

SWISS EPHEMERIS for the year 2166

heliocentric

JANUARY 2166

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|---------|----------|-------|-------|-------|-------|------|-------|-------|------|------|-------|
| W 1 | 6 43 1 | 10°34'55 | 10°37 | 14°11 | 2°4 | 9°41 | 5°55 | 11°3 | 10°44 | 8°49 | 7°57 | 22°33 |
| T 2 | 6 46 58 | 11°36'05 | 11°37 | 17°38 | 3°41 | 10°9 | 6°0 | 11°3 | 10°44 | 8°49 | 7°57 | 22°33 |
| F 3 | 6 50 54 | 12°37'15 | 12°36 | 21°9 | 5°18 | 10°38 | 6°5 | 11°5 | 10°45 | 8°50 | 7°57 | 22°34 |
| S 4 | 6 54 51 | 13°38'25 | 13°35 | 24°46 | 6°56 | 11°7 | 6°11 | 11°7 | 10°46 | 8°50 | 7°58 | 22°34 |
| S 5 | 6 58 47 | 14°39'35 | 14°35 | 28°29 | 8°33 | 11°36 | 6°16 | 11°9 | 10°46 | 8°51 | 7°58 | 22°35 |
| M 6 | 7 2 44 | 15°40'45 | 15°34 | 2°17 | 10°11 | 12°5 | 6°22 | 11°11 | 10°47 | 8°51 | 7°58 | 22°36 |
| T 7 | 7 6 40 | 16°41'54 | 16°34 | 6°12 | 11°48 | 12°33 | 6°27 | 11°13 | 10°48 | 8°51 | 7°58 | 22°36 |
| W 8 | 7 10 37 | 17°43'03 | 17°35 | 10°14 | 13°26 | 13°2 | 6°33 | 11°14 | 10°48 | 8°52 | 7°58 | 22°37 |
| T 9 | 7 14 34 | 18°44'12 | 18°36 | 14°22 | 15°3 | 13°30 | 6°38 | 11°16 | 10°49 | 8°52 | 7°59 | 22°38 |
| F 10 | 7 18 30 | 19°45'21 | 19°37 | 18°39 | 16°41 | 13°59 | 6°44 | 11°18 | 10°50 | 8°52 | 7°59 | 22°38 |
| S 11 | 7 22 27 | 20°46'29 | 20°39 | 23°3 | 18°18 | 14°28 | 6°49 | 11°20 | 10°50 | 8°53 | 7°59 | 22°39 |
| S 12 | 7 26 23 | 21°47'36 | 21°41 | 27°35 | 19°56 | 14°56 | 6°55 | 11°22 | 10°51 | 8°53 | 7°59 | 22°40 |
| M13 | 7 30 20 | 22°48'43 | 22°43 | 2°16 | 21°33 | 15°24 | 7°0 | 11°23 | 10°52 | 8°53 | 7°59 | 22°40 |
| T 14 | 7 34 16 | 23°49'50 | 23°46 | 7°5 | 23°11 | 15°53 | 7°6 | 11°25 | 10°52 | 8°54 | 7°59 | 22°41 |
| W15 | 7 38 13 | 24°50'56 | 24°49 | 12°4 | 24°48 | 16°21 | 7°11 | 11°27 | 10°53 | 8°54 | 8°0 | 22°41 |
| T 16 | 7 42 9 | 25°52'02 | 25°51 | 17°12 | 26°26 | 16°50 | 7°17 | 11°29 | 10°54 | 8°54 | 8°0 | 22°42 |
| F 17 | 7 46 6 | 26°53'07 | 26°54 | 22°28 | 28°3 | 17°18 | 7°22 | 11°31 | 10°54 | 8°55 | 8°0 | 22°43 |
| S 18 | 7 50 3 | 27°54'12 | 27°57 | 27°54 | 29°41 | 17°46 | 7°28 | 11°32 | 10°55 | 8°55 | 8°0 | 22°43 |
| S 19 | 7 53 59 | 28°55'17 | 29°0 | 3°29 | 1°18 | 18°14 | 7°33 | 11°34 | 10°56 | 8°56 | 8°0 | 22°44 |
| M20 | 7 57 56 | 29°56'21 | 0°0 | 9°12 | 2°56 | 18°43 | 7°38 | 11°36 | 10°56 | 8°56 | 8°1 | 22°45 |
| T 21 | 8 1 52 | 0°57'25 | 1°5 | 15°3 | 4°33 | 19°11 | 7°44 | 11°38 | 10°57 | 8°56 | 8°1 | 22°45 |
| W22 | 8 5 49 | 1°58'29 | 2°7 | 21°2 | 6°11 | 19°39 | 7°49 | 11°40 | 10°58 | 8°57 | 8°1 | 22°46 |
| T 23 | 8 9 45 | 2°59'32 | 3°9 | 27°7 | 7°48 | 20°7 | 7°55 | 11°41 | 10°58 | 8°57 | 8°1 | 22°46 |
| F 24 | 8 13 42 | 4°0'35 | 4°10 | 3°17 | 9°26 | 20°35 | 8°0 | 11°43 | 10°59 | 8°57 | 8°1 | 22°47 |
| S 25 | 8 17 38 | 5°1'37 | 5°11 | 9°32 | 11°3 | 21°3 | 8°6 | 11°45 | 10°59 | 8°58 | 8°1 | 22°48 |
| S 26 | 8 21 35 | 6°2'39 | 6°11 | 15°50 | 12°41 | 21°31 | 8°11 | 11°47 | 11°0 | 8°58 | 8°2 | 22°48 |
| M27 | 8 25 32 | 7°3'41 | 7°12 | 22°9 | 14°18 | 21°59 | 8°17 | 11°49 | 11°1 | 8°58 | 8°2 | 22°49 |
| T 28 | 8 29 28 | 8°4'42 | 8°11 | 28°28 | 15°55 | 22°27 | 8°22 | 11°50 | 11°1 | 8°59 | 8°2 | 22°50 |
| W29 | 8 33 25 | 9°5'43 | 9°11 | 4°46 | 17°33 | 22°55 | 8°28 | 11°52 | 11°2 | 8°59 | 8°2 | 22°50 |
| T 30 | 8 37 21 | 10°6'43 | 10°10 | 11°1 | 19°10 | 23°23 | 8°33 | 11°54 | 11°3 | 9°0 | 8°2 | 22°51 |
| F 31 | 8 41 18 | 11°7'42 | 11°9 | 17°11 | 20°48 | 23°51 | 8°39 | 11°56 | 11°3 | 9°0 | 8°2 | 22°51 |

Delta T = 05m51s

FEBRUARY 2166

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|-----|-------|
| S 1 | 8 45 14 | 12°8'40 | 12°8 | 23°15 | 22°25 | 24°18 | 8°44 | 11°58 | 11°4 | 9°0 | 8°3 | 22°52 |
| S 2 | 8 49 11 | 13°9'38 | 13°7 | 29°13 | 24°2 | 24°46 | 8°49 | 11°59 | 11°5 | 9°1 | 8°3 | 22°53 |
| M 3 | 8 53 7 | 14°10'34 | 14°6 | 5°3 | 25°39 | 25°14 | 8°55 | 12°1 | 11°5 | 9°1 | 8°3 | 22°53 |
| T 4 | 8 57 4 | 15°11'29 | 15°6 | 10°44 | 27°17 | 25°42 | 9°0 | 12°3 | 11°6 | 9°1 | 8°3 | 22°54 |
| W 5 | 9 1 1 | 16°12'23 | 16°5 | 16°17 | 28°54 | 26°9 | 9°6 | 12°5 | 11°7 | 9°2 | 8°3 | 22°55 |
| T 6 | 9 4 57 | 17°13'15 | 17°5 | 21°40 | 0°31 | 26°37 | 9°11 | 12°7 | 11°7 | 9°2 | 8°4 | 22°55 |
| F 7 | 9 8 54 | 18°14'06 | 18°5 | 26°53 | 2°8 | 27°4 | 9°17 | 12°8 | 11°8 | 9°2 | 8°4 | 22°56 |
| S 8 | 9 12 50 | 19°14'56 | 19°6 | 1°56 | 3°45 | 27°32 | 9°22 | 12°10 | 11°9 | 9°3 | 8°4 | 22°57 |
| S 9 | 9 16 47 | 20°15'44 | 20°7 | 6°50 | 5°22 | 28°0 | 9°28 | 12°12 | 11°9 | 9°3 | 8°4 | 22°57 |
| M10 | 9 20 43 | 21°16'31 | 21°9 | 11°35 | 7°0 | 28°27 | 9°33 | 12°14 | 11°10 | 9°3 | 8°4 | 22°58 |
| T 11 | 9 24 40 | 22°17'16 | 22°11 | 16°10 | 8°37 | 28°55 | 9°39 | 12°16 | 11°11 | 9°4 | 8°5 | 22°59 |
| W12 | 9 28 36 | 23°18'00 | 23°13 | 20°37 | 10°14 | 29°22 | 9°44 | 12°18 | 11°11 | 9°4 | 8°5 | 22°59 |
| T 13 | 9 32 33 | 24°18'42 | 24°15 | 24°55 | 11°51 | 29°50 | 9°50 | 12°19 | 11°12 | 9°5 | 8°5 | 23°0 |
| F 14 | 9 36 30 | 25°19'23 | 25°18 | 29°5 | 13°27 | 0°17 | 9°55 | 12°21 | 11°13 | 9°5 | 8°5 | 23°0 |
| S 15 | 9 40 26 | 26°20'02 | 26°20 | 3°7 | 15°4 | 0°44 | 10°0 | 12°23 | 11°13 | 9°5 | 8°5 | 23°1 |
| S 16 | 9 44 23 | 27°20'40 | 27°22 | 7°2 | 16°41 | 1°12 | 10°6 | 12°25 | 11°14 | 9°6 | 8°5 | 23°2 |
| M17 | 9 48 19 | 28°21'17 | 28°25 | 10°51 | 18°18 | 1°39 | 10°11 | 12°27 | 11°15 | 9°6 | 8°6 | 23°2 |
| T 18 | 9 52 16 | 29°21'52 | 29°27 | 14°33 | 19°55 | 2°6 | 10°17 | 12°28 | 11°15 | 9°6 | 8°6 | 23°3 |
| W19 | 9 56 12 | 0°22'27 | 0°29 | 18°9 | 21°31 | 2°34 | 10°22 | 12°30 | 11°16 | 9°7 | 8°6 | 23°4 |
| T 20 | 10 0 9 | 1°22'59 | 1°31 | 21°39 | 23°8 | 3°1 | 10°28 | 12°32 | 11°17 | 9°7 | 8°6 | 23°4 |
| F 21 | 10 4 5 | 2°23'31 | 2°32 | 25°5 | 24°45 | 3°28 | 10°33 | 12°34 | 11°17 | 9°7 | 8°6 | 23°5 |
| S 22 | 10 8 2 | 3°24'01 | 3°33 | 28°26 | 26°21 | 3°55 | 10°39 | 12°36 | 11°18 | 9°8 | 8°7 | 23°5 |
| S 23 | 10 11 59 | 4°24'30 | 4°34 | 1°42 | 27°58 | 4°22 | 10°44 | 12°37 | 11°19 | 9°8 | 8°7 | 23°6 |
| M24 | 10 15 55 | 5°24'58 | 5°34 | 4°54 | 29°34 | 4°50 | 10°50 | 12°39 | 11°19 | 9°9 | 8°7 | 23°7 |
| T 25 | 10 19 52 | 6°25'24 | 6°34 | 8°3 | 1°11 | 5°17 | 10°55 | 12°41 | 11°20 | 9°9 | 8°7 | 23°7 |
| W26 | 10 23 48 | 7°25'49 | 7°33 | 11°8 | 2°47 | 5°44 | 11°0 | 12°43 | 11°21 | 9°9 | 8°7 | 23°8 |
| T 27 | 10 27 45 | 8°26'13 | 8°32 | 14°10 | 4°24 | 6°11 | 11°6 | 12°45 | 11°21 | 9°10 | 8°7 | 23°9 |
| F 28 | 10 31 41 | 9°26'35 | 9°31 | 17°9 | 6°0 | 6°38 | 11°11 | 12°46 | 11°22 | 9°10 | 8°8 | 23°9 |

