



Astrodienst Ephemeris Tables for the year 1510

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 1510
geocentric

JANUARY 1510 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 18 4	20°14'5	21°13'37	4°18'18	25°39'39	20°57'57	4°44'44	8°8'8	2°20'20	6°4'4	17°47'47	2°57'57	1°41'41	6°18'18	8°29'29	T 1
W 2	7 22 1	21°2'51	3°47'47	3°51'51	26°52'52	21°24'24	4°58'58	8°9'9	2°21'21	6°6'6	17°49'49	2°53'53	1°37'37	6°25'25	8°33'33	W 2
T 3	7 25 57	22°3'56	16°11'11	3°33'33	28°5'28	21°52'52	5°12'12	8°9'9	2°23'23	6°8'8	17°51'51	2°51'51	1°34'34	6°32'32	8°38'38	T 3
F 4	7 29 54	23°5'02	28°53'53	3°24'24	29°18'18	22°19'19	5°25'25	8°10'10	2°24'24	6°11'11	17°53'53	2°51'51	1°31'31	6°38'38	8°42'42	F 4
S 5	7 33 50	24°6'07	11°57'57	3°D24	0°31'31	22°46'46	5°39'39	8°10'10	2°26'26	6°13'13	17°55'55	2°52'52	1°28'28	6°45'45	8°46'46	S 5
S 6	7 37 47	25°7'11	25°28'28	3°32'32	1°43'43	23°13'13	5°52'52	8°10'10	2°28'28	6°15'15	17°56'56	2°53'53	1°25'25	6°52'52	8°51'51	S 6
M 7	7 41 43	26°8'15	9°27'27	3°47'47	2°56'56	23°39'39	6°6'6	8°10'10	2°30'30	6°17'17	17°58'58	2°53'53	1°22'22	6°59'59	8°55'55	M 7
T 8	7 45 40	27°9'19	23°54'54	4°9'9	4°9'9	24°5'24	6°19'19	8°R10	2°31'31	6°20'20	18°0'0	2°51'51	1°18'18	7°5'5	8°59'59	T 8
W 9	7 49 36	28°10'22	8°47'47	4°37'37	5°22'22	24°31'31	6°33'33	8°10'10	2°33'33	6°22'22	18°2'2	2°47'47	1°15'15	7°12'12	9°2'2	W 9
T 10	7 53 33	29°11'24	23°58'58	5°11'11	6°34'34	24°57'57	6°46'46	8°10'10	2°35'35	6°24'24	18°4'4	2°40'40	1°12'12	7°19'19	9°6'6	T 10
F 11	7 57 30	0°12'25	9°18'18	5°49'49	7°47'47	25°23'23	6°59'59	8°10'10	2°37'37	6°26'26	18°6'6	2°32'32	1°9'9	7°25'25	9°10'10	F 11
S 12	8 1 26	1°13'25	24°35'35	6°33'33	8°59'59	25°48'48	7°13'13	8°9'9	2°39'39	6°29'29	18°7'7	2°22'22	1°6'6	7°32'32	9°13'13	S 12
S 13	8 5 23	2°14'24	9°38'38	7°20'20	10°11'11	26°13'13	7°26'26	8°9'9	2°41'41	6°31'31	18°9'9	2°13'13	1°3'3	7°39'39	9°17'17	S 13
M14	8 9 19	3°15'22	24°18'18	8°11'11	11°24'24	26°38'38	7°39'39	8°8'8	2°43'43	6°33'33	18°11'11	2°6'6	0°59'59	7°45'45	9°20'20	M14
T 15	8 13 16	4°16'19	8°31'31	9°6'6	12°36'36	27°3'27	7°52'52	8°7'7	2°45'45	6°36'36	18°13'13	2°0'0	0°56'56	7°52'52	9°23'23	T 15
W16	8 17 12	5°17'14	22°14'14	10°4'4	13°48'48	27°27'27	8°6'6	8°7'7	2°48'48	6°38'38	18°14'14	1°58'58	0°53'53	7°59'59	9°27'27	W16
T 17	8 21 9	6°18'07	5°30'30	11°5'5	15°0'0	27°51'51	8°19'19	8°6'6	2°50'50	6°40'40	18°16'16	1°D57	0°50'50	8°6'6	9°30'30	T 17
F 18	8 25 5	7°19'00	18°21'21	12°8'8	16°12'12	28°15'15	8°32'32	8°5'5	2°52'52	6°42'42	18°18'18	1°57'57	0°47'47	8°12'12	9°33'33	F 18
S 19	8 29 2	8°19'51	0°12'52	13°14'14	17°24'24	28°38'38	8°45'45	8°4'4	2°54'54	6°45'45	18°19'19	1°R58	0°43'43	8°19'19	9°35'35	S 19
S 20	8 32 59	9°20'40	13°7'7	14°22'22	18°35'35	29°1'29	8°58'58	8°2'2	2°57'57	6°47'47	18°21'21	1°57'57	0°40'40	8°26'26	9°38'38	S 20
M21	8 36 55	10°21'28	25°12'12	15°32'32	19°47'47	29°24'24	9°11'11	8°1'1	2°59'59	6°49'49	18°22'22	1°54'54	0°37'37	8°32'32	9°41'41	M21
T 22	8 40 52	11°22'15	7°9'9	16°44'44	20°59'59	29°47'47	9°23'23	7°59'59	3°1'1	6°52'52	18°24'24	1°49'49	0°34'34	8°39'39	9°43'43	T 22
W23	8 44 48	12°23'00	19°2'2	17°57'57	22°10'10	0°11'11	9°36'36	7°58'58	3°4'4	6°54'54	18°25'25	1°41'41	0°31'31	8°46'46	9°45'45	W23
T 24	8 48 45	13°23'43	0°12'54	19°13'13	23°21'21	0°31'31	9°49'49	7°56'56	3°6'6	6°56'56	18°27'27	1°30'30	0°28'28	8°53'53	9°48'48	T 24
F 25	8 52 41	14°24'26	12°45'45	20°29'29	24°32'32	0°52'52	10°2'2	7°55'55	3°9'9	6°58'58	18°28'28	1°17'17	0°24'24	8°59'59	9°50'50	F 25
S 26	8 56 38	15°25'06	24°39'39	21°48'48	25°44'44	1°14'14	10°14'14	7°53'53	3°11'11	7°1'1	18°30'30	1°2'2	0°21'21	9°6'6	9°52'52	S 26
S 27	9 0 34	16°25'46	6°13'35	23°7'7	26°54'54	1°35'35	10°27'27	7°51'51	3°14'14	7°3'3	18°31'31	0°48'48	0°18'18	9°13'13	9°54'54	S 27
M28	9 4 31	17°26'24	18°36'36	24°28'28	28°5'5	1°55'55	10°39'39	7°49'49	3°16'16	7°5'5	18°33'33	0°35'35	0°15'15	9°19'19	9°56'56	M28
T 29	9 8 28	18°27'00	0°12'54	25°51'51	29°16'16	2°15'15	10°52'52	7°47'47	3°19'19	7°7'7	18°34'34	0°25'25	0°12'12	9°26'26	9°57'57	T 29
W30	9 12 24	19°27'36	12°57'57	27°14'14	0°12'57	2°35'35	11°4'4	7°44'44	3°22'22	7°10'10	18°35'35	0°17'17	0°9'9	9°33'33	9°59'59	W30
T 31	9 16 21	20°28'10	25°12'53	28°39'39	1°12'57	2°55'55	11°16'16	7°42'42	3°24'24	7°12'12	18°37'37	0°12'12	0°5'5	9°40'40	10°0'0	T 31

Delta T = 269.66 sec Julian Calendar 1 Jan. 1510 == Greg. Calendar 11 Jan. 1510

FEBRUARY 1510 JC

00:00 UT

Day	Sid.t	☉	☾	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	9 20 17	21°28'43	8°11'4	0°4'4	2°47'47	3°11'14	11°29'29	7°40'40	3°27'27	7°14'14	18°38'38	0°R10	0°2'2	9°46'46	10°11'11	F 1
S 2	9 24 14	22°29'14	21°2'2	1°31'31	3°58'58	3°33'33	11°41'41	7°43'37	3°30'30	7°16'16	18°39'39	0°2'9	29°15'59	9°53'53	10°3'3	S 2
S 3	9 28 10	23°29'45	4°12'24	2°59'59	5°8'8	3°51'51	11°53'53	7°34'34	3°33'33	7°18'18	18°40'40	0°9'9	29°56'56	10°0'0	10°4'4	S 3
M 4	9 32 7	24°30'14	18°11'11	4°28'28	6°18'18	4°9'9	12°5'5	7°32'32	3°36'36	7°21'21	18°42'42	0°8'8	29°53'53	10°6'6	10°5'5	M 4
T 5	9 36 3	25°30'42	2°32'24	5°58'58	7°28'28	4°26'26	12°17'17	7°29'29	3°38'38	7°23'23	18°43'43	0°6'6	29°49'49	10°13'13	10°6'6	T 5
W 6	9 40 0	26°31'08	17°4'4	7°29'29	8°37'37	4°44'44	12°29'29	7°26'26	3°41'41	7°25'25	18°44'44	0°0'0	29°46'46	10°20'20	10°7'7	W 6
T 7	9 43 57	27°31'33	2°1'2	9°1'1	9°47'47	5°0'0	12°41'41	7°23'23	3°44'44	7°27'27	18°45'45	29°11'52	29°43'43	10°27'27	10°7'7	T 7
F 8	9 47 53	28°31'56	17°20'20	10°34'34	10°56'56	5°16'16	12°52'52	7°20'20	3°47'47	7°29'29	18°46'46	29°42'42	29°40'40	10°33'33	10°8'8	F 8
S 9	9 51 50	29°32'17	2°13'37	12°8'8	12°5'5	5°32'32	13°4'4	7°17'17	3°50'50	7°32'32	18°47'47	29°30'30	29°37'37	10°40'40	10°8'8	S 9
S 10	9 55 46	0°13'37	17°46'46	13°43'43	13°14'14	5°47'47	13°16'16	7°14'14	3°53'53	7°34'34	18°48'48	29°18'18	29°34'34	10°47'47	10°9'9	S 10
M11	9 59 43	1°32'55	2°13'36	15°19'19	14°23'23	6°2'2	13°27'27	7°10'10	3°56'56	7°36'36	18°49'49	29°8'8	29°30'30	10°53'53	10°9'9	M11
T 12	10 3 39	2°33'11	16°59'59	16°56'56	15°32'32	6°16'16	13°38'38	7°7'7	3°59'59	7°38'38	18°50'50	29°1'1	29°27'27	11°0'0	10°R 9	T 12
W13	10 7 36	3°33'24	0°8'53	18°34'34	16°41'41	6°30'30	13°50'50	7°4'4	4°2'2	7°40'40	18°51'51	28°56'56	29°24'24	11°7'7	10°9'9	W13
T 14	10 11 32	4°33'36	14°17'17	20°13'13	17°49'49	6°44'44	14°1'1	7°0'0	4°5'5	7°42'42	18°52'52	28°54'54	29°21'21	11°14'14	10°9'9	T 14
F 15	10 15 29	5°33'46	27°13'13	21°53'53	18°57'57	6°56'56	14°12'12	6°57'57	4°8'8	7°44'44	18°53'53	28°D54	29°18'18	11°20'20	10°9'9	F 15
S 16	10 19 25	6°33'54	9°11'46	23°34'34	20°5'5	7°9'9	14°23'23	6°53'53	4°11'11	7°46'46	18°54'54	28°R54	29°15'15	11°27'27	10°8'8	S 16
S 17	10 23 22	7°33'59	22°2'2	25°16'16	21°13'13	7°20'20	14°34'34	6°49'49	4°15'15	7°48'48	18°55'55	28°53'53	29°11'11	11°34'34	10°8'8	S 17
M18	10 27 19	8°34'02	4°28'4	27°0'0	22°21'21	7°31'31	14°45'45	6°45'45	4°18'18	7°50'50	18°56'56	28°50'50	29°8'8	11°40'40	10°7'7	M18
T 19	10 31 15	9°34'03	15°58'58	28°44'44	23°28'28	7°42'42	14°56'56	6°42'42	4°21'21	7°52'52	18°56'56	28°45'45	29°5'5	11°47'47	10°6'6	T 19
W20	10 35 12	10°34'02	27°49'49	0°13'30	24°36'36	7°52'52	15°6'6	6°38'38	4°24'24	7°54'54	18°57'57	28°37'37	29°2'2	11°54'54	10°6'6	W20
T 21	10 39 8	11°33'59	9°13'59	2°16'16	25°43'43	8°2'2	15°17'17	6°34'34	4°27'27	7°56'56	18°57'57	28°27'27	28°59'59	12°1'1	10°5'5	T 21
F 22	10 43 5	12°33'54	21°32'4	4°4'4	26°49'49	8°10'10	15°27'27	6°30'30	4°31'31	7°58'58	18°58'58	28°14'14	28°55'55	12°7'7	10°4'4	F 22
S 23	10 47 1	13°33'47	3°13'30	5°53'53	27°56'56	8°19'19	15°38'38	6°26'26	4°34'34	8°0'0	18°58'58	28°1'1	28°52'52	12°14'14	10°2'2	S 23
S 24	10 50 58	14°33'37	15°33'37	7°43'43	29°2'2	8°26'26	15°48'48	6°22'22	4°37'37	8°2'2	18°59'59	27°47'47	28°49'49	12°21'21	10°1'1	S 24
M25	10 54 54	15°33'26	27°43'43	9°34'34	0°8'8	8°33'33	15°58'58	6°17'17	4°40'40	8°4'4	19°0'0	27°34'34	28°46'46	12°28'28	10°0'0	M25
T 26	10 58 51	16°33'12	10°1'12	11°27'27	1°14'14	8°40'40	16°8'8	6°13'13	4°44'44	8°6'6	19°0'0	27°24'24	28°43'43	12°34'34	9°58'58	T 26
W27	11 2 48	17°32'57	22°28'28	13°20'20	2°20'20	8°46'46	16°18'18	6°9'9	4°47'47	8°8'8	19°0'0	27°16'16	28°40'40	12°41'41	9°57'57	W27
T 28	11 6 44	18°32'40	5°11'5	15°15'15	3°25'25	8°51'51	16°28'28	6°11'5	4°49'50	8°10'10	19°1'1	27°11'11	28°36'36	12°48'48	9°11'55	T 28

