



Astrodienst Ephemeris Tables for the year 1407

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code D5EPH

ASTRODIENST EPHEMERIS for the year 1407

geocentric

JANUARY 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|--------|--------|------|
| S 1 | 7 13 54 | 19°04'2 | 14°36 | 5°37 | 22°10 | 19°59 | 21°0 | 14°5 | 18°39 | 20°R48 | 10°R44 | 15°D 9 | 13°II52 | 15°19 | 27°R 5 | S 1 |
| S 2 | 7 17 50 | 20°1'47 | 26°56 | 6°39 | 23°24 | 20°43 | 21°5 | 14°10 | 18°42 | 20°II47 | 10°II44 | 15°II 9 | 13°49 | 15°16 | 27°1 | S 2 |
| M 3 | 7 21 47 | 21°2'53 | 9°0 | 8°11 | 24°39 | 21°27 | 21°11 | 14°16 | 18°46 | 20°45 | 10°43 | 15°10 | 13°46 | 15°23 | 26°57 | M 3 |
| T 4 | 7 25 44 | 22°3'58 | 20°54 | 9°44 | 25°54 | 22°11 | 21°16 | 14°21 | 18°49 | 20°44 | 10°42 | 15°12 | 13°42 | 15°29 | 26°52 | T 4 |
| W 5 | 7 29 40 | 23°5'02 | 2°41 | 11°18 | 27°8 | 22°55 | 21°22 | 14°27 | 18°53 | 20°43 | 10°41 | 15°13 | 13°39 | 15°36 | 26°48 | W 5 |
| T 6 | 7 33 37 | 24°6'07 | 14°27 | 12°52 | 28°23 | 23°39 | 21°27 | 14°32 | 18°56 | 20°41 | 10°40 | 15°R14 | 13°36 | 15°42 | 26°43 | T 6 |
| F 7 | 7 37 33 | 25°7'10 | 26°15 | 14°27 | 29°38 | 24°23 | 21°33 | 14°38 | 19°0 | 20°40 | 10°39 | 15°13 | 13°33 | 15°49 | 26°39 | F 7 |
| S 8 | 7 41 30 | 26°8'13 | 8°39 | 16°2 | 0°52 | 25°7 | 21°40 | 14°44 | 19°3 | 20°39 | 10°39 | 15°11 | 13°30 | 15°56 | 26°34 | S 8 |
| S 9 | 7 45 26 | 27°9'15 | 20°11 | 17°38 | 2°7 | 25°52 | 21°46 | 14°50 | 19°7 | 20°37 | 10°38 | 15°6 | 13°27 | 16°2 | 26°29 | S 9 |
| M10 | 7 49 23 | 28°10'16 | 2°23 | 19°14 | 3°22 | 26°36 | 21°52 | 14°55 | 19°10 | 20°36 | 10°37 | 14°59 | 13°23 | 16°9 | 26°25 | M10 |
| T 11 | 7 53 20 | 29°11'16 | 14°46 | 20°52 | 4°37 | 27°20 | 21°59 | 15°1 | 19°14 | 20°35 | 10°36 | 14°51 | 13°20 | 16°16 | 26°20 | T 11 |
| W12 | 7 57 16 | 0°12'15 | 27°21 | 22°29 | 5°51 | 28°5 | 22°6 | 15°7 | 19°17 | 20°33 | 10°36 | 14°42 | 13°17 | 16°22 | 26°16 | W12 |
| T 13 | 8 1 13 | 1°13'13 | 10°8 | 24°8 | 7°6 | 28°49 | 22°13 | 15°13 | 19°21 | 20°32 | 10°35 | 14°34 | 13°14 | 16°29 | 26°11 | T 13 |
| F 14 | 8 5 9 | 2°14'10 | 23°7 | 25°47 | 8°21 | 29°34 | 22°20 | 15°19 | 19°24 | 20°31 | 10°34 | 14°27 | 13°11 | 16°36 | 26°7 | F 14 |
| S 15 | 8 9 6 | 3°15'05 | 6°19 | 27°27 | 9°35 | 0°18 | 22°27 | 15°26 | 19°28 | 20°30 | 10°34 | 14°21 | 13°7 | 16°42 | 26°2 | S 15 |
| S 16 | 8 13 2 | 4°15'59 | 19°44 | 29°8 | 10°50 | 1°3 | 22°35 | 15°32 | 19°31 | 20°29 | 10°33 | 14°18 | 13°4 | 16°49 | 25°58 | S 16 |
| M17 | 8 16 59 | 5°16'52 | 3°25 | 0°49 | 12°5 | 1°47 | 22°42 | 15°38 | 19°35 | 20°28 | 10°32 | 14°D17 | 13°1 | 16°56 | 25°53 | M17 |
| T 18 | 8 20 55 | 6°17'43 | 17°20 | 2°31 | 13°20 | 2°32 | 22°50 | 15°44 | 19°38 | 20°27 | 10°32 | 14°17 | 12°58 | 17°2 | 25°49 | T 18 |
| W19 | 8 24 52 | 7°18'33 | 1°11 | 4°14 | 14°34 | 3°16 | 22°58 | 15°51 | 19°42 | 20°26 | 10°31 | 14°18 | 12°55 | 17°9 | 25°45 | W19 |
| T 20 | 8 28 49 | 8°19'21 | 15°57 | 5°57 | 15°49 | 4°1 | 23°6 | 15°57 | 19°45 | 20°24 | 10°31 | 14°R19 | 12°52 | 17°16 | 25°40 | T 20 |
| F 21 | 8 32 45 | 9°20'08 | 0°34 | 7°41 | 17°4 | 4°46 | 23°14 | 16°4 | 19°49 | 20°23 | 10°30 | 14°18 | 12°48 | 17°22 | 25°36 | F 21 |
| S 22 | 8 36 42 | 10°20'53 | 15°18 | 9°27 | 18°18 | 5°30 | 23°23 | 16°10 | 19°52 | 20°22 | 10°30 | 14°14 | 12°45 | 17°29 | 25°31 | S 22 |
| S 23 | 8 40 38 | 11°21'37 | 0°2 | 11°12 | 19°33 | 6°15 | 23°31 | 16°17 | 19°55 | 20°22 | 10°29 | 14°8 | 12°42 | 17°35 | 25°27 | S 23 |
| M24 | 8 44 35 | 12°22'20 | 14°39 | 12°59 | 20°48 | 7°0 | 23°40 | 16°23 | 19°59 | 20°21 | 10°29 | 14°0 | 12°39 | 17°42 | 25°23 | M24 |
| T 25 | 8 48 31 | 13°23'00 | 29°2 | 14°46 | 22°3 | 7°45 | 23°48 | 16°30 | 20°2 | 20°20 | 10°28 | 13°50 | 12°36 | 17°49 | 25°19 | T 25 |
| W26 | 8 52 28 | 14°23'40 | 13°4 | 16°34 | 23°17 | 8°29 | 23°57 | 16°37 | 20°5 | 20°19 | 10°28 | 13°40 | 12°33 | 17°55 | 25°15 | W26 |
| T 27 | 8 56 24 | 15°24'18 | 26°41 | 18°23 | 24°32 | 9°14 | 24°6 | 16°43 | 20°9 | 20°18 | 10°27 | 13°30 | 12°29 | 18°2 | 25°10 | T 27 |
| F 28 | 9 0 21 | 16°24'55 | 9°52 | 20°13 | 25°47 | 9°59 | 24°15 | 16°50 | 20°12 | 20°17 | 10°27 | 13°23 | 12°26 | 18°9 | 25°6 | F 28 |
| S 29 | 9 4 18 | 17°25'31 | 22°38 | 22°3 | 27°1 | 10°44 | 24°25 | 16°57 | 20°15 | 20°16 | 10°27 | 13°17 | 12°23 | 18°15 | 25°2 | S 29 |
| S 30 | 9 8 14 | 18°26'06 | 5°11 | 23°53 | 28°16 | 11°29 | 24°34 | 17°4 | 20°18 | 20°16 | 10°26 | 13°14 | 12°20 | 18°22 | 24°58 | S 30 |
| M31 | 9 12 11 | 19°26'39 | 17°11 | 25°44 | 29°31 | 12°14 | 24°44 | 17°11 | 20°22 | 20°15 | 10°26 | 13°D13 | 12°II17 | 18°129 | 24°54 | M31 |

Delta T = 07m42s

Julian Calendar 1 Jan. 1407 == Greg. Calendar 10 Jan. 1407

FEBRUARY 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|--------|--------|------|
| T 1 | 9 16 7 | 20°27'11 | 29°11 | 27°36 | 0°45 | 12°59 | 24°53 | 17°18 | 20°25 | 20°R14 | 10°R26 | 13°II13 | 12°II13 | 18°135 | 24°R50 | T 1 |
| W 2 | 9 20 4 | 21°27'42 | 10°51 | 29°27 | 2°0 | 13°44 | 25°3 | 17°24 | 20°28 | 20°II14 | 10°II25 | 13°R14 | 12°10 | 18°42 | 24°47 | W 2 |
| T 3 | 9 24 0 | 22°28'11 | 22°37 | 1°19 | 3°15 | 14°29 | 25°13 | 17°31 | 20°31 | 20°13 | 10°25 | 13°13 | 12°7 | 18°49 | 24°43 | T 3 |
| F 4 | 9 27 57 | 23°28'39 | 4°38 | 3°10 | 4°30 | 15°14 | 25°23 | 17°38 | 20°34 | 20°12 | 10°25 | 13°11 | 12°4 | 18°55 | 24°39 | F 4 |
| S 5 | 9 31 53 | 24°29'06 | 16°27 | 5°1 | 5°44 | 15°59 | 25°33 | 17°46 | 20°37 | 20°12 | 10°24 | 13°6 | 12°1 | 19°2 | 24°35 | S 5 |
| S 6 | 9 35 50 | 25°29'31 | 28°38 | 6°52 | 6°59 | 16°45 | 25°43 | 17°53 | 20°40 | 20°11 | 10°24 | 12°59 | 11°58 | 19°8 | 24°32 | S 6 |
| M 7 | 9 39 47 | 26°29'54 | 11°2 | 8°42 | 8°14 | 17°30 | 25°54 | 18°0 | 20°43 | 20°11 | 10°24 | 12°48 | 11°54 | 19°15 | 24°28 | M 7 |
| T 8 | 9 43 43 | 27°30'16 | 23°42 | 10°30 | 9°28 | 18°15 | 26°4 | 18°7 | 20°46 | 20°10 | 10°24 | 12°36 | 11°51 | 19°22 | 24°25 | T 8 |
| W 9 | 9 47 40 | 28°30'36 | 6°37 | 12°17 | 10°43 | 19°0 | 26°15 | 18°14 | 20°49 | 20°10 | 10°24 | 12°23 | 11°48 | 19°28 | 24°21 | W 9 |
| T 10 | 9 51 36 | 29°30'54 | 19°46 | 14°1 | 11°58 | 19°45 | 26°26 | 18°21 | 20°52 | 20°10 | 10°24 | 12°10 | 11°45 | 19°35 | 24°18 | T 10 |
| F 11 | 9 55 33 | 0°31'10 | 3°17 | 15°43 | 13°12 | 20°31 | 26°36 | 18°28 | 20°55 | 20°9 | 10°24 | 11°59 | 11°42 | 19°42 | 24°15 | F 11 |
| S 12 | 9 59 29 | 1°31'25 | 16°39 | 17°22 | 14°27 | 21°16 | 26°47 | 18°36 | 20°58 | 20°9 | 10°24 | 11°50 | 11°38 | 19°48 | 24°12 | S 12 |
| S 13 | 10 3 26 | 2°31'37 | 0°20 | 18°57 | 15°42 | 22°1 | 26°58 | 18°43 | 21°1 | 20°9 | 10°23 | 11°44 | 11°35 | 19°55 | 24°9 | S 13 |
| M14 | 10 7 22 | 3°31'47 | 14°9 | 20°29 | 16°56 | 22°47 | 27°9 | 18°50 | 21°4 | 20°8 | 10°23 | 11°41 | 11°32 | 20°2 | 24°6 | M14 |
| T 15 | 10 11 19 | 4°31'55 | 28°5 | 21°55 | 18°11 | 23°32 | 27°21 | 18°58 | 21°7 | 20°8 | 10°D23 | 11°39 | 11°29 | 20°8 | 24°3 | T 15 |
| W16 | 10 15 16 | 5°32'01 | 12°II | 8 | 23°16 | 19°26 | 24°18 | 19°5 | 21°10 | 20°8 | 10°23 | 11°39 | 11°26 | 20°15 | 24°0 | W16 |
| T 17 | 10 19 12 | 6°32'05 | 26°17 | 24°31 | 20°40 | 25°3 | 27°43 | 19°12 | 21°12 | 20°8 | 10°23 | 11°39 | 11°23 | 20°22 | 23°57 | T 17 |
| F 18 | 10 23 9 | 7°32'07 | 10°32 | 25°40 | 21°55 | 25°48 | 27°55 | 19°20 | 21°15 | 20°8 | 10°24 | 11°37 | 11°19 | 20°28 | 23°54 | F 18 |
| S 19 | 10 27 5 | 8°32'06 | 24°50 | 26°42 | 23°9 | 26°34 | 28°6 | 19°27 | 21°18 | 20°8 | 10°24 | 11°32 | 11°16 | 20°35 | 23°52 | S 19 |
| S 20 | 10 31 2 | 9°32'04 | 9°2 | 27°36 | 24°24 | 27°19 | 28°18 | 19°34 | 21°20 | 20°8 | 10°24 | 11°25 | 11°13 | 20°42 | 23°49 | S 20 |
| M21 | 10 34 58 | 10°31'59 | 23°19 | 28°23 | 25°39 | 28°5 | 28°30 | 19°42 | 21°23 | 20°D 8 | 10°24 | 11°14 | 11°10 | 20°48 | 23°47 | M21 |
| T 22 | 10 38 55 | 11°31'52 | 7°11 | 29°1 | 26°53 | 28°50 | 28°41 | 19°49 | 21°26 | 20°8 | 10°24 | 11°2 | 11°7 | 20°55 | 23°44 | T 22 |
| W23 | 10 42 51 | 12°31'43 | 21°7 | 29°31 | 28°8 | 29°36 | 28°53 | 19°57 | 21°28 | 20°8 | 10°24 | 10°49 | 11°4 | 21°1 | 23°42 | W23 |
| T 24 | 10 46 48 | 13°31'32 | 4°34 | 29°52 | 29°22 | 0°21 | 29°5 | 20°4 | 21°31 | 20°8 | 10°24 | 10°37 | 11°0 | 21°8 | 23°40 | T 24 |
| F 25 | 10 50 44 | 14°31'19 | 17°40 | 0°17 | 0°37 | 1°7 | 29°17 | 20°12 | 21°33 | 20°8 | 10°25 | 10°27 | 10°57 | 21°15 | 23°38 | F 25 |
| S 26 | 10 54 41 | 15°31'05 | 0°11 | 0°R 9 | 1°51 | 1°53 | 29°30 | 20°19 | 21°36 | 20°8 | 10°25 | 10°19 | 10°54 | 21°21 | 23°36 | S 26 |
| S 27 | 10 58 38 | 16°30'48 | 12°48 | 0°4 | 3°6 | 2°38 | 29°42 | 20°26 | 21°38 | 20°8 | 10°25 | 10°14 | 10°51 | 21°28 | 23°34 | S 27 |
| M28 | 11 2 34 | 17°30'30 | 24°11 | 29°52 | 4°20 | 3°24 | 29°54 | 20°34 | 21°40 | 20°II 8 | 10°II25 | 10°II12 | 10°II48 | 21°135 | 23°32 | M28 |

