



# Astrodienst Ephemeris Tables for the year 1514

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 1514

## geocentric

JANUARY 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	7 18 10	20°3'17	11°59	28°3'7	13°53	24°50	0°52	23°23	18°6	14°36	26°14	12°D31	14°18	19°16	26°1	S 1
M 2	7 22 7	21°4'23	24°11	29°49	15°6	25°30	0°55	23°28	18°7	14°39	26°16	12°32	14°15	19°22	26°7	M 2
T 3	7 26 3	22°5'29	6°38	18°32	16°19	26°9	0°59	23°33	18°8	14°41	26°18	12°33	14°12	19°29	26°14	T 3
W 4	7 30 0	23°6'34	19°24	3°14	17°32	26°48	1°2	23°37	18°8	14°43	26°20	12°R34	14°9	19°36	26°20	W 4
T 5	7 33 56	24°7'38	2°34	4°56	18°46	27°27	1°6	23°42	18°9	14°45	26°22	12°33	14°6	19°42	26°26	T 5
F 6	7 37 53	25°8'41	16°11	6°38	19°59	28°7	1°10	23°47	18°10	14°47	26°24	12°31	14°2	19°49	26°32	F 6
S 7	7 41 49	26°9'43	0°16	8°20	21°13	28°46	1°14	23°51	18°11	14°49	26°26	12°27	13°59	19°56	26°38	S 7
S 8	7 45 46	27°10'45	14°50	10°2	22°26	29°25	1°19	23°56	18°12	14°52	26°28	12°21	13°56	20°3	26°44	S 8
M 9	7 49 43	28°11'45	29°47	11°42	23°40	0°4	1°24	24°0	18°14	14°54	26°30	12°15	13°53	20°9	26°49	M 9
T 10	7 53 39	29°12'44	15°0	13°22	24°53	0°44	1°28	24°4	18°15	14°56	26°32	12°8	13°50	20°16	26°55	T 10
W 11	7 57 36	0°13'42	0°19	15°1	26°7	1°23	1°33	24°8	18°16	14°58	26°34	12°2	13°47	20°23	27°1	W 11
T 12	8 1 32	1°14'39	15°32	16°37	27°20	2°2	1°39	24°12	18°17	15°0	26°36	11°57	13°43	20°29	27°7	T 12
F 13	8 5 29	2°15'35	0°30	18°12	28°34	2°41	1°44	24°16	18°19	15°3	26°37	11°55	13°40	20°36	27°13	F 13
S 14	8 9 25	3°16'30	15°5	19°45	29°47	3°21	1°49	24°20	18°20	15°5	26°39	11°D34	13°37	20°43	27°18	S 14
S 15	8 13 22	4°17'24	29°13	21°14	1°3	4°0	1°55	24°24	18°21	15°7	26°41	11°55	13°34	20°49	27°24	S 15
M 16	8 17 18	5°18'18	12°53	22°41	2°15	4°39	2°1	24°28	18°23	15°9	26°43	11°57	13°31	20°56	27°30	M 16
T 17	8 21 15	6°19'10	26°6	24°2	3°29	5°18	2°7	24°32	18°24	15°12	26°45	11°58	13°28	21°3	27°35	T 17
W 18	8 25 12	7°20'02	8°15	25°20	4°42	5°58	2°13	24°35	18°26	15°14	26°46	11°R59	13°24	21°10	27°41	W 18
T 19	8 29 8	8°20'53	21°25	26°31	5°56	6°37	2°20	24°39	18°27	15°16	26°48	11°58	13°21	21°16	27°46	T 19
F 20	8 33 5	9°21'43	3°40	27°37	7°10	7°16	2°26	24°42	18°29	15°18	26°50	11°55	13°18	21°23	27°52	F 20
S 21	8 37 1	10°22'32	15°42	28°35	8°24	7°56	2°33	24°46	18°31	15°21	26°52	11°51	13°15	21°30	27°57	S 21
S 22	8 40 58	11°23'21	27°38	29°25	9°37	8°35	2°40	24°49	18°33	15°23	26°53	11°46	13°12	21°36	28°2	S 22
M 23	8 44 54	12°24'08	9°29	0°37	10°51	9°14	2°47	24°52	18°34	15°25	26°55	11°41	13°8	21°43	28°7	M 23
T 24	8 48 51	13°24'53	21°19	0°40	12°5	9°53	2°54	24°55	18°36	15°27	26°57	11°35	13°5	21°50	28°13	T 24
W 25	8 52 47	14°25'38	3°9	1°3	13°19	10°33	3°1	24°58	18°38	15°30	26°58	11°30	13°2	21°56	28°18	W 25
T 26	8 56 44	15°26'21	15°3	1°15	14°33	11°12	3°9	25°1	18°40	15°32	27°0	11°27	12°59	22°3	28°23	T 26
F 27	9 0 41	16°27'03	27°0	1°R17	15°47	11°51	3°16	25°4	18°42	15°34	27°1	11°25	12°56	22°10	28°28	F 27
S 28	9 4 37	17°27'43	9°4	1°8	17°1	12°31	3°24	25°7	18°44	15°37	27°3	11°D24	12°53	22°16	28°33	S 28
S 29	9 8 34	18°28'22	21°17	0°49	18°15	13°10	3°32	25°9	18°46	15°39	27°5	11°24	12°49	22°23	28°38	S 29
M 30	9 12 30	19°28'59	3°39	0°20	19°28	13°49	3°40	25°12	18°48	15°41	27°6	11°25	12°46	22°30	28°43	M 30
T 31	9 16 27	20°29'34	16°15	29°41	20°42	14°28	3°48	25°14	18°50	15°43	27°8	11°27	12°43	22°37	28°48	T 31

Delta T = 260.71 sec

Julian Calendar 1 Jan. 1514 == Greg. Calendar 11 Jan. 1514

FEBRUARY 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	9 20 23	21°30'08	29°7	28°R54	21°56	15°8	3°57	25°16	18°52	15°46	27°9	11°28	12°40	22°34	28°52	W 1
T 2	9 24 20	22°30'40	12°17	28°0	23°10	15°47	4°5	25°19	18°55	15°48	27°10	11°29	12°37	22°50	28°57	T 2
F 3	9 28 16	23°31'10	25°48	27°0	24°24	16°26	4°14	25°21	18°57	15°50	27°12	11°R30	12°34	22°57	29°2	F 3
S 4	9 32 13	24°31'38	9°41	25°56	25°38	17°5	4°23	25°23	18°59	15°53	27°13	11°29	12°30	23°3	29°6	S 4
S 5	9 36 9	25°32'04	23°57	24°50	26°52	17°44	4°32	25°25	19°1	15°55	27°15	11°28	12°27	23°10	29°11	S 5
M 6	9 40 6	26°32'28	8°34	23°44	28°6	18°24	4°41	25°27	19°4	15°57	27°16	11°26	12°24	23°17	29°15	M 6
T 7	9 44 3	27°32'51	23°26	22°38	29°20	19°3	4°50	25°28	19°6	15°59	27°17	11°24	12°21	23°23	29°19	T 7
W 8	9 47 59	28°33'11	8°12	21°35	0°34	19°42	4°59	25°30	19°9	16°2	27°19	11°23	12°18	23°30	29°24	W 8
T 9	9 51 56	29°33'29	23°28	20°36	1°48	20°21	5°9	25°32	19°11	16°4	27°20	11°22	12°14	23°37	29°28	T 9
F 10	9 55 52	0°33'46	8°20	19°42	3°2	21°0	5°18	25°33	19°14	16°6	27°21	11°D21	12°11	23°43	29°32	F 10
S 11	9 59 49	1°34'01	22°56	18°53	4°16	21°40	5°28	25°34	19°16	16°8	27°22	11°21	12°8	23°50	29°36	S 11
S 12	10 3 45	2°34'14	7°10	18°11	5°30	22°19	5°38	25°36	19°19	16°10	27°23	11°22	12°5	23°57	29°40	S 12
M 13	10 7 42	3°34'26	20°59	17°36	6°44	22°58	5°47	25°37	19°21	16°13	27°24	11°23	12°2	24°3	29°44	M 13
T 14	10 11 38	4°34'36	4°11	17°8	7°58	23°37	5°58	25°38	19°24	16°15	27°26	11°23	11°59	24°10	29°48	T 14
W 15	10 15 35	5°34'45	17°19	16°47	9°12	24°16	6°8	25°39	19°27	16°17	27°27	11°24	11°55	24°17	29°52	W 15
T 16	10 19 32	6°34'52	29°54	16°33	10°26	24°55	6°18	25°40	19°29	16°19	27°28	11°24	11°52	24°24	29°55	T 16
F 17	10 23 28	7°34'57	12°11	16°25	11°40	25°35	6°28	25°40	19°32	16°21	27°29	11°R24	11°49	24°30	29°59	F 17
S 18	10 27 25	8°35'01	24°15	16°D25	12°54	26°14	6°39	25°41	19°35	16°23	27°30	11°24	11°46	24°37	0°3	S 18
S 19	10 31 21	9°35'03	6°10	16°30	14°8	26°53	6°49	25°42	19°38	16°26	27°31	11°24	11°43	24°44	0°6	S 19
M 20	10 35 18	10°35'03	18°0	16°41	15°22	27°32	7°0	25°42	19°41	16°28	27°32	11°24	11°39	24°50	0°10	M 20
T 21	10 39 14	11°35'02	29°49	16°59	16°36	28°11	7°11	25°42	19°43	16°30	27°33	11°D24	11°36	24°57	0°13	T 21
W 22	10 43 11	12°34'59	11°42	17°21	17°50	28°50	7°22	25°43	19°46	16°32	27°33	11°24	11°33	25°4	0°16	W 22
T 23	10 47 7	13°34'54	23°40	17°48	19°5	29°29	7°33	25°43	19°49	16°34	27°34	11°24	11°30	25°10	0°19	T 23
F 24	10 51 4	14°34'48	5°46	18°20	20°19	0°8	7°44	25°R43	19°52	16°36	27°35	11°R24	11°27	25°17	0°22	F 24
S 25	10 55 1	15°34'39	18°3	18°57	21°33	0°47	7°55	25°43	19°55	16°38	27°36	11°24	11°24	25°24	0°25	S 25
S 26	10 58 57	16°34'28	0°32	19°37	22°47	1°26	8°6	25°42	19°58	16°40	27°37	11°24	11°20	25°30	0°28	S 26
M 27	11 2 54	17°34'15	13°13	20°21	24°1	2°5	8°18	25°42	20°1	16°42	27°37	11°23	11°17	25°37	0°31	M 27
T 28	11 6 50	18°34'00	26°7	21°9	25°15	2°44	8°29	25°42	20°4	16°44	27°38	11°22	11°14	25°34	0°34	T 28