Delta T = 269.47 sec Julian Calendar

ASTRODIENST EPHEMERIS for the year 1510

geocentric

MARCH 1510 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	11 10 41	19 ^h 32'21"	17 ^m 54	17 ^h 11	4 ^h 30	8 ^m 55	16 ^h 38	6 ^h R 0	4 ^h Y54	8 ^h 12	19 ^h 1	27 ^h R 9	28 ^m 33	12 ^h 54	9 ^h R53	F 1
S 2	11 14 37	20 ^h 32'01"	0 ^m 58	19 ^h 8	5 ^h 35	8 ^m 59	16 ^h 47	5 ^h 56	4 ^h 57	8 ^h 13	19 ^h 2	27 ^h D 9	28 ^m 30	13 ^h 1	9 ^m 51	S 2
S 3	11 18 34	21 ^h 31'38"	14 ^h 19	21 ^h 5	6 ^h 40	9 ^h 2	16 ^h 57	5 ^h 52	5 ^h 0	8 ^h 15	19 ^h 2	27 ^m 9	28 ^h 27	13 ^h 8	9 ^h 49	S 3
M 4	11 22 30	22 ^h 31'15"	28 ^h 0	23 ^h 4	7 ^h 44	9 ^h 4	17 ^h 6	5 ^h 47	5 ^h 4	8 ^h 17	19 ^h 2	27 ^h R 9	28 ^h 24	13 ^h 15	9 ^h 47	M 4
T 5	11 26 27	23 ^h 30'49"	12 ^h 3 2	25 ^h 4	8 ^h 48	9 ^h 6	17 ^h 15	5 ^h 43	5 ^h 7	8 ^h 19	19 ^h 3	27 ^h 8	28 ^h 20	13 ^h 21	9 ^h 45	T 5
W 6	11 30 23	24 ^h 30'21"	26 ^h 24	27 ^h 4	9 ^h 52	9 ^h 7	17 ^h 24	5 ^h 38	5 ^h 10	8 ^h 20	19 ^h 3	27 ^h 4	28 ^h 17	13 ^h 28	9 ^h 43	W 6
T 7	11 34 20	25 ^h 29'52"	11 ^h 5 5	29 ^h 5	10 ^h 55	9 ^h R 7	17 ^h 33	5 ^h 34	5 ^h 14	8 ^h 22	19 ^h 3	26 ^h 58	28 ^h 14	13 ^h 35	9 ^h 41	T 7
F 8	11 38 17	26 ^h 29'21"	25 ^h 59	1 ^h Y 7	11 ^h 58	9 ^h 7	17 ^h 42	5 ^h 29	5 ^h 17	8 ^h 24	19 ^h 3	26 ^h 50	28 ^h 11	13 ^h 41	9 ^h 38	F 8
S 9	11 42 13	27 ^h 28'48"	10 ^h 59	3 ^h 8	13 ^h 1	9 ^h 5	17 ^h 51	5 ^h 24	5 ^h 21	8 ^h 25	19 ^h 3	26 ^h 41	28 ^h 8	13 ^h 48	9 ^h 36	S 9
S 10	11 46 10	28 ^h 28'12"	25 ^h 54	5 ^h 10	14 ^h 4	9 ^h 3	18 ^h 0	5 ^h 20	5 ^h 24	8 ^h 27	19 ^h 3	26 ^h 32	28 ^h 5	13 ^h 55	9 ^h 33	S 10
M 11	11 50 6	29 ^h 27'35"	10 ^h Y36	7 ^h 12	15 ^h 6	9 ^h 0	18 ^h 8	5 ^h 15	5 ^h 27	8 ^h 29	19 ^h 4	26 ^h 24	28 ^h 1	14 ^h 2	9 ^h 30	M 11
T 12	11 54 3	0 ^h Y26'56"	24 ^h 57	9 ^h 13	16 ^h 8	8 ^h 57	18 ^h 17	5 ^h 11	5 ^h 31	8 ^h 30	19 ^h 4	26 ^h 18	27 ^h 58	14 ^h 8	9 ^h 27	T 12
W 13	11 57 59	1 ^h 26'14"	8 ^h 53	11 ^h 13	17 ^h 9	8 ^h 53	18 ^h 25	5 ^h 6	5 ^h 34	8 ^h 32	19 ^h R 4	26 ^h 14	27 ^h 55	14 ^h 15	9 ^h 24	W 13
T 14	12 1 56	2 ^h 25'31"	22 ^h 21	13 ^h 13	18 ^h 10	8 ^h 47	18 ^h 33	5 ^h 1	5 ^h 38	8 ^h 33	19 ^h 4	26 ^h D12	27 ^h 52	14 ^h 22	9 ^h 21	T 14
F 15	12 5 52	3 ^h 24'45"	5 ^h II23	15 ^h 10	19 ^h 11	8 ^h 41	18 ^h 41	4 ^h 57	5 ^h 41	8 ^h 35	19 ^h 3	26 ^h 13	27 ^h 49	14 ^h 28	9 ^h 18	F 15
S 16	12 9 49	4 ^h 23'56"	18 ^h 1	17 ^h 6	20 ^h 11	8 ^h 35	18 ^h 49	4 ^h 52	5 ^h 45	8 ^h 36	19 ^h 3	26 ^h 14	27 ^h 46	14 ^h 35	9 ^h 15	S 16
S 17	12 13 46	5 ^h 23'06"	0 ^h 521	19 ^h 0	21 ^h 11	8 ^h 27	18 ^h 57	4 ^h 47	5 ^h 48	8 ^h 38	19 ^h 3	26 ^h R15	27 ^h 42	14 ^h 42	9 ^h 12	S 17
M 18	12 17 42	6 ^h 22'13"	12 ^h 26	20 ^h 51	22 ^h 10	8 ^h 19	19 ^h 4	4 ^h 43	5 ^h 51	8 ^h 39	19 ^h 3	26 ^h 15	27 ^h 39	14 ^h 49	9 ^h 9	M 18
T 19	12 21 39	7 ^h 21'17"	24 ^h 22	22 ^h 38	23 ^h 9	8 ^h 10	19 ^h 11	4 ^h 38	5 ^h 55	8 ^h 41	19 ^h 3	26 ^h 13	27 ^h 36	14 ^h 55	9 ^h 5	T 19
W 20	12 25 35	8 ^h 20'20"	6 ^h II13	24 ^h 23	24 ^h 8	8 ^h 1	19 ^h 19	4 ^h 33	5 ^h 58	8 ^h 42	19 ^h 3	26 ^h 9	27 ^h 33	15 ^h 2	9 ^h 2	W 20
T 21	12 29 32	9 ^h 19'20"	18 ^h 5	26 ^h 4	25 ^h 6	7 ^h 50	19 ^h 26	4 ^h 29	6 ^h 2	8 ^h 43	19 ^h 2	26 ^h 3	27 ^h 30	15 ^h 9	8 ^h 58	T 21
F 22	12 33 28	10 ^h 18'17"	0 ^h II 0	27 ^h 40	26 ^h 4	7 ^h 39	19 ^h 33	4 ^h 24	6 ^h 5	8 ^h 45	19 ^h 2	25 ^h 56	27 ^h 26	15 ^h 15	8 ^h 54	F 22
S 23	12 37 25	11 ^h 17'13"	12 ^h 3	29 ^h 13	27 ^h 1	7 ^h 27	19 ^h 40	4 ^h 19	6 ^h 9	8 ^h 46	19 ^h 2	25 ^h 48	27 ^h 23	15 ^h 22	8 ^h 51	S 23
S 24	12 41 21	12 ^h 16'06"	24 ^h 14	0 ^h 840	27 ^h 57	7 ^h 14	19 ^h 46	4 ^h 15	6 ^h 12	8 ^h 47	19 ^h 1	25 ^h 40	27 ^h 20	15 ^h 29	8 ^h 47	S 24
M 25	12 45 18	13 ^h 14'57"	6 ^h 535	2 ^h 3	28 ^h 53	7 ^h 1	19 ^h 53	4 ^h 10	6 ^h 15	8 ^h 49	19 ^h 1	25 ^h 32	27 ^h 17	15 ^h 36	8 ^h 43	M 25
T 26	12 49 14	14 ^h 13'46"	19 ^h 8	3 ^h 20	29 ^h 49	6 ^h 47	19 ^h 59	4 ^h 6	6 ^h 19	8 ^h 50	19 ^h 1	25 ^h 26	27 ^h 14	15 ^h 42	8 ^h 39	T 26
W 27	12 53 11	15 ^h 12'33"	1 ^h II53	4 ^h 32	0 ^h II44	6 ^h 32	20 ^h 6	4 ^h 1	6 ^h 22	8 ^h 51	19 ^h 0	25 ^h 21	27 ^h 11	15 ^h 49	8 ^h 35	W 27
T 28	12 57 8	16 ^h 11'19"	14 ^h 49	5 ^h 39	1 ^h 38	6 ^h 17	20 ^h 12	3 ^h 57	6 ^h 26	8 ^h 52	19 ^h 0	25 ^h 19	27 ^h 7	15 ^h 56	8 ^h 31	T 28
F 29	13 1 4	17 ^h 10'02"	27 ^h 57	6 ^h 40	2 ^h 32	6 ^h 1	20 ^h 18	3 ^h 52	6 ^h 29	8 ^h 53	18 ^h 59	25 ^h D19	27 ^h 4	16 ^h 3	8 ^h 27	F 29
S 30	13 5 1	18 ^h 8'44"	11 ^h 17	7 ^h 35	3 ^h 25	5 ^h 44	20 ^h 23	3 ^h 48	6 ^h 32	8 ^h 54	18 ^h 59	25 ^h 19	27 ^h 1	16 ^h 9	8 ^h 23	S 30
S 31	13 8 57	19 ^h Y 7'24"	24 ^h 50	8 ^h 24	4 ^h II17	5 ^h II27	20 ^h 329	3 ^h 543	6 ^h Y36	8 ^h 555	18 ^h 58	25 ^h II21	26 ^h II58	16 ^h II16	8 ^h II19	S 31

