h 30 | 21 ^h 47 | 24 ^h 39 | 16 ^h 16 | 18 ^h 40 | 0 ^h 4 | 27 ^h 27 | 26 ^h 16 | 15 ^h 16 | 27 ^h 15 |
| S 29 | 20 26 10 | 5 ^h 43'40" | 13 ^h ♁56 | 18 ^h 47 | 14 ^h 41 | 17 ^h 7 | 21 ^h 59 | 24 ^h 43 | 16 ^h 19 | 18 ^h 41 | 0 ^h 5 | 27 ^h 21 | 26 ^h 13 | 15 ^h 22 | 27 ^h 17 |
| S 30 | 20 30 7 | 6 ^h 41'02" | 28 ^h 33' | 20 ^h 28 | 15 ^h 51 | 17 ^h 44 | 22 ^h 10 | 24 ^h 47 | 16 ^h 22 | 18 ^h 42 | 0 ^h 6 | 27 ^h 13 | 26 ^h 10 | 15 ^h 29 | 27 ^h 19 |
| M31 | 20 34 3 | 7 ^h Ω38'25" | 13 ^h 38'28" | 22 ^h Ω12 | 17 ^h mp 0 | 18 ^h mp 21 | 22 ^h II 22 | 24 ^h ♁51 | 16 ^h mp 25 | 18 ^h ♁42 | 0 ^h II 6 | 27 ^h ml. 3 | 26 ^h ml. 6 | 15 ^h mp 36 | 27 ^h ♁21 |

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AUGUST 1882

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ |
|------|----------|------------------------|------------------------|---------------------|-----------------------|-----------------------|-----------------------|---------------------|-----------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|---------------------|
| T 1 | 20 38 0 | 8 ^h Ω35'48" | 28 ^h 33'32" | 24 ^h Ω 0 | 18 ^h mp 10 | 18 ^h mp 58 | 22 ^h II 34 | 24 ^h ♁55 | 16 ^h mp 28 | 18 ^h ♁43 | 0 ^h II 7 | 26 ^h R53 | 26 ^h ml. 3 | 15 ^h mp 43 | 27 ^h ♁23 |
| W 2 | 20 41 56 | 9 ^h 33'13" | 13 ^h 33'35" | 25 ^h 51 | 19 ^h 19 | 19 ^h 36 | 22 ^h 45 | 24 ^h 59 | 16 ^h 31 | 18 ^h 44 | 0 ^h 8 | 26 ^h ml.44 | 26 ^h 0 | 15 ^h 49 | 27 ^h 25 |
| T 3 | 20 45 53 | 10 ^h 30'39" | 28 ^h 27' | 27 ^h 45 | 20 ^h 28 | 20 ^h 13 | 22 ^h 57 | 25 ^h 3 | 16 ^h 34 | 18 ^h 44 | 0 ^h 8 | 26 ^h 36 | 25 ^h 57 | 15 ^h 56 | 27 ^h 27 |
| F 4 | 20 49 50 | 11 ^h 28'05" | 13 ^h Y 3 | 29 ^h 41 | 21 ^h 38 | 20 ^h 50 | 23 ^h 8 | 25 ^h 6 | 16 ^h 38 | 18 ^h 45 | 0 ^h 9 | 26 ^h 31 | 25 ^h 54 | 16 ^h 3 | 27 ^h 29 |
| S 5 | 20 53 46 | 12 ^h 25'34" | 27 ^h 17' | 1 ^h Ω39 | 22 ^h 47 | 21 ^h 28 | 23 ^h 19 | 25 ^h 10 | 16 ^h 41 | 18 ^h 46 | 0 ^h 9 | 26 ^h 29 | 25 ^h 50 | 16 ^h 9 | 27 ^h 31 |
| S 6 | 20 57 43 | 13 ^h 23'03" | 11 ^h ♁ 9 | 3 ^h 39 | 23 ^h 56 | 22 ^h 5 | 23 ^h 31 | 25 ^h 13 | 16 ^h 44 | 18 ^h 46 | 0 ^h 10 | 26 ^h D28 | 25 ^h 47 | 16 ^h 16 | 27 ^h 33 |
| M 7 | 21 1 39 | 14 ^h 20'34" | 24 ^h 39' | 5 ^h 40 | 25 ^h 5 | 22 ^h 43 | 23 ^h 42 | 25 ^h 17 | 16 ^h 47 | 18 ^h 47 | 0 ^h 10 | 26 ^h R28 | 25 ^h 44 | 16 ^h 23 | 27 ^h 34 |
| T 8 | 21 5 36 | 15 ^h 18'06" | 7 ^h II 49 | 7 ^h 42 | 26 ^h 13 | 23 ^h 20 | 23 ^h 53 | 25 ^h 20 | 16 ^h 51 | 18 ^h 47 | 0 ^h 11 | 26 ^h 28 | 25 ^h 41 | 16 ^h 30 | 27 ^h 36 |
| W 9 | 21 9 32 | 16 ^h 15'40" | 20 ^h 42' | 9 ^h 45 | 27 ^h 22 | 23 ^h 58 | 24 ^h 4 | 25 ^h 23 | 16 ^h 54 | 18 ^h 48 | 0 ^h 11 | 26 ^h 26 | 25 ^h 38 | 16 ^h 36 | 27 ^h 38 |
| T 10 | 21 13 29 | 17 ^h 13'15" | 3 ^h Ω22 | 11 ^h 49 | 28 ^h 31 | 24 ^h 36 | 24 ^h 15 | 25 ^h 26 | 16 ^h 58 | 18 ^h 48 | 0 ^h 12 | 26 ^h 22 | 25 ^h 35 | 16 ^h 43 | 27 ^h 39 |
| F 11 | 21 17 25 | 18 ^h 10'51" | 15 ^h 50' | 13 ^h 52 | 29 ^h 39 | 25 ^h 14 | 24 ^h 25 | 25 ^h 29 | 17 ^h 1 | 18 ^h 48 | 0 ^h 12 | 26 ^h 14 | 25 ^h 31 | 16 ^h 50 | 27 ^h 41 |
| S 12 | 21 21 22 | 19 ^h 8'29" | 28 ^h 8' | 15 ^h 55 | 0 ^h Ω48 | 25 ^h 52 | 24 ^h 36 | 25 ^h 32 | 17 ^h 4 | 18 ^h 49 | 0 ^h 12 | 26 ^h 4 | 25 ^h 28 | 16 ^h 56 | 27 ^h 42 |
| S 13 | 21 25 19 | 20 ^h 6'08" | 10 ^h Ω18 | 17 ^h 58 | 1 ^h 56 | 26 ^h 29 | 24 ^h 47 | 25 ^h 35 | 17 ^h 8 | 18 ^h 49 | 0 ^h 13 | 25 ^h 52 | 25 ^h 25 | 17 ^h 3 | 27 ^h 44 |
| M14 | 21 29 15 | 21 ^h 3'48" | 22 ^h 22' | 20 ^h 0 | 3 ^h 4 | 27 ^h 7 | 24 ^h 57 | 25 ^h 37 | 17 ^h 11 | 18 ^h 49 | 0 ^h 13 | 25 ^h 38 | 25 ^h 22 | 17 ^h 10 | 27 ^h 45 |
| T 15 | 21 33 12 | 22 ^h 1'30" | 4 ^h mp 20 | 22 ^h 1 | 4 ^h 12 | 27 ^h 45 | 25 ^h 7 | 25 ^h 40 | 17 ^h 15 | 18 ^h 50 | 0 ^h 13 | 25 ^h 24 | 25 ^h 19 | 17 ^h 17 | 27 ^h 46 |
| W16 | 21 37 8 | 22 ^h 59'12" | 16 ^h 13' | 24 ^h 2 | 5 ^h 20 | 28 ^h 23 | 25 ^h 18 | 25 ^h 42 | 17 ^h 18 | 18< | | | | | |