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SWISS EPHEMERIS for the year 2166
heliocentric

MARCH 2166

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|-------------------|-------------------|--------------------|
| S 1 | 10 35 38 | 10 ^m 26'56 | 10 ^m 29 | 20 ^m 6 | 7 ^m 36 | 7 ^h 5 | 11 ^h 18 | 12 ^h 348 | 11 ^h 23 | 9 ^h 10 | 8 ^h 8 | 23 ^h 10 |
| S 2 | 10 39 34 | 11°27'15 | 11°28 | 23° 1 | 9°12 | 7°32 | 11°22 | 12°50 | 11°23 | 9°11 | 8° 8 | 23°11 |
| M 3 | 10 43 31 | 12°27'32 | 12°26 | 25°53 | 10°49 | 7°59 | 11°28 | 12°52 | 11°24 | 9°11 | 8° 8 | 23°11 |
| T 4 | 10 47 27 | 13°27'48 | 13°24 | 28°44 | 12°25 | 8°26 | 11°33 | 12°54 | 11°25 | 9°11 | 8° 8 | 23°12 |
| W 5 | 10 51 24 | 14°28'02 | 14°23 | 1 ^h 33 | 14° 1 | 8°53 | 11°39 | 12°55 | 11°25 | 9°12 | 8° 9 | 23°12 |
| T 6 | 10 55 21 | 15°28'13 | 15°22 | 4°21 | 15°37 | 9°20 | 11°44 | 12°57 | 11°26 | 9°12 | 8° 9 | 23°13 |
| F 7 | 10 59 17 | 16°28'23 | 16°21 | 7° 8 | 17°13 | 9°47 | 11°49 | 12°59 | 11°27 | 9°12 | 8° 9 | 23°14 |
| S 8 | 11 3 14 | 17°28'31 | 17°20 | 9°54 | 18°49 | 10°14 | 11°55 | 13° 1 | 11°27 | 9°13 | 8° 9 | 23°14 |
| S 9 | 11 7 10 | 18°28'36 | 18°20 | 12°39 | 20°25 | 10°40 | 12° 0 | 13° 3 | 11°28 | 9°13 | 8° 9 | 23°15 |
| M10 | 11 11 7 | 19°28'39 | 19°20 | 15°24 | 22° 1 | 11° 7 | 12° 6 | 13° 4 | 11°29 | 9°14 | 8° 9 | 23°16 |
| T 11 | 11 15 3 | 20°28'41 | 20°21 | 18° 9 | 23°36 | 11°34 | 12°11 | 13° 6 | 11°29 | 9°14 | 8°10 | 23°16 |
| W12 | 11 19 0 | 21°28'40 | 21°21 | 20°54 | 25°12 | 12° 1 | 12°17 | 13° 8 | 11°30 | 9°14 | 8°10 | 23°17 |
| T 13 | 11 22 56 | 22°28'37 | 22°22 | 23°38 | 26°48 | 12°28 | 12°22 | 13°10 | 11°30 | 9°15 | 8°10 | 23°17 |
| F 14 | 11 26 53 | 23°28'31 | 23°24 | 26°24 | 28°24 | 12°54 | 12°28 | 13°12 | 11°31 | 9°15 | 8°10 | 23°18 |
| S 15 | 11 30 50 | 24°28'24 | 24°25 | 29° 9 | 29°59 | 13°21 | 12°33 | 13°14 | 11°32 | 9°15 | 8°10 | 23°19 |
| S 16 | 11 34 46 | 25°28'15 | 25°27 | 1 ^h 35 | 1 ^h 35 | 13°48 | 12°39 | 13°15 | 11°32 | 9°16 | 8°11 | 23°19 |
| M17 | 11 38 43 | 26°28'04 | 26°28 | 4°44 | 3°11 | 14°15 | 12°44 | 13°17 | 11°33 | 9°16 | 8°11 | 23°20 |
| T 18 | 11 42 39 | 27°27'50 | 27°30 | 7°32 | 4°46 | 14°41 | 12°49 | 13°19 | 11°34 | 9°16 | 8°11 | 23°21 |
| W19 | 11 46 36 | 28°27'35 | 28°31 | 10°23 | 6°22 | 15° 8 | 12°55 | 13°21 | 11°34 | 9°17 | 8°11 | 23°21 |
| T 20 | 11 50 32 | 29°27'18 | 29°33 | 13°15 | 7°57 | 15°35 | 13° 0 | 13°23 | 11°35 | 9°17 | 8°11 | 23°22 |
| F 21 | 11 54 29 | 0 ^h 26'59 | 0 ^h 34 | 16° 8 | 9°33 | 16° 1 | 13° 6 | 13°24 | 11°36 | 9°18 | 8°11 | 23°22 |
| S 22 | 11 58 25 | 1°26'39 | 1°34 | 19° 4 | 11° 8 | 16°28 | 13°11 | 13°26 | 11°36 | 9°18 | 8°12 | 23°23 |
| S 23 | 12 2 22 | 2°26'17 | 2°35 | 22° 2 | 12°43 | 16°54 | 13°17 | 13°28 | 11°37 | 9°18 | 8°12 | 23°24 |
| M24 | 12 6 19 | 3°25'53 | 3°35 | 25° 3 | 14°19 | 17°21 | 13°22 | 13°30 | 11°38 | 9°19 | 8°12 | 23°24 |
| T 25 | 12 10 15 | 4°25'27 | 4°34 | 28° 7 | 15°54 | 17°48 | 13°28 | 13°32 | 11°38 | 9°19 | 8°12 | 23°25 |
| W26 | 12 14 12 | 5°25'00 | 5°34 | 1 ^h 14 | 17°29 | 18°14 | 13°33 | 13°33 | 11°39 | 9°19 | 8°12 | 23°26 |
| T 27 | 12 18 8 | 6°24'30 | 6°32 | 4°24 | 19° 5 | 18°41 | 13°38 | 13°35 | 11°40 | 9°20 | 8°13 | 23°26 |
| F 28 | 12 22 5 | 7°24'00 | 7°31 | 7°38 | 20°40 | 19° 7 | 13°44 | 13°37 | 11°40 | 9°20 | 8°13 | 23°27 |
| S 29 | 12 26 1 | 8°23'27 | 8°29 | 10°55 | 22°15 | 19°34 | 13°49 | 13°39 | 11°41 | 9°20 | 8°13 | 23°28 |
| S 30 | 12 29 58 | 9°22'52 | 9°26 | 14°18 | 23°50 | 20° 0 | 13°55 | 13°41 | 11°42 | 9°21 | 8°13 | 23°28 |
| MB1 | 12 33 54 | 10 ^h 22'16 | 10 ^h 24 | 17 ^h 44 | 25 ^h 25 | 20 ^h 27 | 14 ^h 0 | 13 ^h 42 | 11 ^h 42 | 9 ^h 21 | 8 ^h 13 | 23 ^h 29 |

