

SWISS EPHEMERIS for the year 1103

JANUARY 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|--------|--------|------|--------|--------|--------|--------|-------|------|--------|
| T 1 | 7 4 37 | 16♁47'56 | 18♏13 | 22♁32 | 1♁41 | 23♏5 | 20°R54 | 1♁41 | 20°R23 | 14°R19 | 12°V46 | 13°R 9 | 13♁44 | 4♁59 | 10°R30 |
| F 2 | 7 8 33 | 17°49'01 | 0♁18 | 23°29 | 2°49 | 23°47 | 20♏54 | 1°46 | 20♁22 | 14♁18 | 12°46 | 13♁ 7 | 13°41 | 5° 6 | 10♁29 |
| S 3 | 7 12 30 | 18°50'05 | 12°37 | 24°30 | 3°58 | 24°29 | 20°53 | 1°52 | 20°21 | 14°16 | 12°46 | 13° 7 | 13°38 | 5°12 | 10°29 |
| S 4 | 7 16 26 | 19°51'08 | 25°14 | 25°34 | 5° 6 | 25°11 | 20°53 | 1°58 | 20°20 | 14°15 | 12°46 | 13° 7 | 13°35 | 5°19 | 10°28 |
| M 5 | 7 20 23 | 20°52'11 | 8♏16 | 26°39 | 6°15 | 25°53 | 20°52 | 2° 3 | 20°19 | 14°13 | 12°47 | 13° 6 | 13°32 | 5°26 | 10°28 |
| T 6 | 7 24 19 | 21°53'13 | 21°46 | 27°48 | 7°24 | 26°35 | 20°50 | 2° 8 | 20°19 | 14°12 | 12°47 | 13° 3 | 13°28 | 5°32 | 10°27 |
| W 7 | 7 28 16 | 22°54'15 | 5♁45 | 28°58 | 8°33 | 27°18 | 20°49 | 2°14 | 20°18 | 14°10 | 12°48 | 12°57 | 13°25 | 5°39 | 10°27 |
| T 8 | 7 32 13 | 23°55'16 | 20°15 | 0♁10 | 9°42 | 28° 0 | 20°48 | 2°19 | 20°17 | 14° 9 | 12°48 | 12°49 | 13°22 | 5°46 | 10°26 |
| F 9 | 7 36 9 | 24°56'17 | 5♁11 | 1°24 | 10°51 | 28°42 | 20°46 | 2°24 | 20°16 | 14° 7 | 12°48 | 12°39 | 13°19 | 5°53 | 10°26 |
| S 10 | 7 40 6 | 25°57'16 | 20°24 | 2°40 | 12° 1 | 29°24 | 20°44 | 2°29 | 20°16 | 14° 6 | 12°49 | 12°27 | 13°16 | 5°59 | 10°26 |
| S 11 | 7 44 2 | 26°58'15 | 5♁45 | 3°57 | 13°10 | 0°V 6 | 20°42 | 2°34 | 20°15 | 14° 4 | 12°49 | 12°16 | 13°13 | 6° 6 | 10°26 |
| M12 | 7 47 59 | 27°59'12 | 21° 1 | 5°15 | 14°20 | 0°48 | 20°39 | 2°39 | 20°15 | 14° 3 | 12°50 | 12° 7 | 13° 9 | 6°13 | 10°25 |
| T 13 | 7 51 55 | 29° 0'08 | 6♁ 1 | 6°35 | 15°30 | 1°30 | 20°37 | 2°44 | 20°14 | 14° 1 | 12°50 | 12° 0 | 13° 6 | 6°19 | 10°D25 |
| W14 | 7 55 52 | 0♁ 1'03 | 20°39 | 7°56 | 16°40 | 2°12 | 20°34 | 2°49 | 20°14 | 13°59 | 12°51 | 11°56 | 13° 3 | 6°26 | 10°25 |
| T 15 | 7 59 48 | 1° 1'56 | 4°V49 | 9°18 | 17°50 | 2°54 | 20°31 | 2°54 | 20°13 | 13°58 | 12°51 | 11°54 | 13° 0 | 6°33 | 10°26 |
| F 16 | 8 3 45 | 2° 2'47 | 18°31 | 10°41 | 19° 0 | 3°36 | 20°28 | 2°59 | 20°13 | 13°56 | 12°52 | 11°D54 | 12°57 | 6°40 | 10°26 |
| S 17 | 8 7 42 | 3° 3'38 | 1♁48 | 12° 5 | 20°10 | 4°18 | 20°25 | 3° 3 | 20°13 | 13°54 | 12°52 | 11°R54 | 12°53 | 6°46 | 10°26 |
| S 18 | 8 11 38 | 4° 4'26 | 14°42 | 13°30 | 21°20 | 5° 0 | 20°22 | 3° 8 | 20°12 | 13°53 | 12°53 | 11°54 | 12°50 | 6°53 | 10°26 |
| M19 | 8 15 35 | 5° 5'13 | 27°17 | 14°57 | 22°30 | 5°42 | 20°18 | 3°13 | 20°12 | 13°51 | 12°54 | 11°51 | 12°47 | 7° 0 | 10°27 |
| T 20 | 8 19 31 | 6° 5'59 | 9♏37 | 16°24 | 23°41 | 6°24 | 20°14 | 3°17 | 20°12 | 13°49 | 12°54 | 11°46 | 12°44 | 7° 6 | 10°27 |
| W21 | 8 23 28 | 7° 6'43 | 21°47 | 17°52 | 24°51 | 7° 6 | 20°10 | 3°21 | 20°12 | 13°48 | 12°55 | 11°39 | 12°41 | 7°13 | 10°28 |
| T 22 | 8 27 24 | 8° 7'25 | 3♁49 | 19°21 | 26° 2 | 7° 6 | 20° 6 | 3°26 | 20°D12 | 13°46 | 12°56 | 11°29 | 12°38 | 7°20 | 10°28 |
| F 23 | 8 31 21 | 9° 8'06 | 15°46 | 20°51 | 27°13 | 8°29 | 20° 2 | 3°30 | 20°12 | 13°44 | 12°56 | 11°17 | 12°34 | 7°27 | 10°29 |
| S 24 | 8 35 17 | 10° 8'46 | 27°40 | 22°22 | 28°23 | 9°11 | 19°58 | 3°34 | 20°12 | 13°43 | 12°57 | 11° 5 | 12°31 | 7°33 | 10°30 |
| S 25 | 8 39 14 | 11° 9'23 | 9♁32 | 23°53 | 29°34 | 9°53 | 19°53 | 3°38 | 20°12 | 13°41 | 12°58 | 10°52 | 12°28 | 7°40 | 10°30 |
| M26 | 8 43 11 | 12° 9'59 | 21°24 | 25°26 | 0♁45 | 10°34 | 19°48 | 3°42 | 20°12 | 13°39 | 12°58 | 10°42 | 12°25 | 7°47 | 10°31 |
| T 27 | 8 47 7 | 13°10'34 | 3♏16 | 27° 0 | 1°56 | 11°16 | 19°43 | 3°46 | 20°13 | 13°38 | 12°59 | 10°33 | 12°22 | 7°53 | 10°32 |
| W28 | 8 51 4 | 14°11'07 | 15°12 | 28°34 | 3° 7 | 11°58 | 19°38 | 3°50 | 20°13 | 13°36 | 13° 0 | 10°27 | 12°18 | 8° 0 | 10°33 |
| T 29 | 8 55 0 | 15°11'39 | 27°14 | 0♁ 9 | 4°19 | 12°40 | 19°33 | 3°53 | 20°13 | 13°34 | 13° 1 | 10°24 | 12°15 | 8° 7 | 10°34 |
| F 30 | 8 58 57 | 16°12'10 | 9♁23 | 1°45 | 5°30 | 13°21 | 19°28 | 3°57 | 20°14 | 13°33 | 13° 2 | 10°D23 | 12°12 | 8°14 | 10°35 |
| S 31 | 9 2 53 | 17°12'39 | 21♁45 | 3♁22 | 6♁41 | 14°V 3 | 19°D22 | 4♁ 0 | 20♁14 | 13♁31 | 13°V 2 | 10♁23 | 12♁ 9 | 8♁20 | 10♁36 |

Delta T = 17m50s Julian Calendar 1 Jan. 1103 == Greg. Calendar 8 Jan. 1103

FEBRUARY 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|--------|-------|-------|--------|--------|------|-------|--------|--------|--------|-------|-------|-------|
| S 1 | 9 6 50 | 18♁13'06 | 4♏23 | 5♁ 1 | 7♁52 | 14°V44 | 19°R17 | 4♁ 4 | 20♁15 | 13°R29 | 13°V 3 | 10♁25 | 12♁ 6 | 8♁27 | 10♁38 |
| M 2 | 9 10 46 | 19°13'32 | 17°20 | 6°39 | 9° 4 | 15°26 | 19♏11 | 4° 7 | 20°15 | 13♁28 | 13° 4 | 10°R25 | 12° 3 | 8°34 | 10°39 |
| T 3 | 9 14 43 | 20°13'57 | 0♁42 | 8°19 | 10°15 | 16° 7 | 19° 5 | 4°11 | 20°16 | 13°26 | 13° 5 | 10°25 | 11°59 | 8°40 | 10°40 |
| W 4 | 9 18 40 | 21°14'21 | 14°31 | 10° 0 | 11°27 | 16°49 | 18°59 | 4°14 | 20°16 | 13°24 | 13° 6 | 10°22 | 11°56 | 8°47 | 10°42 |
| T 5 | 9 22 36 | 22°14'43 | 28°48 | 11°42 | 12°38 | 17°30 | 18°53 | 4°17 | 20°17 | 13°23 | 13° 7 | 10°18 | 11°53 | 8°54 | 10°43 |
| F 6 | 9 26 33 | 23°15'04 | 13♁30 | 13°25 | 13°50 | 18°12 | 18°46 | 4°20 | 20°18 | 13°21 | 13° 8 | 10°12 | 11°50 | 9° 0 | 10°45 |
| S 7 | 9 30 29 | 24°15'23 | 28°32 | 15° 9 | 15° 2 | 18°53 | 18°40 | 4°23 | 20°19 | 13°19 | 13° 9 | 10° 5 | 11°47 | 9° 7 | 10°46 |
| S 8 | 9 34 26 | 25°15'40 | 13♁46 | 16°53 | 16°13 | 19°35 | 18°33 | 4°26 | 20°20 | 13°18 | 13°10 | 9°58 | 11°44 | 9°14 | 10°48 |
| M 9 | 9 38 22 | 26°15'56 | 29° 1 | 18°39 | 17°25 | 20°16 | 18°27 | 4°28 | 20°21 | 13°16 | 13°11 | 9°51 | 11°40 | 9°21 | 10°50 |
| T 10 | 9 42 19 | 27°16'09 | 14♁ 7 | 20°26 | 18°37 | 20°58 | 18°20 | 4°31 | 20°22 | 13°14 | 13°12 | 9°47 | 11°37 | 9°27 | 10°51 |
| W11 | 9 46 15 | 28°16'21 | 28°54 | 22°14 | 19°49 | 21°39 | 18°13 | 4°34 | 20°23 | 13°13 | 13°13 | 9°45 | 11°34 | 9°34 | 10°53 |
| T 12 | 9 50 12 | 29°16'31 | 13°V16 | 24° 3 | 21° 1 | 22°20 | 18° 6 | 4°36 | 20°24 | 13°11 | 13°14 | 9°D44 | 11°31 | 9°41 | 10°55 |
| F 13 | 9 54 9 | 0♁16'38 | 27°10 | 25°53 | 22°13 | 23° 1 | 17°59 | 4°39 | 20°25 | 13°10 | 13°15 | 9°45 | 11°28 | 9°47 | 10°57 |
| S 14 | 9 58 5 | 1°16'44 | 10♁36 | 27°44 | 23°25 | 23°43 | 17°52 | 4°41 | 20°26 | 13° 8 | 13°16 | 9°47 | 11°24 | 9°54 | 10°59 |
| S 15 | 10 2 2 | 2°16'47 | 23°37 | 29°36 | 24°37 | 24°24 | 17°45 | 4°43 | 20°27 | 13° 6 | 13°17 | 9°48 | 11°21 | 10° 1 | 11° 1 |
| M16 | 10 5 58 | 3°16'48 | 6♏15 | 1♁29 | 25°49 | 25° 5 | 17°37 | 4°45 | 20°29 | 13° 5 | 13°18 | 9°R48 | 11°18 | 10° 8 | 11° 3 |
| T 17 | 10 9 55 | 4°16'47 | 18°36 | 3°23 | 27° 1 | 25°46 | 17°30 | 4°47 | 20°30 | 13° 3 | 13°19 | 9°47 | 11°15 | 10°14 | 11° 5 |
| W18 | 10 13 51 | 5°16'44 | 0♁44 | 5°19 | 28°13 | 26°27 | 17°23 | 4°49 | 20°31 | 13° 2 | 13°21 | 9°44 | 11°12 | 10°21 | 11° 8 |
| T 19 | 10 17 48 | 6°16'38 | 12°42 | 7°14 | 29°25 | 27° 9 | 17°15 | 4°51 | 20°33 | 13° 0 | 13°22 | 9°40 | 11° 9 | 10°28 | 11°10 |
| F 20 | 10 21 44 | 7°16'31 | 24°35 | 9°11 | 0♁37 | 27°50 | 17° 8 | 4°53 | 20°34 | 12°59 | 13°23 | 9°35 | 11° 5 | 10°34 | 11°12 |
| S 21 | 10 25 41 | 8°16'21 | 6♁26 | 11° 9 | 1°50 | 28°31 | 17° 0 | 4°54 | 20°36 | 12°57 | 13°24 | 9°29 | 11° 2 | 10°41 | 11°15 |
| S 22 | 10 29 38 | 9°16'09 | 18°17 | 13° 7 | 3° 2 | 29°12 | 16°52 | 4°56 | 20°37 | 12°56 | 13°25 | 9°23 | 10°59 | 10°48 | 11°17 |
| M23 | 10 33 34 | 10°15'54 | 0♏11 | 15° 6 | 4°14 | 29°53 | 16°45 | 4°57 | 20°39 | 12°54 | 13°26 | 9°18 | 10°56 | 10°54 | 11°20 |
| T 24 | 10 37 31 | 11°15'38 | 12°10 | 17° 5 | 5°26 | 0♁34 | 16°37 | 4°58 | 20°41 | 12°53 | 13°28 | 9°14 | 10°53 | 11° 1 | 11°22 |
| W25 | 10 41 27 | 12°15'20 | 24°15 | 19° 4 | 6°39 | 1°15 | 16°29 | 5° 0 | 20°42 | 12°51 | 13°29 | 9°12 | 10°50 | 11° 8 | 11°25 |
| T 26 | 10 45 24 | 13°14'59 | 6♁27 | 21° 3 | 7°51 | 1°55 | 16°22 | 5° 1 | 20°44 | 12°50 | 13°30 | 9°D11 | 10°46 | 11°15 | 11°28 |
| F 27 | 10 49 20 | 14°14'37 | 18°49 | 23° 2 | 9° 3 | 2°36 | 16°14 | 5° 2 | 20°46 | 12°49 | 13°31 | 9°11 | 10°43 | 11°21 | 11°30 |
| S 28 | 10 53 17 | 15♁14'13 | 1♏23 | 25♁ 0 | 10♁16 | 3♁17 | 16♏ 6 | 5♁ 3 | 20♁48 | 12♁47 | 13°V33 | 9♁13 | 10♁40 | 11♁28 | 11♁33 |

