



# Astrodienst Ephemeris Tables for the year 1414

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 1414

geocentric

## JANUARY 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	7 15 8	19°31'53	13°33	10°22	18°23	5°56	5°21	18°R 8	15°29	6°R53	18°R 2	28°R 2	28°28	29°56	21°38	M 1
T 2	7 19 4	20°20'58	27°20	11°58	19°37	6°16	5°32	18°II 4	15°32	6°51	18°II 1	28°3 1	28°25	0°3	21°44	T 2
W 3	7 23 1	21°22'03	10°II56	13°34	20°51	6°35	5°44	18° 0	15°35	6°49	18° 0	28° 0	28°22	0°10	21°49	W 3
T 4	7 26 58	22°23'07	24°20	15°10	22° 5	6°54	5°55	17°56	15°39	6°48	17°59	27°59	28°19	0°16	21°54	T 4
F 5	7 30 54	23°24'10	7°30	16°47	23°19	7°12	6° 6	17°53	15°42	6°46	17°58	27°59	28°15	0°23	22° 0	F 5
S 6	7 34 51	24°25'12	20°27	18°25	24°33	7°30	6°17	17°49	15°45	6°45	17°57	27°59	28°12	0°30	22° 5	S 6
S 7	7 38 47	25°26'13	3°9	20° 3	25°47	7°47	6°28	17°46	15°49	6°43	17°56	27°D59	28° 9	0°37	22°10	S 7
M 8	7 42 44	26°27'13	15°37	21°42	27° 1	8° 5	6°39	17°43	15°52	6°41	17°55	27°59	28° 6	0°43	22°15	M 8
T 9	7 46 40	27°28'12	27°53	23°22	28°15	8°21	6°50	17°39	15°55	6°40	17°54	27°R59	28° 3	0°50	22°19	T 9
W10	7 50 37	28°29'11	9°59	25° 2	29°29	8°37	7° 0	17°36	15°59	6°38	17°53	27°59	28° 0	0°57	22°24	W10
T 11	7 54 33	29°30'09	21°56	26°43	0°43	8°53	7°11	17°33	16° 2	6°37	17°52	27°59	27°56	1° 3	22°29	T 11
F 12	7 58 30	0°31'06	3°48	28°25	1°56	9° 8	7°22	17°30	16° 5	6°35	17°51	27°58	27°53	1°10	22°34	F 12
S 13	8 2 27	1°32'02	15°40	0°7	3°10	9°23	7°32	17°27	16° 9	6°34	17°51	27°58	27°50	1°17	22°38	S 13
S 14	8 6 23	2°32'58	27°35	1°50	4°24	9°38	7°42	17°25	16°12	6°32	17°50	27°D58	27°47	1°23	22°42	S 14
M15	8 10 20	3°33'53	9°38	3°33	5°37	9°51	7°53	17°22	16°15	6°31	17°49	27°58	27°44	1°30	22°47	M15
T 16	8 14 16	4°34'47	21°54	5°18	6°51	10° 5	8° 3	17°19	16°19	6°29	17°48	27°58	27°41	1°37	22°51	T 16
W17	8 18 13	5°35'40	4°28	7° 3	8° 5	10°18	8°13	17°17	16°22	6°28	17°48	27°59	27°37	1°44	22°55	W17
T 18	8 22 9	6°36'32	17°22	8°48	9°18	10°30	8°23	17°14	16°26	6°26	17°47	28° 0	27°34	1°50	22°59	T 18
F 19	8 26 6	7°37'24	0°40	10°34	10°31	10°42	8°33	17°12	16°29	6°25	17°46	28° 1	27°31	1°57	23° 3	F 19
S 20	8 30 2	8°38'14	14°22	12°21	11°45	10°53	8°42	17°10	16°33	6°23	17°45	28° 1	27°28	2° 4	23° 7	S 20
S 21	8 33 59	9°39'03	28°27	14° 9	12°58	11° 3	8°52	17° 8	16°36	6°22	17°45	28°R 2	27°25	2°10	23°11	S 21
M22	8 37 56	10°39'51	12°52	15°57	14°11	11°13	9° 1	17° 6	16°40	6°21	17°44	28° 1	27°21	2°17	23°15	M22
T 23	8 41 52	11°40'37	27°32	17°46	15°25	11°23	9°11	17° 4	16°43	6°19	17°43	28° 0	27°18	2°24	23°18	T 23
W24	8 45 49	12°41'22	12°19	19°35	16°38	11°32	9°20	17° 2	16°46	6°18	17°43	27°58	27°15	2°31	23°22	W24
T 25	8 49 45	13°42'06	27° 6	21°24	17°51	11°40	9°29	17° 1	16°50	6°17	17°42	27°56	27°12	2°37	23°25	T 25
F 26	8 53 42	14°42'47	11°46	23°13	19° 4	11°48	9°38	16°59	16°53	6°16	17°42	27°54	27° 9	2°44	23°28	F 26
S 27	8 57 38	15°43'27	26°13	25° 3	20°17	11°55	9°47	16°58	16°57	6°14	17°41	27°53	27° 6	2°51	23°31	S 27
S 28	9 1 35	16°44'06	10°23	26°52	21°30	12° 1	9°56	16°57	17° 0	6°13	17°40	27°D52	27° 2	2°57	23°35	S 28
M29	9 5 31	17°44'42	24°16	28°41	22°43	12° 7	10° 5	16°55	17° 4	6°12	17°40	27°52	26°59	3° 4	23°38	M29
T 30	9 9 28	18°45'17	7°II50	0°429	23°55	12°12	10°13	16°54	17° 7	6°11	17°39	27°53	26°56	3°11	23°40	T 30
W31	9 13 25	19°45'50	21°II 7	2°417	25°48	12°16	10°22	16°II53	17°11	6°10	17°II39	27°54	26°53	3°18	23°43	W31

Delta T = 07m31s

Julian Calendar 1 Jan. 1414 == Greg. Calendar 10 Jan. 1414

## FEBRUARY 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	9 17 21	20°46'21	4°8	4°3	26°21	12°20	10°30	16°R52	17°18	6°R 8	17°R38	27°56	26°50	3°24	23°46	T 1
F 2	9 21 18	21°46'51	16°55	5°48	27°33	12°23	10°38	16°II52	17°18	6°7	17°II38	27°57	26°47	3°31	23°49	F 2
S 3	9 25 14	22°47'18	29°29	7°30	28°45	12°25	10°46	16°51	17°21	6° 6	17°R38	27°R57	26°43	3°38	23°51	S 3
S 4	9 29 11	23°47'44	11°53	9°11	29°58	12°27	10°54	16°51	17°25	6° 5	17°37	27°57	26°40	3°44	23°53	S 4
M 5	9 33 7	24°48'08	24° 8	10°48	1°10	12°28	11° 2	16°50	17°28	6° 4	17°37	27°54	26°37	3°51	23°56	M 5
T 6	9 37 4	25°48'30	6°15	12°21	2°22	12°R28	11°10	16°50	17°32	6° 3	17°36	27°51	26°34	3°58	23°58	T 6
W 7	9 41 0	26°48'51	18°15	13°51	3°34	12°27	11°17	16°50	17°35	6° 2	17°36	27°46	26°31	4° 5	24° 0	W 7
T 8	9 44 57	27°49'10	0°10	15°16	4°46	12°26	11°24	16°D50	17°38	6° 1	17°36	27°41	26°27	4°11	24° 2	T 8
F 9	9 48 54	28°49'27	12° 2	16°35	5°58	12°24	11°32	16°50	17°42	6° 0	17°36	27°35	26°24	4°18	24° 4	F 9
S 10	9 52 50	29°49'43	23°53	17°48	7°10	12°21	11°39	16°50	17°45	6° 0	17°35	27°30	26°21	4°25	24° 5	S 10
S 11	9 56 47	0°49'57	5°48	18°55	8°22	12°18	11°46	16°50	17°49	5°59	17°35	27°26	26°18	4°31	24° 7	S 11
M12	10 0 43	1°50'10	17°49	19°55	9°33	12°13	11°52	16°50	17°52	5°58	17°35	27°23	26°15	4°38	24° 9	M12
T 13	10 4 40	2°50'31	0°2	20°47	10°45	12° 8	11°59	16°51	17°56	5°57	17°35	27°D22	26°12	4°45	24°10	T 13
W14	10 8 36	3°50'21	12°30	21°30	11°56	12° 2	12° 6	16°52	17°59	5°56	17°34	27°D22	26° 8	4°52	24°11	W14
T 15	10 12 33	4°50'39	25°19	22° 5	13° 8	11°56	12°12	16°52	18° 2	5°56	17°34	27°23	26° 5	4°58	24°13	T 15
F 16	10 16 29	5°50'45	8°32	22°32	14°19	11°48	12°18	16°53	18° 6	5°55	17°34	27°25	26° 2	5° 5	24°14	F 16
S 17	10 20 26	6°50'50	22°12	22°49	15°30	11°40	12°24	16°54	18° 9	5°54	17°34	27°R26	25°59	5°12	24°15	S 17
S 18	10 24 23	7°50'53	6°19	22°R57	16°41	11°31	12°30	16°55	18°12	5°54	17°34	27°26	25°56	5°18	24°16	S 18
M19	10 28 19	8°50'55	20°53	22°55	17°52	11°21	12°36	16°56	18°16	5°53	17°34	27°24	25°53	5°25	24°16	M19
T 20	10 32 16	9°50'54	5°48	22°45	19° 3	11°10	12°41	16°58	18°19	5°53	17°34	27°20	25°49	5°32	24°17	T 20
W21	10 36 12	10°50'52	20°56	22°26	20°14	10°59	12°47	16°59	18°22	5°52	17°34	27°14	25°46	5°39	24°18	W21
T 22	10 40 9	11°50'47	6°17	22° 0	21°24	10°47	12°52	17° 1	18°25	5°51	17°D34	27° 7	25°43	5°45	24°18	T 22
F 23	10 44 5	12°50'40	21°11	21°26	22°35	10°34	12°57	17° 2	18°29	5°51	17°34	27° 0	25°40	5°52	24°18	F 23
S 24	10 48 2	13°50'32	5°59	20°45	23°45	10°20	13° 2	17° 4	18°32	5°51	17°34	26°54	25°37	5°59	24°19	S 24
S 25	10 51 58	14°50'21	20°24	19°59	24°55	10° 6	13° 7	17° 6	18°35	5°50	17°34	26°49	25°33	6° 5	24°19	S 25
M26	10 55 55	15°50'07	4°II24	19° 9	26° 5	9°51	13°11	17° 8	18°38	5°50	17°34	26°47	25°30	6°12	24°R19	M26
T 27	10 59 51	16°49'52	17°59	18°15	27°15	9°35	13°16	17°10	18°42	5°49	17°34	26°D46	25°27	6°19	24°19	T 27
W28	11 3 48	17°49'34	1°9	17°19	28°Y25	9°19	13°20	17°II12	18°45	5°49	17°II34	26°347	25°24	6°26	24°19	W28

