

SWISS EPHEMERIS for the year 1250

JANUARY 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|----------|---------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|
| S 1 | 7 10 6 | 18♌7'37 | 5♌40 | 14♌21 | 1♌20 | 2♌10 | 26♌31 | 1♌22 | 28♌38 | 6♌R14 | 15♌M29 | 22♌R 2 | 20♌M30 | 16♌K43 | 6♌R32 |
| S 2 | 7 14 2 | 19° 8'43 | 18°46 | 16° 0 | 2°20 | 2°11 | 26°45 | 1°27 | 28°40 | 6♌E12 | 15°31 | 21♌M58 | 20°27 | 16°50 | 6♌B32 |
| M 3 | 7 17 59 | 20° 9'50 | 18°41 | 17°39 | 3°20 | 2°12 | 26°59 | 1°33 | 28°43 | 6°11 | 15°32 | 21°52 | 20°24 | 16°57 | 6°31 |
| T 4 | 7 21 55 | 21°10'55 | 14°25 | 19°19 | 4°21 | 2°14 | 27°13 | 1°38 | 28°46 | 6° 9 | 15°33 | 21°44 | 20°20 | 17° 3 | 6°31 |
| W 5 | 7 25 52 | 22°12'00 | 26°58 | 21° 0 | 5°22 | 2°18 | 27°27 | 1°44 | 28°49 | 6° 8 | 15°35 | 21°33 | 20°17 | 17°10 | 6°31 |
| T 6 | 7 29 49 | 23°13'04 | 9♌20 | 22°41 | 6°24 | 2°21 | 27°42 | 1°49 | 28°52 | 6° 6 | 15°36 | 21°21 | 20°14 | 17°17 | 6°30 |
| F 7 | 7 33 45 | 24°14'07 | 21°31 | 24°23 | 7°25 | 2°26 | 27°56 | 1°54 | 28°55 | 6° 4 | 15°37 | 21° 8 | 20°11 | 17°24 | 6°30 |
| S 8 | 7 37 42 | 25°15'09 | 3♌33 | 26° 5 | 8°28 | 2°31 | 28°10 | 1°59 | 28°58 | 6° 3 | 15°38 | 20°57 | 20° 8 | 17°30 | 6°D30 |
| S 9 | 7 41 38 | 26°16'09 | 15°28 | 27°48 | 9°30 | 2°37 | 28°24 | 2° 4 | 29° 1 | 6° 1 | 15°39 | 20°47 | 20° 4 | 17°37 | 6°30 |
| M10 | 7 45 35 | 27°17'09 | 27°18 | 29°32 | 10°33 | 2°43 | 28°39 | 2° 9 | 29° 4 | 6° 0 | 15°40 | 20°40 | 20° 1 | 17°44 | 6°31 |
| T 11 | 7 49 31 | 28°18'07 | 9♌Y 7 | 1♌16 | 11°36 | 2°51 | 28°53 | 2°14 | 29° 7 | 5°58 | 15°42 | 20°36 | 19°58 | 17°50 | 6°31 |
| W12 | 7 53 28 | 29°19'04 | 21° 1 | 3° 1 | 12°39 | 2°59 | 29° 7 | 2°19 | 29°10 | 5°56 | 15°43 | 20°34 | 19°55 | 17°57 | 6°31 |
| T 13 | 7 57 24 | 0♌20'00 | 3♌ 4 | 4°46 | 13°43 | 3° 7 | 29°21 | 2°24 | 29°13 | 5°55 | 15°44 | 20°D34 | 19°52 | 18° 4 | 6°31 |
| F 14 | 8 1 21 | 1°20'55 | 15°21 | 6°32 | 14°47 | 3°16 | 29°36 | 2°29 | 29°16 | 5°53 | 15°45 | 20°R34 | 19°49 | 18°10 | 6°32 |
| S 15 | 8 5 18 | 2°21'48 | 27°58 | 8°19 | 15°51 | 3°26 | 29°50 | 2°33 | 29°19 | 5°52 | 15°45 | 20°34 | 19°45 | 18°17 | 6°32 |
| S 16 | 8 9 14 | 3°22'39 | 11♌II 0 | 10° 5 | 16°56 | 3°36 | 0♌ 4 | 2°38 | 29°23 | 5°50 | 15°46 | 20°32 | 19°42 | 18°24 | 6°33 |
| M17 | 8 13 11 | 4°23'30 | 24°29 | 11°53 | 18° 1 | 3°47 | 0°18 | 2°43 | 29°26 | 5°49 | 15°47 | 20°28 | 19°39 | 18°31 | 6°33 |
| T 18 | 8 17 7 | 5°24'19 | 8♌E27 | 13°40 | 19° 6 | 3°59 | 0°32 | 2°47 | 29°29 | 5°48 | 15°48 | 20°21 | 19°36 | 18°37 | 6°34 |
| W19 | 8 21 4 | 6°25'06 | 22°52 | 15°28 | 20°11 | 4°11 | 0°47 | 2°51 | 29°32 | 5°46 | 15°49 | 20°12 | 19°33 | 18°44 | 6°34 |
| T 20 | 8 25 0 | 7°25'52 | 7♌Ω38 | 17°15 | 21°16 | 4°24 | 1° 1 | 2°56 | 29°36 | 5°45 | 15°50 | 20° 1 | 19°30 | 18°51 | 6°35 |
| F 21 | 8 28 57 | 8°26'37 | 22°37 | 19° 3 | 22°22 | 4°37 | 1°15 | 3° 0 | 29°39 | 5°43 | 15°50 | 19°49 | 19°26 | 18°57 | 6°36 |
| S 22 | 8 32 53 | 9°27'20 | 7♌P40 | 20°50 | 23°28 | 4°50 | 1°29 | 3° 4 | 29°42 | 5°42 | 15°51 | 19°38 | 19°23 | 19° 4 | 6°37 |
| S 23 | 8 36 50 | 10°28'03 | 22°37 | 22°36 | 24°34 | 5° 5 | 1°43 | 3° 8 | 29°45 | 5°41 | 15°52 | 19°30 | 19°20 | 19°11 | 6°38 |
| M24 | 8 40 47 | 11°28'44 | 7♌E19 | 24°22 | 25°41 | 5°19 | 1°58 | 3°12 | 29°49 | 5°39 | 15°52 | 19°23 | 19°17 | 19°18 | 6°39 |
| T 25 | 8 44 43 | 12°29'23 | 21°42 | 26° 6 | 26°47 | 5°34 | 2°12 | 3°16 | 29°52 | 5°38 | 15°53 | 19°20 | 19°14 | 19°24 | 6°40 |
| W26 | 8 48 40 | 13°30'02 | 5♌M43 | 27°49 | 27°54 | 5°50 | 2°26 | 3°20 | 29°55 | 5°37 | 15°53 | 19°19 | 19°10 | 19°31 | 6°41 |
| T 27 | 8 52 36 | 14°30'40 | 19°23 | 29°30 | 29° 1 | 6° 6 | 2°40 | 3°24 | 29°59 | 5°35 | 15°54 | 19°19 | 19° 7 | 19°38 | 6°42 |
| F 28 | 8 56 33 | 15°31'16 | 2♌A42 | 1♌ 8 | 0♌ 8 | 6°23 | 2°54 | 3°27 | 0♌ 2 | 5°34 | 15°54 | 19°19 | 19° 4 | 19°44 | 6°43 |
| S 29 | 9 0 29 | 16°31'51 | 15°45 | 2°43 | 1°15 | 6°40 | 3° 8 | 3°31 | 0° 5 | 5°33 | 15°55 | 19°17 | 19° 1 | 19°51 | 6°45 |
| S 30 | 9 4 26 | 17°32'25 | 28°34 | 4°15 | 2°23 | 6°57 | 3°22 | 3°34 | 0° 9 | 5°32 | 15°55 | 19°12 | 18°58 | 19°58 | 6°46 |
| M31 | 9 8 22 | 18♌32'58 | 11♌O10 | 5♌K43 | 3♌31 | 7♌I15 | 3♌36 | 3♌A38 | 0♌12 | 5♌E31 | 15♌M56 | 19♌M 5 | 18♌M55 | 20♌K 4 | 6♌B48 |

Delta T = 09m48s

Julian Calendar 1 Jan. 1250 == Greg. Calendar 8 Jan. 1250

FEBRUARY 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|--------|--------|-------|--------|------|-------|-------|-------|--------|--------|--------|--------|-------|
| T 1 | 9 12 19 | 19♌33'29 | 23♌E36 | 7♌K 6 | 4♌E38 | 7♌II33 | 3♌50 | 3♌A41 | 0♌K16 | 5°R30 | 15♌M56 | 18°R54 | 18♌M51 | 20♌K11 | 6♌B49 |
| W 2 | 9 16 16 | 20°33'58 | 5♌54 | 8°24 | 5°46 | 7°52 | 4° 4 | 3°44 | 0°19 | 5♌E28 | 15°56 | 18♌M41 | 18°48 | 20°18 | 6°51 |
| T 3 | 9 20 12 | 21°34'26 | 18° 3 | 9°35 | 6°54 | 8°11 | 4°18 | 3°47 | 0°22 | 5°27 | 15°57 | 18°26 | 18°45 | 20°25 | 6°52 |
| F 4 | 9 24 9 | 22°34'52 | 0♌K 6 | 10°40 | 8° 3 | 8°30 | 4°32 | 3°50 | 0°26 | 5°26 | 15°57 | 18°12 | 18°42 | 20°31 | 6°54 |
| S 5 | 9 28 5 | 23°35'17 | 12° 2 | 11°37 | 9°11 | 8°50 | 4°46 | 3°53 | 0°29 | 5°25 | 15°57 | 17°58 | 18°39 | 20°38 | 6°56 |
| S 6 | 9 32 2 | 24°35'39 | 23°54 | 12°27 | 10°19 | 9°10 | 5° 0 | 3°56 | 0°33 | 5°24 | 15°57 | 17°46 | 18°35 | 20°45 | 6°58 |
| M 7 | 9 35 58 | 25°36'00 | 5♌Y43 | 13° 8 | 11°28 | 9°31 | 5°14 | 3°59 | 0°36 | 5°23 | 15°57 | 17°36 | 18°32 | 20°51 | 6°59 |
| T 8 | 9 39 55 | 26°36'19 | 17°32 | 13°40 | 12°37 | 9°52 | 5°28 | 4° 2 | 0°40 | 5°22 | 15°57 | 17°30 | 18°29 | 20°58 | 7° 1 |
| W 9 | 9 43 51 | 27°36'36 | 29°25 | 14° 2 | 13°46 | 10°13 | 5°41 | 4° 4 | 0°43 | 5°21 | 15°57 | 17°27 | 18°26 | 21° 5 | 7° 3 |
| T 10 | 9 47 48 | 28°36'50 | 11♌B26 | 14°15 | 14°55 | 10°34 | 5°55 | 4° 7 | 0°46 | 5°21 | 15°R57 | 17°25 | 18°23 | 21°11 | 7° 5 |
| F 11 | 9 51 45 | 29°37'03 | 23°40 | 14°R19 | 16° 4 | 10°56 | 6° 9 | 4° 9 | 0°50 | 5°20 | 15°57 | 17°25 | 18°20 | 21°18 | 7° 7 |
| S 12 | 9 55 41 | 0♌K37'14 | 6♌II12 | 14°13 | 17°13 | 11°19 | 6°22 | 4°11 | 0°53 | 5°19 | 15°57 | 17°25 | 18°16 | 21°25 | 7°10 |
| S 13 | 9 59 38 | 1°37'22 | 19° 8 | 13°57 | 18°22 | 11°41 | 6°36 | 4°14 | 0°57 | 5°18 | 15°57 | 17°24 | 18°13 | 21°32 | 7°12 |
| M14 | 10 3 34 | 2°37'29 | 2♌E32 | 13°33 | 19°31 | 12° 4 | 6°50 | 4°16 | 1° 0 | 5°17 | 15°57 | 17°21 | 18°10 | 21°38 | 7°14 |
| T 15 | 10 7 31 | 3°37'33 | 16°25 | 13° 1 | 20°41 | 12°27 | 7° 3 | 4°18 | 1° 4 | 5°17 | 15°57 | 17°15 | 18° 7 | 21°45 | 7°16 |
| W16 | 10 11 27 | 4°37'35 | 0♌Ω49 | 12°21 | 21°50 | 12°50 | 7°17 | 4°20 | 1° 7 | 5°16 | 15°57 | 17° 7 | 18° 4 | 21°52 | 7°19 |
| T 17 | 10 15 24 | 5°37'35 | 15°39 | 11°35 | 23° 0 | 13°14 | 7°30 | 4°21 | 1°11 | 5°15 | 15°57 | 16°57 | 18° 1 | 21°58 | 7°21 |
| F 18 | 10 19 20 | 6°37'33 | 0♌P48 | 10°44 | 24°10 | 13°38 | 7°43 | 4°23 | 1°14 | 5°15 | 15°56 | 16°46 | 17°57 | 22° 5 | 7°23 |
| S 19 | 10 23 17 | 7°37'28 | 16° 6 | 9°49 | 25°20 | 14° 2 | 7°57 | 4°25 | 1°17 | 5°14 | 15°56 | 16°36 | 17°54 | 22°12 | 7°26 |
| S 20 | 10 27 14 | 8°37'22 | 1♌E21 | 8°51 | 26°30 | 14°27 | 8°10 | 4°26 | 1°21 | 5°13 | 15°56 | 16°28 | 17°51 | 22°18 | 7°29 |
| M21 | 10 31 10 | 9°37'14 | 16°23 | 7°52 | 27°40 | 14°51 | 8°23 | 4°28 | 1°24 | 5°13 | 15°55 | 16°22 | 17°48 | 22°25 | 7°31 |
| T 22 | 10 35 7 | 10°37'05 | 1♌L 4 | 6°53 | 28°50 | 15°16 | 8°36 | 4°29 | 1°28 | 5°12 | 15°55 | 16°19 | 17°45 | 22°32 | 7°34 |
| W23 | 10 39 3 | 11°36'53 | 15°20 | 5°55 | 0♌ 0 | 15°42 | 8°50 | 4°30 | 1°31 | 5°12 | 15°54 | 16°D18 | 17°41 | 22°39 | 7°36 |
| T 24 | 10 43 0 | 12°36'40 | 29° 9 | 5° 0 | 1°10 | 16° 7 | 9° 3 | 4°31 | 1°35 | 5°11 | 15°54 | 16°19 | 17°38 | 22°45 | 7°39 |
| F 25 | 10 46 56 | 13°36'25 | 12♌A33 | 4° 9 | 2°20 | 16°33 | 9°16 | 4°32 | 1°38 | 5°11 | 15°53 | 16°R19 | 17°35 | 22°52 | 7°42 |
| S 26 | 10 50 53 | 14°36'09 | 25°34 | 3°22 | 3°31 | 16°59 | 9°29 | 4°33 | 1°41 | 5°10 | 15°53 | 16°18 | 17°32 | 22°59 | 7°45 |
| S 27 | 10 54 49 | 15°35'50 | 8♌E16 | 2°40 | 4°41 | 17°25 | 9°42 | 4°34 | 1°45 | 5°10 | 15°52 | 16°16 | 17°29 | 23° 5 | 7°48 |
| M28 | 10 58 46 | 16♌35'30 | 20♌E43 | 2♌K 3 | 5♌52 | 17♌I51 | 9♌54 | 4♌A35 | 1♌K48 | 5♌E10 | 15♌M52 | 16♌M11 | 17♌M26 | 23♌K12 | 7♌B51 |