Delta T = 17m50s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 1103

MARCH 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|
| S 1 | 10 57 13 | 16X13'47 | 14M11 | 26X57 | 11X28 | 3B58 | 15°R58 | 5X 3 | 20B50 | 12°R46 | 13Y34 | 9B14 | 10B37 | 11B35 | 11B36 |
| M 2 | 11 1 10 | 17°13'19 | 27°15 | 28°53 | 12°41 | 4°39 | 15M50 | 5° 4 | 20°51 | 12R45 | 13°35 | 9°16 | 10°34 | 11°41 | 11°39 |
| T 3 | 11 5 6 | 18°12'49 | 10X38 | 0Y48 | 13°53 | 5°19 | 15°43 | 5° 5 | 20°53 | 12°43 | 13°36 | 9°17 | 10°30 | 11°48 | 11°42 |
| W 4 | 11 9 3 | 19°12'18 | 24°21 | 2°40 | 15° 6 | 6° 0 | 15°35 | 5° 5 | 20°55 | 12°42 | 13°38 | 9°R17 | 10°27 | 11°55 | 11°45 |
| T 5 | 11 13 0 | 20°11'45 | 8Z5 | 4°30 | 16°18 | 6°41 | 15°27 | 5° 6 | 20°58 | 12°41 | 13°39 | 9°16 | 10°24 | 12° 2 | 11°48 |
| F 6 | 11 16 56 | 21°11'10 | 22°49 | 6°17 | 17°31 | 7°22 | 15°19 | 5° 6 | 21° 0 | 12°39 | 13°40 | 9°14 | 10°21 | 12° 8 | 11°51 |
| S 7 | 11 20 53 | 22°10'33 | 7X30 | 8° 0 | 18°44 | 8° 2 | 15°12 | 5° 6 | 21° 2 | 12°38 | 13°42 | 9°12 | 10°18 | 12°15 | 11°54 |
| S 8 | 11 24 49 | 23° 9'55 | 22°22 | 9°40 | 19°56 | 8°43 | 15° 4 | 5° 6 | 21° 4 | 12°37 | 13°43 | 9°10 | 10°15 | 12°22 | 11°57 |
| M 9 | 11 28 46 | 24° 9'14 | 7X18 | 11°15 | 21° 9 | 9°23 | 14°56 | 5°R 6 | 21° 6 | 12°36 | 13°44 | 9° 8 | 10°11 | 12°28 | 12° 0 |
| T 10 | 11 32 42 | 25° 8'32 | 22°10 | 12°46 | 22°21 | 10° 4 | 14°49 | 5° 6 | 21° 8 | 12°35 | 13°46 | 9° 7 | 10° 8 | 12°35 | 12° 3 |
| W11 | 11 36 39 | 26° 7'47 | 6Y50 | 14°12 | 23°34 | 10°44 | 14°41 | 5° 6 | 21°11 | 12°34 | 13°47 | 9°D 7 | 10° 5 | 12°42 | 12° 6 |
| T 12 | 11 40 35 | 27° 7'00 | 21°11 | 15°33 | 24°47 | 11°25 | 14°34 | 5° 6 | 21°13 | 12°32 | 13°48 | 9° 7 | 10° 2 | 12°48 | 12°10 |
| F 13 | 11 44 32 | 28° 6'11 | 5B 9 | 16°49 | 25°59 | 12° 5 | 14°26 | 5° 5 | 21°15 | 12°31 | 13°50 | 9° 7 | 9°59 | 12°55 | 12°13 |
| S 14 | 11 48 29 | 29° 5'20 | 18°42 | 17°58 | 27°12 | 12°46 | 14°19 | 5° 5 | 21°18 | 12°30 | 13°51 | 9° 8 | 9°55 | 13° 2 | 12°16 |
| S 15 | 11 52 25 | 0Y 4'26 | 1II49 | 19° 1 | 28°25 | 13°26 | 14°12 | 5° 4 | 21°20 | 12°29 | 13°52 | 9° 9 | 9°52 | 13° 9 | 12°20 |
| M16 | 11 56 22 | 1° 3'31 | 14°34 | 19°58 | 29°38 | 14° 7 | 14° 5 | 5° 4 | 21°23 | 12°28 | 13°54 | 9°10 | 9°49 | 13°15 | 12°23 |
| T 17 | 12 0 18 | 2° 2'32 | 26°59 | 20°49 | 0X50 | 14°47 | 13°58 | 5° 3 | 21°25 | 12°27 | 13°55 | 9°R10 | 9°46 | 13°22 | 12°27 |
| W18 | 12 4 15 | 3° 1'32 | 9B 9 | 21°33 | 2° 3 | 15°27 | 13°50 | 5° 2 | 21°28 | 12°26 | 13°56 | 9°10 | 9°43 | 13°29 | 12°30 |
| T 19 | 12 8 11 | 4° 0'29 | 21° 8 | 22°10 | 3°16 | 16° 8 | 13°44 | 5° 1 | 21°31 | 12°25 | 13°58 | 9°10 | 9°40 | 13°35 | 12°34 |
| F 20 | 12 12 8 | 4°59'24 | 3B 1 | 22°41 | 4°29 | 16°48 | 13°37 | 5° 0 | 21°33 | 12°25 | 13°59 | 9°10 | 9°36 | 13°42 | 12°38 |
| S 21 | 12 16 4 | 5°58'16 | 14°52 | 23° 5 | 5°41 | 17°28 | 13°30 | 4°59 | 21°36 | 12°24 | 14° 1 | 9° 9 | 9°33 | 13°49 | 12°41 |
| S 22 | 12 20 1 | 6°57'06 | 26°44 | 23°22 | 6°54 | 18° 8 | 13°23 | 4°58 | 21°39 | 12°23 | 14° 2 | 9° 9 | 9°30 | 13°55 | 12°45 |
| M23 | 12 23 58 | 7°55'54 | 8M42 | 23°33 | 8° 7 | 18°48 | 13°17 | 4°56 | 21°41 | 12°22 | 14° 3 | 9° 9 | 9°27 | 14° 2 | 12°49 |
| T 24 | 12 27 54 | 8°54'40 | 20°47 | 23°R36 | 9°20 | 19°28 | 13°10 | 4°55 | 21°44 | 12°21 | 14° 5 | 9°D 8 | 9°24 | 14° 9 | 12°52 |
| W25 | 12 31 51 | 9°53'24 | 3B 3 | 23°34 | 10°33 | 20° 9 | 13° 4 | 4°53 | 21°47 | 12°20 | 14° 6 | 9°R 9 | 9°21 | 14°16 | 12°56 |
| T 26 | 12 35 47 | 10°52'05 | 15°31 | 23°26 | 11°45 | 20°49 | 12°58 | 4°52 | 21°50 | 12°20 | 14° 8 | 9° 9 | 9°17 | 14°22 | 13° 0 |
| F 27 | 12 39 44 | 11°50'45 | 28°11 | 23°11 | 12°58 | 21°29 | 12°52 | 4°50 | 21°53 | 12°19 | 14° 9 | 9° 8 | 9°14 | 14°29 | 13° 4 |
| S 28 | 12 43 40 | 12°49'23 | 11M 5 | 22°51 | 14°11 | 22° 9 | 12°46 | 4°48 | 21°55 | 12°18 | 14°10 | 9° 8 | 9°11 | 14°36 | 13° 8 |
| S 29 | 12 47 37 | 13°47'58 | 24°13 | 22°27 | 15°24 | 22°49 | 12°40 | 4°46 | 21°58 | 12°18 | 14°12 | 9° 8 | 9° 8 | 14°42 | 13°11 |
| M30 | 12 51 33 | 14°46'33 | 7X34 | 21°58 | 16°37 | 23°29 | 12°34 | 4°44 | 22° 1 | 12°17 | 14°13 | 9° 7 | 9° 5 | 14°49 | 13°15 |
| T 31 | 12 55 30 | 15Y45'05 | 21X 9 | 21Y25 | 17X50 | 24B 8 | 12M29 | 4X42 | 22B 4 | 12R17 | 14Y15 | 9B 6 | 9B 1 | 14R56 | 13B19 |