Delta T = 269.30 sec

Julian Calendar 1 March 1510 == Greg. Calendar 11 March 1510

APRIL 1510 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	13 12 54	20 ^h Y 6'02	8 ^h 37	9 ^h 8 8	5 ^h II 9	5 ^h R 9	20 ^h 34	3 ^h R39	6 ^h Y39	8 ^h 56	18 ^h R58	25 ^m II22	26 ^m II55	16 ^h II23	8 ^h R15	M 1
T 2	13 16 50	21 ^h 4'38	22 ^h 36	9 ^h 45	6 ^h 0	4 ^h II50	20 ^h 40	3 ^h 535	6 ^h 43	8 ^h 57	18 ^h 57	25 ^h R23	26 ^h 52	16 ^h 29	8 ^m II11	T 2
W 3	13 20 47	22 ^h 3'13	6 ^h 549	10 ^h 16	6 ^h 50	4 ^h 31	20 ^h 45	3 ^h 30	6 ^h 46	8 ^h 58	18 ^h 56	25 ^h 22	26 ^h 48	16 ^h 36	8 ^h 6	W 3
T 4	13 24 43	23 ^h 1'46	21 ^h 12	10 ^h 42	7 ^h 40	4 ^h 12	20 ^h 50	3 ^h 26	6 ^h 49	8 ^h 59	18 ^h 56	25 ^h 20	26 ^h 45	16 ^h 43	8 ^h 2	T 4
F 5	13 28 40	24 ^h 0'18	5 ^h II42	11 ^h 1	8 ^h 29	3 ^h 52	20 ^h 55	3 ^h 22	6 ^h 53	9 ^h 0	18 ^h 55	25 ^h 16	26 ^h 42	16 ^h 50	7 ^h 58	F 5
S 6	13 32 37	24 ^h 58'48	20 ^h 15	11 ^h 14	9 ^h 17	3 ^h 32	20 ^h 59	3 ^h 18	6 ^h 56	9 ^h 1	18 ^h 54	25 ^h 12	26 ^h 39	16 ^h 56	7 ^h 53	S 6
S 7	13 36 33	25 ^h 57'16	4 ^h Y44	11 ^h 21	10 ^h 4	3 ^h 11	21 ^h 4	3 ^h 13	6 ^h 59	9 ^h 2	18 ^h 53	25 ^h 7	26 ^h 36	17 ^h 3	7 ^h 49	S 7
M 8	13 40 30	26 ^h 55'42	19 ^h 3	11 ^h R23	10 ^h 50	2 ^h 50	21 ^h 8	3 ^h 9	7 ^h 2	9 ^h 3	18 ^h 53	25 ^h 4	26 ^h 32	17 ^h 10	7 ^h 44	M 8
T 9	13 44 26	27 ^h 54'06	3 ^h 8 6	11 ^h 19	11 ^h 36	2 ^h 28	21 ^h 12	3 ^h 5	7 ^h 6	9 ^h 4	18 ^h 52	25 ^h 1	26 ^h 29	17 ^h 16	7 ^h 40	T 9
W10	13 48 23	28 ^h 52'29	16 ^h 51	11 ^h 9	12 ^h 20	2 ^h 7	21 ^h 16	3 ^h 1	7 ^h 9	9 ^h 4	18 ^h 51	24 ^h 59	26 ^h 26	17 ^h 23	7 ^h 35	W10
T 11	13 52 19	29 ^h 50'50	0 ^h II13	10 ^h 55	13 ^h 4	1 ^h 45	21 ^h 20	2 ^h 57	7 ^h 12	9 ^h 5	18 ^h 50	24 ^h D59	26 ^h 23	17 ^h 30	7 ^h 31	T 11
F 12	13 56 16	0 ^h 849'08	13 ^h 14	10 ^h 36	13 ^h 47	1 ^h 23	21 ^h 23	2 ^h 54	7 ^h 15	9 ^h 6	18 ^h 49	25 ^h 0	26 ^h 20	17 ^h 37	7 ^h 26	F 12
S 13	14 0 12	1 ^h 47'25	25 ^h 54	10 ^h 12	14 ^h 28	1 ^h 1	21 ^h 27	2 ^h 50	7 ^h 19	9 ^h 6	18 ^h 48	25 ^h 2	26 ^h 17	17 ^h 43	7 ^h 22	S 13
S 14	14 4 9	2 ^h 45'40	8 ^h 516	9 ^h 45	15 ^h 9	0 ^h 38	21 ^h 30	2 ^h 46	7 ^h 22	9 ^h 7	18 ^h 47	25 ^h 3	26 ^h 13	17 ^h 50	7 ^h 17	S 14
M15	14 8 6	3 ^h 43'53	20 ^h 24	9 ^h 14	15 ^h 48	0 ^h 16	21 ^h 33	2 ^h 42	7 ^h 25	9 ^h 8	18 ^h 46	25 ^h 5	26 ^h 10	17 ^h 57	7 ^h 13	M15
T 16	14 12 2	4 ^h 42'03	2 ^h II22	8 ^h 41	16 ^h 26	29 ^h 54	21 ^h 36	2 ^h 39	7 ^h 28	9 ^h 8	18 ^h 45	25 ^h R 5	26 ^h 7	18 ^h 4	7 ^h 8	T 16
W17	14 15 59	5 ^h 40'12	14 ^h 16	8 ^h 5	17 ^h 3	29 ^h 32	21 ^h 38	2 ^h 35	7 ^h 31	9 ^h 9	18 ^h 44	25 ^h 5	26 ^h 4	18 ^h 10	7 ^h 4	W17
T 18	14 19 55	6 ^h 38'19	26 ^h 9	7 ^h 28	17 ^h 38	29 ^h 9	21 ^h 41	2 ^h 32	7 ^h 34	9 ^h 9	18 ^h 43	25 ^h 4	26 ^h 1	18 ^h 17	6 ^h 59	T 18
F 19	14 23 52	7 ^h 36'23	8 ^h II 7	6 ^h 51	18 ^h 13	28 ^h 47	21 ^h 43	2 ^h 28	7 ^h 37	9 ^h 10	18 ^h 42	25 ^h 2	25 ^h 57	18 ^h 24	6 ^h 54	F 19
S 20	14 27 48	8 ^h 34'26	20 ^h 12	6 ^h 13	18 ^h 46	28 ^h 26	21 ^h 45	2 ^h 25	7 ^h 41	9 ^h 10	18 ^h 41	25 ^h 0	25 ^h 54	18 ^h 30	6 ^h 50	S 20
S 21	14 31 45	9 ^h 32'27	2 ^h 530	5 ^h 36	19 ^h 17	28 ^h 4	21 ^h 47	2 ^h 22	7 ^h 44	9 ^h 10	18 ^h 40	24 ^h 57	25 ^h 51	18 ^h 37	6 ^h 45	S 21
M22	14 35 41	10 ^h 30'26	15 ^h 1	5 ^h 0	19 ^h 47	27 ^h 43	21 ^h 49	2 ^h 19	7 ^h 47	9 ^h 11	18 ^h 39	24 ^h 55	25 ^h 48	18 ^h 44	6 ^h 41	M22
T 23	14 39 38	11 ^h 28'23	27 ^h 47	4 ^h 26	20 ^h 16	27 ^h 22	21 ^h 50	2 ^h 16	7 ^h 50	9 ^h 11	18 ^h 38	24 ^h 54	25 ^h 45	18 ^h 51	6 ^h 36	T 23
W24	14 43 35	12 ^h 26'19	10 ^h II50	3 ^h 54	20 ^h 43	27 ^h 1	21 ^h 52	2 ^h 13	7 ^h 53	9 ^h 11	18 ^h 37	24 ^h 53	25 ^h 42	18 ^h 57	6 ^h 31	W24
T 25	14 47 31	13 ^h 24'13	24 ^h 8	3 ^h 25	21 ^h 8	26 ^h 41	21 ^h 53	2 ^h 10	7 ^h 56	9 ^h 12	18 ^h 35	24 ^h D52	25 ^h 38	19 ^h 4	6 ^h 27	T 25
F 26	14 51 28	14 ^h 22'05	7 ^h 740	2 ^h 59	21 ^h 31	26 ^h 22	21 ^h 54	2 ^h 7	7 ^h 58	9 ^h 12	18 ^h 34	24 ^h 52	25 ^h 35	19 ^h 11	6 ^h 22	F 26
S 27	14 55 24	15 ^h 19'57	21 ^h 26	2 ^h 38	21 ^h 53	26 ^h 2	21 ^h 55	2 ^h 4	8 ^h 1	9 ^h 12	18 ^h 33	24 ^h 53	25 ^h 32	19 ^h 17	6 ^h 18	S 27
S 28	14 59 21	16 ^h 17'47	5 ^h 22	2 ^h 20	22 ^h 13	25 ^h 44	21 ^h 55	2 ^h 1	8 ^h 4	9 ^h 12	18 ^h 32	24 ^h 54	25 ^h 29	19 ^h 24	6 ^h 13	S 28
M29	15 3 17	17 ^h 15'35	19 ^h 26	2 ^h 6	22 ^h 31	25 ^h 25	21 ^h 56	1 ^h 59	8 ^h 7	9 ^h 12	18 ^h 30	24 ^h 54	25 ^h 26	19 ^h 31	6 ^h 9	M29
T 30	15 7 14	18 ^h 13'23	3 ^h 36	1 ^h 56	22 ^h II47	25 ^h 5 8	21 ^h 56	1 ^h 56	8 ^h Y10	9 ^h 13	18 ^h 29	24 ^h II55	25 ^h II23	19 ^h II38	6 ^h II 5	T 30

ASTRODIENST EPHEMERIS for the year 1510
geocentric

MAY 1510 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	15 11 10	19°8'11'09	17°49'49	1°R52	23°II 1	24°R51	21°R56	1°R54	8°Y13	9°13	18°R28	24°R55	25°M19	19°Ω44	6°R 0	W 1
T 2	15 15 7	20° 8'54	2°H 4	1°D51	23°13	24°Ω34	21°Ω56	1°Ω52	8°15	9°13	18°Ω27	24°M55	25°16	19°51	5°M56	T 2
F 3	15 19 4	21° 6'38	16°16	1°Ω55	23°23	24°18	21°56	1°49	8°18	9°R13	18°25	24°55	25°13	19°58	5°51	F 3
S 4	15 23 0	22° 4'21	0°Y25	2° 4	23°31	24° 3	21°55	1°47	8°21	9°13	18°24	24°54	25°10	20° 5	5°47	S 4
S 5	15 26 57	23° 2'03	14°26	2°17	23°37	23°49	21°55	1°45	8°24	9°13	18°22	24°54	25° 7	20°11	5°43	S 5
M 6	15 30 53	23°59'43	28°16	2°35	23°40	23°35	21°54	1°43	8°26	9°13	18°21	24°54	25° 3	20°18	5°39	M 6
T 7	15 34 50	24°57'23	11°Ω54	2°57	23°R41	23°22	21°53	1°41	8°29	9°12	18°20	24°D54	25° 0	20°25	5°35	T 7
W 8	15 38 46	25°55'01	25°18	3°24	23°40	23°10	21°51	1°39	8°31	9°12	18°18	24°R54	24°57	20°31	5°30	W 8
T 9	15 42 43	26°52'39	8°II25	3°54	23°37	22°58	21°50	1°38	8°34	9°12	18°17	24°54	24°54	20°38	5°26	T 9
F 10	15 46 39	27°50'14	21°15	4°29	23°30	22°48	21°48	1°36	8°37	9°12	18°15	24°54	24°51	20°45	5°22	F 10
S 11	15 50 36	28°47'49	3°Ω50	5° 8	23°22	22°38	21°46	1°35	8°39	9°12	18°14	24°53	24°48	20°52	5°18	S 11
S 12	15 54 33	29°45'22	16°10	5°50	23°11	22°29	21°44	1°33	8°41	9°11	18°13	24°53	24°44	20°58	5°15	S 12
M13	15 58 29	0°II42'54	28°17	6°36	22°58	22°21	21°42	1°32	8°44	9°11	18°11	24°52	24°41	21° 5	5°11	M13
T 14	16 2 26	1°40'25	10°Ω16	7°26	22°42	22°13	21°40	1°31	8°46	9°11	18°10	24°52	24°38	21°12	5° 7	T 14
W15	16 6 22	2°37'54	22°11	8°20	22°24	22° 7	21°37	1°30	8°49	9°10	18° 8	24°51	24°35	21°18	5° 3	W15
T 16	16 10 19	3°35'22	4°H 4	9°17	22° 4	22° 1	21°34	1°29	8°51	9°10	18° 7	24°D51	24°32	21°25	5° 0	T 16
F 17	16 14 15	4°32'49	16° 2	10°17	21°41	21°56	21°31	1°28	8°53	9° 9	18° 5	24°51	24°29	21°32	4°56	F 17
S 18	16 18 12	5°30'14	28° 8	11°20	21°16	21°52	21°28	1°27	8°55	9° 9	18° 3	24°52	24°25	21°39	4°52	S 18
S 19	16 22 8	6°27'39	10°Ω27	12°27	20°50	21°49	21°25	1°26	8°58	9° 8	18° 2	24°53	24°22	21°45	4°49	S 19
M20	16 26 5	7°25'02	23° 3	13°37	20°21	21°46	21°22	1°26	9° 0	9° 8	18° 0	24°54	24°19	21°52	4°46	M20
T 21	16 30 2	8°22'24	5°M58	14°50	19°50	21°45	21°18	1°25	9° 2	9° 7	17°59	24°55	24°16	21°59	4°42	T 21
W22	16 33 58	9°19'45	19°14	16° 6	19°18	21°44	21°14	1°25	9° 4	9° 7	17°57	24°R55	24°13	22° 6	4°39	W22
T 23	16 37 55	10°17'05	2°Ω17	17°25	18°44	21°D44	21°10	1°24	9° 6	9° 6	17°56	24°55	24° 9	22°12	4°36	T 23
F 24	16 41 51	11°14'24	16°47	18°47	18°10	21°45	21° 6	1°24	9° 8	9° 5	17°54	24°55	24° 6	22°19	4°33	F 24
S 25	16 45 48	12°11'43	1°Ω 0	20°12	17°34	21°46	21° 2	1°24	9°10	9° 5	17°53	24°53	24° 3	22°26	4°30	S 25
S 26	16 49 44	13° 9'00	15°24	21°40	16°57	21°48	20°57	1°D24	9°12	9° 4	17°51	24°51	24° 0	22°32	4°27	S 26
M27	16 53 41	14° 6'18	29°54	23°11	16°20	21°52	20°53	1°24	9°14	9° 3	17°50	24°48	23°57	22°39	4°24	M27
T 28	16 57 37	15° 3'35	14°Ω24	24°44	15°42	21°55	20°48	1°24	9°16	9° 3	17°48	24°46	23°54	22°46	4°22	T 28
W29	17 1 34	16° 0'51	28°49	26°21	15° 4	22° 0	20°43	1°25	9°18	9° 2	17°46	24°44	23°50	22°53	4°19	W29
T 30	17 5 31	16°58'07	13°H 6	28° 0	14°27	22° 5	20°38	1°25	9°19	9° 1	17°45	24°D44	23°47	22°59	4°16	T 30
F 31	17 9 27	17°II55'23	27°H11	29°Ω42	13°II50	22°Ω11	20°Ω32	1°Ω25	9°Y21	9°10	17°43	24°M44	23°M44	23°Ω 6	4°M14	F 31