SWISS EPHEMERIS for the year 1882

SEPTEMBER 1882

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|--------|-------|-------|-------|-------|--------|-------|--------|--------|---------|---------|-------|--------|
| F 1 | 22 40 13 | 8♂25'25 | 22♂27 | 23♂21 | 23♂9 | 8♂40 | 27♂47 | 26♂8 | 18♂17 | 18♂R49 | 0♂R16 | 23♂R37 | 24♂M.25 | 19♂11 | 27♂58 |
| S 2 | 22 44 10 | 9°23'31 | 6♂54 | 25° 0 | 24°15 | 9°19 | 27°55 | 26° 9 | 18°20 | 18♂49 | 0♂II16 | 23♂M.34 | 24°22 | 19°17 | 27°58 |
| S 3 | 22 48 6 | 10°21'39 | 20°54 | 26°38 | 25°20 | 9°58 | 28° 3 | 26° 9 | 18°24 | 18°48 | 0°16 | 23°D33 | 24°18 | 19°24 | 27°R58 |
| M 4 | 22 52 3 | 11°19'49 | 4♂II28 | 28°14 | 26°25 | 10°37 | 28°11 | 26°10 | 18°28 | 18°48 | 0°16 | 23°33 | 24°15 | 19°31 | 27°58 |
| T 5 | 22 55 59 | 12°18'01 | 17°37 | 29°50 | 27°30 | 11°16 | 28°19 | 26°10 | 18°32 | 18°47 | 0°16 | 23°R33 | 24°12 | 19°37 | 27°58 |
| W 6 | 22 59 56 | 13°16'15 | 0♂25 | 1♂24 | 28°35 | 11°55 | 28°27 | 26°10 | 18°35 | 18°47 | 0°16 | 23°32 | 24° 9 | 19°44 | 27°58 |
| T 7 | 23 3 52 | 14°14'32 | 12°57 | 2°57 | 29°39 | 12°34 | 28°35 | 26°11 | 18°39 | 18°47 | 0°15 | 23°29 | 24° 6 | 19°51 | 27°57 |
| F 8 | 23 7 49 | 15°12'50 | 25°15 | 4°29 | 0♂44 | 13°13 | 28°42 | 26°R11 | 18°43 | 18°46 | 0°15 | 23°23 | 24° 2 | 19°58 | 27°57 |
| S 9 | 23 11 45 | 16°11'10 | 7♂23 | 6° 0 | 1°48 | 13°53 | 28°49 | 26°11 | 18°47 | 18°45 | 0°15 | 23°14 | 23°59 | 20° 4 | 27°57 |
| S 10 | 23 15 42 | 17° 9'32 | 19°24 | 7°29 | 2°52 | 14°32 | 28°57 | 26°10 | 18°51 | 18°45 | 0°15 | 23° 3 | 23°56 | 20°11 | 27°56 |
| M11 | 23 19 39 | 18° 7'56 | 1♂20 | 8°58 | 3°56 | 15°12 | 29° 4 | 26°10 | 18°54 | 18°44 | 0°15 | 22°51 | 23°53 | 20°18 | 27°56 |
| T 12 | 23 23 35 | 19° 6'22 | 13°13 | 10°25 | 4°59 | 15°51 | 29°11 | 26°10 | 18°58 | 18°44 | 0°14 | 22°39 | 23°50 | 20°24 | 27°55 |
| W13 | 23 27 32 | 20° 4'50 | 25° 4 | 11°51 | 6° 2 | 16°31 | 29°17 | 26° 9 | 19° 2 | 18°43 | 0°14 | 22°27 | 23°47 | 20°31 | 27°55 |
| T 14 | 23 31 28 | 21° 3'20 | 6♂55 | 13°16 | 7° 5 | 17°10 | 29°24 | 26° 9 | 19° 6 | 18°42 | 0°14 | 22°17 | 23°43 | 20°38 | 27°54 |
| F 15 | 23 35 25 | 22° 1'51 | 18°47 | 14°39 | 8° 8 | 17°50 | 29°30 | 26° 8 | 19° 9 | 18°41 | 0°13 | 22°10 | 23°40 | 20°45 | 27°53 |
| S 16 | 23 39 21 | 23° 0'25 | 0♂43 | 16° 1 | 9°10 | 18°30 | 29°37 | 26° 7 | 19°13 | 18°41 | 0°13 | 22° 5 | 23°37 | 20°51 | 27°52 |
| S 17 | 23 43 18 | 23°59'00 | 12°45 | 17°22 | 10°13 | 19°10 | 29°43 | 26° 6 | 19°17 | 18°40 | 0°13 | 22° 3 | 23°34 | 20°58 | 27°52 |
| M18 | 23 47 14 | 24°57'37 | 24°58 | 18°42 | 11°15 | 19°49 | 29°49 | 26° 5 | 19°21 | 18°39 | 0°12 | 22°D 2 | 23°31 | 21° 5 | 27°51 |
| T 19 | 23 51 11 | 25°56'15 | 7♂24 | 20° 0 | 12°16 | 20°29 | 29°54 | 26° 4 | 19°25 | 18°38 | 0°12 | 22° 3 | 23°27 | 21°11 | 27°50 |
| W20 | 23 55 8 | 26°54'56 | 20° 9 | 21°17 | 13°18 | 21° 9 | 0♂0 | 26° 3 | 19°28 | 18°37 | 0°12 | 22° 4 | 23°24 | 21°18 | 27°49 |
| T 21 | 23 59 4 | 27°53'38 | 3♂16 | 22°32 | 14°19 | 21°49 | 0° 6 | 26° 1 | 19°32 | 18°36 | 0°11 | 22°R 4 | 23°21 | 21°25 | 27°48 |
| F 22 | 0 3 1 | 28°52'22 | 16°50 | 23°46 | 15°19 | 22°29 | 0°11 | 26° 0 | 19°36 | 18°35 | 0°11 | 22° 2 | 23°18 | 21°32 | 27°46 |
| S 23 | 0 6 57 | 29°51'07 | 0♂51 | 24°58 | 16°20 | 23° 9 | 0°16 | 25°58 | 19°40 | 18°35 | 0°10 | 21°59 | 23°15 | 21°38 | 27°45 |
| S 24 | 0 10 54 | 0♂49'54 | 15°21 | 26° 9 | 17°20 | 23°50 | 0°21 | 25°57 | 19°43 | 18°34 | 0°10 | 21°53 | 23°12 | 21°45 | 27°44 |
| M25 | 0 14 50 | 1°48'43 | 0♂14 | 27°17 | 18°19 | 24°30 | 0°26 | 25°55 | 19°47 | 18°33 | 0° 9 | 21°46 | 23° 8 | 21°52 | 27°42 |
| T 26 | 0 18 47 | 2°47'33 | 15°24 | 28°23 | 19°19 | 25°10 | 0°30 | 25°53 | 19°51 | 18°31 | 0° 9 | 21°39 | 23° 5 | 21°58 | 27°41 |
| W27 | 0 22 43 | 3°46'26 | 0♂42 | 29°28 | 20°18 | 25°50 | 0°35 | 25°51 | 19°54 | 18°30 | 0° 8 | 21°32 | 23° 2 | 22° 5 | 27°40 |
| T 28 | 0 26 40 | 4°45'20 | 15°55 | 0♂30 | 21°16 | 26°31 | 0°39 | 25°49 | 19°58 | 18°29 | 0° 8 | 21°26 | 22°59 | 22°12 | 27°38 |
| F 29 | 0 30 36 | 5°44'16 | 0♂54 | 1°29 | 22°14 | 27°11 | 0°43 | 25°47 | 20° 2 | 18°28 | 0° 7 | 21°22 | 22°56 | 22°18 | 27°36 |
| S 30 | 0 34 33 | 6°43'15 | 15♂32 | 2♂26 | 23♂12 | 27♂52 | 0♂47 | 25♂45 | 20♂5 | 18♂27 | 0♂II 6 | 21°D21 | 22♂M.53 | 22♂25 | 27♂35 |