Delta T = 07m30s

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

MARCH 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	11 7 45	18°49'14	13°59	16°R23	29°Y35	9°R 2	13°24	17°II14	18°48	5°R49	17°II34	26°38	25°21	6°32	24°R18	T 1
F 2	11 11 41	19°48'51	26°32	15°X27	0°44	8°44	13°28	17°17	18°51	5°49	17°35	26°R49	25°18	6°39	24°M18	F 2
S 3	11 15 38	20°48'27	8°52	14°33	1°54	8°26	13°32	17°19	18°54	5°48	17°35	26°48	25°14	6°46	24°17	S 3
S 4	11 19 34	21°48'00	21° 2	13°41	3° 3	8° 7	13°35	17°22	18°57	5°48	17°35	26°45	25°11	6°52	24°17	S 4
M 5	11 23 31	22°47'30	3° 5	12°53	4°12	7°48	13°39	17°24	19° 0	5°48	17°35	26°39	25° 8	6°59	24°16	M 5
T 6	11 27 27	23°46'59	15° 2	12°10	5°21	7°28	13°42	17°27	19° 3	5°48	17°36	26°31	25° 5	7° 6	24°15	T 6
W 7	11 31 24	24°46'25	26°57	11°31	6°30	7° 8	13°45	17°30	19° 6	5°48	17°36	26°21	25° 2	7°13	24°14	W 7
T 8	11 35 20	25°45'50	8°50	10°57	7°39	6°47	13°48	17°33	19° 9	5°48	17°36	26°10	24°58	7°19	24°13	T 8
F 9	11 39 17	26°45'12	20°42	10°29	8°47	6°26	13°50	17°36	19°12	5°D48	17°36	25°58	24°55	7°26	24°12	F 9
S 10	11 43 14	27°44'32	2°36	10° 7	9°56	6° 4	13°53	17°39	19°15	5°48	17°37	25°47	24°52	7°33	24°11	S 10
S 11	11 47 10	28°43'51	14°33	9°51	11° 4	5°42	13°55	17°43	19°18	5°48	17°37	25°37	24°49	7°39	24°10	S 11
M12	11 51 7	29°43'08	26°36	9°40	12°12	5°20	13°57	17°46	19°21	5°48	17°38	25°30	24°46	7°46	24° 8	M12
T 13	11 55 3	0°Y42'23	8°48	9°D36	13°20	4°57	13°59	17°49	19°23	5°48	17°38	25°25	24°43	7°53	24° 7	T 13
W14	11 59 0	1°41'36	21°14	9°37	14°27	4°35	14° 1	17°53	19°26	5°48	17°39	25°23	24°39	8° 0	24° 5	W14
T 15	12 2 56	2°40'47	3°58	9°44	15°35	4°12	14° 2	17°57	19°29	5°49	17°39	25°D22	24°36	8° 6	24° 4	T 15
F 16	12 6 53	3°39'57	17° 3	9°56	16°42	3°49	14° 4	18° 1	19°32	5°49	17°39	25°22	24°33	8°13	24° 2	F 16
S 17	12 10 49	4°39'04	0°35	10°13	17°49	3°26	14° 5	18° 4	19°34	5°49	17°40	25°R22	24°30	8°20	24° 0	S 17
S 18	12 14 46	5°38'10	14°34	10°35	18°56	3° 2	14° 6	18° 8	19°37	5°49	17°41	25°21	24°27	8°26	23°58	S 18
M19	12 18 43	6°37'14	29° 2	11° 1	20° 3	2°39	14° 7	18°12	19°40	5°50	17°41	25°17	24°24	8°33	23°56	M19
T 20	12 22 39	7°36'16	13°55	11°32	21° 9	2°16	14° 8	18°17	19°42	5°50	17°42	25°11	24°20	8°40	23°54	T 20
W21	12 26 36	8°35'17	29° 6	12° 7	22°15	1°53	14° 8	18°21	19°45	5°51	17°42	25° 2	24°17	8°47	23°51	W21
T 22	12 30 32	9°34'15	14°Y26	12°47	23°22	1°30	14° 8	18°25	19°47	5°51	17°43	24°52	24°14	8°53	23°49	T 22
F 23	12 34 29	10°33'11	29°43	13°29	24°27	1° 7	14°R 8	18°29	19°50	5°51	17°43	24°41	24°11	9° 0	23°47	F 23
S 24	12 38 25	11°32'05	14°46	14°16	25°33	0°45	14° 8	18°34	19°52	5°52	17°44	24°32	24° 8	9° 7	23°44	S 24
S 25	12 42 22	12°30'57	29°26	15° 6	26°39	0°23	14° 8	18°39	19°55	5°52	17°45	24°24	24° 4	9°13	23°41	S 25
M26	12 46 18	13°29'47	13°II38	15°59	27°44	0° 1	14° 7	18°43	19°57	5°53	17°46	24°18	24° 1	9°20	23°39	M26
T 27	12 50 15	14°28'34	27°20	16°55	28°49	29°39	14° 7	18°48	20° 0	5°54	17°46	24°16	23°58	9°27	23°36	T 27
W28	12 54 12	15°27'19	10°34	17°54	29°53	29°18	14° 6	18°53	20° 2	5°54	17°47	24°15	23°55	9°34	23°33	W28
T 29	12 58 8	16°26'02	23°24	18°56	0°II58	28°57	14° 5	18°58	20° 4	5°55	17°48	24°15	23°52	9°40	23°30	T 29
F 30	13 2 5	17°24'42	5°53	20° 1	2° 2	28°37	14° 3	19° 3	20° 6	5°56	17°49	24°14	23°49	9°47	23°27	F 30
S 31	13 6 1	18°Y23'21	18°52	21°X 8	3°II 6	28°17	14°X 2	19°II 8	20°X 9	5°56	17°II49	24°X13	23°X45	9°54	23°M24	S 31