Delta T = 268.93 sec

Julian Calendar 1 May 1510 == Greg. Calendar 11 May 1510

JUNE 1510 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 13 24	18°II52'38	11°Y 4	1°II27	13°R13	22°Ω18	20°R27	1°Ω26	9°Y23	8°R59	17°R42	24°M45	23°M41	23°Ω13	4°R12	S 1
S 2	17 17 20	19°49'54	24°43	3°14	12°II38	22°26	20°Ω22	1°27	9°24	8°Ω58	17°Ω40	24°46	23°38	23°20	4°M 9	S 2
M 3	17 21 17	20°47'09	8°Ω 9	5° 5	12° 3	22°34	20°16	1°27	9°26	8°57	17°39	24°48	23°35	23°26	4° 7	M 3
T 4	17 25 13	21°44'23	21°22	6°58	11°30	22°43	20°10	1°28	9°27	8°56	17°37	24°R48	23°31	23°33	4° 5	T 4
W 5	17 29 10	22°41'38	4°II22	8°53	10°58	22°53	20° 4	1°29	9°29	8°56	17°35	24°48	23°28	23°40	4° 3	W 5
T 6	17 33 6	23°38'52	17°10	10°51	10°28	23° 3	19°58	1°30	9°30	8°55	17°34	24°46	23°25	23°46	4° 1	T 6
F 7	17 37 3	24°36'06	29°45	12°51	10° 0	23°14	19°52	1°32	9°32	8°53	17°32	24°43	23°22	23°53	3°59	F 7
S 8	17 41 0	25°33'20	12°Ω 9	14°53	9°33	23°26	19°46	1°33	9°33	8°52	17°31	24°39	23°19	24° 0	3°58	S 8
S 9	17 44 56	26°30'33	24°21	16°57	9° 9	23°38	19°39	1°34	9°35	8°51	17°29	24°34	23°15	24° 7	3°56	S 9
M10	17 48 53	27°27'46	6°Ω25	19° 3	8°46	23°51	19°33	1°36	9°36	8°50	17°28	24°28	23°12	24°13	3°54	M10
T 11	17 52 49	28°24'58	18°22	21°10	8°26	24° 4	19°26	1°37	9°37	8°49	17°26	24°23	23° 9	24°20	3°53	T 11
W12	17 56 46	29°22'10	0°H15	23°19	8° 9	24°19	19°19	1°39	9°38	8°48	17°24	24°18	23° 6	24°27	3°52	W12
T 13	18 0 42	0°Ω19'21	12° 7	25°28	7°53	24°33	19°12	1°41	9°39	8°47	17°23	24°15	23° 3	24°33	3°50	T 13
F 14	18 4 39	1°16'33	24° 3	27°38	7°40	24°49	19° 5	1°43	9°41	8°46	17°21	24°13	23° 0	24°40	3°49	F 14
S 15	18 8 35	2°13'43	6°Ω 8	29°49	7°29	25° 5	18°58	1°45	9°42	8°44	17°20	24°D13	22°56	24°47	3°48	S 15
S 16	18 12 32	3°10'54	18°25	2°Ω 0	7°21	25°21	18°51	1°47	9°43	8°43	17°18	24°14	22°53	24°54	3°47	S 16
M17	18 16 29	4° 8'04	1°M 0	4°10	7°15	25°38	18°44	1°49	9°44	8°42	17°17	24°16	22°50	25° 0	3°47	M17
T 18	18 20 25	5° 5'13	13°56	6°20	7°11	25°56	18°37	1°51	9°44	8°41	17°15	24°17	22°47	25° 7	3°46	T 18
W19	18 24 22	6° 2'23	27°18	8°30	7°D10	26°14	18°29	1°54	9°45	8°39	17°14	24°R17	22°44	25°14	3°45	W19
T 20	18 28 18	6°59'33	11°Ω 5	10°38	7°11	26°33	18°22	1°56	9°46	8°38	17°13	24°16	22°41	25°21	3°45	T 20
F 21	18 32 15	7°56'42	25°18	12°46	7°14	26°52	18°15	1°59	9°47	8°37	17°11	24°13	22°37	25°27	3°45	F 21
S 22	18 36 11	8°53'52	9°Ω52	14°52	7°20	27°12	18° 7	2° 1	9°48	8°35	17°10	24° 8	22°34	25°34	3°44	S 22
S 23	18 40 8	9°51'02	24°41	16°57	7°28	27°32	18° 0	2° 4	9°48	8°34	17° 8	24° 2	22°31	25°41	3°44	S 23
M24	18 44 4	10°48'12	9°Ω37	19° 0	7°38	27°53	17°52	2° 7	9°49	8°33	17° 7	23°55	22°28	25°47	3°D44	M24
T 25	18 48 1	11°45'22	24°31	21° 2	7°50	28°14	17°44	2°10	9°50	8°31	17° 5	23°48	22°25	25°54	3°44	T 25
W26	18 51 58	12°42'33	9°H16	23° 2	8° 4	28°35	17°37	2°13	9°50	8°30	17° 4	23°43	22°21	26° 1	3°44	W26
T 27	18 55 54	13°39'44	23°44	25° 0	8°20	28°57	17°29	2°16	9°51	8°28	17° 3	23°39	22°18	26° 8	3°45	T 27
F 28	18 59 51	14°36'56	7°Y52	26°57	8°37	29°20	17°21	2°19	9°51	8°27	17° 1	23°38	22°15	26°14	3°45	F 28
S 29	19 3 47	15°34'08	21°40	28°51	8°57	29°43	17°14	2°22	9°51	8°25	17° 0	23°D38	22°12	26°21	3°45	S 29
S 30	19 7 44	16°Ω31'22	5°Ω 8	0°Ω44	9°II19	0°M 6	17°Ω 6	2°Ω25	9°Y52	8°Ω24	16°Ω59	23°M39	22°M 9	26°Ω28	3°M46	S 30

Delta T = 268.74 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1510

geocentric

JULY 1510 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	19 11 40	17°28'36	18°18'	2°36	9°42	0°30	16°58	2°29	9°52	8°23	16°57	23°39	22°6	26°35	3°47	M 1
T 2	19 15 37	18°25'50	1°12	4°25	10°7	0°54	16°50	2°32	9°52	8°21	16°56	23°39	22°2	26°41	3°47	T 2
W 3	19 19 33	19°23'06	13°53	6°12	10°33	1°19	16°43	2°36	9°52	8°20	16°55	23°37	21°59	26°48	3°48	W 3
T 4	19 23 30	20°20'22	26°23	7°58	11°2	1°44	16°35	2°40	9°53	8°18	16°54	23°33	21°56	26°55	3°49	T 4
F 5	19 27 27	21°17'39	8°42	9°42	11°31	2°9	16°27	2°43	9°53	8°16	16°52	23°26	21°53	27°1	3°50	F 5
S 6	19 31 23	22°14'56	20°54	11°24	12°2	2°35	16°20	2°47	9°53	8°15	16°51	23°17	21°50	27°8	3°52	S 6
S 7	19 35 20	23°12'14	2°58	13°4	12°34	3°1	16°12	2°51	9°53	8°13	16°50	23°6	21°47	27°15	3°53	S 7
M 8	19 39 16	24°9'32	14°57	14°42	13°8	3°28	16°4	2°55	9°53	8°12	16°49	22°55	21°43	27°22	3°54	M 8
T 9	19 43 13	25°6'51	26°50	16°19	13°43	3°55	15°57	2°59	9°53	8°10	16°48	22°44	21°40	27°28	3°56	T 9
W10	19 47 9	26°4'11	8°42	17°54	14°19	4°22	15°49	3°3	9°52	8°9	16°46	22°34	21°37	27°35	3°58	W10
T 11	19 51 6	27°1'31	20°33	19°26	14°57	4°50	15°42	3°8	9°52	8°7	16°45	22°26	21°34	27°42	3°59	T 11
F 12	19 55 2	27°58'52	2°27	20°58	15°35	5°18	15°34	3°12	9°52	8°5	16°44	22°21	21°31	27°48	4°1	F 12
S 13	19 58 59	28°56'13	14°29	22°27	16°15	5°46	15°27	3°16	9°52	8°4	16°43	22°18	21°27	27°55	4°3	S 13
S 14	20 2 56	29°53'35	26°44	23°54	16°56	6°15	15°20	3°21	9°51	8°2	16°42	22°D17	21°24	28°2	4°5	S 14
M15	20 6 52	0°50'57	9°15	25°20	17°37	6°44	15°12	3°25	9°51	8°1	16°41	22°17	21°21	28°9	4°7	M15
T 16	20 10 49	1°48'20	22°8	26°43	18°20	7°13	15°5	3°30	9°50	7°59	16°40	22°R17	21°18	28°15	4°10	T 16
W17	20 14 45	2°45'44	5°27	28°5	19°3	7°43	14°58	3°35	9°50	7°57	16°39	22°17	21°15	28°22	4°12	W17
T 18	20 18 42	3°43'08	19°14	29°25	19°48	8°13	14°51	3°39	9°49	7°56	16°38	22°14	21°12	28°29	4°15	T 18
F 19	20 22 38	4°40'33	3°31	0°42	20°33	8°43	14°44	3°44	9°49	7°54	16°37	22°9	21°8	28°36	4°17	F 19
S 20	20 26 35	5°37'59	18°14	1°58	21°20	9°14	14°38	3°49	9°48	7°53	16°36	22°2	21°5	28°42	4°20	S 20
S 21	20 30 32	6°35'26	3°18	3°11	22°7	9°45	14°31	3°54	9°47	7°51	16°36	21°52	21°2	28°49	4°23	S 21
M22	20 34 28	7°32'54	18°32	4°23	22°55	10°16	14°24	3°59	9°47	7°49	16°35	21°42	20°59	28°56	4°25	M22
T 23	20 38 25	8°30'23	3°46	5°32	23°43	10°47	14°18	4°4	9°46	7°48	16°34	21°32	20°56	29°2	4°28	T 23
W24	20 42 21	9°27'53	18°49	6°38	24°33	11°19	14°11	4°9	9°45	7°46	16°33	21°23	20°52	29°9	4°31	W24
T 25	20 46 18	10°25'24	3°32	7°43	25°23	11°51	14°5	4°15	9°44	7°44	16°32	21°17	20°49	29°16	4°35	T 25
F 26	20 50 14	11°22'57	17°51	8°44	26°13	12°23	13°59	4°20	9°43	7°43	16°32	21°13	20°46	29°23	4°38	F 26
S 27	20 54 11	12°20'32	1°44	9°43	27°5	12°55	13°53	4°25	9°42	7°41	16°31	21°12	20°43	29°29	4°41	S 27
S 28	20 58 7	13°18'08	15°11	10°39	27°57	13°28	13°47	4°31	9°41	7°39	16°30	21°12	20°40	29°36	4°45	S 28
M29	21 2 4	14°15'45	28°15	11°33	28°50	14°1	13°42	4°36	9°40	7°38	16°29	21°11	20°37	29°43	4°48	M29
T 30	21 6 0	15°13'24	11°0	12°23	29°43	14°34	13°36	4°42	9°39	7°36	16°29	21°10	20°33	29°50	4°52	T 30
W31	21 9 57	16°11'05	23°29	13°10	0°37	15°8	13°30	4°47	9°38	7°35	16°28	21°10	20°33	29°50	4°52	W31