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OCTOBER 1882

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|------|---------|-----------|---------|--------|---------|---------|-------|--------|-------|--------|--------|---------|---------|-------|--------|
| S 1 | 0 38 30 | 7♂42'16 | 29♂43 | 3♂M.20 | 24♂M. 9 | 28♂32 | 0♂51 | 25°R42 | 20♂9 | 18°R26 | 0°R 6 | 21♂M.21 | 22♂M.49 | 22♂32 | 27°R33 |
| M 2 | 0 42 26 | 8°41'20 | 13♂II25 | 4°11 | 25° 6 | 29°13 | 0°54 | 25♂40 | 20°13 | 18♂25 | 0°II 5 | 21°22 | 22°46 | 22°39 | 27♂31 |
| T 3 | 0 46 23 | 9°40'25 | 26°41 | 4°58 | 26° 2 | 29°53 | 0°58 | 25°37 | 20°16 | 18°23 | 0° 5 | 21°23 | 22°43 | 22°45 | 27°29 |
| W 4 | 0 50 19 | 10°39'33 | 9♂32 | 5°42 | 26°58 | 0♂M.34 | 1° 1 | 25°35 | 20°20 | 18°22 | 0° 4 | 21°R24 | 22°40 | 22°52 | 27°28 |
| T 5 | 0 54 16 | 11°38'44 | 22° 4 | 6°22 | 27°54 | 1°15 | 1° 4 | 25°32 | 20°24 | 18°21 | 0° 3 | 21°23 | 22°37 | 22°59 | 27°26 |
| F 6 | 0 58 12 | 12°37'56 | 4♂20 | 6°57 | 28°49 | 1°56 | 1° 7 | 25°29 | 20°27 | 18°20 | 0° 2 | 21°21 | 22°33 | 23° 5 | 27°24 |
| S 7 | 1 2 9 | 13°37'11 | 16°24 | 7°27 | 29°43 | 2°37 | 1° 9 | 25°26 | 20°31 | 18°18 | 0° 2 | 21°17 | 22°30 | 23°12 | 27°22 |
| S 8 | 1 6 5 | 14°36'28 | 28°20 | 7°52 | 0♂37 | 3°18 | 1°12 | 25°23 | 20°34 | 18°17 | 0° 1 | 21°12 | 22°27 | 23°19 | 27°19 |
| M 9 | 1 10 2 | 15°35'47 | 10♂12 | 8°12 | 1°30 | 3°59 | 1°14 | 25°20 | 20°38 | 18°16 | 0° 0 | 21° 5 | 22°24 | 23°25 | 27°17 |
| T 10 | 1 13 59 | 16°35'09 | 22° 3 | 8°25 | 2°22 | 4°40 | 1°16 | 25°17 | 20°41 | 18°14 | 29♂59 | 20°58 | 22°21 | 23°32 | 27°15 |
| W11 | 1 17 55 | 17°34'32 | 3♂55 | 8°R31 | 3°14 | 5°21 | 1°18 | 25°14 | 20°45 | 18°13 | 29°59 | 20°52 | 22°18 | 23°39 | 27°13 |
| T 12 | 1 21 52 | 18°33'58 | 15°49 | 8°30 | 4° 6 | 6° 2 | 1°19 | 25°11 | 20°48 | 18°12 | 29°58 | 20°47 | 22°14 | 23°46 | 27°10 |
| F 13 | 1 25 48 | 19°33'26 | 27°48 | 8°22 | 4°56 | 6°43 | 1°21 | 25° 7 | 20°52 | 18°10 | 29°57 | 20°43 | 22°11 | 23°52 | 27° 8 |
| S 14 | 1 29 45 | 20°32'56 | 9♂32 | 8° 5 | 5°46 | 7°25 | 1°22 | 25° 4 | 20°55 | 18° 9 | 29°56 | 20°41 | 22° 8 | 23°59 | 27° 6 |
| S 15 | 1 33 41 | 21°32'28 | 22° 5 | 7°40 | 6°36 | 8° 6 | 1°23 | 25° 0 | 20°59 | 18° 7 | 29°55 | 20°D41 | 22° 5 | 24° 6 | 27° 3 |
