



Astrodienst Ephemeris Tables for the year 1415

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 D5EPX

ASTRODIENST EPHEMERIS for the year 1415
geocentric

JANUARY 1415 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 14 11	19°35'01	24°12'12	22°31'31	22°47'49	23°23'23	0°48'48	3°R26	19°16'16	9°R10	19°R 6	9°R27	9°35'09	10°M48	3°52'37	T 1
W 2	7 18 7	20°6'07	6°28'28	24°13'24	24°3'24	24°10'24	1°1'31	3°21'32	19°19'19	9°26'26	19°II 5	9°26'26	9°5'5	10°55'55	3°57'57	W 2
T 3	7 22 4	21°7'12	18°32'32	25°55'25	25°18'25	24°57'24	1°15'15	3°17'17	19°22'19	9°7'9	19°4'4	9°D26	9°2'2	11°2'2	4°3'3	T 3
F 4	7 26 0	22°8'17	0°26'26	27°37'27	26°33'26	25°44'25	1°28'28	3°12'12	19°26'19	9°5'5	19°3'3	9°26'26	8°59'58	11°8'8	4°9'9	F 4
S 5	7 29 57	23°9'22	12°17'17	29°20'29	27°47'27	26°31'26	1°42'42	3°8'8	19°29'19	9°4'4	19°2'2	9°26'26	8°56'56	11°15'15	4°15'15	S 5
S 6	7 33 53	24°10'26	24°9'24	1°48'48	29°2'29	27°17'27	1°55'55	3°3'3	19°32'19	9°2'2	19°1'1	9°28'28	8°53'53	11°22'22	4°20'20	S 6
M 7	7 37 50	25°11'30	6°7'6	2°48'48	0°17'17	28°4'28	2°8'8	2°59'59	19°35'19	9°1'1	19°0'0	9°29'29	8°49'49	11°28'28	4°26'26	M 7
T 8	7 41 47	26°12'33	18°13'18	4°32'32	1°32'32	28°51'28	2°22'22	2°54'54	19°38'19	8°59'58	18°59'59	9°31'31	8°46'46	11°35'35	4°32'32	T 8
W 9	7 45 43	27°13'35	0°33'33	6°16'16	2°46'46	29°38'29	2°35'35	2°50'50	19°42'19	8°57'57	18°58'58	9°32'32	8°43'43	11°42'42	4°37'37	W 9
T 10	7 49 40	28°14'36	13°7'13	8°0'8	4°1'1	0°25'25	2°48'48	2°46'46	19°45'19	8°56'56	18°57'57	9°R32	8°40'40	11°48'48	4°42'42	T 10
F 11	7 53 36	29°15'37	25°58'25	9°44'44	5°16'16	1°12'12	3°1'3	2°42'42	19°48'19	8°54'54	18°56'56	9°31'31	8°37'37	11°55'55	4°48'48	F 11
S 12	7 57 33	0°16'37	9°5'5	11°28'28	6°31'31	1°59'59	3°14'14	2°37'37	19°52'19	8°53'53	18°55'55	9°29'29	8°34'34	12°2'2	4°53'53	S 12
S 13	8 1 29	1°17'35	22°28'22	13°12'13	7°45'45	2°46'46	3°27'27	2°33'33	19°55'19	8°51'51	18°54'54	9°26'26	8°30'30	12°9'9	4°58'58	S 13
M14	8 5 26	2°18'32	6°7'6	5°14'55	9°0'0	3°32'32	3°40'40	2°29'29	19°58'19	8°49'49	18°54'54	9°23'23	8°27'27	12°15'15	5°3'3	M14
T 15	8 9 22	3°19'28	19°54'19	16°38'38	10°15'10	4°19'49	3°53'53	2°25'25	20°2'2	8°48'48	18°53'53	9°19'19	8°24'24	12°22'22	5°8'8	T 15
W16	8 13 19	4°20'23	3°51'51	18°19'18	11°30'11	5°6'6	4°6'6	2°22'22	20°5'5	8°46'46	18°52'52	9°16'16	8°21'21	12°29'29	5°13'13	W16
T 17	8 17 16	5°21'17	17°55'17	19°59'19	12°44'12	5°53'53	4°19'49	2°18'18	20°8'8	8°45'45	18°51'51	9°14'14	8°18'18	12°35'35	5°18'18	T 17
F 18	8 21 12	6°22'08	2°8'2	21°38'21	13°59'13	6°39'39	4°32'32	2°14'14	20°12'20	8°43'43	18°50'50	9°D13	8°15'15	12°42'42	5°23'23	F 18
S 19	8 25 9	7°22'59	16°12'16	23°14'23	15°14'15	7°26'26	4°45'45	2°11'11	20°15'20	8°42'42	18°50'50	9°13'13	8°11'11	12°49'49	5°28'28	S 19
S 20	8 29 5	8°23'48	0°23'23	24°47'24	16°29'16	8°13'13	4°57'57	2°7'7	20°19'20	8°41'41	18°49'49	9°14'14	8°8'8	12°55'55	5°32'32	S 20
M21	8 33 2	9°24'35	14°31'14	26°17'26	17°43'17	8°59'59	5°10'10	2°4'4	20°22'20	8°39'39	18°48'48	9°16'16	8°5'5	13°2'2	5°37'37	M21
T 22	8 36 58	10°25'21	28°36'28	27°44'27	18°58'18	9°46'46	5°23'23	2°0'0	20°25'20	8°38'38	18°48'48	9°17'17	8°2'2	13°9'9	5°42'42	T 22
W23	8 40 55	11°26'06	12°26'12	29°6'29	20°13'20	10°33'10	5°35'35	1°57'57	20°29'20	8°36'36	18°47'47	9°R17	7°59'59	13°16'16	5°46'46	W23
T 24	8 44 51	12°26'48	26°25'26	0°22'22	21°28'21	11°19'11	5°48'48	1°54'54	20°32'20	8°35'35	18°46'46	9°16'16	7°55'55	13°22'22	5°50'50	T 24
F 25	8 48 48	13°27'30	10°6'10	1°33'33	22°42'22	12°6'12	6°0'0	1°51'51	20°36'20	8°34'34	18°46'46	9°13'13	7°52'52	13°29'29	5°55'55	F 25
S 26	8 52 45	14°28'10	23°27'23	2°37'37	23°57'23	12°52'12	6°13'13	1°48'48	20°39'20	8°32'32	18°45'45	9°8'8	7°49'49	13°36'36	5°59'59	S 26
S 27	8 56 41	15°28'48	6°34'6	3°34'34	25°12'25	13°39'13	6°25'25	1°45'45	20°43'20	8°31'31	18°44'44	9°2'2	7°46'46	13°42'42	6°3'3	S 27
M28	9 0 38	16°29'25	19°24'19	4°23'23	26°27'26	14°25'14	6°37'37	1°42'42	20°46'20	8°30'30	18°44'44	8°56'56	7°43'43	13°49'49	6°7'7	M28
T 29	9 4 34	17°30'01	1°25'25	5°3'3	27°41'27	15°11'15	6°49'49	1°39'39	20°50'20	8°29'29	18°43'43	8°49'49	7°40'40	13°56'56	6°11'11	T 29
W30	9 8 31	18°30'35	14°14'14	5°34'34	28°56'28	15°58'15	7°1'1	1°37'37	20°53'20	8°27'27	18°43'43	8°43'43	7°36'36	14°2'2	6°15'15	W30
T 31	9 12 27	19°31'08	26°18'26	5°55'55	0°11'11	16°44'16	7°13'13	1°34'34	20°56'20	8°26'26	18°42'42	8°38'38	7°33'33	14°9'9	6°18'18	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	22s 9	2s22	5s 6	23s41	2s 5	22s36	0n44	14s46	1s 3	23s22	0n 8	22n49	0s39	15s45	0s42	22n23	0s49	16n 9	6s56	23s11	23s12	19s16	17s22	3n41			