Delta T = 07m30s

Julian Calendar 1 March 1414 == Greg. Calendar 10 March 1414

APRIL 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	13 9 58	19°Y21'56	0°10	22°X17	4°II 9	27°R58	14°R 0	19°II13	20°X11	5°57	17°II50	24°R 8	23°X42	10°1	23°R21	S 1
M 2	13 13 54	20°20'30	12° 6	23°29	5°13	27°M40	13°X58	19°18	20°13	5°58	17°51	24°X 2	23°39	10° 7	23°M18	M 2
T 3	13 17 51	21°19'02	23°58	24°43	6°16	27°22	13°56	19°23	20°15	5°59	17°52	23°52	23°36	10°14	23°14	T 3
W 4	13 21 47	22°17'31	5°50	26° 0	7°18	27° 4	13°54	19°29	20°17	6° 0	17°53	23°40	23°33	10°21	23°11	W 4
T 5	13 25 44	23°15'59	17°42	27°18	8°21	26°47	13°52	19°34	20°19	6° 0	17°54	23°26	23°30	10°27	23° 8	T 5
F 6	13 29 40	24°14'25	29°37	28°39	9°23	26°31	13°49	19°40	20°21	6° 1	17°54	23°11	23°26	10°34	23° 4	F 6
S 7	13 33 37	25°12'49	11°36	0°Y 1	10°24	26°16	13°47	19°45	20°23	6° 2	17°55	22°58	23°23	10°41	23° 1	S 7
S 8	13 37 34	26°11'11	23°40	1°26	11°26	26° 1	13°44	19°51	20°25	6° 3	17°56	22°46	23°20	10°48	22°57	S 8
M 9	13 41 30	27° 9'31	5°X50	2°53	12°27	25°47	13°41	19°57	20°27	6° 4	17°57	22°37	23°17	10°54	22°53	M 9
T 10	13 45 27	28° 7'50	18° 9	4°21	13°27	25°34	13°37	20° 2	20°29	6° 5	17°58	22°30	23°14	11° 1	22°50	T 10
W11	13 49 23	29° 6'07	0°39	5°52	14°28	25°22	13°34	20° 8	20°30	6° 6	17°59	22°26	23°10	11° 8	22°46	W11
T 12	13 53 20	0° 4'22	13°25	7°24	15°28	25°10	13°30	20°14	20°32	6° 8	18° 0	22°25	23° 7	11°14	22°42	T 12
F 13	13 57 16	1° 2'36	26°28	8°58	16°27	24°59	13°27	20°20	20°34	6° 9	18° 1	22°25	23° 4	11°21	22°38	F 13
S 14	14 1 13	2° 0'49	9°X54	10°35	17°26	24°49	13°23	20°26	20°35	6°10	18° 2	22°25	23° 1	11°28	22°34	S 14
S 15	14 5 10	2°59'00	23°43	12°13	18°25	24°39	13°19	20°32	20°37	6°11	18° 3	22°24	22°58	11°35	22°30	S 15
M16	14 9 6	3°57'09	7°X59	13°52	19°23	24°31	13°14	20°39	20°38	6°12	18° 4	22°20	22°55	11°41	22°26	M16
T 17	14 13 3	4°55'17	22°39	15°34	20°21	24°23	13°10	20°45	20°40	6°13	18° 5	22°14	22°51	11°48	22°22	T 17
W18	14 16 59	5°53'24	7°Y38	17°18	21°18	24°16	13° 5	20°51	20°41	6°15	18° 7	22° 6	22°48	11°55	22°18	W18
T 19	14 20 56	6°51'29	22°48	19° 3	22°15	24° 9	13° 1	20°57	20°43	6°16	18° 8	21°56	22°45	12° 1	22°14	T 19
F 20	14 24 52	7°49'32	8°X 0	20°51	23°12	24° 4	12°56	21° 4	20°44	6°17	18° 9	21°45	22°42	12° 8	22°10	F 20
S 21	14 28 49	8°47'34	23° 3	22°40	24° 8	23°59	12°51	21°10	20°45	6°19	18°10	21°35	22°39	12°15	22° 5	S 21
S 22	14 32 45	9°45'34	7°II46	24°31	25° 3	23°56	12°46	21°17	20°47	6°20	18°11	21°28	22°35	12°22	22° 1	S 22
M23	14 36 42	10°43'33	22° 4	26°24	25°58	23°53	12°40	21°23	20°48	6°21	18°12	21°22	22°32	12°28	21°57	M23
T 24	14 40 39	11°41'30	5°53	28°19	26°52	23°50	12°35	21°30	20°49	6°23	18°13	21°19	22°29	12°35	21°53	T 24
W25	14 44 35	12°39'25	19°14	0°X15	27°46	23°49	12°29	21°37	20°50	6°24	18°15	21°D18	22°26	12°42	21°48	W25
T 26	14 48 32	13°37'18	2°14	28°39	23°D48	12°23	21°43	20°51	20°51	6°26	18°16	21°18	22°23	12°49	21°44	T 26
F 27	14 52 28	14°35'09	14°40	4°14	29°31	23°48	12°18	21°50	20°52	6°27	18°17	21°R19	22°20	12°55	21°40	F 27
S 28	14 56 25	15°32'58	26°54	6°16	0°X23	23°49	12°12	21°57	20°53	6°29	18°18	21°18	22°16	13° 2	21°35	S 28
S 29	15 0 21	16°30'46	8°Y56	8°20	1°14	23°51	12° 6	22° 4	20°54	6°30	18°19	21°16	22°13	13° 9	21°31	S 29
M30	15 4 18	17°X28'31	20°Y51	10°X25	2°52	23°Y53	11°X59	22°II11	20°X55	6°32	18°II21	21°X11	22°X10	13°15	21°M27	M30

Delta T = 07m30s

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

MAY 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	15 8 14	18°8'16"	2°43'	12°32'	2°54'	23°56'	11°53'	22°18'	20°56'	6°34'	18°22'	21°R 4	22°37'	13°22'	21°R22	T 1
W 2	15 12 11	19°23'58"	14°34'	14°40'	3°43'	24° 0'	11°46'	22°25'	20°57'	6°35'	18°23'	20°354	22° 4'	13°29'	21°M18	W 2
T 3	15 16 7	20°21'39"	26°29'	16°49'	4°31'	24° 5'	11°40'	22°32'	20°58'	6°37'	18°24'	20°43'	22° 1'	13°36'	21°13	T 3
F 4	15 20 4	21°19'19"	8°11'29"	18°59'	5°19'	24°10'	11°33'	22°39'	20°58'	6°39'	18°26'	20°32'	21°57'	13°42'	21° 9	F 4
S 5	15 24 1	22°16'58"	20°35'	21°10'	6° 5'	24°16'	11°27'	22°46'	20°59'	6°40'	18°27'	20°22'	21°54'	13°49'	21° 5	S 5
S 6	15 27 57	23°14'35"	2°49'	23°21'	6°51'	24°23'	11°20'	22°53'	20°59'	6°42'	18°28'	20°12'	21°51'	13°56'	21° 0	S 6
M 7	15 31 54	24°12'11"	15°12'	25°33'	7°35'	24°30'	11°13'	23° 0'	21° 0'	6°44'	18°30'	20° 5'	21°48'	14° 2'	20°56'	M 7
T 8	15 35 50	25° 9'45"	27°44'	27°45'	8°19'	24°38'	11° 6'	23° 8'	21° 1'	6°45'	18°31'	20° 1'	21°45'	14° 9'	20°51'	T 8
W 9	15 39 47	26° 7'19"	10°328	29°56'	9° 2'	24°47'	10°59'	23°15'	21° 1'	6°47'	18°32'	19°58'	21°41'	14°16'	20°47'	W 9
T 10	15 43 43	27° 4'52"	2°11' 7	9°44'	9°44'	24°56'	10°52'	23°22'	21° 1'	6°49'	18°34'	19°D58	21°38'	14°23'	20°43'	T 10
F 11	15 47 40	28° 2'24"	6°35'	4°17'	10°24'	25° 6'	10°44'	23°29'	21° 2'	6°51'	18°35'	19°59'	21°35'	14°29'	20°38'	F 11
S 12	15 51 37	28°59'54"	20° 3'	6°26'	11° 4'	25°17'	10°37'	23°37'	21° 2'	6°53'	18°36'	20° 0'	21°32'	14°36'	20°34'	S 12
S 13	15 55 33	29°57'24"	3°11'50	8°33'	11°43'	25°28'	10°30'	23°44'	21° 2'	6°54'	18°38'	20°R 0	21°29'	14°43'	20°30'	S 13
M14	15 59 30	0°11'54'54"	17°56'	10°39'	12°20'	25°39'	10°22'	23°52'	21° 3'	6°56'	18°39'	19°59'	21°26'	14°50'	20°25'	M14
T 15	16 3 26	1°52'22"	2°11'21	12°43'	12°56'	25°52'	10°15'	23°59'	21° 3'	6°58'	18°40'	19°55'	21°22'	14°56'	20°21'	T 15
W16	16 7 23	2°49'50"	17° 0'	14°46'	13°31'	26° 5'	10° 7'	24° 7'	21° 3'	7° 0'	18°42'	19°50'	21°19'	15° 3'	20°17'	W16
T 17	16 11 19	3°47'17"	1°8'50	16°46'	14° 5'	26°18'	10° 0'	24°14'	21° 3'	7° 2'	18°43'	19°44'	21°16'	15°10'	20°13'	T 17
F 18	16 15 16	4°44'43"	16°42'	18°44'	14°37'	26°32'	9°52'	24°22'	21°R 3	7° 4'	18°45'	19°37'	21°13'	15°16'	20° 9	F 18
S 19	16 19 12	5°42'08"	1°11'28	20°40'	15° 8'	26°47'	9°45'	24°29'	21° 3'	7° 6'	18°46'	19°31'	21°10'	15°23'	20° 4	S 19
S 20	16 23 9	6°39'33"	16° 0'	22°33'	15°37'	27° 2'	9°37'	24°37'	21° 3'	7° 8'	18°47'	19°26'	21° 7'	15°30'	20° 0	S 20
M21	16 27 6	7°36'57"	0°11'21	24°24'	16° 5'	27°18'	9°29'	24°44'	21° 3'	7°10'	18°49'	19°22'	21° 3'	15°37'	19°56'	M21
T 22	16 31 2	8°34'20"	13°59'	26°13'	16°31'	27°34'	9°22'	24°52'	21° 2'	7°12'	18°50'	19°D21	21° 0'	15°43'	19°52'	T 22
W23	16 34 59	9°31'41"	27°20'	27°59'	16°56'	27°51'	9°14'	25° 0'	21° 2'	7°14'	18°52'	19°21'	20°57'	15°50'	19°48'	W23
T 24	16 38 55	10°29'02"	10°11'18	29°42'	17°19'	28° 8'	9° 6'	25° 7'	21° 2'	7°16'	18°53'	19°22'	20°54'	15°57'	19°44'	T 24
F 25	16 42 52	11°26'22"	22°53'	18°23'	17°40'	28°26'	8°59'	25°15'	21° 2'	7°18'	18°54'	19°24'	20°51'	16° 4'	19°40'	F 25
S 26	16 46 48	12°23'40"	5°11'11	3° 1'	17°59'	28°44'	8°51'	25°23'	21° 1'	7°20'	18°56'	19°25'	20°47'	16°10'	19°37'	S 26
S 27	16 50 45	13°20'58"	17°16'	4°36'	18°17'	29° 2'	8°43'	25°31'	21° 1'	7°22'	18°57'	19°R25	20°44'	16°17'	19°33'	S 27
M28	16 54 41	14°18'14"	29°12'	6° 9'	18°32'	29°22'	8°36'	25°38'	21° 0'	7°24'	18°59'	19°24'	20°41'	16°24'	19°29'	M28
T 29	16 58 38	15°15'30"	11°11'5	7°40'	18°46'	29°41'	8°28'	25°46'	21° 0'	7°26'	19° 0'	19°21'	20°38'	16°30'	19°25'	T 29
W30	17 2 35	16°12'45"	22°58'	9° 7'	18°57'	0°11' 1	8°21'	25°54'	20°59'	7°28'	19° 2'	19°17'	20°35'	16°37'	19°22'	W30
T 31	17 6 31	17°11'59"	4°11'56	10°32'	19°57'	0°11'22	8°13'	26°11' 2	20°59'	7°30'	19°11' 3	19°12'	20°32'	16°44'	19°M18	T 31