| M16 | 1 37 38 | 22°32'01 | 4♂28 | 7° 6 | 7°24 | 8°47 | 1°24 | 24°56 | 21° 2 | 18° 6 | 29°55 | 20°41 | 22° 2 | 24°12 | 27° 1 |
| T 17 | 1 41 34 | 23°31'37 | 17° 4 | 6°24 | 8°12 | 9°29 | 1°25 | 24°53 | 21° 5 | 18° 4 | 29°54 | 20°43 | 21°59 | 24°19 | 26°58 |
| W18 | 1 45 31 | 24°31'14 | 29°55 | 5°33 | 8°59 | 10°10 | 1°25 | 24°49 | 21° 9 | 18° 3 | 29°53 | 20°44 | 21°55 | 24°26 | 26°56 |
| T 19 | 1 49 28 | 25°30'54 | 13♂3 | 4°35 | 9°45 | 10°52 | 1°25 | 24°45 | 21°12 | 18° 1 | 29°52 | 20°46 | 21°52 | 24°32 | 26°53 |
| F 20 | 1 53 24 | 26°30'34 | 26°33 | 3°30 | 10°30 | 11°33 | 1°R25 | 24°41 | 21°15 | 18° 0 | 29°51 | 20°R46 | 21°49 | 24°39 | 26°50 |
| S 21 | 1 57 21 | 27°30'17 | 10♂25 | 2°20 | 11°14 | 12°15 | 1°25 | 24°37 | 21°19 | 17°58 | 29°50 | 20°46 | 21°46 | 24°46 | 26°48 |
| S 22 | 2 1 17 | 28°30'01 | 24°39 | 1° 6 | 11°57 | 12°57 | 1°25 | 24°33 | 21°22 | 17°57 | 29°49 | 20°44 | 21°43 | 24°53 | 26°45 |
| M23 | 2 5 14 | 29°29'47 | 9♂13 | 29♂50 | 12°39 | 13°39 | 1°24 | 24°29 | 21°25 | 17°55 | 29°48 | 20°42 | 21°39 | 24°59 | 26°42 |
| T 24 | 2 9 10 | 0♂M.29'34 | 24° 3 | 28°35 | 13°20 | 14°20 | 1°24 | 24°25 | 21°28 | 17°53 | 29°47 | 20°39 | 21°36 | 25° 6 | 26°39 |
| W25 | 2 13 7 | 1°29'24 | 9♂3 | 27°23 | 14° 0 | 15° 2 | 1°23 | 24°20 | 21°31 | 17°52 | 29°46 | 20°36 | 21°33 | 25°13 | 26°37 |
| T 26 | 2 17 3 | 2°29'15 | 24° 3 | 26°15 | 14°39 | 15°44 | 1°22 | 24°16 | 21°34 | 17°50 | 29°45 | 20°34 | 21°30 | 25°19 | 26°34 |
| F 27 | 2 21 0 | 3°29'08 | 8♂55 | 25°15 | 15°16 | 16°26 | 1°20 | 24°12 | 21°37 | 17°49 | 29°44 | 20°33 | 21°27 | 25°26 | 26°31 |
| S 28 | 2 24 57 | 4°29'03 | 23°31 | 24°24 | 15°53 | 17° 8 | 1°19 | 24° 7 | 21°40 | 17°47 | 29°43 | 20°D33 | 21°24 | 25°33 | 26°28 |
| S 29 | 2 28 53 | 5°29'00 | 7♂II45 | 23°42 | 16°28 | 17°51 | 1°17 | 24° 3 | 21°43 | 17°45 | 29°42 | 20°34 | 21°20 | 25°39 | 26°25 |
| M30 | 2 32 50 | 6°28'59 | 21°34 | 23°12 | 17° 1 | 18°33 | 1°15 | 23°58 | 21°46 | 17°44 | 29°41 | 20°35 | 21°17 | 25°46 | 26°22 |
| T 31 | 2 36 46 | 7♂M.29'01 | 4♂57 | 22♂54 | 17♂34 | 19♂M.15 | 1♂13 | 23♂54 | 21♂49 | 17♂42 | 29♂40 | 20♂M.36 | 21♂M.14 | 25♂53 | 26♂19 |