Delta T = 09m47s

Julian Calendar

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SWISS EPHEMERIS for the year 1250

MARCH 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|-----------|--------|--------|--------|---------|-------|-------|-------|-------|--------|--------|--------|--------|-------|
| T 1 | 11 2 43 | 17°35'08 | 28°58 | 1°R32 | 7°2 | 18°II18 | 10°7 | 4°36 | 1°51 | 5°R10 | 15°R51 | 16°R 3 | 17°M22 | 23°K19 | 7°S4 |
| W 2 | 11 6 39 | 18°34'45 | 15° 5 | 1°K 8 | 8°13 | 18°44 | 10°20 | 4°36 | 1°55 | 5°9 | 15°M51 | 15°M54 | 17°19 | 23°25 | 7°57 |
| T 3 | 11 10 36 | 19°34'19 | 27° 4 | 0°49 | 9°24 | 19°11 | 10°32 | 4°36 | 1°58 | 5° 9 | 15°50 | 15°43 | 17°16 | 23°32 | 8° 0 |
| F 4 | 11 14 32 | 20°33'51 | 8°K59 | 0°37 | 10°35 | 19°39 | 10°45 | 4°37 | 2° 1 | 5° 9 | 15°49 | 15°32 | 17°13 | 23°39 | 8° 3 |
| S 5 | 11 18 29 | 21°33'21 | 20°51 | 0°31 | 11°45 | 20° 6 | 10°58 | 4°37 | 2° 5 | 5° 9 | 15°48 | 15°21 | 17°10 | 23°46 | 8° 6 |
| S 6 | 11 22 25 | 22°32'49 | 2°Y41 | 0°D30 | 12°56 | 20°33 | 11°10 | 4°37 | 2° 8 | 5° 9 | 15°48 | 15°13 | 17° 7 | 23°52 | 8° 9 |
| M 7 | 11 26 22 | 23°32'15 | 14°31 | 0°36 | 14° 7 | 21° 1 | 11°22 | 4°R37 | 2°11 | 5° 8 | 15°47 | 15° 6 | 17° 3 | 23°59 | 8°12 |
| T 8 | 11 30 18 | 24°31'39 | 26°23 | 0°47 | 15°18 | 21°29 | 11°35 | 4°37 | 2°15 | 5° 8 | 15°46 | 15° 1 | 17° 0 | 24° 6 | 8°16 |
| W 9 | 11 34 15 | 25°31'01 | 8°R19 | 1° 3 | 16°29 | 21°57 | 11°47 | 4°37 | 2°18 | 5°D 8 | 15°45 | 14°59 | 16°57 | 24°12 | 8°19 |
| T 10 | 11 38 11 | 26°30'20 | 20°24 | 1°24 | 17°40 | 22°25 | 11°59 | 4°37 | 2°21 | 5° 8 | 15°44 | 14°D59 | 16°54 | 24°19 | 8°22 |
| F 11 | 11 42 8 | 27°29'37 | 2°II40 | 1°50 | 18°52 | 22°54 | 12°11 | 4°36 | 2°24 | 5° 8 | 15°43 | 15° 0 | 16°51 | 24°26 | 8°26 |
| S 12 | 11 46 5 | 28°28'52 | 15°13 | 2°20 | 20° 3 | 23°23 | 12°23 | 4°36 | 2°27 | 5° 9 | 15°42 | 15° 2 | 16°47 | 24°32 | 8°29 |
| S 13 | 11 50 1 | 29°28'04 | 28° 6 | 2°55 | 21°14 | 23°51 | 12°35 | 4°35 | 2°31 | 5° 9 | 15°41 | 15°R 2 | 16°44 | 24°39 | 8°33 |
| M14 | 11 53 58 | 0°Y27'15 | 11°E23 | 3°33 | 22°25 | 24°20 | 12°47 | 4°35 | 2°34 | 5° 9 | 15°40 | 15° 2 | 16°41 | 24°46 | 8°36 |
| T 15 | 11 57 54 | 1°26'22 | 25° 7 | 4°16 | 23°36 | 24°49 | 12°59 | 4°34 | 2°37 | 5° 9 | 15°39 | 14°59 | 16°38 | 24°52 | 8°40 |
| W16 | 12 1 51 | 2°25'28 | 9°O20 | 5° 2 | 24°48 | 25°19 | 13°10 | 4°33 | 2°40 | 5° 9 | 15°38 | 14°55 | 16°35 | 24°59 | 8°43 |
| T 17 | 12 5 47 | 3°24'30 | 23°59 | 5°52 | 25°59 | 25°48 | 13°22 | 4°32 | 2°43 | 5° 9 | 15°37 | 14°50 | 16°32 | 25° 6 | 8°47 |
| F 18 | 12 9 44 | 4°23'31 | 9°M 0 | 6°44 | 27°11 | 26°17 | 13°33 | 4°31 | 2°46 | 5°10 | 15°36 | 14°44 | 16°28 | 25°13 | 8°50 |
| S 19 | 12 13 40 | 5°22'29 | 24°13 | 7°40 | 28°22 | 26°47 | 13°45 | 4°30 | 2°49 | 5°10 | 15°35 | 14°38 | 16°25 | 25°19 | 8°54 |
| S 20 | 12 17 37 | 6°21'26 | 9°O30 | 8°39 | 29°33 | 27°17 | 13°56 | 4°29 | 2°52 | 5°10 | 15°34 | 14°33 | 16°22 | 25°26 | 8°58 |
| M21 | 12 21 34 | 7°20'20 | 24°38 | 9°40 | 0°K45 | 27°47 | 14° 7 | 4°27 | 2°55 | 5°11 | 15°32 | 14°30 | 16°19 | 25°33 | 9° 1 |
| T 22 | 12 25 30 | 8°19'12 | 9°M30 | 10°44 | 1°57 | 28°17 | 14°18 | 4°26 | 2°58 | 5°11 | 15°31 | 14°D29 | 16°16 | 25°39 | 9° 5 |
| W23 | 12 29 27 | 9°18'02 | 23°58 | 11°51 | 3° 8 | 28°47 | 14°29 | 4°24 | 3° 1 | 5°12 | 15°30 | 14°29 | 16°12 | 25°46 | 9° 9 |
| T 24 | 12 33 23 | 10°16'51 | 7°K59 | 13° 0 | 4°20 | 29°17 | 14°40 | 4°23 | 3° 4 | 5°12 | 15°29 | 14°30 | 16° 9 | 25°53 | 9°13 |
| F 25 | 12 37 20 | 11°15'38 | 21°33 | 14°12 | 5°31 | 29°48 | 14°51 | 4°21 | 3° 7 | 5°13 | 15°27 | 14°32 | 16° 6 | 25°59 | 9°17 |
| S 26 | 12 41 16 | 12°14'23 | 4°Z41 | 15°25 | 6°43 | 0°E18 | 15° 2 | 4°19 | 3°10 | 5°13 | 15°26 | 14°33 | 16° 3 | 26° 6 | 9°20 |
| S 27 | 12 45 13 | 13°13'07 | 17°26 | 16°41 | 7°55 | 0°49 | 15°13 | 4°17 | 3°13 | 5°14 | 15°25 | 14°R33 | 16° 0 | 26°13 | 9°24 |
| M28 | 12 49 9 | 14°11'48 | 29°53 | 17°59 | 9° 7 | 1°20 | 15°23 | 4°15 | 3°15 | 5°14 | 15°23 | 14°32 | 15°57 | 26°19 | 9°28 |
| T 29 | 12 53 6 | 15°10'28 | 12°5 | 19°19 | 10°18 | 1°51 | 15°33 | 4°13 | 3°18 | 5°15 | 15°22 | 14°29 | 15°53 | 26°26 | 9°32 |
| W30 | 12 57 3 | 16° 9'06 | 24° 6 | 20°41 | 11°30 | 2°22 | 15°44 | 4°11 | 3°21 | 5°16 | 15°21 | 14°26 | 15°50 | 26°33 | 9°36 |
| T 31 | 13 0 59 | 17°Y 7'43 | 6°K 0 | 22°K 5 | 12°K42 | 2°E53 | 15°54 | 4°K 9 | 3°K24 | 5°E16 | 15°M19 | 14°M21 | 15°M47 | 26°K40 | 9°K40 |

