



Astrodienst Ephemeris Tables for the year 1523

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 1523
geocentric

JANUARY 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|---------|-------|-------|--------|-------|-------|--------|------|-------|--------|--------|-------|-------|------|
| T 1 | 7 17 28 | 19°51'57 | 6°59' 9 | 9°R 0 | 6°57 | 18°21 | 4°41 | 25°2 | 25°R26 | 3°57 | 13°37 | 18°R47 | 20°15 | 25°27 | 22°16 | T 1 |
| F 2 | 7 21 24 | 20°53'02 | 21°29 | 8°37 | 7°58 | 18°28 | 4°55 | 25°9 | 25°R25 | 3°58 | 13°39 | 18°R38 | 20°12 | 25°34 | 22°20 | F 2 |
| S 3 | 7 25 21 | 21°54'07 | 6°48 | 7°23 | 8°59 | 18°34 | 5°9 | 25°15 | 25°23 | 4°0 | 13°41 | 18°30 | 20°8 | 25°41 | 22°24 | S 3 |
| S 4 | 7 29 18 | 22°55'11 | 21°56 | 6°49 | 10°0 | 18°39 | 5°23 | 25°22 | 25°22 | 4°2 | 13°43 | 18°25 | 20°5 | 25°47 | 22°28 | S 4 |
| M 5 | 7 33 14 | 23°56'14 | 6°43 | 6°23 | 11°0 | 18°43 | 5°38 | 25°28 | 25°21 | 4°4 | 13°45 | 18°22 | 20°2 | 25°54 | 22°32 | M 5 |
| T 6 | 7 37 11 | 24°57'17 | 21°4 | 6°7 | 11°59 | 18°47 | 5°52 | 25°35 | 25°20 | 4°6 | 13°47 | 18°D22 | 19°59 | 26°1 | 22°36 | T 6 |
| W 7 | 7 41 7 | 25°58'20 | 4°58 | 6°D 0 | 12°58 | 18°50 | 6°6 | 25°41 | 25°20 | 4°7 | 13°49 | 18°22 | 19°56 | 26°8 | 22°39 | W 7 |
| T 8 | 7 45 4 | 26°59'22 | 18°25 | 6°1 | 13°57 | 18°52 | 6°20 | 25°48 | 25°19 | 4°9 | 13°51 | 18°24 | 19°53 | 26°14 | 22°43 | T 8 |
| F 9 | 7 49 0 | 28°0'23 | 1°27 | 6°10 | 14°55 | 18°54 | 6°34 | 25°55 | 25°18 | 4°11 | 13°53 | 18°R24 | 19°49 | 26°21 | 22°47 | F 9 |
| S 10 | 7 52 57 | 29°1'24 | 14°8 | 6°26 | 15°52 | 18°54 | 6°49 | 26°1 | 25°17 | 4°13 | 13°55 | 18°22 | 19°46 | 26°28 | 22°51 | S 10 |
| S 11 | 7 56 53 | 0°2'24 | 26°33 | 6°48 | 16°49 | 18°R54 | 7°3 | 26°8 | 25°16 | 4°15 | 13°57 | 18°19 | 19°43 | 26°34 | 22°55 | S 11 |
| M 12 | 8 0 50 | 1°3'24 | 8°45 | 7°17 | 17°45 | 18°54 | 7°17 | 26°15 | 25°16 | 4°17 | 13°59 | 18°13 | 19°40 | 26°41 | 22°59 | M 12 |
| T 13 | 8 4 47 | 2°4'23 | 20°48 | 7°50 | 18°41 | 18°52 | 7°31 | 26°22 | 25°15 | 4°19 | 14°1 | 18°6 | 19°37 | 26°48 | 23°3 | T 13 |
| W 14 | 8 8 43 | 3°5'21 | 2°35 | 8°29 | 19°36 | 18°50 | 7°46 | 26°29 | 25°15 | 4°21 | 14°2 | 17°57 | 19°34 | 26°54 | 23°7 | W 14 |
| T 15 | 8 12 40 | 4°6'18 | 14°37 | 9°13 | 20°31 | 18°47 | 8°0 | 26°36 | 25°14 | 4°23 | 14°4 | 17°48 | 19°30 | 27°1 | 23°11 | T 15 |
| F 16 | 8 16 36 | 5°7'15 | 26°28 | 10°0 | 21°25 | 18°43 | 8°14 | 26°43 | 25°14 | 4°25 | 14°6 | 17°39 | 19°27 | 27°8 | 23°15 | F 16 |
| S 17 | 8 20 33 | 6°8'10 | 8°18 | 10°52 | 22°18 | 18°39 | 8°29 | 26°50 | 25°13 | 4°27 | 14°8 | 17°32 | 19°24 | 27°14 | 23°19 | S 17 |
| S 18 | 8 24 29 | 7°9'04 | 20°10 | 11°47 | 23°11 | 18°33 | 8°43 | 26°57 | 25°13 | 4°29 | 14°10 | 17°26 | 19°21 | 27°21 | 23°24 | S 18 |
| M 19 | 8 28 26 | 8°9'56 | 2°4 | 12°44 | 24°2 | 18°27 | 8°57 | 27°4 | 25°13 | 4°31 | 14°12 | 17°23 | 19°18 | 27°28 | 23°28 | M 19 |
| T 20 | 8 32 23 | 9°10'48 | 14°4 | 13°45 | 24°53 | 18°20 | 9°12 | 27°11 | 25°12 | 4°33 | 14°14 | 17°D22 | 19°14 | 27°35 | 23°32 | T 20 |
| W 21 | 8 36 19 | 10°11'38 | 26°12 | 14°48 | 25°44 | 18°13 | 9°26 | 27°18 | 25°12 | 4°36 | 14°16 | 17°22 | 19°11 | 27°41 | 23°36 | W 21 |
| T 22 | 8 40 16 | 11°12'26 | 8°31 | 15°54 | 26°33 | 18°4 | 9°40 | 27°25 | 25°12 | 4°38 | 14°18 | 17°23 | 19°8 | 27°48 | 23°40 | T 22 |
| F 23 | 8 44 12 | 12°13'14 | 21°4 | 17°2 | 27°21 | 17°55 | 9°55 | 27°32 | 25°12 | 4°40 | 14°20 | 17°25 | 19°5 | 27°55 | 23°44 | F 23 |
| S 24 | 8 48 9 | 13°13'59 | 3°57 | 18°12 | 28°9 | 17°45 | 10°9 | 27°39 | 25°D12 | 4°42 | 14°21 | 17°26 | 19°2 | 28°1 | 23°48 | S 24 |
| S 25 | 8 52 5 | 14°14'43 | 17°11 | 19°24 | 28°56 | 17°34 | 10°23 | 27°46 | 25°12 | 4°44 | 14°23 | 17°R27 | 18°59 | 28°8 | 23°53 | S 25 |
| M 26 | 8 56 2 | 15°15'25 | 0°11 | 20°37 | 29°41 | 17°22 | 10°38 | 27°53 | 25°12 | 4°46 | 14°25 | 17°26 | 18°55 | 28°15 | 23°57 | M 26 |
| T 27 | 8 59 58 | 16°16'06 | 14°57 | 21°53 | 0°Y26 | 17°10 | 10°52 | 28°1 | 25°12 | 4°48 | 14°27 | 17°23 | 18°52 | 28°21 | 24°1 | T 27 |
| W 28 | 9 3 55 | 17°16'45 | 29°29 | 23°9 | 1°10 | 16°56 | 11°6 | 28°8 | 25°13 | 4°51 | 14°29 | 17°20 | 18°49 | 28°28 | 24°5 | W 28 |
| T 29 | 9 7 52 | 18°17'22 | 14°22 | 24°28 | 1°52 | 16°43 | 11°21 | 28°15 | 25°13 | 4°53 | 14°30 | 17°15 | 18°46 | 28°35 | 24°9 | T 29 |
| F 30 | 9 11 48 | 19°17'58 | 29°29 | 25°47 | 2°34 | 16°28 | 11°35 | 28°22 | 25°13 | 4°55 | 14°32 | 17°11 | 18°43 | 28°42 | 24°14 | F 30 |
| S 31 | 9 15 45 | 20°18'32 | 14°42 | 27°38 | 3°Y14 | 16°13 | 11°49 | 28°30 | 25°R14 | 4°57 | 14°34 | 17°R8 | 18°R40 | 28°48 | 24°18 | S 31 |

Delta T = 240.36 sec

Julian Calendar 1 Jan. 1523 == Greg. Calendar 11 Jan. 1523

FEBRUARY 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|--------|--------|-------|-------|--------|------|-------|--------|--------|-------|-------|------|
| S 1 | 9 19 41 | 21°19'04 | 29°45 | 28°30 | 3°Y53 | 15°R57 | 12°3 | 28°37 | 25°R14 | 4°59 | 14°36 | 17°R6 | 18°R36 | 28°55 | 24°22 | S 1 |
| M 2 | 9 23 38 | 22°19'35 | 14°43 | 29°54 | 4°31 | 15°40 | 12°18 | 28°44 | 25°14 | 5°2 | 14°37 | 17°D5 | 18°33 | 29°2 | 24°26 | M 2 |
| T 3 | 9 27 34 | 23°20'04 | 29°15 | 1°18 | 5°7 | 15°23 | 12°32 | 28°51 | 25°15 | 5°4 | 14°39 | 17°R5 | 18°30 | 29°8 | 24°30 | T 3 |
| W 4 | 9 31 31 | 24°20'32 | 13°20 | 2°44 | 5°42 | 15°5 | 12°46 | 28°59 | 25°15 | 5°6 | 14°41 | 17°6 | 18°27 | 29°15 | 24°35 | W 4 |
| T 5 | 9 35 27 | 25°20'58 | 26°59 | 4°11 | 6°16 | 14°46 | 13°0 | 29°6 | 25°16 | 5°8 | 14°42 | 17°8 | 18°24 | 29°22 | 24°39 | T 5 |
| F 6 | 9 39 24 | 26°21'23 | 10°10 | 5°39 | 6°48 | 14°27 | 13°15 | 29°13 | 25°17 | 5°11 | 14°44 | 17°9 | 18°20 | 29°28 | 24°43 | F 6 |
| S 7 | 9 43 21 | 27°21'47 | 22°58 | 7°8 | 7°18 | 14°7 | 13°29 | 29°20 | 25°17 | 5°13 | 14°46 | 17°R10 | 18°17 | 29°35 | 24°47 | S 7 |
| S 8 | 9 47 17 | 28°22'10 | 5°25 | 8°39 | 7°47 | 13°47 | 13°43 | 29°28 | 25°18 | 5°15 | 14°47 | 17°10 | 18°14 | 29°42 | 24°52 | S 8 |
| M 9 | 9 51 14 | 29°22'31 | 17°37 | 10°10 | 8°14 | 13°26 | 13°57 | 29°35 | 25°19 | 5°17 | 14°49 | 17°9 | 18°11 | 29°48 | 24°56 | M 9 |
| T 10 | 9 55 10 | 0°22'50 | 29°37 | 11°42 | 8°40 | 13°5 | 14°11 | 29°42 | 25°20 | 5°20 | 14°50 | 17°7 | 18°8 | 29°55 | 25°0 | T 10 |
| W 11 | 9 59 7 | 1°23'08 | 11°31 | 13°15 | 9°4 | 12°43 | 14°25 | 29°50 | 25°21 | 5°22 | 14°52 | 17°5 | 18°5 | 0°2 | 25°4 | W 11 |
| T 12 | 10 3 3 | 2°23'24 | 23°20 | 14°50 | 9°26 | 12°21 | 14°39 | 29°57 | 25°22 | 5°24 | 14°53 | 17°2 | 18°1 | 0°8 | 25°8 | T 12 |
| F 13 | 10 7 0 | 3°23'39 | 5°10 | 16°25 | 9°46 | 11°58 | 14°53 | 0°4 | 25°23 | 5°27 | 14°55 | 17°0 | 17°58 | 0°15 | 25°13 | F 13 |
| S 14 | 10 10 56 | 4°23'52 | 17°2 | 18°2 | 10°4 | 11°35 | 15°7 | 0°12 | 25°24 | 5°29 | 14°56 | 16°58 | 17°55 | 0°22 | 25°17 | S 14 |
| S 15 | 10 14 53 | 5°24'03 | 28°58 | 19°39 | 10°20 | 11°12 | 15°21 | 0°19 | 25°25 | 5°31 | 14°58 | 16°57 | 17°52 | 0°29 | 25°21 | S 15 |
| M 16 | 10 18 50 | 6°24'12 | 11°2 | 21°18 | 10°34 | 10°49 | 15°35 | 0°26 | 25°26 | 5°33 | 14°59 | 16°D56 | 17°49 | 0°35 | 25°25 | M 16 |
| T 17 | 10 22 46 | 7°24'20 | 23°13 | 22°57 | 10°46 | 10°26 | 15°49 | 0°33 | 25°28 | 5°36 | 15°0 | 16°56 | 17°46 | 0°42 | 25°29 | T 17 |
| W 18 | 10 26 43 | 8°24'25 | 5°Y35 | 24°38 | 10°56 | 10°2 | 16°3 | 0°41 | 25°29 | 5°38 | 15°2 | 16°57 | 17°42 | 0°49 | 25°33 | W 18 |
| T 19 | 10 30 39 | 9°24'29 | 18°8 | 26°20 | 11°3 | 9°38 | 16°16 | 0°48 | 25°30 | 5°40 | 15°3 | 16°57 | 17°39 | 0°55 | 25°38 | T 19 |
| F 20 | 10 34 36 | 10°24'30 | 0°55 | 28°2 | 11°8 | 9°15 | 16°30 | 0°55 | 25°32 | 5°43 | 15°5 | 16°58 | 17°36 | 1°2 | 25°42 | F 20 |
| S 21 | 10 38 32 | 11°24'29 | 13°57 | 29°46 | 11°11 | 8°51 | 16°44 | 1°2 | 25°33 | 5°45 | 15°6 | 16°59 | 17°33 | 1°9 | 25°46 | S 21 |
| S 22 | 10 42 29 | 12°24'26 | 27°16 | 1°31 | 11°R11 | 8°27 | 16°57 | 1°10 | 25°34 | 5°47 | 15°7 | 16°59 | 17°30 | 1°15 | 25°50 | S 22 |
| M 23 | 10 46 25 | 13°24'21 | 10°11 | 3°18 | 11°9 | 8°4 | 17°11 | 1°17 | 25°36 | 5°49 | 15°8 | 16°R59 | 17°26 | 1°22 | 25°54 | M 23 |
| T 24 | 10 50 22 | 14°24'14 | 24°49 | 5°5 | 11°4 | 7°40 | 17°25 | 1°24 | 25°38 | 5°52 | 15°10 | 16°59 | 17°23 | 1°29 | 25°58 | T 24 |
| W 25 | 10 54 18 | 15°24'04 | 9°24 | 6°54 | 10°57 | 7°17 | 17°38 | 1°31 | 25°39 | 5°54 | 15°11 | 16°59 | 17°20 | 1°35 | 26°2 | W 25 |
| T 26 | 10 58 15 | 16°23'53 | 23°35 | 8°43 | 10°47 | 6°54 | 17°52 | 1°38 | 25°41 | 5°56 | 15°12 | 16°59 | 17°17 | 1°42 | 26°6 | T 26 |
| F 27 | 11 2 12 | 17°23'38 | 8°18 | 10°34 | 10°35 | 6°31 | 18°5 | 1°45 | 25°43 | 5°58 | 15°13 | 16°D59 | 17°14 | 1°49 | 26°10 | F 27 |
| S 28 | 11 6 8 | 18°23'22 | 23°48 | 12°26 | 10°Y20 | 6°19 | 18°19 | 1°52 | 25°44 | 6°1 | 15°14 | 16°R59 | 17°11 | 1°55 | 26°14 | S 28 |