Delta T = 07m30s

Julian Calendar 1 May 1414 == Greg. Calendar 10 May 1414

JUNE 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	17 10 28	18°11'7"	17°11' 1	11°54'	19°14'	0°42'	8°R 6	26°11' 9	20°R58	7°33'	19°11' 4	19°R 7	20°328	16°51'	19°R15	F 1
S 2	17 14 24	19° 4'26"	29°15'	13°13'	19°19'	1° 4'	7°58'	26°17'	20°557	7°35'	19° 6'	19°32	20°25'	16°57'	19°M11	S 2
S 3	17 18 21	20° 1'38"	11°11'41	14°30'	19°22'	1°25'	7°51'	26°25'	20°57'	7°37'	19° 7'	18°57'	20°22'	17° 4'	19° 8	S 3
M 4	17 22 17	20°58'50"	24°19'	15°43'	19°R22	1°47'	7°44'	26°33'	20°56'	7°39'	19° 9'	18°54'	20°19'	17°11'	19° 5	M 4
T 5	17 26 14	21°56'02"	7°31'10	16°54'	19°20'	2°10'	7°36'	26°41'	20°55'	7°41'	19°10'	18°52'	20°16'	17°17'	19° 1	T 5
W 6	17 30 10	22°53'13"	20°14'	18° 2'	19°16'	2°33'	7°29'	26°48'	20°54'	7°43'	19°12'	18°D52	20°13'	17°24'	18°58'	W 6
T 7	17 34 7	23°50'24"	3°33'30	19° 6'	19° 9'	2°56'	7°22'	26°56'	20°53'	7°45'	19°13'	18°53'	20° 9'	17°31'	18°55'	T 7
F 8	17 38 4	24°47'35"	16°59'	20° 8'	19° 0'	3°20'	7°15'	27° 4'	20°52'	7°48'	19°14'	18°54'	20° 6'	17°38'	18°52'	F 8
S 9	17 42 0	25°44'46"	0°11'41	21° 6'	18°48'	3°44'	7° 8'	27°12'	20°51'	7°50'	19°16'	18°55'	20° 3'	17°44'	18°49'	S 9
S 10	17 45 57	26°41'56"	14°35'	22° 1'	18°35'	4° 8'	7° 1'	27°20'	20°50'	7°52'	19°17'	18°56'	20° 0'	17°51'	18°46'	S 10
M11	17 49 53	27°39'07"	28°40'	22°52'	18°18'	4°33'	6°55'	27°28'	20°49'	7°54'	19°19'	18°R57	19°57'	17°58'	18°44'	M11
T 12	17 53 50	28°36'18"	12°11'55	23°40'	18° 0'	4°58'	6°48'	27°36'	20°48'	7°56'	19°20'	18°56'	19°53'	18° 5'	18°41'	T 12
W13	17 57 46	29°33'29"	2°11'18	24°25'	17°39'	5°23'	6°41'	27°43'	20°47'	7°59'	19°22'	18°55'	19°50'	18°11'	18°38'	W13
T 14	18 1 43	0°30'41"	11°11'44	25° 5'	17°16'	5°49'	6°35'	27°51'	20°45'	8° 1'	19°23'	18°53'	19°47'	18°18'	18°36'	T 14
F 15	18 5 39	1°27'52"	26°10'	25°42'	16°51'	6°15'	6°28'	27°59'	20°44'	8° 3'	19°24'	18°51'	19°44'	18°25'	18°33'	F 15
S 16	18 9 36	2°25'04"	10°11'29	26°14'	16°24'	6°41'	6°22'	28° 7'	20°43'	8° 5'	19°26'	18°48'	19°41'	18°31'	18°31'	S 16
S 17	18 13 33	3°22'16"	24°38'	26°43'	15°55'	7° 8'	6°16'	28°15'	20°42'	8° 7'	19°27'	18°47'	19°38'	18°38'	18°28'	S 17
M18	18 17 29	4°19'28"	8°31'31	27° 7'	15°25'	7°35'	6°10'	28°23'	20°40'	8°10'	19°29'	18°46'	19°34'	18°45'	18°26'	M18
T 19	18 21 26	5°16'40"	22° 6'	27°27'	14°52'	8° 2'	6° 4'	28°30'	20°39'	8°12'	19°30'	18°D46	19°31'	18°52'	18°24'	T 19
W20	18 25 22	6°13'51"	5°11'20	27°42'	14°19'	8°29'	5°58'	28°38'	20°37'	8°14'	19°31'	18°46'	19°28'	18°58'	18°22'	W20
T 21	18 29 19	7°11'03"	18°15'	27°53'	13°44'	8°57'	5°53'	28°46'	20°36'	8°16'	19°33'	18°47'	19°25'	19° 5'	18°20'	T 21
F 22	18 33 15	8° 8'15"	0°11'50	27°59'	13° 8'	9°25'	5°47'	28°54'	20°34'	8°19'	19°34'	18°48'	19°22'	19°12'	18°18'	F 22
S 23	18 37 12	9° 5'27"	13° 9'	28°R 0	12°32'	9°54'	5°42'	29° 2'	20°33'	8°21'	19°35'	18°49'	19°19'	19°19'	18°16'	S 23
S 24	18 41 8	10° 2'38"	25°15'	27°57'	11°55'	10°23'	5°37'	29° 9'	20°31'	8°23'	19°37'	18°50'	19°15'	19°25'	18°15'	S 24
M25	18 45 5	10°59'50"	7°11'13	27°48'	11°17'	10°52'	5°32'	29°17'	20°29'	8°25'	19°38'	18°R50	19°12'	19°32'	18°13'	M25
T 26	18 49 2	11°57'01"	19° 7'	27°36'	10°40'	11°21'	5°27'	29°25'	20°28'	8°28'	19°39'	18°50'	19° 9'	19°39'	18°12'	T 26
W27	18 52 58	12°54'13"	1°11' 1	27°18'	10° 3'	11°50'	5°22'	29°33'	20°26'	8°30'	19°41'	18°50'	19° 6'	19°45'	18°10'	W27
T 28	18 56 55	13°51'25"	13° 1'	26°56'	9°26'	12°20'	5°17'	29°40'	20°24'	8°32'	19°42'	18°49'	19° 3'	19°52'	18° 9	T 28
F 29	19 0 51	14°48'37"	25° 9'	26°30'	8°49'	12°50'	5°13'	29°48'	20°22'	8°34'	19°43'	18°49'	18°59'	19°59'	18° 8	F 29
S 30	19 4 48	15°45'49"	7°11'30	26°51'	8°51'	13°21'	5°11' 9	29°11'56	20°21'	8°36'	19°11'45	18°348	18°356	20° 6	18°M 7	S 30