W 2	22 0	7 25	5 16	23 23	2 5	22 42	0 41	14 29	1 2	23 22	0 8	22 49	0 39	15 44	0 42	22 23	0 49	16 9	6 56	23 11	23 12	19 18	17 22	3 42			
T 3	21 51	12 6	5 13	23 5	2 5	22 48	0 38	14 13	1 2	23 22	0 8	22 50	0 39	15 43	0 42	22 23	0 49	16 9	6 56	23 11	23 12	19 20	17 23	3 42			
F 4	21 41	16 16	4 56	22 44	2 5	22 53	0 36	13 57	1 1	23 22	0 8	22 50	0 39	15 42	0 42	22 23	0 49	16 9	6 56	23 11	23 13	19 21	17 24	3 43			
S 5	21 31	19 48	4 26	22 22	2 4	22 57	0 33	13 40	1 1	23 22	0 8	22 50	0 39	15 41	0 42	22 23	0 49	16 9	6 56	23 11	23 13	19 23	17 24	3 43			
S 6	21 21	22 30	3 45	21 58	2 2	23 1	0 30	13 24	1 0	23 22	0 8	22 50	0 38	15 40	0 41	22 23	0 49	16 9	6 55	23 11	23 13	19 25	17 25	3 44			
M 7	21 10	24 16	2 54	21 33	2 0	23 4	0 27	13 7	1 0	23 22	0 8	22 51	0 38	15 39	0 41	22 23	0 49	16 10	6 55	23 11	23 13	19 26	17 25	3 44			
T 8	20 59	24 54	1 55	21 6	1 58	23 6	0 25	12 50	0 59	23 22	0 8	22 51	0 38	15 38	0 41	22 23	0 49	16 10	6 55	23 10	23 13	19 28	17 26	3 45			
W 9	20 47	24 20	0 49	20 37	1 55	23 7	0 22	12 33	0 59	23 22	0 8	22 51	0 38	15 37	0 41	22 24	0 49	16 10	6 55	23 10	23 14	19 30	17 26	3 45			
T 10	20 35	22 32	0n20	20 7	1 51	23 8	0 19	12 16	0 58	23 22	0 8	22 51	0 38	15 36	0 41	22 24	0 49	16 10	6 55	23 10	23 14	19 31	17 27	3 46			
F 11	20 22	19 33	1 29	19 35	1 47	23 8	0 16	11 59	0 57	23 21	0 8	22 52	0 38	15 35	0 41	22 24	0 49	16 10	6 55	23 10	23 14	19 33	17 27	3 46			
S 12	20 9	15 32	2 36	19 2	1 42	23 8	0 14	11 41	0 57	23 21	0 7	22 52	0 38	15 34	0 41	22 24	0 49	16 10	6 55	23 11	23 14	19 35	17 28	3 47			
S 13	19 56	10 41	3 35	18 27	1 36	23 6	0 11	11 24	0 56	23 21	0 7	22 52	0 37	15 33	0 41	22 24	0 49	16 10	6 54	23 11	23 14	19 36	17 28	3 47			
M14	19 42	5 14	4 23	17 51	1 30	23 4	0 8	11 6	0 56	23 21	0 7	22 52	0 37	15 31	0 41	22 24	0 49	16 10	6 54	23 11	23 15	19 38	17 29	3 48			
T 15	19 28	0n31	4 56	17 13	1 23	23 2	0 6	10 49	0 55	23 20	0 7	22 52	0 37	15 30	0 41	22 24	0 49	16 10	6 54	23 11	23 15	19 40	17 29	3 48			
W16	19 14	6 19	5 12	16 35	1 15	22 58	0 3	10 31	0 54	23 20	0 7	22 53	0 37	15 29	0 41	22 24	0 49	16 10	6 54	23 11	23 15	19 41	17 29	3 49			
T 17	18 59	11 49	5 10	15 55	1 7	22 54	0 0	10 13	0 54	23 20	0 7	22 53	0 37	15 28	0 41	22 25	0 49	16 10	6 54	23 12	23 15	19 43	17 30	3 49			
F 18	18 44	16 44	4 49	15 15	0 57	22 49	0s 2	9 55	0 53	23 19	0 7	22 53	0 37	15 27	0 41	22 25	0 49	16 11	6 54	23 12	23 16	19 44	17 30	3 50			
S 19	18 29	20 44	4 11	14 34	0 47	22 44	0 5	9 37	0 53	23 19	0 7	22 53	0 37	15 26	0 41	22 25	0 49	16 11	6 53	23 12	23 16	19 46	17 30	3 50			
S 20	18 13	23 30	3 17	13 52	0 36	22 37	0 8	9 19	0 52	23 19	0 7	22 54	0 36	15 25	0 41	22 25	0 49	16 11	6 53	23 12	23 16	19 48	17 31	3 51			
M21	17 57	24 47	2 12	13 11	0 24	22 30	0 10	9 1	0 51	23 18	0 7	22 54	0 36	15 24	0 41	22 25	0 49	16 11	6 53	23 11	23 16	19 49	17 31	3 51			
T 22	17 41	24 29	0 58	12 29	0 12	22 23	0 13	8 43	0 51	23 18	0 7	22 54	0 36	15 23	0 41	22 25	0 49	16 11	6 53	23 11	23 16	19 51	17 31	3 52			
W23	17 24	22 37	0s18	11 48	0n 1	22 15	0 16	8 25	0 50	23 17	0 6	22 54	0 36	15 22	0 41	22 25	0 49	16 11	6 53	23 11	23 16	19 52	17 31	3 52			
T 24	17 7	19 26	1 32	11 8	0 15	22 6	0 18	8 6	0 50	23 17	0 6	22 54	0 36	15 21	0 41	22 25	0 49	16 11	6 53	23 11	23 17	19 54	17 32	3 53			
F 25	16 50	15 13	2 40	10 30	0 30	21 56	0 21	7 48	0 49	23 16	0 6	22 55	0 36	15 20	0 41	22 26	0 49	16 11	6 52	23 12	23 17	19 55	17 32	3 53			
S 26	16 33	10 19	3 38	9 52	0 45	21 46	0 23	7 30	0 48	23 16	0 6	22 55	0 35	15 18	0 41	22 26	0 49	16 11	6 52	23 12	23 17	19 57	17 32	3 54			
S 27	16 15	5 4	4 22	9 17	1 1	21 35	0 26	7 11	0 48	23 16	0 6	22 55	0 35	15 17	0 41	22 26	0 49	16 12	6 52	23 12	23 17	19 59	17 32	3 54			
M28	15 57	0s16	4 52	8 45	1 16	21 23	0 28	6 53	0 47	23 15	0 6	22 55	0 35	15 16	0 41	22 26	0 49	16 12	6 52	23 13	23 17	20 0	17 32	3 55			
T 29	15 38	5 29	5 8	8 15	1 33	21 11	0 30	6 34	0 46	23 14	0 6	22 55	0 35	15 15	0 41	22 26	0 49	16 12	6 52	23 13	23 18	20 2	17 32	3 56			
W30	15 20	10 22	5 9	7 49	1 49	20 58	0 33	6 15	0 46	23 14	0 6	22 55	0 35	15 14	0 41	22 26	0 49	16 12	6 51	23 14	23 18	20 3	17 33	3 56			
T 31	15s 1	14s46	4s56	7s26	2n 5	20s45	0s35	5s57	0s45	23s13	0n 6	22n56	0s35	15s13	0s41	22n26	0s49	16n12	6s51	23s14	23s18	20s 5	17s33	3n57			