Delta T = 05m51s

APRIL 2166

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|
| T 1 | 12 37 51 | 11 ^h 21'37 | 11 ^h 21 | 21 ^h 16 | 27 ^h 0 | 20 ^h 53 | 14 ^h 6 | 13 ^h 44 | 11 ^h 43 | 9 ^h 21 | 8 ^h 13 | 23 ^h 29 |
| W 2 | 12 41 47 | 12°20'57 | 12°18 | 24°53 | 28°35 | 21°20 | 14°11 | 13°46 | 11°44 | 9°22 | 8°14 | 23°30 |
| T 3 | 12 45 44 | 13°20'14 | 13°16 | 28°36 | 0 ^h 10 | 21°46 | 14°17 | 13°48 | 11°44 | 9°22 | 8°14 | 23°31 |
| F 4 | 12 49 41 | 14°19'29 | 14°13 | 2 ^h 24 | 1°46 | 22°12 | 14°22 | 13°50 | 11°45 | 9°23 | 8°14 | 23°31 |
| S 5 | 12 53 37 | 15°18'42 | 15°11 | 6°19 | 3°21 | 22°39 | 14°27 | 13°51 | 11°46 | 9°23 | 8°14 | 23°32 |
| S 6 | 12 57 34 | 16°17'53 | 16°10 | 10°21 | 4°56 | 23° 5 | 14°33 | 13°53 | 11°46 | 9°23 | 8°14 | 23°33 |
| M 7 | 13 1 30 | 17°17'02 | 17° 8 | 14°30 | 6°31 | 23°32 | 14°38 | 13°55 | 11°47 | 9°24 | 8°15 | 23°33 |
| T 8 | 13 5 27 | 18°16'08 | 18° 7 | 18°47 | 8° 6 | 23°58 | 14°44 | 13°57 | 11°48 | 9°24 | 8°15 | 23°34 |
| W 9 | 13 9 23 | 19°15'11 | 19° 7 | 23°11 | 9°41 | 24°24 | 14°49 | 13°59 | 11°48 | 9°24 | 8°15 | 23°34 |
| T 10 | 13 13 20 | 20°14'13 | 20° 6 | 27°44 | 11°15 | 24°51 | 14°55 | 14° 0 | 11°49 | 9°25 | 8°15 | 23°35 |
| F 11 | 13 17 16 | 21°13'12 | 21° 6 | 2 ^h 25 | 12°50 | 25°17 | 15° 0 | 14° 2 | 11°50 | 9°25 | 8°15 | 23°36 |
| S 12 | 13 21 13 | 22°12'09 | 22° 6 | 7°14 | 14°25 | 25°44 | 15° 5 | 14° 4 | 11°50 | 9°25 | 8°15 | 23°36 |
| S 13 | 13 25 10 | 23°11'03 | 23° 7 | 12°13 | 16° 0 | 26°10 | 15°11 | 14° 6 | 11°51 | 9°26 | 8°16 | 23°37 |
| M14 | 13 29 6 | 24° 9'56 | 24° 7 | 17°21 | 17°35 | 26°36 | 15°16 | 14° 8 | 11°52 | 9°26 | 8°16 | 23°38 |
| T 15 | 13 33 3 | 25° 8'46 | 25° 8 | 22°38 | 19°10 | 27° 3 | 15°22 | 14° 9 | 11°52 | 9°26 | 8°16 | 23°38 |
| W16 | 13 36 59 | 26° 7'35 | 26° 8 | 28° 4 | 20°45 | 27°29 | 15°27 | 14°11 | 11°53 | 9°27 | 8°16 | 23°39 |
| T 17 | 13 40 56 | 27° 6'22 | 27° 9 | 3 ^h 39 | 22°20 | 27°55 | 15°33 | 14°13 | 11°54 | 9°27 | 8°16 | 23°39 |
| F 18 | 13 44 52 | 28° 5'06 | 28° 9 | 9°23 | 23°55 | 28°21 | 15°38 | 14°15 | 11°54 | 9°28 | 8°17 | 23°40 |
| S 19 | 13 48 49 | 29° 3'49 | 29° 9 | 15°14 | 25°30 | 28°48 | 15°44 | 14°17 | 11°55 | 9°28 | 8°17 | 23°41 |
| S 20 | 13 52 45 | 0 ^h 2'30 | 0 ^h 9 | 21°13 | 27° 4 | 29°14 | 15°49 | 14°19 | 11°56 | 9°28 | 8°17 | 23°41 |
| M21 | 13 56 42 | 1° 1'10 | 1° 9 | 27°18 | 28°39 | 29°40 | 15°54 | 14°20 | 11°56 | 9°29 | 8°17 | 23°42 |
| T 22 | 14 0 39 | 1°59'47 | 2° 8 | 3 ^h 29 | 0 ^h 14 | 0 ^h 6 | 16° 0 | 14°22 | 11°57 | 9°29 | 8°17 | 23°43 |
| W23 | 14 4 35 | 2°58'24 | 3° 7 | 9°44 | 1°49 | 0°33 | 16° 5 | 14°24 | 11°58 | 9°29 | 8°17 | 23°43 |
| T 24 | 14 8 32 | 3°56'58 | 4° 5 | 16° 2 | 3°24 | 0°59 | 16°11 | 14°26 | 11°58 | 9°30 | 8°18 | 23°44 |
| F 25 | 14 12 28 | 4°55'31 | 5° 3 | 22°21 | 4°59 | 1°25 | 16°16 | 14°28 | 11°59 | 9°30 | 8°18 | 23°44 |
| S 26 | 14 16 25 | 5°54'02 | 6° 1 | 28°40 | 6°34 | 1°51 | 16°22 | 14°29 | 11°59 | 9°30 | 8°18 | 23°45 |
| S 27 | 14 20 21 | 6°52'32 | 6°58 | 4 ^h 58 | 8° 9 | 2°18 | 16°27 | 14°31 | 12° 0 | 9°31 | 8°18 | 23°46 |
| M28 | 14 24 18 | 7°50'59 | 7°55 | 11°12 | 9°44 | 2°44 | 16°32 | 14°33 | 12° 1 | 9°31 | 8°18 | 23°46 |
| T 29 | 14 28 14 | 8°49'26 | 8°51 | 17°22 | 11°18 | 3°10 | 16°38 | 14°35 | 12° 1 | 9°32 | 8°19 | 23°47 |
| W30 | 14 32 11 | 9 ^h 47'50 | 9 ^h 48 | 23 ^h 27 | 12 ^h 53 | 3 ^h 36 | 16 ^h 43 | 14 ^h 37 | 12 ^h 2 | 9 ^h 32 | 8 ^h 19 | 23 ^h 48 |

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SWISS EPHEMERIS for the year 2166
heliocentric

MAY 2166

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| T 1 | 14 36 8 | 10M46'13 | 10M44 | 29Ω24 | 14Ω28 | 4M 3 | 16Ω49 | 14Ω38 | 12Ω 3 | 9Ω32 | 8Ω19 | 23K48 |
| F 2 | 14 40 4 | 11°44'34 | 11°41 | 5Ω14 | 16° 3 | 4°29 | 16°54 | 14°40 | 12° 3 | 9°33 | 8°19 | 23°49 |
| S 3 | 14 44 1 | 12°42'53 | 12°37 | 10°55 | 17°38 | 4°55 | 17° 0 | 14°42 | 12° 4 | 9°33 | 8°19 | 23°50 |
| S 4 | 14 47 57 | 13°41'10 | 13°34 | 16°27 | 19°13 | 5°21 | 17° 5 | 14°44 | 12° 5 | 9°33 | 8°19 | 23°50 |
| M 5 | 14 51 54 | 14°39'25 | 14°31 | 21°50 | 20°48 | 5°47 | 17°10 | 14°46 | 12° 5 | 9°34 | 8°20 | 23°51 |
| T 6 | 14 55 50 | 15°37'38 | 15°29 | 27° 3 | 22°23 | 6°14 | 17°16 | 14°47 | 12° 6 | 9°34 | 8°20 | 23°51 |
| W 7 | 14 59 47 | 16°35'49 | 16°27 | 2M 6 | 23°58 | 6°40 | 17°21 | 14°49 | 12° 7 | 9°34 | 8°20 | 23°52 |
| T 8 | 15 3 43 | 17°33'58 | 17°25 | 7° 0 | 25°33 | 7° 6 | 17°27 | 14°51 | 12° 7 | 9°35 | 8°20 | 23°53 |
| F 9 | 15 7 40 | 18°32'05 | 18°24 | 11°44 | 27° 8 | 7°32 | 17°32 | 14°53 | 12° 8 | 9°35 | 8°20 | 23°53 |
| S 10 | 15 11 37 | 19°30'10 | 19°22 | 16°19 | 28°43 | 7°58 | 17°38 | 14°55 | 12° 9 | 9°35 | 8°21 | 23°54 |
| S 11 | 15 15 33 | 20°28'13 | 20°22 | 20°45 | 0K18 | 8°25 | 17°43 | 14°56 | 12° 9 | 9°36 | 8°21 | 23°55 |
| M12 | 15 19 30 | 21°26'14 | 21°21 | 25° 3 | 1°53 | 8°51 | 17°48 | 14°58 | 12°10 | 9°36 | 8°21 | 23°55 |
| T 13 | 15 23 26 | 22°24'14 | 22°20 | 29°13 | 3°28 | 9°17 | 17°54 | 15° 0 | 12°11 | 9°37 | 8°21 | 23°56 |
| W14 | 15 27 23 | 23°22'11 | 23°20 | 3Ω15 | 5° 3 | 9°43 | 17°59 | 15° 2 | 12°11 | 9°37 | 8°21 | 23°56 |
| T 15 | 15 31 19 | 24°20'08 | 24°20 | 7°10 | 6°38 | 10° 9 | 18° 5 | 15° 4 | 12°12 | 9°37 | 8°21 | 23°57 |
| F 16 | 15 35 16 | 25°18'03 | 25°19 | 10°58 | 8°14 | 10°36 | 18°10 | 15° 6 | 12°13 | 9°38 | 8°22 | 23°58 |
| S 17 | 15 39 12 | 26°15'56 | 26°19 | 14°40 | 9°49 | 11° 2 | 18°16 | 15° 7 | 12°13 | 9°38 | 8°22 | 23°58 |
| S 18 | 15 43 9 | 27°13'48 | 27°19 | 18°16 | 11°24 | 11°28 | 18°21 | 15° 9 | 12°14 | 9°38 | 8°22 | 23°59 |
| M19 | 15 47 6 | 28°11'38 | 28°18 | 21°46 | 12°59 | 11°54 | 18°26 | 15°11 | 12°15 | 9°39 | 8°22 | 24° 0 |
| T 20 | 15 51 2 | 29° 9'28 | 29°17 | 25°11 | 14°34 | 12°20 | 18°32 | 15°13 | 12°15 | 9°39 | 8°22 | 24° 0 |
| W21 | 15 54 59 | 0Ω 7'16 | 0Ω15 | 28°32 | 16° 9 | 12°47 | 18°37 | 15°15 | 12°16 | 9°39 | 8°23 | 24° 1 |
| T 22 | 15 58 55 | 1° 5'03 | 1°13 | 1M48 | 17°45 | 13°13 | 18°43 | 15°16 | 12°17 | 9°40 | 8°23 | 24° 1 |
| F 23 | 16 2 52 | 2° 2'49 | 2°11 | 5° 0 | 19°20 | 13°39 | 18°48 | 15°18 | 12°17 | 9°40 | 8°23 | 24° 2 |
| S 24 | 16 6 48 | 3° 0'34 | 3° 9 | 8° 9 | 20°55 | 14° 5 | 18°54 | 15°20 | 12°18 | 9°41 | 8°23 | 24° 3 |
| S 25 | 16 10 45 | 3°58'17 | 4° 5 | 11°14 | 22°30 | 14°31 | 18°59 | 15°22 | 12°19 | 9°41 | 8°23 | 24° 3 |
| M26 | 16 14 41 | 4°56'00 | 5° 2 | 14°16 | 24° 6 | 14°58 | 19° 4 | 15°24 | 12°19 | 9°41 | 8°23 | 24° 4 |
| T 27 | 16 18 38 | 5°53'42 | 5°58 | 17°15 | 25°41 | 15°24 | 19°10 | 15°25 | 12°20 | 9°42 | 8°24 | 24° 5 |
| W28 | 16 22 35 | 6°51'23 | 6°54 | 20°12 | 27°16 | 15°50 | 19°15 | 15°27 | 12°21 | 9°42 | 8°24 | 24° 5 |
| T 29 | 16 26 31 | 7°49'02 | 7°50 | 23° 6 | 28°52 | 16°16 | 19°21 | 15°29 | 12°21 | 9°42 | 8°24 | 24° 6 |
| F 30 | 16 30 28 | 8°46'41 | 8°45 | 25°59 | 0Y27 | 16°43 | 19°26 | 15°31 | 12°22 | 9°43 | 8°24 | 24° 6 |
| S 31 | 16 34 24 | 9Ω44'18 | 9Ω41 | 28M49 | 2Y 3 | 17M 9 | 19Ω31 | 15Ω33 | 12Ω23 | 9Ω43 | 8Ω24 | 24K 7 |