Delta T = 240.16 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1523

geocentric

MARCH 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|--------|-------|--------|--------|-------|-------|--------|-------|--------|--------|--------|-------|-------|------|
| S 1 | 11 10 5 | 19°23'03 | 7°57 | 14°20 | 10°R 3 | 5°R47 | 18°32 | 2°H 0 | 25°B46 | 6°H 3 | 15°B15 | 16°H59 | 17°H 7 | 2°22 | 26°18 | S 1 |
| M 2 | 11 14 1 | 20°22'42 | 22°38 | 16°14 | 9°Y43 | 5°M25 | 18°45 | 2° 7 | 25°48 | 6° 5 | 15°16 | 16°R59 | 17° 4 | 2° 9 | 26°22 | M 2 |
| T 3 | 11 17 58 | 21°22'19 | 7°5 | 18° 9 | 9°21 | 5° 4 | 18°58 | 2°14 | 25°50 | 6° 7 | 15°18 | 16°59 | 17° 1 | 2°16 | 26°26 | T 3 |
| W 4 | 11 21 54 | 22°21'55 | 21°11 | 20° 6 | 8°57 | 4°43 | 19°12 | 2°21 | 25°52 | 6° 9 | 15°19 | 16°59 | 16°58 | 2°22 | 26°30 | W 4 |
| T 5 | 11 25 51 | 23°21'28 | 4°M54 | 22° 4 | 8°31 | 4°23 | 19°25 | 2°28 | 25°54 | 6°12 | 15°20 | 16°58 | 16°55 | 2°29 | 26°34 | T 5 |
| F 6 | 11 29 47 | 24°21'00 | 18°12 | 24° 3 | 8° 2 | 4° 3 | 19°38 | 2°35 | 25°56 | 6°14 | 15°21 | 16°57 | 16°52 | 2°36 | 26°37 | F 6 |
| S 7 | 11 33 44 | 25°20'29 | 1°A 6 | 26° 2 | 7°32 | 3°44 | 19°51 | 2°42 | 25°58 | 6°16 | 15°21 | 16°56 | 16°48 | 2°42 | 26°41 | S 7 |
| S 8 | 11 37 41 | 26°19'57 | 13°39 | 28° 3 | 7° 0 | 3°25 | 20° 4 | 2°49 | 26° 0 | 6°18 | 15°22 | 16°56 | 16°45 | 2°49 | 26°45 | S 8 |
| M 9 | 11 41 37 | 27°19'24 | 25°55 | 0°Y 4 | 6°27 | 3° 7 | 20°17 | 2°55 | 26° 2 | 6°20 | 15°23 | 16°D55 | 16°42 | 2°56 | 26°49 | M 9 |
| T 10 | 11 45 34 | 28°18'48 | 7°B57 | 2° 6 | 5°52 | 2°50 | 20°29 | 3° 2 | 26° 4 | 6°23 | 15°24 | 16°55 | 16°39 | 3° 2 | 26°53 | T 10 |
| W11 | 11 49 30 | 29°18'11 | 19°50 | 4° 8 | 5°16 | 2°33 | 20°42 | 3° 9 | 26° 7 | 6°25 | 15°25 | 16°56 | 16°36 | 3° 9 | 26°56 | W11 |
| T 12 | 11 53 27 | 0°Y17'31 | 1°A40 | 6°10 | 4°39 | 2°17 | 20°55 | 3°16 | 26° 9 | 6°27 | 15°26 | 16°57 | 16°32 | 3°16 | 27° 0 | T 12 |
| F 13 | 11 57 23 | 1°16'50 | 13°30 | 8°13 | 4° 2 | 2° 1 | 21° 8 | 3°23 | 26°11 | 6°29 | 15°27 | 16°59 | 16°29 | 3°22 | 27° 4 | F 13 |
| S 14 | 12 1 20 | 2°16'07 | 25°25 | 10°15 | 3°24 | 1°47 | 21°20 | 3°29 | 26°14 | 6°31 | 15°27 | 17° 0 | 16°26 | 3°29 | 27° 7 | S 14 |
| S 15 | 12 5 16 | 3°15'22 | 7°H27 | 12°16 | 2°46 | 1°33 | 21°33 | 3°36 | 26°16 | 6°33 | 15°28 | 17° 1 | 16°23 | 3°36 | 27°11 | S 15 |
| M16 | 12 9 13 | 4°14'35 | 19°41 | 14°17 | 2° 9 | 1°20 | 21°45 | 3°43 | 26°18 | 6°35 | 15°29 | 17°R 1 | 16°20 | 3°42 | 27°14 | M16 |
| T 17 | 12 13 10 | 5°13'46 | 2°Y 7 | 16°16 | 1°31 | 1° 7 | 21°57 | 3°49 | 26°21 | 6°37 | 15°29 | 17° 0 | 16°17 | 3°49 | 27°18 | T 17 |
| W18 | 12 17 6 | 6°12'55 | 14°47 | 18°14 | 0°55 | 0°55 | 22°10 | 3°56 | 26°23 | 6°39 | 15°30 | 16°59 | 16°13 | 3°56 | 27°22 | W18 |
| T 19 | 12 21 3 | 7°12'02 | 27°41 | 20° 9 | 0°19 | 0°44 | 22°22 | 4° 2 | 26°26 | 6°41 | 15°31 | 16°56 | 16°10 | 4° 2 | 27°25 | T 19 |
| F 20 | 12 24 59 | 8°11'07 | 10°B50 | 22° 2 | 29°H44 | 0°34 | 22°34 | 4° 9 | 26°28 | 6°43 | 15°31 | 16°53 | 16° 7 | 4° 9 | 27°28 | F 20 |
| S 21 | 12 28 56 | 9°10'10 | 24°12 | 23°53 | 29°11 | 0°25 | 22°46 | 4°15 | 26°31 | 6°45 | 15°32 | 16°50 | 16° 4 | 4°16 | 27°32 | S 21 |
| S 22 | 12 32 52 | 10° 9'10 | 7°H47 | 25°40 | 28°38 | 0°16 | 22°58 | 4°22 | 26°34 | 6°47 | 15°32 | 16°47 | 16° 1 | 4°22 | 27°35 | S 22 |
| M23 | 12 36 49 | 11° 8'08 | 21°34 | 27°24 | 28° 8 | 0° 9 | 23°10 | 4°28 | 26°36 | 6°49 | 15°33 | 16°45 | 15°57 | 4°29 | 27°39 | M23 |
| T 24 | 12 40 45 | 12° 7'04 | 5°B32 | 29° 4 | 27°40 | 0° 2 | 23°22 | 4°34 | 26°39 | 6°51 | 15°33 | 16°44 | 15°54 | 4°36 | 27°42 | T 24 |
| W25 | 12 44 42 | 13° 5'57 | 19°38 | 0°B40 | 27°13 | 29°B56 | 23°33 | 4°41 | 26°42 | 6°53 | 15°34 | 16°D43 | 15°51 | 4°42 | 27°45 | W25 |
| T 26 | 12 48 39 | 14° 4'49 | 3°B53 | 2°12 | 26°48 | 29°50 | 23°45 | 4°47 | 26°45 | 6°55 | 15°34 | 16°44 | 15°48 | 4°49 | 27°48 | T 26 |
| F 27 | 12 52 35 | 15° 3'37 | 18°13 | 3°39 | 26°26 | 29°46 | 23°56 | 4°53 | 26°47 | 6°57 | 15°34 | 16°46 | 15°45 | 4°56 | 27°51 | F 27 |
| S 28 | 12 56 32 | 16° 2'24 | 2°M36 | 5° 1 | 26° 6 | 29°42 | 24° 8 | 4°59 | 26°50 | 6°59 | 15°35 | 16°47 | 15°42 | 5° 3 | 27°55 | S 28 |
| S 29 | 13 0 28 | 17° 1'08 | 16°57 | 6°18 | 25°48 | 29°39 | 24°19 | 5° 5 | 26°53 | 7° 1 | 15°35 | 16°R48 | 15°38 | 5° 9 | 27°58 | S 29 |
| M30 | 13 4 25 | 17°59'50 | 1°A14 | 7°29 | 25°33 | 29°37 | 24°30 | 5°11 | 26°56 | 7° 3 | 15°35 | 16°47 | 15°35 | 5°16 | 28° 1 | M30 |
| T 31 | 13 8 21 | 18°Y58'29 | 15°A21 | 8°B35 | 25°H20 | 29°B35 | 24°44 | 5°H17 | 26°B59 | 7°H 4 | 15°B36 | 16°H45 | 15°H32 | 5°A23 | 28°4 | T 31 |