Delta T = 07m30s

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

JULY 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	19 8 44	16°43'01	20°7'6	25°R27	7°R40	13°A51	5°R 5	0°E 3	20°R19	8°E39	19°II46	18°R48	18°E53	20°A12	18°R 6	S 1
M 2	19 12 41	17°40'14	2°E58	24°E51	7°E 7	14°22	5°A 1	0°11	20°A17	8°41	19°47	18°E48	18°50	20°19	18°M 5	M 2
T 3	19 16 38	18°37'28	16° 8	24°12	6°35	14°53	4°57	0°18	20°15	8°43	19°49	18°48	18°47	20°26	18° 4	T 3
W 4	19 20 34	19°34'41	29°35	23°32	6° 5	15°24	4°53	0°26	20°13	8°45	19°50	18°48	18°44	20°33	18° 3	W 4
T 5	19 24 31	20°31'56	13°A17	22°50	5°37	15°56	4°50	0°34	20°11	8°47	19°51	18°48	18°40	20°39	18° 2	T 5
F 6	19 28 27	21°29'11	27°11	22° 8	5°11	16°27	4°46	0°41	20° 9	8°50	19°52	18°47	18°37	20°46	18° 2	F 6
S 7	19 32 24	22°26'27	11°K16	21°27	4°47	16°59	4°43	0°49	20° 7	8°52	19°54	18°47	18°34	20°53	18° 1	S 7
S 8	19 36 20	23°23'43	25°28	20°46	4°25	17°31	4°40	0°56	20° 5	8°54	19°55	18°47	18°31	20°59	18° 1	S 8
M 9	19 40 17	24°21'01	9°Y43	20° 7	4° 5	18° 4	4°38	1° 3	20° 3	8°56	19°56	18°46	18°28	21° 6	18° 1	M 9
T 10	19 44 13	25°18'20	23°58	19°30	3°48	18°36	4°35	1°11	20° 1	8°58	19°57	18°D46	18°25	21°13	18° 1	T 10
W11	19 48 10	26°15'39	8°B11	18°57	3°33	19° 9	4°33	1°18	19°59	9° 1	19°59	18°46	18°21	21°20	18°D 1	W11
T 12	19 52 7	27°13'00	22°20	18°28	3°20	19°42	4°30	1°26	19°57	9° 3	20° 0	18°47	18°18	21°26	18° 1	T 12
F 13	19 56 3	28°10'22	6°II21	18° 3	3°10	20°15	4°28	1°33	19°55	9° 5	20° 1	18°47	18°15	21°33	18° 1	F 13
S 14	20 0 0	29° 7'46	17°43	3° 2	2°49	20°49	4°26	1°40	19°52	9° 7	20° 2	18°48	18°12	21°40	18° 1	S 14
S 15	20 3 56	0°A 5'10	3°E55	17°28	2°57	21°22	4°25	1°48	19°50	9° 9	20° 3	18°49	18° 9	21°46	18° 1	S 15
M16	20 7 53	1° 2'35	17°24	17°19	2°54	21°56	4°23	1°55	19°48	9°11	20° 4	18°R49	18° 5	21°53	18° 2	M16
T 17	20 11 49	2° 0'01	0°A38	17°D17	2°D53	22°30	4°22	2° 2	19°46	9°13	20° 5	18°49	18° 2	22° 0	18° 2	T 17
W18	20 15 46	2°57'28	13°38	17°20	2°54	23° 4	4°21	2° 9	19°44	9°15	20° 7	18°48	17°59	22° 7	18° 3	W18
T 19	20 19 42	3°54'57	26°22	17°30	2°58	23°39	4°20	2°16	19°41	9°17	20° 8	18°46	17°56	22°13	18° 4	T 19
F 20	20 23 39	4°52'25	8°M51	17°47	3° 4	24°13	4°19	2°23	19°39	9°19	20° 9	18°44	17°53	22°20	18° 5	F 20
S 21	20 27 36	5°49'55	21° 7	18°10	3°12	24°48	4°18	2°30	19°37	9°22	20°10	18°42	17°50	22°27	18° 6	S 21
S 22	20 31 32	6°47'26	3°A12	18°40	3°23	25°23	4°18	2°37	19°34	9°24	20°11	18°39	17°46	22°34	18° 7	S 22
M23	20 35 29	7°44'58	15° 9	19°16	3°35	25°58	4°18	2°44	19°32	9°26	20°12	18°37	17°43	22°40	18° 8	M23
T 24	20 39 25	8°42'30	27° 3	20° 0	3°50	26°34	4°D18	2°51	19°30	9°28	20°13	18°36	17°40	22°47	18° 9	T 24
W25	20 43 22	9°40'03	8°M56	20°49	4° 6	27° 9	4°18	2°58	19°27	9°30	20°14	18°D35	17°37	22°54	18°10	W25
T 26	20 47 18	10°37'38	20°55	21°46	4°24	27°45	4°18	3° 5	19°25	9°32	20°15	18°36	17°34	23° 0	18°12	T 26
F 27	20 51 15	11°35'13	3°A 3	22°48	4°44	28°21	4°19	3°11	19°23	9°34	20°16	18°37	17°31	23° 7	18°13	F 27
S 28	20 55 11	12°32'50	15°25	23°57	5° 6	28°57	4°19	3°18	19°20	9°35	20°17	18°38	17°27	23°14	18°15	S 28
S 29	20 59 8	13°30'27	28° 6	25°11	5°30	29°33	4°20	3°25	19°18	9°37	20°18	18°40	17°24	23°21	18°17	S 29
M30	21 3 5	14°28'06	11°E 7	26°31	5°55	0°M 9	4°21	3°31	19°16	9°39	20°19	18°41	17°21	23°27	18°19	M30
T 31	21 7 1	15°A25'46	24°E31	27°E56	6°E22	0°M46	4°A23	3°E38	19°A13	9°E41	20°II20	18°R41	17°E18	23°A34	18°M21	T 31

Delta T = 07m30s

Julian Calendar 1 July 1414 == Greg. Calendar 10 July 1414

AUGUST 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	21 10 58	16°A23'27	8°A17	29°E26	6°E50	1°M22	4°A24	3°E44	19°R11	9°E43	20°II20	18°R40	17°E15	23°A41	18°M23	W 1
T 2	21 14 54	17°21'09	22°23	1°A 1	7°20	1°59	4°26	3°51	19°A 8	9°45	20°21	18°E37	17°11	23°48	18°25	T 2
F 3	21 18 51	18°18'52	6°K46	2°40	7°51	2°36	4°28	3°57	19° 6	9°47	20°22	18°34	17° 8	23°54	18°27	F 3
S 4	21 22 47	19°16'37	21°19	4°22	8°24	3°13	4°30	4° 4	19° 4	9°49	20°23	18°29	17° 5	24° 1	18°29	S 4
S 5	21 26 44	20°14'24	5°Y55	6° 9	8°58	3°50	4°32	4°10	19° 1	9°50	20°24	18°25	17° 2	24° 8	18°32	S 5
M 6	21 30 40	21°12'13	20°30	7°58	9°34	4°28	4°34	4°16	18°59	9°52	20°25	18°21	16°59	24°14	18°34	M 6
T 7	21 34 37	22°10'03	4°B56	9°49	10°10	5° 5	4°37	4°22	18°56	9°54	20°25	18°19	16°56	24°21	18°37	T 7
W 8	21 38 34	23° 7'55	19°10	11°43	10°48	5°43	4°39	4°28	18°54	9°56	20°26	18°D18	16°52	24°28	18°40	W 8
T 9	21 42 30	24° 5'49	3°II11	13°38	11°27	6°21	4°42	4°34	18°52	9°57	20°27	18°18	16°49	24°35	18°42	T 9
F 10	21 46 27	25° 3'45	16°57	15°35	12° 7	6°59	4°45	4°40	18°49	9°59	20°28	18°19	16°46	24°41	18°45	F 10
S 11	21 50 23	26° 1'43	0°E28	17°32	12°49	7°37	4°49	4°46	18°47	10° 1	20°28	18°20	16°43	24°48	18°48	S 11
S 12	21 54 20	26°59'42	13°46	19°30	13°31	8°15	4°52	4°52	18°45	10° 2	20°29	18°R21	16°40	24°55	18°51	S 12
M13	21 58 16	27°57'44	26°51	21°28	14°14	8°54	4°56	4°58	18°42	10° 4	20°30	18°21	16°37	25° 1	18°54	M13
T 14	22 2 13	28°55'47	9°A43	23°27	14°58	9°32	4°59	5° 4	18°40	10° 6	20°30	18°19	16°33	25° 8	18°58	T 14
W15	22 6 9	29°53'52	22°24	25°25	15°44	10°11	5° 3	5° 9	18°37	10° 7	20°31	18°15	16°30	25°15	19° 1	W15
T 16	22 10 6	0°M51'58	4°M54	27°22	16°30	10°50	5° 7	5°15	18°35	10° 9	20°32	18° 9	16°27	25°22	19° 4	T 16
F 17	22 14 3	1°50'07	17°13	29°20	17°16	11°29	5°12	5°20	18°33	10°10	20°32	18° 2	16°24	25°28	19° 8	F 17
S 18	22 17 59	2°48'17	29°23	1°M16	18° 4	12° 8	5°16	5°26	18°31	10°12	20°33	17°53	16°21	25°35	19°11	S 18
S 19	22 21 56	3°46'28	11°A24	3°12	18°53	12°47	5°21	5°31	18°28	10°13	20°33	17°45	16°17	25°42	19°15	S 19
M20	22 25 52	4°44'41	23°18	5° 6	19°42	13°26	5°25	5°36	18°26	10°15	20°34	17°37	16°14	25°48	19°19	M20
T 21	22 29 49	5°42'56	5°M10	7° 0	20°32	14° 6	5°30	5°42	18°24	10°16	20°34	17°31	16°11	25°55	19°23	T 21
W22	22 33 45	6°41'12	17° 1	8°53	21°23	14°46	5°36	5°47	18°21	10°18	20°35	17°27	16° 8	26° 2	19°27	W22
T 23	22 37 42	7°39'30	28°57	10°45	22°14	15°25	5°41	5°52	18°19	10°19	20°35	17°25	16° 5	26° 9	19°31	T 23
F 24	22 41 38	8°37'50	11°A 2	12°35	23° 6	16° 5	5°46	5°57	18°17	10°20	20°36	17°D24	16° 2	26°15	19°35	F 24
S 25	22 45 35	9°36'11	23°22	14°25	23°59	16°45	5°52	6° 2	18°15	10°22	20°36	17°25	15°58	26°22	19°39	S 25
S 26	22 49 32	10°34'34	6°E 0	16°13	24°52	17°25	5°58	6° 6	18°13	10°23	20°36	17°26	15°55	26°29	19°43	S 26
M27	22 53 28	11°32'59	19° 2	18° 0	25°46	18° 6	6° 3	6°11	18°11	10°24	20°37	17°R27	15°52	26°36	19°48	M27
T 28	22 57 25	12°31'25	2°A30	19°46	26°41	18°46	6°10	6°16	18° 8	10°26	20°37	17°26	15°49	26°42	19°52	T 28
W29	23 1 21	13°29'52	16°26	21°32	27°36	19°26	6°16	6°20	18° 6	10°27	20°37	17°22	15°46	26°49	19°57	W29
T 30	23 5 18	14°28'22	0°K48	23°16	28°31	20° 7	6°22	6°25	18° 4	10°28	20°38	17°17	15°42	26°56	20° 1	T 30
F 31	23 9 14	15°M26'53	15°K31	24°M58	29°E28	20°M48	6°A29	6°E29	18°A 2	10°E29	20°II38	17°E 9	15°E39	27°A 2	20°M 6	F 31