Delta T = 05m51s

JUNE 2166

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| S 1 | 16 38 21 | 10Ω41'54 | 10Ω37 | 1Ω39 | 3Y38 | 17M35 | 19Ω37 | 15Ω34 | 12Ω23 | 9Ω43 | 8Ω25 | 24K 8 |
| M 2 | 16 42 17 | 11°39'28 | 11°33 | 4°26 | 5°14 | 18° 1 | 19°42 | 15°36 | 12°24 | 9°44 | 8°25 | 24° 8 |
| T 3 | 16 46 14 | 12°37'02 | 12°29 | 7°13 | 6°49 | 18°28 | 19°48 | 15°38 | 12°25 | 9°44 | 8°25 | 24° 9 |
| W 4 | 16 50 10 | 13°34'34 | 13°26 | 9°59 | 8°25 | 18°54 | 19°53 | 15°40 | 12°25 | 9°45 | 8°25 | 24°10 |
| T 5 | 16 54 7 | 14°32'04 | 14°23 | 12°45 | 10° 0 | 19°20 | 19°59 | 15°42 | 12°26 | 9°45 | 8°25 | 24°10 |
| F 6 | 16 58 4 | 15°29'34 | 15°20 | 15°29 | 11°36 | 19°46 | 20° 4 | 15°43 | 12°27 | 9°45 | 8°25 | 24°11 |
| S 7 | 17 2 0 | 16°27'02 | 16°18 | 18°14 | 13°11 | 20°13 | 20° 9 | 15°45 | 12°27 | 9°46 | 8°26 | 24°12 |
| S 8 | 17 5 57 | 17°24'28 | 17°16 | 20°59 | 14°47 | 20°39 | 20°15 | 15°47 | 12°28 | 9°46 | 8°26 | 24°12 |
| M 9 | 17 9 53 | 18°21'54 | 18°15 | 23°44 | 16°22 | 21° 5 | 20°20 | 15°49 | 12°28 | 9°46 | 8°26 | 24°13 |
| T 10 | 17 13 50 | 19°19'19 | 19°13 | 26°29 | 17°58 | 21°32 | 20°26 | 15°51 | 12°29 | 9°47 | 8°26 | 24°13 |
| W11 | 17 17 46 | 20°16'42 | 20°12 | 29°15 | 19°34 | 21°58 | 20°31 | 15°53 | 12°30 | 9°47 | 8°26 | 24°14 |
| T 12 | 17 21 43 | 21°14'05 | 21°11 | 2Ω 1 | 21° 9 | 22°24 | 20°36 | 15°54 | 12°30 | 9°47 | 8°27 | 24°15 |
| F 13 | 17 25 39 | 22°11'26 | 22°10 | 4°49 | 22°45 | 22°51 | 20°42 | 15°56 | 12°31 | 9°48 | 8°27 | 24°15 |
| S 14 | 17 29 36 | 23° 8'47 | 23° 9 | 7°38 | 24°21 | 23°17 | 20°47 | 15°58 | 12°32 | 9°48 | 8°27 | 24°16 |
| S 15 | 17 33 33 | 24° 6'08 | 24° 8 | 10°28 | 25°57 | 23°43 | 20°53 | 16° 0 | 12°32 | 9°48 | 8°27 | 24°17 |
| M16 | 17 37 29 | 25° 3'27 | 25° 7 | 13°20 | 27°33 | 24°10 | 20°58 | 16° 2 | 12°33 | 9°49 | 8°27 | 24°17 |
| T 17 | 17 41 26 | 26° 0'46 | 26° 6 | 16°14 | 29° 8 | 24°36 | 21° 4 | 16° 3 | 12°34 | 9°49 | 8°27 | 24°18 |
| W18 | 17 45 22 | 26°58'04 | 27° 5 | 19°10 | 0Ω44 | 25° 2 | 21° 9 | 16° 5 | 12°34 | 9°50 | 8°28 | 24°18 |
| T 19 | 17 49 19 | 27°55'23 | 28° 3 | 22° 8 | 2°20 | 25°29 | 21°14 | 16° 7 | 12°35 | 9°50 | 8°28 | 24°19 |
| F 20 | 17 53 15 | 28°52'40 | 29° 1 | 25° 9 | 3°56 | 25°55 | 21°20 | 16° 9 | 12°36 | 9°50 | 8°28 | 24°20 |
| S 21 | 17 57 12 | 29°49'58 | 29°58 | 28°13 | 5°32 | 26°22 | 21°25 | 16°11 | 12°36 | 9°51 | 8°28 | 24°20 |
| S 22 | 18 1 8 | 0Ω47'15 | 0Ω55 | 1Ω20 | 7° 8 | 26°48 | 21°31 | 16°12 | 12°37 | 9°51 | 8°28 | 24°21 |
| M23 | 18 5 5 | 1°44'32 | 1°52 | 4°30 | 8°44 | 27°14 | 21°36 | 16°14 | 12°38 | 9°51 | 8°29 | 24°22 |
| T 24 | 18 9 2 | 2°41'48 | 2°48 | 7°44 | 10°20 | 27°41 | 21°41 | 16°16 | 12°38 | 9°52 | 8°29 | 24°22 |
| W25 | 18 12 58 | 3°39'05 | 3°44 | 11° 2 | 11°56 | 28° 7 | 21°47 | 16°18 | 12°39 | 9°52 | 8°29 | 24°23 |
| T 26 | 18 16 55 | 4°36'21 | 4°40 | 14°24 | 13°32 | 28°34 | 21°52 | 16°20 | 12°40 | 9°52 | 8°29 | 24°23 |
| F 27 | 18 20 51 | 5°33'38 | 5°35 | 17°51 | 15° 8 | 29° 0 | 21°58 | 16°21 | 12°40 | 9°53 | 8°29 | 24°24 |
| S 28 | 18 24 48 | 6°30'54 | 6°30 | 21°23 | 16°44 | 29°27 | 22° 3 | 16°23 | 12°41 | 9°53 | 8°30 | 24°25 |
| S 29 | 18 28 44 | 7°28'09 | 7°26 | 25° 0 | 18°20 | 29°53 | 22° 8 | 16°25 | 12°42 | 9°54 | 8°30 | 24°25 |
| M30 | 18 32 41 | 8Ω25'24 | 8Ω21 | 28Ω43 | 19Ω56 | 0Ω20 | 22Ω14 | 16Ω27 | 12Ω42 | 9Ω54 | 8Ω30 | 24K26 |

Delta T = 05m52s

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SWISS EPHEMERIS for the year 2166
heliocentric