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SWISS EPHEMERIS for the year 1882

NOVEMBER 1882

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|------|---------|----------|-------|--------|--------|-------|-------|--------|-------|--------|--------|--------|-------|-------|--------|---|---|---|---|---|---|---|---|
| W 1 | 2 40 43 | 8♍29°04 | 17♌56 | 22°D46 | 18♌4 | 19♍57 | 1°R10 | 23°R49 | 21♎52 | 17°R40 | 29°R39 | 20♍37 | 21♍11 | 26♎0 | 26°R16 | | | | | | | | |
| T 2 | 2 44 39 | 9°29°10 | 0♈32 | 22♌51 | 18°34 | 20°40 | 1♌8 | 23♌45 | 21°55 | 17♌39 | 29♌38 | 20°37 | 21°8 | 26°6 | 26♌13 | | | | | | | | |
| F 3 | 2 48 36 | 10°29°17 | 12°50 | 23°6 | 19°1 | 21°22 | 1°5 | 23°40 | 21°58 | 17°37 | 29°37 | 20°R38 | 21°4 | 26°13 | 26°10 | | | | | | | | |
| S 4 | 2 52 32 | 11°29°27 | 24°55 | 23°31 | 19°27 | 22°4 | 1°2 | 23°35 | 22°1 | 17°35 | 29°36 | 20°37 | 21°1 | 26°20 | 26°6 | | | | | | | | |
| S 5 | 2 56 29 | 12°29°38 | 6♎50 | 24°5 | 19°52 | 22°47 | 0°59 | 23°30 | 22°3 | 17°34 | 29°35 | 20°37 | 20°58 | 26°26 | 26°3 | | | | | | | | |
| M 6 | 3 0 26 | 13°29°52 | 18°41 | 24°48 | 20°14 | 23°30 | 0°56 | 23°26 | 22°6 | 17°32 | 29°34 | 20°36 | 20°55 | 26°33 | 26°0 | | | | | | | | |
| T 7 | 3 4 22 | 14°30°08 | 0♌32 | 25°38 | 20°35 | 24°12 | 0°52 | 23°21 | 22°9 | 17°30 | 29°33 | 20°35 | 20°52 | 26°40 | 25°57 | | | | | | | | |
| W 8 | 3 8 19 | 15°30°25 | 12°25 | 26°35 | 20°54 | 24°55 | 0°49 | 23°16 | 22°11 | 17°29 | 29°32 | 20°34 | 20°49 | 26°46 | 25°54 | | | | | | | | |
| T 9 | 3 12 15 | 16°30°45 | 24°25 | 27°38 | 21°11 | 25°38 | 0°45 | 23°11 | 22°14 | 17°27 | 29°31 | 20°33 | 20°45 | 26°53 | 25°50 | | | | | | | | |
| F 10 | 3 16 12 | 17°31°06 | 6♍33 | 28°46 | 21°26 | 26°20 | 0°41 | 23°6 | 22°17 | 17°25 | 29°30 | 20°33 | 20°42 | 27°0 | 25°47 | | | | | | | | |
| S 11 | 3 20 8 | 18°31°29 | 18°50 | 29°58 | 21°39 | 27°3 | 0°36 | 23°2 | 22°19 | 17°23 | 29°28 | 20°D33 | 20°39 | 27°7 | 25°44 | | | | | | | | |
| S 12 | 3 24 5 | 19°31°54 | 1♌20 | 1♍14 | 21°50 | 27°46 | 0°32 | 22°57 | 22°22 | 17°22 | 29°27 | 20°33 | 20°36 | 27°13 | 25°41 | | | | | | | | |
| M13 | 3 28 1 | 20°32°21 | 14°1 | 2°34 | 21°58 | 28°29 | 0°27 | 22°52 | 22°24 | 17°20 | 29°26 | 20°R33 | 20°33 | 27°20 | 25°37 | | | | | | | | |
| T 14 | 3 31 58 | 21°32°49 | 26°56 | 3°55 | 22°5 | 29°12 | 0°22 | 22°47 | 22°26 | 17°18 | 29°25 | 20°33 | 20°30 | 27°27 | 25°34 | | | | | | | | |