ASTRODIENST EPHEMERIS for the year 1415

geocentric

FEBRUARY 1415 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	9 16 24	20 ³¹ 40	8 ¹⁴ 14	6 ⁶ 6	1 ²⁶ 26	17 ³⁰ 30	7 ²⁵ 25	1 ³² 32	21 ⁰ 0	8 ²⁵ 25	18 ⁴² 42	8 ³⁶ 36	7 ³⁰ 30	14 ¹⁶ 16	6 ²² 22	F 1
S 2	9 20 20	21 ³² 10	20° 5	6 ⁷ 7	2 ⁴⁰ 40	18 ¹⁷ 17	7 ³⁷ 37	1 ²⁹ 29	21° 3	8 ²⁴ 24	18 ⁴¹ 41	8 ³⁵ 35	7 ²⁷ 27	14 ²³ 23	6 ²⁶ 26	S 2
S 3	9 24 17	22 ³² 40	1 ⁵⁶ 56	5°58	3°55	19° 3	7°49	1°27	21° 7	8°23	18°41	8°35	7°24	14°29	6°29	S 3
M 4	9 28 14	23°33'07	13°53	5°38	5°10	19°49	8° 1	1°25	21°10	8°22	18°40	8°36	7°20	14°36	6°33	M 4
T 5	9 32 10	24°33'34	26° 1	5° 9	6°25	20°35	8°12	1°23	21°14	8°20	18°40	8°38	7°17	14°43	6°36	T 5
W 6	9 36 7	25°33'59	8 ²⁴ 24	4°31	7°39	21°22	8°24	1°21	21°17	8°19	18°40	8°R38	7°14	14°49	6°39	W 6
T 7	9 40 3	26°34'22	21° 7	3°46	8°54	22° 8	8°35	1°19	21°21	8°18	18°39	8°38	7°11	14°56	6°42	T 7
F 8	9 44 0	27°34'44	4 ¹¹ 11	2°54	10° 9	22°54	8°47	1°18	21°24	8°17	18°39	8°35	7° 8	15° 3	6°45	F 8
S 9	9 47 56	28°35'04	17°37	1°56	11°23	23°40	8°58	1°16	21°28	8°16	18°39	8°29	7° 5	15° 9	6°48	S 9
S 10	9 51 53	29°35'23	1 ²⁴ 24	0°55	12°38	24°26	9° 9	1°15	21°31	8°15	18°38	8°22	7° 1	15°16	6°51	S 10
M 11	9 55 49	0 ³⁵ 35	15°30	29 ⁵² 52	13°53	25°12	9°20	1°13	21°35	8°15	18°38	8°14	6°58	15°23	6°54	M 11
T 12	9 59 46	1°35'54	29°47	28°48	15° 8	25°58	9°31	1°12	21°38	8°14	18°38	8° 5	6°55	15°29	6°56	T 12
W 13	10 3 43	2°36'07	14 ¹² 12	27°45	16°22	26°44	9°42	1°11	21°41	8°13	18°37	7°56	6°52	15°36	6°59	W 13
T 14	10 7 39	3°36'18	28°38	26°44	17°37	27°29	9°53	1°10	21°45	8°12	18°37	7°50	6°49	15°43	7° 1	T 14
F 15	10 11 36	4°36'26	12 ⁵⁹ 59	25°47	18°52	28°15	10° 4	1° 9	21°48	8°11	18°37	7°45	6°46	15°50	7° 4	F 15
S 16	10 15 32	5°36'33	27°13	24°55	20° 6	29° 1	10°14	1° 8	21°52	8°10	18°37	7°43	6°42	15°56	7° 6	S 16
S 17	10 19 29	6°36'37	11 ¹⁸ 18	24° 8	21°21	29°47	10°25	1° 8	21°55	8°10	18°37	7°D43	6°39	16° 3	7° 8	S 17
M 18	10 23 25	7°36'39	25°12	23°26	22°36	0 ³² 32	10°35	1° 7	21°58	8° 9	18°37	7°44	6°36	16°10	7°10	M 18
T 19	10 27 22	8°36'39	8 ⁵⁶ 56	22°52	23°50	1°18	10°46	1° 7	22° 2	8° 8	18°37	7°R44	6°33	16°16	7°12	T 19
W 20	10 31 18	9°36'37	22°30	22°23	25° 5	2° 4	10°56	1° 6	22° 5	8° 8	18°36	7°43	6°30	16°23	7°14	W 20
T 21	10 35 15	10°36'33	5 ⁵⁴ 54	22° 2	26°19	2°49	11° 6	1° 6	22° 8	8° 7	18°36	7°40	6°26	16°30	7°16	T 21
F 22	10 39 12	11°36'26	19° 7	21°47	27°34	3°35	11°16	1° 6	22°12	8° 6	18°36	7°34	6°23	16°36	7°18	F 22
S 23	10 43 8	12°36'17	2 ⁹ 9	21°39	28°49	4°20	11°26	1°D 6	22°15	8° 6	18°D36	7°25	6°20	16°43	7°19	S 23
S 24	10 47 5	13°36'06	14°59	21°D37	0 ³ 3	5° 6	11°36	1° 6	22°18	8° 5	18°36	7°14	6°17	16°50	7°21	S 24
M 25	10 51 1	14°35'53	27°36	21°41	1°18	5°51	11°45	1° 6	22°22	8° 5	18°36	7° 2	6°14	16°56	7°22	M 25
T 26	10 54 58	15°35'39	10 ¹ 1	21°51	2°32	6°36	11°55	1° 6	22°25	8° 4	18°37	6°49	6°11	17° 3	7°23	T 26
W 27	10 58 54	16°35'22	22°13	22° 6	3°47	7°22	12° 5	1° 7	22°28	8° 4	18°37	6°38	6° 7	17°10	7°24	W 27
T 28	11 2 51	17 ³ 3'03	4 ¹⁵ 15	22 ²⁷ 27	5 ¹ 1	8 ⁷ 7	12 ¹⁴ 14	1 ⁷ 7	22 ³¹ 31	8 ⁴ 4	18 ³⁷ 37	6 ³⁸ 38	6 ³ 4	17 ¹⁷ 17	7 ²⁶ 26	T 28