Delta T = 239.99 sec

Julian Calendar 1 March 1523 == Greg. Calendar 11 March 1523

APRIL 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|-------|-------|------|
| W 1 | 13 12 18 | 19°Y57'07 | 29°A14 | 9°B36 | 25°R10 | 29°R34 | 24°A53 | 5°H23 | 27°B 2 | 7°H 6 | 15°B36 | 16°R41 | 15°H29 | 5°A29 | 28°7 | W 1 |
| T 2 | 13 16 14 | 20°55'43 | 12°M49 | 10°31 | 25°H 2 | 29°D34 | 25° 4 | 5°29 | 27° 5 | 7° 8 | 15°36 | 16°H36 | 15°26 | 5°36 | 28°10 | T 2 |
| F 3 | 13 20 11 | 21°54'17 | 26° 4 | 11°21 | 24°56 | 29°B35 | 25°15 | 5°35 | 27° 8 | 7°10 | 15°36 | 16°30 | 15°23 | 5°43 | 28°12 | F 3 |
| S 4 | 13 24 8 | 22°52'50 | 8°A58 | 12° 4 | 24°53 | 29°37 | 25°25 | 5°41 | 27°11 | 7°11 | 15°36 | 16°24 | 15°19 | 5°49 | 28°15 | S 4 |
| S 5 | 13 28 4 | 23°51'21 | 21°33 | 12°42 | 24°D52 | 29°39 | 25°36 | 5°46 | 27°14 | 7°13 | 15°36 | 16°19 | 15°16 | 5°56 | 28°18 | S 5 |
| M 6 | 13 32 1 | 24°49'50 | 3°B50 | 13°14 | 24°54 | 29°42 | 25°47 | 5°52 | 27°17 | 7°15 | 15°36 | 16°15 | 15°13 | 6° 3 | 28°21 | M 6 |
| T 7 | 13 35 57 | 25°48'17 | 15°54 | 13°40 | 24°58 | 29°45 | 25°57 | 5°57 | 27°20 | 7°17 | 15°37 | 16°13 | 15°10 | 6° 9 | 28°24 | T 7 |
| W 8 | 13 39 54 | 26°46'43 | 27°48 | 14° 0 | 25° 5 | 29°49 | 26° 7 | 6° 3 | 27°23 | 7°18 | 15°R37 | 16°D13 | 15° 7 | 6°16 | 28°26 | W 8 |
| T 9 | 13 43 50 | 27°45'07 | 9°A38 | 14°14 | 25°13 | 29°54 | 26°18 | 6° 8 | 27°26 | 7°20 | 15°37 | 16°13 | 15° 3 | 6°23 | 28°29 | T 9 |
| F 10 | 13 47 47 | 28°43'29 | 21°29 | 14°22 | 25°24 | 0°M 0 | 26°28 | 6°14 | 27°30 | 7°21 | 15°36 | 16°15 | 15° 0 | 6°29 | 28°31 | F 10 |
| S 11 | 13 51 43 | 29°41'50 | 3°H26 | 14°R25 | 25°37 | 0° 6 | 26°38 | 6°19 | 27°33 | 7°23 | 15°36 | 16°16 | 14°57 | 6°36 | 28°34 | S 11 |
| S 12 | 13 55 40 | 0°B40'09 | 15°34 | 14°22 | 25°52 | 0°13 | 26°48 | 6°24 | 27°36 | 7°25 | 15°36 | 16°R17 | 14°54 | 6°43 | 28°36 | S 12 |
| M13 | 13 59 37 | 1°38'27 | 27°55 | 14°14 | 26° 8 | 0°21 | 26°58 | 6°30 | 27°39 | 7°26 | 15°36 | 16°16 | 14°51 | 6°49 | 28°39 | M13 |
| T 14 | 14 3 33 | 2°36'43 | 10°Y34 | 14° 1 | 26°27 | 0°29 | 27° 7 | 6°35 | 27°42 | 7°28 | 15°36 | 16°13 | 14°48 | 6°56 | 28°41 | T 14 |
| W15 | 14 7 30 | 3°34'57 | 23°32 | 13°43 | 26°48 | 0°38 | 27°17 | 6°40 | 27°46 | 7°29 | 15°36 | 16° 9 | 14°44 | 7° 3 | 28°43 | W15 |
| T 16 | 14 11 26 | 4°33'09 | 6°B48 | 13°21 | 27°10 | 0°47 | 27°26 | 6°45 | 27°49 | 7°30 | 15°36 | 16° 2 | 14°41 | 7° 9 | 28°46 | T 16 |
| F 17 | 14 15 23 | 5°31'20 | 20°22 | 12°55 | 27°34 | 0°57 | 27°36 | 6°50 | 27°52 | 7°32 | 15°35 | 15°54 | 14°38 | 7°16 | 28°48 | F 17 |
| S 18 | 14 19 19 | 6°29'29 | 4°H11 | 12°26 | 28° 0 | 1° 8 | 27°45 | 6°55 | 27°56 | 7°33 | 15°35 | 15°46 | 14°35 | 7°23 | 28°50 | S 18 |
| S 19 | 14 23 16 | 7°27'37 | 18°10 | 11°53 | 28°27 | 1°19 | 27°54 | 6°59 | 27°59 | 7°35 | 15°35 | 15°38 | 14°32 | 7°29 | 28°52 | S 19 |
| M20 | 14 27 12 | 8°25'42 | 2°B17 | 11°19 | 28°56 | 1°31 | 28° 3 | 7° 4 | 28° 2 | 7°36 | 15°34 | 15°32 | 14°29 | 7°36 | 28°54 | M20 |
| T 21 | 14 31 9 | 9°23'46 | 16°28 | 10°43 | 29°27 | 1°43 | 28°12 | 7° 9 | 28° 6 | 7°37 | 15°34 | 15°27 | 14°25 | 7°43 | 28°56 | T 21 |
| W22 | 14 35 6 | 10°21'47 | 0°B39 | 10° 7 | 29°58 | 1°56 | 28°20 | 7°13 | 28° 9 | 7°39 | 15°34 | 15°25 | 14°22 | 7°49 | 28°58 | W22 |
| T 23 | 14 39 2 | 11°19'47 | 14°49 | 9°30 | 0°Y32 | 2° 9 | 28°29 | 7°18 | 28°12 | 7°40 | 15°33 | 15°D25 | 14°19 | 7°56 | 29° 0 | T 23 |
| F 24 | 14 42 59 | 12°17'44 | 28°55 | 8°53 | 1° 6 | 2°23 | 28°38 | 7°22 | 28°16 | 7°41 | 15°33 | 15°25 | 14°16 | 8° 3 | 29° 2 | F 24 |
| S 25 | 14 46 55 | 13°15'40 | 12°M58 | 8°17 | 1°42 | 2°38 | 28°46 | 7°27 | 28°19 | 7°42 | 15°32 | 15°R26 | 14°13 | 8° 9 | 29° 4 | S 25 |
| S 26 | 14 50 52 | 14°13'34 | 26°55 | 7°43 | 2°19 | 2°53 | 28°54 | 7°31 | 28°23 | 7°43 | 15°32 | 15°25 | 14° 9 | 8°16 | 29° 5 | S 26 |
| M27 | 14 54 48 | 15°11'26 | 10°A45 | 7°11 | 2°57 | 3° 8 | 29° 2 | 7°35 | 28°26 | 7°45 | 15°31 | 15°23 | 14° 6 | 8°23 | 29° 7 | M27 |
| T 28 | 14 58 45 | 16° 9'16 | 24°26 | 6°42 | 3°36 | 3°24 | 29°10 | 7°39 | 28°30 | 7°46 | 15°31 | 15°18 | 14° 3 | 8°29 | 29° 9 | T 28 |
| W29 | 15 2 41 | 17° 7'05 | 7°M57 | 6°16 | 4°16 | 3°40 | 29°18 | 7°43 | 28°33 | 7°47 | 15°30 | 15°10 | 14° 0 | 8°36 | 29°10 | W29 |
| T 30 | 15 6 38 | 18°B45'52 | 21°M14 | 5°B54 | 4°Y58 | 3°M57 | 29°A25 | 7°H47 | 28°B37 | 7°H48 | 15°B30 | 15°H 1 | 13°H57 | 8°A43 | 29°12 | T 30 |

Delta T = 239.80 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1523

geocentric

MAY 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|--------------|-----------|---------|---------|---------|---------|--------|---------|--------|---------|---------|---------|---------|---------|------|
| F 1 | 15 10 35 | 19° 2'38" | 4° 16' | 5° R35 | 5° Y40 | 4° M14 | 29° 33' | 7° 51' | 28° 40' | 7° 49' | 15° R29 | 14° R50 | 13° 54' | 8° 49' | 29° 13' | F 1 |
| S 2 | 15 14 31 | 20° 0'22" | 17° 1' | 5° 21' | 6° 23' | 4° 32' | 29° 40' | 7° 55' | 28° 43' | 7° 50' | 15° 28' | 14° 39' | 13° 50' | 8° 56' | 29° 15' | S 2 |
| S 3 | 15 18 28 | 20° 58'06" | 29° 31' | 5° 10' | 7° 8' | 4° 50' | 29° 47' | 7° 59' | 28° 47' | 7° 51' | 15° 28' | 14° 29' | 13° 47' | 9° 3' | 29° 16' | S 3 |
| M 4 | 15 22 24 | 21° 55'48" | 11° 34'5" | 5° 4' | 7° 53' | 5° 9' | 29° 54' | 8° 2' | 28° 50' | 7° 52' | 15° 27' | 14° 20' | 13° 44' | 9° 9' | 29° 17' | M 4 |
| T 5 | 15 26 21 | 22° 53'29" | 23° 48' | 5° D 3 | 8° 39' | 5° 28' | 0° 1' | 8° 6' | 28° 54' | 7° 53' | 15° 26' | 14° 14' | 13° 41' | 9° 16' | 29° 18' | T 5 |
| W 6 | 15 30 17 | 23° 51'09" | 5° 42' | 5° 6' | 9° 26' | 5° 47' | 0° 8' | 8° 9' | 28° 57' | 7° 54' | 15° 25' | 14° 10' | 13° 38' | 9° 23' | 29° 20' | W 6 |
| T 7 | 15 34 14 | 24° 48'47" | 17° 31' | 5° 14' | 10° 13' | 6° 7' | 0° 15' | 8° 12' | 29° 1' | 7° 54' | 15° 25' | 14° 9' | 13° 35' | 9° 29' | 29° 21' | T 7 |
| F 8 | 15 38 10 | 25° 46'25" | 29° 22' | 5° 26' | 11° 2' | 6° 27' | 0° 21' | 8° 16' | 29° 4' | 7° 55' | 15° 24' | 14° D 9 | 13° 31' | 9° 36' | 29° 22' | F 8 |
| S 9 | 15 42 7 | 26° 44'02" | 11° 19' | 5° 43' | 11° 51' | 6° 48' | 0° 27' | 8° 19' | 29° 8' | 7° 56' | 15° 23' | 14° R 9 | 13° 28' | 9° 43' | 29° 23' | S 9 |
| S 10 | 15 46 4 | 27° 41'37" | 23° 28' | 6° 4' | 12° 41' | 7° 9' | 0° 33' | 8° 22' | 29° 12' | 7° 57' | 15° 22' | 14° 8' | 13° 25' | 9° 49' | 29° 24' | S 10 |
| M 11 | 15 50 0 | 28° 39'12" | 5° 53' | 6° 29' | 13° 31' | 7° 30' | 0° 39' | 8° 25' | 29° 15' | 7° 57' | 15° 21' | 14° 7' | 13° 22' | 9° 56' | 29° 25' | M 11 |
| T 12 | 15 53 57 | 29° 36'46" | 18° 39' | 6° 59' | 14° 23' | 7° 51' | 0° 45' | 8° 28' | 29° 19' | 7° 58' | 15° 20' | 14° 3' | 13° 19' | 10° 3' | 29° 25' | T 12 |
| W 13 | 15 57 53 | 0° 11'34'19" | 1° 49' | 7° 32' | 15° 14' | 8° 13' | 0° 51' | 8° 31' | 29° 22' | 7° 59' | 15° 19' | 13° 56' | 13° 15' | 10° 10' | 29° 26' | W 13 |
| T 14 | 16 1 50 | 1° 31'51" | 15° 22' | 8° 10' | 16° 7' | 8° 36' | 0° 56' | 8° 34' | 29° 26' | 7° 59' | 15° 19' | 13° 47' | 13° 12' | 10° 16' | 29° 27' | T 14 |
| F 15 | 16 5 46 | 2° 29'22" | 29° 18' | 8° 52' | 17° 0' | 8° 59' | 1° 2' | 8° 36' | 29° 29' | 8° 0' | 15° 18' | 13° 36' | 13° 9' | 10° 23' | 29° 27' | F 15 |
| S 16 | 16 9 43 | 3° 26'52" | 13° 31' | 9° 37' | 17° 53' | 9° 22' | 1° 7' | 8° 39' | 29° 33' | 8° 1' | 15° 17' | 13° 24' | 13° 6' | 10° 30' | 29° 28' | S 16 |
| S 17 | 16 13 39 | 4° 24'21" | 27° 58' | 10° 27' | 18° 47' | 9° 45' | 1° 12' | 8° 41' | 29° 36' | 8° 1' | 15° 16' | 13° 14' | 13° 3' | 10° 36' | 29° 28' | S 17 |
| M 18 | 16 17 36 | 5° 21'49" | 12° 30' | 11° 19' | 19° 42' | 10° 9' | 1° 16' | 8° 44' | 29° 40' | 8° 2' | 15° 15' | 13° 4' | 13° 0' | 10° 43' | 29° 29' | M 18 |
| T 19 | 16 21 33 | 6° 19'15" | 27° 2' | 12° 16' | 20° 37' | 10° 33' | 1° 21' | 8° 46' | 29° 43' | 8° 2' | 15° 14' | 12° 58' | 12° 56' | 10° 50' | 29° 29' | T 19 |
| W 20 | 16 25 29 | 7° 16'41" | 11° 28' | 13° 15' | 21° 33' | 10° 57' | 1° 26' | 8° 48' | 29° 47' | 8° 2' | 15° 12' | 12° 54' | 12° 53' | 10° 56' | 29° 30' | W 20 |
| T 21 | 16 29 26 | 8° 14'05" | 25° 45' | 14° 18' | 22° 29' | 11° 22' | 1° 30' | 8° 50' | 29° 50' | 8° 3' | 15° 11' | 12° 52' | 12° 50' | 11° 3' | 29° 30' | T 21 |
| F 22 | 16 33 22 | 9° 11'28" | 9° 50' | 15° 25' | 23° 25' | 11° 47' | 1° 34' | 8° 52' | 29° 54' | 8° 3' | 15° 10' | 12° 52' | 12° 47' | 11° 10' | 29° 30' | F 22 |
| S 23 | 16 37 19 | 10° 8'50" | 23° 43' | 16° 34' | 24° 22' | 12° 12' | 1° 38' | 8° 54' | 29° 57' | 8° 4' | 15° 9' | 12° 52' | 12° 44' | 11° 16' | 29° 30' | S 23 |
| S 24 | 16 41 15 | 11° 6'10" | 7° 24' | 17° 47' | 25° 19' | 12° 37' | 1° 42' | 8° 56' | 0° 11' | 8° 4' | 15° 8' | 12° 51' | 12° 41' | 11° 23' | 29° 30' | S 24 |
| M 25 | 16 45 12 | 12° 3'30" | 20° 54' | 19° 3' | 26° 17' | 13° 3' | 1° 45' | 8° 58' | 0° 4' | 8° 4' | 15° 7' | 12° 47' | 12° 37' | 11° 30' | 29° 30' | M 25 |
| T 26 | 16 49 8 | 13° 0'48" | 4° 13' | 20° 22' | 27° 15' | 13° 29' | 1° 49' | 8° 59' | 0° 8' | 8° 4' | 15° 6' | 12° 41' | 12° 34' | 11° 36' | 29° 30' | T 26 |
| W 27 | 16 53 5 | 13° 58'06" | 17° 20' | 21° 44' | 28° 14' | 13° 55' | 1° 52' | 9° 1' | 0° 11' | 8° 5' | 15° 4' | 12° 32' | 12° 31' | 11° 43' | 29° 30' | W 27 |
| T 28 | 16 57 2 | 14° 55'23" | 0° 16' | 23° 9' | 29° 13' | 14° 22' | 1° 55' | 9° 2' | 0° 14' | 8° 5' | 15° 3' | 12° 21' | 12° 28' | 11° 50' | 29° 30' | T 28 |
| F 29 | 17 0 58 | 15° 52'40" | 13° 0' | 24° 37' | 0° 12' | 14° 49' | 1° 58' | 9° 4' | 0° 18' | 8° 5' | 15° 2' | 12° 8' | 12° 25' | 11° 56' | 29° 30' | F 29 |
| S 30 | 17 4 55 | 16° 49'55" | 25° 32' | 26° 8' | 1° 11' | 15° 16' | 2° 0' | 9° 5' | 0° 21' | 8° 5' | 15° 1' | 11° 55' | 12° 21' | 12° 3' | 29° 30' | S 30 |
| S 31 | 17 8 51 | 17° 47'10" | 7° 51' | 27° 42' | 2° 11' | 15° 43' | 2° 3' | 9° 6' | 0° 25' | 8° 5' | 15° 0' | 11° 43' | 12° 18' | 12° 10' | 29° 29' | S 31 |