Delta T = 260.52 sec

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1514

## geocentric

MARCH 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	11 10 47	19°33'43	9°8'16	22°28'0	26°28'29	3°23'23	8°41'8	25°R41	20°Y 7	16°46'16	27°39'27	11°R21	11°11'11	25°35'50	0°37'03	W 1
T 2	11 14 43	20°33'24	22°38'18	22°55'27	27°43'40	4°2'8	8°52'25	25°M41	20°10'16	16°48'27	27°39'11	11°20'11	11°8'25	25°57'00	0°39'00	T 2
F 3	11 18 40	21°33'02	6°II 15	23°52'28	28°57'44	4°1'9	9°4'25	25°40'20	13'16	50'27	40'11	11°19'11	11°5'26	26°4'00	0°42'00	F 3
S 4	11 22 36	22°32'39	20°7	24°52'00	0°X 11	5°20'9	16'25	39'20	17'16	52'27	40'27	11°D19	11°1'26	26°11'00	0°44'00	S 4
S 5	11 26 33	23°32'13	4°12	25°54'12	1°25'59	5°59'9	28'25	38'20	20'20	54'27	41'11	11°19'10	10°58'26	26°17'00	0°47'00	S 5
M 6	11 30 30	24°31'44	18°30	26°59'23	2°39'6	6°38'9	40'25	37'20	23'20	56'27	41'11	11°20'10	10°55'26	26°24'00	0°49'00	M 6
T 7	11 34 26	25°31'13	2°12	28°7'3	3°53'7	7°17'9	52'25	36'20	26'16	58'27	42'11	11°21'10	10°52'26	26°31'00	0°51'00	T 7
W 8	11 38 23	26°30'40	17°31	29°17'5	7°55'10	4'25	53'20	29'20	29'17	0'27	42'11	11°22'10	10°49'26	26°37'00	0°53'00	W 8
T 9	11 42 19	27°30'04	2°11	0°X 28	6°21'8	8°34'10	16'25	34'20	32'17	2'27	43'11	11°23'10	10°45'26	26°44'00	0°55'00	T 9
F 10	11 46 16	28°29'27	16°37	1°42'7	7°35'9	9°13'10	28'25	33'20	36'17	3'27	43'11	11°R23	10°42'26	26°51'00	0°57'00	F 10
S 11	11 50 12	29°28'47	0°15	2°58'8	8°49'9	9°52'10	40'25	31'20	39'17	5'27	44'11	11°22'10	10°39'26	26°57'00	0°59'00	S 11
S 12	11 54 9	0°Y 28'05	15°3	4°16'10	10°3'10	10°30'10	53'25	30'20	42'17	7'27	44'11	11°20'10	10°36'27	27°4'1	1°1'00	S 12
M13	11 58 5	1°27'21	28°48	5°35'11	11°17'11	11°9'11	5'25	28'20	45'17	9'27	44'11	11°18'10	10°33'27	27°11'1	1°2'00	M13
T 14	12 2 2	2°26'35	12°12	6°57'12	12°31'11	11°48'11	18'25	26'20	49'17	11'27	44'11	11°15'10	10°30'27	27°17'1	1°4'00	T 14
W15	12 5 58	3°25'47	25°12	8°20'13	13°45'12	26'11'30	25'25	24'20	52'17	12'27	45'11	11°12'10	10°26'27	27°24'1	1°6'00	W15
T 16	12 9 55	4°24'58	7°12	9°44'14	14°59'13	5'11'43	25'22'20	55'17	14'27	45'11	9'10	10°23'27	10°23'27	27°31'1	1°7'00	T 16
F 17	12 13 52	5°24'06	20°13	11°11'16	16°13'13	44'11'56	25'20'20	59'17	16'27	45'11	7'10	10°20'27	10°20'27	27°37'1	1°8'00	F 17
S 18	12 17 48	6°23'13	2°31	12°39'17	27'14'22	12°9'25	18'25	18'21	2'17	17'27	45'11	11°D 6	10°17'27	27°44'1	1°10'00	S 18
S 19	12 21 45	7°22'18	14°15	14°8'18	18°41'15	1°12'12	25'16'21	6'17	19'27	45'11	6'10	10°14'27	10°14'27	27°51'1	1°11'00	S 19
M20	12 25 41	8°21'22	26°6	15°40'19	19°55'15	39'12	25'14'21	9'17	21'17	21'45	11'7	10°11'27	10°11'27	27°57'1	1°12'00	M20
T 21	12 29 38	9°20'23	7°12	17°12'21	21°9'16	18'12'47	25'12'21	12'17	22'27	45'11	9'10	10°7'28	10°7'28	28°4'1	1°13'00	T 21
W22	12 33 34	10°19'23	19°51	18°47'22	22°23'16	56'13'0	25'9'21	16'17	24'27	45'11	10'10	10°4'28	10°4'28	28°11'1	1°14'00	W22
T 23	12 37 31	11°18'20	1°X 53	20°22'23	23°37'17	34'13'13	25'7'21	19'17	25'27	45'11	12'10	10°1'28	10°1'28	28°17'1	1°14'00	T 23
F 24	12 41 27	12°17'16	14°8	22°0'24	24°51'18	13'13'27	25'4'21	22'17	27'27	45'11	11°R12	9°58'28	9°58'28	28°24'1	1°15'00	F 24
S 25	12 45 24	13°16'10	26°38	23°39'26	5'18'51	13°40'25	1'21'26	12'17	28'27	45'11	11'11	9°55'28	9°55'28	28°31'1	1°16'00	S 25
S 26	12 49 21	14°15'02	9°Y 24	25°19'27	27°19'19	29'13'53	24°59'21	29'17	30'27	45'11	8'9	9°51'28	9°51'28	28°37'1	1°16'00	S 26
M27	12 53 17	15°13'52	22°26	27°1'28	28°33'20	7'14'6	24°56'21	33'17	31'27	45'11	4'9	9°48'28	9°48'28	28°44'1	1°17'00	M27
T 28	12 57 14	16°12'40	5°15	28°44'29	29°47'20	45'14'20	24°53'21	36'17	32'27	44'10	59'9	9°45'28	9°45'28	28°51'1	1°17'00	T 28
W29	13 1 10	17°11'26	19°18	0°Y 29	1°Y 1	21'24'14	33'24'50	40'17	34'27	44'10	53'9	9°42'28	9°42'28	28°58'1	1°17'00	W29
T 30	13 5 7	18°10'10	3°II 4	2°16'2	2°14'22	2'14'46	24°47'21	43'17	35'27	44'10	47'9	9°39'29	9°39'29	29°4'1	1°17'00	T 30
F 31	13 9 3	19°Y 8'52	16°II 59	4°Y 4	3°Y 28	22°34'15	5'0'24	44'21	Y 46	17°37	27°44	10°42	9°36	29°31	1°R17	F 31