Delta T = 268.56 sec

Julian Calendar 1 July 1510 == Greg. Calendar 11 July 1510

AUGUST 1510 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	21 13 54	17°18'47	5°46	13°53	1°31	15°42	13°R25	4°53	9°R37	7°R33	16°R28	21°R1	20°M27	0°M3	4°M59	T 1
F 2	21 17 50	18°6'31	17°55	14°33	2°26	16°16	13°20	4°59	9°Y36	7°31	16°27	20°M53	20°24	0°10	5°3	F 2
S 3	21 21 47	19°4'16	29°56	15°9	3°22	16°50	13°15	5°5	9°35	7°30	16°27	20°21	20°21	0°16	5°7	S 3
S 4	21 25 43	20°2'03	11°53	15°41	4°18	17°24	13°10	5°10	9°33	7°28	16°26	20°28	20°18	0°23	5°11	S 4
M 5	21 29 40	20°59'51	23°47	16°9	5°14	17°59	13°5	5°16	9°32	7°27	16°26	20°14	20°14	0°30	5°16	M 5
T 6	21 33 36	21°57'40	5°39	16°32	6°11	18°34	13°1	5°22	9°31	7°25	16°25	20°0	20°11	0°37	5°20	T 6
W 7	21 37 33	22°55'31	17°30	16°51	7°9	19°9	12°57	5°28	9°29	7°24	16°25	19°47	20°8	0°43	5°24	W 7
T 8	21 41 29	23°53'23	29°23	17°4	8°7	19°44	12°52	5°34	9°28	7°22	16°25	19°37	20°5	0°50	5°29	T 8
F 9	21 45 26	24°51'17	11°19	17°12	9°5	20°20	12°48	5°40	9°26	7°20	16°24	19°30	20°2	0°57	5°33	F 9
S 10	21 49 23	25°49'12	23°22	17°R15	10°4	20°56	12°45	5°47	9°25	7°19	16°24	19°25	19°58	1°3	5°38	S 10
S 11	21 53 19	26°47'08	5°36	17°11	11°3	21°32	12°41	5°53	9°23	7°17	16°24	19°23	19°55	1°10	5°42	S 11
M12	21 57 16	27°45'06	18°6	17°2	12°2	22°8	12°37	5°59	9°21	7°16	16°23	19°D22	19°52	1°17	5°47	M12
T 13	22 1 12	28°43'05	0°55	16°47	13°2	22°44	12°34	6°5	9°20	7°14	16°23	19°R22	19°49	1°24	5°52	T 13
W14	22 5 9	29°41'06	14°8	16°26	14°3	23°21	12°31	6°12	9°18	7°13	16°23	19°22	19°46	1°30	5°57	W14
T 15	22 9 5	0°39'07	27°48	15°59	15°3	23°58	12°28	6°18	9°16	7°11	16°23	19°19	19°43	1°37	6°2	T 15
F 16	22 13 2	1°37'11	11°58	15°25	16°4	24°35	12°25	6°24	9°15	7°10	16°23	19°15	19°39	1°44	6°7	F 16
S 17	22 16 58	2°35'15	26°37	14°46	17°5	25°12	12°23	6°31	9°13	7°9	16°23	19°8	19°36	1°50	6°12	S 17
S 18	22 20 55	3°33'22	11°38	14°2	18°7	25°49	12°20	6°37	9°11	7°7	16°23	18°58	19°33	1°57	6°18	S 18
M19	22 24 52	4°31'29	26°55	13°12	19°9	26°27	12°18	6°44	9°9	7°6	16°D23	18°48	19°30	2°4	6°23	M19
T 20	22 28 48	5°29'38	12°16	12°19	20°11	27°4	12°16	6°51	9°7	7°4	16°23	18°38	19°27	2°11	6°28	T 20
W21	22 32 45	6°27'50	27°29	11°22	21°14	27°42	12°14	6°57	9°5	7°3	16°23	18°29	19°24	2°17	6°34	W21
T 22	22 36 41	7°26'03	12°Y24	10°23	22°17	28°20	12°12	7°4	9°4	7°2	16°23	18°23	19°20	2°24	6°39	T 22
F 23	22 40 38	8°24'18	26°54	9°24	23°20	28°58	12°11	7°11	9°2	7°0	16°23	18°19	19°17	2°31	6°45	F 23
S 24	22 44 34	9°22'35	10°56	8°24	24°24	29°37	12°10	7°17	9°0	6°59	16°23	18°17	19°14	2°38	6°51	S 24
S 25	22 48 31	10°20'54	24°30	7°26	25°27	0°15	12°9	7°24	8°58	6°58	16°23	18°D17	19°11	2°44	6°57	S 25
M26	22 52 27	11°19'15	7°37	6°32	26°32	0°54	12°8	7°31	8°55	6°56	16°23	18°R17	19°8	2°51	7°2	M26
T 27	22 56 24	12°17'39	20°21	5°42	27°36	1°33	12°7	7°38	8°53	6°55	16°24	18°17	19°4	2°58	7°8	T 27
W28	23 0 21	13°16'05	2°47	4°57	28°40	2°12	12°7	7°45	8°51	6°54	16°24	18°15	19°1	3°4	7°14	W28
T 29	23 4 17	14°14'33	14°59	4°19	29°45	2°51	12°6	7°52	8°49	6°53	16°24	18°11	18°58	3°11	7°20	T 29
F 30	23 8 14	15°13'03	27°1	3°49	0°50	3°30	12°D6	7°58	8°47	6°51	16°25	18°4	18°55	3°18	7°26	F 30
S 31	23 12 10	16°11'35	8°57	3°27	1°56	4°10	12°3	8°5	8°Y45	6°50	16°25	17°M55	18°M52	3°25	7°M33	S 31