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
F 1	14s42	18s33	4s30	7s 8	2n20	20s31	0s37	5s38	0s45	23s13	0n 6	22n56	0s35	15s12	0s41	F 1
S 2	14 22	21 33	3 53	6 53	2 35	20 16	0 40	5 19	0 44	23 12	0 6	22 56	0 34	15 11	0 41	S 2
S 3	14 3	23 39	3 6	6 44	2 49	20 1	0 42	5 1	0 43	23 12	0 5	22 56	0 34	15 10	0 41	S 3
M 4	13 43	24 41	2 10	6 39	3 3	19 45	0 44	4 42	0 43	23 11	0 5	22 56	0 34	15 8	0 41	M 4
T 5	13 23	24 35	1 8	6 38	3 14	19 29	0 46	4 23	0 42	23 10	0 5	22 57	0 34	15 7	0 41	T 5
W 6	13 2	23 16	0 1	6 43	3 24	19 12	0 48	4 4	0 41	23 10	0 5	22 57	0 34	15 6	0 41	W 6
T 7	12 42	20 45	1n 7	6 51	3 33	18 54	0 50	3 45	0 41	23 9	0 5	22 57	0 34	15 5	0 41	T 7
F 8	12 21	17 7	2 13	7 4	3 39	18 36	0 52	3 26	0 40	23 8	0 5	22 57	0 33	15 4	0 41	F 8
S 9	12 0	12 31	3 14	7 21	3 43	18 17	0 54	3 8	0 39	23 8	0 5	22 57	0 33	15 3	0 41	S 9
S 10	11 39	7 11	4 5	7 40	3 45	17 58	0 56	2 49	0 39	23 7	0 5	22 57	0 33	15 2	0 41	S 10
M 11	11 18	1 24	4 42	8 3	3 45	17 38	0 58	2 30	0 38	23 6	0 5	22 58	0 33	15 1	0 41	M 11
T 12	10 56	4n32	5 2	8 27	3 42	17 18	1 0	2 11	0 37	23 6	0 5	22 58	0 33	15 0	0 41	T 12
W 13	10 35	10 17	5 4	8 53	3 38	16 58	1 2	1 52	0 37	23 5	0 5	22 58	0 33	14 58	0 41	W 13
T 14	10 13	15 28	4 46	9 19	3 32	16 36	1 3	1 33	0 36	23 4	0 4	22 58	0 32	14 57	0 41	T 14
F 15	9 51	19 45	4 10	9 46	3 23	16 15	1 5	1 14	0 35	23 4	0 4	22 58	0 32	14 56	0 41	F 15
S 16	9 29	22 50	3 19	10 13	3 14	15 53	1 7	0 55	0 35	23 3	0 4	22 58	0 32	14 55	0 41	S 16
S 17	9 7	24 28	2 17	10 39	3 3	15 30	1 8	0 37	0 34	23 2	0 4	22 59	0 32	14 54	0 41	S 17
M 18	8 44	24 32	1 7	11 4	2 51	15 7	1 10	0 18	0 33	23 1	0 4	22 59	0 32	14 53	0 41	M 18
T 19	8 22	23 6	0s 6	11 27	2 38	14 44	1 11	0n 1	0 33	23 1	0 4	22 59	0 32	14 52	0 41	T 19
W 20	7 59	20 21	1 18	11 49	2 25	14 20	1 12	0 20	0 32	23 0	0 4	22 59	0 32	14 51	0 41	W 20
T 21	7 37	16 32	2 24	12 9	2 11	13 56	1 14	0 39	0 31	22 59	0 4	22 59	0 31	14 50	0 42	T 21
F 22	7 14	11 57	3 22	12 27	1 56	13 32	1 15	0 57	0 31	22 59	0 4	22 59	0 31	14 49	0 42	F 22
S 23	6 51	6 53	4 7	12 43	1 42	13 7	1 16	1 16	0 30	22 58	0 4	23 0	0 31	14 48	0 42	S 23
S 24	6 28	1 38	4 40	12 57	1 28	12 42	1 17	1 35	0 29	22 57	0 3	23 0	0 31	14 47	0 42	S 24
M 25	6 5	3s36	4 58	13 10	1 14	12 16	1 18	1 53	0 29	22 56	0 3	23 0	0 31	14 45	0 42	M 25
T 26	5 42	8 36	5 1	13 20	1 0	11 50	1 20	2 12	0 28	22 56	0 3	23 0	0 31	14 44	0 42	T 26
W 27	5 19	13 10	4 51	13 28	0 46	11 24	1 20	2 31	0 27	22 55	0 3	23 0	0 30	14 43	0 42	W 27
T 28	4s55	17s10	4s28	13s33	0n33	10s58	1s21	2n49	0s27	22s54	0n 3	23n 0	0s30	14s42	0s42	T 28