Delta T = 07m42s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1407
geocentric

MARCH 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|--------|-------|-------|------|-------|-------|-------|-------|--------|-------|-------|--------|------|
| T 1 | 11 6 31 | 18♂30'10 | 6♂52 | 29°R31 | 5♂35 | 4♂10 | 0♂ 6 | 20♂41 | 21♂43 | 20♂ 9 | 10♂26 | 10°D11 | 10♂44 | 21♂41 | 23°R31 | T 1 |
| W 2 | 11 10 27 | 19°29'49 | 18°42 | 29♂ 3 | 6°50 | 4°55 | 0°19 | 20°49 | 21°45 | 20° 9 | 10°26 | 10°R11 | 10°41 | 21°48 | 23°29 | W 2 |
| T 3 | 11 14 24 | 20°29'25 | 0♂30 | 28°29 | 8° 4 | 5°41 | 0°31 | 20°56 | 21°47 | 20° 9 | 10°26 | 10♂11 | 10°38 | 21°55 | 23°28 | T 3 |
| F 4 | 11 18 20 | 21°29'00 | 12°22 | 27°49 | 9°19 | 6°27 | 0°44 | 21° 4 | 21°49 | 20°10 | 10°27 | 10° 9 | 10°35 | 22° 1 | 23°26 | F 4 |
| S 5 | 11 22 17 | 22°28'33 | 24°24 | 27° 5 | 10°33 | 7°12 | 0°57 | 21°11 | 21°52 | 20°10 | 10°27 | 10° 5 | 10°32 | 22° 8 | 23°25 | S 5 |
| S 6 | 11 26 13 | 23°28'04 | 6♂40 | 26°16 | 11°47 | 7°58 | 1° 9 | 21°19 | 21°54 | 20°10 | 10°28 | 9°58 | 10°29 | 22°15 | 23°24 | S 6 |
| M 7 | 11 30 10 | 24°27'33 | 19°14 | 25°25 | 13° 2 | 8°44 | 1°22 | 21°26 | 21°56 | 20°11 | 10°28 | 9°49 | 10°25 | 22°21 | 23°23 | M 7 |
| T 8 | 11 34 7 | 25°27'01 | 2♂ 6 | 24°33 | 14°16 | 9°30 | 1°35 | 21°34 | 21°58 | 20°11 | 10°28 | 9°38 | 10°22 | 22°28 | 23°22 | T 8 |
| W 9 | 11 38 3 | 26°26'26 | 15°19 | 23°40 | 15°31 | 10°15 | 1°48 | 21°41 | 22° 0 | 20°12 | 10°29 | 9°26 | 10°19 | 22°35 | 23°21 | W 9 |
| T 10 | 11 42 0 | 27°25'50 | 28°49 | 22°48 | 16°45 | 11° 1 | 2° 1 | 21°49 | 22° 2 | 20°12 | 10°29 | 9°14 | 10°16 | 22°41 | 23°20 | T 10 |
| F 11 | 11 45 56 | 28°25'11 | 12♂35 | 21°57 | 18° 0 | 11°47 | 2°14 | 21°56 | 22° 4 | 20°13 | 10°30 | 9° 3 | 10°13 | 22°48 | 23°19 | F 11 |
| S 12 | 11 49 53 | 29°24'30 | 26°33 | 21° 9 | 19°14 | 12°33 | 2°27 | 22° 4 | 22° 6 | 20°14 | 10°31 | 8°54 | 10°10 | 22°54 | 23°19 | S 12 |
| S 13 | 11 53 49 | 0♂23'47 | 10♂39 | 20°24 | 20°29 | 13°19 | 2°40 | 22°11 | 22° 7 | 20°14 | 10°31 | 8°49 | 10° 6 | 23° 1 | 23°18 | S 13 |
| M14 | 11 57 46 | 1°23'02 | 24°48 | 19°44 | 21°43 | 14° 4 | 2°53 | 22°18 | 22° 9 | 20°15 | 10°32 | 8°46 | 10° 3 | 23° 8 | 23°18 | M14 |
| T 15 | 12 1 42 | 2°22'14 | 8♂58 | 19° 8 | 22°57 | 14°50 | 3° 6 | 22°26 | 22°11 | 20°16 | 10°32 | 8°D45 | 10° 0 | 23°14 | 23°18 | T 15 |
| W16 | 12 5 39 | 3°21'24 | 23° 7 | 18°37 | 24°12 | 15°36 | 3°20 | 22°33 | 22°13 | 20°16 | 10°33 | 8°46 | 9°57 | 23°21 | 23°18 | W16 |
| T 17 | 12 9 36 | 4°20'32 | 7♂14 | 18°11 | 25°26 | 16°22 | 3°33 | 22°41 | 22°14 | 20°17 | 10°34 | 8°R46 | 9°54 | 23°28 | 23°D18 | T 17 |
| F 18 | 12 13 32 | 5°19'37 | 21°18 | 17°51 | 26°40 | 17° 8 | 3°46 | 22°48 | 22°16 | 20°18 | 10°34 | 8°45 | 9°50 | 23°34 | 23°18 | F 18 |
| S 19 | 12 17 29 | 6°18'40 | 5♂17 | 17°36 | 27°55 | 17°53 | 4° 0 | 22°55 | 22°17 | 20°19 | 10°35 | 8°41 | 9°47 | 23°41 | 23°18 | S 19 |
| S 20 | 12 21 25 | 7°17'41 | 19°10 | 17°27 | 29° 9 | 18°39 | 4°13 | 23° 3 | 22°19 | 20°20 | 10°36 | 8°36 | 9°44 | 23°48 | 23°18 | S 20 |
| M21 | 12 25 22 | 8°16'39 | 2♂55 | 17°D23 | 0♂23 | 19°25 | 4°27 | 23°10 | 22°20 | 20°21 | 10°36 | 8°28 | 9°41 | 23°54 | 23°18 | M21 |
| T 22 | 12 29 18 | 9°15'35 | 16°30 | 17°25 | 1°38 | 20°11 | 4°40 | 23°17 | 22°22 | 20°22 | 10°37 | 8°18 | 9°38 | 24° 1 | 23°19 | T 22 |
| W23 | 12 33 15 | 10°14'29 | 29°52 | 17°32 | 2°52 | 20°57 | 4°54 | 23°25 | 22°23 | 20°23 | 10°38 | 8° 8 | 9°35 | 24° 8 | 23°19 | W23 |
| T 24 | 12 37 11 | 11°13'21 | 12♂59 | 17°44 | 4° 6 | 21°43 | 5° 8 | 23°32 | 22°24 | 20°24 | 10°39 | 7°58 | 9°31 | 24°14 | 23°20 | T 24 |
| F 25 | 12 41 8 | 12°12'10 | 25°50 | 18° 1 | 5°20 | 22°29 | 5°21 | 23°39 | 22°26 | 20°25 | 10°39 | 7°50 | 9°28 | 24°21 | 23°21 | F 25 |
| S 26 | 12 45 5 | 13°10'58 | 8♂24 | 18°23 | 6°35 | 23°14 | 5°35 | 23°46 | 22°27 | 20°26 | 10°40 | 7°44 | 9°25 | 24°28 | 23°22 | S 26 |
| S 27 | 12 49 1 | 14° 9'44 | 20°42 | 18°50 | 7°49 | 24° 0 | 5°49 | 23°53 | 22°28 | 20°27 | 10°41 | 7°40 | 9°22 | 24°34 | 23°23 | S 27 |
| M28 | 12 52 58 | 15° 8'28 | 2♂48 | 19°21 | 9° 3 | 24°46 | 6° 2 | 24° 1 | 22°29 | 20°28 | 10°42 | 7°D38 | 9°19 | 24°41 | 23°24 | M28 |
| T 29 | 12 56 54 | 16° 7'11 | 14°43 | 19°56 | 10°17 | 25°32 | 6°16 | 24° 8 | 22°30 | 20°29 | 10°43 | 7°39 | 9°15 | 24°47 | 23°25 | T 29 |
| W30 | 13 0 51 | 17° 5'51 | 26°33 | 20°35 | 11°31 | 26°18 | 6°30 | 24°15 | 22°31 | 20°30 | 10°44 | 7°40 | 9°12 | 24°54 | 23°26 | W30 |
| T 31 | 13 4 47 | 18♂4'30 | 8♂21 | 21♂17 | 12♂46 | 27°44 | 6♂44 | 24♂22 | 22♂32 | 20♂31 | 10♂44 | 7♂41 | 9♂ 9 | 25♂ 1 | 23°28 | T 31 |

Delta T = 07m42s

Julian Calendar 1 March 1407 == Greg. Calendar 10 March 1407

APRIL 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|-------|-------|------|
| F 1 | 13 8 44 | 19♂3'07 | 20♂15 | 22♂ 4 | 14♂ 0 | 27°49 | 6♂58 | 24♂29 | 22♂33 | 20♂33 | 10♂45 | 7°R41 | 9♂ 6 | 25♂ 7 | 23°29 | F 1 |
| S 2 | 13 12 40 | 20° 1'43 | 2♂17 | 22°53 | 15°14 | 28°35 | 7°12 | 24°36 | 22°34 | 20°34 | 10°46 | 7♂40 | 9° 3 | 25°14 | 23°31 | S 2 |
| S 3 | 13 16 37 | 21° 0'17 | 14°34 | 23°46 | 16°28 | 29°21 | 7°26 | 24°43 | 22°35 | 20°35 | 10°47 | 7°38 | 9° 0 | 25°21 | 23°33 | S 3 |
| M 4 | 13 20 34 | 21°58'49 | 27°10 | 24°42 | 17°42 | 0♂ 7 | 7°40 | 24°50 | 22°36 | 20°37 | 10°48 | 7°33 | 8°56 | 25°27 | 23°34 | M 4 |
| T 5 | 13 24 30 | 22°57'19 | 10♂ 8 | 25°42 | 18°56 | 0°53 | 7°54 | 24°57 | 22°36 | 20°38 | 10°49 | 7°27 | 8°53 | 25°34 | 23°36 | T 5 |
| W 6 | 13 28 27 | 23°55'47 | 23°30 | 26°43 | 20°10 | 1°38 | 8° 8 | 25° 4 | 22°37 | 20°39 | 10°50 | 7°20 | 8°50 | 25°41 | 23°38 | W 6 |
| T 7 | 13 32 23 | 24°54'14 | 7♂14 | 27°48 | 21°25 | 2°24 | 8°22 | 25°11 | 22°38 | 20°41 | 10°51 | 7°13 | 8°47 | 25°47 | 23°40 | T 7 |
| F 8 | 13 36 20 | 25°52'39 | 21°19 | 28°55 | 22°39 | 3°10 | 8°36 | 25°17 | 22°38 | 20°42 | 10°52 | 7° 6 | 8°44 | 25°54 | 23°43 | F 8 |
| S 9 | 13 40 16 | 26°51'02 | 5♂40 | 0♂ 5 | 23°53 | 3°56 | 8°50 | 25°24 | 22°39 | 20°44 | 10°53 | 7° 1 | 8°41 | 26° 1 | 23°45 | S 9 |
| S 10 | 13 44 13 | 27°49'24 | 20°11 | 1°17 | 25° 7 | 4°42 | 9° 4 | 25°31 | 22°39 | 20°45 | 10°54 | 6°58 | 8°37 | 26° 7 | 23°47 | S 10 |
| M11 | 13 48 9 | 28°47'43 | 4♂46 | 2°32 | 26°21 | 5°27 | 9°18 | 25°38 | 22°40 | 20°47 | 10°55 | 6°D57 | 8°34 | 26°14 | 23°50 | M11 |
| T 12 | 13 52 6 | 29°46'01 | 19°20 | 3°49 | 27°35 | 6°13 | 9°32 | 25°44 | 22°40 | 20°48 | 10°57 | 6°58 | 8°31 | 26°21 | 23°52 | T 12 |
| W13 | 13 56 2 | 0♂44'16 | 3♂47 | 5° 8 | 28°49 | 6°59 | 9°46 | 25°51 | 22°40 | 20°50 | 10°58 | 6°59 | 8°28 | 26°27 | 23°55 | W13 |
| T 14 | 13 59 59 | 1°42'30 | 18° 4 | 6°29 | 0♂ 3 | 7°44 | 10° 0 | 25°57 | 22°41 | 20°51 | 10°59 | 7° 0 | 8°25 | 26°34 | 23°58 | T 14 |
| F 15 | 14 3 56 | 2°40'41 | 2♂10 | 7°52 | 1°17 | 8°30 | 10°15 | 26° 4 | 22°41 | 20°53 | 11° 0 | 7°R 1 | 8°21 | 26°41 | 24° 1 | F 15 |
| S 16 | 14 7 52 | 3°38'50 | 16° 2 | 9°18 | 2°31 | 9°16 | 10°29 | 26°10 | 22°41 | 20°54 | 11° 1 | 7° 0 | 8°18 | 26°47 | 24° 4 | S 16 |
| S 17 | 14 11 49 | 4°36'58 | 29°41 | 10°45 | 3°45 | 10° 1 | 10°43 | 26°17 | 22°41 | 20°56 | 11° 2 | 6°58 | 8°15 | 26°54 | 24° 7 | S 17 |
| M18 | 14 15 45 | 5°35'03 | 13♂ 6 | 12°15 | 4°59 | 10°47 | 10°57 | 26°23 | 22°41 | 20°58 | 11° 3 | 6°55 | 8°12 | 27° 1 | 24°10 | M18 |
| T 19 | 14 19 42 | 6°33'06 | 26°18 | 13°46 | 6°13 | 11°32 | 11°11 | 26°30 | 22°R41 | 20°59 | 11° 4 | 6°50 | 8° 9 | 27° 7 | 24°13 | T 19 |
| W20 | 14 23 38 | 7°31'07 | 9♂16 | 15°20 | 7°27 | 12°18 | 11°26 | 26°36 | 22°41 | 21° 1 | 11° 6 | 6°46 | 8° 6 | 27°14 | 24°17 | W20 |
| T 21 | 14 27 35 | 8°29'07 | 22° 1 | 16°55 | 8°41 | 13° 4 | 11°40 | 26°42 | 22°41 | 21° 3 | 11° 7 | 6°41 | 8° 2 | 27°20 | 24°20 | T 21 |
| F 22 | 14 31 31 | 9°27'04 | 4♂33 | 18°33 | 9°55 | 13°49 | 11°54 | 26°48 | 22°41 | 21° 5 | 11° 8 | 6°37 | 7°59 | 27°27 | 24°24 | F 22 |
| S 23 | 14 35 28 | 10°25'01 | 16°52 | 20°13 | 11° 8 | 14°34 | 12° 8 | 26°54 | 22°41 | 21° 6 | 11° 9 | 6°35 | 7°56 | 27°34 | 24°27 | S 23 |
| S 24 | 14 39 25 | 11°22'55 | 29° 0 | 21°54 | 12°22 | 15°20 | 12°22 | 27° 1 | 22°41 | 21° 8 | 11°11 | 6°33 | 7°53 | 27°40 | 24°31 | S 24 |
| M25 | 14 43 21 | 12°20'49 | 10♂59 | 23°38 | 13°36 | 16° 5 | 12°37 | 27° 7 | 22°40 | 21°10 | 11°12 | 6°D33 | 7°50 | 27°47 | 24°35 | M25 |
| T 26 | 14 47 18 | 13°18'41 | 22°52 | 25°23 | 14°50 | 16°51 | 12°51 | 27°13 | 22°40 | 21°12 | 11°13 | 6°34 | 7°47 | 27°54 | 24°38 | T 26 |
| W27 | 14 51 14 | 14°16'31 | 4♂41 | 27°11 | 16° 4 | 17°36 | 13° 5 | 27°18 | 22°40 | 21°14 | 11°14 | 6°35 | 7°43 | 28° 0 | 24°42 | W27 |
| T 28 | 14 55 11 | 15°14'20 | 16°30 | 29° 0 | 17°18 | 18°22 | 13°19 | 27°24 | 22°39 | 21°16 | 11°16 | 6°37 | 7°40 | 28° 7 | 24°46 | T 28 |
| F 29 | 14 59 7 | 16°12'08 | 28°23 | 0♂51 | 18°32 | 19° 7 | 13°33 | 27°30 | 22°39 | 21°18 | 11°17 | 6°38 | 7°37 | 28°14 | 24°51 | F 29 |
| S 30 | 15 3 4 | 17♂ 9'55 | 10♂26 | 2♂45 | 19♂46 | 19♂52 | 13♂48 | 27♂36 | 22♂38 | 21♂19 | 11♂18 | 6♂39 | 7♂34 | 28♂20 | 24°55 | S 30 |