Delta T = 268.37 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1510

geocentric

SEPTEMBER 1510 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 16 7	17 ¹⁰ 09	20 ⁰² 50	3 ⁰⁰ 15	3 ⁰⁰ 1	4 ⁵⁰ 50	12 ⁰² 6	8 ⁰² 12	8 ⁰⁰ 43	6 ⁰⁰ 49	16 ⁰⁰ 25	17 ⁰⁰ 45	18 ⁰⁰ 49	3 ⁰⁰ 31	7 ⁰⁰ 39	S 1
M 2	23 20 3	18 ⁰⁰ 45	2 ⁰⁰ 41	3 ⁰⁰ D12	4 ⁰⁰ 7	5 ⁰⁰ 29	12 ⁰⁰ 7	8 ⁰⁰ 19	8 ⁰⁰ 40	6 ⁰⁰ 48	16 ⁰⁰ 26	17 ⁰⁰ 33	18 ⁰⁰ 45	3 ⁰⁰ 38	7 ⁰⁰ 45	M 2
T 3	23 24 0	19 ⁰⁰ 723	14 ⁰⁰ 34	3 ⁰⁰ 18	5 ⁰⁰ 13	6 ⁰⁰ 9	12 ⁰⁰ 8	8 ⁰⁰ 26	8 ⁰⁰ 38	6 ⁰⁰ 47	16 ⁰⁰ 26	17 ⁰⁰ 21	18 ⁰⁰ 42	3 ⁰⁰ 45	7 ⁰⁰ 52	T 3
W 4	23 27 56	20 ⁰⁰ 603	26 ⁰⁰ 28	3 ⁰⁰ 35	6 ⁰⁰ 20	6 ⁰⁰ 49	12 ⁰⁰ 8	8 ⁰⁰ 34	8 ⁰⁰ 36	6 ⁰⁰ 46	16 ⁰⁰ 27	17 ⁰⁰ 11	18 ⁰⁰ 39	3 ⁰⁰ 51	7 ⁰⁰ 58	W 4
T 5	23 31 53	21 ⁰⁰ 445	8 ⁰⁰ 26	4 ⁰⁰ 0	7 ⁰⁰ 26	7 ⁰⁰ 30	12 ⁰⁰ 9	8 ⁰⁰ 41	8 ⁰⁰ 34	6 ⁰⁰ 45	16 ⁰⁰ 27	17 ⁰⁰ 3	18 ⁰⁰ 36	3 ⁰⁰ 58	8 ⁰⁰ 5	T 5
F 6	23 35 49	22 ⁰⁰ 329	20 ⁰⁰ 30	4 ⁰⁰ 35	8 ⁰⁰ 33	8 ⁰⁰ 10	12 ⁰⁰ 11	8 ⁰⁰ 48	8 ⁰⁰ 31	6 ⁰⁰ 44	16 ⁰⁰ 28	16 ⁰⁰ 57	18 ⁰⁰ 33	4 ⁰⁰ 5	8 ⁰⁰ 11	F 6
S 7	23 39 46	23 ⁰⁰ 215	2 ⁰⁰ 41	5 ⁰⁰ 19	9 ⁰⁰ 40	8 ⁰⁰ 51	12 ⁰⁰ 12	8 ⁰⁰ 55	8 ⁰⁰ 29	6 ⁰⁰ 43	16 ⁰⁰ 28	16 ⁰⁰ 54	18 ⁰⁰ 29	4 ⁰⁰ 12	8 ⁰⁰ 18	S 7
S 8	23 43 43	24 ⁰⁰ 103	15 ⁰⁰ 2	6 ⁰⁰ 11	10 ⁰⁰ 47	9 ⁰⁰ 31	12 ⁰⁰ 14	9 ⁰⁰ 2	8 ⁰⁰ 27	6 ⁰⁰ 42	16 ⁰⁰ 29	16 ⁰⁰ D52	18 ⁰⁰ 26	4 ⁰⁰ 18	8 ⁰⁰ 24	S 8
M 9	23 47 39	24 ⁰⁰ 5953	27 ⁰⁰ 36	7 ⁰⁰ 11	11 ⁰⁰ 54	10 ⁰⁰ 12	12 ⁰⁰ 16	9 ⁰⁰ 9	8 ⁰⁰ 24	6 ⁰⁰ 41	16 ⁰⁰ 30	16 ⁰⁰ 53	18 ⁰⁰ 23	4 ⁰⁰ 25	8 ⁰⁰ 31	M 9
T 10	23 51 36	25 ⁰⁰ 5844	10 ⁰⁰ 26	8 ⁰⁰ 17	13 ⁰⁰ 2	10 ⁰⁰ 53	12 ⁰⁰ 18	9 ⁰⁰ 16	8 ⁰⁰ 22	6 ⁰⁰ 40	16 ⁰⁰ 30	16 ⁰⁰ 54	18 ⁰⁰ 20	4 ⁰⁰ 32	8 ⁰⁰ 38	T 10
W11	23 55 32	26 ⁰⁰ 5737	23 ⁰⁰ 37	9 ⁰⁰ 30	14 ⁰⁰ 9	11 ⁰⁰ 34	12 ⁰⁰ 20	9 ⁰⁰ 24	8 ⁰⁰ 20	6 ⁰⁰ 39	16 ⁰⁰ 31	16 ⁰⁰ R55	18 ⁰⁰ 17	4 ⁰⁰ 38	8 ⁰⁰ 45	W11
T 12	23 59 29	27 ⁰⁰ 5632	7 ⁰⁰ 31	10 ⁰⁰ 49	15 ⁰⁰ 17	12 ⁰⁰ 15	12 ⁰⁰ 22	9 ⁰⁰ 31	8 ⁰⁰ 17	6 ⁰⁰ 38	16 ⁰⁰ 32	16 ⁰⁰ 54	18 ⁰⁰ 14	4 ⁰⁰ 45	8 ⁰⁰ 52	T 12
F 13	0 3 25	28 ⁰⁰ 5529	21 ⁰⁰ 10	12 ⁰⁰ 13	16 ⁰⁰ 25	12 ⁰⁰ 57	12 ⁰⁰ 25	9 ⁰⁰ 38	8 ⁰⁰ 15	6 ⁰⁰ 37	16 ⁰⁰ 33	16 ⁰⁰ 52	18 ⁰⁰ 10	4 ⁰⁰ 52	8 ⁰⁰ 59	F 13
S 14	0 7 22	29 ⁰⁰ 5427	5 ⁰⁰ 34	13 ⁰⁰ 42	17 ⁰⁰ 33	13 ⁰⁰ 38	12 ⁰⁰ 28	9 ⁰⁰ 45	8 ⁰⁰ 13	6 ⁰⁰ 36	16 ⁰⁰ 33	16 ⁰⁰ 48	18 ⁰⁰ 7	4 ⁰⁰ 59	9 ⁰⁰ 5	S 14
S 15	0 11 18	0 ⁰⁰ 5327	20 ⁰⁰ 20	15 ⁰⁰ 14	18 ⁰⁰ 42	14 ⁰⁰ 19	12 ⁰⁰ 31	9 ⁰⁰ 53	8 ⁰⁰ 10	6 ⁰⁰ 36	16 ⁰⁰ 34	16 ⁰⁰ 43	18 ⁰⁰ 4	5 ⁰⁰ 5	9 ⁰⁰ 13	S 15
M16	0 15 15	1 ⁰⁰ 5229	5 ⁰⁰ 22	16 ⁰⁰ 49	19 ⁰⁰ 50	15 ⁰⁰ 1	12 ⁰⁰ 34	10 ⁰⁰ 0	8 ⁰⁰ 8	6 ⁰⁰ 35	16 ⁰⁰ 35	16 ⁰⁰ 36	18 ⁰⁰ 1	5 ⁰⁰ 12	9 ⁰⁰ 20	M16
T 17	0 19 12	2 ⁰⁰ 5133	20 ⁰⁰ 32	18 ⁰⁰ 27	20 ⁰⁰ 59	15 ⁰⁰ 43	12 ⁰⁰ 37	10 ⁰⁰ 7	8 ⁰⁰ 5	6 ⁰⁰ 34	16 ⁰⁰ 36	16 ⁰⁰ 29	17 ⁰⁰ 58	5 ⁰⁰ 19	9 ⁰⁰ 27	T 17
W18	0 23 8	3 ⁰⁰ 5039	5 ⁰⁰ 39	20 ⁰⁰ 7	22 ⁰⁰ 8	16 ⁰⁰ 25	12 ⁰⁰ 40	10 ⁰⁰ 14	8 ⁰⁰ 3	6 ⁰⁰ 33	16 ⁰⁰ 37	16 ⁰⁰ 23	17 ⁰⁰ 55	5 ⁰⁰ 25	9 ⁰⁰ 34	W18
T 19	0 27 5	4 ⁰⁰ 4947	20 ⁰⁰ 34	21 ⁰⁰ 48	23 ⁰⁰ 17	17 ⁰⁰ 7	12 ⁰⁰ 44	10 ⁰⁰ 22	8 ⁰⁰ 0	6 ⁰⁰ 33	16 ⁰⁰ 38	16 ⁰⁰ 19	17 ⁰⁰ 51	5 ⁰⁰ 32	9 ⁰⁰ 41	T 19
F 20	0 31 1	5 ⁰⁰ 4857	5 ⁰⁰ 8	23 ⁰⁰ 32	24 ⁰⁰ 26	17 ⁰⁰ 49	12 ⁰⁰ 48	10 ⁰⁰ 29	7 ⁰⁰ 58	6 ⁰⁰ 32	16 ⁰⁰ 39	16 ⁰⁰ 17	17 ⁰⁰ 48	5 ⁰⁰ 39	9 ⁰⁰ 48	F 20
S 21	0 34 58	6 ⁰⁰ 4809	19 ⁰⁰ 17	25 ⁰⁰ 16	25 ⁰⁰ 35	18 ⁰⁰ 31	12 ⁰⁰ 52	10 ⁰⁰ 36	7 ⁰⁰ 56	6 ⁰⁰ 31	16 ⁰⁰ 40	16 ⁰⁰ D16	17 ⁰⁰ 45	5 ⁰⁰ 46	9 ⁰⁰ 56	S 21
S 22	0 38 54	7 ⁰⁰ 4724	2 ⁰⁰ 58	27 ⁰⁰ 0	26 ⁰⁰ 45	19 ⁰⁰ 13	12 ⁰⁰ 56	10 ⁰⁰ 44	7 ⁰⁰ 53	6 ⁰⁰ 31	16 ⁰⁰ 41	16 ⁰⁰ 17	17 ⁰⁰ 42	5 ⁰⁰ 52	10 ⁰⁰ 3	S 22
M23	0 42 51	8 ⁰⁰ 4641	16 ⁰⁰ 11	28 ⁰⁰ 46	27 ⁰⁰ 55	19 ⁰⁰ 56	13 ⁰⁰ 1	10 ⁰⁰ 51	7 ⁰⁰ 51	6 ⁰⁰ 30	16 ⁰⁰ 42	16 ⁰⁰ 19	17 ⁰⁰ 39	5 ⁰⁰ 59	10 ⁰⁰ 10	M23
T 24	0 46 47	9 ⁰⁰ 4600	29 ⁰⁰ 1	0 ⁰⁰ 31	29 ⁰⁰ 5	20 ⁰⁰ 38	13 ⁰⁰ 5	10 ⁰⁰ 58	7 ⁰⁰ 48	6 ⁰⁰ 30	16 ⁰⁰ 43	16 ⁰⁰ 20	17 ⁰⁰ 35	6 ⁰⁰ 6	10 ⁰⁰ 18	T 24
W25	0 50 44	10 ⁰⁰ 4522	11 ⁰⁰ 30	2 ⁰⁰ 17	0 ⁰⁰ 15	21 ⁰⁰ 21	13 ⁰⁰ 10	11 ⁰⁰ 6	7 ⁰⁰ 46	6 ⁰⁰ 29	16 ⁰⁰ 44	16 ⁰⁰ R21	17 ⁰⁰ 32	6 ⁰⁰ 12	10 ⁰⁰ 25	W25
T 26	0 54 41	11 ⁰⁰ 4446	23 ⁰⁰ 42	4 ⁰⁰ 2	1 ⁰⁰ 25	22 ⁰⁰ 4	13 ⁰⁰ 15	11 ⁰⁰ 13	7 ⁰⁰ 43	6 ⁰⁰ 29	16 ⁰⁰ 45	16 ⁰⁰ 20	17 ⁰⁰ 29	6 ⁰⁰ 19	10 ⁰⁰ 33	T 26
F 27	0 58 37	12 ⁰⁰ 4412	5 ⁰⁰ 44	5 ⁰⁰ 47	2 ⁰⁰ 35	22 ⁰⁰ 47	13 ⁰⁰ 20	11 ⁰⁰ 20	7 ⁰⁰ 41	6 ⁰⁰ 28	16 ⁰⁰ 47	16 ⁰⁰ 18	17 ⁰⁰ 26	6 ⁰⁰ 26	10 ⁰⁰ 40	F 27
S 28	1 2 34	13 ⁰⁰ 4341	17 ⁰⁰ 38	7 ⁰⁰ 32	3 ⁰⁰ 45	23 ⁰⁰ 30	13 ⁰⁰ 25	11 ⁰⁰ 28	7 ⁰⁰ 39	6 ⁰⁰ 28	16 ⁰⁰ 48	16 ⁰⁰ 14	17 ⁰⁰ 23	6 ⁰⁰ 33	10 ⁰⁰ 48	S 28
S 29	1 6 30	14 ⁰⁰ 4311	29 ⁰⁰ 30	9 ⁰⁰ 17	4 ⁰⁰ 56	24 ⁰⁰ 13	13 ⁰⁰ 31	11 ⁰⁰ 35	7 ⁰⁰ 36	6 ⁰⁰ 28	16 ⁰⁰ 49	16 ⁰⁰ 9	17 ⁰⁰ 20	6 ⁰⁰ 39	10 ⁰⁰ 55	S 29
M30	1 10 27	15 ⁰⁰ 4245	11 ⁰⁰ 21	11 ⁰⁰ 1	6 ⁰⁰ 7	24 ⁰⁰ 56	13 ⁰⁰ 36	11 ⁰⁰ 42	7 ⁰⁰ 34	6 ⁰⁰ 27	16 ⁰⁰ 50	16 ⁰⁰ 16	17 ⁰⁰ 16	6 ⁰⁰ 46	11 ⁰⁰ 16	M30