Julian Day Number = 2237917.5, Delta T = 07m29s

Ecliptic obliquity = 23°30'56", Nutation = 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°34'50", Lahiri = 15°41'51" Julian Calendar 1 Feb. 1415 == Greg. Calendar 10 Feb. 1415

ASTRODIENST EPHEMERIS for the year 1415

geocentric

MARCH 1415 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	11 6 47	18 ^h 34'43	16 ^m 9	22 ^s 53	6 ^h 16	8 ^h 52	12 ^h 23	1 ^h 8	22 ^h 35	8 ^h 3	18 ^h 37	6 ^h 21	6 ^h 1	17 ^h 23	7 ^h 27	F 1
S 2	11 10 44	19 ^h 34'21	27 ^m 59	23 ^s 23	7 ^h 30	9 ^h 37	12 ^h 32	1 ^h 9	22 ^h 38	8 ^h 3	18 ^h 37	6 ^h 17	5 ^h 58	17 ^h 30	7 ^h 27	S 2
S 3	11 14 40	20 ^h 33'57	9 ^m 49	23 ^s 58	8 ^h 45	10 ^h 22	12 ^h 41	1 ^h 10	22 ^h 41	8 ^h 3	18 ^h 37	6 ^h 14	5 ^h 55	17 ^h 37	7 ^h 28	S 3
M 4	11 18 37	21 ^h 33'32	21 ^m 44	24 ^s 37	9 ^h 59	11 ^h 7	12 ^h 50	1 ^h 11	22 ^h 44	8 ^h 2	18 ^h 37	6 ^h D14	5 ^h 52	17 ^h 43	7 ^h 29	M 4
T 5	11 22 34	22 ^h 33'04	3 ^m 35	25 ^s 20	11 ^h 14	11 ^h 52	12 ^h 59	1 ^h 12	22 ^h 47	8 ^h 2	18 ^h 38	6 ^h R14	5 ^h 48	17 ^h 50	7 ^h 29	T 5
W 6	11 26 30	23 ^h 32'35	16 ^m 13	26 ^s 6	12 ^h 28	12 ^h 37	13 ^h 7	1 ^h 13	22 ^h 50	8 ^h 2	18 ^h 38	6 ^h 14	5 ^h 45	17 ^h 57	7 ^h 30	W 6
T 7	11 30 27	24 ^h 32'04	28 ^m 56	26 ^s 56	13 ^h 43	13 ^h 22	13 ^h 16	1 ^h 14	22 ^h 53	8 ^h 2	18 ^h 38	6 ^h 12	5 ^h 42	18 ^h 3	7 ^h 30	T 7
F 8	11 34 23	25 ^h 31'31	12 ^m 8	27 ^s 49	14 ^h 57	14 ^h 7	13 ^h 24	1 ^h 16	22 ^h 56	8 ^h 2	18 ^h 38	6 ^h 8	5 ^h 39	18 ^h 10	7 ^h 31	F 8
S 9	11 38 20	26 ^h 30'56	25 ^m 40	28 ^s 45	16 ^h 12	14 ^h 52	13 ^h 33	1 ^h 17	22 ^h 59	8 ^h 2	18 ^h 39	6 ^h 1	5 ^h 36	18 ^h 17	7 ^h 31	S 9
S 10	11 42 16	27 ^h 30'19	9 ^m 41	29 ^s 44	17 ^h 26	15 ^h 37	13 ^h 41	1 ^h 19	23 ^h 2	8 ^h 2	18 ^h 39	5 ^h 51	5 ^h 32	18 ^h 23	7 ^h R31	S 10
M 11	11 46 13	28 ^h 29'41	24 ^m 7	0 ^s 46	18 ^h 41	16 ^h 22	13 ^h 49	1 ^h 21	23 ^h 5	8 ^h D 2	18 ^h 39	5 ^h 40	5 ^h 29	18 ^h 30	7 ^h 31	M 11
T 12	11 50 9	29 ^h 29'00	8 ^m 49	1 ^s 50	19 ^h 55	17 ^h 6	13 ^h 56	1 ^h 23	23 ^h 8	8 ^h 2	18 ^h 40	5 ^h 28	5 ^h 26	18 ^h 37	7 ^h 31	T 12
W 13	11 54 6	0 ^h Y28'17	23 ^m 40	2 ^s 56	21 ^h 10	17 ^h 51	14 ^h 4	1 ^h 25	23 ^h 11	8 ^h 2	18 ^h 40	5 ^h 17	5 ^h 23	18 ^h 43	7 ^h 30	W 13
T 14	11 58 3	1 ^h 27'32	8 ^m 32	4 ^s 5	22 ^h 24	18 ^h 36	14 ^h 12	1 ^h 27	23 ^h 14	8 ^h 2	18 ^h 41	5 ^h 8	5 ^h 20	18 ^h 50	7 ^h 30	T 14
F 15	12 1 59	2 ^h 26'44	23 ^m 15	5 ^s 17	23 ^h 38	19 ^h 20	14 ^h 19	1 ^h 29	23 ^h 17	8 ^h 2	18 ^h 41	5 ^h 2	5 ^h 17	18 ^h 57	7 ^h 30	F 15
S 16	12 5 56	3 ^h 25'55	7 ^m 45	6 ^s 30	24 ^h 53	20 ^h 5	14 ^h 26	1 ^h 31	23 ^h 20	8 ^h 2	18 ^h 41	4 ^h 58	5 ^h 13	19 ^h 4	7 ^h 29	S 16
S 17	12 9 52	4 ^h 25'03	21 ^m 58	7 ^s 45	26 ^h 7	20 ^h 49	14 ^h 33	1 ^h 34	23 ^h 23	8 ^h 2	18 ^h 42	4 ^h 56	5 ^h 10	19 ^h 10	7 ^h 28	S 17
M 18	12 13 49	5 ^h 24'09	5 ^m 52	9 ^s 3	27 ^h 22	21 ^h 33	14 ^h 40	1 ^h 36	23 ^h 26	8 ^h 2	18 ^h 42	4 ^h 56	5 ^h 7	19 ^h 17	7 ^h 28	M 18
T 19	12 17 45	6 ^h 23'12	19 ^m 28	10 ^s 22	28 ^h 36	22 ^h 18	14 ^h 47	1 ^h 39	23 ^h 28	8 ^h 3	18 ^h 43	4 ^h 56	5 ^h 4	19 ^h 24	7 ^h 27	T 19