Delta T = 07m30s

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

SEPTEMBER 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 13 11	16 <sup>h</sup> 25'26"	0 <sup>h</sup> 29'	26 <sup>h</sup> 40'	0 <sup>h</sup> 24'	21 <sup>h</sup> 29'	6 <sup>h</sup> 35'	6 <sup>h</sup> 33'	18°R 0	10 <sup>h</sup> 30'	20 <sup>h</sup> 38'	17°R 1	15 <sup>h</sup> 36'	27 <sup>h</sup> 09'	20 <sup>h</sup> 10'	S 1
S 2	23 17 7	17°24'02"	15°32'	28°21'	1°22'	22° 9'	6°42'	6°38'	17°58'	10°32'	20°39'	16°35'	15°33'	27°16'	20°15'	S 2
M 3	23 21 4	18°22'39"	0 <sup>h</sup> 30'	0 <sup>h</sup> 1	2°19'	22°50'	6°49'	6°42'	17°56'	10°33'	20°39'	16°43'	15°30'	27°23'	20°20'	M 3
T 4	23 25 0	19°21'19"	15°14'	1°40'	3°17'	23°32'	6°56'	6°46'	17°54'	10°34'	20°39'	16°37'	15°27'	27°29'	20°25'	T 4
W 5	23 28 57	20°20'01"	29°40'	3°18'	4°16'	24°13'	7° 3'	6°50'	17°52'	10°35'	20°39'	16°33'	15°23'	27°36'	20°30'	W 5
T 6	23 32 54	21°18'45"	13 <sup>h</sup> 44'	4°54'	5°15'	24°54'	7°11'	6°54'	17°51'	10°36'	20°39'	16°31'	15°20'	27°43'	20°35'	T 6
F 7	23 36 50	22°17'32"	27°26'	6°30'	6°15'	25°36'	7°18'	6°57'	17°49'	10°37'	20°39'	16°D31	15°17'	27°49'	20°40'	F 7
S 8	23 40 47	23°16'21"	10 <sup>h</sup> 347'	8° 5'	7°15'	26°17'	7°26'	7° 1'	17°47'	10°38'	20°40'	16°R32	15°14'	27°56'	20°46'	S 8
S 9	23 44 43	24°15'12"	23°50'	9°39'	8°15'	26°59'	7°34'	7° 5'	17°45'	10°38'	20°40'	16°32'	15°11'	28° 3'	20°51'	S 9
M10	23 48 40	25°14'06"	6 <sup>h</sup> 37'	11°12'	9°16'	27°41'	7°42'	7° 8'	17°43'	10°39'	20°40'	16°30'	15° 8'	28°10'	20°56'	M10
T 11	23 52 36	26°13'02"	19°12'	12°45'	10°17'	28°23'	7°50'	7°12'	17°42'	10°40'	20°40'	16°25'	15° 4'	28°16'	21° 2'	T 11
W12	23 56 33	27°12'00"	1 <sup>h</sup> 36'	14°16'	11°19'	29° 5'	7°58'	7°15'	17°40'	10°41'	20°R40	16°18'	15° 1'	28°23'	21° 7'	W12
T 13	0 0 29	28°11'00"	13°52'	15°46'	12°21'	29°47'	8° 6'	7°18'	17°38'	10°42'	20°40'	16° 8'	14°58'	28°30'	21°13'	T 13
F 14	0 4 26	29°10'02"	26° 0'	17°16'	13°23'	0 <sup>h</sup> 29'	8°14'	7°21'	17°37'	10°42'	20°40'	15°56'	14°55'	28°37'	21°18'	F 14
S 15	0 8 23	0 <sup>h</sup> 9'06"	8 <sup>h</sup> 1	18°45'	14°25'	1°11'	8°23'	7°24'	17°35'	10°43'	20°40'	15°43'	14°52'	28°43'	21°24'	S 15
S 16	0 12 19	1° 8'12"	19°57'	20°12'	15°28'	1°54'	8°32'	7°27'	17°34'	10°44'	20°40'	15°29'	14°48'	28°50'	21°30'	S 16
M17	0 16 16	2° 7'21"	1 <sup>h</sup> 49'	21°39'	16°31'	2°36'	8°41'	7°30'	17°32'	10°45'	20°40'	15°16'	14°45'	28°57'	21°36'	M17
T 18	0 20 12	3° 6'31"	13°40'	23° 5'	17°35'	3°19'	8°49'	7°32'	17°31'	10°45'	20°39'	15° 5'	14°42'	29° 3'	21°41'	T 18
W19	0 24 9	4° 5'43"	25°30'	24°30'	18°39'	4° 2'	8°59'	7°35'	17°29'	10°46'	20°39'	14°57'	14°39'	29°10'	21°47'	W19
T 20	0 28 5	5° 4'57"	7 <sup>h</sup> 25'	25°54'	19°43'	4°44'	9° 8'	7°38'	17°28'	10°46'	20°39'	14°51'	14°36'	29°17'	21°53'	T 20
F 21	0 32 2	6° 4'13"	19°27'	27°17'	20°47'	5°27'	9°17'	7°40'	17°26'	10°47'	20°39'	14°49'	14°33'	29°24'	21°59'	F 21
S 22	0 35 58	7° 3'31"	1 <sup>h</sup> 343'	28°39'	21°52'	6°10'	9°26'	7°42'	17°25'	10°47'	20°39'	14°48'	14°29'	29°30'	22° 6'	S 22
S 23	0 39 55	8° 2'51"	14°16'	29°59'	22°57'	6°53'	9°36'	7°44'	17°24'	10°48'	20°38'	14°48'	14°26'	29°37'	22°12'	S 23
M24	0 43 52	9° 2'12"	27°12'	1 <sup>h</sup> 19'	24° 2'	7°36'	9°46'	7°46'	17°23'	10°48'	20°38'	14°47'	14°23'	29°44'	22°18'	M24
T 25	0 47 48	10° 1'36"	10 <sup>h</sup> 35'	2°37'	25° 8'	8°20'	9°55'	7°48'	17°22'	10°48'	20°38'	14°45'	14°20'	29°50'	22°24'	T 25
W26	0 51 45	11° 1'01"	24°28'	3°55'	26°14'	9° 3'	10° 5'	7°50'	17°20'	10°49'	20°38'	14°41'	14°17'	29°57'	22°30'	W26
T 27	0 55 41	12° 0'27"	8 <sup>h</sup> 52'	5°11'	27°20'	9°46'	10°15'	7°52'	17°19'	10°49'	20°37'	14°34'	14°14'	0 <sup>h</sup> 4	22°37'	T 27
F 28	0 59 38	12°59'56"	23°41'	6°25'	28°26'	10°30'	10°25'	7°54'	17°18'	10°49'	20°37'	14°25'	14°10'	0°11'	22°43'	F 28
S 29	1 3 34	13°59'27"	8 <sup>h</sup> 51'	7°38'	29°32'	11°14'	10°35'	7°55'	17°17'	10°50'	20°37'	14°14'	14° 7'	0°17'	22°50'	S 29
S 30	1 7 31	14 <sup>h</sup> 58'59"	24 <sup>h</sup> 10'	8 <sup>h</sup> 49'	0 <sup>h</sup> 39'	11 <sup>h</sup> 57'	10 <sup>h</sup> 46'	7 <sup>h</sup> 56'	17 <sup>h</sup> 16'	10 <sup>h</sup> 50'	20 <sup>h</sup> 36'	14 <sup>h</sup> 3	14 <sup>h</sup> 3	0 <sup>h</sup> 24	22 <sup>h</sup> 56	S 30