Delta T = 17m49s Julian Calendar 1 March 1103 == Greg. Calendar 8 March 1103

APRIL 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|--------|-------|--------|--------|-------|-------|--------|-------|-------|------|-------|-------|
| W 1 | 12 59 26 | 16Y43'36 | 4Z58 | 20°R49 | 19X 3 | 24B48 | 12°R23 | 4°R40 | 22B 7 | 12°R16 | 14Y16 | 9°R 6 | 8B58 | 15B 2 | 13B23 |
| T 2 | 13 3 23 | 17°42'05 | 18°59 | 20Y10 | 20°16 | 25°28 | 12M18 | 4X38 | 22°10 | 12R16 | 14°17 | 9°D 6 | 8°55 | 15° 9 | 13°27 |
| F 3 | 13 7 20 | 18°40'33 | 3X11 | 19°30 | 21°28 | 26° 8 | 12°13 | 4°36 | 22°13 | 12°15 | 14°19 | 9B 6 | 8°52 | 15°16 | 13°31 |
| S 4 | 13 11 16 | 19°38'58 | 17°33 | 18°49 | 22°41 | 26°48 | 12° 8 | 4°33 | 22°16 | 12°15 | 14°20 | 9° 7 | 8°49 | 15°22 | 13°35 |
| S 5 | 13 15 13 | 20°37'23 | 2X 0 | 18° 7 | 23°54 | 27°28 | 12° 3 | 4°31 | 22°19 | 12°14 | 14°22 | 9° 8 | 8°46 | 15°29 | 13°39 |
| M 6 | 13 19 9 | 21°35'45 | 16°29 | 17°27 | 25° 7 | 28° 7 | 11°58 | 4°28 | 22°23 | 12°14 | 14°23 | 9° 8 | 8°42 | 15°36 | 13°43 |
| T 7 | 13 23 6 | 22°34'06 | 0Y56 | 16°47 | 26°20 | 28°47 | 11°54 | 4°25 | 22°26 | 12°13 | 14°24 | 9° 9 | 8°39 | 15°43 | 13°47 |
| W 8 | 13 27 2 | 23°32'25 | 15°14 | 16°10 | 27°33 | 29°27 | 11°50 | 4°23 | 22°29 | 12°13 | 14°26 | 9°R 9 | 8°36 | 15°49 | 13°52 |
| T 9 | 13 30 59 | 24°30'42 | 29°19 | 15°35 | 28°46 | 0II 7 | 11°45 | 4°20 | 22°32 | 12°13 | 14°27 | 9° 8 | 8°33 | 15°56 | 13°56 |
| F 10 | 13 34 55 | 25°28'58 | 13B 8 | 15° 3 | 29°59 | 0°46 | 11°41 | 4°17 | 22°35 | 12°13 | 14°28 | 9° 7 | 8°30 | 16° 3 | 14° 0 |
| S 11 | 13 38 52 | 26°27'11 | 26°36 | 14°34 | 1Y12 | 1°26 | 11°38 | 4°14 | 22°39 | 12°12 | 14°30 | 9° 5 | 8°26 | 16° 9 | 14° 4 |
| S 12 | 13 42 49 | 27°25'23 | 9II44 | 14°10 | 2°25 | 2° 5 | 11°34 | 4°11 | 22°42 | 12°12 | 14°31 | 9° 2 | 8°23 | 16°16 | 14° 8 |
| M13 | 13 46 45 | 28°23'33 | 22°30 | 13°50 | 3°38 | 2°45 | 11°30 | 4° 8 | 22°45 | 12°12 | 14°33 | 8°59 | 8°20 | 16°23 | 14°12 |
| T 14 | 13 50 42 | 29°21'41 | 4B58 | 13°34 | 4°51 | 3°25 | 11°27 | 4° 5 | 22°48 | 12°12 | 14°34 | 8°57 | 8°17 | 16°29 | 14°17 |
| W15 | 13 54 38 | 0B19'47 | 17°10 | 13°23 | 6° 4 | 4° 4 | 11°24 | 4° 2 | 22°52 | 12°12 | 14°35 | 8°56 | 8°14 | 16°36 | 14°21 |
| T 16 | 13 58 35 | 1°17'51 | 29°11 | 13°16 | 7°17 | 4°44 | 11°21 | 3°58 | 22°55 | 12°12 | 14°37 | 8°D55 | 8°11 | 16°43 | 14°25 |
| F 17 | 14 2 31 | 2°15'52 | 11B 4 | 13°D14 | 8°30 | 5°23 | 11°18 | 3°55 | 22°58 | 12°D12 | 14°38 | 8°55 | 8° 7 | 16°49 | 14°29 |
| S 18 | 14 6 28 | 3°13'52 | 22°55 | 13°17 | 9°43 | 6° 3 | 11°15 | 3°51 | 23° 2 | 12°12 | 14°39 | 8°56 | 8° 4 | 16°56 | 14°34 |
| S 19 | 14 10 24 | 4°11'50 | 4M49 | 13°25 | 10°56 | 6°42 | 11°13 | 3°48 | 23° 5 | 12°12 | 14°41 | 8°58 | 8° 1 | 17° 3 | 14°38 |
| M20 | 14 14 21 | 5° 9'46 | 16°50 | 13°37 | 12° 9 | 7°21 | 11°11 | 3°44 | 23° 8 | 12°12 | 14°42 | 9° 0 | 7°58 | 17°10 | 14°42 |
| T 21 | 14 18 18 | 6° 7'41 | 29° 1 | 13°54 | 13°22 | 8° 1 | 11° 8 | 3°41 | 23°12 | 12°12 | 14°43 | 9° 1 | 7°55 | 17°16 | 14°46 |
| W22 | 14 22 14 | 7° 5'33 | 11B27 | 14°15 | 14°35 | 8°40 | 11° 7 | 3°37 | 23°15 | 12°12 | 14°45 | 9°R 1 | 7°52 | 17°23 | 14°51 |
| T 23 | 14 26 11 | 8° 3'24 | 24° 9 | 14°41 | 15°48 | 9°19 | 11° 5 | 3°33 | 23°19 | 12°12 | 14°46 | 9° 0 | 7°48 | 17°30 | 14°55 |
| F 24 | 14 30 7 | 9° 1'14 | 7M 9 | 15°10 | 17° 1 | 9°59 | 11° 3 | 3°30 | 23°22 | 12°13 | 14°47 | 8°58 | 7°45 | 17°36 | 14°59 |
| S 25 | 14 34 4 | 9°59'01 | 20°26 | 15°44 | 18°14 | 10°38 | 11° 2 | 3°26 | 23°25 | 12°13 | 14°49 | 8°54 | 7°42 | 17°43 | 15° 4 |
| S 26 | 14 38 0 | 10°56'48 | 3X59 | 16°22 | 19°27 | 11°17 | 11° 1 | 3°22 | 23°29 | 12°13 | 14°50 | 8°50 | 7°39 | 17°50 | 15° 8 |
| M27 | 14 41 57 | 11°54'33 | 17°46 | 17° 4 | 20°40 | 11°56 | 11° 0 | 3°18 | 23°32 | 12°13 | 14°51 | 8°45 | 7°36 | 17°56 | 15°12 |
| T 28 | 14 45 53 | 12°52'17 | 1Z43 | 17°49 | 21°53 | 12°36 | 10°59 | 3°14 | 23°36 | 12°14 | 14°52 | 8°40 | 7°32 | 18° 3 | 15°17 |
| W29 | 14 49 50 | 13°49'59 | 15°49 | 18°38 | 23° 6 | 13°15 | 10°58 | 3°10 | 23°39 | 12°14 | 14°54 | 8°36 | 7°29 | 18°10 | 15°21 |
| T 30 | 14 53 47 | 14B47'41 | 29Z58 | 19Y30 | 24Y19 | 13II54 | 10M58 | 3X 6 | 23B43 | 12R14 | 14Y55 | 8B34 | 7B26 | 18R16 | 15B25 |

Delta T = 17m49s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 1103

MAY 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|------|-------|-------|
| F 1 | 14 57 43 | 15♌45'21 | 14♋10 | 20♊26 | 25♉33 | 14♈33 | 10°R57 | 3°R 2 | 23♄46 | 12♃15 | 14♂56 | 8♁33 | 7♎23 | 18♏23 | 15♌30 |
| S 2 | 15 1 40 | 16°43'01 | 28°21 | 21°25 | 26°46 | 15°12 | 10°D57 | 2♊58 | 23°50 | 12°15 | 14°57 | 8°33 | 7°20 | 18°30 | 15°34 |
| S 3 | 15 5 36 | 17°40'39 | 12♌30 | 22°27 | 27°59 | 15°51 | 10♉57 | 2°54 | 23°53 | 12°16 | 14°59 | 8°34 | 7°17 | 18°37 | 15°38 |
| M 4 | 15 9 33 | 18°38'16 | 26°35 | 23°32 | 29°12 | 16°30 | 10°57 | 2°49 | 23°57 | 12°16 | 15° 0 | 8°36 | 7°13 | 18°43 | 15°43 |
| T 5 | 15 13 29 | 19°35'53 | 10♊35 | 24°40 | 0♄25 | 17° 9 | 10°58 | 2°45 | 24° 0 | 12°17 | 15° 1 | 8°R36 | 7°10 | 18°50 | 15°47 |
| W 6 | 15 17 26 | 20°33'28 | 24°27 | 25°51 | 1°38 | 17°48 | 10°58 | 2°41 | 24° 4 | 12°18 | 15° 2 | 8°35 | 7° 7 | 18°57 | 15°51 |
| T 7 | 15 21 22 | 21°31'02 | 8♄ 8 | 27° 5 | 2°51 | 18°27 | 10°59 | 2°37 | 24° 7 | 12°18 | 15° 3 | 8°32 | 7° 4 | 19° 3 | 15°56 |
| F 8 | 15 25 19 | 22°28'35 | 21°37 | 28°21 | 4° 4 | 19° 6 | 11° 0 | 2°32 | 24°11 | 12°19 | 15° 4 | 8°27 | 7° 1 | 19°10 | 16° 0 |
| S 9 | 15 29 15 | 23°26'07 | 4♈51 | 29°41 | 5°18 | 19°45 | 11° 1 | 2°28 | 24°14 | 12°19 | 15° 6 | 8°20 | 6°58 | 19°17 | 16° 4 |
| S 10 | 15 33 12 | 24°23'38 | 17°49 | ♃ 2 | 6°31 | 20°24 | 11° 3 | 2°24 | 24°18 | 12°20 | 15° 7 | 8°12 | 6°54 | 19°23 | 16° 9 |
| M11 | 15 37 9 | 25°21'08 | 0♄30 | 2°27 | 7°44 | 21° 3 | 11° 4 | 2°19 | 24°21 | 12°21 | 15° 8 | 8° 4 | 6°51 | 19°30 | 16°13 |
| T12 | 15 41 5 | 26°18'36 | 12°55 | 3°54 | 8°57 | 21°42 | 11° 6 | 2°15 | 24°25 | 12°22 | 15° 9 | 7°57 | 6°48 | 19°37 | 16°17 |
| W13 | 15 45 2 | 27°16'04 | 25° 5 | 5°24 | 10°10 | 22°21 | 11° 8 | 2°10 | 24°28 | 12°23 | 15°10 | 7°50 | 6°45 | 19°43 | 16°22 |
| T14 | 15 48 58 | 28°13'30 | 7♎ 5 | 6°56 | 11°23 | 23° 0 | 11°10 | 2° 6 | 24°32 | 12°23 | 15°11 | 7°46 | 6°42 | 19°50 | 16°26 |
| F15 | 15 52 55 | 29°10'54 | 18°58 | 8°31 | 12°37 | 23°39 | 11°12 | 2° 2 | 24°35 | 12°24 | 15°12 | 7°44 | 6°38 | 19°57 | 16°30 |
| S16 | 15 56 51 | 0♈ 8'18 | 0♉49 | 10° 9 | 13°50 | 24°18 | 11°14 | 1°57 | 24°39 | 12°25 | 15°13 | 7°D43 | 6°35 | 20° 3 | 16°35 |
| S17 | 16 0 48 | 1° 5'40 | 12°42 | 11°49 | 15° 3 | 24°56 | 11°17 | 1°53 | 24°43 | 12°26 | 15°14 | 7°44 | 6°32 | 20°10 | 16°39 |
| M18 | 16 4 44 | 2° 3'01 | 24°44 | 13°31 | 16°16 | 25°35 | 11°20 | 1°48 | 24°46 | 12°27 | 15°15 | 7°45 | 6°29 | 20°17 | 16°43 |
| T19 | 16 8 41 | 3° 0'21 | 6♁58 | 15°16 | 17°29 | 26°14 | 11°22 | 1°44 | 24°50 | 12°28 | 15°16 | 7°R45 | 6°26 | 20°24 | 16°47 |
| W20 | 16 12 38 | 3°57'40 | 19°29 | 17° 4 | 18°43 | 26°53 | 11°26 | 1°39 | 24°53 | 12°29 | 15°17 | 7°45 | 6°23 | 20°30 | 16°51 |
| T21 | 16 16 34 | 4°54'58 | 2♈12 | 18°54 | 19°56 | 27°32 | 11°29 | 1°35 | 24°56 | 12°30 | 15°18 | 7°42 | 6°19 | 20°37 | 16°56 |
| F22 | 16 20 31 | 5°52'15 | 15°36 | 20°46 | 21° 9 | 28°10 | 11°32 | 1°31 | 25° 0 | 12°31 | 15°19 | 7°37 | 6°16 | 20°44 | 17° 0 |
| S23 | 16 24 27 | 6°49'31 | 29°13 | 22°41 | 22°22 | 28°49 | 11°36 | 1°26 | 25° 3 | 12°32 | 15°20 | 7°30 | 6°13 | 20°50 | 17° 4 |
| S24 | 16 28 24 | 7°46'47 | 13♌11 | 24°38 | 23°36 | 29°28 | 11°39 | 1°22 | 25° 7 | 12°33 | 15°21 | 7°21 | 6°10 | 20°57 | 17° 8 |
| M25 | 16 32 20 | 8°44'02 | 27°25 | 26°38 | 24°49 | 0♄ 6 | 11°43 | 1°17 | 25°10 | 12°35 | 15°22 | 7°12 | 6° 7 | 21° 4 | 17°12 |
| T26 | 16 36 17 | 9°41'16 | 11♄50 | 28°39 | 26° 2 | 0°45 | 11°47 | 1°13 | 25°14 | 12°36 | 15°23 | 7° 3 | 6° 4 | 21°10 | 17°16 |
| W27 | 16 40 14 | 10°38'30 | 26°19 | 0♈42 | 27°15 | 1°24 | 11°52 | 1° 9 | 25°17 | 12°37 | 15°24 | 6°55 | 6° 0 | 21°17 | 17°21 |
| T28 | 16 44 10 | 11°35'44 | 10♁47 | 2°48 | 28°29 | 2° 2 | 11°56 | 1° 4 | 25°21 | 12°38 | 15°25 | 6°49 | 5°57 | 21°24 | 17°25 |
| F29 | 16 48 7 | 12°32'57 | 25° 8 | 4°54 | 29°42 | 2°41 | 12° 0 | 1° 0 | 25°24 | 12°40 | 15°26 | 6°46 | 5°54 | 21°30 | 17°29 |
| S30 | 16 52 3 | 13°30'10 | 9♌21 | 7° 3 | 0♈55 | 3°19 | 12° 5 | 0°56 | 25°27 | 12°41 | 15°26 | 6°D45 | 5°51 | 21°37 | 17°33 |
| S31 | 16 56 0 | 14♈27'23 | 23♌23 | 9♈12 | 2♈ 9 | 3♄58 | 12♈10 | 0♁52 | 25♄31 | 12♃42 | 15♂27 | 6♁45 | 5♎48 | 21♏44 | 17♌37 |