| W15 | 3 35 55 | 22°33°18 | 10♌4 | 5°20 | 22°9 | 29°55 | 0°17 | 22°42 | 22°29 | 17°17 | 29°24 | 20°33 | 20°26 | 27°33 | 25°31 | | | | | | | | |
| T 16 | 3 39 51 | 23°33°49 | 23°26 | 6°46 | 22°R10 | 0♌38 | 0°12 | 22°37 | 22°31 | 17°15 | 29°23 | 20°32 | 20°23 | 27°40 | 25°28 | | | | | | | | |
| F 17 | 3 43 48 | 24°34°21 | 7♌2 | 8°13 | 22°10 | 1°22 | 0°7 | 22°32 | 22°33 | 17°13 | 29°22 | 20°32 | 20°20 | 27°47 | 25°24 | | | | | | | | |
| S 18 | 3 47 44 | 25°34°54 | 20°53 | 9°42 | 22°7 | 2°5 | 0°2 | 22°27 | 22°35 | 17°12 | 29°21 | 20°D32 | 20°17 | 27°53 | 25°21 | | | | | | | | |
| S 19 | 3 51 41 | 26°35°29 | 4♌56 | 11°12 | 22°1 | 2°48 | 29♍56 | 22°23 | 22°38 | 17°10 | 29°20 | 20°32 | 20°14 | 28°0 | 25°18 | | | | | | | | |
| M20 | 3 55 37 | 27°36°04 | 19°12 | 12°43 | 21°53 | 3°31 | 29°50 | 22°18 | 22°40 | 17°8 | 29°18 | 20°32 | 20°10 | 28°7 | 25°14 | | | | | | | | |
| T 21 | 3 59 34 | 28°36°41 | 3♌38 | 14°14 | 21°42 | 4°15 | 29°44 | 22°13 | 22°42 | 17°7 | 29°17 | 20°33 | 20°7 | 28°13 | 25°11 | | | | | | | | |
| W22 | 4 3 30 | 29°37°19 | 18°10 | 15°46 | 21°29 | 4°58 | 29°38 | 22°8 | 22°44 | 17°5 | 29°16 | 20°34 | 20°4 | 28°20 | 25°8 | | | | | | | | |
| T 23 | 4 7 27 | 0♌37°58 | 2♌43 | 17°19 | 21°14 | 5°42 | 29°32 | 22°3 | 22°46 | 17°3 | 29°15 | 20°35 | 20°1 | 28°27 | 25°5 | | | | | | | | |
| F 24 | 4 11 24 | 1°38°38 | 17°12 | 18°52 | 20°56 | 6°25 | 29°26 | 21°58 | 22°48 | 17°2 | 29°14 | 20°R35 | 19°58 | 28°34 | 25°1 | | | | | | | | |
| S 25 | 4 15 20 | 2°39°20 | 1♍32 | 20°25 | 20°35 | 7°9 | 29°19 | 21°54 | 22°50 | 17°0 | 29°13 | 20°35 | 19°55 | 28°40 | 24°58 | | | | | | | | |
| S 26 | 4 19 17 | 3°40°03 | 15°36 | 21°58 | 20°13 | 7°53 | 29°12 | 21°49 | 22°51 | 16°59 | 29°12 | 20°34 | 19°51 | 28°47 | 24°55 | | | | | | | | |
| M27 | 4 23 13 | 4°40°48 | 29°21 | 23°32 | 19°48 | 8°36 | 29°6 | 21°44 | 22°53 | 16°57 | 29°11 | 20°32 | 19°48 | 28°54 | 24°52 | | | | | | | | |
| T 28 | 4 27 10 | 5°41°33 | 12♌45 | 25°6 | 19°21 | 9°20 | 28°59 | 21°40 | 22°55 | 16°55 | 29°9 | 20°30 | 19°45 | 29°0 | 24°48 | | | | | | | | |
| W29 | 4 31 6 | 6°42°21 | 25°46 | 26°39 | 18°53 | 10°4 | 28°52 | 21°35 | 22°57 | 16°54 | 29°8 | 20°28 | 19°42 | 29°7 | 24°45 | | | | | | | | |
| T 30 | 4 35 3 | 7♌43°09 | 8♈27 | 28♍13 | 18♌23 | 10♌48 | 28♍45 | 21♌30 | 22♎58 | 16♌52 | 29♌7 | 20♍26 | 19♍39 | 29♎14 | 24♌42 | | | | | | | | |