Delta T = 09m47s Julian Calendar 1 March 1250 == Greg. Calendar 8 March 1250

APRIL 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|-----------|---------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| F 1 | 13 4 56 | 18°Y 6'17 | 17°K51 | 23°K30 | 13°K54 | 3°E24 | 16°4 | 4°R 7 | 3°K26 | 5°E17 | 15°R18 | 14°R16 | 15°M44 | 26°K46 | 9°K44 |
| S 2 | 13 8 52 | 19° 4'50 | 29°40 | 24°58 | 15° 6 | 3°55 | 16°14 | 4°K 4 | 3°29 | 5°18 | 15°M16 | 14°M12 | 15°41 | 26°53 | 9°48 |
| S 3 | 13 12 49 | 20° 3'21 | 11°Y31 | 26°28 | 16°18 | 4°27 | 16°24 | 4° 2 | 3°32 | 5°19 | 15°15 | 14° 8 | 15°38 | 27° 0 | 9°52 |
| M 4 | 13 16 45 | 21° 1'50 | 23°25 | 27°59 | 17°30 | 4°58 | 16°34 | 3°59 | 3°34 | 5°19 | 15°13 | 14° 6 | 15°34 | 27° 6 | 9°56 |
| T 5 | 13 20 42 | 22° 0'17 | 5°Z24 | 29°32 | 18°42 | 5°30 | 16°43 | 3°56 | 3°37 | 5°20 | 15°12 | 14° 4 | 15°31 | 27°13 | 10° 0 |
| W 6 | 13 24 38 | 22°58'42 | 17°30 | 1°Y 7 | 19°54 | 6° 2 | 16°53 | 3°54 | 3°39 | 5°21 | 15°11 | 14°D 4 | 15°28 | 27°20 | 10° 4 |
| T 7 | 13 28 35 | 23°57'05 | 29°45 | 2°43 | 21° 6 | 6°33 | 17° 2 | 3°51 | 3°42 | 5°22 | 15° 9 | 14° 5 | 15°25 | 27°26 | 10° 8 |
| F 8 | 13 32 31 | 24°55'26 | 12°II12 | 4°22 | 22°18 | 7° 5 | 17°12 | 3°48 | 3°44 | 5°23 | 15° 7 | 14° 6 | 15°22 | 27°33 | 10°12 |
| S 9 | 13 36 28 | 25°53'46 | 24°53 | 6° 2 | 23°30 | 7°37 | 17°21 | 3°45 | 3°47 | 5°24 | 15° 6 | 14° 8 | 15°18 | 27°40 | 10°17 |
| S 10 | 13 40 25 | 26°52'03 | 7°E51 | 7°44 | 24°42 | 8°10 | 17°30 | 3°42 | 3°49 | 5°25 | 15° 4 | 14° 9 | 15°15 | 27°46 | 10°21 |
| M11 | 13 44 21 | 27°50'18 | 21° 9 | 9°27 | 25°54 | 8°42 | 17°39 | 3°39 | 3°51 | 5°26 | 15° 3 | 14°10 | 15°12 | 27°53 | 10°25 |
| T 12 | 13 48 18 | 28°48'30 | 4°O48 | 11°13 | 27° 6 | 9°14 | 17°48 | 3°36 | 3°54 | 5°27 | 15° 1 | 14°R10 | 15° 9 | 28° 0 | 10°29 |
| W13 | 13 52 14 | 29°46'41 | 18°50 | 13° 0 | 28°18 | 9°47 | 17°56 | 3°33 | 3°56 | 5°28 | 15° 0 | 14° 9 | 15° 6 | 28° 6 | 10°33 |
| T 14 | 13 56 11 | 0°Z44'50 | 3°M13 | 14°49 | 29°30 | 10°19 | 18° 5 | 3°29 | 3°58 | 5°30 | 14°58 | 14° 8 | 15° 3 | 28°13 | 10°37 |
| F 15 | 14 0 7 | 1°42'56 | 17°54 | 16°40 | 0°Y43 | 10°52 | 18°13 | 3°26 | 4° 0 | 5°31 | 14°56 | 14° 6 | 14°59 | 28°20 | 10°41 |
| S 16 | 14 4 4 | 2°41'01 | 2°E49 | 18°32 | 1°55 | 11°24 | 18°22 | 3°22 | 4° 3 | 5°32 | 14°55 | 14° 5 | 14°56 | 28°27 | 10°46 |
| S 17 | 14 8 0 | 3°39'04 | 17°50 | 20°27 | 3° 7 | 11°57 | 18°30 | 3°19 | 4° 5 | 5°33 | 14°53 | 14° 4 | 14°53 | 28°33 | 10°50 |
| M18 | 14 11 57 | 4°37'05 | 2°M48 | 22°23 | 4°19 | 12°30 | 18°38 | 3°15 | 4° 7 | 5°34 | 14°52 | 14° 3 | 14°50 | 28°40 | 10°54 |
| T 19 | 14 15 54 | 5°35'04 | 17°35 | 24°21 | 5°31 | 13° 3 | 18°46 | 3°12 | 4° 9 | 5°36 | 14°50 | 14°D 3 | 14°47 | 28°47 | 10°58 |
| W20 | 14 19 50 | 6°33'02 | 2°K 4 | 26°20 | 6°44 | 13°36 | 18°53 | 3° 8 | 4°11 | 5°37 | 14°48 | 14° 3 | 14°43 | 28°53 | 11° 2 |
| T 21 | 14 23 47 | 7°30'58 | 16°10 | 28°22 | 7°56 | 14° 9 | 19° 1 | 3° 4 | 4°13 | 5°38 | 14°47 | 14° 4 | 14°40 | 29° 0 | 11° 7 |
| F 22 | 14 27 43 | 8°28'53 | 29°50 | 0°Z24 | 9° 8 | 14°42 | 19° 8 | 3° 1 | 4°15 | 5°40 | 14°45 | 14° 4 | 14°37 | 29° 7 | 11°11 |
| S 23 | 14 31 40 | 9°26'47 | 13°Z 5 | 2°29 | 10°21 | 15°15 | 19°16 | 2°57 | 4°17 | 5°41 | 14°43 | 14° 5 | 14°34 | 29°13 | 11°15 |
| S 24 | 14 35 36 | 10°24'39 | 25°56 | 4°35 | 11°33 | 15°48 | 19°23 | 2°53 | 4°19 | 5°42 | 14°42 | 14° 5 | 14°31 | 29°20 | 11°19 |
| M25 | 14 39 33 | 11°22'30 | 8°Z27 | 6°42 | 12°45 | 16°21 | 19°30 | 2°49 | 4°20 | 5°44 | 14°40 | 14°R 5 | 14°28 | 29°27 | 11°24 |
| T 26 | 14 43 29 | 12°20'20 | 20°40 | 8°51 | 13°58 | 16°55 | 19°37 | 2°45 | 4°22 | 5°45 | 14°38 | 14° 5 | 14°24 | 29°33 | 11°28 |
| W27 | 14 47 26 | 13°18'09 | 2°K41 | 11° 0 | 15°10 | 17°28 | 19°43 | 2°41 | 4°24 | 5°47 | 14°37 | 14° 5 | 14°21 | 29°40 | 11°32 |
| T 28 | 14 51 23 | 14°15'56 | 14°35 | 13°10 | 16°22 | 18° 2 | 19°50 | 2°37 | 4°26 | 5°48 | 14°35 | 14°D 5 | 14°18 | 29°47 | 11°36 |
| F 29 | 14 55 19 | 15°13'42 | 26°25 | 15°21 | 17°35 | 18°35 | 19°56 | 2°33 | 4°27 | 5°50 | 14°33 | 14° 5 | 14°15 | 29°53 | 11°41 |
| S 30 | 14 59 16 | 16°11'27 | 8°Y14 | 17°Z33 | 18°Y47 | 19°E 9 | 20°3 | 2°K29 | 4°K29 | 5°E51 | 14°M32 | 14°M 6 | 14°M12 | 0°Y 0 | 11°K45 |

Delta T = 09m47s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 1250

MAY 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|------|------|--------|--------|-------|------|-------|---|
| S 1 | 15 3 12 | 17♄ 9°10 | 20♃ 8 | 19♄44 | 20♃ 0 | 19♄43 | 20♃ 9 | 2°R25 | 4♃30 | 5♄53 | 14°R30 | 14♃ 6 | 14♃ 9 | 0♃ 7 | 11♄49 | |
| M 2 | 15 7 9 | 18° 6'53 | 2♄ 8 | 21°55 | 21°12 | 20°17 | 20°15 | 2°R20 | 4°32 | 5°55 | 14♃28 | 14° 6 | 14° 5 | 0°13 | 11°53 | |
| T 3 | 15 11 5 | 19° 4'34 | 14°17 | 24° 6 | 22°25 | 20°50 | 20°20 | 2°16 | 4°33 | 5°56 | 14°27 | 14°R 6 | 14° 2 | 0°20 | 11°57 | |
| W 4 | 15 15 2 | 20° 2'14 | 26°37 | 26°16 | 23°37 | 21°24 | 20°26 | 2°12 | 4°35 | 5°58 | 14°25 | 14° 6 | 13°59 | 0°27 | 12° 2 | |
| T 5 | 15 18 58 | 20°59'52 | 9♂ 9 | 28°25 | 24°50 | 21°58 | 20°31 | 2° 8 | 4°36 | 6° 0 | 14°23 | 14° 6 | 13°56 | 0°34 | 12° 6 | |
| F 6 | 15 22 55 | 21°57'29 | 21°54 | 0♂32 | 26° 2 | 22°32 | 20°37 | 2° 3 | 4°37 | 6° 1 | 14°22 | 14° 5 | 13°53 | 0°40 | 12°10 | |
| S 7 | 15 26 52 | 22°55'05 | 4♄52 | 2°38 | 27°15 | 23° 7 | 20°42 | 1°59 | 4°39 | 6° 3 | 14°20 | 14° 4 | 13°49 | 0°47 | 12°14 | |
| S 8 | 15 30 48 | 23°52'40 | 18° 6 | 4°43 | 28°27 | 23°41 | 20°47 | 1°55 | 4°40 | 6° 5 | 14°18 | 14° 3 | 13°46 | 0°54 | 12°18 | |
| M 9 | 15 34 45 | 24°50'13 | 1♂34 | 6°45 | 29°40 | 24°15 | 20°52 | 1°50 | 4°41 | 6° 6 | 14°17 | 14° 1 | 13°43 | 1° 0 | 12°23 | |
| T 10 | 15 38 41 | 25°47'44 | 15°17 | 8°46 | 0♄52 | 24°49 | 20°56 | 1°46 | 4°42 | 6° 8 | 14°15 | 14° 1 | 13°40 | 1° 7 | 12°27 | |
| W11 | 15 42 38 | 26°45'14 | 29°14 | 10°44 | 2° 5 | 25°24 | 21° 1 | 1°41 | 4°43 | 6°10 | 14°13 | 14°D 1 | 13°37 | 1°14 | 12°31 | |
| T 12 | 15 46 34 | 27°42'43 | 13♂25 | 12°39 | 3°17 | 25°58 | 21° 5 | 1°37 | 4°45 | 6°12 | 14°12 | 14° 1 | 13°34 | 1°20 | 12°35 | |
| F 13 | 15 50 31 | 28°40'10 | 27°48 | 14°33 | 4°30 | 26°33 | 21° 9 | 1°33 | 4°46 | 6°14 | 14°10 | 14° 2 | 13°30 | 1°27 | 12°39 | |
| S 14 | 15 54 27 | 29°37'36 | 12♂20 | 16°24 | 5°43 | 27° 7 | 21°13 | 1°28 | 4°46 | 6°16 | 14° 9 | 14° 3 | 13°27 | 1°34 | 12°43 | |
| S 15 | 15 58 24 | 0♂35'01 | 26°55 | 18°12 | 6°55 | 27°42 | 21°17 | 1°24 | 4°47 | 6°17 | 14° 7 | 14° 4 | 13°24 | 1°40 | 12°47 | |
| M16 | 16 2 21 | 1°32'25 | 11♂30 | 19°57 | 8° 8 | 28°16 | 21°20 | 1°19 | 4°48 | 6°19 | 14° 6 | 14°R 4 | 13°21 | 1°47 | 12°52 | |
| T 17 | 16 6 17 | 2°29'47 | 25°59 | 21°40 | 9°21 | 28°51 | 21°24 | 1°15 | 4°49 | 6°21 | 14° 4 | 14° 4 | 13°18 | 1°54 | 12°56 | |
| W18 | 16 10 14 | 3°27'09 | 10♂14 | 23°20 | 10°33 | 29°26 | 21°27 | 1°10 | 4°50 | 6°23 | 14° 2 | 14° 3 | 13°15 | 2° 0 | 13° 0 | |
| T 19 | 16 14 10 | 4°24'30 | 24°13 | 24°57 | 11°46 | 0♄ 1 | 21°30 | 1° 6 | 4°51 | 6°25 | 14° 1 | 14° 1 | 13°11 | 2° 7 | 13° 4 | |
| F 20 | 16 18 7 | 5°21'50 | 7♄51 | 26°32 | 12°59 | 0°35 | 21°33 | 1° 2 | 4°51 | 6°27 | 13°59 | 13°58 | 13° 8 | 2°14 | 13° 8 | |
| S 21 | 16 22 3 | 6°19'09 | 21° 7 | 28° 4 | 14°11 | 1°10 | 21°35 | 0°57 | 4°52 | 6°29 | 13°58 | 13°55 | 13° 5 | 2°20 | 13°12 | |
| S 22 | 16 26 0 | 7°16'28 | 4♃ 0 | 29°33 | 15°24 | 1°45 | 21°38 | 0°53 | 4°52 | 6°31 | 13°56 | 13°52 | 13° 2 | 2°27 | 13°16 | |
| M23 | 16 29 56 | 8°13'46 | 16°33 | 0♄59 | 16°37 | 2°20 | 21°40 | 0°48 | 4°53 | 6°33 | 13°55 | 13°49 | 12°59 | 2°34 | 13°20 | |
| T 24 | 16 33 53 | 9°11'04 | 28°49 | 2°22 | 17°50 | 2°55 | 21°42 | 0°44 | 4°53 | 6°35 | 13°53 | 13°48 | 12°55 | 2°40 | 13°24 | |
| W25 | 16 37 50 | 10° 8'21 | 10♂51 | 3°42 | 19° 3 | 3°30 | 21°44 | 0°40 | 4°54 | 6°37 | 13°52 | 13°D47 | 12°52 | 2°47 | 13°27 | |
| T 26 | 16 41 46 | 11° 5'38 | 22°45 | 4°59 | 20°15 | 4° 6 | 21°46 | 0°35 | 4°54 | 6°39 | 13°50 | 13°48 | 12°49 | 2°54 | 13°31 | |
| F 27 | 16 45 43 | 12° 2'54 | 4♃35 | 6°14 | 21°28 | 4°41 | 21°47 | 0°31 | 4°55 | 6°41 | 13°49 | 13°49 | 12°46 | 3° 0 | 13°35 | |
| S 28 | 16 49 39 | 13° 0'10 | 16°27 | 7°25 | 22°41 | 5°16 | 21°49 | 0°27 | 4°55 | 6°43 | 13°48 | 13°51 | 12°43 | 3° 7 | 13°39 | |
| S 29 | 16 53 36 | 13°57'26 | 28°24 | 8°33 | 23°54 | 5°51 | 21°50 | 0°23 | 4°55 | 6°45 | 13°46 | 13°52 | 12°40 | 3°14 | 13°43 | |
| M30 | 16 57 32 | 14°54'41 | 10♂30 | 9°38 | 25° 7 | 6°27 | 21°51 | 0°18 | 4°55 | 6°47 | 13°45 | 13°R53 | 12°36 | 3°20 | 13°47 | |
| T 31 | 17 1 29 | 15°51'56 | 22♄49 | 10♄40 | 26♄20 | 7♄ 2 | 21°55 | 0°14 | 4°55 | 6°49 | 13♂44 | 13♂53 | 12♂33 | 3°27 | 13♄50 | |