Delta T = 17m49s

Julian Calendar 1 May 1103 == Greg. Calendar 8 May 1103

JUNE 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|-----|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| M 1 | 16 59 56 | 15♈24'35 | 7♊13 | 11♈22 | 3♈22 | 4♄36 | 12♈15 | 0°R47 | 25♄34 | 12♃44 | 15♂28 | 6°R45 | 5♎44 | 21♏50 | 17♌41 |
| T 2 | 17 3 53 | 16°21'48 | 20°53 | 13°33 | 4°35 | 5°15 | 12°20 | 0♁43 | 25°38 | 12°45 | 15°29 | 6♁44 | 5°41 | 21°57 | 17°45 |
| W 3 | 17 7 49 | 17°19'00 | 4♄21 | 15°45 | 5°49 | 5°53 | 12°25 | 0°39 | 25°41 | 12°46 | 15°30 | 6°42 | 5°38 | 22° 4 | 17°49 |
| T 4 | 17 11 46 | 18°16'12 | 17°39 | 17°56 | 7° 2 | 6°32 | 12°31 | 0°35 | 25°44 | 12°48 | 15°30 | 6°36 | 5°35 | 22°10 | 17°53 |
| F 5 | 17 15 42 | 19°13'25 | 0♈45 | 20° 7 | 8°16 | 7°11 | 12°36 | 0°31 | 25°48 | 12°49 | 15°31 | 6°28 | 5°32 | 22°17 | 17°56 |
| S 6 | 17 19 39 | 20°10'37 | 13°40 | 22°18 | 9°29 | 7°49 | 12°42 | 0°27 | 25°51 | 12°51 | 15°32 | 6°18 | 5°29 | 22°24 | 18° 0 |
| S 7 | 17 23 36 | 21° 7'48 | 26°22 | 24°28 | 10°42 | 8°28 | 12°48 | 0°23 | 25°54 | 12°52 | 15°32 | 6° 5 | 5°25 | 22°31 | 18° 4 |
| M 8 | 17 27 32 | 22° 5'00 | 8♄51 | 26°37 | 11°56 | 9° 6 | 12°54 | 0°19 | 25°57 | 12°54 | 15°33 | 5°53 | 5°22 | 22°37 | 18° 8 |
| T 9 | 17 31 29 | 23° 2'11 | 21° 8 | 28°46 | 13° 9 | 9°44 | 13° 0 | 0°15 | 26° 1 | 12°55 | 15°34 | 5°41 | 5°19 | 22°44 | 18°12 |
| W10 | 17 35 25 | 23°59'22 | 3♈14 | 0♄52 | 14°23 | 10°23 | 13° 6 | 0°11 | 26° 4 | 12°57 | 15°34 | 5°30 | 5°16 | 22°51 | 18°16 |
| T11 | 17 39 22 | 24°56'33 | 15°10 | 2°58 | 15°36 | 11° 1 | 13°13 | 0° 7 | 26° 7 | 12°59 | 15°35 | 5°22 | 5°13 | 22°57 | 18°19 |
| F12 | 17 43 18 | 25°53'43 | 27° 1 | 5° 1 | 16°50 | 11°40 | 13°19 | 0° 4 | 26°10 | 13° 0 | 15°36 | 5°17 | 5°10 | 23° 4 | 18°23 |
| S13 | 17 47 15 | 26°50'53 | 8♈50 | 7° 3 | 18° 3 | 12°18 | 13°26 | 0° 0 | 26°13 | 13° 2 | 15°36 | 5°14 | 5° 6 | 23°11 | 18°27 |
| S14 | 17 51 12 | 27°48'03 | 20°41 | 9° 4 | 19°17 | 12°57 | 13°33 | 29♈56 | 26°16 | 13° 3 | 15°37 | 5°13 | 5° 3 | 23°17 | 18°30 |
| M15 | 17 55 8 | 28°45'12 | 2♁41 | 11° 2 | 20°30 | 13°35 | 13°40 | 29°53 | 26°20 | 13° 5 | 15°37 | 5°13 | 5° 0 | 23°24 | 18°34 |
| T16 | 17 59 5 | 29°42'21 | 14°55 | 12°58 | 21°44 | 14°13 | 13°47 | 29°49 | 26°23 | 13° 7 | 15°38 | 5°13 | 4°57 | 23°31 | 18°37 |
| W17 | 18 3 1 | 0♄39'30 | 27°27 | 14°53 | 22°58 | 14°52 | 13°54 | 29°45 | 26°26 | 13° 9 | 15°38 | 5°11 | 4°54 | 23°37 | 18°41 |
| T18 | 18 6 58 | 1°36'39 | 10♈22 | 16°46 | 24°11 | 15°30 | 14° 1 | 29°42 | 26°29 | 13°10 | 15°39 | 5° 8 | 4°50 | 23°44 | 18°44 |
| F19 | 18 10 54 | 2°33'48 | 23°44 | 18°37 | 25°25 | 16° 8 | 14° 9 | 29°39 | 26°32 | 13°12 | 15°39 | 5° 2 | 4°47 | 23°51 | 18°48 |
| S20 | 18 14 51 | 3°30'57 | 7♌33 | 20°25 | 26°38 | 16°47 | 14°17 | 29°35 | 26°35 | 13°14 | 15°40 | 4°54 | 4°44 | 23°57 | 18°51 |
| S21 | 18 18 47 | 4°28'06 | 21°47 | 22°12 | 27°52 | 17°25 | 14°24 | 29°32 | 26°38 | 13°16 | 15°40 | 4°43 | 4°41 | 24° 4 | 18°55 |
| M22 | 18 22 44 | 5°25'15 | 6♄22 | 23°57 | 29° 6 | 18° 3 | 14°32 | 29°29 | 26°41 | 13°18 | 15°40 | 4°32 | 4°38 | 24°11 | 18°58 |
| T23 | 18 26 41 | 6°22'25 | 21°11 | 25°40 | 0♄19 | 18°42 | 14°40 | 29°26 | 26°44 | 13°19 | 15°41 | 4°21 | 4°35 | 24°17 | 19° 1 |
| W24 | 18 30 37 | 7°19'35 | 6♁ 5 | 27°21 | 1°33 | 19°20 | 14°48 | 29°23 | 26°46 | 13°21 | 15°41 | 4°12 | 4°31 | 24°24 | 19° 5 |
| T25 | 18 34 34 | 8°16'45 | 20°55 | 28°59 | 2°47 | 19°58 | 14°56 | 29°20 | 26°49 | 13°23 | 15°42 | 4° 5 | 4°28 | 24°31 | 19° 8 |
| F26 | 18 38 30 | 9°13'56 | 5♌34 | 0♈36 | 4° 0 | 20°36 | 15° 5 | 29°17 | 26°52 | 13°25 | 15°42 | 4° 1 | 4°25 | 24°37 | 19°11 |
| S27 | 18 42 27 | 10°11'07 | 19°57 | 2°11 | 5°14 | 21°15 | 15°13 | 29°14 | 26°55 | 13°27 | 15°42 | 3°59 | 4°22 | 24°44 | 19°14 |
| S28 | 18 46 23 | 11° 8'19 | 4♊ 3 | 3°44 | 6°28 | 21°53 | 15°22 | 29°12 | 26°58 | 13°29 | 15°42 | 3°59 | 4°19 | 24°51 | 19°17 |
| M29 | 18 50 20 | 12° 5'32 | 17°50 | 5°15 | 7°42 | 22°31 | 15°30 | 29° 9 | 27° 0 | 13°31 | 15°43 | 3°58 | 4°15 | 24°57 | 19°20 |
| T30 | 18 54 16 | 13♄ 2'46 | 1♄20 | 6♈44 | 8♄55 | 23♄ 9 | 15♈39 | 29♈ 6 | 27♄ 3 | 13♃33 | 15♂43 | 3♁58 | 4♎12 | 25♏ 4 | 19♌23 |