JULY 2166

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| T 1 | 18 36 37 | 9♁22'39 | 9♁17 | 2♃32 | 21♂33 | 0♁47 | 22♂19 | 16♁29 | 12♁43 | 9♁54 | 8♁30 | 24♃27 |
| W 2 | 18 40 34 | 10°19'53 | 10°13 | 6°27 | 23° 9 | 1°13 | 22°25 | 16°31 | 12°44 | 9°55 | 8°30 | 24°27 |
| T 3 | 18 44 31 | 11°17'07 | 11° 9 | 10°29 | 24°45 | 1°40 | 22°30 | 16°32 | 12°44 | 9°55 | 8°30 | 24°28 |
| F 4 | 18 48 27 | 12°14'21 | 12° 6 | 14°38 | 26°21 | 2° 6 | 22°36 | 16°34 | 12°45 | 9°55 | 8°31 | 24°28 |
| S 5 | 18 52 24 | 13°11'34 | 13° 2 | 18°55 | 27°58 | 2°33 | 22°41 | 16°36 | 12°46 | 9°56 | 8°31 | 24°29 |
| S 6 | 18 56 20 | 14° 8'46 | 14° 0 | 23°19 | 29°34 | 3° 0 | 22°46 | 16°38 | 12°46 | 9°56 | 8°31 | 24°30 |
| M 7 | 19 0 17 | 15° 5'59 | 14°57 | 27°52 | 1♂10 | 3°26 | 22°52 | 16°40 | 12°47 | 9°56 | 8°31 | 24°30 |
| T 8 | 19 4 13 | 16° 3'11 | 15°55 | 2♃34 | 2°47 | 3°53 | 22°57 | 16°41 | 12°48 | 9°57 | 8°31 | 24°31 |
| W 9 | 19 8 10 | 17° 0'23 | 16°53 | 7°24 | 4°23 | 4°20 | 23° 3 | 16°43 | 12°48 | 9°57 | 8°32 | 24°32 |
| T 10 | 19 12 6 | 17°57'35 | 17°52 | 12°23 | 6° 0 | 4°46 | 23° 8 | 16°45 | 12°49 | 9°57 | 8°32 | 24°32 |
| F 11 | 19 16 3 | 18°54'46 | 18°51 | 17°31 | 7°36 | 5°13 | 23°13 | 16°47 | 12°50 | 9°58 | 8°32 | 24°33 |
| S 12 | 19 20 0 | 19°51'58 | 19°50 | 22°48 | 9°13 | 5°40 | 23°19 | 16°49 | 12°50 | 9°58 | 8°32 | 24°33 |
| S 13 | 19 23 56 | 20°49'10 | 20°49 | 28°15 | 10°49 | 6° 7 | 23°24 | 16°50 | 12°51 | 9°59 | 8°32 | 24°34 |
| M14 | 19 27 53 | 21°46'22 | 21°48 | 3♂50 | 12°26 | 6°33 | 23°30 | 16°52 | 12°52 | 9°59 | 8°32 | 24°35 |
| T 15 | 19 31 49 | 22°43'34 | 22°47 | 9°34 | 14° 2 | 7° 0 | 23°35 | 16°54 | 12°52 | 9°59 | 8°33 | 24°35 |
| W16 | 19 35 46 | 23°40'46 | 23°46 | 15°25 | 15°39 | 7°27 | 23°40 | 16°56 | 12°53 | 10° 0 | 8°33 | 24°36 |
| T 17 | 19 39 42 | 24°37'59 | 24°44 | 21°24 | 17°16 | 7°54 | 23°46 | 16°58 | 12°54 | 10° 0 | 8°33 | 24°37 |
| F 18 | 19 43 39 | 25°35'12 | 25°43 | 27°30 | 18°52 | 8°21 | 23°51 | 16°59 | 12°54 | 10° 0 | 8°33 | 24°37 |
| S 19 | 19 47 35 | 26°32'26 | 26°40 | 3♂41 | 20°29 | 8°48 | 23°57 | 17° 1 | 12°55 | 10° 1 | 8°33 | 24°38 |
| S 20 | 19 51 32 | 27°29'41 | 27°38 | 9°56 | 22° 6 | 9°14 | 24° 2 | 17° 3 | 12°56 | 10° 1 | 8°34 | 24°38 |
| M21 | 19 55 29 | 28°26'56 | 28°35 | 16°14 | 23°43 | 9°41 | 24° 7 | 17° 5 | 12°56 | 10° 1 | 8°34 | 24°39 |
| T 22 | 19 59 25 | 29°24'12 | 29°32 | 22°33 | 25°19 | 10° 8 | 24°13 | 17° 7 | 12°57 | 10° 2 | 8°34 | 24°40 |
| W23 | 20 3 22 | 0♁21'29 | 0♁28 | 28°52 | 26°56 | 10°35 | 24°18 | 17° 9 | 12°57 | 10° 2 | 8°34 | 24°40 |
| T 24 | 20 7 18 | 1°18'46 | 1°24 | 5♂10 | 28°33 | 11° 2 | 24°24 | 17°10 | 12°58 | 10° 3 | 8°34 | 24°41 |
| F 25 | 20 11 15 | 2°16'05 | 2°20 | 11°24 | 0♁10 | 11°29 | 24°29 | 17°12 | 12°59 | 10° 3 | 8°34 | 24°42 |
| S 26 | 20 15 11 | 3°13'24 | 3°15 | 17°34 | 1°47 | 11°56 | 24°34 | 17°14 | 12°59 | 10° 3 | 8°35 | 24°42 |
| S 27 | 20 19 8 | 4°10'43 | 4°11 | 23°38 | 3°24 | 12°23 | 24°40 | 17°16 | 13° 0 | 10° 4 | 8°35 | 24°43 |
| M28 | 20 23 4 | 5° 8'03 | 5° 6 | 29°35 | 5° 1 | 12°51 | 24°45 | 17°18 | 13° 1 | 10° 4 | 8°35 | 24°43 |
| T 29 | 20 27 1 | 6° 5'24 | 6° 2 | 5♂25 | 6°38 | 13°18 | 24°50 | 17°19 | 13° 1 | 10° 4 | 8°35 | 24°44 |
| W30 | 20 30 58 | 7° 2'45 | 6°58 | 11° 6 | 8°15 | 13°45 | 24°56 | 17°21 | 13° 2 | 10° 5 | 8°35 | 24°45 |
| T 31 | 20 34 54 | 8♁ 0'07 | 7♁54 | 16♂37 | 9♁52 | 14♁12 | 25♂ 1 | 17♁23 | 13♁ 3 | 10♁ 5 | 8♁36 | 24♃45 |

Delta T = 05m52s

AUGUST 2166

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| F 1 | 20 38 51 | 8♁57'29 | 8♁50 | 22♂ 0 | 11♁29 | 14♁39 | 25♂ 7 | 17♁25 | 13♁ 3 | 10♁ 5 | 8♁36 | 24♃46 |
| S 2 | 20 42 47 | 9°54'52 | 9°46 | 27°12 | 13° 6 | 15° 6 | 25°12 | 17°27 | 13° 4 | 10° 6 | 8°36 | 24°47 |
| S 3 | 20 46 44 | 10°52'16 | 10°43 | 2♃15 | 14°43 | 15°34 | 25°17 | 17°28 | 13° 5 | 10° 6 | 8°36 | 24°47 |
| M 4 | 20 50 40 | 11°49'40 | 11°41 | 7° 9 | 16°21 | 16° 1 | 25°23 | 17°30 | 13° 5 | 10° 6 | 8°36 | 24°48 |
| T 5 | 20 54 37 | 12°47'04 | 12°38 | 11°53 | 17°58 | 16°28 | 25°28 | 17°32 | 13° 6 | 10° 7 | 8°36 | 24°48 |
| W 6 | 20 58 33 | 13°44'29 | 13°36 | 16°27 | 19°35 | 16°55 | 25°34 | 17°34 | 13° 7 | 10° 7 | 8°37 | 24°49 |
| T 7 | 21 2 30 | 14°41'55 | 14°34 | 20°53 | 21°12 | 17°23 | 25°39 | 17°36 | 13° 7 | 10° 8 | 8°37 | 24°50 |
| F 8 | 21 6 27 | 15°39'22 | 15°33 | 25°11 | 22°49 | 17°50 | 25°44 | 17°37 | 13° 8 | 10° 8 | 8°37 | 24°50 |
| S 9 | 21 10 23 | 16°36'49 | 16°32 | 29°20 | 24°27 | 18°17 | 25°50 | 17°39 | 13° 9 | 10° 8 | 8°37 | 24°51 |
| S 10 | 21 14 20 | 17°34'17 | 17°31 | 3♁22 | 26° 4 | 18°45 | 25°55 | 17°41 | 13° 9 | 10° 9 | 8°37 | 24°52 |
| M11 | 21 18 16 | 18°31'47 | 18°31 | 7°17 | 27°41 | 19°12 | 26° 1 | 17°43 | 13°10 | 10° 9 | 8°38 | 24°52 |
| T 12 | 21 22 13 | 19°29'17 | 19°30 | 11° 5 | 29°19 | 19°40 | 26° 6 | 17°45 | 13°11 | 10° 9 | 8°38 | 24°53 |
| W13 | 21 26 9 | 20°26'48 | 20°29 | 14°47 | 0♂56 | 20° 7 | 26°11 | 17°47 | 13°11 | 10°10 | 8°38 | 24°53 |
| T 14 | 21 30 6 | 21°24'20 | 21°29 | 18°22 | 2°33 | 20°35 | 26°17 | 17°48 | 13°12 | 10°10 | 8°38 | 24°54 |
| F 15 | 21 34 2 | 22°21'54 | 22°28 | 21°53 | 4°11 | 21° 2 | 26°22 | 17°50 | 13°13 | 10°10 | 8°38 | 24°55 |
| S 16 | 21 37 59 | 23°19'29 | 23°27 | 25°18 | 5°48 | 21°30 | 26°27 | 17°52 | 13°13 | 10°11 | 8°38 | 24°55 |
| S 17 | 21 41 56 | 24°17'05 | 24°25 | 28°38 | 7°26 | 21°58 | 26°33 | 17°54 | 13°14 | 10°11 | 8°39 | 24°56 |
| M18 | 21 45 52 | 25°14'43 | 25°23 | 1♂54 | 9° 3 | 22°25 | 26°38 | 17°56 | 13°15 | 10°12 | 8°39 | 24°57 |
| T 19 | 21 49 49 | 26°12'23 | 26°21 | 5° 6 | 10°41 | 22°53 | 26°44 | 17°57 | 13°15 | 10°12 | 8°39 | 24°57 |
| W20 | 21 53 45 | 27°10'04 | 27°18 | 8°15 | 12°18 | 23°21 | 26°49 | 17°59 | 13°16 | 10°12 | 8°39 | 24°58 |
| T 21 | 21 57 42 | 28° 7'47 | 28°15 | 11°20 | 13°56 | 23°48 | 26°54 | 18° 1 | 13°17 | 10°13 | 8°39 | 24°58 |
| F 22 | 22 1 38 | 29° 5'31 | 29°12 | 14°22 | 15°33 | 24°16 | 27° 0 | 18° 3 | 13°17 | 10°13 | 8°40 | 24°59 |
| S 23 | 22 5 35 | 0♃ 3'17 | 0♃ 8 | 17°21 | 17°11 | 24°44 | 27° 5 | 18° 5 | 13°18 | 10°13 | 8°40 | 25° 0 |
| S 24 | 22 9 31 | 1° 1'04 | 1° 4 | 20°17 | 18°48 | 25°12 | 27°11 | 18° 6 | 13°19 | 10°14 | 8°40 | 25° 0 |
| M25 | 22 13 28 | 1°58'53 | 2° 0 | 23°12 | 20°26 | 25°40 | 27°16 | 18° 8 | 13°19 | 10°14 | 8°40 | 25° 1 |
| T 26 | 22 17 25 | 2°56'43 | 2°56 | 26° 4 | 22° 3 | 26° 8 | 27°21 | 18°10 | 13°20 | 10°14 | 8°40 | 25° 2 |
| W27 | 22 21 21 | 3°54'35 | 3°52 | 28°55 | 23°41 | 26°36 | 27°27 | 18°12 | 13°21 | 10°15 | 8°40 | 25° 2 |
| T 28 | 22 25 18 | 4°52'28 | 4°48 | 1♁44 | 25°18 | 27° 4 | 27°32 | 18°14 | 13°21 | 10°15 | 8°41 | 25° 3 |
| F 29 | 22 29 14 | 5°50'22 | 5°45 | 4°32 | 26°56 | 27°32 | 27°37 | 18°15 | 13°22 | 10°15 | 8°41 | 25° 3 |
| S 30 | 22 33 11 | 6°48'18 | 6°41 | 7°19 | 28°33 | 28° 0 | 27°43 | 18°17 | 13°22 | 10°16 | 8°41 | 25° 4 |
| S 31 | 22 37 7 | 7♃46'15 | 7♃38 | 10♁ 5 | 0♃11 | 28♁28 | 27♂48 | 18♁19 | 13♁23 | 10♁16 | 8♁41 | 25♃ 5 |