Delta T = 09m47s Julian Calendar 1 May 1250 == Greg. Calendar 8 May 1250

JUNE 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|--------|-------|-------|--------|-------|-------|------|--------|--------|-------|-------|-------|---|
| W 1 | 17 5 25 | 16♂49'11 | 5♂23 | 11♄38 | 27♄33 | 7♄38 | 21°55 | 0°R10 | 4♃56 | 6♄52 | 13°R42 | 13°R51 | 12♂30 | 3°Y34 | 13♄54 | |
| T 2 | 17 9 22 | 17°46'25 | 18°14 | 12°33 | 28°46 | 8°13 | 21°52 | 0°R 6 | 4°R56 | 6°54 | 13♂41 | 13♂48 | 12°27 | 3°41 | 13°58 | |
| F 3 | 17 13 19 | 18°43'39 | 1♄21 | 13°25 | 29°59 | 8°49 | 21°R52 | 0° 2 | 4°56 | 6°56 | 13°40 | 13°43 | 12°24 | 3°47 | 14° 2 | |
| S 4 | 17 17 15 | 19°40'53 | 14°43 | 14°12 | 1♂12 | 9°24 | 21°52 | 29♂58 | 4°55 | 6°58 | 13°38 | 13°38 | 12°21 | 3°54 | 14° 5 | |
| S 5 | 17 21 12 | 20°38'06 | 28°20 | 14°56 | 2°25 | 10° 0 | 21°52 | 29°54 | 4°55 | 7° 0 | 13°37 | 13°32 | 12°17 | 4° 1 | 14° 9 | |
| M 6 | 17 25 8 | 21°35'18 | 12♂ 8 | 15°37 | 3°38 | 10°36 | 21°52 | 29°50 | 4°55 | 7° 2 | 13°36 | 13°27 | 12°14 | 4° 7 | 14°13 | |
| T 7 | 17 29 5 | 22°32'30 | 26° 5 | 16°13 | 4°51 | 11°11 | 21°51 | 29°46 | 4°55 | 7° 4 | 13°35 | 13°23 | 12°11 | 4°14 | 14°16 | |
| W 8 | 17 33 1 | 23°29'41 | 10♂ 9 | 16°45 | 6° 4 | 11°47 | 21°50 | 29°42 | 4°55 | 7° 7 | 13°33 | 13°20 | 12° 8 | 4°21 | 14°20 | |
| T 9 | 17 36 58 | 24°26'52 | 24°18 | 17°13 | 7°17 | 12°23 | 21°49 | 29°38 | 4°54 | 7° 9 | 13°32 | 13°D20 | 12° 5 | 4°27 | 14°23 | |
| F 10 | 17 40 54 | 25°24'02 | 8♂29 | 17°37 | 8°30 | 12°59 | 21°48 | 29°34 | 4°54 | 7°11 | 13°31 | 13°20 | 12° 1 | 4°34 | 14°27 | |
| S 11 | 17 44 51 | 26°21'12 | 22°42 | 17°56 | 9°43 | 13°35 | 21°47 | 29°31 | 4°54 | 7°13 | 13°30 | 13°21 | 11°58 | 4°41 | 14°30 | |
| S 12 | 17 48 48 | 27°18'21 | 6♂54 | 18°11 | 10°56 | 14°11 | 21°45 | 29°27 | 4°53 | 7°15 | 13°29 | 13°R22 | 11°55 | 4°47 | 14°33 | |
| M13 | 17 52 44 | 28°15'30 | 21° 3 | 18°21 | 12° 9 | 14°47 | 21°44 | 29°23 | 4°53 | 7°18 | 13°28 | 13°22 | 11°52 | 4°54 | 14°37 | |
| T 14 | 17 56 41 | 29°12'39 | 5♂ 6 | 18°26 | 13°22 | 15°23 | 21°42 | 29°20 | 4°52 | 7°20 | 13°27 | 13°20 | 11°49 | 5° 1 | 14°40 | |
| W15 | 18 0 37 | 0♄ 9'48 | 18°59 | 18°R27 | 14°35 | 15°59 | 21°40 | 29°16 | 4°52 | 7°22 | 13°26 | 13°16 | 11°46 | 5° 7 | 14°43 | |
| T 16 | 18 4 34 | 1° 6'57 | 2♄39 | 18°24 | 15°49 | 16°35 | 21°37 | 29°13 | 4°51 | 7°24 | 13°25 | 13°10 | 11°42 | 5°14 | 14°47 | |
| F 17 | 18 8 30 | 2° 4'05 | 16° 4 | 18°15 | 17° 2 | 17°11 | 21°35 | 29°10 | 4°50 | 7°26 | 13°24 | 13° 3 | 11°39 | 5°21 | 14°50 | |
| S 18 | 18 12 27 | 3° 1'14 | 29°11 | 18° 2 | 18°15 | 17°48 | 21°32 | 29° 6 | 4°50 | 7°29 | 13°23 | 12°54 | 11°36 | 5°27 | 14°53 | |
| S 19 | 18 16 23 | 3°58'23 | 12♂ 0 | 17°45 | 19°28 | 18°24 | 21°29 | 29° 3 | 4°49 | 7°31 | 13°22 | 12°46 | 11°33 | 5°34 | 14°56 | |
| M20 | 18 20 20 | 4°55'33 | 24°31 | 17°23 | 20°42 | 19° 0 | 21°26 | 29° 0 | 4°48 | 7°33 | 13°21 | 12°39 | 11°30 | 5°41 | 14°59 | |
| T 21 | 18 24 17 | 5°52'42 | 6♂46 | 16°58 | 21°55 | 19°37 | 21°23 | 28°57 | 4°47 | 7°35 | 13°20 | 12°33 | 11°27 | 5°47 | 15° 2 | |
| W22 | 18 28 13 | 6°49'52 | 18°48 | 16°29 | 23° 8 | 20°13 | 21°20 | 28°54 | 4°46 | 7°38 | 13°20 | 12°29 | 11°23 | 5°54 | 15° 5 | |
| T 23 | 18 32 10 | 7°47'03 | 0♃41 | 15°57 | 24°22 | 20°50 | 21°16 | 28°51 | 4°45 | 7°40 | 13°19 | 12°27 | 11°20 | 6° 1 | 15° 8 | |
| F 24 | 18 36 6 | 8°44'14 | 12°31 | 15°22 | 25°35 | 21°26 | 21°12 | 28°48 | 4°44 | 7°42 | 13°18 | 12°D27 | 11°17 | 6° 7 | 15°11 | |
| S 25 | 18 40 3 | 9°41'25 | 24°23 | 14°45 | 26°48 | 22° 3 | 21° 8 | 28°45 | 4°43 | 7°44 | 13°17 | 12°28 | 11°14 | 6°14 | 15°14 | |
| S 26 | 18 43 59 | 10°38'38 | 6♄21 | 14° 6 | 28° 2 | 22°39 | 21° 4 | 28°42 | 4°42 | 7°47 | 13°17 | 12°R28 | 11°11 | 6°21 | 15°17 | |
| M27 | 18 47 56 | 11°35'50 | 18°32 | 13°27 | 29°15 | 23°16 | 21° 0 | 28°40 | 4°41 | 7°49 | 13°16 | 12°28 | 11° 7 | 6°27 | 15°20 | |
| T 28 | 18 51 52 | 12°33'04 | 0♂58 | 12°47 | 0♄29 | 23°53 | 20°55 | 28°37 | 4°40 | 7°51 | 13°15 | 12°27 | 11° 4 | 6°34 | 15°23 | |
| W29 | 18 55 49 | 13°30'18 | 13°43 | 12° 7 | 1°42 | 24°29 | 20°51 | 28°35 | 4°39 | 7°53 | 13°15 | 12°23 | 11° 1 | 6°41 | 15°25 | |
| T 30 | 18 59 46 | 14°27'33 | 26♂50 | 11♄29 | 2♄56 | 25♂ 6 | 20°46 | 28♂32 | 4♃38 | 7°55 | 13♂14 | 12♂17 | 10♂58 | 6°Y47 | 15♄28 | |

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SWISS EPHEMERIS for the year 1250