Delta T = 07m41s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1407

geocentric

MAY 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|-------|-------|------|
| S 1 | 15 7 0 | 18♂ 7'41 | 22♂42 | 4♂40 | 20♂59 | 20♂37 | 14♂ 2 | 27♂42 | 22♂R38 | 21♂21 | 11♂19 | 6♂R39 | 7♂31 | 28♂27 | 24♂59 | S 1 |
| M 2 | 15 10 57 | 19° 5'25 | 5♂16 | 6°38 | 22°13 | 21°23 | 14°16 | 27°47 | 22♂37 | 21°23 | 11°21 | 6♂39 | 7°27 | 28°34 | 25° 3 | M 2 |
| T 3 | 15 14 54 | 20° 3'08 | 18°13 | 8°37 | 23°27 | 22° 8 | 14°30 | 27°53 | 22°37 | 21°25 | 11°22 | 6°37 | 7°24 | 28°40 | 25° 8 | T 3 |
| W 4 | 15 18 50 | 21° 0'50 | 1♂34 | 10°38 | 24°41 | 22°53 | 14°44 | 27°58 | 22°36 | 21°27 | 11°23 | 6°35 | 7°21 | 28°47 | 25°12 | W 4 |
| T 5 | 15 22 47 | 21°58'31 | 15°21 | 12°41 | 25°55 | 23°38 | 14°58 | 28° 4 | 22°35 | 21°29 | 11°25 | 6°33 | 7°18 | 28°54 | 25°17 | T 5 |
| F 6 | 15 26 43 | 22°56'11 | 29°34 | 14°45 | 27° 8 | 24°23 | 15°13 | 28° 9 | 22°34 | 21°31 | 11°26 | 6°32 | 7°15 | 29° 0 | 25°22 | F 6 |
| S 7 | 15 30 40 | 23°53'50 | 14♂ 7 | 16°51 | 28°22 | 25° 8 | 15°27 | 28°14 | 22°33 | 21°33 | 11°27 | 6°30 | 7°12 | 29° 7 | 25°26 | S 7 |
| S 8 | 15 34 36 | 24°51'28 | 28°56 | 18°59 | 29°36 | 25°53 | 15°41 | 28°20 | 22°33 | 21°35 | 11°29 | 6°30 | 7° 8 | 29°14 | 25°31 | S 8 |
| M 9 | 15 38 33 | 25°49'04 | 13♂53 | 21° 8 | 0♂50 | 26°38 | 15°55 | 28°25 | 22°32 | 21°37 | 11°30 | 6°D30 | 7° 5 | 29°20 | 25°36 | M 9 |
| T 10 | 15 42 29 | 26°46'40 | 28°50 | 23°18 | 2° 3 | 27°23 | 16° 9 | 28°30 | 22°31 | 21°39 | 11°31 | 6°30 | 7° 2 | 29°27 | 25°41 | T 10 |
| W11 | 15 46 26 | 27°44'14 | 13♂39 | 25°29 | 3°17 | 28° 8 | 16°23 | 28°35 | 22°30 | 21°41 | 11°33 | 6°31 | 6°59 | 29°34 | 25°46 | W11 |
| T 12 | 15 50 23 | 28°41'46 | 28°14 | 27°40 | 4°31 | 28°53 | 16°37 | 28°40 | 22°29 | 21°44 | 11°34 | 6°32 | 6°56 | 29°40 | 25°51 | T 12 |
| F 13 | 15 54 19 | 29°39'17 | 12♂31 | 29°52 | 5°45 | 29°38 | 16°51 | 28°45 | 22°27 | 21°46 | 11°36 | 6°32 | 6°53 | 29°47 | 25°57 | F 13 |
| S 14 | 15 58 16 | 0♂36'47 | 26°28 | 2♂ 4 | 6°58 | 0♂22 | 17° 5 | 28°49 | 22°26 | 21°48 | 11°37 | 6°R32 | 6°49 | 29°54 | 26° 2 | S 14 |
| S 15 | 16 2 12 | 1°34'15 | 10♂ 3 | 4°16 | 8°12 | 1° 7 | 17°19 | 28°54 | 22°25 | 21°50 | 11°38 | 6°32 | 6°46 | 0♂ 0 | 26° 7 | S 15 |
| M16 | 16 6 9 | 2°31'42 | 23°19 | 6°27 | 9°26 | 1°52 | 17°33 | 28°59 | 22°24 | 21°52 | 11°40 | 6°32 | 6°43 | 0° 7 | 26°13 | M16 |
| T 17 | 16 10 5 | 3°29'08 | 6♂16 | 8°38 | 10°40 | 2°36 | 17°47 | 29° 3 | 22°23 | 21°54 | 11°41 | 6°32 | 6°40 | 0°14 | 26°18 | T 17 |
| W18 | 16 14 2 | 4°26'32 | 18°57 | 10°47 | 11°53 | 3°21 | 18° 1 | 29° 8 | 22°21 | 21°56 | 11°42 | 6°32 | 6°37 | 0°20 | 26°24 | W18 |
| T 19 | 16 17 58 | 5°23'55 | 1♂23 | 12°56 | 13° 7 | 4° 5 | 18°15 | 29°12 | 22°20 | 21°58 | 11°44 | 6°31 | 6°33 | 0°27 | 26°29 | T 19 |
| F 20 | 16 21 55 | 6°21'18 | 13°39 | 15° 3 | 14°21 | 4°50 | 18°28 | 29°17 | 22°18 | 22° 1 | 11°45 | 6°D31 | 6°30 | 0°33 | 26°35 | F 20 |
| S 21 | 16 25 52 | 7°18'39 | 25°44 | 17° 9 | 15°34 | 5°34 | 18°42 | 29°21 | 22°17 | 22° 3 | 11°47 | 6°31 | 6°27 | 0°40 | 26°40 | S 21 |
| S 22 | 16 29 48 | 8°15'59 | 7♂42 | 19°12 | 16°48 | 6°18 | 18°56 | 29°25 | 22°16 | 22° 5 | 11°48 | 6°R31 | 6°24 | 0°47 | 26°46 | S 22 |
| M23 | 16 33 45 | 9°13'19 | 19°35 | 21°14 | 18° 1 | 7° 3 | 19°10 | 29°29 | 22°14 | 22° 7 | 11°49 | 6°31 | 6°21 | 0°53 | 26°52 | M23 |
| T 24 | 16 37 41 | 10°10'38 | 1♂24 | 23°14 | 19°15 | 7°47 | 19°23 | 29°33 | 22°12 | 22° 9 | 11°51 | 6°31 | 6°18 | 1° 0 | 26°58 | T 24 |
| W25 | 16 41 38 | 11° 7'56 | 13°13 | 25°12 | 20°29 | 8°31 | 19°37 | 29°37 | 22°11 | 22°12 | 11°52 | 6°31 | 6°14 | 1° 7 | 27° 4 | W25 |
| T 26 | 16 45 34 | 12° 5'14 | 25° 4 | 27° 7 | 21°42 | 9°15 | 19°51 | 29°41 | 22° 9 | 22°14 | 11°54 | 6°30 | 6°11 | 1°13 | 27°10 | T 26 |
| F 27 | 16 49 31 | 13° 2'31 | 6♂59 | 29° 0 | 22°56 | 9°59 | 20° 4 | 29°45 | 22° 8 | 22°16 | 11°55 | 6°29 | 6° 8 | 1°20 | 27°16 | F 27 |
| S 28 | 16 53 28 | 13°59'48 | 19° 3 | 0♂51 | 24°10 | 10°43 | 20°18 | 29°49 | 22° 6 | 22°18 | 11°56 | 6°28 | 6° 5 | 1°27 | 27°22 | S 28 |
| S 29 | 16 57 24 | 14°57'04 | 1♂19 | 2°39 | 25°23 | 11°27 | 20°31 | 29°52 | 22° 4 | 22°20 | 11°58 | 6°28 | 6° 2 | 1°33 | 27°28 | S 29 |
| M30 | 17 1 21 | 15°54'20 | 13°52 | 4°25 | 26°37 | 12°11 | 20°45 | 29°56 | 22° 2 | 22°23 | 11°59 | 6°D27 | 5°59 | 1°40 | 27°35 | M30 |
| T 31 | 17 5 17 | 16°51'35 | 26♂44 | 6♂ 9 | 27♂50 | 12♂55 | 20♂58 | 29♂59 | 22♂ 1 | 22♂25 | 12♂ 1 | 6♂28 | 5♂55 | 1♂47 | 27♂41 | T 31 |