W 20	12 21 42	7 ^h 22'13	2 ^m 48	11 ^s 43	29 ^h 50	23 ^h 2	14 ^h 54	1 ^h 41	23 ^h 31	8 ^h 3	18 ^h 44	4 ^h 54	5 ^h 1	19 ^h 30	7 ^h 26	W 20
T 21	12 25 38	8 ^h 21'11	15 ^m 54	13 ^s 6	1 ^h Y 4	23 ^h 46	15 ^h 0	1 ^h 44	23 ^h 34	8 ^h 3	18 ^h 44	4 ^h 50	4 ^h 58	19 ^h 37	7 ^h 25	T 21
F 22	12 29 35	9 ^h 20'08	28 ^m 47	14 ^s 31	2 ^h 19	24 ^h 31	15 ^h 7	1 ^h 47	23 ^h 36	8 ^h 4	18 ^h 45	4 ^h 44	4 ^h 54	19 ^h 44	7 ^h 24	F 22
S 23	12 33 32	10 ^h 19'01	11 ^m 29	15 ^s 57	3 ^h 33	25 ^h 15	15 ^h 13	1 ^h 50	23 ^h 39	8 ^h 4	18 ^h 45	4 ^h 34	4 ^h 51	19 ^h 50	7 ^h 23	S 23
S 24	12 37 28	11 ^h 17'53	24 ^m 1	17 ^s 25	4 ^h 47	25 ^h 59	15 ^h 19	1 ^h 53	23 ^h 42	8 ^h 4	18 ^h 46	4 ^h 22	4 ^h 48	19 ^h 57	7 ^h 21	S 24
M 25	12 41 25	12 ^h 16'43	6 ^m 23	18 ^s 55	6 ^h 2	26 ^h 43	15 ^h 25	1 ^h 57	23 ^h 44	8 ^h 5	18 ^h 47	4 ^h 8	4 ^h 45	20 ^h 4	7 ^h 20	M 25
T 26	12 45 21	13 ^h 15'30	18 ^m 36	20 ^s 26	7 ^h 16	27 ^h 27	15 ^h 31	2 ^h 0	23 ^h 47	8 ^h 5	18 ^h 47	3 ^h 55	4 ^h 42	20 ^h 10	7 ^h 19	T 26
W 27	12 49 18	14 ^h 14'16	0 ^m 40	21 ^s 59	8 ^h 30	28 ^h 11	15 ^h 36	2 ^h 3	23 ^h 49	8 ^h 6	18 ^h 48	3 ^h 42	4 ^h 38	20 ^h 17	7 ^h 17	W 27
T 28	12 53 14	15 ^h 13'00	12 ^m 36	23 ^s 34	9 ^h 44	28 ^h 55	15 ^h 42	2 ^h 7	23 ^h 52	8 ^h 6	18 ^h 49	3 ^h 31	4 ^h 35	20 ^h 24	7 ^h 15	T 28
F 29	12 57 11	16 ^h 11'41	24 ^m 28	25 ^s 10	10 ^h 58	29 ^h 39	15 ^h 47	2 ^h 10	23 ^h 54	8 ^h 7	18 ^h 49	3 ^h 22	4 ^h 32	20 ^h 30	7 ^h 14	F 29
S 30	13 1 7	17 ^h 10'22	6 ^m 16	26 ^s 48	12 ^h 13	0 ^h 22	15 ^h 52	2 ^h 14	23 ^h 57	8 ^h 8	18 ^h 50	3 ^h 17	4 ^h 29	20 ^h 37	7 ^h 12	S 30
S 31	13 5 4	18 ^h Y 9'00	18 ^m 8	28 ^s 28	13 ^h Y 27	1 ^h 8	15 ^h 57	2 ^h 18	23 ^h 59	8 ^h 8	18 ^h 51	3 ^h 14	4 ^h 26	20 ^h 44	7 ^h 10	S 31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	4s32	20s26	3s53	13s37	0n20	10s31	1s22	3n 8	0s26	22s53	0n 3	23n 1	0s30	14s41	0s42	22n29	0s48	16n17	6s46	23s22	23s23	20s47	17s26	4n14	
S 2	4 8	22 50	3 8	13 39	0 7	10 4	1 23	3 26	0 25	22 53	0 3	23 1	0 30	14 40	0 42	22 29	0 48	16 18	6 45	23 22	23 23	20 48	17 26	4 15	
S 3	3 45	24 13	2 15	13 39	0s 5	9 36	1 24	3 44	0 25	22 52	0 3	23 1	0 30	14 39	0 42	22 29	0 48	16 18	6 45	23 22	23 23	20 50	17 25	4 16	
M 4	3 21	24 31	1 16	13 37	0 17	9 9	1 24	4 3	0 24	22 51	0 3	23 1	0 30	14 38	0 42	22 29	0 48	16 18	6 45	23 22	23 23	20 51	17 25	4 16	
T 5	2 58	23 40	0 13	13 34	0 28	8 41	1 25	4 21	0 23	22 50	0 3	23 1	0 30	14 37	0 42	22 29	0 48	16 18	6 45	23 22	23 23	20 52	17 24	4 17	
W 6	2 34	21 39	0n53	13 28	0 39	8 13	1 25	4 39	0 23	22 50	0 2	23 1	0 29	14 36	0 42	22 29	0 48	16 19	6 45	23 22	23 23	20 54	17 24	4 17	
T 7	2 11	18 32	1 57	13 21	0 49	7 45	1 26	4 57	0 22	22 49	0 2	23 1	0 29	14 35	0 42	22 29	0 47	16 19	6 44	23 22	23 24	20 55	17 23	4 18	
F 8	1 47	14 23	2 58	13 12	0 59	7 16	1 26	5 15	0 21	22 48	0 2	23 2	0 29	14 34	0 42	22 29	0 47	16 19	6 44	23 22	23 24	20 56	17 23	4 19	
S 9	1 23	9 24	3 50	13 1	1 8	6 47	1 27	5 33	0 21	22 47	0 2	23 2	0 29	14 33	0 42	22 29	0 47	16 19	6 44	23 23	23 24	20 58	17 22	4 19	