Delta T = 268.18 sec

Julian Calendar 1 Sept. 1510 == Greg. Calendar 11 Sept. 1510

OCTOBER 1510 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 14 23	16 ⁰⁰ 42'20	23 ⁰⁰ 16	12 ⁰⁰ 44	7 ⁰⁰ 17	25 ⁰⁰ 39	13 ⁰⁰ 42	11 ⁰⁰ 49	7 ⁰⁰ R31	6 ⁰⁰ R27	16 ⁰⁰ 52	15 ⁰⁰ R58	17 ⁰⁰ L13	6 ⁰⁰ 53	11 ⁰⁰ L11	T 1
W 2	1 18 20	17 ⁰⁰ 41'57	5 ⁰⁰ 16	14 ⁰⁰ 27	8 ⁰⁰ 28	26 ⁰⁰ 22	13 ⁰⁰ 48	11 ⁰⁰ 57	7 ⁰⁰ Y29	6 ⁰⁰ 27	16 ⁰⁰ 53	15 ⁰⁰ L53	17 ⁰⁰ 10	6 ⁰⁰ 59	11 ⁰⁰ 18	W 2
T 3	1 22 16	18 ⁰⁰ 41'37	17 ⁰⁰ 24	16 ⁰⁰ 10	9 ⁰⁰ 39	27 ⁰⁰ 6	13 ⁰⁰ 54	12 ⁰⁰ 4	7 ⁰⁰ 27	6 ⁰⁰ 26	16 ⁰⁰ 54	15 ⁰⁰ 49	17 ⁰⁰ 7	7 ⁰⁰ 6	11 ⁰⁰ 26	T 3
F 4	1 26 13	19 ⁰⁰ 41'18	29 ⁰⁰ 39	17 ⁰⁰ 52	10 ⁰⁰ 50	27 ⁰⁰ 49	14 ⁰⁰ 0	12 ⁰⁰ 11	7 ⁰⁰ 24	6 ⁰⁰ 26	16 ⁰⁰ 56	15 ⁰⁰ 47	17 ⁰⁰ 4	7 ⁰⁰ 13	11 ⁰⁰ 34	F 4
S 5	1 30 9	20 ⁰⁰ 41'02	12 ⁰⁰ L5	19 ⁰⁰ 33	12 ⁰⁰ 2	28 ⁰⁰ 33	14 ⁰⁰ 7	12 ⁰⁰ 19	7 ⁰⁰ 22	6 ⁰⁰ 26	16 ⁰⁰ 57	15 ⁰⁰ D46	17 ⁰⁰ 0	7 ⁰⁰ 20	11 ⁰⁰ 42	S 5
S 6	1 34 6	21 ⁰⁰ 40'47	24 ⁰⁰ 41	21 ⁰⁰ 14	13 ⁰⁰ 13	29 ⁰⁰ 17	14 ⁰⁰ 13	12 ⁰⁰ 26	7 ⁰⁰ 19	6 ⁰⁰ 26	16 ⁰⁰ 59	15 ⁰⁰ 46	16 ⁰⁰ 57	7 ⁰⁰ 26	11 ⁰⁰ 50	S 6
M 7	1 38 3	22 ⁰⁰ 40'35	7 ⁰⁰ 29	22 ⁰⁰ 54	14 ⁰⁰ 25	0 ⁰⁰ 0	14 ⁰⁰ 20	12 ⁰⁰ 33	7 ⁰⁰ 17	6 ⁰⁰ 26	17 ⁰⁰ 0	15 ⁰⁰ 47	16 ⁰⁰ 54	7 ⁰⁰ 33	11 ⁰⁰ 57	M 7
T 8	1 41 59	23 ⁰⁰ 40'24	20 ⁰⁰ 32	24 ⁰⁰ 34	15 ⁰⁰ 36	0 ⁰⁰ 44	14 ⁰⁰ 27	12 ⁰⁰ 40	7 ⁰⁰ 15	6 ⁰⁰ 26	17 ⁰⁰ 2	15 ⁰⁰ 48	16 ⁰⁰ 51	7 ⁰⁰ 40	12 ⁰⁰ 5	T 8
W 9	1 45 56	24 ⁰⁰ 40'15	3 ⁰⁰ 50	26 ⁰⁰ 13	16 ⁰⁰ 48	1 ⁰⁰ 28	14 ⁰⁰ 34	12 ⁰⁰ 48	7 ⁰⁰ 13	6 ⁰⁰ D26	17 ⁰⁰ 3	15 ⁰⁰ 50	16 ⁰⁰ 48	7 ⁰⁰ 46	12 ⁰⁰ 13	W 9
T 10	1 49 52	25 ⁰⁰ 40'08	17 ⁰⁰ 25	27 ⁰⁰ 51	18 ⁰⁰ 0	2 ⁰⁰ 12	14 ⁰⁰ 41	12 ⁰⁰ 55	7 ⁰⁰ 10	6 ⁰⁰ 26	17 ⁰⁰ 5	15 ⁰⁰ 51	16 ⁰⁰ 45	7 ⁰⁰ 53	12 ⁰⁰ 21	T 10
F 11	1 53 49	26 ⁰⁰ 40'02	1 ⁰⁰ 18	29 ⁰⁰ 29	19 ⁰⁰ 12	2 ⁰⁰ 56	14 ⁰⁰ 49	13 ⁰⁰ 2	7 ⁰⁰ 8	6 ⁰⁰ 26	17 ⁰⁰ 6	15 ⁰⁰ R51	16 ⁰⁰ 41	8 ⁰⁰ 0	12 ⁰⁰ 29	F 11
S 12	1 57 45	27 ⁰⁰ 39'58	15 ⁰⁰ 28	1 ⁰⁰ L7	20 ⁰⁰ 24	3 ⁰⁰ 41	14 ⁰⁰ 56	13 ⁰⁰ 9	7 ⁰⁰ 6	6 ⁰⁰ 26	17 ⁰⁰ 8	15 ⁰⁰ 50	16 ⁰⁰ 38	8 ⁰⁰ 7	12 ⁰⁰ 37	S 12
S 13	2 1 42	28 ⁰⁰ 39'55	29 ⁰⁰ 54	2 ⁰⁰ 43	21 ⁰⁰ 36	4 ⁰⁰ 25	15 ⁰⁰ 4	13 ⁰⁰ 16	7 ⁰⁰ 4	6 ⁰⁰ 26	17 ⁰⁰ 10	15 ⁰⁰ 49	16 ⁰⁰ 35	8 ⁰⁰ 13	12 ⁰⁰ 45	S 13
M14	2 5 38	29 ⁰⁰ 39'54	14 ⁰⁰ 33	4 ⁰⁰ 20	22 ⁰⁰ 48	5 ⁰⁰ 9	15 ⁰⁰ 12	13 ⁰⁰ 24	7 ⁰⁰ 1	6 ⁰⁰ 26	17 ⁰⁰ 11	15 ⁰⁰ 47	16 ⁰⁰ 32	8 ⁰⁰ 20	12 ⁰⁰ 53	M14
T 15	2 9 35	0 ⁰⁰ 39'55	29 ⁰⁰ 18	5 ⁰⁰ 56	24 ⁰⁰ 0	5 ⁰⁰ 53	15 ⁰⁰ 20	13 ⁰⁰ 31	6 ⁰⁰ 59	6 ⁰⁰ 26	17 ⁰⁰ 13	15 ⁰⁰ 45	16 ⁰⁰ 29	8 ⁰⁰ 27	13 ⁰⁰ 1	T 15
W16	2 13 32	1 ⁰⁰ 39'58	14 ⁰⁰ Y3	7 ⁰⁰ 31	25 ⁰⁰ 13	6 ⁰⁰ 38	15 ⁰⁰ 28	13 ⁰⁰ 38	6 ⁰⁰ 57	6 ⁰⁰ 26	17 ⁰⁰ 15	15 ⁰⁰ 43	16 ⁰⁰ 26	8 ⁰⁰ 33	13 ⁰⁰ 9	W16
T 17	2 17 28	2 ⁰⁰ 40'02	28 ⁰⁰ 41	9 ⁰⁰ 6	26 ⁰⁰ 25	7 ⁰⁰ 22	15 ⁰⁰ 36	13 ⁰⁰ 45	6 ⁰⁰ 55	6 ⁰⁰ 27	17 ⁰⁰ 16	15 ⁰⁰ 42	16 ⁰⁰ 22	8 ⁰⁰ 40	13 ⁰⁰ 17	T 17
F 18	2 21 25	3 ⁰⁰ 40'08	13 ⁰⁰ 85	10 ⁰⁰ 41	27 ⁰⁰ 38	8 ⁰⁰ 7	15 ⁰⁰ 44	13 ⁰⁰ 52	6 ⁰⁰ 53	6 ⁰⁰ 27	17 ⁰⁰ 18	15 ⁰⁰ D41	16 ⁰⁰ 19	8 ⁰⁰ 47	13 ⁰⁰ 25	F 18
S 19	2 25 21	4 ⁰⁰ 40'16	27 ⁰⁰ 9	12 ⁰⁰ 15	28 ⁰⁰ 50	8 ⁰⁰ 52	15 ⁰⁰ 53	13 ⁰⁰ 59	6 ⁰⁰ 51	6 ⁰⁰ 27	17 ⁰⁰ 20	15 ⁰⁰ 41	16 ⁰⁰ 16	8 ⁰⁰ 54	13 ⁰⁰ 33	S 19
S 20	2 29 18	5 ⁰⁰ 40'27	10 ⁰⁰ II50	13 ⁰⁰ 48	0 ⁰⁰ 3	9 ⁰⁰ 36	16 ⁰⁰ 2	14 ⁰⁰ 6	6 ⁰⁰ 49	6 ⁰⁰ 28	17 ⁰⁰ 21	15 ⁰⁰ 42	16 ⁰⁰ 13	9 ⁰⁰ 0	13 ⁰⁰ 41	S 20
M21	2 33 14	6 ⁰⁰ 40'39	24 ⁰⁰ 8	15 ⁰⁰ 22	1 ⁰⁰ 16	10 ⁰⁰ 21	16 ⁰⁰ 10	14 ⁰⁰ 13	6 ⁰⁰ 47	6 ⁰⁰ 28	17 ⁰⁰ 23	15 ⁰⁰ 43	16 ⁰⁰ 10	9 ⁰⁰ 7	13 ⁰⁰ 49	M21
T 22	2 37 11	7 ⁰⁰ 40'53	7 ⁰⁰ 2	16 ⁰⁰ 55	2 ⁰⁰ 29	11 ⁰⁰ 6	16 ⁰⁰ 19	14 ⁰⁰ 20	6 ⁰⁰ 45	6 ⁰⁰ 28	17 ⁰⁰ 25	15 ⁰⁰ 44	16 ⁰⁰ 6	9 ⁰⁰ 14	13 ⁰⁰ 57	T 22
W23	2 41 7	8 ⁰⁰ 41'09	19 ⁰⁰ 36	18 ⁰⁰ 27	3 ⁰⁰ 42	11 ⁰⁰ 51	16 ⁰⁰ 28	14 ⁰⁰ 27	6 ⁰⁰ 43	6 ⁰⁰ 29	17 ⁰⁰ 27	15 ⁰⁰ 45	16 ⁰⁰ 3	9 ⁰⁰ 20	14 ⁰⁰ 5	W23
T 24	2 45 4	9 ⁰⁰ 41'27	1 ⁰⁰ 52	20 ⁰⁰ 0	4 ⁰⁰ 55	12 ⁰⁰ 36	16 ⁰⁰ 37	14 ⁰⁰ 34	6 ⁰⁰ 41	6 ⁰⁰ 29	17 ⁰⁰ 29	15 ⁰⁰ 45	16 ⁰⁰ 0	9 ⁰⁰ 27	14 ⁰⁰ 13	T 24
F 25	2 49 1	10 ⁰⁰ 41'48	13 ⁰⁰ 56	21 ⁰⁰ 32	6 ⁰⁰ 8	13 ⁰⁰ 21	16 ⁰⁰ 47	14 ⁰⁰ 41	6 ⁰⁰ 39	6 ⁰⁰ 30	17 ⁰⁰ 31	15 ⁰⁰ R45	15 ⁰⁰ 57	9 ⁰⁰ 34	14 ⁰⁰ 21	F 25
S 26	2 52 57	11 ⁰⁰ 42'10	25 ⁰⁰ 51	23 ⁰⁰ 3	7 ⁰⁰ 21	14 ⁰⁰ 6	16 ⁰⁰ 56	14 ⁰⁰ 47	6 ⁰⁰ 37	6 ⁰⁰ 30	17 ⁰⁰ 33	15 ⁰⁰ 45	15 ⁰⁰ 54	9 ⁰⁰ 41	14 ⁰⁰ 30	S 26
S 27	2 56 54	12 ⁰⁰ 42'34	7 ⁰⁰ 42	24 ⁰⁰ 34	8 ⁰⁰ 34	14 ⁰⁰ 51	17 ⁰⁰ 6	14 ⁰⁰ 54	6 ⁰⁰ 35	6 ⁰⁰ 31	17 ⁰⁰ 34	15 ⁰⁰ 45	15 ⁰⁰ 51	9 ⁰⁰ 47	14 ⁰⁰ 38	S 27
M28	3 0 50	13 ⁰⁰ 43'00	19 ⁰⁰ 35	26 ⁰⁰ 5	9 ⁰⁰ 48	15 ⁰⁰ 36	17 ⁰⁰ 15	15 ⁰⁰ 1	6 ⁰⁰ 33	6 ⁰⁰ 32	17 ⁰⁰ 36	15 ⁰⁰ 44	15 ⁰⁰ 47	9 ⁰⁰ 54	14 ⁰⁰ 46	M28
T 29	3 4 47	14 ⁰⁰ 43'27	1 ⁰⁰ 32	27 ⁰⁰ 36	11 ⁰⁰ 1	16 ⁰⁰ 22	17 ⁰⁰ 25	15 ⁰⁰ 8	6 ⁰⁰ 32	6 ⁰⁰ 32	17 ⁰⁰ 38	15 ⁰⁰ 44	15 ⁰⁰ 44	10 ⁰⁰ 1	14 ⁰⁰ 54	T 29
W30	3 8 43	15 ⁰⁰ 43'57	13 ⁰⁰ 38	29 ⁰⁰ 6	12 ⁰⁰ 15	17 ⁰⁰ 7	17 ⁰⁰ 35	15 ⁰⁰ 14	6 ⁰⁰ 30	6 ⁰⁰ 33	17 ⁰⁰ 40	15 ⁰⁰ D44	15 ⁰⁰ 41	10 ⁰⁰ 7	15 ⁰⁰ 2	W30
T 31	3 12 40	16 ⁰⁰ L44'29	25 ⁰⁰ 54	0 ⁰⁰ 36	13 ⁰⁰ 28	17 ⁰⁰ 352	17 ⁰⁰ 345	15 ⁰⁰ 21	6 ⁰⁰ Y28	6 ⁰⁰ 34	17 ⁰⁰ 42	15 ⁰⁰ L44	15 ⁰⁰ L38	10 ⁰⁰ 14	15 ⁰⁰ L10	T 31