Delta T = 239.61 sec

Julian Calendar 1 May 1523 == Greg. Calendar 11 May 1523

JUNE 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|------------|-----------|-----------|-----------|---------|--------|--------|-----------|--------|---------|---------|---------|---------|---------|------|
| M 1 | 17 12 48 | 18° 44'25" | 19° 58' | 29° 8'19" | 3° 12' | 16° 11' | 2° 5' | 9° 8' | 0° 11'28" | 8° 5' | 14° R58 | 11° R32 | 12° 15' | 12° 16' | 29° R29 | M 1 |
| T 2 | 17 16 44 | 19° 41'39" | 1° 56' | 0° 11'58" | 4° 12' | 16° 39' | 2° 7' | 9° 8' | 0° 31' | 8° R 5 | 14° 57' | 11° 24' | 12° 12' | 12° 23' | 29° 28' | T 2 |
| W 3 | 17 20 41 | 20° 38'53" | 13° 47' | 2° 41' | 5° 13' | 17° 7' | 2° 9' | 9° 9' | 0° 35' | 8° 5' | 14° 56' | 11° 19' | 12° 9' | 12° 30' | 29° 28' | W 3 |
| T 4 | 17 24 37 | 21° 36'06" | 25° 35' | 4° 26' | 6° 14' | 17° 35' | 2° 11' | 9° 10' | 0° 38' | 8° 5' | 14° 54' | 11° 17' | 12° 6' | 12° 36' | 29° 27' | T 4 |
| F 5 | 17 28 34 | 22° 33'20" | 7° 25' | 6° 14' | 7° 16' | 18° 4' | 2° 12' | 9° 10' | 0° 41' | 8° 5' | 14° 53' | 11° D16 | 12° 2' | 12° 43' | 29° 27' | F 5 |
| S 6 | 17 32 31 | 23° 30'33" | 19° 21' | 8° 5' | 8° 18' | 18° 32' | 2° 14' | 9° 11' | 0° 45' | 8° 5' | 14° 52' | 11° R16 | 11° 59' | 12° 50' | 29° 26' | S 6 |
| S 7 | 17 36 27 | 24° 27'46" | 1° 29' | 9° 59' | 9° 20' | 19° 1' | 2° 15' | 9° 11' | 0° 48' | 8° 5' | 14° 50' | 11° 16' | 11° 56' | 12° 56' | 29° 25' | S 7 |
| M 8 | 17 40 24 | 25° 24'59" | 13° 55' | 11° 55' | 10° 22' | 19° 31' | 2° 16' | 9° 12' | 0° 51' | 8° 4' | 14° 49' | 11° 14' | 11° 53' | 13° 3' | 29° 24' | M 8 |
| T 9 | 17 44 20 | 26° 22'11" | 26° 42' | 13° 53' | 11° 24' | 20° 0' | 2° 16' | 9° 12' | 0° 55' | 8° 4' | 14° 48' | 11° 11' | 11° 50' | 13° 9' | 29° 24' | T 9 |
| W 10 | 17 48 17 | 27° 19'24" | 9° 55' | 15° 54' | 12° 27' | 20° 30' | 2° 17' | 9° 12' | 0° 58' | 8° 4' | 14° 46' | 11° 5' | 11° 47' | 13° 16' | 29° 23' | W 10 |
| T 11 | 17 52 13 | 28° 16'37" | 23° 36' | 17° 57' | 13° 30' | 20° 59' | 2° 17' | 9° R12 | 1° 1' | 8° 4' | 14° 45' | 10° 57' | 11° 43' | 13° 23' | 29° 22' | T 11 |
| F 12 | 17 56 10 | 29° 13'50" | 7° 11'43" | 20° 1' | 14° 34' | 21° 29' | 2° R18 | 9° 12' | 1° 4' | 8° 3' | 14° 44' | 10° 48' | 11° 40' | 13° 29' | 29° 21' | F 12 |
| S 13 | 18 0 7 | 0° 11'03" | 22° 13' | 22° 7' | 15° 37' | 22° 0' | 2° 18' | 9° 12' | 1° 8' | 8° 3' | 14° 42' | 10° 37' | 11° 37' | 13° 36' | 29° 19' | S 13 |
| S 14 | 18 4 3 | 1° 8'16" | 7° 0' | 24° 15' | 16° 41' | 22° 30' | 2° 17' | 9° 12' | 1° 11' | 8° 3' | 14° 41' | 10° 27' | 11° 34' | 13° 43' | 29° 18' | S 14 |
| M 15 | 18 8 0 | 2° 5'28" | 21° 55' | 26° 24' | 17° 45' | 23° 1' | 2° 17' | 9° 11' | 1° 14' | 8° 2' | 14° 39' | 10° 19' | 11° 31' | 13° 49' | 29° 17' | M 15 |
| T 16 | 18 11 56 | 3° 2'41" | 6° 25' | 28° 33' | 18° 49' | 23° 32' | 2° 16' | 9° 11' | 1° 17' | 8° 2' | 14° 38' | 10° 13' | 11° 27' | 13° 56' | 29° 16' | T 16 |
| W 17 | 18 15 53 | 3° 59'53" | 21° 35' | 0° 44' | 19° 53' | 24° 3' | 2° 16' | 9° 10' | 1° 20' | 8° 1' | 14° 37' | 10° 9' | 11° 24' | 14° 3' | 29° 15' | W 17 |
| T 18 | 18 19 49 | 4° 57'05" | 6° 7' | 2° 54' | 20° 58' | 24° 34' | 2° 15' | 9° 10' | 1° 23' | 8° 1' | 14° 35' | 10° D 8 | 11° 21' | 14° 9' | 29° 13' | T 18 |
| F 19 | 18 23 46 | 5° 54'16" | 20° 21' | 5° 5' | 22° 3' | 25° 5' | 2° 13' | 9° 9' | 1° 26' | 8° 0' | 14° 34' | 10° 8' | 11° 18' | 14° 16' | 29° 12' | F 19 |
| S 20 | 18 27 42 | 6° 51'27" | 4° 16' | 7° 15' | 23° 7' | 25° 37' | 2° 12' | 9° 8' | 1° 29' | 8° 0' | 14° 32' | 10° R 9 | 11° 15' | 14° 23' | 29° 10' | S 20 |
| S 21 | 18 31 39 | 7° 48'38" | 17° 53' | 9° 24' | 24° 13' | 26° 9' | 2° 10' | 9° 7' | 1° 32' | 7° 59' | 14° 31' | 10° 8' | 11° 12' | 14° 29' | 29° 9' | S 21 |
| M 22 | 18 35 36 | 8° 45'49" | 1° 11'12" | 11° 33' | 25° 18' | 26° 41' | 2° 9' | 9° 6' | 1° 35' | 7° 58' | 14° 29' | 10° 6' | 11° 8' | 14° 36' | 29° 7' | M 22 |
| T 23 | 18 39 32 | 9° 43'00" | 14° 16' | 13° 41' | 26° 23' | 27° 13' | 2° 7' | 9° 5' | 1° 38' | 7° 58' | 14° 28' | 10° 2' | 11° 5' | 14° 43' | 29° 6' | T 23 |
| W 24 | 18 43 29 | 10° 40'10" | 27° 6' | 15° 48' | 27° 29' | 27° 45' | 2° 5' | 9° 4' | 1° 41' | 7° 57' | 14° 26' | 9° 55' | 11° 2' | 14° 49' | 29° 4' | W 24 |
| T 25 | 18 47 25 | 11° 37'21" | 9° 44' | 17° 53' | 28° 35' | 28° 18' | 2° 2' | 9° 2' | 1° 44' | 7° 56' | 14° 25' | 9° 46' | 10° 59' | 14° 56' | 29° 2' | T 25 |
| F 26 | 18 51 22 | 12° 34'32" | 22° 11' | 19° 57' | 29° 41' | 28° 50' | 2° 0' | 9° 1' | 1° 47' | 7° 56' | 14° 24' | 9° 36' | 10° 56' | 15° 3' | 29° 0' | F 26 |
| S 27 | 18 55 18 | 13° 31'43" | 4° 27' | 22° 0' | 0° 11'47" | 29° 23' | 1° 57' | 8° 59' | 1° 50' | 7° 55' | 14° 22' | 9° 26' | 10° 53' | 15° 9' | 28° 59' | S 27 |
| S 28 | 18 59 15 | 14° 28'54" | 16° 34' | 24° 0' | 1° 53' | 29° 56' | 1° 54' | 8° 58' | 1° 53' | 7° 54' | 14° 21' | 9° 16' | 10° 49' | 15° 16' | 28° 57' | S 28 |
| M 29 | 19 3 11 | 15° 26'06" | 28° 33' | 26° 0' | 2° 59' | 0° 29' | 1° 51' | 8° 56' | 1° 55' | 7° 53' | 14° 19' | 9° 8' | 10° 46' | 15° 23' | 28° 55' | M 29 |
| T 30 | 19 7 8 | 16° 23'18" | 10° 26' | 27° 57' | 4° 11' | 1° 48' | 1° 48' | 8° 54' | 1° 58' | 7° 52' | 14° 18' | 9° 2' | 10° 43' | 15° 29' | 28° 53' | T 30 |