Delta T = 260.34 sec

Julian Calendar 1 March 1514 == Greg. Calendar 11 March 1514

APRIL 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	13 13 0	20°Y 7'31	1°12	5°Y 54	4°Y 42	23°317	15°13	24°R40	21°Y50	17°38	27°R43	10°R39	9°32	29°318	1°R17	S 1
S 2	13 16 56	21°6'08	15°7	7°45'5	5°56'23	55'15'27	24°137	21°53'17	39'27	43'10	D38	9°29'29	29°24'1	1°317	1°17'00	S 2
M 3	13 20 53	22°4'43	29°17	9°38'7	7°10'24	33'15'40	24°34'21	57'17	40'27	43'10	38'9	9°26'29	29°31'1	1°17'00	1°17'00	M 3
T 4	13 24 50	23°3'16	13°12	11°33'8	8°24'25	11'15'54	24°30'22	0'17	42'17	42'10	39'9	9°23'29	29°38'1	1°17'00	1°17'00	T 4
W 5	13 28 46	24°1'46	27°38	13°29'9	9°38'25	49'16'8	24°27'22	4'17	43'27	42'10	40'9	9°20'29	29°44'1	1°16'00	1°16'00	W 5
T 6	13 32 43	25°0'14	11°11	15°26'10	10°52'26	26'16'21	24°23'22	7'17	44'27	41'10	41'9	9°16'29	29°51'1	1°16'00	1°16'00	T 6
F 7	13 36 39	25°58'40	25°50	17°25'12	12°5'27	4'16'35	24°20'22	11'17	45'27	41'10	40'9	9°13'29	29°58'1	1°15'00	1°15'00	F 7
S 8	13 40 36	26°57'04	9°15	19°26'13	13°19'27	41'16'49	24°16'22	14'17	46'27	40'10	37'9	9°10'00	29°58'1	1°15'00	1°15'00	S 8
S 9	13 44 32	27°55'26	23°29	21°28'14	14°33'28	19'17'2	24°12'22	17'17	47'27	40'10	31'9	9°7'00	11'14	1°14'00	1°14'00	S 9
M10	13 48 29	28°53'46	6°11	23°32'15	15°47'28	56'17'16	24°8'22	21'17	48'27	39'10	24'9	9°4'00	18'13	1°13'00	1°13'00	M10
T 11	13 52 25	29°52'05	20°12	25°37'17	1°1'29	34'17'30	24°5'22	24'17	49'27	38'10	16'9	9°1'00	24'12	1°12'00	1°12'00	T 11
W12	13 56 22	0°X 50'21	3°12	27°43'18	18°15'00	11'17'44	24°1'22	28'17	50'27	38'10	7'9	8°57'00	31'11	1°11'00	1°11'00	W12
T 13	14 0 18	1°48'36	15°45	29°50'19	28'5'0	48'17'58	23°57'22	31'17	51'27	37'9	59'8	8°54'00	38'10	1°10'00	1°10'00	T 13
F 14	14 4 15	2°46'50	28°5	1°X 58	20°42'1	25'18'12	23°53'22	35'17	52'27	36'9	52'8	8°51'00	44'9	1°9'00	1°9'00	F 14
S 15	14 8 12	3°45'02	10°12	4°7	21°56'2	18°26'23	49'22	38'17	53'27	36'9	47'8	8°48'00	51'9	1°8'00	1°8'00	S 15
S 16	14 12 8	4°43'12	22°8	6°16'23	10'2'39	18°39'23	45'22	41'17	54'27	35'9	44'8	8°45'00	58'9	1°6'00	1°6'00	S 16
M17	14 16 5	5°41'21	3°15	8°26'24	24°24'3	16'18'53	23°41'22	45'17	55'27	34'9	D43	8°42'1	5'10	1°5'00	1°5'00	M17
T 18	14 20 1	6°39'28	15°49	10°35'25	3°53'19	7'23'37	22°48'17	55'27	33'17	55'27	33'9	8°38'11	1'4	1°4'00	1°4'00	T 18
W19	14 23 58	7°37'34	27°44	12°45'26	5°1'43	30'19'21	23°32'22	52'17	56'27	33'9	44'8	8°35'18	1'2	1°2'00	1°2'00	W19
T 20	14 27 54	8°35'39	9°12	14°54'28	5°6'19	35'19'35	23°28'22	55'17	57'27	32'9	45'8	8°32'12	24'0	1°0'00	1°0'00	T 20
F 21	14 31 51	9°33'42	22°9	17°2'29	19°19'5	43'19'49	23°24'22	58'17	58'27	31'9	44'8	8°29'13	31'0	0°59'00	0°59'00	F 21
S 22	14 35 47	10°31'43	4°Y 47	19°9'0	0°X 33	6°19'20	23°20'23	2'17	58'27	30'9	41'8	8°26'13	38'0	0°57'00	0°57'00	S 22
S 23	14 39 44	11°29'43	17°47	21°15'1	1°46'6	55'20'18	23°15'23	5'17	59'27	29'9	36'8	8°22'14	44'0	0°55'00	0°55'00	S 23
M24	14 43 41	12°27'42	1°X 8	23°19'3	0'7'32	20°32'23	11'23	8'17	59'27	28'9	28'8	8°19'15	51'0	0°53'00	0°53'00	M24
T 25	14 47 37	13°25'39	14°50	25°21'4	1°14'8	8'20'46	23°7'23	11'18	0'18	0'27	27'9	8°16'15	58'0	0°51'00	0°51'00	T 25
W26	14 51 34	14°23'35	28°49	27°21'5	2°28'8	44'21'0	23°2'23	15'18	0'27	26'9	8'8	8°13'2	4'0	0°49'00	0°49'00	W26
T 27	14 55 30	15°21'29	13°II 2	29°19'6	4°1'9	20'21'14	22°58'23	18'1	27'25	58'8	10'8	8°10'21	11'0	0°47'00	0°47'00	T 27
F 28	14 59 27	16°19'21	27°22	1°II 14	7°55'9	55'21'28	22°53'23	21'18	1'27	24'8	50'8	8°7'21	18'0	0°44'00	0°44'00	F 28
S 29	15 3 23	17°17'12	11°12	3°7	9°9	10°31'21	42'22	49'23	24'18	2'27	23'8	8°43'3	24'0	0°42'00	0°42'00	S 29
S 30	15 7 20	18°15'01	26°12	4°II 56	10°X 23	11°7	21°56	22°14	Y 28	18°2	27°22	8°39	8°0	2°31	0°40	S 30

Delta T = 260.15 sec

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1514

## geocentric

MAY 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	15 11 16	19♌12'48	10♏18	6♊43	11♋36	11♋42	22♈10	22♈R40	23♎31	18♋3	27♈R21	8♈R37	7♎57	2♋38	0♈R37	M 1
T 2	15 15 13	20°10'34	24°24	8°26	12°50	12°17	22°25	22♎36	23°34	18°3	27♎20	8°D37	7°54	2°44	0♋35	T 2
W 3	15 19 10	21° 8'18	8♎22	10° 7	14° 4	12°52	22°39	22°31	23°37	18°3	27°18	8°R37	7°51	2°51	0°32	W 3
T 4	15 23 6	22° 6'00	22°11	11°44	15°18	13°27	22°53	22°27	23°40	18°4	27°17	8♎37	7°48	2°58	0°29	T 4
F 5	15 27 3	23° 3'40	5♌51	13°18	16°31	14° 2	23° 7	22°22	23°43	18°4	27°16	8°34	7°44	3° 4	0°27	F 5
S 6	15 30 59	24° 1'19	19°22	14°49	17°45	14°37	23°21	22°18	23°47	18°4	27°15	8°29	7°41	3°11	0°24	S 6
S 7	15 34 56	24°58'56	2♎42	16°16	18°59	15°12	23°35	22°13	23°50	18°4	27°14	8°21	7°38	3°18	0°21	S 7
M 8	15 38 52	25°56'32	15°50	17°40	20°12	15°46	23°49	22° 9	23°53	18°4	27°12	8°11	7°35	3°24	0°18	M 8
T 9	15 42 49	26°54'07	28°45	19° 0	21°26	16°20	24° 3	22° 4	23°56	18°4	27°11	7°59	7°32	3°31	0°15	T 9
W10	15 46 45	27°51'41	11♎27	20°17	22°40	16°54	24°17	22° 0	23°59	18°4	27°10	7°46	7°28	3°38	0°12	W10
T 11	15 50 42	28°49'13	23°55	21°31	23°53	17°28	24°32	21°55	24° 2	18°5	27° 9	7°34	7°25	3°44	0° 9	T 11
F 12	15 54 39	29°46'45	6♋9	22°41	25° 7	18° 2	24°46	21°51	24° 5	18°R 5	27° 7	7°23	7°22	3°51	0° 6	F 12
S 13	15 58 35	0♊44'15	18°12	23°47	26°21	18°36	25° 0	21°47	24° 8	18°5	27° 6	7°14	7°19	3°58	0° 3	S 13
S 14	16 2 32	1°41'45	0♋6	24°50	27°34	19° 9	25°14	21°42	24°10	18°4	27° 5	7° 9	7°16	4° 4	29♎59	S 14
M15	16 6 28	2°39'14	11°56	25°49	28°48	19°43	25°28	21°38	24°13	18°4	27° 3	7° 5	7°13	4°11	29°56	M15
T 16	16 10 25	3°36'42	23°45	26°44	0♊2	20°16	25°42	21°34	24°16	18°4	27° 2	7° 4	7° 9	4°18	29°53	T 16
W17	16 14 21	4°34'09	5♎40	27°35	1°16	20°49	25°56	21°29	24°19	18°4	27° 0	7° 4	7° 6	4°24	29°50	W17
T 18	16 18 18	5°31'35	17°45	28°22	2°29	21°21	26°10	21°25	24°22	18°4	26°59	7° 4	7° 3	4°31	29°46	T 18
F 19	16 22 14	6°29'01	0♎5	29° 5	3°43	21°54	26°24	21°21	24°25	18°4	26°58	7° 3	7° 0	4°38	29°43	F 19
S 20	16 26 11	7°26'26	12°46	29°44	4°57	22°26	26°38	21°17	24°27	18°3	26°56	6°59	6°57	4°44	29°39	S 20
S 21	16 30 8	8°23'50	25°52	0♋19	6°10	22°58	26°52	21°12	24°30	18°3	26°55	6°54	6°53	4°51	29°36	S 21
M22	16 34 4	9°21'14	9♋23	0°49	7°24	23°30	27° 6	21° 8	24°33	18°3	26°53	6°45	6°50	4°58	29°32	M22
T 23	16 38 1	10°18'37	23°21	1°15	8°38	24° 2	27°20	21° 4	24°35	18°3	26°52	6°35	6°47	5° 4	29°28	T 23
W24	16 41 57	11°15'59	7♊40	1°36	9°51	24°33	27°34	21° 0	24°38	18°2	26°50	6°24	6°44	5°11	29°25	W24
T 25	16 45 54	12°13'21	22°16	1°53	11° 5	25° 4	27°47	20°56	24°41	18°2	26°49	6°13	6°41	5°18	29°21	T 25
F 26	16 49 50	13°10'42	7♋2	2° 6	12°19	25°35	28° 1	20°52	24°43	18°1	26°47	6° 3	6°38	5°24	29°17	F 26
S 27	16 53 47	14° 8'02	21°48	2°14	13°33	26° 6	28°15	20°48	24°46	18°1	26°46	5°55	6°34	5°31	29°14	S 27
S 28	16 57 43	15° 5'21	6♏28	2°R17	14°46	26°36	28°29	20°44	24°48	18°0	26°44	5°50	6°31	5°38	29°10	S 28
M29	17 1 40	16° 2'39	20°56	2°16	16° 0	27° 6	28°43	20°40	24°51	18°0	26°43	5°48	6°28	5°44	29° 6	M29
T 30	17 5 37	16°59'56	5♎9	2°10	17°14	27°36	28°56	20°37	24°53	17°59	26°41	5°D48	6°25	5°51	29° 2	T 30
W31	17 9 33	17°57'12	19♎6	2°50	18♊27	28°55	29♋10	20♎33	24°Y55	17°59	26°40	5°R48	6°22	5°58	28°58	W31