S 10	1 0	3 47	4 30	12 48	1 17	6 19	1 27	5 51	0 20	22 47	0 2	23 2	0 29	14 32	0 42	22 29	0 47	16 19	6 44	23 23	23 24	20 59	17 22	4 20	
M 11	0 36	2n 9	4 54	12 34	1 25	5 49	1 27	6 9	0 19	22 46	0 2	23 2	0 29	14 31	0 42	22 29	0 47	16 20	6 44	23 24	23 24	21 0	17 21	4 21	
T 12	0 12	8 6	5 0	12 18	1 33	5 20	1 27	6 27	0 19	22 45	0 2	23 2	0 28	14 30	0 42	22 29	0 47	16 20	6 43	23 24	23 24	21 2	17 20	4 21	
W 13	0n11	13 38	4 45	12 1	1 41	4 51	1 27	6 45	0 18	22 45	0 2	23 2	0 28	14 29	0 42	22 29	0 47	16 20	6 43	23 25	23 24	21 3	17 20	4 22	
T 14	0 35	18 21	4 11	11 42	1 47	4 21	1 27	7 2	0 17	22 44	0 2	23 2	0 28	14 28	0 42	22 29	0 47	16 20	6 43	23 25	23 24	21 4	17 19	4 22	
F 15	0 59	21 53	3 21	11 22	1 54	3 52	1 27	7 20	0 17	22 43	0 1	23 2	0 28	14 28	0 42	22 29	0 47	16 21	6 43	23 25	23 25	21 5	17 18	4 23	
S 16	1 22	23 57	2 18	11 0	2 0	3 22	1 27	7 38	0 16	22 42	0 1	23 3	0 28	14 27	0 42	22 29	0 47	16 21	6 43	23 25	23 25	21 7	17 18	4 24	
S 17	1 46	24 24	1 8	10 37	2 5	2 52	1 27	7 55	0 15	22 42	0 1	23 3	0 28	14 26	0 42	22 29	0 47	16 21	6 42	23 25	23 25	21 8	17 17	4 24	
M 18	2 9	23 18	0s 5	10 12	2 10	2 22	1 26	8 12	0 15	22 41	0 1	23 3	0 28	14 25	0 42	22 29	0 47	16 21	6 42	23 25	23 25	21 9	17 16	4 25	
T 19	2 33	20 51	1 16	9 46	2 14	1 53	1 26	8 29	0 14	22 41	0 1	23 3	0 27	14 24	0 42	22 29	0 47	16 21	6 42	23 25	23 25	21 11	17 15	4 25	
W 20	2 56	17 18	2 22	9 19	2 18	1 23	1 26	8 47	0 13	22 40	0 1	23 3	0 27	14 23	0 42	22 29	0 47	16 22	6 42	23 25	23 25	21 12	17 15	4 26	
T 21	3 19	12 58	3 18	8 50	2 21	0 52	1 25	9 4	0 13	22 39	0 1	23 3	0 27	14 22	0 42	22 29	0 47	16 22	6 42	23 26	23 25	21 13	17 14	4 27	
F 22	3 43	8 7	4 4	8 20	2 24	0 22	1 25	9 21	0 12	22 39	0 1	23 3	0 27	14 21	0 42	22 29	0 47	16 22	6 41	23 26	23 25	21 14	17 13	4 27	
S 23	4 6	3 1	4 36	7 48	2 26	0n 8	1 24	9 37	0 11	22 38	0 1	23 3	0 27	14 20	0 42	22 29	0 47	16 22	6 41	23 26	23 26	21 16	17 12	4 28	
S 24	4 29	2s 8	4 55	7 15	2 28	0 38	1 24	9 54	0 11	22 38	0 0	23 3	0 27	14 20	0 42	22 29	0 47	16 23	6 41	23 27	23 26	21 17	17 12	4 28	
M 25	4 52	7 8	5 0	6 41	2 29	1 8	1 23	10 11	0 10	22 37	0 0	23 4	0 27	14 19	0 42	22 29	0 47	16 23	6 41	23 27	23 26	21 18	17 11	4 29	
T 26	5 15	11 47	4 50	6 6	2 30	1 38	1 22	10 27	0 9	22 36	0 0	23 4	0 26	14 18	0 42	22 29	0 47	16 23	6 41	23 27	23 26	21 19	17 10	4 30	
W 27	5 38	15 55	4 28	5 29	2 30	2 8	1 21	10 44	0 9	22 36	0 0	23 4	0 26	14 17	0 42	22 29	0 47	16 23	6 40	23 28	23 26	21 20	17 9	4 30	
T 28	6 1	19 23	3 54	4 52	2 30	2 38	1 20	11 0	0 8	22 35	0s 0	23 4	0 26	14 16	0 42	22 29	0 47	16 24	6 40	23 28	23 26	21 22	17 8	4 31	
F 29	6 23	22 1	3 10	4 13	2 32	3 8	1 19	11 16	0 7	22 35	0 0	23 4	0 26	14 16	0 42	22 29	0 47	16 24	6 40	23 28	23 26	21 23	17 7	4 31	
S 30	6 46	23 41	2 18	3 32	2 28	3 38	1 18	11 32	0 7	22 34	0 0	23 4	0 26	14 15	0 42	22 29	0 47	16 24	6 40	23 28	23 26	21 24	17 7	4 32	
S 31	7n 8	24s18	1s19	2s51	2s26	4n 8	1s17	11n48	0s 6	22s34	0s 0	23n 4	0s26	14s14	0s42	22n29	0s47	16n24	6s40	23s29	23s26	21s25	17s 6	4n33	