Delta T = 05m52s

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SWISS EPHEMERIS for the year 2166
heliocentric

SEPTEMBER 2166

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| M 1 | 22 41 4 | 8°44'13 | 8°36 | 12°50 | 1°48 | 28°56 | 27°54 | 18°21 | 13°24 | 10°17 | 8°42 | 25°5 |
| T 2 | 22 45 0 | 9°42'13 | 9°33 | 15°35 | 3°26 | 29°24 | 27°59 | 18°23 | 13°24 | 10°17 | 8°42 | 25°6 |
| W 3 | 22 48 57 | 10°40'14 | 10°31 | 18°19 | 5°3 | 29°52 | 28°4 | 18°25 | 13°25 | 10°17 | 8°42 | 25°7 |
| T 4 | 22 52 54 | 11°38'17 | 11°30 | 21°4 | 6°41 | 0°20 | 28°10 | 18°26 | 13°26 | 10°18 | 8°42 | 25°7 |
| F 5 | 22 56 50 | 12°36'20 | 12°28 | 23°49 | 8°18 | 0°49 | 28°15 | 18°28 | 13°26 | 10°18 | 8°42 | 25°8 |
| S 6 | 23 0 47 | 13°34'26 | 13°28 | 26°34 | 9°56 | 1°17 | 28°20 | 18°30 | 13°27 | 10°18 | 8°42 | 25°8 |
| S 7 | 23 4 43 | 14°32'32 | 14°27 | 29°20 | 11°33 | 1°45 | 28°26 | 18°32 | 13°28 | 10°19 | 8°42 | 25°9 |
| M 8 | 23 8 40 | 15°30'41 | 15°27 | 2°7 | 13°10 | 2°13 | 28°31 | 18°34 | 13°28 | 10°19 | 8°43 | 25°10 |
| T 9 | 23 12 36 | 16°28'50 | 16°27 | 4°54 | 14°48 | 2°42 | 28°37 | 18°35 | 13°29 | 10°19 | 8°43 | 25°10 |
| W10 | 23 16 33 | 17°27'01 | 17°27 | 7°43 | 16°25 | 3°10 | 28°42 | 18°37 | 13°30 | 10°20 | 8°43 | 25°11 |
| T 11 | 23 20 29 | 18°25'14 | 18°27 | 10°34 | 18°3 | 3°39 | 28°47 | 18°39 | 13°30 | 10°20 | 8°43 | 25°12 |
| F 12 | 23 24 26 | 19°23'29 | 19°27 | 13°26 | 19°40 | 4°7 | 28°53 | 18°41 | 13°31 | 10°21 | 8°43 | 25°12 |
| S 13 | 23 28 22 | 20°21'46 | 20°27 | 16°20 | 21°17 | 4°36 | 28°58 | 18°43 | 13°32 | 10°21 | 8°44 | 25°13 |
| S 14 | 23 32 19 | 21°20'05 | 21°27 | 19°16 | 22°55 | 5°4 | 29°3 | 18°44 | 13°32 | 10°21 | 8°44 | 25°13 |
| M15 | 23 36 16 | 22°18'26 | 22°26 | 22°14 | 24°32 | 5°33 | 29°9 | 18°46 | 13°33 | 10°22 | 8°44 | 25°14 |
| T 16 | 23 40 12 | 23°16'49 | 23°25 | 25°15 | 26°9 | 6°2 | 29°14 | 18°48 | 13°34 | 10°22 | 8°44 | 25°15 |
| W17 | 23 44 9 | 24°15'14 | 24°24 | 28°19 | 27°46 | 6°30 | 29°19 | 18°50 | 13°34 | 10°22 | 8°44 | 25°15 |
| T 18 | 23 48 5 | 25°13'42 | 25°22 | 1°26 | 29°24 | 6°59 | 29°25 | 18°52 | 13°35 | 10°23 | 8°44 | 25°16 |
| F 19 | 23 52 2 | 26°12'11 | 26°20 | 4°36 | 1°1 | 7°28 | 29°30 | 18°53 | 13°36 | 10°23 | 8°45 | 25°16 |
| S 20 | 23 55 58 | 27°10'43 | 27°17 | 7°50 | 2°38 | 7°57 | 29°36 | 18°55 | 13°36 | 10°23 | 8°45 | 25°17 |
| S 21 | 23 59 55 | 28°9'17 | 28°15 | 11°8 | 4°15 | 8°26 | 29°41 | 18°57 | 13°37 | 10°24 | 8°45 | 25°18 |
| M22 | 0 3 51 | 29°7'53 | 29°12 | 14°31 | 5°52 | 8°55 | 29°46 | 18°59 | 13°38 | 10°24 | 8°45 | 25°18 |
| T 23 | 0 7 48 | 0°6'30 | 0°9 | 17°58 | 7°29 | 9°23 | 29°52 | 19°1 | 13°38 | 10°24 | 8°45 | 25°19 |
| W24 | 0 11 45 | 1°5'10 | 1°6 | 21°30 | 9°6 | 9°52 | 29°57 | 19°3 | 13°39 | 10°25 | 8°46 | 25°20 |
| T 25 | 0 15 41 | 2°3'52 | 2°3 | 25°7 | 10°43 | 10°21 | 0°2 | 19°4 | 13°40 | 10°25 | 8°46 | 25°20 |
| F 26 | 0 19 38 | 3°2'35 | 3°0 | 28°50 | 12°20 | 10°51 | 0°8 | 19°6 | 13°40 | 10°26 | 8°46 | 25°21 |
| S 27 | 0 23 34 | 4°1'21 | 3°57 | 2°39 | 13°57 | 11°20 | 0°13 | 19°8 | 13°41 | 10°26 | 8°46 | 25°21 |
| S 28 | 0 27 31 | 5°0'08 | 4°54 | 6°35 | 15°34 | 11°49 | 0°18 | 19°10 | 13°42 | 10°26 | 8°46 | 25°22 |
| M29 | 0 31 27 | 5°58'58 | 5°52 | 10°37 | 17°11 | 12°18 | 0°24 | 19°12 | 13°42 | 10°27 | 8°46 | 25°23 |
| T 30 | 0 35 24 | 6°57'49 | 6°50 | 14°46 | 18°47 | 12°47 | 0°29 | 19°13 | 13°43 | 10°27 | 8°47 | 25°23 |