Delta T = 259.97 sec

Julian Calendar 1 May 1514 == Greg. Calendar 11 May 1514

JUNE 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	17 13 30	18♊54'27	2♌47	1°R46	19♊41	28°35	29♋24	20°R29	24°Y58	17°R58	26°R38	5°R47	6♎19	6♋4	28°R54	T 1
F 2	17 17 26	19°51'42	16°13	19°28	20°55	29° 3	29°37	20♎26	25° 0	17°55	26°37	5♎45	6°15	6°11	28°50	F 2
S 3	17 21 23	20°48'56	29°26	1° 6	22° 8	29°32	29°51	20°22	25° 2	17°57	26°35	5°40	6°12	6°18	28°47	S 3
S 4	17 25 19	21°46'09	12♎26	0°41	23°22	0♎0	0♊5	20°19	25° 5	17°56	26°34	5°32	6° 9	6°24	28°43	S 4
M 5	17 29 16	22°43'21	25°14	0°13	24°36	0°28	0°18	20°15	25° 7	17°55	26°32	5°23	6° 6	6°31	28°39	M 5
T 6	17 33 12	23°40'33	7♎51	29♊42	25°50	0°56	0°32	20°12	25° 9	17°54	26°31	5°11	6° 3	6°38	28°35	T 6
W 7	17 37 9	24°37'45	20°16	29°10	27° 3	1°23	0°45	20° 9	25°11	17°54	26°29	4°59	5°59	6°44	28°31	W 7
T 8	17 41 6	25°34'56	2♋31	28°36	28°17	1°50	0°59	20° 5	25°13	17°53	26°28	4°47	5°56	6°51	28°27	T 8
F 9	17 45 2	26°32'07	14°37	28° 1	29°31	2°17	1°12	20° 2	25°15	17°52	26°26	4°37	5°53	6°58	28°23	F 9
S 10	17 48 59	27°29'18	26°34	27°25	0♋44	2°43	1°25	19°59	25°17	17°51	26°25	4°29	5°50	7° 4	28°19	S 10
S 11	17 52 55	28°26'28	8♋24	26°50	1°58	3° 9	1°39	19°56	25°19	17°50	26°23	4°23	5°47	7°11	28°15	S 11
M12	17 56 52	29°23'39	20°12	26°16	3°12	3°35	1°52	19°53	25°21	17°49	26°22	4°20	5°44	7°18	28°11	M12
T 13	18 0 48	0♋20'49	2♎1	25°43	4°25	4° 0	2° 5	19°50	25°23	17°48	26°20	4°D19	5°40	7°24	28° 7	T 13
W14	18 4 45	1°18'00	13°54	25°13	5°39	4°24	2°18	19°47	25°25	17°47	26°18	4°19	5°37	7°31	28° 3	W14
T 15	18 8 41	2°15'10	25°58	24°45	6°53	4°49	2°31	19°45	25°27	17°46	26°17	4°20	5°34	7°38	27°59	T 15
F 16	18 12 38	3°12'21	8♎18	24°20	8° 7	5°13	2°44	19°42	25°28	17°45	26°15	4°R20	5°31	7°44	27°55	F 16
S 17	18 16 35	4° 9'32	20°57	23°58	9°20	5°36	2°57	19°40	25°30	17°44	26°14	4°18	5°28	7°51	27°51	S 17
S 18	18 20 31	5° 6'44	4♋2	23°41	10°34	5°59	3°10	19°37	25°32	17°43	26°12	4°15	5°25	7°58	27°47	S 18
M19	18 24 28	6° 3'55	17°35	23°27	11°48	6°21	3°23	19°35	25°34	17°42	26°11	4°10	5°21	8° 4	27°44	M19
T 20	18 28 24	7° 1'07	1♊36	23°18	13° 2	6°43	3°36	19°32	25°35	17°41	26° 9	4° 2	5°18	8°11	27°40	T 20
W21	18 32 21	7°58'20	16° 4	23°D14	14°16	7° 5	3°49	19°30	25°37	17°40	26° 8	3°54	5°15	8°18	27°36	W21
T 22	18 36 17	8°55'32	0♋52	23°15	15°29	7°26	4° 2	19°28	25°38	17°39	26° 6	3°45	5°12	8°24	27°32	T 22
F 23	18 40 14	9°52'45	15°54	23°21	16°43	7°46	4°14	19°26	25°40	17°38	26° 5	3°38	5° 9	8°31	27°28	F 23
S 24	18 44 11	10°49'58	1♏0	23°32	17°57	8° 6	4°27	19°24	25°41	17°36	26° 3	3°33	5° 5	8°38	27°24	S 24
S 25	18 48 7	11°47'11	15°59	23°49	19°11	8°26	4°39	19°22	25°42	17°35	26° 2	3°29	5° 2	8°44	27°21	S 25
M26	18 52 4	12°44'24	0♎45	24°11	20°24	8°45	4°52	19°20	25°44	17°34	26° 0	3°D28	4°59	8°51	27°17	M26
T 27	18 56 0	13°41'37	15°13	24°37	21°38	9° 3	5° 4	19°19	25°45	17°33	25°59	3°28	4°56	8°58	27°13	T 27
W28	18 59 57	14°38'50	29°18	25°10	22°52	9°21	5°17	19°17	25°46	17°31	25°57	3°29	4°53	9° 4	27°10	W28
T 29	19 3 53	15°36'03	13♋2	25°47	24° 6	9°38	5°29	19°15	25°47	17°30	25°56	3°R30	4°50	9°11	27° 6	T 29
F 30	19 7 50	16°33'16	26♌25	26♊30	25°50	9°54	5♊41	19♎14	25°Y49	17°59	25°55	3°R30	4°46	9°18	27°5	F 30

Delta T = 259.78 sec

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1514

## geocentric

JULY 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	19 11 46	17°30'29	9♉29	27♊18	26♋33	10♌10	5♍13	19°R13	25°Y50	17°R27	25°R53	3°R28	4♎43	9♏24	26°R59	S 1
S 2	19 15 43	18°27'42	22°17	28°11	27°47	10°25	6° 5	19♌11	25°51	17°26	25°52	3♎23	4°40	9°31	26°55	S 2
M 3	19 19 40	19°24'56	4♌50	29° 9	29° 1	10°40	6°17	19°10	25°52	17°25	25°50	3°18	4°37	9°38	26°52	M 3
T 4	19 23 36	20°22'10	17°12	0♍12	0♌15	10°54	6°29	19° 9	25°53	17°23	25°49	3°10	4°34	9°44	26°48	T 4
W 5	19 27 33	21°19'24	29°24	1°20	1°29	11° 7	6°41	19° 8	25°54	17°22	25°48	3° 3	4°31	9°51	26°45	W 5
T 6	19 31 29	22°16'39	11♋27	2°33	2°42	11°20	6°53	19° 7	25°54	17°20	25°46	2°56	4°27	9°58	26°42	T 6
F 7	19 35 26	23°13'54	23°23	3°51	3°56	11°32	7° 5	19° 7	25°55	17°19	25°45	2°49	4°24	10° 4	26°38	F 7
S 8	19 39 22	24°11'10	5♌15	5°13	5°10	11°44	7°16	19° 6	25°56	17°17	25°44	2°44	4°21	10°11	26°35	S 8
S 9	19 43 19	25° 8'27	17° 3	6°40	6°24	11°54	7°28	19° 5	25°57	17°16	25°42	2°41	4°18	10°18	26°32	S 9
M10	19 47 15	26° 5'45	28°51	8°11	7°38	12° 4	7°39	19° 5	25°57	17°14	25°41	2°D40	4°15	10°24	26°29	M10
T 11	19 51 12	27° 3'03	10♌41	9°47	8°51	12°13	7°51	19° 4	25°58	17°13	25°40	2°40	4°11	10°31	26°25	T 11
W12	19 55 9	28° 0'22	22°36	11°26	10° 5	12°22	8° 2	19° 4	25°59	17°11	25°39	2°42	4° 8	10°38	26°22	W12
T 13	19 59 5	28°57'42	4♏42	13° 9	11°19	12°30	8°13	19° 4	25°59	17°10	25°37	2°43	4° 5	10°44	26°19	T 13
F 14	20 3 2	29°55'03	17° 2	14°56	12°33	12°36	8°24	19° 4	26° 0	17° 8	25°36	2°45	4° 2	10°51	26°16	F 14
S 15	20 6 58	0♌52'26	29°40	16°46	13°47	12°43	8°35	19°D 4	26° 0	17° 7	25°35	2°R45	3°59	10°58	26°14	S 15
S 16	20 10 55	1°49'49	12♋42	18°39	15° 1	12°48	8°46	19° 4	26° 0	17° 5	25°34	2°45	3°56	11° 4	26°11	S 16
M17	20 14 51	2°47'14	26° 9	20°34	16°14	12°52	8°57	19° 4	26° 1	17° 4	25°33	2°43	3°52	11°11	26° 8	M17
T 18	20 18 48	3°44'40	10♊5	22°32	17°28	12°56	9° 8	19° 4	26° 1	17° 2	25°32	2°40	3°49	11°18	26° 5	T 18
W19	20 22 44	4°42'07	24°27	24°32	18°42	12°59	9°19	19° 5	26° 1	17° 1	25°30	2°37	3°46	11°24	26° 3	W19
T 20	20 26 41	5°39'36	9♌14	26°33	19°56	13° 1	9°29	19° 5	26° 1	16°59	25°29	2°33	3°43	11°31	26° 0	T 20
F 21	20 30 38	6°37'05	24°18	28°35	21°10	13° 3	9°40	19° 6	26° 2	16°57	25°28	2°29	3°40	11°38	25°58	F 21
S 22	20 34 34	7°34'36	9♌30	0♌38	22°24	13°R 3	9°50	19° 6	26° 2	16°56	25°27	2°27	3°37	11°44	25°55	S 22
S 23	20 38 31	8°32'08	24°40	2°42	23°37	13° 3	10° 0	19° 7	26°R 2	16°54	25°26	2°26	3°33	11°51	25°53	S 23
M24	20 42 27	9°29'41	9♎40	4°46	24°51	13° 1	10°11	19° 8	26° 2	16°52	25°25	2°D26	3°30	11°57	25°50	M24
T 25	20 46 24	10°27'14	24°22	6°50	26° 5	12°59	10°21	19° 9	26° 2	16°51	25°24	2°27	3°27	12° 4	25°48	T 25
W26	20 50 20	11°24'49	8♌40	8°54	27°19	12°57	10°31	19°10	26° 1	16°49	25°23	2°28	3°24	12°11	25°46	W26
T 27	20 54 17	12°22'24	22°33	10°57	28°33	12°53	10°40	19°11	26° 1	16°48	25°22	2°29	3°21	12°17	25°44	T 27
F 28	20 58 13	13°20'01	6♎1	12°59	29°47	12°49	10°50	19°12	26° 1	16°46	25°21	2°30	3°17	12°24	25°42	F 28
S 29	21 2 10	14°17'38	19° 5	15° 1	1♎0	12°43	11° 0	19°14	26° 1	16°44	25°21	2°R30	3°14	12°31	25°40	S 29
S 30	21 6 7	15°15'16	1♌49	17° 1	2°14	12°37	11° 9	19°15	26° 0	16°43	25°20	2°29	3°11	12°37	25°38	S 30
M31	21 10 3	16°12'56	14♌15	19°L 1	3♎28	12♌31	11♊19	19°L17	26°Y 0	16°41	25°19	2°R28	3°R 8	12°44	25°36	M31