Delta T = 17m48s

Julian Calendar

created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 1103

JULY 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|------|-------|-------|---|
| W 1 | 18 58 13 | 14☾ 0'01 | 14♃34 | 8♁11 | 10♄ 9 | 23♁48 | 15♁48 | 29°R 4 | 27♃ 6 | 13♁35 | 15°Y43 | 3°R55 | 4♁ 9 | 25♁11 | 19♃26 | |
| T 2 | 19 2 10 | 14°57'16 | 27°34 | 9°36 | 11°23 | 24°26 | 15°57 | 29♁ 1 | 27° 8 | 13°37 | 15°43 | 3♁49 | 4° 6 | 25°18 | 19°29 | |
| F 3 | 19 6 6 | 15°54'32 | 10♁21 | 10°59 | 12°37 | 25° 4 | 16° 6 | 28°59 | 27°11 | 13°39 | 15°43 | 3°41 | 4° 3 | 25°24 | 19°32 | |
| S 4 | 19 10 3 | 16°51'50 | 22°58 | 12°20 | 13°51 | 25°42 | 16°15 | 28°57 | 27°14 | 13°41 | 15°44 | 3°30 | 4° 0 | 25°31 | 19°35 | |
| S 5 | 19 13 59 | 17°49'07 | 5♁23 | 13°38 | 15° 5 | 26°21 | 16°24 | 28°55 | 27°16 | 13°43 | 15°44 | 3°18 | 3°56 | 25°38 | 19°38 | |
| M 6 | 19 17 56 | 18°46'26 | 17°39 | 14°55 | 16°19 | 26°59 | 16°34 | 28°53 | 27°19 | 13°45 | 15°44 | 3° 5 | 3°53 | 25°44 | 19°40 | |
| T 7 | 19 21 52 | 19°43'45 | 29°45 | 16° 9 | 17°32 | 27°37 | 16°43 | 28°51 | 27°21 | 13°47 | 15°44 | 2°53 | 3°50 | 25°51 | 19°43 | |
| W 8 | 19 25 49 | 20°41'05 | 11♁44 | 17°21 | 18°46 | 28°15 | 16°53 | 28°49 | 27°23 | 13°49 | 15°44 | 2°42 | 3°47 | 25°58 | 19°46 | |
| T 9 | 19 29 45 | 21°38'26 | 23°36 | 18°30 | 20° 0 | 28°54 | 17° 2 | 28°47 | 27°26 | 13°51 | 15°44 | 2°33 | 3°44 | 26° 4 | 19°48 | |
| F 10 | 19 33 42 | 22°35'47 | 5♁24 | 19°37 | 21°14 | 29°32 | 17°12 | 28°45 | 27°28 | 13°53 | 15°R44 | 2°28 | 3°41 | 26°11 | 19°51 | |
| S 11 | 19 37 39 | 23°33'09 | 17°11 | 20°42 | 22°28 | 0♁10 | 17°22 | 28°43 | 27°31 | 13°55 | 15°44 | 2°24 | 3°37 | 26°18 | 19°53 | |
| S 12 | 19 41 35 | 24°30'32 | 29° 2 | 21°43 | 23°42 | 0°48 | 17°32 | 28°42 | 27°33 | 13°57 | 15°44 | 2°D23 | 3°34 | 26°24 | 19°56 | |
| M13 | 19 45 32 | 25°27'55 | 11♁ 0 | 22°42 | 24°56 | 1°26 | 17°42 | 28°40 | 27°35 | 14° 0 | 15°44 | 2°23 | 3°31 | 26°31 | 19°58 | |
| T 14 | 19 49 28 | 26°25'19 | 23°12 | 23°38 | 26°10 | 2° 5 | 17°52 | 28°39 | 27°37 | 14° 2 | 15°44 | 2°R24 | 3°28 | 26°38 | 20° 1 | |
| W15 | 19 53 25 | 27°22'44 | 5♁24 | 24°31 | 27°24 | 2°43 | 18° 2 | 28°38 | 27°39 | 14° 4 | 15°44 | 2°23 | 3°25 | 26°44 | 20° 3 | |
| T 16 | 19 57 21 | 28°20'09 | 18°55 | 25°21 | 28°38 | 3°21 | 18°13 | 28°37 | 27°42 | 14° 6 | 15°44 | 2°22 | 3°21 | 26°51 | 20° 5 | |
| F 17 | 20 1 18 | 29°17'36 | 1♃55 | 26° 8 | 29°52 | 3°59 | 18°23 | 28°36 | 27°44 | 14° 8 | 15°44 | 2°18 | 3°18 | 26°58 | 20° 7 | |
| S 18 | 20 5 14 | 0♁15'03 | 15°45 | 26°51 | 1♁ 7 | 4°37 | 18°33 | 28°35 | 27°46 | 14°10 | 15°43 | 2°11 | 3°15 | 27° 4 | 20° 9 | |
| S 19 | 20 9 11 | 1°12'31 | 0♃ 3 | 27°30 | 2°21 | 5°15 | 18°44 | 28°34 | 27°48 | 14°12 | 15°43 | 2° 4 | 3°12 | 27°11 | 20°11 | |
| M20 | 20 13 8 | 2° 9'59 | 14°47 | 28° 6 | 3°35 | 5°54 | 18°55 | 28°33 | 27°50 | 14°15 | 15°43 | 1°55 | 3° 9 | 27°18 | 20°14 | |
| T 21 | 20 17 4 | 3° 7'29 | 29°48 | 28°37 | 4°49 | 6°32 | 19° 5 | 28°32 | 27°52 | 14°17 | 15°43 | 1°46 | 3° 6 | 27°24 | 20°15 | |
| W22 | 20 21 1 | 4° 5'00 | 14♁59 | 29° 5 | 6° 3 | 7°10 | 19°16 | 28°31 | 27°53 | 14°19 | 15°43 | 1°38 | 3° 2 | 27°31 | 20°17 | |
| T 23 | 20 24 57 | 5° 2'33 | 0♃ 7 | 29°28 | 7°17 | 7°48 | 19°27 | 28°31 | 27°55 | 14°21 | 15°42 | 1°33 | 2°59 | 27°38 | 20°19 | |
| F 24 | 20 28 54 | 6° 0'06 | 15° 5 | 29°46 | 8°31 | 8°26 | 19°38 | 28°30 | 27°57 | 14°23 | 15°42 | 1°30 | 2°56 | 27°44 | 20°21 | |
| S 25 | 20 32 50 | 6°57'41 | 29°45 | 29°59 | 9°45 | 9° 4 | 19°49 | 28°30 | 27°59 | 14°26 | 15°42 | 1°D29 | 2°53 | 27°51 | 20°23 | |
| S 26 | 20 36 47 | 7°55'18 | 14°Y 2 | 0♁ 7 | 11° 0 | 9°43 | 20° 0 | 28°30 | 28° 0 | 14°28 | 15°42 | 1°29 | 2°50 | 27°58 | 20°24 | |
| M27 | 20 40 43 | 8°52'56 | 27°56 | 0°R10 | 12°14 | 10°21 | 20°11 | 28°30 | 28° 2 | 14°30 | 15°41 | 1°30 | 2°47 | 28° 4 | 20°26 | |
| T 28 | 20 44 40 | 9°50'36 | 11♃26 | 0° 7 | 13°28 | 10°59 | 20°22 | 28°D30 | 28° 4 | 14°32 | 15°41 | 1°R30 | 2°43 | 28°11 | 20°28 | |
| W29 | 20 48 37 | 10°48'17 | 24°36 | 29♁59 | 14°42 | 11°37 | 20°33 | 28°30 | 28° 5 | 14°35 | 15°40 | 1°29 | 2°40 | 28°18 | 20°29 | |
| T 30 | 20 52 33 | 11°46'00 | 7♁27 | 29°46 | 15°57 | 12°15 | 20°45 | 28°30 | 28° 7 | 14°37 | 15°40 | 1°26 | 2°37 | 28°24 | 20°31 | |
| F 31 | 20 56 30 | 12♁43'45 | 20♁ 2 | 29♁26 | 17♁11 | 12♁53 | 20♁56 | 28♁30 | 28♁ 8 | 14♁39 | 15°Y40 | 1♁21 | 2♁34 | 28♁31 | 20♁32 | |

Delta T = 17m48s Julian Calendar 1 July 1103 == Greg. Calendar 8 July 1103

AUGUST 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|-------|--------|-------|------|-------|--------|---|
| S 1 | 21 0 26 | 13♁41'31 | 2☾25 | 29°R 1 | 18♁25 | 13♁32 | 21♁ 8 | 28♁30 | 28♁10 | 14♁41 | 15°R39 | 1°R15 | 2♁31 | 28♁38 | 20♁33 | |
| S 2 | 21 4 23 | 14°39'20 | 14°38 | 28♁30 | 19°39 | 14°10 | 21°19 | 28°31 | 28°11 | 14°43 | 15°Y39 | 1♁ 6 | 2°27 | 28°44 | 20°34 | |
| M 3 | 21 8 19 | 15°37'09 | 26°42 | 27°54 | 20°54 | 14°48 | 21°31 | 28°31 | 28°12 | 14°46 | 15°38 | 0°58 | 2°24 | 28°51 | 20°36 | |
| T 4 | 21 12 16 | 16°35'01 | 8♁39 | 27°14 | 22° 8 | 15°26 | 21°42 | 28°32 | 28°14 | 14°48 | 15°38 | 0°50 | 2°21 | 28°58 | 20°37 | |
| W 5 | 21 16 12 | 17°32'53 | 20°31 | 26°28 | 23°22 | 16° 4 | 21°54 | 28°33 | 28°15 | 14°50 | 15°37 | 0°42 | 2°18 | 29° 4 | 20°38 | |
| T 6 | 21 20 9 | 18°30'48 | 2♁20 | 25°39 | 24°37 | 16°43 | 22° 6 | 28°34 | 28°16 | 14°52 | 15°37 | 0°37 | 2°15 | 29°11 | 20°39 | |
| F 7 | 21 24 6 | 19°28'43 | 14° 7 | 24°47 | 25°51 | 17°21 | 22°18 | 28°35 | 28°17 | 14°55 | 15°36 | 0°34 | 2°12 | 29°18 | 20°40 | |
| S 8 | 21 28 2 | 20°26'41 | 25°56 | 23°53 | 27° 5 | 17°59 | 22°30 | 28°36 | 28°18 | 14°57 | 15°36 | 0°D32 | 2° 8 | 29°24 | 20°41 | |
| S 9 | 21 31 59 | 21°24'39 | 7♁49 | 22°58 | 28°20 | 18°37 | 22°41 | 28°37 | 28°19 | 14°59 | 15°35 | 0°32 | 2° 5 | 29°31 | 20°41 | |
| M10 | 21 35 55 | 22°22'40 | 19°50 | 22° 2 | 29°34 | 19°15 | 22°53 | 28°38 | 28°20 | 15° 1 | 15°34 | 0°33 | 2° 2 | 29°38 | 20°42 | |
| T 11 | 21 39 52 | 23°20'41 | 2♁ 2 | 21° 8 | 0♁49 | 19°54 | 23° 5 | 28°39 | 28°21 | 15° 3 | 15°34 | 0°35 | 1°59 | 29°44 | 20°43 | |
| W12 | 21 43 48 | 24°18'44 | 14°32 | 20°16 | 2° 3 | 20°32 | 23°18 | 28°41 | 28°22 | 15° 6 | 15°33 | 0°36 | 1°56 | 29°51 | 20°44 | |
| T 13 | 21 47 45 | 25°16'49 | 27°22 | 19°28 | 3°17 | 21°10 | 23°30 | 28°42 | 28°23 | 15° 8 | 15°32 | 0°R37 | 1°53 | 29°58 | 20°44 | |
| F 14 | 21 51 41 | 26°14'55 | 10♁37 | 18°44 | 4°32 | 21°48 | 23°42 | 28°44 | 28°24 | 15°10 | 15°32 | 0°36 | 1°49 | 0♁ 4 | 20°45 | |
| S 15 | 21 55 38 | 27°13'02 | 24°19 | 18° 6 | 5°46 | 22°27 | 23°54 | 28°45 | 28°25 | 15°12 | 15°31 | 0°33 | 1°46 | 0°11 | 20°45 | |
| S 16 | 21 59 35 | 28°11'11 | 8♁30 | 17°34 | 7° 1 | 23° 5 | 24° 6 | 28°47 | 28°25 | 15°14 | 15°30 | 0°30 | 1°43 | 0°18 | 20°45 | |
| M17 | 22 3 31 | 29° 9'22 | 23° 7 | 17°10 | 8°15 | 23°43 | 24°19 | 28°49 | 28°26 | 15°17 | 15°30 | 0°26 | 1°40 | 0°24 | 20°46 | |
| T 18 | 22 7 28 | 0♁ 7'34 | 8♁ 5 | 16°54 | 9°29 | 24°21 | 24°31 | 28°51 | 28°26 | 15°19 | 15°29 | 0°21 | 1°37 | 0°31 | 20°46 | |
| W19 | 22 11 24 | 1° 5'48 | 23°17 | 16°D46 | 10°44 | 25° 0 | 24°43 | 28°53 | 28°27 | 15°21 | 15°28 | 0°17 | 1°33 | 0°38 | 20°46 | |
| T 20 | 22 15 21 | 2° 4'03 | 8♁33 | 16°48 | 11°58 | 25°38 | 24°56 | 28°55 | 28°28 | 15°23 | 15°27 | 0°15 | 1°30 | 0°44 | 20°46 | |
| F 21 | 22 19 17 | 3° 2'20 | 23°41 | 16°58 | 13°13 | 26°16 | 25° 8 | 28°57 | 28°28 | 15°25 | 15°27 | 0°D14 | 1°27 | 0°51 | 20°R46 | |
| S 22 | 22 23 14 | 4° 0'40 | 8°Y34 | 17°17 | 14°27 | 26°54 | 25°21 | 29° 0 | 28°28 | 15°27 | 15°26 | 0°14 | 1°24 | 0°58 | 20°46 | |
| S 23 | 22 27 10 | 4°59'01 | 23° 5 | 17°45 | 15°42 | 27°33 | 25°33 | 29° 2 | 28°29 | 15°30 | 15°25 | 0°15 | 1°21 | 1° 4 | 20°46 | |
| M24 | 22 31 7 | 5°57'24 | 7♁10 | 18°22 | 16°56 | 28°11 | 25°46 | 29° 5 | 28°29 | 15°32 | 15°24 | 0°16 | 1°18 | 1°11 | 20°46 | |
| T 25 | 22 35 3 | 6°55'50 | 20°49 | 19° 7 | 18°11 | 28°49 | 25°58 | 29° 7 | 28°29 | 15°34 | 15°23 | 0°17 | 1°14 | 1°18 | 20°46 | |
| W26 | 22 39 0 | 7°54'18 | 4♁ 2 | 20° 0 | 19°25 | 29°27 | 26°11 | 29°10 | 28°29 | 15°36 | 15°22 | 0°R18 | 1°11 | 1°24 | 20°45 | |
| T 27 | 22 42 57 | 8°52'48 | 16°53 | 21° 1 | 20°40 | 0♁ 6 | 26°24 | 29°13 | 28°30 | 15°38 | 15°22 | 0°18 | 1° 8 | 1°31 | 20°45 | |
| F 28 | 22 46 53 | 9°51'21 | 29°25 | 22° 8 | 21°54 | 0°44 | 26°36 | 29°16 | 28°30 | 15°40 | 15°21 | 0°17 | 1° 5 | 1°38 | 20°45 | |
| S 29 | 22 50 50 | 10°49'55 | 11♁41 | 23°22 | 23° 9 | 1°22 | 26°49 | 29°19 | 28°R30 | 15°42 | 15°20 | 0°15 | 1° 2 | 1°44 | 20°44 | |
| S 30 | 22 54 46 | 11°48'32 | 23°46 | 24°42 | 24°23 | 2° 1 | 27° 2 | 29°22 | 28°30 | 15°44 | 15°19 | 0°12 | 0°58 | 1°51 | 20°44 | |
| M31 | 22 58 43 | 12♁47'11 | 5♁42 | 26♁ 8 | 25♁38 | 2♁39 | 27♁15 | 29♁25 | 28♁30 | 15♁46 | 15°Y18 | 0♁ 9 | 0♁55 | 1♁58 | 20♁43 | |