Delta T = 07m29s

Julian Calendar 1 Sept. 1414 == Greg. Calendar 10 Sept. 1414

OCTOBER 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	1 11 27	15 <sup>h</sup> 58'34"	9 <sup>h</sup> 26'	9 <sup>h</sup> 58'	1 <sup>h</sup> 46'	12 <sup>h</sup> 41'	10 <sup>h</sup> 56'	7 <sup>h</sup> 58'	17°R15	10 <sup>h</sup> 50'	20°R36	13°R52	14 <sup>h</sup> 3	0 <sup>h</sup> 31	23 <sup>h</sup> 3	M 1
T 2	1 15 24	16°58'11"	24°30'	11° 6'	2°53'	13°25'	11° 7'	7°59'	17°15'	10°50'	20 <sup>h</sup> 35'	13°38'	13°58'	0°37'	23° 9'	T 2
W 3	1 19 21	17°57'50"	9 <sup>h</sup> 12'	12°11'	4° 1'	14° 9'	11°17'	8° 0'	17°14'	10°50'	20°35'	13°38'	13°54'	0°44'	23°16'	W 3
T 4	1 23 17	18°57'32"	23°28'	13°14'	5° 8'	14°53'	11°28'	8° 1'	17°13'	10°50'	20°35'	13°35'	13°51'	0°51'	23°23'	T 4
F 5	1 27 14	19°57'16"	7 <sup>h</sup> 36'	14°14'	6°16'	15°37'	11°39'	8° 2'	17°12'	10°50'	20°34'	13°34'	13°48'	0°58'	23°29'	F 5
S 6	1 31 10	20°57'02"	20°39'	15°12'	7°24'	16°21'	11°49'	8° 3'	17°12'	10°R50	20°34'	13°34'	13°45'	1° 4'	23°36'	S 6
S 7	1 35 7	21°56'51"	3 <sup>h</sup> 38'	16° 6'	8°32'	17° 5'	12° 0'	8° 3'	17°11'	10°50'	20°33'	13°34'	13°42'	1°11'	23°43'	S 7
M 8	1 39 3	22°56'41"	16°18'	16°57'	9°41'	17°49'	12°11'	8° 4'	17°10'	10°50'	20°32'	13°32'	13°39'	1°18'	23°50'	M 8
T 9	1 43 0	23°56'34"	28°42'	17°44'	10°49'	18°34'	12°22'	8° 4'	17°10'	10°50'	20°32'	13°28'	13°35'	1°24'	23°56'	T 9
W10	1 46 56	24°56'29"	10 <sup>h</sup> 56'	18°26'	11°58'	19°18'	12°34'	8° 4'	17° 9'	10°50'	20°31'	13°20'	13°32'	1°31'	24° 3'	W10
T 11	1 50 53	25°56'27"	23° 1'	19° 4'	13° 7'	20° 3'	12°45'	8° 5'	17° 9'	10°50'	20°31'	13°10'	13°29'	1°38'	24°10'	T 11
F 12	1 54 50	26°56'26"	5 <sup>h</sup> 0	19°36'	14°16'	20°47'	12°56'	8°R 5	17° 9'	10°50'	20°30'	12°58'	13°26'	1°45'	24°17'	F 12
S 13	1 58 46	27°56'27"	16°55'	20° 3'	15°26'	21°32'	13° 8'	8° 5'	17° 8'	10°50'	20°29'	12°44'	13°23'	1°51'	24°24'	S 13
S 14	2 2 43	28°56'31"	28°47'	20°23'	16°35'	22°17'	13°19'	8° 4'	17° 8'	10°49'	20°29'	12°29'	13°19'	1°58'	24°31'	S 14
M15	2 6 39	29°56'36"	10 <sup>h</sup> 39'	20°36'	17°45'	23° 1'	13°31'	8° 4'	17° 8'	10°49'	20°28'	12°16'	13°16'	2° 5'	24°38'	M15
T 16	2 10 36	0 <sup>h</sup> 56'43"	22°30'	20°R42	18°55'	23°46'	13°43'	8° 4'	17° 8'	10°49'	20°27'	12° 5'	13°13'	2°11'	24°46'	T 16
W17	2 14 32	1°56'52"	4 <sup>h</sup> 23'	20°39'	20° 5'	24°31'	13°55'	8° 3'	17° 8'	10°48'	20°27'	11°56'	13°10'	2°18'	24°53'	W17
T 18	2 18 29	2°57'03"	16°21'	20°27'	21°15'	25°16'	14° 6'	8° 3'	17° 7'	10°48'	20°26'	11°50'	13° 7'	2°25'	25° 0'	T 18
F 19	2 22 25	3°57'15"	28°26'	20° 6'	22°25'	26° 1'	14°18'	8° 2'	17°D 7	10°47'	20°25'	11°47'	13° 4'	2°32'	25° 7'	F 19
S 20	2 26 22	4°57'29"	10 <sup>h</sup> 342'	19°35'	23°35'	26°47'	14°30'	8° 1'	17° 7'	10°47'	20°24'	11°D46	13° 0'	2°38'	25°14'	S 20
S 21	2 30 19	5°57'45"	23°14'	18°54'	24°46'	27°32'	14°42'	8° 0'	17° 8'	10°46'	20°24'	11°47'	12°57'	2°45'	25°21'	S 21
M22	2 34 15	6°58'02"	6 <sup>h</sup> 5	18° 4'	25°57'	28°17'	14°55'	7°59'	17° 8'	10°46'	20°23'	11°R47	12°54'	2°52'	25°29'	M22
T 23	2 38 12	7°58'20"	19°20'	17° 5'	27° 7'	29° 2'	15° 7'	7°58'	17° 8'	10°45'	20°22'	11°46'	12°51'	2°58'	25°36'	T 23
W24	2 42 8	8°58'40"	3 <sup>h</sup> 3	15°57'	28°18'	29°48'	15°19'	7°57'	17° 8'	10°45'	20°21'	11°44'	12°48'	3° 5'	25°43'	W24
T 25	2 46 5	9°59'02"	17°15'	14°44'	29°29'	0 <sup>h</sup> 33'	15°31'	7°55'	17° 8'	10°44'	20°20'	11°39'	12°45'	3°12'	25°51'	T 25
F 26	2 50 1	10°59'24"	1 <sup>h</sup> 55'	13°25'	0 <sup>h</sup> 40'	1°19'	15°44'	7°54'	17° 9'	10°43'	20°19'	11°32'	12°41'	3°19'	25°58'	F 26
S 27	2 53 58	11°59'48"	16°57'	12° 5'	1°52'	2° 4'	15°56'	7°52'	17° 9'	10°43'	20°19'	11°23'	12°38'	3°25'	26° 5'	S 27
S 28	2 57 54	13° 0'14"	2 <sup>h</sup> 14'	10°45'	3° 3'	2°50'	16° 9'	7°50'	17°10'	10°42'	20°18'	11°14'	12°35'	3°32'	26°13'	S 28
M29	3 1 51	14° 0'42"	17°34'	9°29'	4°15'	3°35'	16°21'	7°49'	17°10'	10°41'	20°17'	11° 5'	12°32'	3°39'	26°20'	M29
T 30	3 5 47	15° 1'11"	2 <sup>h</sup> 46'	8°17'	5°26'	4°21'	16°34'	7°47'	17°11'	10°41'	20°16'	10°58'	12°29'	3°45'	26°27'	T 30
W31	3 9 44	16 <sup>h</sup> 1'42"	17 <sup>h</sup> 39'	7 <sup>h</sup> 14'	6 <sup>h</sup> 38'	5 <sup>h</sup> 3	16 <sup>h</sup> 47'	7 <sup>h</sup> 45'	17 <sup>h</sup> 11'	10 <sup>h</sup> 40'	20 <sup>h</sup> 15'	10 <sup>h</sup> 54'	12 <sup>h</sup> 25'	3 <sup>h</sup> 52'	26 <sup>h</sup> 35'	W31

Delta T = 07m29s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1414  
geocentric