JULY 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
|------|----------|----------|-------|--------|-------|-------|--------|--------|-------|------|--------|--------|-------|-------|-------|---|---|
| F 1 | 19 3 42 | 15☉24'48 | 10☽18 | 10°R52 | 4☿ 9 | 25♁43 | 20°R41 | 28°R30 | 4°R36 | 7☿58 | 13°R14 | 12°R 8 | 10♁55 | 6♃54 | 15♄31 | | |
| S 2 | 19 7 39 | 16°22'04 | 24° 5 | 10☽18 | 5°23 | 26°20 | 20♁36 | 28♁28 | 4♃35 | 8° 0 | 13♁13 | 11♁58 | 10°52 | 7° 1 | 15°33 | | |
| S 3 | 19 11 35 | 17°19'21 | 8♁ 8 | 9°47 | 6°37 | 26°57 | 20°31 | 28°25 | 4°34 | 8° 2 | 13°13 | 11°48 | 10°48 | 7° 7 | 15°36 | | |
| M 4 | 19 15 32 | 18°16'37 | 22°22 | 9°20 | 7°50 | 27°34 | 20°25 | 28°23 | 4°32 | 8° 4 | 13°12 | 11°39 | 10°45 | 7°14 | 15°38 | | |
| T 5 | 19 19 28 | 19°13'55 | 6♁42 | 8°57 | 9° 4 | 28°11 | 20°20 | 28°21 | 4°31 | 8° 6 | 13°12 | 11°31 | 10°42 | 7°21 | 15°41 | | |
| W 6 | 19 23 25 | 20°11'12 | 21° 2 | 8°38 | 10°17 | 28°48 | 20°14 | 28°19 | 4°29 | 8° 9 | 13°11 | 11°26 | 10°39 | 7°27 | 15°43 | | |
| T 7 | 19 27 21 | 21° 8'30 | 5♁19 | 8°24 | 11°31 | 29°25 | 20° 8 | 28°18 | 4°28 | 8°11 | 13°11 | 11°23 | 10°36 | 7°34 | 15°45 | | |
| F 8 | 19 31 18 | 22° 5'49 | 19°30 | 8°16 | 12°45 | 0♁ 2 | 20° 2 | 28°16 | 4°26 | 8°13 | 13°11 | 11°D22 | 10°33 | 7°41 | 15°48 | | |
| S 9 | 19 35 15 | 23° 3'08 | 3♁34 | 8°D14 | 13°59 | 0°39 | 19°56 | 28°14 | 4°25 | 8°15 | 13°10 | 11°22 | 10°29 | 7°47 | 15°50 | | |
| S 10 | 19 39 11 | 24° 0'27 | 17°29 | 8°17 | 15°12 | 1°17 | 19°50 | 28°13 | 4°23 | 8°17 | 13°10 | 11°R22 | 10°26 | 7°54 | 15°52 | | |
| M11 | 19 43 8 | 24°57'47 | 1♁17 | 8°27 | 16°26 | 1°54 | 19°44 | 28°11 | 4°21 | 8°20 | 13°10 | 11°21 | 10°23 | 8° 1 | 15°54 | | |
| T 12 | 19 47 4 | 25°55'07 | 14°55 | 8°43 | 17°40 | 2°31 | 19°37 | 28°10 | 4°20 | 8°22 | 13°10 | 11°17 | 10°20 | 8° 7 | 15°56 | | |
| W13 | 19 51 1 | 26°52'29 | 28°24 | 9° 5 | 18°54 | 3° 9 | 19°30 | 28° 8 | 4°18 | 8°24 | 13°10 | 11°11 | 10°17 | 8°14 | 15°58 | | |
| T 14 | 19 54 57 | 27°49'51 | 11♁42 | 9°33 | 20° 7 | 3°46 | 19°24 | 28° 7 | 4°16 | 8°26 | 13° 9 | 11° 2 | 10°13 | 8°21 | 16° 0 | | |
| F 15 | 19 58 54 | 28°47'14 | 24°47 | 10° 8 | 21°21 | 4°24 | 19°17 | 28° 6 | 4°15 | 8°28 | 13° 9 | 10°50 | 10°10 | 8°27 | 16° 2 | | |
| S 16 | 20 2 51 | 29°44'37 | 7♁39 | 10°49 | 22°35 | 5° 1 | 19°10 | 28° 5 | 4°13 | 8°30 | 13° 9 | 10°38 | 10° 7 | 8°34 | 16° 4 | | |
| S 17 | 20 6 47 | 0♁42'02 | 20°16 | 11°36 | 23°49 | 5°39 | 19° 3 | 28° 4 | 4°11 | 8°32 | 13°D 9 | 10°25 | 10° 4 | 8°41 | 16° 6 | | |
| M18 | 20 10 44 | 1°39'28 | 2♁39 | 12°29 | 25° 3 | 6°16 | 18°56 | 28° 3 | 4° 9 | 8°34 | 13° 9 | 10°14 | 10° 1 | 8°47 | 16° 7 | | |
| T 19 | 20 14 40 | 2°36'55 | 14°49 | 13°28 | 26°17 | 6°54 | 18°49 | 28° 3 | 4° 7 | 8°37 | 13° 9 | 10° 4 | 9°58 | 8°54 | 16° 9 | | |
| W20 | 20 18 37 | 3°34'23 | 26°48 | 14°33 | 27°31 | 7°32 | 18°41 | 28° 2 | 4° 5 | 8°39 | 13° 9 | 9°57 | 9°54 | 9° 1 | 16°11 | | |
| T 21 | 20 22 33 | 4°31'52 | 8♁40 | 15°44 | 28°45 | 8° 9 | 18°34 | 28° 2 | 4° 3 | 8°41 | 13°10 | 9°53 | 9°51 | 9° 7 | 16°12 | | |
| F 22 | 20 26 30 | 5°29'23 | 20°28 | 17° 0 | 29°59 | 8°47 | 18°27 | 28° 1 | 4° 1 | 8°43 | 13°10 | 9°51 | 9°48 | 9°14 | 16°14 | | |
| S 23 | 20 30 26 | 6°26'55 | 2♁19 | 18°22 | 1♁13 | 9°25 | 18°19 | 28° 1 | 3°59 | 8°45 | 13°10 | 9°50 | 9°45 | 9°21 | 16°15 | | |
| S 24 | 20 34 23 | 7°24'29 | 14°16 | 19°49 | 2°27 | 10° 3 | 18°12 | 28° 0 | 3°57 | 8°47 | 13°10 | 9°50 | 9°42 | 9°27 | 16°17 | | |
| M25 | 20 38 19 | 8°22'04 | 26°27 | 21°20 | 3°41 | 10°41 | 18° 4 | 28° 0 | 3°55 | 8°49 | 13°10 | 9°49 | 9°38 | 9°34 | 16°18 | | |
| T 26 | 20 42 16 | 9°19'41 | 8♁55 | 22°56 | 4°55 | 11°19 | 17°56 | 28°D 0 | 3°53 | 8°51 | 13°11 | 9°47 | 9°35 | 9°41 | 16°19 | | |
| W27 | 20 46 13 | 10°17'20 | 21°45 | 24°36 | 6° 9 | 11°57 | 17°49 | 28° 0 | 3°51 | 8°53 | 13°11 | 9°43 | 9°32 | 9°47 | 16°20 | | |
| T 28 | 20 50 9 | 11°14'59 | 5♁ 0 | 26°20 | 7°23 | 12°35 | 17°41 | 28° 0 | 3°49 | 8°55 | 13°11 | 9°36 | 9°29 | 9°54 | 16°22 | | |
| F 29 | 20 54 6 | 12°12'41 | 18°42 | 28° 7 | 8°38 | 13°13 | 17°33 | 28° 1 | 3°47 | 8°57 | 13°12 | 9°26 | 9°26 | 10° 1 | 16°23 | | |
| S 30 | 20 58 2 | 13°10'24 | 2♁48 | 29°57 | 9°52 | 13°51 | 17°25 | 28° 1 | 3°44 | 8°58 | 13°12 | 9°15 | 9°23 | 10° 7 | 16°24 | | |
| S 31 | 21 1 59 | 14♁ 8'08 | 17♁13 | 1♁50 | 11♁ 6 | 14♁29 | 17♁17 | 28♁ 1 | 3♁42 | 9♁ 0 | 13♁12 | 9♁ 4 | 9♁19 | 10♁14 | 16♁25 | | |

Delta T = 09m46s

Julian Calendar 1 July 1250 == Greg. Calendar 8 July 1250

AUGUST 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|------|-------|-------|------|-------|--------|---|---|
| M 1 | 21 5 55 | 15♁ 5'53 | 1♁52 | 3♁45 | 12♁20 | 15♁ 7 | 17°R10 | 28♁ 2 | 3°R40 | 9♁ 2 | 13♁13 | 8°R53 | 9♁16 | 10♁21 | 16♁26 | | |
| T 2 | 21 9 52 | 16° 3'40 | 16°37 | 5°42 | 13°35 | 15°46 | 17♁ 2 | 28° 3 | 3♁38 | 9° 4 | 13°13 | 8♁44 | 9°13 | 10°27 | 16°27 | | |
| W 3 | 21 13 48 | 17° 1'28 | 1♁20 | 7°39 | 14°49 | 16°24 | 16°54 | 28° 3 | 3°35 | 9° 6 | 13°14 | 8°37 | 9°10 | 10°34 | 16°27 | | |
| T 4 | 21 17 45 | 17°59'17 | 15°54 | 9°38 | 16° 3 | 17° 2 | 16°46 | 28° 4 | 3°33 | 9° 8 | 13°15 | 8°34 | 9° 7 | 10°41 | 16°28 | | |
| F 5 | 21 21 42 | 18°57'08 | 0♁15 | 11°38 | 17°17 | 17°41 | 16°38 | 28° 5 | 3°31 | 9°10 | 13°15 | 8°33 | 9° 4 | 10°47 | 16°29 | | |
| S 6 | 21 25 38 | 19°54'59 | 14°21 | 13°38 | 18°32 | 18°19 | 16°30 | 28° 6 | 3°29 | 9°11 | 13°16 | 8°32 | 9° 0 | 10°54 | 16°29 | | |
| S 7 | 21 29 35 | 20°52'53 | 28°12 | 15°37 | 19°46 | 18°58 | 16°22 | 28° 7 | 3°26 | 9°13 | 13°17 | 8°32 | 8°57 | 11° 1 | 16°30 | | |
| M 8 | 21 33 31 | 21°50'47 | 11♁48 | 17°37 | 21° 0 | 19°36 | 16°14 | 28° 8 | 3°24 | 9°15 | 13°17 | 8°31 | 8°54 | 11° 7 | 16°30 | | |
| T 9 | 21 37 28 | 22°48'42 | 25°10 | 19°37 | 22°15 | 20°15 | 16° 7 | 28°10 | 3°22 | 9°17 | 13°18 | 8°27 | 8°51 | 11°14 | 16°31 | | |
| W10 | 21 41 24 | 23°46'39 | 8♁18 | 21°35 | 23°29 | 20°54 | 15°59 | 28°11 | 3°19 | 9°18 | 13°19 | 8°21 | 8°48 | 11°21 | 16°31 | | |
| T 11 | 21 45 21 | 24°44'38 | 21°15 | 23°33 | 24°44 | 21°32 | 15°51 | 28°13 | 3°17 | 9°20 | 13°20 | 8°12 | 8°44 | 11°27 | 16°31 | | |
| F 12 | 21 49 17 | 25°42'38 | 4♁ 1 | 25°30 | 25°58 | 22°11 | 15°44 | 28°14 | 3°15 | 9°22 | 13°21 | 8° 1 | 8°41 | 11°34 | 16°32 | | |
| S 13 | 21 53 14 | 26°40'39 | 16°34 | 27°27 | 27°12 | 22°50 | 15°36 | 28°16 | 3°12 | 9°23 | 13°21 | 7°49 | 8°38 | 11°41 | 16°32 | | |
| S 14 | 21 57 11 | 27°38'42 | 28°57 | 29°22 | 28°27 | 23°29 | 15°28 | 28°18 | 3°10 | 9°25 | 13°22 | 7°37 | 8°35 | 11°47 | 16°32 | | |
| M15 | 22 1 7 | 28°36'47 | 11♁ 9 | 1♁16 | 29°41 | 24° 8 | 15°21 | 28°19 | 3° 7 | 9°27 | 13°23 | 7°25 | 8°32 | 11°54 | 16°R32 | | |
| T 16 | 22 5 4 | 29°34'53 | 23°11 | 3° 9 | 0♁56 | 24°46 | 15°14 | 28°21 | 3° 5 | 9°28 | 13°24 | 7°16 | 8°29 | 12° 1 | 16°32 | | |
| W17 | 22 9 0 | 0♁33'01 | 5♁ 5 | 5° 1 | 2°10 | 25°25 | 15° 6 | 28°23 | 3° 3 | 9°30 | 13°25 | 7° 9 | 8°25 | 12° 7 | 16°32 | | |
| T 18 | 22 12 57 | 1°31'12 | 16°54 | 6°52 | 3°25 | 26° 4 | 14°59 | 28°26 | 3° 0 | 9°31 | 13°26 | 7° 4 | 8°22 | 12°14 | 16°32 | | |
| F 19 | 22 16 53 | 2°29'24 | 28°41 | 8°42 | 4°39 | 26°44 | 14°52 | 28°28 | 2°58 | 9°33 | 13°27 | 7° 2 | 8°19 | 12°21 | 16°31 | | |
| S 20 | 22 20 50 | 3°27'38 | 10♁30 | 10°30 | 5°54 | 27°23 | 14°45 | 28°30 | 2°55 | 9°34 | 13°28 | 7°D 2 | 8°16 | 12°27 | 16°31 | | |
| S 21 | 22 24 46 | 4°25'54 | 22°27 | 12°17 | 7° 9 | 28° 2 | 14°38 | 28°33 | 2°53 | 9°36 | 13°30 | 7° 3 | 8°13 | 12°34 | 16°31 | | |
| M22 | 22 28 43 | 5°24'13 | 4♁35 | 14° 4 | 8°23 | 28°41 | 14°31 | 28°35 | 2°51 | 9°37 | 13°31 | 7°R 3 | 8°10 | 12°41 | 16°30 | | |
| T 23 | 22 32 40 | 6°22'33 | 17° 1 | 15°49 | 9°38 | 29°20 | 14°24 | 28°38 | 2°48 | 9°39 | 13°32 | 7° 2 | 8° 6 | 12°47 | 16°30 | | |
| W24 | 22 36 36 | 7°20'56 | 29°50 | 17°32 | 10°52 | 0♁ 0 | 14°17 | 28°40 | 2°46 | 9°40 | 13°33 | 7° 0 | 8° 3 | 12°54 | 16°29 | | |
| T 25 | 22 40 33 | 8°19'21 | 13♁ 5 | 19°15 | 12° 7 | 0°39 | 14°11 | 28°43 | 2°43 | 9°41 | 13°34 | 6°55 | 8° 0 | 13° 1 | 16°29 | | |
| F 26 | 22 44 29 | 9°17'48 | 26°49 | 20°57 | 13°22 | 1°18 | 14° 4 | 28°46 | 2°41 | 9°43 | 13°36 | 6°49 | 7°57 | 13° 7 | 16°28 | | |
| S 27 | 22 48 26 | 10°16'17 | 11♁ 0 | 22°37 | 14°36 | 1°58 | 13°58 | 28°49 | 2°39 | 9°44 | 13°37 | 6°41 | 7°54 | 13°14 | 16°27 | | |
| S 28 | 22 52 22 | 11°14'48 | 25°37 | 24°17 | 15°51 | 2°37 | 13°52 | 28°52 | 2°36 | 9°45 | 13°38 | 6°32 | 7°50 | 13°21 | 16°27 | | |
| M29 | 22 56 19 | 12°13'21 | 10♁32 | 25°55 | 17° 6 | 3°17 | 13°46 | 28°55 | 2°34 | 9°47 | 13°40 | 6°24 | 7°47 | 13°27 | 16°26 | | |
| T 30 | 23 0 15 | 13°11'56 | 25°36 | 27°33 | 18°20 | 3°57 | 13°40 | 28°58 | 2°32 | 9°48 | | | | | | | |