Delta T = 239.42 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1523

geocentric

JULY 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|---------|--------|--------|--------|--------|-------|-------|-------|--------|-------|--------|--------|--------|------|
| W 1 | 19 11 5 | 17°20'30 | 22°14' | 29°53' | 5°11' | 1°36' | 1°R44 | 8°R52 | 2°11' | 7°R52 | 14°R16 | 8°R58 | 10°40' | 15°36' | 28°R51 | W 1 |
| T 2 | 19 15 1 | 18°17'43 | 4°12' | 1°47' | 6°20' | 2°10' | 1°K41 | 8°K50 | 2°3' | 7°K51 | 14°K15 | 8°D57 | 10°37' | 15°43' | 28°K49 | T 2 |
| F 3 | 19 18 58 | 19°14'57 | 15°51' | 3°39' | 7°27' | 2°43' | 1°37' | 8°48' | 2°6' | 7°50' | 14°13' | 8°K57 | 10°33' | 15°49' | 28°47' | F 3 |
| S 4 | 19 22 54 | 20°12'11 | 27°47' | 5°29' | 8°34' | 3°17' | 1°33' | 8°46' | 2°9' | 7°49' | 14°12' | 8°58' | 10°30' | 15°56' | 28°44' | S 4 |
| S 5 | 19 26 51 | 21°9'26 | 9°Y55 | 7°17' | 9°41' | 3°51' | 1°29' | 8°44' | 2°11' | 7°48' | 14°10' | 8°59' | 10°27' | 16°3' | 28°42' | S 5 |
| M 6 | 19 30 47 | 22°6'42 | 22°19' | 9°4' | 10°49' | 4°25' | 1°25' | 8°42' | 2°14' | 7°47' | 14°9' | 9°R0 | 10°24' | 16°9' | 28°40' | M 6 |
| T 7 | 19 34 44 | 23°3'59 | 5°B4 | 10°49' | 11°56' | 5°0' | 1°20' | 8°39' | 2°16' | 7°46' | 14°8' | 8°59' | 10°21' | 16°16' | 28°38' | T 7 |
| W 8 | 19 38 40 | 24°1'17 | 18°15' | 12°32' | 13°4' | 5°34' | 1°15' | 8°37' | 2°19' | 7°45' | 14°6' | 8°57' | 10°18' | 16°23' | 28°35' | W 8 |
| T 9 | 19 42 37 | 24°58'36 | 1°11'53 | 14°14' | 14°12' | 6°9' | 1°11' | 8°34' | 2°21' | 7°44' | 14°5' | 8°52' | 10°14' | 16°29' | 28°33' | T 9 |
| F 10 | 19 46 34 | 25°55'55 | 16°0' | 15°53' | 15°20' | 6°44' | 1°6' | 8°31' | 2°24' | 7°43' | 14°3' | 8°47' | 10°11' | 16°36' | 28°31' | F 10 |
| S 11 | 19 50 30 | 26°53'16 | 0°E34 | 17°31' | 16°28' | 7°19' | 1°0' | 8°29' | 2°26' | 7°41' | 14°2' | 8°41' | 10°8' | 16°43' | 28°28' | S 11 |
| S 12 | 19 54 27 | 27°50'38 | 15°28' | 19°7' | 17°36' | 7°54' | 0°55' | 8°26' | 2°29' | 7°40' | 14°0' | 8°35' | 10°5' | 16°49' | 28°26' | S 12 |
| M13 | 19 58 23 | 28°48'00 | 0°L35 | 20°41' | 18°45' | 8°29' | 0°50' | 8°23' | 2°31' | 7°39' | 13°59' | 8°29' | 10°2' | 16°56' | 28°23' | M13 |
| T 14 | 20 2 20 | 29°45'23 | 15°44' | 22°14' | 19°53' | 9°4' | 0°44' | 8°20' | 2°33' | 7°38' | 13°58' | 8°26' | 9°59' | 17°3' | 28°21' | T 14 |
| W15 | 20 6 16 | 0°L42'47 | 0°M48 | 23°44' | 21°2' | 9°40' | 0°38' | 8°17' | 2°35' | 7°37' | 13°56' | 8°24' | 9°55' | 17°9' | 28°18' | W15 |
| T 16 | 20 10 13 | 1°40'12 | 15°36' | 25°13' | 22°10' | 10°15' | 0°32' | 8°14' | 2°38' | 7°35' | 13°55' | 8°D24 | 9°52' | 17°16' | 28°16' | T 16 |
| F 17 | 20 14 9 | 2°37'37 | 0°E5 | 26°40' | 23°19' | 10°51' | 0°26' | 8°11' | 2°40' | 7°34' | 13°53' | 8°25' | 9°49' | 17°23' | 28°13' | F 17 |
| S 18 | 20 18 6 | 3°35'02 | 14°10' | 28°6' | 24°28' | 11°27' | 0°20' | 8°7' | 2°42' | 7°33' | 13°52' | 8°27' | 9°46' | 17°29' | 28°10' | S 18 |
| S 19 | 20 22 3 | 4°32'29 | 27°51' | 29°29' | 25°37' | 12°3' | 0°14' | 8°4' | 2°44' | 7°32' | 13°51' | 8°28' | 9°43' | 17°36' | 28°8' | S 19 |
| M20 | 20 25 59 | 5°29'56 | 11°M10 | 0°M50 | 26°46' | 12°39' | 0°8' | 8°1' | 2°46' | 7°30' | 13°49' | 8°R28 | 9°39' | 17°43' | 28°5' | M20 |
| T 21 | 20 29 56 | 6°27'24 | 24°8' | 2°10' | 27°55' | 13°16' | 0°1' | 7°57' | 2°48' | 7°29' | 13°48' | 8°27' | 9°36' | 17°49' | 28°2' | T 21 |
| W22 | 20 33 52 | 7°24'53 | 6°M48 | 3°27' | 29°5' | 13°52' | 29°M54 | 7°54' | 2°50' | 7°28' | 13°47' | 8°24' | 9°33' | 17°56' | 28°0' | W22 |
| T 23 | 20 37 49 | 8°22'22 | 19°14' | 4°43' | 0°E14 | 14°28' | 29°48' | 7°50' | 2°52' | 7°26' | 13°45' | 8°20' | 9°30' | 18°3' | 27°57' | T 23 |
| F 24 | 20 41 45 | 9°19'53 | 1°E29 | 5°56' | 1°24' | 15°5' | 29°41' | 7°46' | 2°54' | 7°25' | 13°44' | 8°15' | 9°27' | 18°9' | 27°54' | F 24 |
| S 25 | 20 45 42 | 10°17'24 | 13°33' | 7°7' | 2°33' | 15°42' | 29°34' | 7°42' | 2°55' | 7°23' | 13°43' | 8°10' | 9°24' | 18°16' | 27°51' | S 25 |
| S 26 | 20 49 39 | 11°14'57 | 25°31' | 8°16' | 3°43' | 16°19' | 29°27' | 7°39' | 2°57' | 7°22' | 13°42' | 8°6' | 9°20' | 18°22' | 27°48' | S 26 |
| M27 | 20 53 35 | 12°12'30 | 7°M23 | 9°23' | 4°53' | 16°56' | 29°20' | 7°35' | 2°59' | 7°21' | 13°40' | 8°2' | 9°17' | 18°29' | 27°45' | M27 |
| T 28 | 20 57 32 | 13°10'05 | 19°12' | 10°27' | 6°3' | 17°33' | 29°12' | 7°31' | 3°1' | 7°19' | 13°39' | 8°0' | 9°14' | 18°36' | 27°42' | T 28 |
| W29 | 21 1 28 | 14°7'41 | 1°K0 | 11°29' | 7°13' | 18°10' | 29°5' | 7°27' | 3°2' | 7°18' | 13°38' | 7°58' | 9°11' | 18°42' | 27°40' | W29 |
| T 30 | 21 5 25 | 15°5'18 | 12°49' | 12°28' | 8°23' | 18°47' | 28°58' | 7°23' | 3°4' | 7°16' | 13°37' | 7°D58 | 9°8' | 18°49' | 27°37' | T 30 |
| F 31 | 21 9 21 | 16°L2'56 | 24°K42 | 13°M24 | 9°E33 | 19°L25 | 28°M50 | 7°K19 | 3°II5 | 7°K15 | 13°E36 | 7°K59 | 9°K5 | 18°M56 | 27°M34 | F 31 |

Delta T = 239.23 sec

Julian Calendar 1 July 1523 == Greg. Calendar 11 July 1523

AUGUST 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|---------|--------|--------|--------|--------|-------|-------|-------|--------|-------|-------|--------|--------|------|
| S 1 | 21 13 18 | 17°L0'36 | 6°Y43 | 14°M18 | 10°E44 | 20°L2 | 28°R43 | 7°R15 | 3°II7 | 7°R13 | 13°R34 | 8°K1 | 9°K1 | 19°M2 | 27°R31 | S 1 |
| S 2 | 21 17 14 | 17°58'18 | 18°54' | 15°8' | 11°54' | 20°40' | 28°M35 | 7°K11 | 3°8' | 7°K12 | 13°E33 | 8°2' | 8°58' | 19°9' | 27°M28 | S 2 |
| M 3 | 21 21 11 | 18°56'01 | 1°B19 | 15°55' | 13°5' | 21°18' | 28°27' | 7°6' | 3°10' | 7°10' | 13°32' | 8°3' | 8°55' | 19°16' | 27°25' | M 3 |
| T 4 | 21 25 7 | 19°53'46 | 14°4' | 16°39' | 14°15' | 21°56' | 28°20' | 7°2' | 3°11' | 7°8' | 13°31' | 8°R4 | 8°52' | 19°22' | 27°22' | T 4 |
| W 5 | 21 29 4 | 20°51'33 | 27°10' | 17°19' | 15°26' | 22°34' | 28°12' | 6°58' | 3°12' | 7°7' | 13°30' | 8°4' | 8°49' | 19°29' | 27°19' | W 5 |
| T 6 | 21 33 1 | 21°49'21 | 10°II42 | 17°55' | 16°37' | 23°12' | 28°4' | 6°54' | 3°14' | 7°5' | 13°29' | 8°3' | 8°45' | 19°36' | 27°16' | T 6 |
| F 7 | 21 36 57 | 22°47'12 | 24°40' | 18°27' | 17°48' | 23°50' | 27°56' | 6°49' | 3°15' | 7°4' | 13°28' | 8°2' | 8°42' | 19°42' | 27°13' | F 7 |
| S 8 | 21 40 54 | 23°45'04 | 9°E4 | 18°55' | 18°59' | 24°29' | 27°48' | 6°45' | 3°16' | 7°2' | 13°27' | 8°0' | 8°39' | 19°49' | 27°10' | S 8 |
| S 9 | 21 44 50 | 24°42'57 | 23°51' | 19°18' | 20°10' | 25°7' | 27°41' | 6°41' | 3°17' | 7°1' | 13°26' | 7°59' | 8°36' | 19°56' | 27°7' | S 9 |
| M10 | 21 48 47 | 25°40'53 | 8°L54 | 19°37' | 21°21' | 25°46' | 27°33' | 6°36' | 3°18' | 6°59' | 13°25' | 7°57' | 8°33' | 20°2' | 27°4' | M10 |
| T 11 | 21 52 43 | 26°38'50 | 24°5' | 19°50' | 22°32' | 26°24' | 27°25' | 6°32' | 3°19' | 6°57' | 13°24' | 7°57' | 8°30' | 20°9' | 27°1' | T 11 |
| W12 | 21 56 40 | 27°36'48 | 9°M15 | 19°58' | 23°43' | 27°3' | 27°17' | 6°27' | 3°20' | 6°56' | 13°23' | 7°D56 | 8°26' | 20°16' | 26°58' | W12 |
| T 13 | 22 0 37 | 28°34'48 | 24°L1 | 20°R1 | 24°55' | 27°42' | 27°9' | 6°23' | 3°21' | 6°54' | 13°22' | 7°57' | 8°23' | 20°22' | 26°52' | T 13 |
| F 14 | 22 4 33 | 29°32'49 | 8°L54 | 19°57' | 26°6' | 28°21' | 27°1' | 6°18' | 3°22' | 6°52' | 13°21' | 7°57' | 8°20' | 20°29' | 26°52' | F 14 |
| S 15 | 22 8 30 | 0°M30'52 | 23°11' | 19°48' | 27°18' | 29°0' | 26°53' | 6°14' | 3°23' | 6°51' | 13°20' | 7°58' | 8°17' | 20°36' | 26°49' | S 15 |
| S 16 | 22 12 26 | 1°28'57 | 7°M2 | 19°33' | 28°29' | 29°40' | 26°45' | 6°9' | 3°24' | 6°49' | 13°19' | 7°58' | 8°14' | 20°42' | 26°46' | S 16 |
| M17 | 22 16 23 | 2°27'02 | 20°27' | 19°11' | 29°41' | 0°M19 | 26°37' | 6°4' | 3°25' | 6°48' | 13°18' | 7°59' | 8°10' | 20°49' | 26°43' | M17 |
| T 18 | 22 20 19 | 3°25'10 | 3°M27 | 18°43' | 0°L53 | 0°58' | 26°30' | 6°0' | 3°25' | 6°46' | 13°17' | 7°R59 | 8°7' | 20°56' | 26°40' | T 18 |
| W19 | 22 24 16 | 4°23'18 | 16°5' | 18°9' | 2°5' | 1°38' | 26°22' | 5°55' | 3°26' | 6°44' | 13°17' | 7°59' | 8°4' | 21°2' | 26°37' | W19 |
| T 20 | 22 28 12 | 5°21'29 | 28°26' | 17°29' | 3°17' | 2°18' | 26°14' | 5°51' | 3°26' | 6°43' | 13°16' | 7°59' | 8°1' | 21°9' | 26°34' | T 20 |
| F 21 | 22 32 9 | 6°19'40 | 10°E34 | 16°44' | 4°29' | 2°57' | 26°6' | 5°46' | 3°27' | 6°41' | 13°15' | 7°58' | 7°58' | 21°15' | 26°31' | F 21 |
| S 22 | 22 36 6 | 7°17'53 | 22°31' | 15°53' | 5°41' | 3°37' | 25°59' | 5°42' | 3°27' | 6°39' | 13°14' | 7°58' | 7°55' | 21°22' | 26°28' | S 22 |
| S 23 | 22 40 2 | 8°16'08 | 4°M23 | 14°59' | 6°53' | 4°17' | 25°51' | 5°37' | 3°28' | 6°38' | 13°14' | 7°D58 | 7°51' | 21°29' | 26°25' | S 23 |
| M24 | 22 43 59 | 9°14'25 | 16°11' | 14°1' | 8°5' | 4°57' | 25°44' | 5°32' | 3°28' | 6°36' | 13°13' | 7°58' | 7°48' | 21°35' | 26°22' | M24 |
| T 25 | 22 47 55 | 10°12'43 | 28°0' | 13°1' | 9°18' | 5°37' | 25°36' | 5°28' | 3°29' | 6°34' | 13°12' | 7°58' | 7°45' | 21°42' | 26°19' | T 25 |
| W26 | 22 51 52 | 11°11'02 | 9°K51 | 12°1' | 10°30' | 6°18' | 25°29' | 5°23' | 3°29' | 6°33' | 13°12' | 7°R59 | 7°42' | 21°49' | 26°16' | W26 |
| T 27 | 22 55 48 | 12°9'24 | 21°46' | 11°0' | 11°42' | 6°58' | 25°22' | 5°19' | 3°29' | 6°31' | 13°11' | 7°58' | 7°39' | 21°55' | 26°13' | T 27 |
| F 28 | 22 59 45 | 13°7'48 | 3°Y48 | 10°2' | 12°55' | 7°38' | 25°14' | 5°14' | 3°29' | 6°29' | 13°11' | 7°58' | 7°36' | 22°2' | 26°10' | F 28 |
| S 29 | 23 3 41 | 14°6'13 | 15°58' | 9°6' | 14°8' | 8°19' | 25°7' | 5°10' | 3°29' | 6°28' | 13°10' | 7°57' | 7°32' | 22°9' | 26°7' | S 29 |
| S 30 | 23 7 38 | 15°4'41 | 28°19' | 8°16' | 15°20' | 8°59' | 25°0' | 5°5' | 3°29' | 6°26' | 13°10' | 7°56' | 7°29' | 22°15' | 26°5' | S 30 |
| M31 | 23 11 34 | 16°M3'10 | 10°B54 | 7°M31 | 16°L33 | 9°M40 | 24°M53 | 5°K1 | 3°R29 | 6°K25 | 13°E9 | 7°K55 | 7°K26 | 22°M22 | 26°M2 | M31 |