Delta T = 259.59 sec

Julian Calendar 1 July 1514 == Greg. Calendar 11 July 1514

AUGUST 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	21 14 0	17°L0'36	26♌28	20♌59	4♎42	12°R23	11♊28	19°L18	26°R 0	16°R39	25°R18	2°R26	3♎5	12°51	25°R35	T 1
W 2	21 17 56	18° 8'18	8♋30	22°56	5°56	12♌15	11°37	19°20	25°Y59	16°R38	25°17	2°R24	3° 2	12°57	25°R33	W 2
T 3	21 21 53	19° 6'01	20°25	24°52	7° 9	12° 6	11°46	19°22	25°59	16°36	25°17	2°22	2°58	13° 4	25°32	T 3
F 4	21 25 49	20° 3'45	2♌16	26°46	8°23	11°56	11°55	19°24	25°58	16°35	25°16	2°20	2°55	13°11	25°30	F 4
S 5	21 29 46	21° 1'31	14° 5	28°39	9°37	11°46	12° 4	19°26	25°57	16°33	25°15	2°19	2°52	13°17	25°29	S 5
S 6	21 33 42	21°59'18	25°53	0♎31	10°51	11°35	12°12	19°28	25°57	16°31	25°14	2°18	2°49	13°24	25°27	S 6
M 7	21 37 39	22°57'06	7♌44	2°21	12° 4	11°24	12°21	19°30	25°56	16°30	25°14	2°D18	2°46	13°31	25°26	M 7
T 8	21 41 36	23°54'56	19°40	4°10	13°18	11°12	12°29	19°32	25°55	16°28	25°13	2°19	2°42	13°37	25°25	T 8
W 9	21 45 32	24°52'47	1°Y43	5°58	14°32	10°59	12°37	19°35	25°55	16°26	25°13	2°19	2°39	13°44	25°24	W 9
T 10	21 49 29	25°50'40	13°56	7°44	15°46	10°46	12°46	19°37	25°54	16°25	25°12	2°20	2°36	13°51	25°23	T 10
F 11	21 53 25	26°48'35	26°21	9°29	16°59	10°32	12°54	19°40	25°53	16°23	25°11	2°21	2°33	13°57	25°22	F 11
S 12	21 57 22	27°46'32	9♋3	11°13	18°13	10°18	13° 1	19°42	25°52	16°22	25°11	2°21	2°30	14° 4	25°21	S 12
S 13	22 1 18	28°44'31	22° 4	12°56	19°27	10° 3	13° 9	19°45	25°51	16°20	25°10	2°21	2°27	14°11	25°20	S 13
M14	22 5 15	29°42'31	5♊26	14°37	20°41	9°48	13°17	19°48	25°50	16°18	25°10	2°R21	2°23	14°17	25°20	M14
T 15	22 9 11	0♎40'34	19°12	16°17	21°54	9°33	13°24	19°51	25°49	16°17	25°10	2°21	2°20	14°24	25°19	T 15
W16	22 13 8	1°38'38	3♋22	17°55	23° 8	9°17	13°31	19°54	25°48	16°15	25° 9	2°21	2°17	14°30	25°19	W16
T 17	22 17 4	2°36'45	17°55	19°33	24°22	9° 1	13°39	19°57	25°47	16°14	25° 9	2°D21	2°14	14°37	25°18	T 17
F 18	22 21 1	3°34'53	2♌46	21° 9	25°36	8°45	13°46	20° 0	25°45	16°12	25° 8	2°21	2°11	14°44	25°18	F 18
S 19	22 24 58	4°33'04	17°49	22°44	26°49	8°29	13°52	20° 3	25°44	16°11	25° 8	2°21	2° 8	14°50	25°18	S 19
S 20	22 28 54	5°31'16	2♎56	24°17	28° 3	8°12	13°59	20° 7	25°43	16° 9	25° 8	2°R21	2° 4	14°57	25°18	S 20
M21	22 32 51	6°29'30	17°58	25°50	29°17	7°56	14° 6	20°10	25°42	16° 8	25° 8	2°21	2° 1	15° 4	25°D17	M21
T 22	22 36 47	7°27'45	2♌45	27°21	0♌30	7°39	14°12	20°14	25°40	16° 6	25° 7	2°21	1°58	15°10	25°18	T 22
W23	22 40 44	8°26'02	17°13	28°51	1°44	7°23	14°18	20°17	25°39	16° 5	25° 7	2°20	1°55	15°17	25°18	W23
T 24	22 44 40	9°24'21	1♎15	0♌20	2°58	7° 6	14°24	20°21	25°37	16° 3	25° 7	2°20	1°52	15°24	25°18	T 24
F 25	22 48 37	10°22'42	14°50	1°48	4°11	6°50	14°30	20°25	25°36	16° 2	25° 7	2°19	1°48	15°30	25°18	F 25
S 26	22 52 33	11°21'04	28° 0	3°14	5°25	6°34	14°36	20°28	25°34	16° 0	25° 7	2°18	1°45	15°37	25°18	S 26
S 27	22 56 30	12°19'27	10♌45	4°39	6°39	6°18	14°41	20°32	25°33	15°59	25° 7	2°D18	1°42	15°44	25°19	S 27
M28	23 0 27	13°17'53	23°11	6° 3	7°52	6° 3	14°47	20°36	25°31	15°57	25°D 7	2°18	1°39	15°50	25°19	M28
T 29	23 4 23	14°16'20	5♋20	7°26	9° 6	5°47	14°52	20°40	25°29	15°56	25° 7	2°19	1°36	15°57	25°20	T 29
W30	23 8 20	15°14'48	17°19	8°47	10°19	5°33	14°57	20°44	25°28	15°55	25° 7	2°20	1°33	16° 4	25°21	W30
T 31	23 12 16	16°13'18	29♋10	10♌7	11♌33	5♌18	15♊2	20°L49	25°Y26	15°53	25°7 7	2°R21	1°R29	16°10	25°22	T 31

Delta T = 259.40 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1514  
geocentric

SEPTEMBER 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	23 16 13	17 <sup>11</sup> 11'50	10 <sup>22</sup> 58	11 <sup>25</sup> 25	12 <sup>24</sup> 47	5°R 4	15 <sup>11</sup> 7	20 <sup>11</sup> 53	25°R24	15°R52	25 <sup>27</sup> 7	2 <sup>11</sup> 22	1 <sup>11</sup> 26	16 <sup>22</sup> 17	25 <sup>27</sup> 23	F 1
S 2	23 20 9	18°10'24	22°46	12°42	14° 0	4 <sup>11</sup> 51	15°11	20°57	25 <sup>27</sup> 23	15 <sup>22</sup> 50	25° 7	2°23	1°23	16°24	25°24	S 2
S 3	23 24 6	19° 9'00	4 <sup>11</sup> 38	13°57	15°14	4°38	15°16	21° 2	25°21	15°49	25° 7	2°R23	1°20	16°30	25°25	S 3
M 4	23 28 2	20° 7'37	16°36	15°11	16°27	4°25	15°20	21° 6	25°19	15°48	25° 8	2°23	1°17	16°37	25°26	M 4
T 5	23 31 59	21° 6'16	28°43	16°23	17°41	4°13	15°24	21°11	25°17	15°47	25° 8	2°21	1°14	16°43	25°27	T 5
W 6	23 35 56	22° 4'58	10 <sup>11</sup> 59	17°34	18°54	4° 2	15°28	21°15	25°15	15°45	25° 8	2°19	1°10	16°50	25°28	W 6
T 7	23 39 52	23° 3'41	23°26	18°42	20° 8	3°51	15°31	21°20	25°13	15°44	25° 8	2°16	1° 7	16°57	25°30	T 7
F 8	23 43 49	24° 2'27	6 <sup>11</sup> 5	19°49	21°21	3°41	15°35	21°25	25°11	15°43	25° 9	2°13	1° 4	17° 3	25°31	F 8
S 9	23 47 45	25° 1'15	18°58	20°53	22°34	3°32	15°38	21°30	25° 9	15°42	25° 9	2° 9	1° 1	17°10	25°33	S 9
S 10	23 51 42	26° 0'05	2 <sup>11</sup> 6	21°55	23°48	3°23	15°41	21°35	25° 7	15°41	25° 9	2° 7	0°58	17°17	25°34	S 10
M 11	23 55 38	26°58'57	15°30	22°55	25° 1	3°16	15°44	21°40	25° 5	15°39	25°10	2° 5	0°54	17°23	25°36	M 11
T 12	23 59 35	27°57'52	29°11	23°52	26°15	3° 8	15°47	21°45	25° 3	15°38	25°10	2°D 5	0°51	17°30	25°38	T 12
W 13	0 3 31	28°56'49	13 <sup>11</sup> 9	24°46	27°28	3° 2	15°50	21°50	25° 1	15°37	25°11	2° 5	0°48	17°37	25°40	W 13
T 14	0 7 28	29°55'49	27°25	25°37	28°41	2°56	15°52	21°55	24°59	15°36	25°11	2° 7	0°45	17°43	25°42	T 14
F 15	0 11 24	0 <sup>11</sup> 54'51	11 <sup>11</sup> 55	26°25	29°55	2°51	15°54	22° 0	24°57	15°35	25°12	2° 8	0°42	17°50	25°44	F 15
S 16	0 15 21	1°53'55	26°37	27° 9	1 <sup>11</sup> 8	2°47	15°56	22° 6	24°54	15°34	25°12	2°R 9	0°39	17°57	25°46	S 16
S 17	0 19 18	2°53'01	11 <sup>11</sup> 25	27°49	2°21	2°44	15°58	22°11	24°52	15°33	25°13	2° 9	0°35	18° 3	25°48	S 17
M 18	0 23 14	3°52'10	26°13	28°25	3°35	2°41	15°59	22°16	24°50	15°32	25°14	2° 7	0°32	18°10	25°51	M 18
T 19	0 27 11	4°51'20	10 <sup>11</sup> 53	28°56	4°48	2°39	16° 1	22°22	24°48	15°31	25°14	2° 4	0°29	18°17	25°53	T 19
W 20	0 31 7	5°50'33	25°17	29°22	6° 1	2°38	16° 2	22°27	24°45	15°30	25°15	1°59	0°26	18°23	25°55	W 20
T 21	0 35 4	6°49'47	9 <sup>11</sup> 21	29°43	7°15	2°D38	16° 3	22°33	24°43	15°29	25°16	1°54	0°23	18°30	25°58	T 21
F 22	0 39 0	7°49'04	23° 0	29°57	8°28	2°39	16° 4	22°39	24°41	15°29	25°16	1°48	0°19	18°37	26° 1	F 22
S 23	0 42 57	8°48'22	6 <sup>11</sup> 14	0 <sup>11</sup> 5	9°41	2°40	16° 4	22°44	24°38	15°28	25°17	1°43	0°16	18°43	26° 3	S 23
S 24	0 46 53	9°47'43	19° 3	0°R 5	10°54	2°42	16° 5	22°50	24°36	15°27	25°18	1°39	0°13	18°50	26° 6	S 24
M 25	0 50 50	10°47'05	1 <sup>11</sup> 31	29°59	12° 8	2°45	16°R 5	22°56	24°34	15°26	25°19	1°37	0°10	18°56	26° 9	M 25
T 26	0 54 47	11°46'29	13°41	29°44	13°21	2°49	16° 5	23° 2	24°31	15°25	25°20	1°D37	0° 7	19° 3	26°12	T 26
W 27	0 58 43	12°45'55	25°39	29°21	14°34	2°54	16° 5	23° 8	24°29	15°25	25°21	1°38	0° 4	19°10	26°15	W 27
T 28	1 2 40	13°45'22	7 <sup>11</sup> 29	28°50	15°47	2°59	16° 4	23°14	24°27	15°24	25°22	1°39	0° 0	19°16	26°18	T 28
F 29	1 6 36	14°44'51	19°16	28°10	17° 0	3° 5	16° 3	23°20	24°24	15°23	25°22	1°41	29°57	19°23	26°21	F 29
S 30	1 10 33	15°44'22	1 <sup>11</sup> 6	27°23	18°13	3 <sup>11</sup> 12	16°R 3	23°11	24°22	15°22	25°23	1°R41	29°54	19°23	26°24	S 30