Delta T = -5.51 sec.

DECEMBER 1882

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|---------|----------|-------|-------|--------|-------|--------|--------|--------|--------|-------|--------|-------|-------|--------|---|---|---|---|---|---|---|---|
| F 1 | 4 38 59 | 8♌43°59 | 20♈48 | 29♍47 | 17°R51 | 11♌32 | 28°R37 | 21°R26 | 23♎0 | 16°R51 | 29°R6 | 20°R24 | 19♍36 | 29♎20 | 24°R39 | | | | | | | | |
| S 2 | 4 42 56 | 9°44°50 | 2♎55 | 1♌21 | 17♌18 | 12°16 | 28♍30 | 21♌21 | 23°1 | 16♌49 | 29♌5 | 20°R23 | 19°32 | 29°27 | 24♌36 | | | | | | | | |
| S 3 | 4 46 53 | 10°45°43 | 14°52 | 2°55 | 16°43 | 13°0 | 28°23 | 21°17 | 23°3 | 16°48 | 29°4 | 20°D23 | 19°29 | 29°34 | 24°32 | | | | | | | | |
| M 4 | 4 50 49 | 11°46°37 | 26°43 | 4°28 | 16°8 | 13°44 | 28°15 | 21°12 | 23°4 | 16°46 | 29°3 | 20°23 | 19°26 | 29°40 | 24°29 | | | | | | | | |
| T 5 | 4 54 46 | 12°47°32 | 8♌34 | 6°2 | 15°32 | 14°28 | 28°8 | 21°8 | 23°6 | 16°45 | 29°2 | 20°25 | 19°23 | 29°47 | 24°26 | | | | | | | | |
| W 6 | 4 58 42 | 13°48°29 | 20°29 | 7°36 | 14°56 | 15°12 | 28°0 | 21°4 | 23°7 | 16°43 | 29°1 | 20°27 | 19°20 | 29°54 | 24°23 | | | | | | | | |
| T 7 | 5 2 39 | 14°49°27 | 2♍32 | 9°10 | 14°20 | 15°56 | 27°52 | 20°59 | 23°8 | 16°42 | 28°59 | 20°28 | 19°16 | 0♌1 | 24°20 | | | | | | | | |
| F 8 | 5 6 35 | 15°50°25 | 14°47 | 10°44 | 13°43 | 16°41 | 27°44 | 20°55 | 23°9 | 16°40 | 28°58 | 20°R29 | 19°13 | 0°7 | 24°17 | | | | | | | | |
| S 9 | 5 10 32 | 16°51°25 | 27°17 | 12°18 | 13°7 | 17°25 | 27°36 | 20°51 | 23°10 | 16°39 | 28°57 | 20°29 | 19°10 | 0°14 | 24°14 | | | | | | | | |
| S 10 | 5 14 28 | 17°52°26 | 10♌4 | 13°52 | 12°32 | 18°9 | 27°29 | 20°47 | 23°12 | 16°37 | 28°56 | 20°28 | 19°7 | 0°21 | 24°11 | | | | | | | | |
| M11 | 5 18 25 | 18°53°28 | 23°7 | 15°26 | 11°57 | 18°54 | 27°21 | 20°43 | 23°13 | 16°36 | 28°55 | 20°25 | 19°4 | 0°27 | 24°8 | | | | | | | | |
| T 12 | 5 22 22 | 19°54°31 | 6♌27 | 17°0 | 11°24 | 19°38 | 27°13 | 20°39 | 23°14 | 16°35 | 28°54 | 20°21 | 19°1 | 0°34 | 24°5 | | | | | | | | |
| W13 | 5 26 18 | 20°55°35 | 20°2 | 18°34 | 10°52 | 20°23 | 27°4 | 20°35 | 23°14 | 16°33 | 28°53 | 20°16 | 18°57 | 0°41 | 24°2 | | | | | | | | |
| T 14 | 5 30 15 | 21°56°38 | 3♌48 | 20°9 | 10°21 | 21°7 | 26°56 | 20°31 | 23°15 | 16°32 | 28°52 | 20°11 | 18°54 | 0°47 | 24°0 | | | | | | | | |
| F 15 | 5 34 11 | 22°57°43 | 17°44 | 21°43 | 9°52 | 21°52 | 26°48 | 20°28 | 23°16 | 16°31 | 28°51 | 20°6 | 18°51 | 0°54 | 23°57 | | | | | | | | |