Delta T = 239.04 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1523

geocentric

SEPTEMBER 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|---------|---------|----------|----------|--------|-------|---------|-------|--------|-------|-------|--------|--------|------|
| T 1 | 23 15 31 | 17°14'2 | 23°43' | 6°R54 | 17°14'6 | 10°16'21 | 24°R47 | 4°R56 | 3°R29 | 6°R23 | 13°R 9 | 7°R55 | 7°R23 | 22°29' | 25°R59 | T 1 |
| W 2 | 23 19 28 | 18° 0'16 | 6°11'51 | 6°11'24 | 18°59' | 11° 2 | 24°40' | 4°H52 | 3°11'29 | 6°H21 | 13° 8 | 7°H54 | 7°20' | 22°35' | 25°56' | W 2 |
| T 3 | 23 23 24 | 18°58'53 | 20°18' | 6° 3 | 20°12' | 11°43' | 24°33' | 4°48' | 3°29' | 6°20' | 13° 8 | 7°D54 | 7°16' | 22°42' | 25°54' | T 3 |
| F 4 | 23 27 21 | 19°57'31 | 4°48' 6 | 5°52' | 21°25' | 12°24' | 24°27' | 4°43' | 3°29' | 6°18' | 13° 7 | 7°54' | 7°13' | 22°49' | 25°51' | F 4 |
| S 5 | 23 31 17 | 20°56'12 | 18°15' | 5°D50 | 22°38' | 13° 5 | 24°21' | 4°39' | 3°29' | 6°17' | 13° 7 | 7°55' | 7°10' | 22°55' | 25°48' | S 5 |
| S 6 | 23 35 14 | 21°54'56 | 2°14'5 | 5°58' | 23°51' | 13°46' | 24°15' | 4°35' | 3°28' | 6°15' | 13° 7 | 7°56' | 7° 7 | 23° 2 | 25°46' | S 6 |
| M 7 | 23 39 10 | 22°53'41 | 17°31' | 6°16' | 25° 4 | 14°28' | 24° 9 | 4°30' | 3°28' | 6°13' | 13° 6 | 7°57' | 7° 4 | 23° 9 | 25°43' | M 7 |
| T 8 | 23 43 7 | 23°52'29 | 2°11'28 | 6°43' | 26°17' | 15° 9 | 24° 3 | 4°26' | 3°28' | 6°12' | 13° 6 | 7°R57 | 7° 1 | 23°15' | 25°41' | T 8 |
| W 9 | 23 47 3 | 24°51'18 | 17°28' | 7°20' | 27°31' | 15°51' | 23°57' | 4°22' | 3°27' | 6°10' | 13° 6 | 7°57' | 6°57' | 23°22' | 25°38' | W 9 |
| T 10 | 23 51 0 | 25°50'10 | 2°12'23 | 8° 5 | 28°44' | 16°32' | 23°51' | 4°18' | 3°27' | 6° 9 | 13° 6 | 7°56' | 6°54' | 23°28' | 25°35' | T 10 |
| F 11 | 23 54 57 | 26°49'03 | 17° 6 | 8°58' | 29°58' | 17°14' | 23°46' | 4°14' | 3°26' | 6° 7 | 13° 6 | 7°54' | 6°51' | 23°35' | 25°33' | F 11 |
| S 12 | 23 58 53 | 27°47'59 | 1°16'28 | 9°59' | 1°11'11 | 17°56' | 23°40' | 4°10' | 3°26' | 6° 6 | 13° 5 | 7°52' | 6°48' | 23°42' | 25°31' | S 12 |
| S 13 | 0 2 50 | 28°46'56 | 15°26' | 11° 7 | 2°25' | 18°38' | 23°35' | 4° 6 | 3°25' | 6° 4 | 13° 5 | 7°49' | 6°45' | 23°48' | 25°28' | S 13 |
| M14 | 0 6 46 | 29°45'56 | 28°58' | 12°22' | 3°38' | 19°20' | 23°30' | 4° 2 | 3°24' | 6° 3 | 13° 5 | 7°46' | 6°42' | 23°55' | 25°26' | M14 |
| T 15 | 0 10 43 | 0°44'57 | 12°12'3 | 13°41' | 4°52' | 20° 2 | 23°26' | 3°58' | 3°24' | 6° 1 | 13° 5 | 7°44' | 6°38' | 24° 2 | 25°24' | T 15 |
| W16 | 0 14 39 | 1°44'00 | 24°44' | 15° 6 | 6° 6 | 20°44' | 23°21' | 3°54' | 3°23' | 6° 0 | 13°D 5 | 7°43' | 6°35' | 24° 8 | 25°21' | W16 |
| T 17 | 0 18 36 | 2°43'04 | 7°3 6 | 16°35' | 7°20' | 21°26' | 23°16' | 3°51' | 3°22' | 5°58' | 13° 5 | 7°D43 | 6°32' | 24°15' | 25°19' | T 17 |
| F 18 | 0 22 32 | 3°42'11 | 19°12' | 18° 7 | 8°33' | 22° 8 | 23°12' | 3°47' | 3°21' | 5°57' | 13° 5 | 7°44' | 6°29' | 24°22' | 25°17' | F 18 |
| S 19 | 0 26 29 | 4°41'19 | 1°17'7 | 19°42' | 9°47' | 22°51' | 23° 8 | 3°43' | 3°20' | 5°56' | 13° 5 | 7°45' | 6°26' | 24°28' | 25°15' | S 19 |
| S 20 | 0 30 26 | 5°40'29 | 12°56' | 21°20' | 11° 1 | 23°33' | 23° 4 | 3°40' | 3°19' | 5°54' | 13° 5 | 7°47' | 6°22' | 24°35' | 25°13' | S 20 |
| M21 | 0 34 22 | 6°39'41 | 24°44' | 23° 0 | 12°15' | 24°16' | 23° 0 | 3°36' | 3°18' | 5°53' | 13° 5 | 7°49' | 6°19' | 24°42' | 25°11' | M21 |
| T 22 | 0 38 19 | 7°38'55 | 6°H34 | 24°41' | 13°29' | 24°58' | 22°57' | 3°33' | 3°17' | 5°52' | 13° 6 | 7°R49 | 6°16' | 24°48' | 25° 9 | T 22 |
| W23 | 0 42 15 | 8°38'10 | 18°29' | 26°24' | 14°43' | 25°41' | 22°53' | 3°30' | 3°16' | 5°50' | 13° 6 | 7°49' | 6°13' | 24°55' | 25° 7 | W23 |
| T 24 | 0 46 12 | 9°37'28 | 0°Y34 | 28° 7 | 15°57' | 26°24' | 22°50' | 3°27' | 3°15' | 5°49' | 13° 6 | 7°47' | 6°10' | 25° 2 | 25° 5 | T 24 |
| F 25 | 0 50 8 | 10°36'47 | 12°48' | 29°52' | 17°11' | 27° 7 | 22°47' | 3°23' | 3°13' | 5°48' | 13° 6 | 7°43' | 6° 7 | 25° 8 | 25° 3 | F 25 |
| S 26 | 0 54 5 | 11°36'09 | 25°15' | 1°13'36 | 18°26' | 27°50' | 22°44' | 3°20' | 3°12' | 5°46' | 13° 6 | 7°38' | 6° 3 | 25°15' | 25° 1 | S 26 |
| S 27 | 0 58 1 | 12°35'33 | 7°H54 | 3°21' | 19°40' | 28°33' | 22°42' | 3°17' | 3°11' | 5°45' | 13° 7 | 7°32' | 6° 0 | 25°21' | 25° 0 | S 27 |
| M28 | 1 1 58 | 13°34'59 | 20°45' | 5° 5 | 20°54' | 29°16' | 22°39' | 3°14' | 3°10' | 5°44' | 13° 7 | 7°26' | 5°57' | 25°28' | 24°58' | M28 |
| T 29 | 1 5 55 | 14°34'27 | 3°11'50 | 6°50' | 22° 9 | 29°59' | 22°37' | 3°11' | 3° 8 | 5°43' | 13° 7 | 7°20' | 5°54' | 25°35' | 24°56' | T 29 |
| W30 | 1 9 51 | 15°33'58 | 17°11'7 | 8°13'35 | 23°11'23 | 0°14'42 | 22°35' | 3°H 9 | 3°11'7 | 5°H41 | 13°H 8 | 7°H15 | 5°H51 | 25°41' | 24°55' | W30 |