Delta T = 259.21 sec

Julian Calendar 1 Sept. 1514 == Greg. Calendar 11 Sept. 1514

OCTOBER 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	1 14 29	16 <sup>11</sup> 43'55	13 <sup>11</sup> 3	26°R27	19°11	3 <sup>11</sup> 20	16°R 2	23°11	24°R19	15°R22	25°25	1°R41	29°51	19°23	26°28	S 1
M 2	1 18 26	17°43'30	25° 9	25°25	20°39	3°28	16°R 2	23°38	24°R17	15°22	25°26	1°R38	29°48	19°43	26°31	M 2
T 3	1 22 22	18°43'07	7 <sup>11</sup> 28	24°16	21°52	3°37	15°59	23°44	24°14	15°21	25°27	1°33	29°45	19°50	26°34	T 3
W 4	1 26 19	19°42'46	20° 1	23° 4	23° 5	3°47	15°57	23°50	24°12	15°21	25°28	1°26	29°41	19°56	26°38	W 4
T 5	1 30 16	20°42'26	2 <sup>11</sup> 47	21°49	24°18	3°58	15°55	23°57	24°10	15°20	25°29	1°18	29°38	20° 3	26°42	T 5
F 6	1 34 12	21°42'09	15°48	20°35	25°31	4° 9	15°53	24° 3	24° 7	15°20	25°30	1° 8	29°35	20°10	26°45	F 6
S 7	1 38 9	22°41'54	29° 2	19°22	26°44	4°21	15°51	24° 9	24° 5	15°19	25°31	1° 0	29°32	20°16	26°49	S 7
S 8	1 42 5	23°41'42	12 <sup>11</sup> 27	18°13	27°57	4°33	15°49	24°16	24° 2	15°19	25°32	0°52	29°29	20°23	26°53	S 8
M 9	1 46 2	24°41'31	26° 4	17°11	29°10	4°46	15°46	24°22	24° 0	15°19	25°34	0°46	29°25	20°29	26°57	M 9
T 10	1 49 58	25°41'23	9 <sup>11</sup> 50	16°17	0 <sup>11</sup> 23	5° 0	15°43	24°29	23°57	15°18	25°35	0°43	29°22	20°36	27° 1	T 10
W 11	1 53 55	26°41'17	23°45	15°32	1°36	5°14	15°40	24°35	23°55	15°18	25°36	0°D42	29°19	20°43	27° 5	W 11
T 12	1 57 51	27°41'13	7 <sup>11</sup> 49	14°59	2°48	5°29	15°37	24°42	23°52	15°18	25°38	0°42	29°16	20°49	27° 9	T 12
F 13	2 1 48	28°41'11	22° 1	14°36	4° 1	5°45	15°34	24°48	23°50	15°18	25°39	0°43	29°13	20°56	27°13	F 13
S 14	2 5 45	29°41'12	6 <sup>11</sup> 19	14°D25	5°14	6° 1	15°30	24°55	23°47	15°18	25°40	0°R43	29°10	21° 3	27°17	S 14
S 15	2 9 41	0 <sup>11</sup> 41'15	20°42	14°26	6°27	6°18	15°26	25° 2	23°45	15°17	25°42	0°41	29° 6	21° 9	27°21	S 15
M 16	2 13 38	1°41'20	5 <sup>11</sup> 5	14°37	7°39	6°35	15°22	25° 8	23°43	15°17	25°43	0°37	29° 3	21°16	27°25	M 16
T 17	2 17 34	2°41'27	19°23	14°59	8°52	6°53	15°18	25°15	23°40	15°17	25°45	0°30	29° 0	21°23	27°30	T 17
W 18	2 21 31	3°41'36	3 <sup>11</sup> 31	15°31	10° 5	7°11	15°14	25°22	23°38	15°D17	25°46	0°21	28°57	21°29	27°34	W 18
T 19	2 25 27	4°41'46	17°24	16°11	11°17	7°30	15° 9	25°29	23°35	15°17	25°48	0°10	28°54	21°36	27°39	T 19
F 20	2 29 24	5°41'59	0 <sup>11</sup> 57	16°59	12°30	7°50	15° 5	25°35	23°33	15°17	25°49	29°59	28°50	21°43	27°43	F 20
S 21	2 33 20	6°42'13	14° 8	17°55	13°42	8°10	15° 0	25°42	23°31	15°17	25°51	29°48	28°47	21°49	27°48	S 21
S 22	2 37 17	7°42'29	26°57	18°56	14°55	8°30	14°55	25°49	23°28	15°17	25°52	29°39	28°44	21°56	27°52	S 22
M 23	2 41 13	8°42'47	9 <sup>11</sup> 25	20° 3	16° 7	8°51	14°49	25°56	23°26	15°18	25°54	29°33	28°41	22° 3	27°57	M 23
T 24	2 45 10	9°43'06	21°36	21°15	17°20	9°13	14°44	26° 3	23°23	15°18	25°55	29°29	28°38	22° 9	28° 2	T 24
W 25	2 49 7	10°43'26	3 <sup>11</sup> 34	22°30	18°32	9°35	14°38	26°10	23°21	15°18	25°57	29°27	28°35	22°16	28° 7	W 25
T 26	2 53 3	11°43'48	15°24	23°49	19°45	9°57	14°33	26°17	23°19	15°18	25°59	29°D27	28°31	22°22	28°12	T 26
F 27	2 57 0	12°44'12	27°12	25°11	20°57	10°20	14°27	26°24	23°17	15°18	26° 0	29°R27	28°28	22°29	28°16	F 27
S 28	3 0 56	13°44'36	9 <sup>11</sup> 3	26°35	22° 9	10°43	14°21	26°30	23°14	15°19	26° 2	29°27	28°25	22°36	28°21	S 28
S 29	3 4 53	14°45'02	21° 2	28° 1	23°21	11° 6	14°15	26°37	23°12	15°19	26° 4	29°25	28°22	22°42	28°26	S 29
M 30	3 8 49	15°45'30	3 <sup>11</sup> 14	29°29	24°33	11°30	14° 8	26°44	23°10	15°19	26° 6	29°21	28°19	22°49	28°32	M 30
T 31	3 12 46	16°45'59	15°R43	0 <sup>11</sup> 58	25°24	11°55	14°R 2	26°11	23°R 8	15°20	26°27	29°13	28°16	22°56	28°37	T 31

Delta T = 259.02 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1514  
geocentric