| S 16 | 5 38 8 | 23°58°48 | 1♌47 | 23°18 | 9°24 | 22°37 | 26°40 | 20°24 | 23°17 | 16°29 | 28°50 | 20°3 | 18°48 | 1°1 | 23°54 | | | | | | | | |
| S 17 | 5 42 4 | 24°59°53 | 15°53 | 24°52 | 8°59 | 23°22 | 26°32 | 20°20 | 23°18 | 16°28 | 28°49 | 20°1 | 18°45 | 1°7 | 23°51 | | | | | | | | |
| M18 | 5 46 1 | 26°0°58 | 0♌2 | 26°27 | 8°36 | 24°6 | 26°24 | 20°17 | 23°18 | 16°27 | 28°48 | 20°D1 | 18°42 | 1°14 | 23°49 | | | | | | | | |
| T 19 | 5 49 57 | 27°0°04 | 14°11 | 28°2 | 8°15 | 24°51 | 26°16 | 20°13 | 23°19 | 16°26 | 28°47 | 20°2 | 18°38 | 1°21 | 23°46 | | | | | | | | |
| W20 | 5 53 54 | 28°3°09 | 28°18 | 29°37 | 7°56 | 25°36 | 26°7 | 20°10 | 23°19 | 16°25 | 28°46 | 20°3 | 18°35 | 1°28 | 23°44 | | | | | | | | |
| T 21 | 5 57 51 | 29°4°15 | 12♌23 | 1♌13 | 7°39 | 26°21 | 25°59 | 20°7 | 23°20 | 16°23 | 28°45 | 20°4 | 18°32 | 1°34 | 23°41 | | | | | | | | |
| F 22 | 6 1 47 | 0♌52 | 26°23 | 2°48 | 7°25 | 27°6 | 25°51 | 20°4 | 23°20 | 16°22 | 28°44 | 20°R4 | 18°29 | 1°41 | 23°39 | | | | | | | | |
| S 23 | 6 5 44 | 1°6°22 | 10♍15 | 4°24 | 7°14 | 27°51 | 25°43 | 20°1 | 23°21 | 16°21 | 28°43 | 20°3 | 18°26 | 1°48 | 23°36 | | | | | | | | |
| S 24 | 6 9 40 | 2°7°35 | 23°57 | 6°0 | 7°5 | 28°36 | 25°35 | 19°58 | 23°21 | 16°20 | 28°42 | 19°59 | 18°22 | 1°54 | 23°34 | | | | | | | | |
| M25 | 6 13 37 | 3°8°42 | 7♌26 | 7°36 | 6°58 | 29°21 | 25°27 | 19°55 | 23°21 | 16°19 | 28°41 | 19°53 | 18°19 | 2°1 | 23°31 | | | | | | | | |
| T 26 | 6 17 33 | 4°9°50 | 20°39 | 9°13 | 6°54 | 0♌6 | 25°19 | 19°52 | 23°21 | 16°18 | 28°40 | 19°45 | 18°16 | 2°8 | 23°29 | | | | | | | | |
| W27 | 6 21 30 | 5°10°58 | 3♈34 | 10°50 | 6°D53 | 0°51 | 25°11 | 19°49 | 23°21 | 16°17 | 28°40 | 19°37 | 18°13 | 2°14 | 23°27 | | | | | | | | |
| T 28 | 6 25 26 | 6°12°06 | 16°13 | 12°27 | 6°54 | 1°37 | 25°3 | 19°47 | 23°22 | 16°16 | 28°39 | 19°28 | 18°10 | 2°21 | 23°25 | | | | | | | | |
| F 29 | 6 29 23 | 7°13°14 | 28°34 | 14°4 | 6°57 | 2°22 | 24°55 | 19°44 | 23°R22 | 16°15 | 28°38 | 19°20 | 18°7 | 2°28 | 23°22 | | | | | | | | |
| S 30 | 6 33 20 | 8°14°23 | 10♎42 | 15°41 | 7°3 | 3°7 | 24°48 | 19°42 | 23°22 | 16°14 | 28°37 | 19°15 | 18°3 | 2°34 | 23°20 | | | | | | | | |
| S 31 | 6 37 16 | 9♌15°32 | 22♎39 | 17♌19 | 7♌11 | 3♌53 | 24♍40 | 19♌39 | 23♎21 | 16♌13 | 28♌36 | 19♍11 | 18♍0 | 2♌41 | 23♌18 | | | | | | | | |

Delta T = -5.53 sec.

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