SWISS EPHEMERIS for the year 1250

SEPTEMBER 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|-----------------------|-----------------------|--------------------|---------------------|--------------------|---------------------|--------------------|--------------------|---------------------|---------------------|-------------------|-------------------|---------------------|---------------------|
| T 1 | 23 8 9 | 15 ^h 9'12" | 25 ^h 5'35" | 0 ^h 44' | 20 ^h 50' | 5 ^h 16' | 13°R28 | 29 ^m 5 | 2°R27 | 9 ^h 50' | 13 ^m 44 | 6°R10 | 7 ^m 38 | 13 ^h 47' | 16°R23 |
| F 2 | 23 12 5 | 16° 7'52" | 10 ^h 13' | 2°18' | 22° 5' | 5°56' | 13 ^h 23' | 29° 8' | 2 ^h 25' | 9°51' | 13°46' | 6°D 9' | 7°35' | 13°54' | 16 ^h 22' |
| S 3 | 23 16 2 | 17° 6'35" | 24°32' | 3°52' | 23°19' | 6°36' | 13°18' | 29°12' | 2°22' | 9°52' | 13°47' | 6 ^m 10 | 7°31' | 14° 0' | 16°21' |
| S 4 | 23 19 58 | 18° 5'19" | 8 ^h 29' | 5°24' | 24°34' | 7°16' | 13°12' | 29°16' | 2°20' | 9°53' | 13°49' | 6°11' | 7°28' | 14° 7' | 16°19' |
| M 5 | 23 23 55 | 19° 4'04" | 22° 4' | 6°55' | 25°49' | 7°55' | 13° 7' | 29°19' | 2°18' | 9°54' | 13°50' | 6°R11' | 7°25' | 14°14' | 16°18' |
| T 6 | 23 27 51 | 20° 2'52" | 5 ^h 20' | 8°26' | 27° 3' | 8°35' | 13° 3' | 29°23' | 2°15' | 9°55' | 13°52' | 6°10' | 7°22' | 14°20' | 16°17' |
| W 7 | 23 31 48 | 21° 1'41" | 18°17' | 9°55' | 28°18' | 9°15' | 12°58' | 29°27' | 2°13' | 9°56' | 13°53' | 6° 7' | 7°19' | 14°27' | 16°15' |
| T 8 | 23 35 44 | 22° 0'32" | 1 ^h 00' | 11°23' | 29°33' | 9°56' | 12°53' | 29°31' | 2°11' | 9°57' | 13°55' | 6° 2' | 7°15' | 14°34' | 16°14' |
| F 9 | 23 39 41 | 22°59'25" | 13°29' | 12°51' | 0 ^h 48' | 10°36' | 12°49' | 29°35' | 2° 9' | 9°58' | 13°57' | 5°55' | 7°12' | 14°40' | 16°12' |
| S 10 | 23 43 38 | 23°58'20" | 25°48' | 14°17' | 2° 2' | 11°16' | 12°45' | 29°39' | 2° 7' | 9°59' | 13°59' | 5°48' | 7° 9' | 14°47' | 16°11' |
| S 11 | 23 47 34 | 24°57'16" | 7 ^h 56' | 15°43' | 3°17' | 11°56' | 12°41' | 29°43' | 2° 5' | 10° 0' | 14° 0' | 5°40' | 7° 6' | 14°54' | 16° 9' |
| M12 | 23 51 31 | 25°56'15" | 19°58' | 17° 7' | 4°32' | 12°36' | 12°37' | 29°47' | 2° 2' | 10° 1' | 14° 2' | 5°33' | 7° 3' | 15° 0' | 16° 8' |
| T 13 | 23 55 27 | 26°55'15" | 1 ^h 52' | 18°30' | 5°47' | 13°17' | 12°33' | 29°52' | 2° 0' | 10° 2' | 14° 4' | 5°27' | 7° 0' | 15° 7' | 16° 6' |
| W14 | 23 59 24 | 27°54'18" | 13°42' | 19°52' | 7° 2' | 13°57' | 12°30' | 29°56' | 1°58' | 10° 2' | 14° 6' | 5°23' | 6°56' | 15°14' | 16° 4' |
| T 15 | 0 3 20 | 28°53'23" | 25°30' | 21°13' | 8°16' | 14°37' | 12°27' | 0 ^h 1' | 1°56' | 10° 3' | 14° 7' | 5°21' | 6°53' | 15°20' | 16° 2' |
| F 16 | 0 7 17 | 29°52'30" | 7 ^h 17' | 22°33' | 9°31' | 15°18' | 12°24' | 0° 5' | 1°54' | 10° 4' | 14° 9' | 5°D20' | 6°50' | 15°27' | 16° 0' |
| S 17 | 0 11 13 | 0 ^h 51'39" | 19° 8' | 23°52' | 10°46' | 15°58' | 12°21' | 0°10' | 1°52' | 10° 4' | 14°11' | 5°21' | 6°47' | 15°34' | 15°58' |
| S 18 | 0 15 10 | 1°50'50" | 1 ^h 11' | 25° 9' | 12° 1' | 16°39' | 12°18' | 0°15' | 1°50' | 10° 5' | 14°13' | 5°22' | 6°44' | 15°40' | 15°56' |
| M19 | 0 19 6 | 2°50'04" | 13°14' | 26°25' | 13°16' | 17°20' | 12°16' | 0°19' | 1°48' | 10° 6' | 14°15' | 5°24' | 6°41' | 15°47' | 15°54' |
| T 20 | 0 23 3 | 3°49'21" | 25°39' | 27°39' | 14°30' | 18° 0' | 12°13' | 0°24' | 1°46' | 10° 6' | 14°17' | 5°25' | 6°37' | 15°54' | 15°52' |
| W21 | 0 27 0 | 4°48'39" | 8 ^h 24' | 28°52' | 15°45' | 18°41' | 12°11' | 0°29' | 1°44' | 10° 7' | 14°19' | 5°R26' | 6°34' | 16° 0' | 15°50' |
| T 22 | 0 30 56 | 5°48'00" | 21°23' | 0 ^h 13' | 17° 0' | 19°22' | 12° 9' | 0°34' | 1°42' | 10° 7' | 14°21' | 5°25' | 6°31' | 16° 7' | 15°48' |
| F 23 | 0 34 53 | 6°47'24" | 5 ^h 9' | 1°13' | 18°15' | 20° 3' | 12° 7' | 0°39' | 1°41' | 10° 8' | 14°23' | 5°22' | 6°28' | 16°14' | 15°46' |
| S 24 | 0 38 49 | 7°46'49" | 19°15' | 2°21' | 19°30' | 20°43' | 12° 6' | 0°44' | 1°39' | 10° 8' | 14°25' | 5°19' | 6°25' | 16°20' | 15°43' |
| S 25 | 0 42 46 | 8°46'17" | 3 ^h 46' | 3°26' | 20°45' | 21°24' | 12° 5' | 0°49' | 1°37' | 10° 9' | 14°27' | 5°15' | 6°21' | 16°27' | 15°41' |
| M26 | 0 46 42 | 9°45'47" | 18°41' | 4°29' | 21°59' | 22° 5' | 12° 4' | 0°54' | 1°35' | 10° 9' | 14°29' | 5°12' | 6°18' | 16°34' | 15°39' |
| T 27 | 0 50 39 | 10°45'20" | 3 ^h 50' | 5°30' | 23°14' | 22°46' | 12° 3' | 1° 0' | 1°34' | 10° 9' | 14°31' | 5° 9' | 6°15' | 16°40' | 15°36' |
| W28 | 0 54 35 | 11°44'54" | 19° 4' | 6°28' | 24°29' | 23°27' | 12° 2' | 1° 5' | 1°32' | 10°10' | 14°33' | 5° 7' | 6°12' | 16°47' | 15°34' |
| T 29 | 0 58 32 | 12°44'30" | 4 ^h 13' | 7°23' | 25°44' | 24° 9' | 12° 1' | 1°10' | 1°30' | 10°10' | 14°35' | 5°D 6' | 6° 9' | 16°53' | 15°31' |
| F 30 | 1 2 29 | 13°44'09" | 19 ^h 8' | 8 ^m 15' | 26°59' | 24°50' | 12 ^h 1' | 1 ^m 16' | 1 ^h 29' | 10 ^h 10' | 14 ^m 37' | 5 ^m 6' | 6 ^m 6' | 17 ^h 0' | 15 ^h 29' |