Delta T = 07m41s

Julian Calendar 1 May 1407 = Greg. Calendar 10 May 1407

JUNE 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|------|--------|-------|-------|-------|------|------|-------|------|
| W 1 | 17 9 14 | 17♂48'50 | 10♂ 0 | 7♂50 | 29♂ 4 | 13♂38 | 21♂12 | 0♂ 3 | 21°R59 | 22♂27 | 12♂ 2 | 6♂28 | 5♂52 | 1♂53 | 27♂47 | W 1 |
| T 2 | 17 13 10 | 18°46'05 | 23°41 | 9°29 | 0♂18 | 14°22 | 21°25 | 0° 6 | 21♂57 | 22°29 | 12° 3 | 6°29 | 5°49 | 2° 0 | 27°54 | T 2 |
| F 3 | 17 17 7 | 19°43'20 | 7♂49 | 11° 5 | 1°31 | 15° 6 | 21°38 | 0° 9 | 21°55 | 22°31 | 12° 5 | 6°30 | 5°46 | 2° 7 | 28° 0 | F 3 |
| S 4 | 17 21 3 | 20°40'35 | 22°22 | 12°39 | 2°45 | 15°49 | 21°51 | 0°12 | 21°53 | 22°34 | 12° 6 | 6°31 | 5°43 | 2°13 | 28° 7 | S 4 |
| S 5 | 17 25 0 | 21°37'49 | 7♂15 | 14°10 | 3°58 | 16°32 | 22° 5 | 0°15 | 21°51 | 22°36 | 12° 8 | 6°R31 | 5°39 | 2°20 | 28°13 | S 5 |
| M 6 | 17 28 57 | 22°35'04 | 22°22 | 15°39 | 5°12 | 17°16 | 22°18 | 0°18 | 21°49 | 22°38 | 12° 9 | 6°31 | 5°36 | 2°27 | 28°20 | M 6 |
| T 7 | 17 32 53 | 23°32'18 | 7♂33 | 17° 6 | 6°25 | 17°59 | 22°31 | 0°21 | 21°47 | 22°40 | 12°10 | 6°29 | 5°33 | 2°33 | 28°26 | T 7 |
| W 8 | 17 36 50 | 24°29'31 | 22°39 | 18°29 | 7°39 | 18°42 | 22°44 | 0°24 | 21°45 | 22°43 | 12°12 | 6°28 | 5°30 | 2°40 | 28°33 | W 8 |
| T 9 | 17 40 46 | 25°26'44 | 7♂32 | 19°50 | 8°52 | 19°25 | 22°57 | 0°26 | 21°43 | 22°45 | 12°13 | 6°25 | 5°27 | 2°47 | 28°40 | T 9 |
| F 10 | 17 44 43 | 26°23'57 | 22° 4 | 21° 9 | 10° 6 | 20° 9 | 23°10 | 0°29 | 21°41 | 22°47 | 12°14 | 6°23 | 5°24 | 2°53 | 28°46 | F 10 |
| S 11 | 17 48 39 | 27°21'09 | 6♂10 | 22°25 | 11°20 | 20°51 | 23°23 | 0°31 | 21°39 | 22°49 | 12°16 | 6°21 | 5°20 | 3° 0 | 28°53 | S 11 |
| S 12 | 17 52 36 | 28°18'20 | 19°50 | 23°38 | 12°33 | 21°34 | 23°36 | 0°34 | 21°37 | 22°52 | 12°17 | 6°20 | 5°17 | 3° 7 | 29° 0 | S 12 |
| M13 | 17 56 32 | 29°15'31 | 3♂ 5 | 24°48 | 13°47 | 22°17 | 23°48 | 0°36 | 21°35 | 22°54 | 12°19 | 6°D20 | 5°14 | 3°13 | 29° 7 | M13 |
| T 14 | 18 0 29 | 0♂12'41 | 15°56 | 25°55 | 15° 0 | 23° 0 | 24° 1 | 0°38 | 21°32 | 22°56 | 12°20 | 6°20 | 5°11 | 3°20 | 29°14 | T 14 |
| W15 | 18 4 26 | 1° 9'52 | 28°28 | 27° 0 | 16°14 | 23°42 | 24°14 | 0°40 | 21°30 | 22°58 | 12°21 | 6°22 | 5° 8 | 3°27 | 29°21 | W15 |
| T 16 | 18 8 22 | 2° 7'01 | 10♂44 | 28° 1 | 17°27 | 24°25 | 24°26 | 0°42 | 21°28 | 23° 1 | 12°23 | 6°23 | 5° 5 | 3°33 | 29°28 | T 16 |
| F 17 | 18 12 19 | 3° 4'11 | 22°48 | 29° 0 | 18°41 | 25° 7 | 24°39 | 0°44 | 21°26 | 23° 3 | 12°24 | 6°25 | 5° 1 | 3°40 | 29°35 | F 17 |
| S 18 | 18 16 15 | 4° 1'21 | 4♂44 | 29°55 | 19°54 | 25°50 | 24°51 | 0°46 | 21°24 | 23° 5 | 12°25 | 6°R26 | 4°58 | 3°47 | 29°42 | S 18 |
| S 19 | 18 20 12 | 4°58'30 | 16°36 | 0♂47 | 21° 7 | 26°32 | 25° 4 | 0°47 | 21°21 | 23° 7 | 12°27 | 6°25 | 4°55 | 3°53 | 29°49 | S 19 |
| M20 | 18 24 8 | 5°55'40 | 28°24 | 1°35 | 22°21 | 27°14 | 25°16 | 0°49 | 21°19 | 23° 9 | 12°28 | 6°23 | 4°52 | 4° 0 | 29°56 | M20 |
| T 21 | 18 28 5 | 6°52'50 | 10♂13 | 2°20 | 23°34 | 27°56 | 25°28 | 0°50 | 21°17 | 23°12 | 12°29 | 6°20 | 4°49 | 4° 7 | 0♂ 3 | T 21 |
| W22 | 18 32 1 | 7°49'59 | 22° 4 | 3° 1 | 24°48 | 28°38 | 25°40 | 0°52 | 21°14 | 23°14 | 12°30 | 6°15 | 4°45 | 4°13 | 0°11 | W22 |
| T 23 | 18 35 58 | 8°47'09 | 4♂ 0 | 3°38 | 26° 1 | 29°20 | 25°53 | 0°53 | 21°12 | 23°16 | 12°32 | 6°10 | 4°42 | 4°20 | 0°18 | T 23 |
| F 24 | 18 39 55 | 9°44'20 | 16° 1 | 4°11 | 27°15 | 0♂ 2 | 26° 5 | 0°54 | 21°10 | 23°18 | 12°33 | 6° 4 | 4°39 | 4°27 | 0°25 | F 24 |
| S 25 | 18 43 51 | 10°41'30 | 28°11 | 4°40 | 28°28 | 0°44 | 26°17 | 0°55 | 21° 7 | 23°20 | 12°34 | 5°59 | 4°36 | 4°33 | 0°32 | S 25 |
| S 26 | 18 47 48 | 11°38'41 | 10♂32 | 5° 5 | 29°41 | 1°25 | 26°29 | 0°56 | 21° 5 | 23°22 | 12°35 | 5°54 | 4°33 | 4°40 | 0°40 | S 26 |
| M27 | 18 51 44 | 12°35'53 | 23° 6 | 5°26 | 0♂55 | 2° 7 | 26°40 | 0°57 | 21° 3 | 23°25 | 12°37 | 5°51 | 4°30 | 4°47 | 0°47 | M27 |
| T 28 | 18 55 41 | 13°33'05 | 5♂57 | 5°42 | 2° 8 | 2°48 | 26°52 | 0°58 | 21° 0 | 23°27 | 12°38 | 5°49 | 4°26 | 4°53 | 0°54 | T 28 |
| W29 | 18 59 37 | 14°30'18 | 19° 7 | 5°53 | 3°22 | 3°29 | 27° 4 | 0°58 | 20°58 | 23°29 | 12°39 | 5°D49 | 4°23 | 5° 0 | 1° 2 | W29 |
| T 30 | 19 3 34 | 15°27'31 | 2♂41 | 5♂59 | 4♂35 | 4♂11 | 27♂15 | 0♂59 | 20♂56 | 23♂31 | 12♂40 | 5♂50 | 4♂20 | 5♂ 7 | 1♂ 9 | T 30 |

Delta T = 07m41s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1407

geocentric

JULY 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------------------|---------------------|--------------------|---------------------|--------------------|--------------------|-------|--------|---------------------|---------------------|--------------------|--------------------|-------------------|--------------------|------|
| F 1 | 19 7 30 | 16 ²⁴ 45 | 16 ³⁸ 38 | 6°R 1 | 5 ⁴⁸ 48 | 4 ⁵² 52 | 27 ⁸ 27 | 0°Y59 | 20°R53 | 23 ^{II} 33 | 12 ^{II} 42 | 5 ^{II} 51 | 4 ^{II} 17 | 5 ³ 13 | 1 ^{II} 17 | F 1 |
| S 2 | 19 11 27 | 17°22'01 | 1 ^{II} 0 | 5 ⁴⁸ 58 | 7° 2 | 5°33 | 27°38 | 1° 0 | 20°351 | 23°35 | 12°43 | 5°R52 | 4°14 | 5°20 | 1°24 | S 2 |
| S 3 | 19 15 24 | 18°19'16 | 15°44 | 5°50 | 8°15 | 6°14 | 27°50 | 1° 0 | 20°48 | 23°37 | 12°44 | 5°52 | 4°11 | 5°27 | 1°31 | S 3 |
| M 4 | 19 19 20 | 19°16'33 | 0 ²⁴ 45 | 5°37 | 9°28 | 6°54 | 28° 1 | 1° 0 | 20°46 | 23°39 | 12°45 | 5°50 | 4° 7 | 5°33 | 1°39 | M 4 |
| T 5 | 19 23 17 | 20°13'50 | 15°56 | 5°20 | 10°42 | 7°35 | 28°12 | 1°R 0 | 20°44 | 23°41 | 12°46 | 5°46 | 4° 4 | 5°40 | 1°46 | T 5 |
| W 6 | 19 27 13 | 21°11'08 | 1 ^{II} 7 | 4°57 | 11°55 | 8°15 | 28°23 | 1° 0 | 20°41 | 23°43 | 12°47 | 5°40 | 4° 1 | 5°47 | 1°54 | W 6 |
| T 7 | 19 31 10 | 22° 8'27 | 16° 7 | 4°31 | 13° 8 | 8°56 | 28°34 | 1° 0 | 20°39 | 23°45 | 12°49 | 5°33 | 3°58 | 5°53 | 2° 1 | T 7 |
| F 8 | 19 35 6 | 23° 5'45 | 0 ^{II} 48 | 4° 0 | 14°22 | 9°36 | 28°45 | 1° 0 | 20°36 | 23°47 | 12°50 | 5°26 | 3°55 | 6° 0 | 2° 9 | F 8 |
| S 9 | 19 39 3 | 24° 3'05 | 15° 4 | 3°26 | 15°35 | 10°16 | 28°56 | 0°59 | 20°34 | 23°49 | 12°51 | 5°20 | 3°51 | 6° 7 | 2°17 | S 9 |
| S 10 | 19 43 0 | 25° 0'24 | 28°51 | 2°48 | 16°48 | 10°56 | 29° 6 | 0°59 | 20°32 | 23°51 | 12°52 | 5°15 | 3°48 | 6°13 | 2°24 | S 10 |
| M 11 | 19 46 56 | 25°57'45 | 12 ^{II} 10 | 2° 7 | 18° 1 | 11°36 | 29°17 | 0°58 | 20°29 | 23°53 | 12°53 | 5°12 | 3°45 | 6°20 | 2°32 | M 11 |
| T 12 | 19 50 53 | 26°55'05 | 25° 2 | 1°25 | 19°15 | 12°16 | 29°27 | 0°58 | 20°27 | 23°55 | 12°54 | 5°D11 | 3°42 | 6°27 | 2°39 | T 12 |
| W 13 | 19 54 49 | 27°52'27 | 7 ^{II} 32 | 0°41 | 20°28 | 12°55 | 29°38 | 0°57 | 20°24 | 23°57 | 12°55 | 5°12 | 3°39 | 6°33 | 2°47 | W 13 |
| T 14 | 19 58 46 | 28°49'48 | 19°44 | 29°56 | 21°41 | 13°35 | 29°48 | 0°56 | 20°22 | 23°59 | 12°56 | 5°13 | 3°36 | 6°40 | 2°55 | T 14 |
| F 15 | 20 2 42 | 29°47'11 | 1 ^{II} 44 | 29°11 | 22°54 | 14°14 | 29°58 | 0°55 | 20°20 | 24° 1 | 12°57 | 5°R14 | 3°32 | 6°47 | 3° 2 | F 15 |
| S 16 | 20 6 39 | 0 ^{II} 44'34 | 13°35 | 28°28 | 24° 7 | 14°53 | 0 ^{II} 8 | 0°54 | 20°17 | 24° 3 | 12°58 | 5°13 | 3°29 | 6°53 | 3°10 | S 16 |
| S 17 | 20 10 35 | 1°41'58 | 25°24 | 27°46 | 25°21 | 15°32 | 0°18 | 0°53 | 20°15 | 24° 5 | 12°59 | 5°11 | 3°26 | 7° 0 | 3°17 | S 17 |
| M 18 | 20 14 32 | 2°39'23 | 7 ³ 12 | 27° 7 | 26°34 | 16°11 | 0°28 | 0°51 | 20°13 | 24° 7 | 13° 0 | 5° 7 | 3°23 | 7° 7 | 3°25 | M 18 |
| T 19 | 20 18 29 | 3°36'48 | 19° 3 | 26°31 | 27°47 | 16°50 | 0°38 | 0°50 | 20°10 | 24° 8 | 13° 1 | 5° 0 | 3°20 | 7°13 | 3°33 | T 19 |
| W 20 | 20 22 25 | 4°34'15 | 1 ^{II} 0 | 25°59 | 29° 0 | 17°28 | 0°47 | 0°49 | 20° 8 | 24°10 | 13° 2 | 4°51 | 3°17 | 7°20 | 3°40 | W 20 |
| T 21 | 20 26 22 | 5°31'43 | 13° 4 | 25°32 | 0 ^{II} 13 | 18° 7 | 0°57 | 0°47 | 20° 6 | 24°12 | 13° 3 | 4°40 | 3°13 | 7°27 | 3°48 | T 21 |
| F 22 | 20 30 18 | 6°29'11 | 25°16 | 25°10 | 1°26 | 18°45 | 1° 6 | 0°45 | 20° 3 | 24°14 | 13° 4 | 4°29 | 3°10 | 7°33 | 3°56 | F 22 |
| S 23 | 20 34 15 | 7°26'41 | 7 ³ 37 | 24°54 | 2°39 | 19°23 | 1°15 | 0°44 | 20° 1 | 24°16 | 13° 5 | 4°18 | 3° 7 | 7°40 | 4° 3 | S 23 |
| S 24 | 20 38 11 | 8°24'12 | 20° 9 | 24°44 | 3°52 | 20° 1 | 1°25 | 0°42 | 19°59 | 24°17 | 13° 6 | 4° 9 | 3° 4 | 7°47 | 4°11 | S 24 |
| M 25 | 20 42 8 | 9°21'44 | 2 ^{II} 52 | 24°D41 | 5° 5 | 20°39 | 1°34 | 0°40 | 19°57 | 24°19 | 13° 7 | 4° 1 | 3° 1 | 7°53 | 4°19 | M 25 |
| T 26 | 20 46 4 | 10°19'18 | 15°48 | 24°45 | 6°18 | 21°17 | 1°43 | 0°38 | 19°54 | 24°21 | 13° 7 | 3°56 | 2°57 | 8° 0 | 4°26 | T 26 |
| W 27 | 20 50 1 | 11°16'53 | 29° 0 | 24°56 | 7°31 | 21°55 | 1°51 | 0°36 | 19°52 | 24°22 | 13° 8 | 3°54 | 2°54 | 8° 7 | 4°34 | W 27 |
| T 28 | 20 53 58 | 12°14'30 | 12 ^{II} 29 | 25°13 | 8°44 | 22°32 | 2° 0 | 0°33 | 19°50 | 24°24 | 13° 9 | 3°D53 | 2°51 | 8°13 | 4°41 | T 28 |
| F 29 | 20 57 54 | 13°12'08 | 26°17 | 25°38 | 9°57 | 23° 9 | 2° 8 | 0°31 | 19°48 | 24°26 | 13°10 | 3°R53 | 2°48 | 8°20 | 4°49 | F 29 |
| S 30 | 21 1 51 | 14° 9'48 | 10 ^{II} 26 | 26°11 | 11°10 | 23°46 | 2°17 | 0°29 | 19°46 | 24°27 | 13°11 | 3°53 | 2°45 | 8°27 | 4°57 | S 30 |
| S 31 | 21 5 47 | 15 ^{II} 7'30 | 24 ^{II} 54 | 26°50 | 12 ^{II} 23 | 24°23 | 2 ^{II} 25 | 0°Y26 | 19°344 | 24 ^{II} 29 | 13 ^{II} 11 | 3 ^{II} 52 | 2 ^{II} 42 | 8°33 | 5 ^{II} 4 | S 31 |