Delta T = 238.84 sec

Julian Calendar 1 Sept. 1523 == Greg. Calendar 11 Sept. 1523

OCTOBER 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|-----------|----------|----------|----------|----------|--------|-------|--------|-------|--------|-------|-------|--------|--------|------|
| T 1 | 1 13 48 | 16°33'31 | 0°39'39 | 10°19'19 | 24°11'37 | 1°17'26 | 22°R33 | 3°R 6 | 3°R 5 | 5°R40 | 13°H 8 | 7°R12 | 5°H47 | 25°48' | 24°R53 | T 1 |
| F 2 | 1 17 44 | 17°33'06 | 14°23' | 12° 2 | 25°52' | 2° 9 | 22°33' | 3°H 3 | 3°H 4 | 5°H39 | 13° 9 | 7°D11 | 5°44' | 25°55' | 24°55' | F 2 |
| S 3 | 1 21 41 | 18°32'44 | 28°22' | 13°46' | 27° 6 | 2°53' | 22°30' | 3° 1 | 3° 2 | 5°38' | 13° 9 | 7°H11 | 5°41' | 26° 1 | 24°50' | S 3 |
| S 4 | 1 25 37 | 19°32'24 | 12°13'34 | 15°29' | 28°21' | 3°36' | 22°29' | 2°58' | 3° 1 | 5°37' | 13°10' | 7°13' | 5°38' | 26° 8 | 24°49' | S 4 |
| M 5 | 1 29 34 | 20°32'06 | 26°58' | 17°11' | 29°36' | 4°20' | 22°28' | 2°56' | 2°59' | 5°36' | 13°10' | 7°14' | 5°35' | 26°15' | 24°47' | M 5 |
| T 6 | 1 33 30 | 21°31'50 | 11°11'31 | 18°53' | 0°15'50 | 5° 4 | 22°27' | 2°54' | 2°57' | 5°35' | 13°11' | 7°R14 | 5°32' | 26°21' | 24°46' | T 6 |
| W 7 | 1 37 27 | 22°31'37 | 2°6 8 | 20°34' | 2° 5 | 5°47' | 22°26' | 2°52' | 2°55' | 5°34' | 13°11' | 7°13' | 5°28' | 26°28' | 24°45' | W 7 |
| T 8 | 1 41 24 | 23°31'25 | 10°16'45 | 22°15' | 3°20' | 6°31' | 22°26' | 2°50' | 2°54' | 5°33' | 13°12' | 7° 9 | 5°25' | 26°35' | 24°44' | T 8 |
| F 9 | 1 45 20 | 24°31'16 | 25°14' | 23°55' | 4°34' | 7°15' | 22°26' | 2°48' | 2°52' | 5°32' | 13°13' | 7° 3 | 5°22' | 26°41' | 24°43' | F 9 |
| S 10 | 1 49 17 | 25°31'09 | 9°16'29 | 25°34' | 5°49' | 7°59' | 22°D26 | 2°46' | 2°50' | 5°31' | 13°13' | 6°56' | 5°19' | 26°48' | 24°42' | S 10 |
| S 11 | 1 53 13 | 26°31'04 | 23°25' | 27°14' | 7° 4 | 8°43' | 22°26' | 2°44' | 2°48' | 5°30' | 13°14' | 6°47' | 5°16' | 26°55' | 24°41' | S 11 |
| M12 | 1 57 10 | 27°31'00 | 6°17'57 | 28°52' | 8°19' | 9°28' | 22°26' | 2°42' | 2°46' | 5°29' | 13°15' | 6°39' | 5°13' | 27° 1 | 24°40' | M12 |
| T 13 | 2 1 6 | 28°30'59 | 20° 5 | 0°16'30 | 9°34' | 10°12' | 22°27' | 2°41' | 2°44' | 5°28' | 13°16' | 6°31' | 5° 9 | 27° 8 | 24°39' | T 13 |
| W14 | 2 5 3 | 29°30'59 | 2°34'9 | 2° 8 | 10°49' | 10°56' | 22°28' | 2°39' | 2°42' | 5°28' | 13°16' | 6°26' | 5° 6 | 27°14' | 24°38' | W14 |
| T 15 | 2 8 59 | 0°13'00 | 15°12' | 3°45' | 12° 4 | 11°41' | 22°29' | 2°38' | 2°40' | 5°27' | 13°17' | 6°22' | 5° 3 | 27°21' | 24°37' | T 15 |
| F 16 | 2 12 56 | 1°31'04 | 27°19' | 5°21' | 13°19' | 12°25' | 22°30' | 2°36' | 2°38' | 5°26' | 13°18' | 6°D21 | 5° 0 | 27°28' | 24°37' | F 16 |
| S 17 | 2 16 53 | 2°31'09 | 9°11'4 | 6°57' | 14°33' | 13°10' | 22°31' | 2°35' | 2°36' | 5°25' | 13°19' | 6°21' | 4°57' | 27°34' | 24°36' | S 17 |
| S 18 | 2 20 49 | 3°31'15 | 21° 3 | 8°33' | 15°48' | 13°54' | 22°33' | 2°34' | 2°34' | 5°25' | 13°20' | 6°22' | 4°53' | 27°41' | 24°36' | S 18 |
| M19 | 2 24 46 | 4°31'23 | 2°H51 | 10° 8 | 17° 3 | 14°39' | 22°35' | 2°33' | 2°32' | 5°24' | 13°21' | 6°R23 | 4°50' | 27°48' | 24°35' | M19 |
| T 20 | 2 28 42 | 5°31'33 | 14°43' | 11°43' | 18°19' | 15°23' | 22°37' | 2°32' | 2°30' | 5°23' | 13°22' | 6°22' | 4°47' | 27°54' | 24°35' | T 20 |
| W21 | 2 32 39 | 6°31'44 | 26°43' | 13°17' | 19°34' | 16° 8 | 22°39' | 2°32' | 2°28' | 5°23' | 13°23' | 6°20' | 4°44' | 28° 1 | 24°34' | W21 |
| T 22 | 2 36 35 | 7°31'57 | 8°Y56 | 14°51' | 20°49' | 16°53' | 22°41' | 2°31' | 2°25' | 5°22' | 13°24' | 6°15' | 4°41' | 28° 8 | 24°34' | T 22 |
| F 23 | 2 40 32 | 8°32'11 | 21°24' | 16°25' | 22° 4 | 17°38' | 22°44' | 2°30' | 2°23' | 5°22' | 13°25' | 6° 8 | 4°38' | 28°14' | 24°34' | F 23 |
| S 24 | 2 44 28 | 9°32'27 | 4°H 8 | 17°58' | 23°19' | 18°23' | 22°47' | 2°30' | 2°21' | 5°21' | 13°26' | 5°58' | 4°34' | 28°21' | 24°34' | S 24 |
| S 25 | 2 48 25 | 10°32'45 | 17° 8 | 19°31' | 24°34' | 19° 8 | 22°50' | 2°29' | 2°19' | 5°21' | 13°27' | 5°47' | 4°31' | 28°28' | 24°33' | S 25 |
| M26 | 2 52 21 | 11°33'05 | 0°11'23 | 21° 3 | 25°49' | 19°53' | 22°53' | 2°29' | 2°16' | 5°20' | 13°28' | 5°35' | 4°28' | 28°34' | 24°D33 | M26 |
| T 27 | 2 56 18 | 12°33'27 | 13°51' | 22°36' | 27° 4 | 20°38' | 22°56' | 2°29' | 2°14' | 5°20' | 13°29' | 5°24' | 4°25' | 28°41' | 24°33' | T 27 |
| W28 | 3 0 15 | 13°33'50 | 27°30' | 24° 8 | 28°20' | 21°23' | 23° 0 | 2°D29 | 2°12' | 5°19' | 13°30' | 5°15' | 4°22' | 28°48' | 24°33' | W28 |
| T 29 | 3 4 11 | 14°34'15 | 11°15'18 | 25°39' | 29°35' | 22° 9 | 23° 3 | 2°29' | 2° 9 | 5°19' | 13°32' | 5° 8 | 4°19' | 28°54' | 24°34' | T 29 |
| F 30 | 3 8 8 | 15°34'43 | 25°12' | 27°11' | 0°16'50 | 22°54' | 23° 7 | 2°29' | 2° 7 | 5°19' | 13°33' | 5° 4 | 4°15' | 29° 1 | 24°34' | F 30 |
| S 31 | 3 12 4 | 16°13'512 | 9°11'1 | 28°14'2 | 2°16'5 | 23°17'39 | 23°12' | 2°H29 | 2°11'5 | 5°H18 | 13°H34 | 5°H 3 | 4°H12 | 29°17 | 24°34' | S 31 |

Delta T = 238.66 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1523

geocentric

NOVEMBER 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|---------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|------|
| S 1 | 3 16 1 | 17 ¹¹ 35'43 | 23 ⁰ 15 | 0 ¹ 12 | 3 ¹¹ 21 | 24 ¹ 25 | 23 ¹ 16 | 2 ¹ 30 | 2 ¹ R 2 | 5 ¹ R18 | 13 ¹ 35 | 5 ¹ D 3 | 4 ¹ 9 | 29 ¹ 14 | 24 ¹ 34 | S 1 |
| M 2 | 3 19 57 | 18 ⁰ 36'15 | 7 ¹¹ 22 | 1 ⁰ 43 | 4 ⁰ 36 | 25 ⁰ 10 | 23 ⁰ 20 | 2 ⁰ 30 | 2 ¹ II 0 | 5 ¹ 18 | 13 ⁰ 37 | 5 ⁰ R 3 | 4 ⁰ 6 | 29 ⁰ 21 | 24 ⁰ 35 | M 2 |
| T 3 | 3 23 54 | 19 ⁰ 36'50 | 21 ⁰ 33 | 3 ⁰ 13 | 5 ⁰ 51 | 25 ⁰ 56 | 23 ⁰ 25 | 2 ⁰ 31 | 1 ⁰ 57 | 5 ⁰ 18 | 13 ⁰ 38 | 5 ⁰ 2 | 4 ⁰ 3 | 29 ⁰ 27 | 24 ⁰ 35 | T 3 |
| W 4 | 3 27 51 | 20 ⁰ 37'26 | 5 ¹¹ 44 | 4 ⁰ 43 | 7 ⁰ 7 | 26 ⁰ 41 | 23 ⁰ 30 | 2 ⁰ 32 | 1 ⁰ 55 | 5 ⁰ 18 | 13 ⁰ 39 | 4 ⁰ 59 | 3 ⁰ 59 | 29 ⁰ 34 | 24 ⁰ 36 | W 4 |
| T 5 | 3 31 47 | 21 ⁰ 38'04 | 19 ⁰ 54 | 6 ⁰ 12 | 8 ⁰ 22 | 27 ⁰ 27 | 23 ⁰ 35 | 2 ⁰ 32 | 1 ⁰ 52 | 5 ⁰ 18 | 13 ⁰ 41 | 4 ⁰ 53 | 3 ⁰ 56 | 29 ⁰ 41 | 24 ⁰ 36 | T 5 |
| F 6 | 3 35 44 | 22 ⁰ 38'44 | 3 ¹¹ 59 | 7 ⁰ 41 | 9 ⁰ 37 | 28 ⁰ 13 | 23 ⁰ 40 | 2 ⁰ 33 | 1 ⁰ 50 | 5 ⁰ 18 | 13 ⁰ 42 | 4 ⁰ 44 | 3 ⁰ 53 | 29 ⁰ 47 | 24 ⁰ 37 | F 6 |
| S 7 | 3 39 40 | 23 ⁰ 39'25 | 17 ⁰ 53 | 9 ⁰ 10 | 10 ⁰ 53 | 28 ⁰ 59 | 23 ⁰ 46 | 2 ⁰ 34 | 1 ⁰ 47 | 5 ⁰ 17 | 13 ⁰ 44 | 4 ⁰ 32 | 3 ⁰ 50 | 29 ⁰ 54 | 24 ⁰ 38 | S 7 |
| S 8 | 3 43 37 | 24 ⁰ 40'08 | 1 ¹ 33 | 10 ⁰ 38 | 12 ⁰ 8 | 29 ⁰ 44 | 23 ⁰ 51 | 2 ⁰ 35 | 1 ⁰ 45 | 5 ⁰ D17 | 13 ⁰ 45 | 4 ⁰ 19 | 3 ⁰ 47 | 0 ¹ 1 | 24 ⁰ 38 | S 8 |
| M 9 | 3 47 33 | 25 ⁰ 40'52 | 14 ⁰ 55 | 12 ⁰ 6 | 13 ⁰ 24 | 0 ¹ 30 | 23 ⁰ 57 | 2 ⁰ 37 | 1 ⁰ 42 | 5 ⁰ 17 | 13 ⁰ 46 | 4 ⁰ 6 | 3 ⁰ 44 | 0 ⁰ 7 | 24 ⁰ 39 | M 9 |
| T 10 | 3 51 30 | 26 ⁰ 41'38 | 27 ⁰ 57 | 13 ⁰ 33 | 14 ⁰ 39 | 1 ⁰ 16 | 24 ⁰ 3 | 2 ⁰ 38 | 1 ⁰ 40 | 5 ⁰ 18 | 13 ⁰ 48 | 3 ⁰ 54 | 3 ⁰ 40 | 0 ⁰ 14 | 24 ⁰ 40 | T 10 |
| W11 | 3 55 26 | 27 ⁰ 42'25 | 10 ¹ 38 | 15 ⁰ 0 | 15 ⁰ 54 | 2 ⁰ 2 | 24 ⁰ 9 | 2 ⁰ 39 | 1 ⁰ 37 | 5 ⁰ 18 | 13 ⁰ 49 | 3 ⁰ 44 | 3 ⁰ 37 | 0 ⁰ 21 | 24 ⁰ 41 | W11 |
| T 12 | 3 59 23 | 28 ⁰ 43'12 | 23 ⁰ 1 | 16 ⁰ 26 | 17 ⁰ 10 | 2 ⁰ 48 | 24 ⁰ 15 | 2 ⁰ 41 | 1 ⁰ 35 | 5 ⁰ 18 | 13 ⁰ 51 | 3 ⁰ 37 | 3 ⁰ 34 | 0 ⁰ 27 | 24 ⁰ 42 | T 12 |
| F 13 | 4 3 20 | 29 ⁰ 44'01 | 5 ¹ 33 | 17 ⁰ 51 | 18 ⁰ 25 | 3 ⁰ 34 | 24 ⁰ 22 | 2 ⁰ 43 | 1 ⁰ 32 | 5 ⁰ 18 | 13 ⁰ 52 | 3 ⁰ 33 | 3 ⁰ 31 | 0 ⁰ 34 | 24 ⁰ 43 | F 13 |
| S 14 | 4 7 16 | 0 ¹ 44'51 | 17 ⁰ 3 | 19 ⁰ 15 | 19 ⁰ 41 | 4 ⁰ 20 | 24 ⁰ 29 | 2 ⁰ 44 | 1 ⁰ 30 | 5 ⁰ 18 | 13 ⁰ 54 | 3 ⁰ 31 | 3 ⁰ 28 | 0 ⁰ 40 | 24 ⁰ 44 | S 14 |
| S 15 | 4 11 13 | 1 ⁰ 45'41 | 28 ⁰ 51 | 20 ⁰ 38 | 20 ⁰ 56 | 5 ⁰ 7 | 24 ⁰ 35 | 2 ⁰ 46 | 1 ⁰ 27 | 5 ⁰ 18 | 13 ⁰ 56 | 3 ⁰ 31 | 3 ⁰ 25 | 0 ⁰ 47 | 24 ⁰ 45 | S 15 |
| M16 | 4 15 9 | 2 ⁰ 46'33 | 10 ¹ 39 | 22 ⁰ 0 | 22 ⁰ 12 | 5 ⁰ 53 | 24 ⁰ 42 | 2 ⁰ 48 | 1 ⁰ 25 | 5 ⁰ 19 | 13 ⁰ 57 | 3 ⁰ 31 | 3 ⁰ 21 | 0 ⁰ 54 | 24 ⁰ 47 | M16 |
| T 17 | 4 19 6 | 3 ⁰ 47'25 | 22 ⁰ 31 | 23 ⁰ 20 | 23 ⁰ 27 | 6 ⁰ 39 | 24 ⁰ 49 | 2 ⁰ 50 | 1 ⁰ 22 | 5 ⁰ 19 | 13 ⁰ 59 | 3 ⁰ 30 | 3 ⁰ 18 | 1 ⁰ 0 | 24 ⁰ 48 | T 17 |
| W18 | 4 23 2 | 4 ⁰ 48'18 | 4 ¹ 34 | 24 ⁰ 39 | 24 ⁰ 43 | 7 ⁰ 25 | 24 ⁰ 57 | 2 ⁰ 52 | 1 ⁰ 19 | 5 ⁰ 19 | 14 ⁰ 0 | 3 ⁰ 27 | 3 ⁰ 15 | 1 ⁰ 7 | 24 ⁰ 49 | W18 |
| T 19 | 4 26 59 | 5 ⁰ 49'12 | 16 ⁰ 51 | 25 ⁰ 56 | 25 ⁰ 58 | 8 ⁰ 12 | 25 ⁰ 4 | 2 ⁰ 54 | 1 ⁰ 17 | 5 ⁰ 20 | 14 ⁰ 2 | 3 ⁰ 22 | 3 ⁰ 12 | 1 ⁰ 14 | 24 ⁰ 51 | T 19 |
| F 20 | 4 30 55 | 6 ⁰ 50'07 | 29 ⁰ 27 | 27 ⁰ 10 | 27 ⁰ 14 | 8 ⁰ 58 | 25 ⁰ 12 | 2 ⁰ 57 | 1 ⁰ 14 | 5 ⁰ 20 | 14 ⁰ 4 | 3 ⁰ 14 | 3 ⁰ 9 | 1 ⁰ 20 | 24 ⁰ 52 | F 20 |
| S 21 | 4 34 52 | 7 ⁰ 51'03 | 12 ¹ 24 | 28 ⁰ 23 | 28 ⁰ 29 | 9 ⁰ 45 | 25 ⁰ 20 | 2 ⁰ 59 | 1 ⁰ 12 | 5 ⁰ 21 | 14 ⁰ 6 | 3 ⁰ 3 | 3 ⁰ 5 | 1 ⁰ 27 | 24 ⁰ 54 | S 21 |
| S 22 | 4 38 49 | 8 ⁰ 51'59 | 25 ⁰ 42 | 29 ⁰ 32 | 29 ⁰ 44 | 10 ⁰ 31 | 25 ⁰ 27 | 3 ⁰ 2 | 1 ⁰ 9 | 5 ⁰ 21 | 14 ⁰ 7 | 2 ⁰ 51 | 3 ⁰ 2 | 1 ⁰ 34 | 24 ⁰ 55 | S 22 |
| M23 | 4 42 45 | 9 ⁰ 52'57 | 9 ¹ 20 | 0 ¹ 38 | 1 ¹ 0 | 11 ⁰ 18 | 25 ⁰ 35 | 3 ⁰ 4 | 1 ⁰ 7 | 5 ⁰ 22 | 14 ⁰ 9 | 2 ⁰ 38 | 2 ⁰ 59 | 1 ⁰ 40 | 24 ⁰ 57 | M23 |
| T 24 | 4 46 42 | 10 ⁰ 53'56 | 23 ⁰ 14 | 1 ⁰ 40 | 2 ⁰ 15 | 12 ⁰ 4 | 25 ⁰ 44 | 3 ⁰ 7 | 1 ⁰ 4 | 5 ⁰ 22 | 14 ⁰ 11 | 2 ⁰ 25 | 2 ⁰ 56 | 1 ⁰ 47 | 24 ⁰ 59 | T 24 |
| W25 | 4 50 38 | 11 ⁰ 54'55 | 7 ¹ 20 | 2 ⁰ 37 | 3 ⁰ 31 | 12 ⁰ 51 | 25 ⁰ 52 | 3 ⁰ 10 | 1 ⁰ 2 | 5 ⁰ 23 | 14 ⁰ 12 | 2 ⁰ 15 | 2 ⁰ 53 | 1 ⁰ 54 | 25 ⁰ 1 | W25 |
| T 26 | 4 54 35 | 12 ⁰ 55'56 | 21 ⁰ 34 | 3 ⁰ 30 | 4 ⁰ 46 | 13 ⁰ 37 | 26 ⁰ 0 | 3 ⁰ 13 | 0 ⁰ 59 | 5 ⁰ 23 | 14 ⁰ 14 | 2 ⁰ 7 | 2 ⁰ 50 | 2 ⁰ 0 | 25 ⁰ 2 | T 26 |
| F 27 | 4 58 31 | 13 ⁰ 56'57 | 5 ¹ 24 | 4 ⁰ 17 | 6 ⁰ 2 | 14 ⁰ 24 | 26 ⁰ 9 | 3 ⁰ 16 | 0 ⁰ 57 | 5 ⁰ 24 | 14 ⁰ 16 | 2 ⁰ 2 | 2 ⁰ 46 | 2 ⁰ 7 | 25 ⁰ 4 | F 27 |
| S 28 | 5 2 28 | 14 ⁰ 57'59 | 20 ⁰ 4 | 4 ⁰ 57 | 7 ⁰ 17 | 15 ⁰ 11 | 26 ⁰ 18 | 3 ⁰ 19 | 0 ⁰ 55 | 5 ⁰ 25 | 14 ⁰ 18 | 2 ⁰ 0 | 2 ⁰ 43 | 2 ⁰ 14 | 25 ⁰ 6 | S 28 |
| S 29 | 5 6 24 | 15 ⁰ 59'03 | 4 ¹ 14 | 5 ⁰ 29 | 8 ⁰ 33 | 15 ⁰ 57 | 26 ⁰ 27 | 3 ⁰ 22 | 0 ⁰ 52 | 5 ⁰ 25 | 14 ⁰ 20 | 1 ⁰ D59 | 2 ⁰ 40 | 2 ⁰ 20 | 25 ⁰ 8 | S 29 |
| M30 | 5 10 21 | 17 ⁰ 0'07 | 18 ⁰ 19 | 5 ⁰ 53 | 9 ⁰ 49 | 16 ⁰ 24 | 26 ⁰ 36 | 3 ⁰ 26 | 0 ¹ 50 | 5 ⁰ 26 | 14 ⁰ 21 | 1 ⁰ R59 | 2 ⁰ 37 | 2 ⁰ 27 | 25 ⁰ 10 | M30 |