NOVEMBER 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	3 16 42	17 <sup>11</sup> 46'29	28 <sup>11</sup> 30	2 <sup>11</sup> 29	26 <sup>11</sup> 58	12 <sup>11</sup> 20	13 <sup>11</sup> R55	26 <sup>11</sup> 58	23 <sup>11</sup> R 5	15 <sup>11</sup> 20	26 <sup>11</sup> 9	29 <sup>11</sup> R 3	28 <sup>11</sup> 12	23 <sup>11</sup> 2	28 <sup>11</sup> 42	W 1
T 2	3 20 39	18 <sup>11</sup> 47'01	11 <sup>11</sup> 36	4 <sup>11</sup> 0	28 <sup>11</sup> 10	12 <sup>11</sup> 45	13 <sup>11</sup> II49	27 <sup>11</sup> 6	23 <sup>11</sup> Y 3	15 <sup>11</sup> 21	26 <sup>11</sup> 11	28 <sup>11</sup> 12	28 <sup>11</sup> 9	23 <sup>11</sup> 9	28 <sup>11</sup> 47	T 2
F 3	3 24 36	19 <sup>11</sup> 47'35	25 <sup>11</sup> 0	5 <sup>11</sup> 32	29 <sup>11</sup> 22	13 <sup>11</sup> 10	13 <sup>11</sup> 42	27 <sup>11</sup> 13	23 <sup>11</sup> 1	15 <sup>11</sup> 21	26 <sup>11</sup> 13	28 <sup>11</sup> 38	28 <sup>11</sup> 6	23 <sup>11</sup> 16	28 <sup>11</sup> 52	F 3
S 4	3 28 32	20 <sup>11</sup> 48'10	8 <sup>11</sup> II40	7 <sup>11</sup> 5	0 <sup>11</sup> 334	13 <sup>11</sup> 36	13 <sup>11</sup> 35	27 <sup>11</sup> 20	22 <sup>11</sup> 59	15 <sup>11</sup> 22	26 <sup>11</sup> 15	28 <sup>11</sup> 26	28 <sup>11</sup> 3	23 <sup>11</sup> 22	28 <sup>11</sup> 57	S 4
S 5	3 32 29	21 <sup>11</sup> 48'46	22 <sup>11</sup> 31	8 <sup>11</sup> 38	1 <sup>11</sup> 45	14 <sup>11</sup> 2	13 <sup>11</sup> 28	27 <sup>11</sup> 27	22 <sup>11</sup> 57	15 <sup>11</sup> 22	26 <sup>11</sup> 16	28 <sup>11</sup> 14	28 <sup>11</sup> 0	23 <sup>11</sup> 29	29 <sup>11</sup> 3	S 5
M 6	3 36 25	22 <sup>11</sup> 49'25	6 <sup>11</sup> 31	10 <sup>11</sup> 12	2 <sup>11</sup> 57	14 <sup>11</sup> 29	13 <sup>11</sup> 21	27 <sup>11</sup> 34	22 <sup>11</sup> 55	15 <sup>11</sup> 23	26 <sup>11</sup> 18	28 <sup>11</sup> 6	27 <sup>11</sup> 56	23 <sup>11</sup> 36	29 <sup>11</sup> 8	M 6
T 7	3 40 22	23 <sup>11</sup> 50'05	20 <sup>11</sup> 35	11 <sup>11</sup> 45	4 <sup>11</sup> 9	14 <sup>11</sup> 56	13 <sup>11</sup> 14	27 <sup>11</sup> 41	22 <sup>11</sup> 53	15 <sup>11</sup> 24	26 <sup>11</sup> 20	28 <sup>11</sup> 0	27 <sup>11</sup> 53	23 <sup>11</sup> 42	29 <sup>11</sup> 14	T 7
W 8	3 44 18	24 <sup>11</sup> 50'46	4 <sup>11</sup> 141	13 <sup>11</sup> 19	5 <sup>11</sup> 21	15 <sup>11</sup> 23	13 <sup>11</sup> 6	27 <sup>11</sup> 48	22 <sup>11</sup> 51	15 <sup>11</sup> 24	26 <sup>11</sup> 22	27 <sup>11</sup> 57	27 <sup>11</sup> 50	23 <sup>11</sup> 49	29 <sup>11</sup> 19	W 8
T 9	3 48 15	25 <sup>11</sup> 51'29	18 <sup>11</sup> 47	14 <sup>11</sup> 54	6 <sup>11</sup> 32	15 <sup>11</sup> 50	12 <sup>11</sup> 59	27 <sup>11</sup> 55	22 <sup>11</sup> 49	15 <sup>11</sup> 25	26 <sup>11</sup> 24	27 <sup>11</sup> 56	27 <sup>11</sup> 47	23 <sup>11</sup> 56	29 <sup>11</sup> 25	T 9
F 10	3 52 11	26 <sup>11</sup> 52'14	2 <sup>11</sup> 11	16 <sup>11</sup> 28	7 <sup>11</sup> 44	16 <sup>11</sup> 18	12 <sup>11</sup> 51	28 <sup>11</sup> 2	22 <sup>11</sup> 47	15 <sup>11</sup> 26	26 <sup>11</sup> 26	27 <sup>11</sup> 56	27 <sup>11</sup> 44	24 <sup>11</sup> 2	29 <sup>11</sup> 30	F 10
S 11	3 56 8	27 <sup>11</sup> 53'01	16 <sup>11</sup> 54	18 <sup>11</sup> 2	8 <sup>11</sup> 55	16 <sup>11</sup> 46	12 <sup>11</sup> 44	28 <sup>11</sup> 9	22 <sup>11</sup> 45	15 <sup>11</sup> 27	26 <sup>11</sup> 28	27 <sup>11</sup> 55	27 <sup>11</sup> 41	24 <sup>11</sup> 9	29 <sup>11</sup> 36	S 11
S 12	4 0 5	28 <sup>11</sup> 53'49	0 <sup>11</sup> 55	19 <sup>11</sup> 36	10 <sup>11</sup> 7	17 <sup>11</sup> 14	12 <sup>11</sup> 36	28 <sup>11</sup> 16	22 <sup>11</sup> 43	15 <sup>11</sup> 27	26 <sup>11</sup> 30	27 <sup>11</sup> 53	27 <sup>11</sup> 37	24 <sup>11</sup> 15	29 <sup>11</sup> 41	S 12
M13	4 4 1	29 <sup>11</sup> 54'38	14 <sup>11</sup> 51	21 <sup>11</sup> 11	11 <sup>11</sup> 18	17 <sup>11</sup> 43	12 <sup>11</sup> 28	28 <sup>11</sup> 23	22 <sup>11</sup> 42	15 <sup>11</sup> 28	26 <sup>11</sup> 32	27 <sup>11</sup> 48	27 <sup>11</sup> 34	24 <sup>11</sup> 22	29 <sup>11</sup> 47	M13
T 14	4 7 58	0 <sup>11</sup> 55'29	28 <sup>11</sup> 42	22 <sup>11</sup> 45	12 <sup>11</sup> 29	18 <sup>11</sup> 12	12 <sup>11</sup> 20	28 <sup>11</sup> 30	22 <sup>11</sup> 40	15 <sup>11</sup> 29	26 <sup>11</sup> 34	27 <sup>11</sup> 39	27 <sup>11</sup> 31	24 <sup>11</sup> 29	29 <sup>11</sup> 52	T 14
W15	4 11 54	1 <sup>11</sup> 56'22	12 <sup>11</sup> 11	24 <sup>11</sup> 19	13 <sup>11</sup> 40	18 <sup>11</sup> 41	12 <sup>11</sup> 12	28 <sup>11</sup> 38	22 <sup>11</sup> 38	15 <sup>11</sup> 30	26 <sup>11</sup> 36	27 <sup>11</sup> 28	27 <sup>11</sup> 28	24 <sup>11</sup> 35	29 <sup>11</sup> 58	W15
T 16	4 15 51	2 <sup>11</sup> 57'15	25 <sup>11</sup> 55	25 <sup>11</sup> 53	14 <sup>11</sup> 52	19 <sup>11</sup> 11	12 <sup>11</sup> 4	28 <sup>11</sup> 45	22 <sup>11</sup> 36	15 <sup>11</sup> 31	26 <sup>11</sup> 38	27 <sup>11</sup> 15	27 <sup>11</sup> 25	24 <sup>11</sup> 42	0 <sup>11</sup> 4	T 16
F 17	4 19 47	3 <sup>11</sup> 58'10	9 <sup>11</sup> 11	27 <sup>11</sup> 28	16 <sup>11</sup> 3	19 <sup>11</sup> 40	11 <sup>11</sup> 56	28 <sup>11</sup> 52	22 <sup>11</sup> 35	15 <sup>11</sup> 32	26 <sup>11</sup> 40	27 <sup>11</sup> 2	27 <sup>11</sup> 22	24 <sup>11</sup> 49	0 <sup>11</sup> 10	F 17
S 18	4 23 44	4 <sup>11</sup> 59'06	22 <sup>11</sup> 10	29 <sup>11</sup> 2	17 <sup>11</sup> 14	20 <sup>11</sup> 10	11 <sup>11</sup> 48	28 <sup>11</sup> 59	22 <sup>11</sup> 33	15 <sup>11</sup> 33	26 <sup>11</sup> 42	26 <sup>11</sup> 49	27 <sup>11</sup> 18	24 <sup>11</sup> 55	0 <sup>11</sup> 15	S 18
S 19	4 27 40	6 <sup>11</sup> 0'03	4 <sup>11</sup> 351	0 <sup>11</sup> 36	18 <sup>11</sup> 24	20 <sup>11</sup> 40	11 <sup>11</sup> 40	29 <sup>11</sup> 6	22 <sup>11</sup> 31	15 <sup>11</sup> 34	26 <sup>11</sup> 44	26 <sup>11</sup> 37	27 <sup>11</sup> 15	25 <sup>11</sup> 2	0 <sup>11</sup> 21	S 19
M20	4 31 37	7 <sup>11</sup> 1'01	17 <sup>11</sup> 15	2 <sup>11</sup> 10	19 <sup>11</sup> 35	21 <sup>11</sup> 11	11 <sup>11</sup> 32	29 <sup>11</sup> 13	22 <sup>11</sup> 30	15 <sup>11</sup> 35	26 <sup>11</sup> 46	26 <sup>11</sup> 29	27 <sup>11</sup> 12	25 <sup>11</sup> 9	0 <sup>11</sup> 27	M20
T 21	4 35 34	8 <sup>11</sup> 2'00	29 <sup>11</sup> 24	3 <sup>11</sup> 44	20 <sup>11</sup> 46	21 <sup>11</sup> 42	11 <sup>11</sup> 24	29 <sup>11</sup> 20	22 <sup>11</sup> 28	15 <sup>11</sup> 36	26 <sup>11</sup> 48	26 <sup>11</sup> 23	27 <sup>11</sup> 9	25 <sup>11</sup> 15	0 <sup>11</sup> 33	T 21
W22	4 39 30	9 <sup>11</sup> 2'59	11 <sup>11</sup> 21	5 <sup>11</sup> 18	21 <sup>11</sup> 57	22 <sup>11</sup> 12	11 <sup>11</sup> 16	29 <sup>11</sup> 27	22 <sup>11</sup> 27	15 <sup>11</sup> 37	26 <sup>11</sup> 50	26 <sup>11</sup> 20	27 <sup>11</sup> 6	25 <sup>11</sup> 22	0 <sup>11</sup> 39	W22
T 23	4 43 27	10 <sup>11</sup> 3'59	23 <sup>11</sup> 10	6 <sup>11</sup> 52	23 <sup>11</sup> 7	22 <sup>11</sup> 43	11 <sup>11</sup> 7	29 <sup>11</sup> 34	22 <sup>11</sup> 25	15 <sup>11</sup> 39	26 <sup>11</sup> 52	26 <sup>11</sup> D19	27 <sup>11</sup> 2	25 <sup>11</sup> 29	0 <sup>11</sup> 45	T 23
F 24	4 47 23	11 <sup>11</sup> 5'00	4 <sup>11</sup> 57	8 <sup>11</sup> 26	24 <sup>11</sup> 18	23 <sup>11</sup> 15	10 <sup>11</sup> 59	29 <sup>11</sup> 41	22 <sup>11</sup> 24	15 <sup>11</sup> 40	26 <sup>11</sup> 54	26 <sup>11</sup> R20	26 <sup>11</sup> 59	25 <sup>11</sup> 35	0 <sup>11</sup> 51	F 24
S 25	4 51 20	12 <sup>11</sup> 6'01	16 <sup>11</sup> 48	10 <sup>11</sup> 1	25 <sup>11</sup> 28	23 <sup>11</sup> 46	10 <sup>11</sup> 51	29 <sup>11</sup> 48	22 <sup>11</sup> 23	15 <sup>11</sup> 41	26 <sup>11</sup> 56	26 <sup>11</sup> 20	26 <sup>11</sup> 56	25 <sup>11</sup> 42	0 <sup>11</sup> 57	S 25
S 26	4 55 16	13 <sup>11</sup> 7'03	28 <sup>11</sup> 46	11 <sup>11</sup> 35	26 <sup>11</sup> 38	24 <sup>11</sup> 18	10 <sup>11</sup> 43	29 <sup>11</sup> 55	22 <sup>11</sup> 21	15 <sup>11</sup> 42	26 <sup>11</sup> 59	26 <sup>11</sup> 18	26 <sup>11</sup> 53	25 <sup>11</sup> 48	1 <sup>11</sup> 3	S 26
M27	4 59 13	14 <sup>11</sup> 8'05	10 <sup>11</sup> 59	13 <sup>11</sup> 9	27 <sup>11</sup> 48	24 <sup>11</sup> 50	10 <sup>11</sup> 35	0 <sup>11</sup> 2	22 <sup>11</sup> 20	15 <sup>11</sup> 44	27 <sup>11</sup> 1	26 <sup>11</sup> 15	26 <sup>11</sup> 50	25 <sup>11</sup> 55	1 <sup>11</sup> 9	M27
T 28	5 3 9	15 <sup>11</sup> 9'08	23 <sup>11</sup> 31	14 <sup>11</sup> 44	28 <sup>11</sup> 58	25 <sup>11</sup> 22	10 <sup>11</sup> 27	0 <sup>11</sup> 9	22 <sup>11</sup> 19	15 <sup>11</sup> 45	27 <sup>11</sup> 3	26 <sup>11</sup> 9	26 <sup>11</sup> 47	26 <sup>11</sup> 2	1 <sup>11</sup> 15	T 28
W29	5 7 6	16 <sup>11</sup> 10'11	6 <sup>11</sup> 25	16 <sup>11</sup> 18	0 <sup>11</sup> 8	25 <sup>11</sup> 54	10 <sup>11</sup> 18	0 <sup>11</sup> 16	22 <sup>11</sup> 18	15 <sup>11</sup> 46	27 <sup>11</sup> 5	26 <sup>11</sup> 1	26 <sup>11</sup> 43	26 <sup>11</sup> 8	1 <sup>11</sup> 21	W29
T 30	5 11 3	17 <sup>11</sup> 11'15	19 <sup>11</sup> 43	17 <sup>11</sup> 53	1 <sup>11</sup> 18	26 <sup>11</sup> 27	10 <sup>11</sup> II10	0 <sup>11</sup> 23	22 <sup>11</sup> Y16	15 <sup>11</sup> 48	27 <sup>11</sup> 7	25 <sup>11</sup> 10	26 <sup>11</sup> 140	26 <sup>11</sup> 15	1 <sup>11</sup> 27	T 30