Delta T = 07m41s

Julian Calendar 1 July 1407 == Greg. Calendar 10 July 1407

AUGUST 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------|--------|---------------------|---------------------|--------------------|--------------------|--------|--------------------|------|
| M 1 | 21 9 44 | 16 ^{II} 5'13 | 9 ²⁴ 39 | 27°36 | 13 ^{II} 36 | 25°8 0 | 2 ^{II} 33 | 0°R24 | 19°R42 | 24 ^{II} 30 | 13 ^{II} 12 | 3°R48 | 2 ^{II} 38 | 8°340 | 5 ^{II} 12 | M 1 |
| T 2 | 21 13 40 | 17° 2'58 | 24°35 | 28°29 | 14°49 | 25°36 | 2°41 | 0°Y21 | 19°340 | 24°32 | 13°13 | 3 ^{II} 42 | 2°35 | 8°47 | 5°19 | T 2 |
| W 3 | 21 17 37 | 18° 0'45 | 9 ^{II} 34 | 29°29 | 16° 2 | 26°12 | 2°49 | 0°18 | 19°38 | 24°33 | 13°14 | 3°33 | 2°32 | 8°53 | 5°27 | W 3 |
| T 4 | 21 21 33 | 18°58'33 | 24°28 | 0 ^{II} 36 | 17°15 | 26°49 | 2°57 | 0°15 | 19°36 | 24°35 | 13°14 | 3°22 | 2°29 | 9° 0 | 5°35 | T 4 |
| F 5 | 21 25 30 | 19°56'22 | 9 ^{II} 6 | 1°48 | 18°27 | 27°24 | 3° 4 | 0°12 | 19°34 | 24°36 | 13°15 | 3°11 | 2°26 | 9° 7 | 5°42 | F 5 |
| S 6 | 21 29 27 | 20°54'12 | 23°23 | 3° 6 | 19°40 | 28° 0 | 3°12 | 0° 9 | 19°32 | 24°38 | 13°16 | 3° 1 | 2°22 | 9°13 | 5°50 | S 6 |
| S 7 | 21 33 23 | 21°52'04 | 7 ^{II} 13 | 4°30 | 20°53 | 28°36 | 3°19 | 0° 6 | 19°30 | 24°39 | 13°16 | 2°53 | 2°19 | 9°20 | 5°57 | S 7 |
| M 8 | 21 37 20 | 22°49'57 | 20°34 | 5°59 | 22° 6 | 29°11 | 3°26 | 0° 3 | 19°28 | 24°40 | 13°17 | 2°47 | 2°16 | 9°27 | 6° 5 | M 8 |
| T 9 | 21 41 16 | 23°47'51 | 3 ^{II} 29 | 7°33 | 23°19 | 29°46 | 3°33 | 29°H59 | 19°26 | 24°42 | 13°17 | 2°44 | 2°13 | 9°33 | 6°12 | T 9 |
| W 10 | 21 45 13 | 24°45'47 | 16° 1 | 9°11 | 24°31 | 0 ^{II} 21 | 3°40 | 29°57 | 19°24 | 24°43 | 13°18 | 2°42 | 2°10 | 9°40 | 6°20 | W 10 |
| T 11 | 21 49 9 | 25°43'44 | 28° 13 | 10°52 | 25°44 | 0°56 | 3°47 | 29°53 | 19°22 | 24°44 | 13°18 | 2°42 | 2° 7 | 9°47 | 6°27 | T 11 |
| F 12 | 21 53 6 | 26°41'42 | 10 ^{II} 13 | 12°37 | 26°57 | 1°30 | 3°53 | 29°50 | 19°21 | 24°46 | 13°19 | 2°42 | 2° 3 | 9°53 | 6°34 | F 12 |
| S 13 | 21 57 2 | 27°39'42 | 22° 4 | 14°25 | 28° 9 | 2° 4 | 4° 0 | 29°46 | 19°19 | 24°47 | 13°19 | 2°41 | 2° 0 | 10° 0 | 6°42 | S 13 |
| S 14 | 22 0 59 | 28°37'43 | 3 ³ 52 | 16°15 | 29°22 | 2°38 | 4° 6 | 29°43 | 19°17 | 24°48 | 13°20 | 2°38 | 1°57 | 10° 7 | 6°49 | S 14 |
| M 15 | 22 4 56 | 29°35'46 | 15°42 | 18° 8 | 0 ^{II} 34 | 3°12 | 4°12 | 29°39 | 19°15 | 24°49 | 13°20 | 2°32 | 1°54 | 10°14 | 6°57 | M 15 |
| T 16 | 22 8 52 | 0 ^{II} 33'50 | 27°38 | 20° 1 | 1°47 | 3°46 | 4°18 | 29°35 | 19°14 | 24°50 | 13°21 | 2°24 | 1°51 | 10°20 | 7° 4 | T 16 |
| W 17 | 22 12 49 | 1°31'56 | 9 ^{II} 42 | 21°56 | 2°59 | 4°19 | 4°24 | 29°31 | 19°12 | 24°52 | 13°21 | 2°13 | 1°48 | 10°27 | 7°11 | W 17 |
| T 18 | 22 16 45 | 2°30'03 | 21°57 | 23°52 | 4°12 | 4°52 | 4°29 | 29°27 | 19°11 | 24°53 | 13°22 | 2° 0 | 1°44 | 10°34 | 7°18 | T 18 |
| F 19 | 22 20 42 | 3°28'12 | 4 ^{II} 22 | 25°48 | 5°24 | 5°25 | 4°35 | 29°24 | 19° 9 | 24°54 | 13°22 | 1°47 | 1°41 | 10°40 | 7°26 | F 19 |
| S 20 | 22 24 38 | 4°26'22 | 17° 0 | 27°44 | 6°37 | 5°57 | 4°40 | 29°20 | 19° 8 | 24°55 | 13°22 | 1°34 | 1°38 | 10°47 | 7°33 | S 20 |
| S 21 | 22 28 35 | 5°24'35 | 29°49 | 29°41 | 7°49 | 6°30 | 4°45 | 29°16 | 19° 6 | 24°56 | 13°23 | 1°22 | 1°35 | 10°54 | 7°40 | S 21 |
| M 22 | 22 32 31 | 6°22'49 | 12 ^{II} 49 | 1 ^{II} 37 | 9° 2 | 7° 2 | 4°50 | 29°11 | 19° 5 | 24°57 | 13°23 | 1°13 | 1°32 | 11° 0 | 7°47 | M 22 |
| T 23 | 22 36 28 | 7°21'06 | 26° 0 | 3°32 | 10°14 | 7°34 | 4°54 | 29° 7 | 19° 4 | 24°58 | 13°23 | 1° 6 | 1°28 | 11° 7 | 7°54 | T 23 |
| W 24 | 22 40 25 | 8°19'24 | 9 ^{II} 23 | 5°27 | 11°26 | 8° 5 | 4°59 | 29° 3 | 19° 2 | 24°59 | 13°24 | 1° 3 | 1°25 | 11°14 | 8° 1 | W 24 |
| T 25 | 22 44 21 | 9°17'45 | 22°57 | 7°22 | 12°38 | 8°37 | 5° 3 | 28°59 | 19° 1 | 24°59 | 13°24 | 1° 2 | 1°22 | 11°20 | 8° 8 | T 25 |
| F 26 | 22 48 18 | 10°16'07 | 6 ^{II} 44 | 9°16 | 13°51 | 9° 8 | 5° 8 | 28°55 | 19° 0 | 25° 0 | 13°24 | 1° 2 | 1°19 | 11°27 | 8°15 | F 26 |
| S 27 | 22 52 14 | 11°14'32 | 20°45 | 11° 8 | 15° 3 | 9°38 | 5°12 | 28°50 | 18°59 | 25° 1 | 13°24 | 1° 1 | 1°16 | 11°34 | 8°22 | S 27 |
| S 28 | 22 56 11 | 12°13'00 | 4 ^{II} 59 | 13° 0 | 16°15 | 10° 9 | 5°15 | 28°46 | 18°57 | 25° 2 | 13°25 | 1° 0 | 1°13 | 11°40 | 8°29 | S 28 |
| M 29 | 23 0 7 | 13°11'29 | 19°24 | 14°51 | 17°27 | 10°39 | 5°19 | 28°41 | 18°56 | 25° 3 | 13°25 | 0°56 | 1° 9 | 11°47 | 8°36 | M 29 |
| T 30 | 23 4 4 | 14°10'01 | 3 ^{II} 57 | 16°41 | 18°39 | 11° 9 | 5°23 | 28°37 | 18°55 | 25° 3 | 13°25 | 0°50 | 1° 6 | 11°54 | 8°43 | T 30 |
| W 31 | 23 8 0 | 15 ^{II} 8'35 | 18 ^{II} 34 | 18 ^{II} 30 | 19°51 | 11 ^{II} 38 | 5 ^{II} 26 | 28°H33 | 18°34 | 25 ^{II} 4 | 13 ^{II} 25 | 0 ^{II} 41 | 1 ^{II} 3 | 12°3 0 | 8°50 | W 31 |