ASTRODIENST EPHEMERIS for the year 1510

geocentric

NOVEMBER 1510 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	3 16 36	17 ¹⁴ 45'02	8 ¹¹ 24	2 ²⁷ 6	14 ⁴² 42	18 ³⁸ 38	17 ³⁵ 55	15 ²⁷ 27	6 ²⁷ 27	6 ³⁴ 34	17 ⁴⁴ 44	15 ⁴⁴ 44	15 ³⁵ 35	10 ²¹ 21	15 ¹⁸ 18	F 1
S 2	3 20 33	18°45'37	21° 7	3°35	15°55	19°23	18° 5	15°34	6 ²⁵ 25	6°35	17°46	15°R44	15°32	10°28	15°26	S 2
S 3	3 24 30	19°46'13	4 ²⁷ 5	5° 3	17° 9	20° 9	18°16	15°41	6°23	6°36	17°48	15°44	15°28	10°34	15°34	S 3
M 4	3 28 26	20°46'51	17°17	6°32	18°23	20°54	18°26	15°47	6°22	6°37	17°50	15°44	15°25	10°41	15°42	M 4
T 5	3 32 23	21°47'30	0 ³⁴ 3	8° 0	19°37	21°40	18°37	15°53	6°20	6°38	17°52	15°43	15°22	10°48	15°50	T 5
W 6	3 36 19	22°48'10	14°20	9°27	20°51	22°25	18°47	16° 0	6°19	6°39	17°54	15°42	15°19	10°54	15°58	W 6
T 7	3 40 16	23°48'52	28° 9	10°54	22° 5	23°11	18°58	16° 6	6°17	6°39	17°56	15°41	15°16	11° 1	16° 7	T 7
F 8	3 44 12	24°49'35	12 ²² 7	12°20	23°19	23°57	19° 9	16°12	6°16	6°40	17°59	15°41	15°12	11° 8	16°15	F 8
S 9	3 48 9	25°50'19	26°13	13°45	24°33	24°43	19°20	16°19	6°15	6°41	18° 1	15°D40	15° 9	11°15	16°23	S 9
S 10	3 52 5	26°51'03	10 ²⁶ 26	15°10	25°47	25°28	19°31	16°25	6°13	6°42	18° 3	15°41	15° 6	11°21	16°31	S 10
M 11	3 56 2	27°51'49	24°42	16°34	27° 1	26°14	19°42	16°31	6°12	6°44	18° 5	15°41	15° 3	11°28	16°39	M 11
T 12	3 59 59	28°52'36	8 ²⁷ 59	17°56	28°15	27° 0	19°54	16°37	6°11	6°45	18° 7	15°42	15° 0	11°35	16°47	T 12
W 13	4 3 55	29°53'24	23°15	19°18	29°29	27°46	20° 5	16°43	6°10	6°46	18° 9	15°43	14°57	11°41	16°54	W 13
T 14	4 7 52	0 ²⁷ 54'12	7 ²⁵ 25	20°38	0 ⁴³ 43	28°32	20°16	16°49	6° 9	6°47	18°11	15°44	14°53	11°48	17° 2	T 14
F 15	4 11 48	1°55'02	21°25	21°56	1°58	29°18	20°28	16°55	6° 8	6°48	18°13	15°R44	14°50	11°55	17°10	F 15
S 16	4 15 45	2°55'54	5 ¹¹ 12	23°13	3°12	0 ²² 4	20°40	17° 1	6° 7	6°49	18°16	15°43	14°47	12° 1	17°18	S 16
S 17	4 19 41	3°56'46	18°42	24°27	4°26	0°50	20°51	17° 6	6° 6	6°51	18°18	15°42	14°44	12° 8	17°26	S 17
M 18	4 23 38	4°57'39	1 ⁵⁴ 54	25°39	5°41	1°36	21° 3	17°12	6° 5	6°52	18°20	15°39	14°41	12°15	17°34	M 18
T 19	4 27 34	5°58'34	14°47	26°48	6°55	2°22	21°15	17°18	6° 4	6°53	18°22	15°36	14°38	12°22	17°42	T 19
W 20	4 31 31	6°59'30	27°22	27°54	8°10	3° 8	21°27	17°23	6° 3	6°54	18°24	15°33	14°34	12°28	17°50	W 20
T 21	4 35 28	8° 0'27	9 ²⁰ 20	28°57	9°24	3°54	21°39	17°29	6° 2	6°56	18°27	15°30	14°31	12°35	17°57	T 21
F 22	4 39 24	9° 1'25	21°46	29°54	10°39	4°40	21°51	17°34	6° 1	6°57	18°29	15°27	14°28	12°42	18° 5	F 22
S 23	4 43 21	10° 2'24	3 ⁴² 42	0 ³⁴ 47	11°53	5°26	22° 4	17°40	6° 1	6°59	18°31	15°26	14°25	12°48	18°13	S 23
S 24	4 47 17	11° 3'25	15°33	1°35	13° 8	6°12	22°16	17°45	6° 0	7° 0	18°33	15°D26	14°22	12°55	18°20	S 24
M 25	4 51 14	12° 4'27	27°25	2°16	14°23	6°58	22°28	17°50	5°59	7° 2	18°35	15°27	14°18	13° 2	18°28	M 25
T 26	4 55 10	13° 5'29	9 ²³ 23	2°50	15°37	7°45	22°41	17°56	5°59	7° 3	18°38	15°28	14°15	13° 9	18°36	T 26
W 27	4 59 7	14° 6'33	21°30	3°15	16°52	8°31	22°53	18° 1	5°58	7° 5	18°40	15°30	14°12	13°15	18°43	W 27
T 28	5 3 3	15° 7'38	3 ⁵² 52	3°32	18° 7	9°17	23° 6	18° 6	5°58	7° 6	18°42	15°32	14° 9	13°22	18°51	T 28
F 29	5 7 0	16° 8'44	16°31	3°R39	19°22	10° 3	23°19	18°11	5°58	7° 8	18°44	15°R32	14° 6	13°29	18°58	F 29
S 30	5 10 57	17 ²⁷ 27	29 ³⁰ 30	3 ³⁶ 36	20 ³⁶ 36	10 ²⁵ 25	23 ³¹ 31	18 ¹⁶ 16	5 ⁵⁷ 57	7 ²² 22	18 ⁴⁷ 47	15 ³¹ 31	14 ³ 3	13 ²⁵ 25	19 ⁶ 6	S 30

Delta T = 267.81 sec

Julian Calendar 1 Nov. 1510 == Greg. Calendar 11 Nov. 1510

DECEMBER 1510 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 14 53	18 ²⁷ 10'57	12 ²⁷ 49	3°R21	21 ¹¹ 51	11 ²² 36	23 ³⁴ 44	18 ²¹ 21	5°R57	7 ¹¹ 11	18 ²⁷ 49	15°R29	13 ¹¹ 59	13 ⁴² 42	19 ¹¹ 13	S 1
M 2	5 18 50	19°12'06	26°27	2 ³⁵ 55	23° 6	12°22	23°57	18°25	5 ⁵⁷ 57	7°13	18°51	15°R25	13°56	13°49	19°21	M 2
T 3	5 22 46	20°13'14	10 ³² 21	2°17	24°21	13° 8	24°10	18°30	5°56	7°14	18°53	15°19	13°53	13°56	19°28	T 3
W 4	5 26 43	21°14'23	24°27	1°27	25°36	13°55	24°23	18°35	5°56	7°16	18°56	15°13	13°50	14° 2	19°35	W 4
T 5	5 30 39	22°15'32	8 ²² 22	0°28	26°51	14°41	24°36	18°39	5°56	7°18	18°58	15° 8	13°47	14° 9	19°43	T 5
F 6	5 34 36	23°16'42	22°59	29 ²⁷ 19	28° 5	15°27	24°49	18°44	5°D56	7°19	19° 0	15° 3	13°44	14°16	19°50	F 6
S 7	5 38 33	24°17'51	7 ¹⁶ 16	28° 3	29°20	16°14	25° 2	18°48	5°56	7°21	19° 2	15° 0	13°40	14°22	19°57	S 7
S 8	5 42 29	25°19'01	21°28	26°43	0 ²⁷ 35	17° 0	25°16	18°52	5°56	7°23	19° 5	14°D59	13°37	14°29	20° 4	S 8
M 9	5 46 26	26°20'11	5 ³³ 33	25°21	1°50	17°46	25°29	18°56	5°56	7°25	19° 7	14°59	13°34	14°36	20°11	M 9
T 10	5 50 22	27°21'20	19°32	23°59	3° 5	18°33	25°42	19° 1	5°57	7°27	19° 9	15° 0	13°31	14°42	20°18	T 10
W 11	5 54 19	28°22'30	3 ²² 22	22°41	4°20	19°19	25°56	19° 5	5°57	7°29	19°11	15° 1	13°28	14°49	20°25	W 11
T 12	5 58 15	29°23'40	17° 3	21°28	5°35	20° 5	26° 9	19° 9	5°57	7°30	19°13	15°R 2	13°24	14°56	20°32	T 12
F 13	6 2 12	0 ³⁴ 24'50	0 ¹¹ 36	20°24	6°50	20°52	26°22	19°12	5°57	7°32	19°16	15° 1	13°21	15° 3	20°39	F 13
S 14	6 6 8	1°25'59	13°57	19°28	8° 5	21°38	26°36	19°16	5°58	7°34	19°18	14°57	13°18	15° 9	20°46	S 14
S 15	6 10 5	2°27'09	27° 7	18°42	9°20	22°24	26°50	19°20	5°58	7°36	19°20	14°52	13°15	15°16	20°52	S 15
M 16	6 14 2	3°28'19	10 ⁵⁴ 4	18° 7	10°35	23°10	27° 3	19°23	5°59	7°38	19°22	14°44	13°12	15°23	20°59	M 16
T 17	6 17 58	4°29'29	22°47	17°42	11°50	23°57	27°17	19°27	5°59	7°40	19°24	14°34	13° 9	15°29	21° 6	T 17
W 18	6 21 55	5°30'39	5 ¹⁶ 16	17°27	13° 5	24°43	27°31	19°30	6° 0	7°42	19°27	14°24	13° 5	15°36	21°12	W 18
T 19	6 25 51	6°31'49	17°31	17°D22	14°20	25°29	27°44	19°34	6° 1	7°44	19°29	14°15	13° 2	15°43	21°19	T 19
F 20	6 29 48	7°32'59	29°36	17°26	15°35	26°16	27°58	19°37	6° 1	7°46	19°31	14° 7	12°59	15°49	21°25	F 20
S 21	6 33 44	8°34'09	11 ²⁷ 31	17°38	16°50	27° 2	28°12	19°40	6° 2	7°48	19°33	14° 0	12°56	15°56	21°32	S 21
S 22	6 37 41	9°35'19	23°22	17°58	18° 5	27°48	28°26	19°43	6° 3	7°50	19°35	13°56	12°53	16° 3	21°38	S 22
M 23	6 41 37	10°36'30	5 ¹² 12	18°26	19°20	28°34	28°40	19°46	6° 4	7°52	19°37	13°55	12°50	16°10	21°44	M 23
T 24	6 45 34	11°37'40	17° 7	18°59	20°36	29°21	28°54	19°49	6° 5	7°54	19°39	13°D55	12°46	16°16	21°51	T 24
W 25	6 49 31	12°38'50	29°13	19°38	21°51	0 ²⁷ 7	29° 7	19°52	6° 6	7°56	19°42	13°56	12°43	16°23	21°57	W 25
T 26	6 53 27	13°40'01	11 ¹¹ 33	20°22	23° 6	0°53	29°21	19°54	6° 7	7°59	19°44	13°R56	12°40	16°30	22° 3	T 26
F 27	6 57 24	14°41'11	24°21	21°11	24°21	1°39	29°35	19°57	6° 8	8° 1	19°46	13°56	12°37	16°36	22° 9	F 27
S 28	7 1 20	15°42'21	7 ²⁷ 19	22° 3	25°36	2°25	29°49	19°59	6° 9	8° 3	19°48	13°53	12°34	16°43	22°15	S 28
S 29	7 5 17	16°43'31	20°50	23° 0	26°51	3°12	0 ²² 4	20° 2	6°10	8° 5	19°50	13°48	12°30	16°50	22°21	S 29
M 30	7 9 13	17°44'41	4 ³⁴ 46	23°59	28° 6	3°58	0°18	20° 4	6°11	8° 7	19°52	13°40	12°27	16°56	22°26	M 30
T 31	7 13 10	18 ³⁵ 45'50	19 ³ 3	25 ²⁷ 27	29 ²¹ 21	4 ⁴⁴ 44	0 ²² 32	20 ¹⁶ 16	6 ¹² 12	8 ²² 22	19 ⁵⁴ 54	13 ³⁰ 30	12 ²⁴ 24	17 ²⁷ 27	22 ³² 32	T 31

Delta T = 267.62 sec

Julian Calendar