Delta T = 258.83 sec

Julian Calendar 1 Nov. 1514 == Greg. Calendar 11 Nov. 1514

DECEMBER 1514 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	5 14 59	18 <sup>11</sup> 12'20	3 <sup>11</sup> II24	19 <sup>11</sup> 28	2 <sup>11</sup> 27	26 <sup>11</sup> 59	10 <sup>11</sup> R 2	0 <sup>11</sup> 30	22 <sup>11</sup> R15	15 <sup>11</sup> 49	27 <sup>11</sup> 9	25 <sup>11</sup> R39	26 <sup>11</sup> 137	26 <sup>11</sup> 22	1 <sup>11</sup> 33	F 1
S 2	5 18 56	19°13'25	17°26	21° 2	3°37	27°32	9 <sup>11</sup> II54	0°36	22 <sup>11</sup> Y14	15°50	27°11	25 <sup>11</sup> 128	26°34	26°28	1°39	S 2
S 3	5 22 52	20°14'30	1 <sup>11</sup> 43	22°37	4°46	28° 5	9°46	0°43	22°13	15°52	27°14	25°18	26°31	26°35	1°45	S 3
M 4	5 26 49	21°15'37	16°11	24°13	5°55	28°38	9°39	0°50	22°12	15°53	27°16	25°10	26°28	26°42	1°51	M 4
T 5	5 30 45	22°16'43	0 <sup>11</sup> 142	25°48	7° 4	29°11	9°31	0°57	22°12	15°55	27°18	25° 5	26°24	26°48	1°57	T 5
W 6	5 34 42	23°17'51	15°11	27°24	8°13	29°45	9°23	1° 4	22°11	15°56	27°20	25° 2	26°21	26°55	2° 3	W 6
T 7	5 38 39	24°18'59	29°33	29° 0	9°22	0 <sup>11</sup> Y18	9°15	1°10	22°10	15°58	27°22	25°D 2	26°18	27° 2	2° 9	T 7
F 8	5 42 35	25°20'08	13 <sup>11</sup> 146	0 <sup>11</sup> 36	10°30	0°52	9° 8	1°17	22° 9	15°59	27°24	25° 3	26°15	27° 8	2°15	F 8
S 9	5 46 32	26°21'17	27°48	2°12	11°38	1°26	9° 0	1°24	22° 8	16° 1	27°27	25°R 3	26°12	27°15	2°22	S 9
S 10	5 50 28	27°22'27	11 <sup>11</sup> 138	3°48	12°47	2° 0	8°53	1°30	22° 8	16° 3	27°29	25° 2	26° 8	27°21	2°28	S 10
M11	5 54 25	28°23'38	25°18	5°25	13°55	2°34	8°46	1°37	22° 7	16° 4	27°31	24°59	26° 5	27°28	2°34	M11
T 12	5 58 21	29°24'49	8 <sup>11</sup> 147	7° 2	15° 2	3° 8	8°38	1°43	22° 7	16° 6	27°33	24°53	26° 2	27°35	2°40	T 12
W13	6 2 18	0 <sup>11</sup> 26'00	22° 4	8°39	16°10	3°42	8°31	1°50	22° 6	16° 8	27°35	24°45	25°59	27°41	2°46	W13
T 14	6 6 14	1°27'12	5 <sup>11</sup> 210	10°16	17°18	4°17	8°24	1°56	22° 6	16°10	27°37	24°36	25°56	27°48	2°52	T 14
F 15	6 10 11	2°28'24	18° 3	11°53	18°25	4°51	8°17	2° 3	22° 5	16°11	27°40	24°25	25°53	27°55	2°59	F 15
S 16	6 14 8	3°29'37	0 <sup>11</sup> 343	13°31	19°32	5°26	8°11	2° 9	22° 5	16°13	27°42	24°16	25°49	28° 1	3° 5	S 16
S 17	6 18 4	4°30'49	13°10	15° 8	20°39	6° 1	8° 4	2°16	22° 5	16°15	27°44	24° 7	25°46	28° 8	3°11	S 17
M18	6 22 1	5°32'02	25°24	16°46	21°45	6°36	7°58	2°22	22° 4	16°17	27°46	24° 1	25°43	28°15	3°17	M18
T 19	6 25 57	6°33'14	7 <sup>11</sup> 227	18°23	22°52	7°11	7°51	2°28	22° 4	16°19	27°48	23°57	25°40	28°21	3°23	T 19
W20	6 29 54	7°34'26	19°21	20° 1	23°58	7°46	7°45	2°35	22° 4	16°20	27°50	23°D56	25°37	28°28	3°29	W20
T 21	6 33 50	8°35'37	1 <sup>11</sup> 9	21°38	25° 4	8°21	7°39	2°41	22° 4	16°22	27°53	23°56	25°34	28°35	3°35	T 21
F 22	6 37 47	9°36'49	12°55	23°14	26°10	8°56	7°33	2°47	22°D 4	16°24	27°55	23°57	25°30	28°41	3°42	F 22
S 23	6 41 43	10°37'59	24°44	24°51	27°15	9°32	7°28	2°53	22° 4	16°26	27°57	23°59	25°27	28°48	3°48	S 23
S 24	6 45 40	11°39'10	6 <sup>11</sup> Y41	26°26	28°20	10° 7	7°22	2°59	22° 4	16°28	27°59	24°R 0	25°24	28°55	3°54	S 24
M25	6 49 37	12°40'20	18°51	28° 0	29°25	10°43	7°17	3° 5	22° 4	16°30	28° 1	24° 0	25°21	29° 1	4° 0	M25
T 26	6 53 33	13°41'29	1 <sup>11</sup> 20	29°34	0 <sup>11</sup> 29	11°18	7°11	3°11	22° 4	16°32	28° 3	23°58	25°18	29° 8	4° 6	T 26
W27	6 57 30	14°42'37	14°12	1 <sup>11</sup> 5	1°34	11°54	7° 6	3°17	22° 5	16°34	28° 5	23°54	25°14	29°14	4°12	W27
T 28	7 1 26	15°43'45	27°29	2°35	2°37	12°30	7° 1	3°23	22° 5	16°36	28° 7	23°49	25°11	29°21	4°18	T 28
F 29	7 5 23	16°44'53	11 <sup>11</sup> 114	4° 3	3°41	13° 6	6°57	3°29	22° 5	16°38	28° 9	23°43	25° 8	29°28	4°24	F 29
S 30	7 9 19	17°45'59	25°25	5°28	4°44	13°42	6°52	3°34	22° 6	16°40	28°11	23°37	25° 5	29°34	4°30	S 30
S 31	7 13 16	18 <sup>11</sup> 347'06	9 <sup>11</sup> 557	6 <sup>11</sup> 50	5 <sup>11</sup> 47	14 <sup>11</sup> Y18	6 <sup>11</sup> II48	3 <sup>11</sup> 40	22 <sup>11</sup> Y 6	16 <sup>11</sup> 422	28 <sup>11</sup> 14	23 <sup>11</sup> 132	25 <sup>11</sup> 12	29 <sup>11</sup> 41	4 <sup>11</sup> 36	S 31