Delta T = 07m41s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1407

geocentric

SEPTEMBER 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|---------------------|------|
| T 1 | 23 11 57 | 16 ¹⁰ 7'10 | 3 ¹⁰ 7 | 20 ¹⁰ 18 | 21 ¹⁰ 4 | 12 ¹⁰ 7 | 5 ¹⁰ 29 | 28 ¹⁰ R28 | 18 ¹⁰ R53 | 25 ¹⁰ 5 | 13 ¹⁰ 25 | 0 ¹⁰ R30 | 1 ¹⁰ 0 | 12 ¹⁰ 7 | 8 ¹⁰ 56 | T 1 |
| F 2 | 23 15 54 | 17 ¹⁰ 5'48 | 17 ¹⁰ 29 | 22 ¹⁰ 5 | 22 ¹⁰ 16 | 12 ¹⁰ 36 | 5 ¹⁰ 32 | 28 ¹⁰ 23 | 18 ¹⁰ 52 | 25 ¹⁰ 5 | 13 ¹⁰ 25 | 0 ¹⁰ 19 | 0 ¹⁰ 57 | 12 ¹⁰ 14 | 9 ¹⁰ 3 | F 2 |
| S 3 | 23 19 50 | 18 ¹⁰ 4'28 | 1 ¹⁰ 33 | 23 ¹⁰ 51 | 23 ¹⁰ 28 | 13 ¹⁰ 5 | 5 ¹⁰ 35 | 28 ¹⁰ 19 | 18 ¹⁰ 52 | 25 ¹⁰ 6 | 13 ¹⁰ 25 | 0 ¹⁰ 8 | 0 ¹⁰ 54 | 12 ¹⁰ 20 | 9 ¹⁰ 10 | S 3 |
| S 4 | 23 23 47 | 19 ¹⁰ 3'09 | 15 ¹⁰ 16 | 25 ¹⁰ 35 | 24 ¹⁰ 40 | 13 ¹⁰ 33 | 5 ¹⁰ 37 | 28 ¹⁰ 14 | 18 ¹⁰ 51 | 25 ¹⁰ 6 | 13 ¹⁰ 25 | 29 ¹⁰ 59 | 0 ¹⁰ 50 | 12 ¹⁰ 27 | 9 ¹⁰ 16 | S 4 |
| M 5 | 23 27 43 | 20 ¹⁰ 1'53 | 28 ¹⁰ 34 | 27 ¹⁰ 19 | 25 ¹⁰ 51 | 14 ¹⁰ 1 | 5 ¹⁰ 39 | 28 ¹⁰ 10 | 18 ¹⁰ 50 | 25 ¹⁰ 7 | 13 ¹⁰ R25 | 29 ¹⁰ 53 | 0 ¹⁰ 47 | 12 ¹⁰ 34 | 9 ¹⁰ 23 | M 5 |
| T 6 | 23 31 40 | 21 ¹⁰ 0'38 | 11 ¹⁰ 29 | 29 ¹⁰ 2 | 27 ¹⁰ 3 | 14 ¹⁰ 28 | 5 ¹⁰ 42 | 28 ¹⁰ 5 | 18 ¹⁰ 49 | 25 ¹⁰ 8 | 13 ¹⁰ 25 | 29 ¹⁰ 49 | 0 ¹⁰ 44 | 12 ¹⁰ 40 | 9 ¹⁰ 30 | T 6 |
| W 7 | 23 35 36 | 21 ¹⁰ 59'25 | 24 ¹⁰ 1 | 0 ¹⁰ 44 | 28 ¹⁰ 15 | 14 ¹⁰ 56 | 5 ¹⁰ 43 | 28 ¹⁰ 0 | 18 ¹⁰ 49 | 25 ¹⁰ 8 | 13 ¹⁰ 25 | 29 ¹⁰ 47 | 0 ¹⁰ 41 | 12 ¹⁰ 47 | 9 ¹⁰ 36 | W 7 |
| T 8 | 23 39 33 | 22 ¹⁰ 58'14 | 6 ¹⁰ 15 | 2 ¹⁰ 25 | 29 ¹⁰ 27 | 15 ¹⁰ 22 | 5 ¹⁰ 45 | 27 ¹⁰ 56 | 18 ¹⁰ 48 | 25 ¹⁰ 8 | 13 ¹⁰ 25 | 29 ¹⁰ D47 | 0 ¹⁰ 38 | 12 ¹⁰ 54 | 9 ¹⁰ 42 | T 8 |
| F 9 | 23 43 29 | 23 ¹⁰ 57'05 | 18 ¹⁰ 15 | 4 ¹⁰ 5 | 0 ¹⁰ 39 | 15 ¹⁰ 49 | 5 ¹⁰ 47 | 27 ¹⁰ 51 | 18 ¹⁰ 47 | 25 ¹⁰ 9 | 13 ¹⁰ 25 | 29 ¹⁰ R48 | 0 ¹⁰ 34 | 13 ¹⁰ 0 | 9 ¹⁰ 49 | F 9 |
| S 10 | 23 47 26 | 24 ¹⁰ 55'57 | 0 ¹⁰ 8 | 5 ¹⁰ 44 | 1 ¹⁰ 51 | 16 ¹⁰ 15 | 5 ¹⁰ 48 | 27 ¹⁰ 46 | 18 ¹⁰ 47 | 25 ¹⁰ 9 | 13 ¹⁰ 25 | 29 ¹⁰ 48 | 0 ¹⁰ 31 | 13 ¹⁰ 7 | 9 ¹⁰ 55 | S 10 |
| S 11 | 23 51 22 | 25 ¹⁰ 54'51 | 11 ¹⁰ 58 | 7 ¹⁰ 22 | 3 ¹⁰ 2 | 16 ¹⁰ 40 | 5 ¹⁰ 49 | 27 ¹⁰ 42 | 18 ¹⁰ 46 | 25 ¹⁰ 9 | 13 ¹⁰ 25 | 29 ¹⁰ 46 | 0 ¹⁰ 28 | 13 ¹⁰ 14 | 10 ¹⁰ 1 | S 11 |
| M 12 | 23 55 19 | 26 ¹⁰ 53'47 | 23 ¹⁰ 50 | 8 ¹⁰ 59 | 4 ¹⁰ 14 | 17 ¹⁰ 6 | 5 ¹⁰ 50 | 27 ¹⁰ 37 | 18 ¹⁰ 46 | 25 ¹⁰ 10 | 13 ¹⁰ 25 | 29 ¹⁰ 43 | 0 ¹⁰ 25 | 13 ¹⁰ 20 | 10 ¹⁰ 8 | M 12 |
| T 13 | 23 59 16 | 27 ¹⁰ 52'45 | 5 ¹⁰ 49 | 10 ¹⁰ 35 | 5 ¹⁰ 25 | 17 ¹⁰ 30 | 5 ¹⁰ 51 | 27 ¹⁰ 32 | 18 ¹⁰ 45 | 25 ¹⁰ 10 | 13 ¹⁰ 25 | 29 ¹⁰ 37 | 0 ¹⁰ 22 | 13 ¹⁰ 27 | 10 ¹⁰ 14 | T 13 |
| W 14 | 0 3 12 | 28 ¹⁰ 51'45 | 17 ¹⁰ 59 | 12 ¹⁰ 11 | 6 ¹⁰ 37 | 17 ¹⁰ 55 | 5 ¹⁰ 52 | 27 ¹⁰ 28 | 18 ¹⁰ 45 | 25 ¹⁰ 10 | 13 ¹⁰ 24 | 29 ¹⁰ 29 | 0 ¹⁰ 19 | 13 ¹⁰ 34 | 10 ¹⁰ 20 | W 14 |
| T 15 | 0 7 9 | 29 ¹⁰ 50'46 | 0 ¹⁰ 22 | 13 ¹⁰ 45 | 7 ¹⁰ 49 | 18 ¹⁰ 19 | 5 ¹⁰ 52 | 27 ¹⁰ 23 | 18 ¹⁰ 45 | 25 ¹⁰ 10 | 13 ¹⁰ 24 | 29 ¹⁰ 19 | 0 ¹⁰ 15 | 13 ¹⁰ 41 | 10 ¹⁰ 26 | T 15 |
| F 16 | 0 11 5 | 0 ¹⁰ 49'50 | 13 ¹⁰ 1 | 15 ¹⁰ 19 | 9 ¹⁰ 0 | 18 ¹⁰ 43 | 5 ¹⁰ R52 | 27 ¹⁰ 18 | 18 ¹⁰ 45 | 25 ¹⁰ 11 | 13 ¹⁰ 24 | 29 ¹⁰ 8 | 0 ¹⁰ 12 | 13 ¹⁰ 47 | 10 ¹⁰ 32 | F 16 |
| S 17 | 0 15 2 | 1 ¹⁰ 48'55 | 25 ¹⁰ 55 | 16 ¹⁰ 52 | 10 ¹⁰ 11 | 19 ¹⁰ 6 | 5 ¹⁰ 52 | 27 ¹⁰ 13 | 18 ¹⁰ 44 | 25 ¹⁰ 11 | 13 ¹⁰ 24 | 28 ¹⁰ 58 | 0 ¹⁰ 9 | 13 ¹⁰ 54 | 10 ¹⁰ 38 | S 17 |
| S 18 | 0 18 58 | 2 ¹⁰ 48'03 | 9 ¹⁰ 5 | 18 ¹⁰ 24 | 11 ¹⁰ 23 | 19 ¹⁰ 28 | 5 ¹⁰ 52 | 27 ¹⁰ 9 | 18 ¹⁰ 44 | 25 ¹⁰ 11 | 13 ¹⁰ 23 | 28 ¹⁰ 49 | 0 ¹⁰ 6 | 14 ¹⁰ 1 | 10 ¹⁰ 43 | S 18 |
| M 19 | 0 22 55 | 3 ¹⁰ 47'12 | 22 ¹⁰ 27 | 19 ¹⁰ 55 | 12 ¹⁰ 34 | 19 ¹⁰ 51 | 5 ¹⁰ 51 | 27 ¹⁰ 4 | 18 ¹⁰ 44 | 25 ¹⁰ 11 | 13 ¹⁰ 23 | 28 ¹⁰ 42 | 0 ¹⁰ 3 | 14 ¹⁰ 7 | 10 ¹⁰ 49 | M 19 |
| T 20 | 0 26 51 | 4 ¹⁰ 46'24 | 6 ¹⁰ 2 | 21 ¹⁰ 25 | 13 ¹⁰ 45 | 20 ¹⁰ 13 | 5 ¹⁰ 51 | 27 ¹⁰ 0 | 18 ¹⁰ D44 | 25 ¹⁰ R11 | 13 ¹⁰ 23 | 28 ¹⁰ 37 | 29 ¹⁰ 59 | 14 ¹⁰ 14 | 10 ¹⁰ 55 | T 20 |
| W 21 | 0 30 48 | 5 ¹⁰ 45'38 | 19 ¹⁰ 46 | 22 ¹⁰ 55 | 14 ¹⁰ 56 | 20 ¹⁰ 34 | 5 ¹⁰ 50 | 26 ¹⁰ 55 | 18 ¹⁰ 44 | 25 ¹⁰ 11 | 13 ¹⁰ 23 | 28 ¹⁰ 35 | 29 ¹⁰ 56 | 14 ¹⁰ 21 | 11 ¹⁰ 1 | W 21 |
| T 22 | 0 34 45 | 6 ¹⁰ 44'54 | 3 ¹⁰ 37 | 24 ¹⁰ 24 | 16 ¹⁰ 8 | 20 ¹⁰ 55 | 5 ¹⁰ 49 | 26 ¹⁰ 50 | 18 ¹⁰ 44 | 25 ¹⁰ 11 | 13 ¹⁰ 22 | 28 ¹⁰ D34 | 29 ¹⁰ 53 | 14 ¹⁰ 27 | 11 ¹⁰ 6 | T 22 |
| F 23 | 0 38 41 | 7 ¹⁰ 44'13 | 17 ¹⁰ 36 | 25 ¹⁰ 52 | 17 ¹⁰ 19 | 21 ¹⁰ 15 | 5 ¹⁰ 48 | 26 ¹⁰ 46 | 18 ¹⁰ 44 | 25 ¹⁰ 11 | 13 ¹⁰ 22 | 28 ¹⁰ 35 | 29 ¹⁰ 50 | 14 ¹⁰ 34 | 11 ¹⁰ 12 | F 23 |
| S 24 | 0 42 38 | 8 ¹⁰ 43'34 | 1 ¹⁰ 39 | 27 ¹⁰ 19 | 18 ¹⁰ 30 | 21 ¹⁰ 35 | 5 ¹⁰ 46 | 26 ¹⁰ 41 | 18 ¹⁰ 44 | 25 ¹⁰ 11 | 13 ¹⁰ 21 | 28 ¹⁰ 36 | 29 ¹⁰ 47 | 14 ¹⁰ 41 | 11 ¹⁰ 17 | S 24 |
| S 25 | 0 46 34 | 9 ¹⁰ 42'57 | 15 ¹⁰ 48 | 28 ¹⁰ 46 | 19 ¹⁰ 41 | 21 ¹⁰ 54 | 5 ¹⁰ 45 | 26 ¹⁰ 37 | 18 ¹⁰ 45 | 25 ¹⁰ 11 | 13 ¹⁰ 21 | 28 ¹⁰ R36 | 29 ¹⁰ 44 | 14 ¹⁰ 47 | 11 ¹⁰ 22 | S 25 |
| M 26 | 0 50 31 | 10 ¹⁰ 42'23 | 29 ¹⁰ 59 | 0 ¹⁰ 11 | 20 ¹⁰ 52 | 22 ¹⁰ 13 | 5 ¹⁰ 43 | 26 ¹⁰ 32 | 18 ¹⁰ 45 | 25 ¹⁰ 10 | 13 ¹⁰ 21 | 28 ¹⁰ 35 | 29 ¹⁰ 40 | 14 ¹⁰ 54 | 11 ¹⁰ 28 | M 26 |
| T 27 | 0 54 27 | 11 ¹⁰ 41'51 | 14 ¹⁰ 12 | 1 ¹⁰ 36 | 22 ¹⁰ 3 | 22 ¹⁰ 31 | 5 ¹⁰ 41 | 26 ¹⁰ 28 | 18 ¹⁰ 45 | 25 ¹⁰ 10 | 13 ¹⁰ 20 | 28 ¹⁰ 31 | 29 ¹⁰ 37 | 15 ¹⁰ 1 | 11 ¹⁰ 33 | T 27 |
| W 28 | 0 58 24 | 12 ¹⁰ 41'22 | 28 ¹⁰ 22 | 3 ¹⁰ 0 | 23 ¹⁰ 13 | 22 ¹⁰ 49 | 5 ¹⁰ 38 | 26 ¹⁰ 23 | 18 ¹⁰ 46 | 25 ¹⁰ 10 | 13 ¹⁰ 20 | 28 ¹⁰ 25 | 29 ¹⁰ 34 | 15 ¹⁰ 7 | 11 ¹⁰ 38 | W 28 |
| T 29 | 1 2 20 | 13 ¹⁰ 40'55 | 12 ¹⁰ 27 | 4 ¹⁰ 22 | 24 ¹⁰ 24 | 23 ¹⁰ 6 | 5 ¹⁰ 36 | 26 ¹⁰ 19 | 18 ¹⁰ 46 | 25 ¹⁰ 10 | 13 ¹⁰ 19 | 28 ¹⁰ 18 | 29 ¹⁰ 31 | 15 ¹⁰ 14 | 11 ¹⁰ 43 | T 29 |
| F 30 | 1 6 17 | 14 ¹⁰ 40'29 | 26 ¹⁰ 23 | 5 ¹⁰ 44 | 25 ¹⁰ 35 | 23 ¹⁰ 23 | 5 ¹⁰ 33 | 26 ¹⁰ 15 | 18 ¹⁰ 47 | 25 ¹⁰ 9 | 13 ¹⁰ 19 | 28 ¹⁰ 11 | 29 ¹⁰ 28 | 15 ¹⁰ 21 | 11 ¹⁰ 48 | F 30 |