Delta T = 09m46s Julian Calendar 1 Sept. 1250 == Greg. Calendar 8 Sept. 1250

OCTOBER 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|------------------------|---------------------|------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|-------------------|--------------------|---------------------|---------------------|
| S 1 | 1 6 25 | 14 ^h 43'49" | 3 ^h 43' | 9 ^m 3 | 28 ^h 14' | 25°53' | 12 ^h 1' | 1 ^m 21' | 1°R27 | 10 ^h 10' | 14 ^m 39 | 5 ^m 8 | 6 ^m 2 | 17 ^h 7' | 15°R26 |
| S 2 | 1 10 22 | 15°43'32" | 17°53' | 9°47' | 29°29' | 26°12' | 12° 1' | 1°27' | 1 ^h 26' | 10°10' | 14°42' | 5° 9' | 5°59' | 17°13' | 15 ^h 23' |
| M 3 | 1 14 18 | 16°43'15" | 1 ^h 37' | 10°27' | 0 ^h 43' | 26°54' | 12° 1' | 1°33' | 1°24' | 10°11' | 14°44' | 5°10' | 5°56' | 17°20' | 15°21' |
| T 4 | 1 18 15 | 17°43'01" | 14°57' | 11° 2' | 1°58' | 27°35' | 12° 2' | 1°38' | 1°23' | 10°11' | 14°46' | 5°R11' | 5°53' | 17°27' | 15°18' |
| W 5 | 1 22 11 | 18°42'49" | 27°53' | 11°32' | 3°13' | 28°17' | 12° 2' | 1°44' | 1°21' | 10°11' | 14°48' | 5°10' | 5°50' | 17°33' | 15°15' |
| T 6 | 1 26 8 | 19°42'38" | 10 ^h 30' | 11°55' | 4°28' | 28°58' | 12° 3' | 1°50' | 1°20' | 10°R11' | 14°50' | 5° 9' | 5°47' | 17°40' | 15°12' |
| F 7 | 1 30 4 | 20°42'28" | 22°50' | 12°12' | 5°43' | 29°40' | 12° 4' | 1°56' | 1°19' | 10°11' | 14°53' | 5° 8' | 5°43' | 17°47' | 15°10' |
| S 8 | 1 34 1 | 21°42'21" | 4 ^h 59' | 12°22' | 6°58' | 0 ^h 21' | 12° 6' | 2° 2' | 1°17' | 10°11' | 14°55' | 5° 6' | 5°40' | 17°53' | 15° 7' |
| S 9 | 1 37 58 | 22°42'15" | 16°58' | 12°R25' | 8°12' | 1° 3' | 12° 7' | 2° 8' | 1°16' | 10°11' | 14°57' | 5° 4' | 5°37' | 18° 0' | 15° 4' |
| M10 | 1 41 54 | 23°42'11" | 28°51' | 12°19' | 9°27' | 1°45' | 12° 9' | 2°14' | 1°15' | 10°11' | 14°59' | 5° 2' | 5°34' | 18° 7' | 15° 1' |
| T 11 | 1 45 51 | 24°42'09" | 10 ^h 41' | 12° 4' | 10°42' | 2°26' | 12°11' | 2°20' | 1°14' | 10°10' | 15° 2' | 5° 1' | 5°31' | 18°13' | 14°58' |
| W12 | 1 49 47 | 25°42'09" | 22°29' | 11°41' | 11°57' | 3° 8' | 12°13' | 2°26' | 1°13' | 10°10' | 15° 4' | 5° 0' | 5°27' | 18°20' | 14°55' |
| T 13 | 1 53 44 | 26°42'10" | 4 ^h 18' | 11° 8' | 13°12' | 3°50' | 12°15' | 2°32' | 1°12' | 10°10' | 15° 6' | 5°D 0' | 5°24' | 18°27' | 14°52' |
| F 14 | 1 57 40 | 27°42'14" | 16°10' | 10°25' | 14°27' | 4°32' | 12°18' | 2°38' | 1°11' | 10°10' | 15° 9' | 5° 0' | 5°21' | 18°33' | 14°49' |
| S 15 | 2 1 37 | 28°42'19" | 28° 7' | 9°33' | 15°41' | 5°14' | 12°20' | 2°44' | 1°10' | 10° 9' | 15°11' | 5° 0' | 5°18' | 18°40' | 14°46' |
| S 16 | 2 5 33 | 29°42'27" | 10 ^h 12' | 8°33' | 16°56' | 5°56' | 12°23' | 2°50' | 1° 9' | 10° 9' | 15°13' | 5° 1' | 5°15' | 18°47' | 14°43' |
| M17 | 2 9 30 | 0 ^h 42'37" | 22°28' | 7°25' | 18°11' | 6°38' | 12°26' | 2°57' | 1° 8' | 10° 9' | 15°16' | 5° 2' | 5°12' | 18°53' | 14°40' |
| T 18 | 2 13 26 | 1°42'49" | 4 ^h 56' | 6°12' | 19°26' | 7°20' | 12°30' | 3° 3' | 1° 7' | 10° 8' | 15°18' | 5° 2' | 5° 8' | 19° 0' | 14°37' |
| W19 | 2 17 23 | 2°43'02" | 17°42' | 4°54' | 20°41' | 8° 2' | 12°33' | 3°10' | 1° 6' | 10° 8' | 15°20' | 5° 2' | 5° 5' | 19° 7' | 14°34' |
| T 20 | 2 21 20 | 3°43'18" | 0 ^h 47' | 3°35' | 21°55' | 8°45' | 12°37' | 3°16' | 1° 6' | 10° 8' | 15°23' | 5°R 2' | 5° 2' | 19°13' | 14°31' |
| F 21 | 2 25 16 | 4°43'36" | 14°15' | 2°17' | 23°10' | 9°27' | 12°41' | 3°22' | 1° 5' | 10° 7' | 15°25' | 5°D 2' | 4°59' | 19°20' | 14°27' |
| S 22 | 2 29 13 | 5°43'56" | 28° 7' | 1° 2' | 24°25' | 10° 9' | 12°45' | 3°29' | 1° 4' | 10° 7' | 15°27' | 5° 2' | 4°56' | 19°26' | 14°24' |
| S 23 | 2 33 9 | 6°44'18" | 12 ^h 24' | 29°52' | 25°40' | 10°52' | 12°49' | 3°35' | 1° 4' | 10° 6' | 15°30' | 5° 2' | 4°52' | 19°33' | 14°21' |
| M24 | 2 37 6 | 7°44'42" | 27° 2' | 28°51' | 26°55' | 11°34' | 12°53' | 3°42' | 1° 3' | 10° 5' | 15°32' | 5° 3' | 4°49' | 19°40' | 14°18' |
| T 25 | 2 41 2 | 8°45'08" | 11 ^h 58' | 27°59' | 28° 9' | 12°17' | 12°58' | 3°49' | 1° 3' | 10° 5' | 15°35' | 5° 3' | 4°46' | 19°46' | 14°15' |
| W26 | 2 44 59 | 9°45'36" | 27° 4' | 27°18' | 29°24' | 12°59' | 13° 3' | 3°55' | 1° 2' | 10° 4' | 15°37' | 5° 3' | 4°43' | 19°53' | 14°12' |
| T 27 | 2 48 55 | 10°46'05" | 12 ^h 13' | 26°49' | 0 ^h 39' | 13°42' | 13° 7' | 4° 2' | 1° 2' | 10° 4' | 15°39' | 5°R 3' | 4°40' | 20° 0' | 14° 8' |
| F 28 | 2 52 52 | 11°46'36" | 27°13' | 26°31' | 1°54' | 14°24' | 13°13' | 4° 9' | 1° 1' | 10° 3' | 15°42' | 5° 3' | 4°37' | 20° 6' | 14° 5' |
| S 29 | 2 56 49 | 12°47'09" | 11 ^h 57' | 26°D25' | 3° 9' | 15° 7' | 13°18' | 4°15' | 1° 1' | 10° 2' | 15°44' | 5° 2' | 4°33' | 20°13' | 14° 2' |
| S 30 | 3 0 45 | 13°47'43" | 26°19' | 26°30' | 4°23' | 15°50' | 13°23' | 4°22' | 1° 1' | 10° 1' | 15°47' | 5° 1' | 4°30' | 20°20' | 13°59' |
| M31 | 3 4 42 | 14 ^h 48'19" | 10 ^h 15' | 26°45' | 5 ^h 38' | 16 ^h 33' | 13 ^h 29' | 4 ^h 29' | 1 ^h 1' | 10 ^h 1' | 15 ^m 49' | 5 ^m 0' | 4 ^m 27' | 20 ^h 26' | 13 ^h 55' |