Delta T = 05m52s

OCTOBER 2166

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|---------|----------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|
| W 1 | 0 39 20 | 7°56'42 | 7°48 | 19°3 | 20°24 | 13°17 | 0°35 | 19°15 | 13°44 | 10°27 | 8°47 | 25°24 |
| T 2 | 0 43 17 | 8°55'36 | 8°47 | 23°28 | 22°1 | 13°46 | 0°40 | 19°17 | 13°44 | 10°28 | 8°47 | 25°25 |
| F 3 | 0 47 14 | 9°54'33 | 9°46 | 28°1 | 23°38 | 14°15 | 0°45 | 19°19 | 13°45 | 10°28 | 8°47 | 25°25 |
| S 4 | 0 51 10 | 10°53'31 | 10°45 | 2°43 | 25°14 | 14°45 | 0°51 | 19°21 | 13°45 | 10°28 | 8°47 | 25°26 |
| S 5 | 0 55 7 | 11°52'31 | 11°45 | 7°33 | 26°51 | 15°14 | 0°56 | 19°22 | 13°46 | 10°29 | 8°48 | 25°26 |
| M 6 | 0 59 3 | 12°51'32 | 12°45 | 12°32 | 28°27 | 15°44 | 1°1 | 19°24 | 13°47 | 10°29 | 8°48 | 25°27 |
| T 7 | 1 3 0 | 13°50'36 | 13°46 | 17°41 | 0°4 | 16°13 | 1°7 | 19°26 | 13°47 | 10°30 | 8°48 | 25°28 |
| W 8 | 1 6 56 | 14°49'41 | 14°47 | 22°58 | 1°40 | 16°43 | 1°12 | 19°28 | 13°48 | 10°30 | 8°48 | 25°28 |
| T 9 | 1 10 53 | 15°48'48 | 15°48 | 28°25 | 3°17 | 17°12 | 1°17 | 19°30 | 13°49 | 10°30 | 8°48 | 25°29 |
| F 10 | 1 14 49 | 16°47'57 | 16°49 | 4°1 | 4°53 | 17°42 | 1°23 | 19°31 | 13°49 | 10°31 | 8°48 | 25°30 |
| S 11 | 1 18 46 | 17°47'08 | 17°50 | 9°45 | 6°29 | 18°12 | 1°28 | 19°33 | 13°50 | 10°31 | 8°49 | 25°30 |
| S 12 | 1 22 42 | 18°46'21 | 18°51 | 15°37 | 8°5 | 18°42 | 1°34 | 19°35 | 13°51 | 10°31 | 8°49 | 25°31 |
| M13 | 1 26 39 | 19°45'37 | 19°52 | 21°36 | 9°42 | 19°11 | 1°39 | 19°37 | 13°51 | 10°32 | 8°49 | 25°31 |
| T 14 | 1 30 36 | 20°44'55 | 20°53 | 27°41 | 11°18 | 19°41 | 1°44 | 19°39 | 13°52 | 10°32 | 8°49 | 25°32 |
| W15 | 1 34 32 | 21°44'15 | 21°53 | 3°52 | 12°54 | 20°11 | 1°50 | 19°41 | 13°53 | 10°32 | 8°49 | 25°33 |
| T 16 | 1 38 29 | 22°43'38 | 22°52 | 10°8 | 14°30 | 20°41 | 1°55 | 19°42 | 13°53 | 10°33 | 8°50 | 25°33 |
| F 17 | 1 42 25 | 23°43'03 | 23°52 | 16°26 | 16°6 | 21°11 | 2°0 | 19°44 | 13°54 | 10°33 | 8°50 | 25°34 |
| S 18 | 1 46 22 | 24°42'30 | 24°51 | 22°45 | 17°42 | 21°41 | 2°6 | 19°46 | 13°55 | 10°33 | 8°50 | 25°35 |
| S 19 | 1 50 18 | 25°41'59 | 25°50 | 29°4 | 19°18 | 22°11 | 2°11 | 19°48 | 13°55 | 10°34 | 8°50 | 25°35 |
| M20 | 1 54 15 | 26°41'31 | 26°48 | 5°21 | 20°54 | 22°42 | 2°16 | 19°50 | 13°56 | 10°34 | 8°50 | 25°36 |
| T 21 | 1 58 11 | 27°41'05 | 27°46 | 11°36 | 22°30 | 23°12 | 2°22 | 19°51 | 13°57 | 10°35 | 8°50 | 25°36 |
| W22 | 2 2 8 | 28°40'41 | 28°44 | 17°46 | 24°6 | 23°42 | 2°27 | 19°53 | 13°57 | 10°35 | 8°51 | 25°37 |
| T 23 | 2 6 5 | 29°40'19 | 29°42 | 23°49 | 25°41 | 24°12 | 2°32 | 19°55 | 13°58 | 10°35 | 8°51 | 25°38 |
| F 24 | 2 10 1 | 0°39'59 | 0°40 | 29°46 | 27°17 | 24°43 | 2°38 | 19°57 | 13°59 | 10°36 | 8°51 | 25°38 |
| S 25 | 2 13 58 | 1°39'42 | 1°38 | 5°36 | 28°53 | 25°13 | 2°43 | 19°59 | 13°59 | 10°36 | 8°51 | 25°39 |
| S 26 | 2 17 54 | 2°39'26 | 2°36 | 11°16 | 0°28 | 25°44 | 2°48 | 20°0 | 14°0 | 10°36 | 8°51 | 25°39 |
| M27 | 2 21 51 | 3°39'12 | 3°34 | 16°48 | 2°4 | 26°14 | 2°54 | 20°2 | 14°1 | 10°37 | 8°52 | 25°40 |
| T 28 | 2 25 47 | 4°39'00 | 4°33 | 22°10 | 3°40 | 26°45 | 2°59 | 20°4 | 14°1 | 10°37 | 8°52 | 25°41 |
| W29 | 2 29 44 | 5°38'50 | 5°31 | 27°22 | 5°15 | 27°15 | 3°4 | 20°6 | 14°2 | 10°37 | 8°52 | 25°41 |
| T 30 | 2 33 40 | 6°38'41 | 6°30 | 2°25 | 6°51 | 27°46 | 3°10 | 20°8 | 14°3 | 10°38 | 8°52 | 25°42 |
| F 31 | 2 37 37 | 7°38'34 | 7°30 | 7°18 | 8°26 | 28°17 | 3°15 | 20°10 | 14°3 | 10°38 | 8°52 | 25°43 |

Delta T = 05m52s

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SWISS EPHEMERIS for the year 2166
heliocentric

NOVEMBER 2166

00:00 UT

| Day | Sid.t | Terra | ☾ | ♁ | ♂ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
|------|---------|----------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|---|---|---|
| S 1 | 2 41 34 | 8♁38'29 | 8♁30 | 12♁ 1 | 10♁ 2 | 28♁47 | 3♁20 | 20♁11 | 14♁ 4 | 10♁38 | 8♁52 | 25♁43 | | | |
| S 2 | 2 45 30 | 9°38'25 | 9°30 | 16°36 | 11°37 | 29°18 | 3°26 | 20°13 | 14° 5 | 10°39 | 8°53 | 25°44 | | | |
| M 3 | 2 49 27 | 10°38'23 | 10°31 | 21° 2 | 13°12 | 29°49 | 3°31 | 20°15 | 14° 5 | 10°39 | 8°53 | 25°44 | | | |
| T 4 | 2 53 23 | 11°38'23 | 11°32 | 25°19 | 14°48 | 0♁20 | 3°37 | 20°17 | 14° 6 | 10°40 | 8°53 | 25°45 | | | |
| W 5 | 2 57 20 | 12°38'24 | 12°33 | 29°28 | 16°23 | 0°51 | 3°42 | 20°19 | 14° 7 | 10°40 | 8°53 | 25°46 | | | |
| T 6 | 3 1 16 | 13°38'27 | 13°35 | 3♁30 | 17°58 | 1°22 | 3°47 | 20°20 | 14° 7 | 10°40 | 8°53 | 25°46 | | | |
| F 7 | 3 5 13 | 14°38'31 | 14°37 | 7°24 | 19°33 | 1°53 | 3°53 | 20°22 | 14° 8 | 10°41 | 8°54 | 25°47 | | | |
| S 8 | 3 9 9 | 15°38'37 | 15°39 | 11°12 | 21° 9 | 2°24 | 3°58 | 20°24 | 14° 8 | 10°41 | 8°54 | 25°48 | | | |
| S 9 | 3 13 6 | 16°38'46 | 16°41 | 14°54 | 22°44 | 2°55 | 4° 3 | 20°26 | 14° 9 | 10°41 | 8°54 | 25°48 | | | |
| M10 | 3 17 3 | 17°38'56 | 17°43 | 18°29 | 24°19 | 3°27 | 4° 9 | 20°28 | 14°10 | 10°42 | 8°54 | 25°49 | | | |
| T 11 | 3 20 59 | 18°39'08 | 18°45 | 21°59 | 25°54 | 3°58 | 4°14 | 20°29 | 14°10 | 10°42 | 8°54 | 25°49 | | | |
| W12 | 3 24 56 | 19°39'22 | 19°47 | 25°24 | 27°29 | 4°29 | 4°19 | 20°31 | 14°11 | 10°42 | 8°55 | 25°50 | | | |
| T 13 | 3 28 52 | 20°39'38 | 20°48 | 28°45 | 29° 4 | 5° 1 | 4°25 | 20°33 | 14°12 | 10°43 | 8°55 | 25°51 | | | |
| F 14 | 3 32 49 | 21°39'56 | 21°49 | 2♁ 1 | 0♁39 | 5°32 | 4°30 | 20°35 | 14°12 | 10°43 | 8°55 | 25°51 | | | |
| S 15 | 3 36 45 | 22°40'16 | 22°49 | 5°12 | 2°14 | 6° 4 | 4°35 | 20°37 | 14°13 | 10°44 | 8°55 | 25°52 | | | |
| S 16 | 3 40 42 | 23°40'38 | 23°50 | 8°21 | 3°49 | 6°35 | 4°41 | 20°38 | 14°14 | 10°44 | 8°55 | 25°53 | | | |
| M17 | 3 44 38 | 24°41'02 | 24°49 | 11°26 | 5°24 | 7° 7 | 4°46 | 20°40 | 14°14 | 10°44 | 8°55 | 25°53 | | | |
| T 18 | 3 48 35 | 25°41'27 | 25°49 | 14°27 | 6°59 | 7°39 | 4°51 | 20°42 | 14°15 | 10°45 | 8°56 | 25°54 | | | |
| W19 | 3 52 32 | 26°41'55 | 26°48 | 17°26 | 8°34 | 8°10 | 4°57 | 20°44 | 14°16 | 10°45 | 8°56 | 25°54 | | | |
| T 20 | 3 56 28 | 27°42'24 | 27°47 | 20°23 | 10° 9 | 8°42 | 5° 2 | 20°46 | 14°16 | 10°45 | 8°56 | 25°55 | | | |
| F 21 | 4 0 25 | 28°42'55 | 28°46 | 23°17 | 11°44 | 9°14 | 5° 7 | 20°48 | 14°17 | 10°46 | 8°56 | 25°56 | | | |
| S 22 | 4 4 21 | 29°43'28 | 29°45 | 26°10 | 13°19 | 9°46 | 5°13 | 20°49 | 14°18 | 10°46 | 8°56 | 25°56 | | | |
| S 23 | 4 8 18 | 0♁44'02 | 0♁44 | 29° 0 | 14°54 | 10°18 | 5°18 | 20°51 | 14°18 | 10°46 | 8°57 | 25°57 | | | |
| M24 | 4 12 14 | 1°44'38 | 1°42 | 1♁49 | 16°29 | 10°50 | 5°23 | 20°53 | 14°19 | 10°47 | 8°57 | 25°57 | | | |
| T 25 | 4 16 11 | 2°45'15 | 2°41 | 4°37 | 18° 4 | 11°22 | 5°29 | 20°55 | 14°20 | 10°47 | 8°57 | 25°58 | | | |
| W26 | 4 20 7 | 3°45'54 | 3°41 | 7°24 | 19°39 | 11°54 | 5°34 | 20°57 | 14°20 | 10°47 | 8°57 | 25°59 | | | |
| T 27 | 4 24 4 | 4°46'33 | 4°40 | 10°10 | 21°14 | 12°26 | 5°39 | 20°58 | 14°21 | 10°48 | 8°57 | 25°59 | | | |
| F 28 | 4 28 1 | 5°47'14 | 5°39 | 12°55 | 22°49 | 12°58 | 5°45 | 21° 0 | 14°22 | 10°48 | 8°57 | 26° 0 | | | |
| S 29 | 4 31 57 | 6°47'56 | 6°39 | 15°40 | 24°24 | 13°31 | 5°50 | 21° 2 | 14°22 | 10°49 | 8°58 | 26° 1 | | | |
| S 30 | 4 35 54 | 7♁48'39 | 7♁40 | 18♁25 | 25♁58 | 14♁ 3 | 5♁55 | 21♁ 4 | 14♁23 | 10♁49 | 8♁58 | 26♁ 1 | | | |