Delta T = 07m41s

Julian Calendar 1 Sept. 1407 == Greg. Calendar 10 Sept. 1407

OCTOBER 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|-------------------------|----------------------|----------------------|---------------------|-----------------------|---------------------|----------------------|---------------------|----------------------|----------------------|----------------------|---------------------|---------------------|---------------------|------|
| S 1 | 1 10 14 | 15 ¹⁰ 40'06 | 10 ¹⁰ 5 | 7 ¹⁰ 5 | 26 ¹⁰ 46 | 23 ¹⁰ 39 | 5 ¹⁰ R31 | 26 ¹⁰ R10 | 18 ¹⁰ 47 | 25 ¹⁰ R 9 | 13 ¹⁰ R18 | 28 ¹⁰ R 4 | 29 ¹⁰ 25 | 15 ¹⁰ 27 | 11 ¹⁰ 53 | S 1 |
| S 2 | 1 14 10 | 16 ¹⁰ 39'46 | 23 ¹⁰ 30 | 8 ¹⁰ 25 | 27 ¹⁰ 56 | 23 ¹⁰ 54 | 5 ¹⁰ 27 | 26 ¹⁰ 6 | 18 ¹⁰ 48 | 25 ¹⁰ 9 | 13 ¹⁰ 18 | 27 ¹⁰ 58 | 29 ¹⁰ 21 | 15 ¹⁰ 34 | 11 ¹⁰ 58 | S 2 |
| M 3 | 1 18 7 | 17 ¹⁰ 39'27 | 6 ¹⁰ 36 | 9 ¹⁰ 43 | 29 ¹⁰ 7 | 24 ¹⁰ 9 | 5 ¹⁰ 24 | 26 ¹⁰ 2 | 18 ¹⁰ 48 | 25 ¹⁰ 8 | 13 ¹⁰ 17 | 27 ¹⁰ 54 | 29 ¹⁰ 18 | 15 ¹⁰ 41 | 12 ¹⁰ 3 | M 3 |
| T 4 | 1 22 3 | 18 ¹⁰ 39'10 | 19 ¹⁰ 22 | 11 ¹⁰ 1 | 0 ¹⁰ 17 | 24 ¹⁰ 23 | 5 ¹⁰ 21 | 25 ¹⁰ 58 | 18 ¹⁰ 49 | 25 ¹⁰ 8 | 13 ¹⁰ 16 | 27 ¹⁰ 52 | 29 ¹⁰ 15 | 15 ¹⁰ 48 | 12 ¹⁰ 7 | T 4 |
| W 5 | 1 26 0 | 19 ¹⁰ 38'55 | 1 ¹⁰ 51 | 12 ¹⁰ 17 | 1 ¹⁰ 27 | 24 ¹⁰ 36 | 5 ¹⁰ 17 | 25 ¹⁰ 53 | 18 ¹⁰ 50 | 25 ¹⁰ 7 | 13 ¹⁰ 16 | 27 ¹⁰ D52 | 29 ¹⁰ 12 | 15 ¹⁰ 54 | 12 ¹⁰ 12 | W 5 |
| T 6 | 1 29 56 | 20 ¹⁰ 38'42 | 14 ¹⁰ 4 | 13 ¹⁰ 31 | 2 ¹⁰ 38 | 24 ¹⁰ 49 | 5 ¹⁰ 13 | 25 ¹⁰ 49 | 18 ¹⁰ 50 | 25 ¹⁰ 7 | 13 ¹⁰ 15 | 27 ¹⁰ 53 | 29 ¹⁰ 9 | 16 ¹⁰ 1 | 12 ¹⁰ 17 | T 6 |
| F 7 | 1 33 53 | 21 ¹⁰ 38'30 | 26 ¹⁰ 5 | 14 ¹⁰ 45 | 3 ¹⁰ 48 | 25 ¹⁰ 1 | 5 ¹⁰ 9 | 25 ¹⁰ 45 | 18 ¹⁰ 51 | 25 ¹⁰ 6 | 13 ¹⁰ 14 | 27 ¹⁰ 54 | 29 ¹⁰ 5 | 16 ¹⁰ 8 | 12 ¹⁰ 21 | F 7 |
| S 8 | 1 37 49 | 22 ¹⁰ 38'21 | 7 ¹⁰ 58 | 15 ¹⁰ 56 | 4 ¹⁰ 58 | 25 ¹⁰ 13 | 5 ¹⁰ 5 | 25 ¹⁰ 42 | 18 ¹⁰ 52 | 25 ¹⁰ 6 | 13 ¹⁰ 14 | 27 ¹⁰ 56 | 29 ¹⁰ 2 | 16 ¹⁰ 14 | 12 ¹⁰ 25 | S 8 |
| S 9 | 1 41 46 | 23 ¹⁰ 38'13 | 19 ¹⁰ 48 | 17 ¹⁰ 5 | 6 ¹⁰ 8 | 25 ¹⁰ 23 | 5 ¹⁰ 1 | 25 ¹⁰ 38 | 18 ¹⁰ 53 | 25 ¹⁰ 5 | 13 ¹⁰ 13 | 27 ¹⁰ R57 | 28 ¹⁰ 59 | 16 ¹⁰ 21 | 12 ¹⁰ 30 | S 9 |
| M10 | 1 45 43 | 24 ¹⁰ 38'07 | 1 ¹⁰ 41 | 18 ¹⁰ 13 | 7 ¹⁰ 18 | 25 ¹⁰ 34 | 4 ¹⁰ 56 | 25 ¹⁰ 34 | 18 ¹⁰ 54 | 25 ¹⁰ 4 | 13 ¹⁰ 12 | 27 ¹⁰ 57 | 28 ¹⁰ 56 | 16 ¹⁰ 28 | 12 ¹⁰ 34 | M10 |
| T 11 | 1 49 39 | 25 ¹⁰ 38'02 | 13 ¹⁰ 40 | 19 ¹⁰ 18 | 8 ¹⁰ 28 | 25 ¹⁰ 43 | 4 ¹⁰ 52 | 25 ¹⁰ 30 | 18 ¹⁰ 55 | 25 ¹⁰ 4 | 13 ¹⁰ 12 | 27 ¹⁰ 55 | 28 ¹⁰ 53 | 16 ¹⁰ 34 | 12 ¹⁰ 38 | T 11 |
| W12 | 1 53 36 | 26 ¹⁰ 37'59 | 25 ¹⁰ 52 | 20 ¹⁰ 21 | 9 ¹⁰ 38 | 25 ¹⁰ 52 | 4 ¹⁰ 47 | 25 ¹⁰ 26 | 18 ¹⁰ 56 | 25 ¹⁰ 3 | 13 ¹⁰ 11 | 27 ¹⁰ 52 | 28 ¹⁰ 50 | 16 ¹⁰ 41 | 12 ¹⁰ 42 | W12 |
| T 13 | 1 57 32 | 27 ¹⁰ 37'58 | 8 ¹⁰ 19 | 21 ¹⁰ 21 | 10 ¹⁰ 48 | 25 ¹⁰ 59 | 4 ¹⁰ 42 | 25 ¹⁰ 23 | 18 ¹⁰ 57 | 25 ¹⁰ 2 | 13 ¹⁰ 10 | 27 ¹⁰ 48 | 28 ¹⁰ 46 | 16 ¹⁰ 48 | 12 ¹⁰ 46 | T 13 |
| F 14 | 2 1 29 | 28 ¹⁰ 37'59 | 21 ¹⁰ 5 | 22 ¹⁰ 18 | 11 ¹⁰ 57 | 26 ¹⁰ 7 | 4 ¹⁰ 37 | 25 ¹⁰ 19 | 18 ¹⁰ 59 | 25 ¹⁰ 2 | 13 ¹⁰ 9 | 27 ¹⁰ 43 | 28 ¹⁰ 43 | 16 ¹⁰ 54 | 12 ¹⁰ 50 | F 14 |
| S 15 | 2 5 25 | 29 ¹⁰ 38'01 | 4 ¹⁰ Y10 | 23 ¹⁰ 11 | 13 ¹⁰ 7 | 26 ¹⁰ 13 | 4 ¹⁰ 31 | 25 ¹⁰ 16 | 19 ¹⁰ 0 | 25 ¹⁰ 1 | 13 ¹⁰ 9 | 27 ¹⁰ 38 | 28 ¹⁰ 40 | 17 ¹⁰ 1 | 12 ¹⁰ 53 | S 15 |
| S 16 | 2 9 22 | 0 ¹⁰ M38'05 | 17 ¹⁰ 36 | 24 ¹⁰ 1 | 14 ¹⁰ 16 | 26 ¹⁰ 19 | 4 ¹⁰ 26 | 25 ¹⁰ 12 | 19 ¹⁰ 1 | 25 ¹⁰ 0 | 13 ¹⁰ 8 | 27 ¹⁰ 34 | 28 ¹⁰ 37 | 17 ¹⁰ 8 | 12 ¹⁰ 57 | S 16 |
| M17 | 2 13 18 | 1 ¹⁰ 38'11 | 1 ¹⁰ 821 | 24 ¹⁰ 47 | 15 ¹⁰ 26 | 26 ¹⁰ 24 | 4 ¹⁰ 20 | 25 ¹⁰ 9 | 19 ¹⁰ 2 | 24 ¹⁰ 59 | 13 ¹⁰ 7 | 27 ¹⁰ 31 | 28 ¹⁰ 34 | 17 ¹⁰ 14 | 13 ¹⁰ 0 | M17 |
| T 18 | 2 17 15 | 2 ¹⁰ 38'19 | 15 ¹⁰ 21 | 25 ¹⁰ 27 | 16 ¹⁰ 35 | 26 ¹⁰ 28 | 4 ¹⁰ 14 | 25 ¹⁰ 6 | 19 ¹⁰ 4 | 24 ¹⁰ 58 | 13 ¹⁰ 6 | 27 ¹⁰ 29 | 28 ¹⁰ 31 | 17 ¹⁰ 21 | 13 ¹⁰ 4 | T 18 |
| W19 | 2 21 11 | 3 ¹⁰ 38'28 | 29 ¹⁰ 32 | 26 ¹⁰ 3 | 17 ¹⁰ 44 | 26 ¹⁰ 31 | 4 ¹⁰ 8 | 25 ¹⁰ 3 | 19 ¹⁰ 5 | 24 ¹⁰ 57 | 13 ¹⁰ 5 | 27 ¹⁰ D29 | 28 ¹⁰ 27 | 17 ¹⁰ 28 | 13 ¹⁰ 7 | W19 |
| T 20 | 2 25 8 | 4 ¹⁰ 38'40 | 13 ¹⁰ 151 | 26 ¹⁰ 32 | 18 ¹⁰ 53 | 26 ¹⁰ 33 | 4 ¹⁰ 2 | 25 ¹⁰ 0 | 19 ¹⁰ 7 | 24 ¹⁰ 56 | 13 ¹⁰ 4 | 27 ¹⁰ 29 | 28 ¹⁰ 24 | 17 ¹⁰ 35 | 13 ¹⁰ 11 | T 20 |
| F 21 | 2 29 5 | 5 ¹⁰ 38'54 | 28 ¹⁰ 12 | 26 ¹⁰ 56 | 20 ¹⁰ 2 | 26 ¹⁰ 35 | 3 ¹⁰ 56 | 24 ¹⁰ 57 | 19 ¹⁰ 8 | 24 ¹⁰ 55 | 13 ¹⁰ 4 | 27 ¹⁰ 31 | 28 ¹⁰ 21 | 17 ¹⁰ 41 | 13 ¹⁰ 14 | F 21 |
| S 22 | 2 33 1 | 6 ¹⁰ 39'10 | 12 ¹⁰ 33 | 27 ¹⁰ 11 | 21 ¹⁰ 11 | 26 ¹⁰ R36 | 3 ¹⁰ 49 | 24 ¹⁰ 54 | 19 ¹⁰ 10 | 24 ¹⁰ 54 | 13 ¹⁰ 3 | 27 ¹⁰ 32 | 28 ¹⁰ 18 | 17 ¹⁰ 48 | 13 ¹⁰ 17 | S 22 |
| S 23 | 2 36 58 | 7 ¹⁰ 39'28 | 26 ¹⁰ 49 | 27 ¹⁰ R20 | 22 ¹⁰ 19 | 26 ¹⁰ 36 | 3 ¹⁰ 43 | 24 ¹⁰ 51 | 19 ¹⁰ 11 | 24 ¹⁰ 53 | 13 ¹⁰ 2 | 27 ¹⁰ 33 | 28 ¹⁰ 15 | 17 ¹⁰ 55 | 13 ¹⁰ 20 | S 23 |
| M24 | 2 40 54 | 8 ¹⁰ 39'47 | 10 ¹⁰ 58 | 27 ¹⁰ 19 | 23 ¹⁰ 28 | 26 ¹⁰ 35 | 3 ¹⁰ 36 | 24 ¹⁰ 48 | 19 ¹⁰ 13 | 24 ¹⁰ 52 | 13 ¹⁰ 1 | 27 ¹⁰ R34 | 28 ¹⁰ 11 | 18 ¹⁰ 1 | 13 ¹⁰ 23 | M24 |
| T 25 | 2 44 51 | 9 ¹⁰ 40'09 | 24 ¹⁰ 59 | 27 ¹⁰ 10 | 24 ¹⁰ 36 | 26 ¹⁰ 33 | 3 ¹⁰ 29 | 24 ¹⁰ 46 | 19 ¹⁰ 15 | 24 ¹⁰ 51 | 13 ¹⁰ 0 | 27 ¹⁰ 33 | 28 ¹⁰ 8 | 18 ¹⁰ 8 | 13 ¹⁰ 25 | T 25 |
| W26 | 2 48 47 | 10 ¹⁰ 40'33 | 8 ¹⁰ 51 | 26 ¹⁰ 50 | 25 ¹⁰ 44 | 26 ¹⁰ 31 | 3 ¹⁰ 22 | 24 ¹⁰ 43 | 19 ¹⁰ 16 | 24 ¹⁰ 50 | 12 ¹⁰ 59 | 27 ¹⁰ 31 | 28 ¹⁰ 5 | 18 ¹⁰ 15 | 13 ¹⁰ 28 | W26 |
| T 27 | 2 52 44 | 11 ¹⁰ 40'59 | 22 ¹⁰ 31 | 26 ¹⁰ 21 | 26 ¹⁰ 52 | 26 ¹⁰ 27 | 3 ¹⁰ 15 | 24 ¹⁰ 41 | 19 ¹⁰ 18 | 24 ¹⁰ 49 | 12 ¹⁰ 58 | 27 ¹⁰ 29 | 28 ¹⁰ 2 | 18 ¹⁰ 21 | 13 ¹⁰ 31 | T 27 |
| F 28 | 2 56 41 | 12 ¹⁰ 41'27 | 5 ¹⁰ 59 | 25 ¹⁰ 42 | 28 ¹⁰ 0 | 26 ¹⁰ 23 | 3 ¹⁰ 8 | 24 ¹⁰ 38 | 19 ¹⁰ 20 | 24 ¹⁰ 48 | 12 ¹⁰ 57 | 27 ¹⁰ 27 | 27 ¹⁰ 59 | 18 ¹⁰ 28 | 13 ¹⁰ 33 | F 28 |
| S 29 | 3 0 37 | 13 ¹⁰ 41'56 | 19 ¹⁰ 13 | 24 ¹⁰ 52 | 29 ¹⁰ 8 | 26 ¹⁰ 18 | 3 ¹⁰ 1 | 24 ¹⁰ 36 | 19 ¹⁰ 22 | 24 ¹⁰ 47 | 12 ¹⁰ 56 | 27 ¹⁰ 25 | 27 ¹⁰ 56 | 18 ¹⁰ 35 | 13 ¹⁰ 35 | S 29 |
| S 30 | 3 4 34 | 14 ¹⁰ 42'27 | 2 ¹⁰ M14 | 23 ¹⁰ 53 | 0 ¹⁰ 316 | 26 ¹⁰ 11 | 2 ¹⁰ 53 | 24 ¹⁰ 34 | 19 ¹⁰ 24 | 24 ¹⁰ 46 | 12 ¹⁰ 55 | 27 ¹⁰ 24 | 27 ¹⁰ 52 | 18 ¹⁰ 41 | 13 ¹⁰ 38 | S 30 |
| M31 | 3 8 30 | 15 ¹⁰ M43'00 | 15 ¹⁰ M 1 | 22 ¹⁰ M46 | 1 ¹⁰ 324 | 26 ¹⁰ 11 4 | 2 ¹⁰ 46 | 24 ¹⁰ M32 | 19 ¹⁰ 26 | 24 ¹⁰ 44 | 12 ¹⁰ 54 | 27 ¹⁰ 23 | 27 ¹⁰ 49 | 18 ¹⁰ 48 | 13 ¹⁰ 40 | M31 |