Delta T = 09m46s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 1250

NOVEMBER 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|-----|---------|----------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|------|-------|-------|
| T 1 | 3 8 38 | 15M48'56 | 23C43 | 27D10 | 6A53 | 17M16 | 13A35 | 4A36 | 1R 1 | 10R 0 | 15M51 | 4R59 | 4M24 | 20Y33 | 13R52 |
| W 2 | 3 12 35 | 16°49'34 | 6A45 | 27°44 | 8° 8 | 17°59 | 13°41 | 4°42 | 1K 1 | 9E59 | 15°54 | 4M58 | 4°21 | 20°40 | 13C49 |
| T 3 | 3 16 31 | 17°50'13 | 19°24 | 28°26 | 9°23 | 18°41 | 13°47 | 4°49 | 1D 1 | 9°58 | 15°56 | 4D58 | 4°18 | 20°46 | 13°46 |
| F 4 | 3 20 28 | 18°50'53 | 1K43 | 29°14 | 10°37 | 19°25 | 13°53 | 4°56 | 1° 1 | 9°57 | 15°59 | 4°58 | 4°14 | 20°53 | 13°43 |
| S 5 | 3 24 24 | 19°51'35 | 13°48 | 0M 9 | 11°52 | 20° 8 | 14° 0 | 5° 3 | 1° 1 | 9°56 | 16° 1 | 4°59 | 4°11 | 21° 0 | 13°39 |
| S 6 | 3 28 21 | 20°52'17 | 25°43 | 1° 9 | 13° 7 | 20°51 | 14° 7 | 5°10 | 1° 1 | 9°55 | 16° 3 | 5° 1 | 4° 8 | 21° 6 | 13°36 |
| M 7 | 3 32 18 | 21°53'01 | 7Y32 | 2°14 | 14°21 | 21°34 | 14°13 | 5°17 | 1° 1 | 9°54 | 16° 6 | 5° 2 | 4° 5 | 21°13 | 13°33 |
| T 8 | 3 36 14 | 22°53'46 | 19°19 | 3°23 | 15°36 | 22°17 | 14°20 | 5°24 | 1° 1 | 9°53 | 16° 8 | 5° 4 | 4° 2 | 21°20 | 13°30 |
| W 9 | 3 40 11 | 23°54'32 | 1R 8 | 4°36 | 16°51 | 23° 0 | 14°28 | 5°31 | 1° 1 | 9°52 | 16°11 | 5°R 4 | 3°58 | 21°26 | 13°27 |
| T10 | 3 44 7 | 24°55'19 | 13° 1 | 5°51 | 18° 6 | 23°44 | 14°35 | 5°38 | 1° 2 | 9°51 | 16°13 | 5° 4 | 3°55 | 21°33 | 13°23 |
| F11 | 3 48 4 | 25°56'08 | 25° 2 | 7° 9 | 19°20 | 24°27 | 14°42 | 5°45 | 1° 2 | 9°50 | 16°15 | 5° 3 | 3°52 | 21°39 | 13°20 |
| S12 | 3 52 0 | 26°56'57 | 7II11 | 8°29 | 20°35 | 25°10 | 14°50 | 5°52 | 1° 3 | 9°49 | 16°18 | 5° 0 | 3°49 | 21°46 | 13°17 |
| S13 | 3 55 57 | 27°57'48 | 19°30 | 9°52 | 21°50 | 25°54 | 14°58 | 5°59 | 1° 3 | 9°48 | 16°20 | 4°57 | 3°46 | 21°53 | 13°14 |
| M14 | 3 59 53 | 28°58'41 | 2E 0 | 11°15 | 23° 4 | 26°37 | 15° 6 | 6° 6 | 1° 4 | 9°46 | 16°22 | 4°53 | 3°43 | 21°59 | 13°11 |
| T15 | 4 3 50 | 29°59'34 | 14°43 | 12°40 | 24°19 | 27°21 | 15°14 | 6°13 | 1° 4 | 9°45 | 16°25 | 4°49 | 3°39 | 22° 6 | 13° 8 |
| W16 | 4 7 47 | 1A 0'29 | 27°39 | 14° 7 | 25°33 | 28° 5 | 15°22 | 6°20 | 1° 5 | 9°44 | 16°27 | 4°45 | 3°36 | 22°13 | 13° 5 |
| T17 | 4 11 43 | 2° 1'25 | 10A50 | 15°34 | 26°48 | 28°48 | 15°30 | 6°27 | 1° 5 | 9°43 | 16°29 | 4°42 | 3°33 | 22°19 | 13° 2 |
| F18 | 4 15 40 | 3° 2'23 | 24°17 | 17° 2 | 28° 3 | 29°32 | 15°39 | 6°34 | 1° 6 | 9°41 | 16°32 | 4°41 | 3°30 | 22°26 | 12°59 |
| S19 | 4 19 36 | 4° 3'21 | 8M 0 | 18°30 | 29°17 | 0A16 | 15°47 | 6°41 | 1° 7 | 9°40 | 16°34 | 4D40 | 3°27 | 22°33 | 12°56 |
| S20 | 4 23 33 | 5° 4'21 | 22° 1 | 20° 0 | 0C32 | 1° 0 | 15°56 | 6°48 | 1° 8 | 9°39 | 16°36 | 4°41 | 3°24 | 22°39 | 12°53 |
| M21 | 4 27 29 | 6° 5'22 | 6A19 | 21°30 | 1°46 | 1°43 | 16° 5 | 6°55 | 1° 9 | 9°38 | 16°39 | 4°43 | 3°20 | 22°46 | 12°50 |
| T22 | 4 31 26 | 7° 6'25 | 20°51 | 23° 0 | 3° 1 | 2°27 | 16°14 | 7° 2 | 1°10 | 9°36 | 16°41 | 4°44 | 3°17 | 22°53 | 12°47 |
| W23 | 4 35 22 | 8° 7'28 | 5M35 | 24°30 | 4°16 | 3°11 | 16°23 | 7° 9 | 1°11 | 9°35 | 16°43 | 4R45 | 3°14 | 22°59 | 12°44 |
| T24 | 4 39 19 | 9° 8'33 | 20°24 | 26° 1 | 5°30 | 3°55 | 16°33 | 7°16 | 1°12 | 9°33 | 16°46 | 4°44 | 3°11 | 23° 6 | 12°42 |
| F25 | 4 43 16 | 10° 9'38 | 5A11 | 27°33 | 6°45 | 4°40 | 16°42 | 7°23 | 1°13 | 9°32 | 16°48 | 4°41 | 3° 8 | 23°13 | 12°39 |
| S26 | 4 47 12 | 11°10'44 | 19°49 | 29° 4 | 7°59 | 5°24 | 16°52 | 7°31 | 1°14 | 9°31 | 16°50 | 4°37 | 3° 4 | 23°19 | 12°36 |
| S27 | 4 51 9 | 12°11'51 | 4C11 | 0A36 | 9°14 | 6° 8 | 17° 1 | 7°38 | 1°15 | 9°29 | 16°52 | 4°31 | 3° 1 | 23°26 | 12°33 |
| M28 | 4 55 5 | 13°12'59 | 18°10 | 2° 8 | 10°28 | 6°52 | 17°11 | 7°45 | 1°16 | 9°28 | 16°55 | 4°24 | 2°58 | 23°32 | 12°31 |
| T29 | 4 59 2 | 14°14'07 | 1A44 | 3°40 | 11°43 | 7°36 | 17°21 | 7°52 | 1°18 | 9°26 | 16°57 | 4°18 | 2°55 | 23°39 | 12°28 |
| W30 | 5 2 58 | 15A15'15 | 14A52 | 5A12 | 12C57 | 8A21 | 17A31 | 7A59 | 1K19 | 9E25 | 16M59 | 4M13 | 2M52 | 23Y46 | 12C25 |

Delta T = 09m45s Julian Calendar 1 Nov. 1250 == Greg. Calendar 8 Nov. 1250

DECEMBER 1250 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|-----|---------|----------|-------|-------|-------|-------|-------|-------|------|------|-------|------|------|-------|-------|
| T 1 | 5 6 55 | 16A17'24 | 27A36 | 6A45 | 14C12 | 9A 5 | 17A42 | 8A 6 | 1K20 | 9R23 | 17M 1 | 4R 9 | 2M49 | 23Y52 | 12R23 |
| F 2 | 5 10 51 | 17°17'32 | 9K58 | 8°18 | 15°26 | 9°49 | 17°52 | 8°13 | 1°22 | 9E22 | 17° 3 | 4M 7 | 2°45 | 23°59 | 12C20 |
| S 3 | 5 14 48 | 18°18'41 | 22° 4 | 9°50 | 16°40 | 10°34 | 18° 2 | 8°20 | 1°23 | 9°20 | 17° 5 | 4D 7 | 2°42 | 24° 6 | 12°18 |
| S 4 | 5 18 45 | 19°19'50 | 3Y59 | 11°24 | 17°55 | 11°18 | 18°13 | 8°27 | 1°25 | 9°18 | 17° 8 | 4° 8 | 2°39 | 24°12 | 12°16 |
| M 5 | 5 22 41 | 20°21'00 | 15°47 | 12°57 | 19° 9 | 12° 3 | 18°24 | 8°34 | 1°26 | 9°17 | 17°10 | 4° 9 | 2°36 | 24°19 | 12°13 |
| T 6 | 5 26 38 | 21°22'09 | 27°34 | 14°30 | 20°24 | 12°47 | 18°34 | 8°41 | 1°28 | 9°15 | 17°12 | 4°10 | 2°33 | 24°26 | 12°11 |
| W 7 | 5 30 34 | 22°23'19 | 9C25 | 16° 4 | 21°38 | 13°32 | 18°45 | 8°48 | 1°30 | 9°14 | 17°14 | 4R10 | 2°30 | 24°32 | 12° 9 |
| T 8 | 5 34 31 | 23°24'28 | 21°23 | 17°38 | 22°52 | 14°17 | 18°56 | 8°55 | 1°31 | 9°12 | 17°16 | 4° 9 | 2°26 | 24°39 | 12° 6 |
| F 9 | 5 38 27 | 24°25'38 | 3II33 | 19°12 | 24° 6 | 15° 1 | 19° 7 | 9° 1 | 1°33 | 9°10 | 17°18 | 4° 5 | 2°23 | 24°46 | 12° 4 |
| S10 | 5 42 24 | 25°26'48 | 15°55 | 20°47 | 25°21 | 15°46 | 19°18 | 9° 8 | 1°35 | 9° 9 | 17°20 | 3°58 | 2°20 | 24°52 | 12° 2 |
| S11 | 5 46 21 | 26°27'59 | 28°32 | 22°21 | 26°35 | 16°31 | 19°30 | 9°15 | 1°37 | 9° 7 | 17°22 | 3°50 | 2°17 | 24°59 | 12° 0 |
| M12 | 5 50 17 | 27°29'09 | 11E23 | 23°56 | 27°49 | 17°16 | 19°41 | 9°22 | 1°39 | 9° 5 | 17°24 | 3°40 | 2°14 | 25° 6 | 11°58 |
| T13 | 5 54 14 | 28°30'19 | 24°28 | 25°32 | 29° 3 | 18° 1 | 19°53 | 9°29 | 1°41 | 9° 4 | 17°26 | 3°29 | 2°10 | 25°12 | 11°56 |
| W14 | 5 58 10 | 29°31'30 | 7A45 | 27° 7 | 0A17 | 18°46 | 20° 4 | 9°36 | 1°43 | 9° 2 | 17°28 | 3°20 | 2° 7 | 25°19 | 11°54 |
| T15 | 6 2 7 | 0C32'41 | 21°14 | 28°43 | 1°31 | 19°31 | 20°16 | 9°42 | 1°45 | 9° 0 | 17°30 | 3°12 | 2° 4 | 25°25 | 11°52 |
| F16 | 6 6 3 | 1°33'52 | 4M52 | 0C20 | 2°45 | 20°16 | 20°28 | 9°49 | 1°47 | 8°59 | 17°32 | 3° 6 | 2° 1 | 25°32 | 11°51 |
| S17 | 6 10 0 | 2°35'03 | 18°40 | 1°56 | 3°59 | 21° 1 | 20°40 | 9°56 | 1°49 | 8°57 | 17°33 | 3° 3 | 1°58 | 25°39 | 11°49 |
| S18 | 6 13 56 | 3°36'15 | 2A36 | 3°33 | 5°13 | 21°46 | 20°51 | 10° 3 | 1°51 | 8°55 | 17°35 | 3D 2 | 1°55 | 25°45 | 11°47 |
| M19 | 6 17 53 | 4°37'26 | 16°40 | 5°11 | 6°27 | 22°31 | 21° 4 | 10° 9 | 1°53 | 8°54 | 17°37 | 3° 3 | 1°51 | 25°52 | 11°45 |
| T20 | 6 21 50 | 5°38'38 | 0M52 | 6°49 | 7°41 | 23°16 | 21°16 | 10°16 | 1°55 | 8°52 | 17°39 | 3R 3 | 1°48 | 25°59 | 11°44 |
| W21 | 6 25 46 | 6°39'50 | 15°10 | 8°27 | 8°55 | 24° 2 | 21°28 | 10°23 | 1°58 | 8°50 | 17°41 | 3° 3 | 1°45 | 26° 5 | 11°42 |
| T22 | 6 29 43 | 7°41'02 | 29°32 | 10° 6 | 10° 9 | 24°47 | 21°40 | 10°29 | 2° 0 | 8°49 | 17°42 | 3° 0 | 1°42 | 26°12 | 11°41 |
| F23 | 6 33 39 | 8°42'14 | 13A54 | 11°45 | 11°22 | 25°32 | 21°53 | 10°36 | 2° 2 | 8°47 | 17°44 | 2°54 | 1°39 | 26°19 | 11°40 |
| S24 | 6 37 36 | 9°43'26 | 28°10 | 13°24 | 12°36 | 26°18 | 22° 5 | 10°42 | 2° 5 | 8°45 | 17°46 | 2°46 | 1°36 | 26°25 | 11°38 |
| S25 | 6 41 32 | 10°44'37 | 12C15 | 15° 4 | 13°50 | 27° 3 | 22°18 | 10°49 | 2° 7 | 8°44 | 17°47 | 2°35 | 1°32 | 26°32 | 11°37 |
| M26 | 6 45 29 | 11°45'48 | 26° 4 | 16°45 | 15° 4 | 27°48 | 22°30 | 10°55 | 2° 9 | 8°42 | 17°49 | 2°23 | 1°29 | 26°39 | 11°36 |
| T27 | 6 49 25 | 12°46'59 | 9A32 | 18°25 | 16°17 | 28°34 | 22°43 | 11° 1 | 2°12 | 8°40 | 17°51 | 2°11 | 1°26 | 26°45 | 11°35 |
| W28 | 6 53 22 | 13°48'09 | 22°39 | 20° 6 | 17°31 | 29°19 | 22°56 | 11° 8 | 2°14 | 8°38 | 17°52 | 2° 0 | 1°23 | 26°52 | 11°34 |
| T29 | 6 57 19 | 14°49'18 | 5K23 | 21°48 | 18°44 | 0C 5 | 23° 8 | 11°14 | 2°17 | 8°37 | 17°54 | 1°52 | 1°20 | 26°59 | 11°33 |
| F30 | 7 1 15 | 15°50'26 | 17°47 | 23°30 | 19°58 | 0°51 | 23°21 | 11°20 | 2°20 | 8°35 | 17°55 | 1°46 | 1°16 | 27° 5 | 11°32 |
| S31 | 7 5 12 | 16C51'34 | 29K55 | 25C12 | 21A11 | 1C36 | 23A34 | 11A27 | 2K22 | 8E33 | 17M57 | 1M42 | 1M13 | 27Y12 | 11C31 |

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