Delta T = 17m48s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 1103

SEPTEMBER 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|
| T 1 | 23 2 39 | 13 ^h 45'52 | 17 ^h 03'33 | 27 ^h 03'37 | 26 ^h 05'52 | 3 ^h 17'17 | 27 ^h 07'27 | 29 ^h 08'28 | 28 ^h 09'29 | 15 ^h 04'48 | 15 ^h 09'17 | 0 ^h 07'07 | 0 ^h 05'52 | 2 ^h 04'04 | 20 ^h 04'42 |
| W 2 | 23 6 36 | 14 ^h 44'35 | 29 ^h 02'22 | 29 ^h 09'11 | 28 ^h 07'07 | 3 ^h 05'56 | 27 ^h 04'40 | 29 ^h 03'31 | 28 ^h 05'29 | 15 ^h 05'50 | 15 ^h 09'16 | 0 ^h 04'04 | 0 ^h 04'49 | 2 ^h 01'11 | 20 ^h 05'42 |
| T 3 | 23 10 32 | 15 ^h 43'21 | 11 ^h 07'10 | 0 ^h 04'49 | 29 ^h 02'21 | 4 ^h 03'34 | 27 ^h 05'53 | 29 ^h 03'35 | 28 ^h 02'29 | 15 ^h 05'52 | 15 ^h 09'15 | 0 ^h 03'03 | 0 ^h 04'46 | 2 ^h 01'18 | 20 ^h 04'41 |
| F 4 | 23 14 29 | 16 ^h 42'08 | 23 ^h 01'01 | 2 ^h 29'29 | 0 ^h 05'36 | 5 ^h 01'13 | 28 ^h 06'06 | 29 ^h 03'38 | 28 ^h 02'29 | 15 ^h 05'54 | 15 ^h 09'14 | 0 ^h 02'02 | 0 ^h 04'43 | 2 ^h 02'24 | 20 ^h 04'40 |
| S 5 | 23 18 26 | 17 ^h 40'57 | 4 ^h 05'55 | 4 ^h 11'11 | 1 ^h 50'50 | 5 ^h 05'51 | 28 ^h 09'19 | 29 ^h 04'42 | 28 ^h 02'28 | 15 ^h 05'56 | 15 ^h 09'13 | 0 ^h 01'01 | 0 ^h 03'39 | 2 ^h 03'31 | 20 ^h 03'39 |
| S 6 | 23 22 22 | 18 ^h 39'48 | 16 ^h 05'56 | 5 ^h 05'56 | 3 ^h 05'05 | 6 ^h 02'29 | 28 ^h 03'32 | 29 ^h 04'45 | 28 ^h 02'28 | 15 ^h 05'58 | 15 ^h 09'12 | 0 ^h 03'03 | 0 ^h 03'36 | 2 ^h 03'38 | 20 ^h 03'38 |
| M 7 | 23 26 19 | 19 ^h 38'42 | 29 ^h 05'05 | 7 ^h 04'42 | 4 ^h 01'19 | 7 ^h 08'08 | 28 ^h 04'45 | 29 ^h 04'49 | 28 ^h 02'28 | 16 ^h 00'00 | 15 ^h 09'11 | 0 ^h 03'03 | 0 ^h 03'33 | 2 ^h 04'44 | 20 ^h 03'37 |
| T 8 | 23 30 15 | 20 ^h 37'37 | 11 ^h 08'25 | 9 ^h 02'29 | 5 ^h 03'34 | 7 ^h 04'46 | 28 ^h 05'58 | 29 ^h 05'53 | 28 ^h 02'27 | 16 ^h 02'02 | 15 ^h 09'10 | 0 ^h 04'04 | 0 ^h 03'30 | 2 ^h 05'51 | 20 ^h 03'36 |
| W 9 | 23 34 12 | 21 ^h 36'34 | 24 ^h 00'00 | 11 ^h 06'16 | 6 ^h 04'48 | 8 ^h 02'25 | 29 ^h 01'00 | 29 ^h 05'57 | 28 ^h 02'27 | 16 ^h 04'04 | 15 ^h 09'09 | 0 ^h 05'05 | 0 ^h 02'27 | 2 ^h 05'58 | 20 ^h 03'35 |
| T 10 | 23 38 8 | 22 ^h 35'33 | 6 ^h 07'52 | 13 ^h 05'05 | 8 ^h 03'03 | 9 ^h 03'03 | 29 ^h 02'23 | 0 ^h 07'10 | 28 ^h 02'26 | 16 ^h 06'06 | 15 ^h 09'08 | 0 ^h 06'06 | 0 ^h 02'24 | 3 ^h 04'04 | 20 ^h 03'33 |
| F 11 | 23 42 5 | 23 ^h 34'33 | 20 ^h 04'04 | 14 ^h 05'53 | 9 ^h 01'17 | 9 ^h 04'17 | 29 ^h 03'36 | 0 ^h 05'05 | 28 ^h 02'25 | 16 ^h 08'08 | 15 ^h 09'07 | 0 ^h 06'06 | 0 ^h 02'20 | 3 ^h 01'11 | 20 ^h 03'32 |
| S 12 | 23 46 1 | 24 ^h 33'36 | 3 ^h 03'39 | 16 ^h 04'42 | 10 ^h 03'32 | 10 ^h 02'20 | 29 ^h 04'49 | 0 ^h 09'09 | 28 ^h 02'25 | 16 ^h 09'09 | 15 ^h 09'06 | 0 ^h 06'06 | 0 ^h 02'17 | 3 ^h 01'18 | 20 ^h 03'31 |
| S 13 | 23 49 58 | 25 ^h 32'40 | 17 ^h 03'38 | 18 ^h 03'31 | 11 ^h 04'46 | 10 ^h 05'58 | 0 ^h 05'20 | 0 ^h 13'13 | 28 ^h 02'24 | 16 ^h 11'11 | 15 ^h 09'05 | 0 ^h 06'06 | 0 ^h 02'14 | 3 ^h 02'24 | 20 ^h 02'29 |
| M 14 | 23 53 55 | 26 ^h 31'46 | 1 ^h 05'59 | 20 ^h 01'19 | 13 ^h 01'01 | 11 ^h 03'37 | 0 ^h 15'05 | 0 ^h 17'17 | 28 ^h 02'23 | 16 ^h 13'13 | 15 ^h 09'04 | 0 ^h 05'05 | 0 ^h 02'11 | 3 ^h 03'31 | 20 ^h 02'28 |
| T 15 | 23 57 51 | 27 ^h 30'54 | 16 ^h 04'41 | 22 ^h 07'07 | 14 ^h 01'15 | 12 ^h 01'15 | 0 ^h 28'28 | 0 ^h 22'22 | 28 ^h 02'22 | 16 ^h 15'15 | 15 ^h 09'03 | 0 ^h 05'05 | 0 ^h 02'08 | 3 ^h 03'38 | 20 ^h 02'26 |
| W 16 | 0 1 48 | 28 ^h 30'03 | 1 ^h 08'38 | 23 ^h 05'54 | 15 ^h 03'30 | 12 ^h 05'40 | 0 ^h 41'41 | 0 ^h 26'26 | 28 ^h 02'21 | 16 ^h 17'17 | 15 ^h 09'02 | 0 ^h 05'05 | 0 ^h 02'04 | 3 ^h 04'44 | 20 ^h 02'25 |
| T 17 | 0 5 44 | 29 ^h 29'15 | 16 ^h 04'43 | 25 ^h 04'41 | 16 ^h 04'44 | 13 ^h 03'32 | 0 ^h 54'54 | 0 ^h 30'30 | 28 ^h 02'20 | 16 ^h 18'18 | 15 ^h 09'01 | 0 ^h 05'05 | 0 ^h 02'01 | 3 ^h 05'51 | 20 ^h 02'23 |
| F 18 | 0 9 41 | 0 ^h 05'28 | 1 ^h 09'47 | 27 ^h 02'28 | 17 ^h 05'59 | 14 ^h 01'11 | 1 ^h 07'07 | 0 ^h 35'35 | 28 ^h 02'19 | 16 ^h 20'20 | 14 ^h 05'59 | 0 ^h 05'05 | 29 ^h 05'58 | 3 ^h 05'58 | 20 ^h 02'21 |
| S 19 | 0 13 37 | 1 ^h 27'44 | 16 ^h 04'42 | 29 ^h 01'13 | 19 ^h 01'13 | 14 ^h 04'49 | 1 ^h 20'20 | 0 ^h 40'40 | 28 ^h 02'18 | 16 ^h 22'22 | 14 ^h 05'58 | 0 ^h 05'05 | 29 ^h 05'55 | 4 ^h 04'04 | 20 ^h 02'20 |
| S 20 | 0 17 34 | 2 ^h 27'02 | 1 ^h 08'19 | 0 ^h 05'58 | 20 ^h 02'28 | 15 ^h 02'28 | 1 ^h 34'34 | 0 ^h 44'44 | 28 ^h 02'17 | 16 ^h 23'23 | 14 ^h 05'57 | 0 ^h 05'05 | 29 ^h 05'52 | 4 ^h 01'11 | 20 ^h 01'18 |
| M 21 | 0 21 30 | 3 ^h 26'22 | 15 ^h 03'33 | 2 ^h 04'43 | 21 ^h 02'42 | 16 ^h 06'06 | 1 ^h 47'47 | 0 ^h 49'49 | 28 ^h 02'16 | 16 ^h 25'25 | 14 ^h 05'56 | 0 ^h 04'04 | 29 ^h 04'49 | 4 ^h 01'18 | 20 ^h 01'16 |
| T 22 | 0 25 27 | 4 ^h 25'44 | 29 ^h 02'21 | 4 ^h 26'26 | 22 ^h 05'57 | 16 ^h 04'45 | 2 ^h 00'00 | 0 ^h 54'54 | 28 ^h 02'15 | 16 ^h 27'27 | 14 ^h 05'55 | 0 ^h 04'04 | 29 ^h 04'45 | 4 ^h 02'24 | 20 ^h 01'14 |
| W 23 | 0 29 23 | 5 ^h 25'09 | 12 ^h 08'42 | 6 ^h 09'09 | 24 ^h 01'11 | 17 ^h 02'24 | 2 ^h 13'13 | 0 ^h 59'59 | 28 ^h 02'14 | 16 ^h 28'28 | 14 ^h 05'54 | 0 ^h 03'03 | 29 ^h 04'42 | 4 ^h 03'31 | 20 ^h 01'12 |
| T 24 | 0 33 20 | 6 ^h 24'36 | 25 ^h 03'38 | 7 ^h 05'51 | 25 ^h 02'26 | 18 ^h 02'02 | 2 ^h 26'26 | 1 ^h 04'04 | 28 ^h 02'13 | 16 ^h 30'30 | 14 ^h 05'53 | 0 ^h 03'03 | 29 ^h 03'39 | 4 ^h 03'38 | 20 ^h 01'10 |
| F 25 | 0 37 17 | 7 ^h 24'06 | 8 ^h 05'11 | 9 ^h 03'33 | 26 ^h 04'40 | 18 ^h 04'41 | 2 ^h 39'39 | 1 ^h 09'09 | 28 ^h 02'11 | 16 ^h 31'31 | 14 ^h 05'52 | 0 ^h 03'03 | 29 ^h 03'36 | 4 ^h 04'44 | 20 ^h 00'08 |
| S 26 | 0 41 13 | 8 ^h 23'38 | 20 ^h 02'27 | 11 ^h 01'14 | 27 ^h 05'55 | 19 ^h 01'19 | 2 ^h 52'52 | 1 ^h 14'14 | 28 ^h 02'10 | 16 ^h 33'33 | 14 ^h 05'50 | 0 ^h 03'03 | 29 ^h 03'33 | 4 ^h 05'51 | 20 ^h 00'06 |
| S 27 | 0 45 10 | 9 ^h 23'12 | 2 ^h 08'29 | 12 ^h 05'54 | 29 ^h 02'09 | 19 ^h 05'58 | 3 ^h 05'05 | 1 ^h 19'19 | 28 ^h 02'09 | 16 ^h 35'35 | 14 ^h 05'49 | 0 ^h 04'04 | 29 ^h 02'29 | 4 ^h 05'58 | 20 ^h 00'03 |
| M 28 | 0 49 6 | 10 ^h 22'48 | 14 ^h 02'33 | 14 ^h 03'33 | 0 ^h 08'24 | 20 ^h 03'37 | 3 ^h 18'18 | 1 ^h 24'24 | 28 ^h 02'07 | 16 ^h 36'36 | 14 ^h 05'48 | 0 ^h 05'05 | 29 ^h 02'26 | 5 ^h 04'04 | 20 ^h 00'01 |
| T 29 | 0 53 3 | 11 ^h 22'27 | 26 ^h 01'11 | 16 ^h 01'12 | 1 ^h 03'38 | 21 ^h 01'15 | 3 ^h 31'31 | 1 ^h 30'30 | 28 ^h 02'06 | 16 ^h 37'37 | 14 ^h 05'47 | 0 ^h 06'06 | 29 ^h 02'23 | 5 ^h 01'11 | 19 ^h 59'59 |
| W 30 | 0 56 59 | 12 ^h 22'08 | 7 ^h 09'59 | 17 ^h 05'50 | 2 ^h 05'53 | 21 ^h 05'54 | 3 ^h 44'44 | 1 ^h 37'35 | 28 ^h 02'04 | 16 ^h 38'39 | 14 ^h 05'46 | 0 ^h 06'06 | 29 ^h 02'20 | 5 ^h 01'17 | 19 ^h 58'56 |