Delta T = 238.47 sec

Julian Calendar 1 Nov. 1523 == Greg. Calendar 11 Nov. 1523

DECEMBER 1523 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|---------------------|-------------------|--------------------|--------------------|-------------------|-------------------|--------------------|------|
| T 1 | 5 14 18 | 18 ¹ 1'12 | 2 ¹ 18 | 6 ¹ 8 | 11 ¹ 4 | 17 ¹ 31 | 26 ¹ 45 | 3 ¹ 29 | 0 ¹ R47 | 5 ¹ 27 | 14 ¹ 23 | 1 ⁰ R59 | 2 ¹ 34 | 2 ¹ 33 | 25 ¹ 12 | T 1 |
| W 2 | 5 18 14 | 19 ⁰ 2'18 | 16 ⁰ 11 | 6 ⁰ R13 | 12 ⁰ 20 | 18 ⁰ 18 | 26 ⁰ 54 | 3 ⁰ 32 | 0 ¹ II45 | 5 ⁰ 28 | 14 ⁰ 25 | 1 ¹ 56 | 2 ⁰ 31 | 2 ⁰ 40 | 25 ⁰ 15 | W 2 |
| T 3 | 5 22 11 | 20 ⁰ 3'26 | 29 ⁰ 57 | 6 ⁰ 7 | 13 ⁰ 35 | 19 ⁰ 5 | 27 ⁰ 4 | 3 ⁰ 36 | 0 ⁰ 43 | 5 ⁰ 29 | 14 ⁰ 27 | 1 ⁰ 50 | 2 ⁰ 27 | 2 ⁰ 47 | 25 ⁰ 17 | T 3 |
| F 4 | 5 26 7 | 21 ⁰ 4'34 | 13 ¹ 34 | 5 ⁰ 50 | 14 ⁰ 51 | 19 ⁰ 51 | 27 ⁰ 13 | 3 ⁰ 40 | 0 ⁰ 40 | 5 ⁰ 29 | 14 ⁰ 29 | 1 ⁰ 42 | 2 ⁰ 24 | 2 ⁰ 53 | 25 ⁰ 19 | F 4 |
| S 5 | 5 30 4 | 22 ⁰ 5'42 | 27 ⁰ 2 | 5 ⁰ 21 | 16 ⁰ 6 | 20 ⁰ 38 | 27 ⁰ 23 | 3 ⁰ 43 | 0 ⁰ 38 | 5 ⁰ 30 | 14 ⁰ 31 | 1 ⁰ 31 | 2 ⁰ 21 | 3 ⁰ 0 | 25 ⁰ 21 | S 5 |
| S 6 | 5 34 0 | 23 ⁰ 6'52 | 10 ¹ 18 | 4 ⁰ 40 | 17 ⁰ 22 | 21 ⁰ 25 | 27 ⁰ 33 | 3 ⁰ 47 | 0 ⁰ 36 | 5 ⁰ 31 | 14 ⁰ 33 | 1 ⁰ 19 | 2 ⁰ 18 | 3 ⁰ 7 | 25 ⁰ 24 | S 6 |
| M 7 | 5 37 57 | 24 ⁰ 8'02 | 23 ⁰ 20 | 3 ⁰ 49 | 18 ⁰ 37 | 22 ⁰ 12 | 27 ⁰ 43 | 3 ⁰ 51 | 0 ⁰ 33 | 5 ⁰ 32 | 14 ⁰ 35 | 1 ⁰ 7 | 2 ⁰ 15 | 3 ⁰ 13 | 25 ⁰ 26 | M 7 |
| T 8 | 5 41 54 | 25 ⁰ 9'12 | 6 ¹ 7 | 2 ⁰ 47 | 19 ⁰ 53 | 22 ⁰ 59 | 27 ⁰ 53 | 3 ⁰ 55 | 0 ⁰ 31 | 5 ⁰ 33 | 14 ⁰ 37 | 0 ⁰ 55 | 2 ⁰ 11 | 3 ⁰ 20 | 25 ⁰ 29 | T 8 |
| W 9 | 5 45 50 | 26 ⁰ 10'22 | 18 ⁰ 39 | 1 ⁰ 36 | 21 ⁰ 8 | 23 ⁰ 46 | 28 ⁰ 3 | 3 ⁰ 59 | 0 ⁰ 29 | 5 ⁰ 34 | 14 ⁰ 38 | 0 ⁰ 46 | 2 ⁰ 8 | 3 ⁰ 27 | 25 ⁰ 31 | W 9 |
| T 10 | 5 49 47 | 27 ⁰ 11'33 | 0 ¹ 55 | 0 ⁰ 19 | 22 ⁰ 24 | 24 ⁰ 33 | 28 ⁰ 13 | 4 ⁰ 4 | 0 ⁰ 27 | 5 ⁰ 35 | 14 ⁰ 40 | 0 ⁰ 39 | 2 ⁰ 5 | 3 ⁰ 33 | 25 ⁰ 34 | T 10 |
| F 11 | 5 53 43 | 28 ⁰ 12'44 | 12 ⁰ 59 | 28 ⁰ 58 | 23 ⁰ 39 | 25 ⁰ 21 | 28 ⁰ 24 | 4 ⁰ 8 | 0 ⁰ 25 | 5 ⁰ 37 | 14 ⁰ 42 | 0 ⁰ 34 | 2 ⁰ 2 | 3 ⁰ 40 | 25 ⁰ 36 | F 11 |
| S 12 | 5 57 40 | 29 ⁰ 13'55 | 24 ⁰ 52 | 27 ⁰ 36 | 24 ⁰ 55 | 26 ⁰ 8 | 28 ⁰ 34 | 4 ⁰ 12 | 0 ⁰ 22 | 5 ⁰ 38 | 14 ⁰ 44 | 0 ⁰ 33 | 1 ⁰ 59 | 3 ⁰ 47 | 25 ⁰ 39 | S 12 |
| S 13 | 6 1 36 | 0 ¹ 15'06 | 6 ¹ 40 | 26 ⁰ 15 | 26 ⁰ 10 | 26 ⁰ 55 | 28 ⁰ 45 | 4 ⁰ 17 | 0 ⁰ 20 | 5 ⁰ 39 | 14 ⁰ 46 | 0 ⁰ D33 | 1 ⁰ 56 | 3 ⁰ 53 | 25 ⁰ 42 | S 13 |
| M14 | 6 5 33 | 1 ⁰ 16'17 | 18 ⁰ 27 | 24 ⁰ 59 | 27 ⁰ 26 | 27 ⁰ 42 | 28 ⁰ 56 | 4 ⁰ 21 | 0 ⁰ 18 | 5 ⁰ 40 | 14 ⁰ 48 | 0 ⁰ 33 | 1 ⁰ 52 | 4 ⁰ 0 | 25 ⁰ 45 | M14 |
| T 15 | 6 9 29 | 2 ⁰ 17'27 | 0 ¹ Y18 | 23 ⁰ 48 | 28 ⁰ 41 | 28 ⁰ 29 | 29 ⁰ 7 | 4 ⁰ 26 | 0 ⁰ 16 | 5 ⁰ 41 | 14 ⁰ 50 | 0 ⁰ R34 | 1 ⁰ 49 | 4 ⁰ 6 | 25 ⁰ 47 | T 15 |
| W16 | 6 13 26 | 3 ⁰ 18'38 | 12 ⁰ 19 | 22 ⁰ 46 | 29 ⁰ 57 | 29 ⁰ 16 | 29 ⁰ 18 | 4 ⁰ 31 | 0 ⁰ 14 | 5 ⁰ 42 | 14 ⁰ 52 | 0 ⁰ 33 | 1 ⁰ 46 | 4 ⁰ 13 | 25 ⁰ 50 | W16 |
| T 17 | 6 17 23 | 4 ⁰ 19'48 | 24 ⁰ 36 | 21 ⁰ 52 | 1 ¹ 32 | 0 ⁰ 4 | 29 ⁰ 29 | 4 ⁰ 35 | 0 ⁰ 12 | 5 ⁰ 44 | 14 ⁰ 54 | 0 ⁰ 31 | 1 ⁰ 43 | 4 ⁰ 20 | 25 ⁰ 53 | T 17 |