NOVEMBER 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	3 13 41	17♈ 2'14	2♈ 8	6°R20	7♈50	5♈53	17♈ 0	7°R43	17♈12	10°R39	20°R14	10°R51	12♈22	3♈59	26♈42	T 1
F 2	3 17 37	18° 2'49	16° 8	5♈37	9° 2	6°38	17°12	7♈40	17°13	10♈38	20♈13	10°D51	12°19	4° 6	26°50	F 2
S 3	3 21 34	19° 3'25	29°39	5° 6	10°14	7°24	17°25	7°38	17°13	10°37	20°12	10♈52	12°16	4°12	26°57	S 3
S 4	3 25 30	20° 4'03	12♈44	4°46	11°26	8°10	17°38	7°35	17°14	10°36	20°11	10°53	12°13	4°19	27° 5	S 4
M 5	3 29 27	21° 4'42	25°26	4°D37	12°38	8°56	17°51	7°33	17°15	10°35	20°10	10°R53	12°10	4°26	27°12	M 5
T 6	3 33 23	22° 5'23	7♈50	4°40	13°50	9°42	18° 4	7°30	17°16	10°34	20° 9	10°52	12° 6	4°32	27°19	T 6
W 7	3 37 20	23° 6'06	20° 0	4°54	15° 3	10°28	18°17	7°28	17°17	10°33	20° 8	10°48	12° 3	4°39	27°27	W 7
T 8	3 41 16	24° 6'51	2♈ 0	5°16	16°15	11°15	18°30	7°25	17°18	10°32	20° 7	10°42	12° 0	4°46	27°34	T 8
F 9	3 45 13	25° 7'37	13°54	5°48	17°28	12° 1	18°43	7°22	17°19	10°31	20° 6	10°35	11°57	4°53	27°42	F 9
S 10	3 49 10	26° 8'25	25°45	6°27	18°41	12°47	18°57	7°19	17°20	10°30	20° 5	10°26	11°54	4°59	27°49	S 10
S 11	3 53 6	27° 9'14	7♈36	7°14	19°54	13°33	19°10	7°16	17°21	10°29	20° 4	10°17	11°51	5° 6	27°57	S 11
M12	3 57 3	28°10'04	19°29	8° 6	21° 6	14°20	19°23	7°12	17°22	10°28	20° 3	10° 9	11°47	5°13	28° 4	M12
T 13	4 0 59	29°10'56	1♈25	9° 4	22°19	15° 6	19°37	7° 9	17°24	10°27	20° 1	10° 2	11°44	5°19	28°12	T 13
W14	4 4 56	0♈11'49	13°26	10° 7	23°32	15°52	19°50	7° 6	17°25	10°25	20° 0	9°56	11°41	5°26	28°19	W14
T 15	4 8 52	1°12'43	25°33	11°14	24°45	16°39	20° 3	7° 2	17°26	10°24	19°59	9°53	11°38	5°33	28°27	T 15
F 16	4 12 49	2°13'38	7♈49	12°24	25°58	17°25	20°17	6°59	17°28	10°23	19°58	9°D52	11°35	5°40	28°34	F 16
S 17	4 16 46	3°14'34	20°14	13°37	27°12	18°12	20°30	6°55	17°29	10°22	19°57	9°53	11°31	5°46	28°42	S 17
S 18	4 20 42	4°15'31	2♈53	14°53	28°25	18°58	20°44	6°51	17°31	10°20	19°56	9°54	11°28	5°53	28°49	S 18
M19	4 24 39	5°16'29	15°48	16°11	29°38	19°45	20°57	6°48	17°32	10°19	19°55	9°56	11°25	6° 0	28°57	M19
T 20	4 28 35	6°17'27	29° 2	17°31	0♈52	20°31	21°11	6°44	17°34	10°18	19°54	9°57	11°22	6° 6	29° 4	T 20
W21	4 32 32	7°18'26	12♈37	18°53	2° 5	21°18	21°24	6°40	17°35	10°16	19°52	9°R57	11°19	6°13	29°11	W21
T 22	4 36 28	8°19'26	26°36	20°16	3°19	22° 5	21°38	6°36	17°37	10°15	19°51	9°56	11°16	6°20	29°19	T 22
F 23	4 40 25	9°20'26	10°V57	21°41	4°32	22°51	21°52	6°32	17°39	10°14	19°50	9°53	11°12	6°27	29°26	F 23
S 24	4 44 21	10°21'27	25°39	23° 6	5°46	23°38	22° 5	6°27	17°40	10°12	19°49	9°49	11° 9	6°33	29°34	S 24
S 25	4 48 18	11°22'28	10♈35	24°32	6°59	24°25	22°19	6°23	17°42	10°11	19°48	9°45	11° 6	6°40	29°41	S 25
M26	4 52 15	12°23'30	25°39	26° 0	8°13	25°11	22°33	6°19	17°44	10° 9	19°47	9°41	11° 3	6°47	29°48	M26
T 27	4 56 11	13°24'33	10♈40	27°27	9°27	25°58	22°46	6°15	17°46	10° 8	19°45	9°38	11° 0	6°53	29°56	T 27
W28	5 0 8	14°25'37	25°30	28°56	10°41	26°45	23° 0	6°10	17°48	10° 6	19°44	9°36	10°57	7° 0	0♈ 3	W28
T 29	5 4 4	15°26'41	10♈ 0	0♈25	11°54	27°32	23°14	6° 6	17°50	10° 5	19°43	9°D35	10°53	7° 7	0°10	T 29
F 30	5 8 1	16♈27'46	24♈ 7	1♈54	13♈ 8	28♈19	23♈27	6♈ 1	17♈52	10♈ 3	19♈42	9♈36	10♈50	7♈14	0♈17	F 30

Delta T = 07m29s

Julian Calendar 1 Nov. 1414 == Greg. Calendar 10 Nov. 1414

DECEMBER 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 11 57	17♈28'52	7♈47	3♈24	14♈22	29♈ 5	23♈41	5°R57	17♈54	10°R 2	19°R41	9♈37	10♈47	7♈20	0♈25	S 1
S 2	5 15 54	18°29'59	21° 0	4°54	15°36	29°52	23°55	5♈52	17°56	10♈ 0	19♈39	9°39	10°44	7°27	0°32	S 2
M 3	5 19 50	19°31'06	3♈49	6°25	16°50	0♈39	24° 9	5°47	17°58	9°59	19°38	9°40	10°41	7°34	0°39	M 3
T 4	5 23 47	20°32'14	16°18	7°56	18° 4	1°26	24°23	5°43	18° 1	9°57	19°37	9°R41	10°37	7°40	0°46	T 4
W 5	5 27 44	21°33'23	28°30	9°27	19°18	2°13	24°36	5°38	18° 3	9°56	19°36	9°41	10°34	7°47	0°53	W 5
T 6	5 31 40	22°34'33	10♈31	10°59	20°33	3° 0	24°50	5°33	18° 5	9°54	19°35	9°40	10°31	7°54	1° 1	T 6
F 7	5 35 37	23°35'43	22°24	12°30	21°47	3°47	25° 4	5°29	18° 7	9°52	19°34	9°38	10°28	8° 1	1° 8	F 7
S 8	5 39 33	24°36'54	4♈15	14° 2	23° 1	4°34	25°18	5°24	18°10	9°51	19°32	9°36	10°25	8° 7	1°15	S 8
S 9	5 43 30	25°38'05	16° 6	15°35	24°15	5°21	25°32	5°19	18°12	9°49	19°31	9°33	10°22	8°14	1°22	S 9
M10	5 47 26	26°39'17	28° 2	17° 7	25°29	6° 8	25°46	5°14	18°15	9°48	19°30	9°31	10°18	8°21	1°29	M10
T 11	5 51 23	27°40'29	10♈ 4	18°40	26°44	6°55	25°59	5° 9	18°17	9°46	19°29	9°29	10°15	8°27	1°36	T 11
W12	5 55 19	28°41'42	22°15	20°13	27°58	7°42	26°13	5° 4	18°19	9°44	19°28	9°28	10°12	8°34	1°43	W12
T 13	5 59 16	29°42'54	4♈36	21°47	29°12	8°29	26°27	4°59	18°22	9°43	19°26	9°D28	10° 9	8°41	1°49	T 13
F 14	6 3 13	0♈44'07	17° 8	23°20	0♈27	9°16	26°41	4°54	18°25	9°41	19°25	9°28	10° 6	8°47	1°56	F 14
S 15	6 7 9	1°45'20	29°52	24°54	1°41	10° 3	26°55	4°49	18°27	9°39	19°24	9°28	10° 3	8°54	2° 3	S 15
S 16	6 11 6	2°46'33	12♈50	26°28	2°56	10°50	27° 9	4°44	18°30	9°38	19°23	9°29	9°59	9° 1	2°10	S 16
M17	6 15 2	3°47'45	26° 0	28° 3	4°10	11°37	27°22	4°39	18°33	9°36	19°22	9°30	9°56	9° 8	2°17	M17
T 18	6 18 59	4°48'57	9♈25	29°38	5°25	12°24	27°36	4°34	18°35	9°34	19°21	9°30	9°53	9°14	2°23	T 18
W19	6 22 55	5°50'09	23° 5	1♈13	6°39	13°11	27°50	4°29	18°38	9°32	19°20	9°31	9°50	9°21	2°30	W19
T 20	6 26 52	6°51'20	6°V59	2°49	7°54	13°58	28° 4	4°24	18°41	9°31	19°18	9°R31	9°47	9°28	2°36	T 20
F 21	6 30 48	7°52'31	21° 7	4°25	9° 8	14°45	28°18	4°19	18°44	9°29	19°17	9°31	9°43	9°34	2°43	F 21
S 22	6 34 45	8°53'42	5♈27	6° 2	10°23	15°32	28°31	4°14	18°46	9°27	19°16	9°30	9°40	9°41	2°49	S 22
S 23	6 38 42	9°54'52	19°57	7°38	11°37	16°20	28°45	4° 9	18°49	9°26	19°15	9°D30	9°37	9°48	2°56	S 23
M24	6 42 38	10°56'01	4♈32	9°16	12°52	17° 7	28°59	4° 5	18°52	9°24	19°14	9°31	9°34	9°55	3° 2	M24
T 25	6 46 35	11°57'10	19° 7	10°54	14° 6	17°54	29°12	4° 0	18°55	9°22	19°13	9°31	9°31	10° 1	3° 9	T 25
W26	6 50 31	12°58'19	3♈35	12°32	15°21	18°41	29°26	3°55	18°58	9°21	19°12	9°R31	9°28	10° 8	3°15	W26
T 27	6 54 28	13°59'27	17°51	14°10	16°35	19°28	29°40	3°50	19° 1	9°19	19°11	9°31	9°24	10°15	3°21	T 27
F 28	6 58 24	15° 0'35	1♈50	15°50	17°50	20°15	29°53	3°45	19° 4	9°17	19°10	9°31	9°21	10°21	3°27	F 28
S 29	7 2 21	16° 1'42	15°28	17°29	19° 5	21° 2	0♈ 7	3°40	19° 7	9°15	19° 9	9°30	9°18	10°28	3°34	S 29
S 30	7 6 18	17° 2'49	28°44	19° 9	20°19	21°49	0°21	3°35	19°10	9°14	19° 8	9°29	9°15	10°35	3°40	S 30
M31	7 10 14	18♈ 3'55	11♈38	20♈50	21♈34	22♈36	0♈34	3♈31	19♈13	9♈12	19♈ 7	9♈28	9♈12	10♈41	3♈46	M31

Delta T = 07m29s

Julian Calendar