Delta T = 17m47s Julian Calendar 1 Sept. 1103 == Greg. Calendar 8 Sept. 1103

OCTOBER 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|
| T 1 | 1 0 56 | 13 ^h 01'21 | 19 ^h 07'50 | 19 ^h 05'28 | 4 ^h 08'07 | 22 ^h 07'33 | 3 ^h 05'57 | 1 ^h 07'40 | 28 ^h 03'03 | 16 ^h 04'40 | 14 ^h 04'45 | 0 ^h 05'08 | 29 ^h 07'17 | 5 ^h 07'24 | 19 ^h 05'54 |
| F 2 | 1 4 52 | 14 ^h 01'36 | 1 ^h 04'46 | 21 ^h 05'05 | 5 ^h 02'22 | 23 ^h 01'11 | 4 ^h 09'09 | 1 ^h 46'46 | 28 ^h 02'01 | 16 ^h 04'42 | 14 ^h 04'44 | 0 ^h 06'08 | 29 ^h 07'14 | 5 ^h 03'31 | 19 ^h 05'52 |
| S 3 | 1 8 49 | 15 ^h 01'24 | 13 ^h 05'50 | 22 ^h 04'41 | 6 ^h 03'36 | 23 ^h 05'50 | 4 ^h 22'22 | 1 ^h 51'51 | 27 ^h 05'59 | 16 ^h 04'43 | 14 ^h 04'42 | 0 ^h 07'07 | 29 ^h 07'10 | 5 ^h 03'37 | 19 ^h 04'49 |
| S 4 | 1 12 46 | 16 ^h 01'13 | 26 ^h 03'03 | 24 ^h 01'17 | 7 ^h 05'51 | 24 ^h 02'29 | 4 ^h 35'35 | 1 ^h 57'57 | 27 ^h 05'58 | 16 ^h 04'44 | 14 ^h 04'41 | 0 ^h 06'06 | 29 ^h 07'07 | 5 ^h 04'44 | 19 ^h 04'47 |
| M 5 | 1 16 42 | 17 ^h 01'04 | 8 ^h 08'28 | 25 ^h 05'52 | 9 ^h 05'05 | 25 ^h 08'08 | 4 ^h 48'48 | 2 ^h 03'03 | 27 ^h 05'56 | 16 ^h 04'46 | 14 ^h 04'40 | 0 ^h 04'04 | 29 ^h 07'04 | 5 ^h 05'51 | 19 ^h 04'44 |
| T 6 | 1 20 39 | 18 ^h 00'58 | 21 ^h 05'05 | 27 ^h 02'26 | 10 ^h 02'20 | 25 ^h 04'46 | 5 ^h 01'01 | 2 ^h 08'08 | 27 ^h 05'54 | 16 ^h 04'47 | 14 ^h 04'39 | 0 ^h 01'01 | 29 ^h 07'01 | 5 ^h 05'57 | 19 ^h 04'41 |
| W 7 | 1 24 35 | 19 ^h 00'53 | 3 ^h 07'54 | 29 ^h 00'00 | 11 ^h 03'34 | 26 ^h 02'25 | 5 ^h 14'14 | 2 ^h 14'14 | 27 ^h 05'52 | 16 ^h 04'48 | 14 ^h 04'38 | 29 ^h 05'58 | 28 ^h 05'58 | 6 ^h 04'04 | 19 ^h 03'39 |
| T 8 | 1 28 32 | 20 ^h 00'50 | 16 ^h 05'58 | 0 ^h 08'34 | 12 ^h 04'48 | 27 ^h 04'04 | 5 ^h 27'27 | 2 ^h 20'20 | 27 ^h 05'50 | 16 ^h 04'49 | 14 ^h 04'37 | 29 ^h 05'56 | 28 ^h 05'55 | 6 ^h 01'11 | 19 ^h 03'36 |
| F 9 | 1 32 28 | 21 ^h 00'49 | 0 ^h 03'17 | 2 ^h 07'07 | 14 ^h 03'03 | 27 ^h 04'43 | 5 ^h 40'40 | 2 ^h 26'26 | 27 ^h 04'49 | 16 ^h 04'51 | 14 ^h 04'36 | 29 ^h 05'53 | 28 ^h 05'51 | 6 ^h 01'17 | 19 ^h 03'33 |
| S 10 | 1 36 25 | 22 ^h 00'49 | 13 ^h 05'51 | 3 ^h 04'40 | 15 ^h 01'17 | 28 ^h 02'21 | 5 ^h 52'52 | 2 ^h 32'32 | 27 ^h 04'47 | 16 ^h 04'52 | 14 ^h 04'34 | 29 ^h 05'52 | 28 ^h 04'48 | 6 ^h 02'24 | 19 ^h 03'30 |
| S 11 | 1 40 21 | 23 ^h 00'51 | 27 ^h 04'41 | 5 ^h 01'12 | 16 ^h 03'32 | 29 ^h 02'09 | 6 ^h 05'05 | 2 ^h 38'38 | 27 ^h 04'45 | 16 ^h 04'53 | 14 ^h 04'33 | 29 ^h 05'52 | 28 ^h 04'45 | 6 ^h 03'31 | 19 ^h 02'28 |
| M 12 | 1 44 18 | | | | | | | | | | | | | | |

SWISS EPHEMERIS for the year 1103

NOVEMBER 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|-----------------------|----------------------|---------------------|---------------------|--------------------|---------------------|-------------------|--------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|
| S 1 | 3 3 9 | 14 ^m 28'21 | 4 ^m 49 | 5 ^h 15 | 12 ^h 32 | 12 ^h 38 | 10 ^h 24 | 4 ^h 52 | 26 ^h 58 | 17 ^h 9 | 14 ^h R11 | 29 ^h R23 | 27 ^h 38 | 8 ^h 50 | 18 ^h R22 |
| M 2 | 3 7 6 | 15 ^h 29'02 | 17 ^h 32 | 6 ^h 30 | 13 ^h 46 | 13 ^h 18 | 10 ^h 36 | 4 ^h 59 | 26 ^h 55 | 17 ^h 10 | 14 ^h Y10 | 29 ^h 16 | 27 ^h 35 | 8 ^h 57 | 18 ^h B19 |
| T 3 | 3 11 2 | 16 ^h 29'45 | 0 ^h 31 | 7 ^h 44 | 15 ^h 1 | 13 ^h 57 | 10 ^h 48 | 5 ^h 6 | 26 ^h 53 | 17 ^h 10 | 14 ^h 9 | 29 ^h 8 | 27 ^h 32 | 9 ^h 4 | 18 ^h 16 |
| W 4 | 3 14 59 | 17 ^h 30'29 | 13 ^h 44 | 8 ^h 55 | 16 ^h 15 | 14 ^h 36 | 11 ^h 0 | 5 ^h 13 | 26 ^h 50 | 17 ^h 10 | 14 ^h 8 | 28 ^h 59 | 27 ^h 29 | 9 ^h 10 | 18 ^h 12 |
| T 5 | 3 18 55 | 18 ^h 31'14 | 27 ^h 10 | 10 ^h 4 | 17 ^h 29 | 15 ^h 15 | 11 ^h 11 | 5 ^h 20 | 26 ^h 48 | 17 ^h 11 | 14 ^h 7 | 28 ^h 50 | 27 ^h 26 | 9 ^h 17 | 18 ^h 9 |
| F 6 | 3 22 52 | 19 ^h 32'01 | 10 ^h 347 | 11 ^h 10 | 18 ^h 43 | 15 ^h 54 | 11 ^h 23 | 5 ^h 26 | 26 ^h 45 | 17 ^h 11 | 14 ^h 6 | 28 ^h 43 | 27 ^h 22 | 9 ^h 24 | 18 ^h 6 |
| S 7 | 3 26 48 | 20 ^h 32'48 | 24 ^h 33 | 12 ^h 13 | 19 ^h 57 | 16 ^h 33 | 11 ^h 34 | 5 ^h 33 | 26 ^h 43 | 17 ^h 11 | 14 ^h 5 | 28 ^h 38 | 27 ^h 19 | 9 ^h 30 | 18 ^h 3 |
| S 8 | 3 30 45 | 21 ^h 33'37 | 8 ^h 27 | 13 ^h 12 | 21 ^h 11 | 17 ^h 13 | 11 ^h 46 | 5 ^h 40 | 26 ^h 40 | 17 ^h 12 | 14 ^h 5 | 28 ^h 35 | 27 ^h 16 | 9 ^h 37 | 17 ^h 59 |
| M 9 | 3 34 41 | 22 ^h 34'27 | 22 ^h 28 | 14 ^h 7 | 22 ^h 26 | 17 ^h 52 | 11 ^h 57 | 5 ^h 47 | 26 ^h 38 | 17 ^h 12 | 14 ^h 4 | 28 ^h D34 | 27 ^h 13 | 9 ^h 44 | 17 ^h 56 |
| T 10 | 3 38 38 | 23 ^h 35'17 | 6 ^h 35 | 14 ^h 57 | 23 ^h 40 | 18 ^h 31 | 12 ^h 8 | 5 ^h 54 | 26 ^h 35 | 17 ^h 12 | 14 ^h 3 | 28 ^h 35 | 27 ^h 10 | 9 ^h 50 | 17 ^h 53 |
| W11 | 3 42 35 | 24 ^h 36'08 | 20 ^h 47 | 15 ^h 42 | 24 ^h 54 | 19 ^h 10 | 12 ^h 20 | 6 ^h 1 | 26 ^h 33 | 17 ^h 12 | 14 ^h 2 | 28 ^h 36 | 27 ^h 6 | 9 ^h 57 | 17 ^h 49 |
| T 12 | 3 46 31 | 25 ^h 37'00 | 5 ^h Y 2 | 16 ^h 21 | 26 ^h 8 | 19 ^h 50 | 12 ^h 31 | 6 ^h 8 | 26 ^h 30 | 17 ^h 12 | 14 ^h 1 | 28 ^h R36 | 27 ^h 3 | 10 ^h 4 | 17 ^h 46 |
| F 13 | 3 50 28 | 26 ^h 37'54 | 19 ^h 18 | 16 ^h 52 | 27 ^h 22 | 20 ^h 29 | 12 ^h 42 | 6 ^h 15 | 26 ^h 27 | 17 ^h 12 | 14 ^h 0 | 28 ^h 34 | 27 ^h 0 | 10 ^h 10 | 17 ^h 43 |
| S 14 | 3 54 24 | 27 ^h 38'48 | 3 ^h B32 | 17 ^h 16 | 28 ^h 36 | 21 ^h 8 | 12 ^h 53 | 6 ^h 22 | 26 ^h 25 | 17 ^h R12 | 14 ^h 0 | 28 ^h 29 | 26 ^h 57 | 10 ^h 17 | 17 ^h 40 |
| S 15 | 3 58 21 | 28 ^h 39'43 | 17 ^h 38 | 17 ^h 32 | 29 ^h 50 | 21 ^h 47 | 13 ^h 4 | 6 ^h 29 | 26 ^h 22 | 17 ^h 12 | 13 ^h 59 | 28 ^h 22 | 26 ^h 54 | 10 ^h 24 | 17 ^h 36 |
| M16 | 4 2 17 | 29 ^h 40'39 | 1 ^h II33 | 17 ^h R38 | 1 ^h 4 | 22 ^h 27 | 13 ^h 15 | 6 ^h 36 | 26 ^h 20 | 17 ^h 12 | 13 ^h 58 | 28 ^h 13 | 26 ^h 51 | 10 ^h 30 | 17 ^h 33 |
| T 17 | 4 6 14 | 0 ^h 41'36 | 15 ^h 12 | 17 ^h 34 | 2 ^h 18 | 23 ^h 6 | 13 ^h 25 | 6 ^h 43 | 26 ^h 17 | 17 ^h 12 | 13 ^h 57 | 28 ^h 2 | 26 ^h 47 | 10 ^h 37 | 17 ^h 30 |
| W18 | 4 10 10 | 1 ^h 42'34 | 28 ^h 32 | 17 ^h 19 | 3 ^h 31 | 23 ^h 45 | 13 ^h 36 | 6 ^h 50 | 26 ^h 15 | 17 ^h 12 | 13 ^h 57 | 27 ^h 51 | 26 ^h 44 | 10 ^h 44 | 17 ^h 27 |
| T 19 | 4 14 7 | 2 ^h 43'34 | 11 ^h B30 | 16 ^h 53 | 4 ^h 45 | 24 ^h 25 | 13 ^h 47 | 6 ^h 57 | 26 ^h 12 | 17 ^h 12 | 13 ^h 56 | 27 ^h 40 | 26 ^h 41 | 10 ^h 50 | 17 ^h 24 |
| F 20 | 4 18 4 | 3 ^h 44'34 | 24 ^h 8 | 16 ^h 16 | 5 ^h 59 | 25 ^h 4 | 13 ^h 57 | 7 ^h 4 | 26 ^h 10 | 17 ^h 11 | 13 ^h 55 | 27 ^h 31 | 26 ^h 38 | 10 ^h 57 | 17 ^h 21 |
| S 21 | 4 22 0 | 4 ^h 45'35 | 6 ^h L27 | 15 ^h 27 | 7 ^h 13 | 25 ^h 44 | 14 ^h 8 | 7 ^h 11 | 26 ^h 7 | 17 ^h 11 | 13 ^h 55 | 27 ^h 25 | 26 ^h 35 | 11 ^h 3 | 17 ^h 18 |
| S 22 | 4 25 57 | 5 ^h 46'38 | 18 ^h 31 | 14 ^h 28 | 8 ^h 27 | 26 ^h 23 | 14 ^h 18 | 7 ^h 18 | 26 ^h 5 | 17 ^h 11 | 13 ^h 54 | 27 ^h 21 | 26 ^h 32 | 11 ^h 10 | 17 ^h 14 |
| M23 | 4 29 53 | 6 ^h 47'41 | 0 ^h 125 | 13 ^h 20 | 9 ^h 41 | 27 ^h 2 | 14 ^h 28 | 7 ^h 25 | 26 ^h 2 | 17 ^h 11 | 13 ^h 53 | 27 ^h 19 | 26 ^h 28 | 11 ^h 17 | 17 ^h 11 |
| T 24 | 4 33 50 | 7 ^h 48'46 | 12 ^h 13 | 12 ^h 4 | 10 ^h 54 | 27 ^h 42 | 14 ^h 38 | 7 ^h 32 | 26 ^h 0 | 17 ^h 10 | 13 ^h 53 | 27 ^h D19 | 26 ^h 25 | 11 ^h 23 | 17 ^h 8 |
| W25 | 4 37 46 | 8 ^h 49'52 | 24 ^h 2 | 10 ^h 44 | 12 ^h 8 | 28 ^h 21 | 14 ^h 48 | 7 ^h 40 | 25 ^h 57 | 17 ^h 10 | 13 ^h 52 | 27 ^h R20 | 26 ^h 22 | 11 ^h 30 | 17 ^h 5 |
| T 26 | 4 41 43 | 9 ^h 50'58 | 5 ^h 56 | 9 ^h 21 | 13 ^h 22 | 29 ^h 1 | 14 ^h 58 | 7 ^h 47 | 25 ^h 55 | 17 ^h 9 | 13 ^h 51 | 27 ^h 19 | 26 ^h 19 | 11 ^h 37 | 17 ^h 2 |
| F 27 | 4 45 39 | 10 ^h 52'06 | 18 ^h 1 | 7 ^h 59 | 14 ^h 35 | 29 ^h 40 | 15 ^h 8 | 7 ^h 54 | 25 ^h 52 | 17 ^h 9 | 13 ^h 51 | 27 ^h 17 | 26 ^h 16 | 11 ^h 43 | 16 ^h 59 |
| S 28 | 4 49 36 | 11 ^h 53'14 | 0 ^h 121 | 6 ^h 39 | 15 ^h 49 | 0 ^h 120 | 15 ^h 18 | 8 ^h 1 | 25 ^h 50 | 17 ^h 9 | 13 ^h 50 | 27 ^h 13 | 26 ^h 12 | 11 ^h 50 | 16 ^h 56 |
| S 29 | 4 53 33 | 12 ^h 54'23 | 13 ^h 0 | 5 ^h 26 | 17 ^h 3 | 0 ^h 59 | 15 ^h 27 | 8 ^h 8 | 25 ^h 48 | 17 ^h 8 | 13 ^h 50 | 27 ^h 6 | 26 ^h 9 | 11 ^h 57 | 16 ^h 54 |
| M30 | 4 57 29 | 13 ^h 55'33 | 26 ^h 11 0 | 4 ^h 20 | 18 ^h B16 | 1 ^h 139 | 15 ^h B37 | 8 ^h 15 | 25 ^h 45 | 17 ^h L 8 | 13 ^h Y49 | 26 ^h 56 | 26 ^h 6 | 12 ^h 3 | 16 ^h 51 |