Delta T = 05m52s

DECEMBER 2166

00:00 UT

| Day | Sid.t | Terra | ☾ | ♁ | ♂ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
|------|---------|----------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|---|---|---|
| M 1 | 4 39 50 | 8♁49'23 | 8♁41 | 21♁ 9 | 27♁33 | 14♁35 | 6♁ 1 | 21♁ 6 | 14♁24 | 10♁49 | 8♁58 | 26♁ 2 | | | |
| T 2 | 4 43 47 | 9°50'08 | 9°42 | 23°54 | 29° 8 | 15° 8 | 6° 6 | 21° 7 | 14°24 | 10°50 | 8°58 | 26° 2 | | | |
| W 3 | 4 47 43 | 10°50'54 | 10°44 | 26°40 | 0♁43 | 15°40 | 6°11 | 21° 9 | 14°25 | 10°50 | 8°58 | 26° 3 | | | |
| T 4 | 4 51 40 | 11°51'41 | 11°46 | 29°25 | 2°18 | 16°13 | 6°17 | 21°11 | 14°26 | 10°50 | 8°59 | 26° 4 | | | |
| F 5 | 4 55 36 | 12°52'29 | 12°48 | 2♁12 | 3°53 | 16°45 | 6°22 | 21°13 | 14°26 | 10°51 | 8°59 | 26° 4 | | | |
| S 6 | 4 59 33 | 13°53'18 | 13°51 | 5° 0 | 5°28 | 17°18 | 6°27 | 21°15 | 14°27 | 10°51 | 8°59 | 26° 5 | | | |
| S 7 | 5 3 30 | 14°54'08 | 14°54 | 7°49 | 7° 3 | 17°51 | 6°33 | 21°17 | 14°28 | 10°51 | 8°59 | 26° 6 | | | |
| M 8 | 5 7 26 | 15°54'59 | 15°57 | 10°39 | 8°38 | 18°24 | 6°38 | 21°18 | 14°28 | 10°52 | 8°59 | 26° 6 | | | |
| T 9 | 5 11 23 | 16°55'51 | 16°59 | 13°31 | 10°12 | 18°57 | 6°43 | 21°20 | 14°29 | 10°52 | 8°59 | 26° 7 | | | |
| W10 | 5 15 19 | 17°56'44 | 18° 2 | 16°25 | 11°47 | 19°29 | 6°48 | 21°22 | 14°30 | 10°53 | 9° 0 | 26° 7 | | | |
| T 11 | 5 19 16 | 18°57'39 | 19° 4 | 19°21 | 13°22 | 20° 2 | 6°54 | 21°24 | 14°30 | 10°53 | 9° 0 | 26° 8 | | | |
| F 12 | 5 23 12 | 19°58'34 | 20° 7 | 22°20 | 14°57 | 20°35 | 6°59 | 21°26 | 14°31 | 10°53 | 9° 0 | 26° 9 | | | |
| S 13 | 5 27 9 | 20°59'31 | 21° 8 | 25°21 | 16°32 | 21° 9 | 7° 4 | 21°27 | 14°31 | 10°54 | 9° 0 | 26° 9 | | | |
| S 14 | 5 31 5 | 22° 0'29 | 22°10 | 28°25 | 18° 7 | 21°42 | 7°10 | 21°29 | 14°32 | 10°54 | 9° 0 | 26°10 | | | |
| M15 | 5 35 2 | 23° 1'28 | 23°11 | 1♁32 | 19°42 | 22°15 | 7°15 | 21°31 | 14°33 | 10°54 | 9° 1 | 26°11 | | | |
| T 16 | 5 38 59 | 24° 2'28 | 24°11 | 4°42 | 21°17 | 22°48 | 7°20 | 21°33 | 14°33 | 10°55 | 9° 1 | 26°11 | | | |
| W17 | 5 42 55 | 25° 3'29 | 25°12 | 7°56 | 22°52 | 23°21 | 7°26 | 21°35 | 14°34 | 10°55 | 9° 1 | 26°12 | | | |
| T 18 | 5 46 52 | 26° 4'32 | 26°12 | 11°15 | 24°27 | 23°55 | 7°31 | 21°37 | 14°35 | 10°55 | 9° 1 | 26°12 | | | |
| F 19 | 5 50 48 | 27° 5'35 | 27°12 | 14°37 | 26° 2 | 24°28 | 7°36 | 21°38 | 14°35 | 10°56 | 9° 1 | 26°13 | | | |
| S 20 | 5 54 45 | 28° 6'39 | 28°11 | 18° 4 | 27°37 | 25° 2 | 7°42 | 21°40 | 14°36 | 10°56 | 9° 1 | 26°14 | | | |
| S 21 | 5 58 41 | 29° 7'44 | 29°11 | 21°37 | 29°12 | 25°35 | 7°47 | 21°42 | 14°37 | 10°57 | 9° 2 | 26°14 | | | |
| M22 | 6 2 38 | 0♁ 8'49 | 0♁10 | 25°14 | 0♁47 | 26° 9 | 7°52 | 21°44 | 14°37 | 10°57 | 9° 2 | 26°15 | | | |
| T 23 | 6 6 34 | 1° 9'55 | 1° 9 | 28°57 | 2°22 | 26°43 | 7°58 | 21°46 | 14°38 | 10°57 | 9° 2 | 26°15 | | | |
| W24 | 6 10 31 | 2°11'02 | 2° 8 | 2♁46 | 3°57 | 27°16 | 8° 3 | 21°47 | 14°39 | 10°58 | 9° 2 | 26°16 | | | |
| T 25 | 6 14 28 | 3°12'09 | 3° 8 | 6°42 | 5°32 | 27°50 | 8° 8 | 21°49 | 14°39 | 10°58 | 9° 2 | 26°17 | | | |
| F 26 | 6 18 24 | 4°13'16 | 4° 7 | 10°45 | 7° 7 | 28°24 | 8°14 | 21°51 | 14°40 | 10°58 | 9° 3 | 26°17 | | | |
| S 27 | 6 22 21 | 5°14'24 | 5° 7 | 14°54 | 8°42 | 28°58 | 8°19 | 21°53 | 14°41 | 10°59 | 9° 3 | 26°18 | | | |
| S 28 | 6 26 17 | 6°15'32 | 6° 8 | 19°11 | 10°18 | 29°32 | 8°24 | 21°55 | 14°41 | 10°59 | 9° 3 | 26°19 | | | |
| M29 | 6 30 14 | 7°16'40 | 7° 8 | 23°37 | 11°53 | 0♁ 6 | 8°30 | 21°56 | 14°42 | 10°59 | 9° 3 | 26°19 | | | |
| T 30 | 6 34 10 | 8°17'47 | 8° 9 | 28°10 | 13°28 | 0°40 | 8°35 | 21°58 | 14°43 | 11° 0 | 9° 3 | 26°20 | | | |
| W31 | 6 38 7 | 9♁18'55 | 9♁11 | 2♁52 | 15♁ 3 | 1♁14 | 8♁40 | 22♁ 0 | 14♁43 | 11♁ 0 | 9♁ 4 | 26♁20 | | | |

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