ASTRODIENST EPHEMERIS for the year 1407

geocentric

NOVEMBER 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|--------|--------|-------|--------|-------|--------|-------|--------|--------|--------|-------|-------|--------|------|
| T 1 | 3 12 27 | 16♌43'35 | 27♍34 | 21°R32 | 2♌31 | 25°R57 | 2°R38 | 24°R30 | 19♌28 | 24°R43 | 12°R53 | 27°D22 | 27♌46 | 18♌55 | 13♌42 | T 1 |
| W 2 | 3 16 23 | 17°44'11 | 9♌54 | 20♌13 | 3°38 | 25♌48 | 2♌30 | 24♌28 | 19°30 | 24♌42 | 12♌52 | 27♌23 | 27°43 | 19° 2 | 13°44 | W 2 |
| T 3 | 3 20 20 | 18°44'48 | 22° 2 | 18°52 | 4°45 | 25°38 | 2°23 | 24°26 | 19°32 | 24°41 | 12°51 | 27°23 | 27°40 | 19° 8 | 13°46 | T 3 |
| F 4 | 3 24 16 | 19°45'27 | 4♌ 0 | 17°31 | 5°52 | 25°28 | 2°15 | 24°24 | 19°34 | 24°39 | 12°50 | 27°24 | 27°37 | 19°15 | 13°47 | F 4 |
| S 5 | 3 28 13 | 20°46'07 | 15°53 | 16°13 | 6°59 | 25°16 | 2° 7 | 24°23 | 19°36 | 24°38 | 12°49 | 27°25 | 27°33 | 19°22 | 13°49 | S 5 |
| S 6 | 3 32 10 | 21°46'49 | 27°43 | 15° 0 | 8° 5 | 25° 4 | 1°59 | 24°21 | 19°39 | 24°37 | 12°48 | 27°26 | 27°30 | 19°28 | 13°50 | S 6 |
| M 7 | 3 36 6 | 22°47'31 | 9♌34 | 13°56 | 9°12 | 24°51 | 1°51 | 24°20 | 19°41 | 24°35 | 12°47 | 27°26 | 27°27 | 19°35 | 13°52 | M 7 |
| T 8 | 3 40 3 | 23°48'15 | 21°32 | 13° 1 | 10°18 | 24°37 | 1°43 | 24°19 | 19°43 | 24°34 | 12°46 | 27°R26 | 27°24 | 19°42 | 13°53 | T 8 |
| W 9 | 3 43 59 | 24°48'59 | 3♌41 | 12°16 | 11°24 | 24°23 | 1°35 | 24°18 | 19°46 | 24°32 | 12°44 | 27°26 | 27°21 | 19°48 | 13°54 | W 9 |
| T 10 | 3 47 56 | 25°49'45 | 16° 5 | 11°43 | 12°29 | 24° 7 | 1°27 | 24°17 | 19°48 | 24°31 | 12°43 | 27°26 | 27°17 | 19°55 | 13°55 | T 10 |
| F 11 | 3 51 52 | 26°50'32 | 28°50 | 11°22 | 13°35 | 23°51 | 1°19 | 24°16 | 19°50 | 24°29 | 12°42 | 27°26 | 27°14 | 20° 2 | 13°56 | F 11 |
| S 12 | 3 55 49 | 27°51'19 | 11°V56 | 11°D12 | 14°40 | 23°34 | 1°11 | 24°15 | 19°53 | 24°28 | 12°41 | 27°D26 | 27°11 | 20° 8 | 13°57 | S 12 |
| S 13 | 3 59 45 | 28°52'08 | 25°28 | 11°13 | 15°45 | 23°17 | 1° 3 | 24°14 | 19°55 | 24°27 | 12°40 | 27°26 | 27° 8 | 20°15 | 13°58 | S 13 |
| M14 | 4 3 42 | 29°52'58 | 9♌24 | 11°25 | 16°49 | 22°59 | 0°54 | 24°13 | 19°58 | 24°25 | 12°39 | 27°26 | 27° 5 | 20°22 | 13°59 | M14 |
| T 15 | 4 7 39 | 0♌53'49 | 23°42 | 11°46 | 17°54 | 22°40 | 0°46 | 24°13 | 20° 0 | 24°24 | 12°38 | 27°R26 | 27° 2 | 20°29 | 13°59 | T 15 |
| W16 | 4 11 35 | 1°54'41 | 8♌18 | 12°15 | 18°58 | 22°20 | 0°38 | 24°13 | 20° 3 | 24°22 | 12°37 | 27°26 | 26°58 | 20°35 | 13°59 | W16 |
| T 17 | 4 15 32 | 2°55'34 | 23° 5 | 12°52 | 20° 2 | 22° 0 | 0°30 | 24°12 | 20° 6 | 24°20 | 12°35 | 27°26 | 26°55 | 20°42 | 14° 0 | T 17 |
| F 18 | 4 19 28 | 3°56'28 | 7♌55 | 13°36 | 21° 5 | 21°40 | 0°22 | 24°12 | 20° 8 | 24°19 | 12°34 | 27°25 | 26°52 | 20°49 | 14° 0 | F 18 |
| S 19 | 4 23 25 | 4°57'24 | 22°42 | 14°27 | 22° 8 | 21°19 | 0°14 | 24°D12 | 20°11 | 24°17 | 12°33 | 27°25 | 26°49 | 20°55 | 14°R 0 | S 19 |
| S 20 | 4 27 21 | 5°58'21 | 7♌19 | 15°22 | 23°11 | 20°57 | 0° 5 | 24°12 | 20°14 | 24°16 | 12°32 | 27°24 | 26°46 | 21° 2 | 14° 0 | S 20 |
| M21 | 4 31 18 | 6°59'19 | 21°40 | 16°22 | 24°14 | 20°35 | 29♌57 | 24°12 | 20°17 | 24°14 | 12°31 | 27°23 | 26°43 | 21° 9 | 14° 0 | M21 |
| T 22 | 4 35 14 | 8° 0'18 | 5♌43 | 17°27 | 25°16 | 20°13 | 29°49 | 24°12 | 20°19 | 24°13 | 12°30 | 27°D23 | 26°39 | 21°15 | 14° 0 | T 22 |
| W23 | 4 39 11 | 9° 1'19 | 19°27 | 18°34 | 26°18 | 19°50 | 29°41 | 24°13 | 20°22 | 24°11 | 12°29 | 27°23 | 26°36 | 21°22 | 13°59 | W23 |
| T 24 | 4 43 8 | 10° 2'20 | 2♌53 | 19°45 | 27°20 | 19°27 | 29°33 | 24°13 | 20°25 | 24° 9 | 12°27 | 27°23 | 26°33 | 21°29 | 13°59 | T 24 |
| F 25 | 4 47 4 | 11° 3'23 | 16° 1 | 20°59 | 28°21 | 19° 4 | 29°25 | 24°14 | 20°28 | 24° 8 | 12°26 | 27°25 | 26°30 | 21°36 | 13°58 | F 25 |
| S 26 | 4 51 1 | 12° 4'27 | 28°53 | 22°15 | 29°21 | 18°40 | 29°18 | 24°15 | 20°31 | 24° 6 | 12°25 | 27°26 | 26°27 | 21°42 | 13°57 | S 26 |
| S 27 | 4 54 57 | 13° 5'32 | 11♌32 | 23°33 | 0♌22 | 18°17 | 29°10 | 24°15 | 20°34 | 24° 4 | 12°24 | 27°27 | 26°23 | 21°49 | 13°57 | S 27 |
| M28 | 4 58 54 | 14° 6'37 | 23°59 | 24°52 | 1°22 | 17°53 | 29° 2 | 24°16 | 20°37 | 24° 3 | 12°23 | 27°R28 | 26°20 | 21°56 | 13°56 | M28 |
| T 29 | 5 2 50 | 15° 7'44 | 6♌15 | 26°13 | 2°21 | 17°29 | 28°55 | 24°17 | 20°40 | 24° 1 | 12°22 | 27°27 | 26°17 | 22° 2 | 13°55 | T 29 |
| W30 | 5 6 47 | 16♌ 8'51 | 18♌23 | 27♌36 | 3♌20 | 17♌ 6 | 28♌47 | 24♌18 | 20♌43 | 23♌59 | 12♌20 | 27♌26 | 26♌14 | 22♌ 9 | 13♌54 | W30 |

Delta T = 07m40s

Julian Calendar 1 Nov. 1407 == Greg. Calendar 10 Nov. 1407

DECEMBER 1407 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|--------|--------|-------|-------|--------|--------|--------|-------|-------|--------|------|
| T 1 | 5 10 43 | 17♌ 9'59 | 0♌24 | 28♌59 | 4♌19 | 16°R42 | 28°R40 | 24♌20 | 20♌46 | 23°R58 | 12°R19 | 27°R24 | 26♌11 | 22♌16 | 13°R52 | T 1 |
| F 2 | 5 14 40 | 18°11'07 | 12°19 | 0♌24 | 5°17 | 16♌19 | 28♌32 | 24°21 | 20°49 | 23♌56 | 12♌18 | 27♌21 | 26° 8 | 22°22 | 13♌51 | F 2 |
| S 3 | 5 18 37 | 19°12'16 | 24°10 | 1°50 | 6°15 | 15°55 | 28°25 | 24°22 | 20°52 | 23°54 | 12°17 | 27°17 | 26° 4 | 22°29 | 13°50 | S 3 |
| S 4 | 5 22 33 | 20°13'25 | 6♌ 0 | 3°16 | 7°12 | 15°32 | 28°18 | 24°24 | 20°55 | 23°53 | 12°16 | 27°13 | 26° 1 | 22°36 | 13°48 | S 4 |
| M 5 | 5 26 30 | 21°14'35 | 17°51 | 4°43 | 8° 8 | 15°10 | 28°11 | 24°26 | 20°59 | 23°51 | 12°15 | 27° 9 | 25°58 | 22°43 | 13°46 | M 5 |
| T 6 | 5 30 26 | 22°15'44 | 29°48 | 6°11 | 9° 4 | 14°47 | 28° 4 | 24°27 | 21° 2 | 23°49 | 12°13 | 27° 6 | 25°55 | 22°49 | 13°45 | T 6 |
| W 7 | 5 34 23 | 23°16'54 | 11♌53 | 7°39 | 9°59 | 14°25 | 27°58 | 24°29 | 21° 5 | 23°47 | 12°12 | 27° 4 | 25°52 | 22°56 | 13°43 | W 7 |
| T 8 | 5 38 19 | 24°18'03 | 24°13 | 9° 7 | 10°54 | 14° 3 | 27°51 | 24°31 | 21° 8 | 23°46 | 12°11 | 27°D 4 | 25°49 | 23° 3 | 13°41 | T 8 |
| F 9 | 5 42 16 | 25°19'13 | 6♌50 | 10°37 | 11°48 | 13°42 | 27°45 | 24°33 | 21°11 | 23°44 | 12°10 | 27° 4 | 25°45 | 23° 9 | 13°39 | F 9 |
| S 10 | 5 46 12 | 26°20'23 | 19°49 | 12° 6 | 12°42 | 13°21 | 27°38 | 24°36 | 21°15 | 23°42 | 12° 9 | 27° 6 | 25°42 | 23°16 | 13°37 | S 10 |
| S 11 | 5 50 9 | 27°21'33 | 3♌15 | 13°36 | 13°34 | 13° 1 | 27°32 | 24°38 | 21°18 | 23°41 | 12° 8 | 27° 7 | 25°39 | 23°23 | 13°34 | S 11 |
| M12 | 5 54 6 | 28°22'42 | 17° 8 | 15° 7 | 14°26 | 12°41 | 27°26 | 24°40 | 21°21 | 23°39 | 12° 7 | 27° 9 | 25°36 | 23°29 | 13°32 | M12 |
| T 13 | 5 58 2 | 29°23'52 | 1♌28 | 16°37 | 15°17 | 12°22 | 27°20 | 24°43 | 21°25 | 23°37 | 12° 5 | 27°R 9 | 25°33 | 23°36 | 13°29 | T 13 |
| W14 | 6 1 59 | 0♌25'02 | 16°14 | 18° 8 | 16° 8 | 12° 4 | 27°15 | 24°45 | 21°28 | 23°36 | 12° 4 | 27° 8 | 25°29 | 23°43 | 13°27 | W14 |
| T 15 | 6 5 55 | 1°26'12 | 1♌17 | 19°40 | 16°57 | 11°46 | 27° 9 | 24°48 | 21°31 | 23°34 | 12° 3 | 27° 5 | 25°26 | 23°50 | 13°24 | T 15 |
| F 16 | 6 9 52 | 2°27'22 | 16°30 | 21°12 | 17°46 | 11°29 | 27° 4 | 24°51 | 21°35 | 23°32 | 12° 2 | 27° 0 | 25°23 | 23°56 | 13°22 | F 16 |
| S 17 | 6 13 48 | 3°28'32 | 1♌42 | 22°44 | 18°34 | 11°12 | 26°58 | 24°54 | 21°38 | 23°31 | 12° 1 | 26°55 | 25°20 | 24° 3 | 13°19 | S 17 |
| S 18 | 6 17 45 | 4°29'42 | 16°43 | 24°16 | 19°21 | 10°57 | 26°53 | 24°57 | 21°42 | 23°29 | 12° 0 | 26°49 | 25°17 | 24°10 | 13°16 | S 18 |
| M19 | 6 21 42 | 5°30'52 | 1♌24 | 25°49 | 20° 7 | 10°42 | 26°48 | 25° 0 | 21°45 | 23°27 | 11°59 | 26°44 | 25°14 | 24°16 | 13°13 | M19 |
| T 20 | 6 25 38 | 6°32'02 | 15°41 | 27°23 | 20°52 | 10°27 | 26°44 | 25° 3 | 21°48 | 23°26 | 11°58 | 26°40 | 25°10 | 24°23 | 13°10 | T 20 |
| W21 | 6 29 35 | 7°33'12 | 29°32 | 28°56 | 21°35 | 10°14 | 26°39 | 25° 6 | 21°52 | 23°24 | 11°57 | 26°38 | 25° 7 | 24°30 | 13° 7 | W21 |
| T 22 | 6 33 31 | 8°34'23 | 12♌56 | 0♌30 | 22°18 | 10° 1 | 26°35 | 25°10 | 21°55 | 23°22 | 11°56 | 26°D38 | 25° 4 | 24°36 | 13° 3 | T 22 |
| F 23 | 6 37 28 | 9°35'33 | 25°57 | 2° 5 | 23° 0 | 9°49 | 26°31 | 25°13 | 21°59 | 23°21 | 11°55 | 26°39 | 25° 1 | 24°43 | 13° 0 | F 23 |
| S 24 | 6 41 24 | 10°36'44 | 8♌37 | 3°40 | 23°40 | 9°38 | 26°27 | 25°17 | 22° 2 | 23°19 | 11°54 | 26°41 | 24°58 | 24°50 | 12°57 | S 24 |
| S 25 | 6 45 21 | 11°37'54 | 21° 2 | 5°15 | 24°20 | 9°27 | 26°23 | 25°20 | 22° 6 | 23°17 | 11°53 | 26°R42 | 24°55 | 24°57 | 12°53 | S 25 |
| M26 | 6 49 17 | 12°39'05 | 3♌14 | 6°51 | 24°58 | 9°18 | 26°19 | 25°24 | 22° 9 | 23°16 | 11°52 | 26°42 | 24°51 | 25° 3 | 12°50 | M26 |
| T 27 | 6 53 14 | 13°40'15 | 15°18 | 8°27 | 25°34 | 9° 9 | 26°16 | 25°28 | 22°13 | 23°14 | 11°51 | 26°40 | 24°48 | 25°10 | 12°46 | T 27 |
| W28 | 6 57 11 | 14°41'25 | 27°15 | 10° 4 | 26°10 | 9° 1 | 26°13 | 25°32 | 22°16 | 23°13 | 11°50 | 26°35 | 24°45 | 25°17 | 12°42 | W28 |
| T 29 | 7 1 7 | 15°42'35 | 9♌ 9 | 11°41 | 26°44 | 8°54 | 26°10 | 25°36 | 22°20 | 23°11 | 11°49 | 26°28 | 24°42 | 25°23 | 12°38 | T 29 |
| F 30 | 7 5 4 | 16°43'44 | 21° 0 | 13°18 | 27°16 | 8°48 | 26° 7 | 25°40 | 22°23 | 23°10 | 11°48 | 26°19 | 24°39 | 25°30 | 12°35 | F 30 |
| S 31 | 7 9 0 | 17♌44'52 | 2♌51 | 14♌57 | 27♌47 | 8♌42 | 26♌ 4 | 25♌44 | 22♌27 | 23♌ 8 | 11♌47 | 26♌ 9 | 24♌35 | 25♌37 | 12♌31 | S 31 |

Delta T = 07m40s

Julian Calendar