Delta T = 17m47s

Julian Calendar 1 Nov. 1103 == Greg. Calendar 8 Nov. 1103

DECEMBER 1103 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|-----------------------|----------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|
| T 1 | 5 1 26 | 14 ^h 56'43 | 9 ^h 19 | 3 ^h R24 | 19 ^h B30 | 2 ^h 18 | 15 ^h 46 | 8 ^h 22 | 25 ^h R43 | 17 ^h R 7 | 13 ^h R49 | 26 ^h R44 | 26 ^h 3 | 12 ^h 10 | 16 ^h R48 |
| W 2 | 5 5 22 | 15 ^h 57'54 | 22 ^h 58 | 2 ^h 38 | 20 ^h 43 | 2 ^h 58 | 15 ^h 56 | 8 ^h 29 | 25 ^h B40 | 17 ^h L 6 | 13 ^h Y48 | 26 ^h 31 | 26 ^h 0 | 12 ^h 17 | 16 ^h B45 |
| T 3 | 5 9 19 | 16 ^h 59'06 | 6 ^h B51 | 2 ^h 3 | 21 ^h 57 | 3 ^h 37 | 16 ^h 5 | 8 ^h 36 | 25 ^h 38 | 17 ^h 6 | 13 ^h 48 | 26 ^h 18 | 25 ^h 57 | 12 ^h 23 | 16 ^h 42 |
| F 4 | 5 13 15 | 18 ^h 0'18 | 20 ^h 55 | 1 ^h 38 | 23 ^h 10 | 4 ^h 17 | 16 ^h 14 | 8 ^h 43 | 25 ^h 36 | 17 ^h 5 | 13 ^h 48 | 26 ^h 7 | 25 ^h 53 | 12 ^h 30 | 16 ^h 40 |
| S 5 | 5 17 12 | 19 ^h 1'29 | 5 ^h 5 5 | 1 ^h 25 | 24 ^h 23 | 4 ^h 57 | 16 ^h 23 | 8 ^h 50 | 25 ^h 34 | 17 ^h 4 | 13 ^h 47 | 25 ^h 58 | 25 ^h 50 | 12 ^h 37 | 16 ^h 37 |
| S 6 | 5 21 9 | 20 ^h 2'41 | 19 ^h 16 | 1 ^h D21 | 25 ^h 37 | 5 ^h 36 | 16 ^h 32 | 8 ^h 57 | 25 ^h 31 | 17 ^h 4 | 13 ^h 47 | 25 ^h 53 | 25 ^h 47 | 12 ^h 43 | 16 ^h 34 |
| M 7 | 5 25 5 | 21 ^h 3'53 | 3 ^h X27 | 1 ^h 27 | 26 ^h 50 | 6 ^h 16 | 16 ^h 41 | 9 ^h 4 | 25 ^h 29 | 17 ^h 3 | 13 ^h 46 | 25 ^h 50 | 25 ^h 44 | 12 ^h 50 | 16 ^h 32 |
| T 8 | 5 29 2 | 22 ^h 5'05 | 17 ^h 34 | 1 ^h 41 | 28 ^h 3 | 6 ^h 56 | 16 ^h 49 | 9 ^h 11 | 25 ^h 27 | 17 ^h 2 | 13 ^h 46 | 25 ^h 50 | 25 ^h 41 | 12 ^h 57 | 16 ^h 29 |
| W 9 | 5 32 58 | 23 ^h 6'17 | 1 ^h Y36 | 2 ^h 4 | 29 ^h 16 | 7 ^h 35 | 16 ^h 58 | 9 ^h 18 | 25 ^h 25 | 17 ^h 1 | 13 ^h 46 | 25 ^h 50 | 25 ^h 38 | 13 ^h 3 | 16 ^h 27 |
| T 10 | 5 36 55 | 24 ^h 7'28 | 15 ^h 34 | 2 ^h 33 | 0 ^h 30 | 8 ^h 15 | 17 ^h 6 | 9 ^h 25 | 25 ^h 23 | 17 ^h 0 | 13 ^h 45 | 25 ^h 49 | 25 ^h 34 | 13 ^h 10 | 16 ^h 24 |
| F 11 | 5 40 51 | 25 ^h 8'40 | 29 ^h 27 | 3 ^h 9 | 1 ^h 43 | 8 ^h 54 | 17 ^h 14 | 9 ^h 32 | 25 ^h 20 | 17 ^h 0 | 13 ^h 45 | 25 ^h 46 | 25 ^h 31 | 13 ^h 16 | 16 ^h 22 |
| S 12 | 5 44 48 | 26 ^h 9'51 | 13 ^h B14 | 3 ^h 51 | 2 ^h 56 | 9 ^h 34 | 17 ^h 23 | 9 ^h 39 | 25 ^h 18 | 16 ^h 59 | 13 ^h 45 | 25 ^h 40 | 25 ^h 28 | 13 ^h 23 | 16 ^h 20 |
| S 13 | 5 48 44 | 27 ^h 11'02 | 26 ^h 54 | 4 ^h 38 | 4 ^h 9 | 10 ^h 14 | 17 ^h 31 | 9 ^h 45 | 25 ^h 16 | 16 ^h 58 | 13 ^h 45 | 25 ^h 32 | 25 ^h 25 | 13 ^h 30 | 16 ^h 17 |
| M14 | 5 52 41 | 28 ^h 12'13 | 10 ^h II23 | 5 ^h 30 | 5 ^h 22 | 10 ^h 54 | 17 ^h 38 | 9 ^h 52 | 25 ^h 14 | 16 ^h 57 | 13 ^h 44 | 25 ^h 20 | 25 ^h 22 | 13 ^h 36 | 16 ^h 15 |
| T 15 | 5 56 38 | 29 ^h 13'24 | 23 ^h 41 | 6 ^h 26 | 6 ^h 34 | 11 ^h 33 | 17 ^h 46 | 9 ^h 59 | 25 ^h 12 | 16 ^h 56 | 13 ^h 44 | 25 ^h 7 | 25 ^h 18 | 13 ^h 43 | 16 ^h 13 |
| W16 | 6 0 34 | 0 ^h 14'35 | 6 ^h B44 | 7 ^h 25 | 7 ^h 47 | 12 ^h 13 | 17 ^h 54 | 10 ^h 6 | 25 ^h 10 | 16 ^h 55 | 13 ^h 44 | 24 ^h 53 | 25 ^h 15 | 13 ^h 50 | 16 ^h 11 |
| T 17 | 6 4 31 | 1 ^h 15'46 | 19 ^h 31 | 8 ^h 27 | 9 ^h 0 | 12 ^h 53 | 18 ^h 1 | 10 ^h 13 | 25 ^h 8 | 16 ^h 54 | 13 ^h 44 | 24 ^h 40 | 25 ^h 12 | 13 ^h 56 | 16 ^h 9 |
| F 18 | | | | | | | | | | | | | | | |