ASTRODIENST EPHEMERIS for the year 1415

geocentric

APRIL 1415 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	13 9 1	19°7'36	29°57'59	0°9'9	14°41'41	1°50'50	16°3'2	2°22'22	24°1'1	8°25'9	18°11'52	3°D13	4°3'23	20°11'50	7°R 8	M 1
T 2	13 12 57	20°6'11	12°3'4	1°52'52	15°55'55	2°34'34	16°6'6	2°26'26	24°4'4	8°10'10	18°53'53	3°R13	4°19'19	20°57'57	7°R 6	T 2
W 3	13 16 54	21°4'44	24°2'4	3°36'36	17°9'9	3°17'17	16°11'11	2°30'30	24°6'6	8°10'10	18°53'53	3°R13	4°16'16	21°4'4	7°3'3	W 3
T 4	13 20 50	22°3'16	7°3'5	5°22'22	18°23'23	4°1'1	16°15'15	2°34'34	24°8'8	8°11'11	18°54'54	3°12'12	4°13'13	21°11'11	7°1'1	T 4
F 5	13 24 47	23°1'46	20°10'10	7°10'10	19°38'38	4°44'44	16°19'19	2°38'38	24°10'10	8°12'12	18°55'55	3°9'9	4°10'10	21°17'17	6°59'59	F 5
S 6	13 28 43	24°0'14	3°4'45	8°59'59	20°52'52	5°28'28	16°23'23	2°42'42	24°12'12	8°13'13	18°56'56	3°4'4	4°7'7	21°24'24	6°56'56	S 6
S 7	13 32 40	24°58'40	17°48'48	10°50'50	22°6'6	6°11'11	16°27'27	2°47'47	24°15'15	8°14'14	18°57'57	2°56'56	4°3'3	21°31'31	6°54'54	S 7
M 8	13 36 36	25°57'05	2°41'19	12°43'43	23°20'20	6°54'54	16°30'30	2°51'51	24°17'17	8°15'15	18°58'58	2°47'47	4°0'0	21°37'37	6°51'51	M 8
T 9	13 40 33	26°55'28	17°12'12	14°38'38	24°34'34	7°38'38	16°34'34	2°56'56	24°19'19	8°15'15	18°59'59	2°37'37	3°57'57	21°44'44	6°49'49	T 9
W10	13 44 29	27°53'49	2°8'19	16°34'34	25°48'48	8°21'21	16°37'37	3°0'0	24°21'21	8°16'16	19°0'0	2°28'28	3°54'54	21°51'51	6°46'46	W10
T 11	13 48 26	28°52'08	17°29'29	18°31'31	27°2'2	9°4'4	16°40'40	3°5'5	24°23'23	8°17'17	19°1'1	2°20'20	3°51'51	21°57'57	6°43'43	T 11
F 12	13 52 23	29°50'26	2°11'33	20°30'30	28°16'16	9°47'47	16°43'43	3°10'10	24°24'24	8°18'18	19°2'2	2°14'14	3°48'48	22°4'4	6°40'40	F 12
S 13	13 56 19	0°8'48	17°22'22	22°31'31	29°30'30	10°31'31	16°45'45	3°15'15	24°26'26	8°20'20	19°3'3	2°11'11	3°44'44	22°11'11	6°37'37	S 13
S 14	14 0 16	1°46'55	1°59'59	24°34'34	0°8'44	11°14'14	16°48'48	3°20'20	24°28'28	8°21'21	19°4'4	2°D10	3°41'41	22°17'17	6°34'34	S 14
M15	14 4 12	2°45'07	15°53'53	26°38'38	1°58'58	11°57'57	16°50'50	3°25'25	24°30'30	8°22'22	19°5'5	2°11'11	3°38'38	22°24'24	6°31'31	M15
T 16	14 8 9	3°43'16	29°34'34	28°43'43	3°12'12	12°40'40	16°52'52	3°30'30	24°32'32	8°23'23	19°6'6	2°R11	3°35'35	22°31'31	6°28'28	T 16
W17	14 12 5	4°41'24	12°52'52	0°8'49	4°26'26	13°22'22	16°54'54	3°35'35	24°33'33	8°24'24	19°7'7	2°11'11	3°32'32	22°37'37	6°25'25	W17
T 18	14 16 2	5°39'29	25°52'52	2°57'57	5°40'40	14°5'5	16°56'56	3°41'41	24°35'35	8°25'25	19°8'8	2°9'9	3°29'29	22°44'44	6°22'22	T 18
F 19	14 19 59	6°37'32	8°13'34	5°5'5	6°54'54	14°48'48	16°57'57	3°46'46	24°37'37	8°26'26	19°9'9	2°5'5	3°25'25	22°51'51	6°18'18	F 19
S 20	14 23 55	7°35'33	21°3'3	7°15'15	8°8'8	15°31'31	16°59'59	3°51'51	24°38'38	8°28'28	19°10'10	1°58'58	3°22'22	22°57'57	6°15'15	S 20
S 21	14 27 52	8°33'33	3°21'21	9°25'25	9°22'22	16°14'14	17°0'0	3°57'57	24°40'40	8°29'29	19°11'11	1°50'50	3°19'19	23°4'4	6°11'11	S 21
M22	14 31 48	9°31'31	15°30'30	11°35'35	10°36'36	16°56'56	17°1'1	4°2'2	24°41'41	8°30'30	19°12'12	1°41'41	3°16'16	23°11'11	6°8'8	M22
T 23	14 35 45	10°29'27	27°32'32	13°46'46	11°50'50	17°39'39	17°2'2	4°8'8	24°42'42	8°32'32	19°13'13	1°31'31	3°13'13	23°17'17	6°4'4	T 23
W24	14 39 41	11°27'21	9°11'28	15°56'56	13°4'4	18°21'21	17°2'2	4°14'14	24°44'44	8°33'33	19°15'15	1°22'22	3°9'9	23°24'24	6°1'1	W24
T 25	14 43 38	12°25'14	21°19'19	18°6'6	14°18'18	19°4'4	17°3'3	4°19'19	24°45'45	8°34'34	19°16'16	1°14'14	3°6'6	23°31'31	5°57'57	T 25
F 26	14 47 34	13°23'06	3°1'9	20°15'15	15°31'31	19°46'46	17°3'3	4°25'25	24°46'46	8°36'36	19°17'17	1°8'8	3°3'3	23°37'37	5°53'53	F 26
S 27	14 51 31	14°20'56	14°58'58	22°23'23	16°45'45	20°29'29	17°R 3	4°31'31	24°48'48	8°37'37	19°18'18	1°5'5	3°0'0	23°44'44	5°49'49	S 27
S 28	14 55 27	15°18'44	26°49'49	24°29'29	17°59'59	21°11'11	17°3'3	4°37'37	24°49'49	8°39'39	19°19'19	1°D 3	2°57'57	23°51'51	5°46'46	S 28
M29	14 59 24	16°16'32	8°3'46	26°35'35	19°13'13	21°53'53	17°2'2	4°43'43	24°50'50	8°40'40	19°21'21	1°3'3	2°54'54	23°57'57	5°42'42	M29
T 30	15 3 21	17°14'18	20°3'53	28°8'38	20°8'27	22°8'36	17°3'2	4°49'49	24°51'51	8°42'42	19°22'22	1°3'5	2°50'50	24°1'4	5°38'38	T 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	7n31	23s48	0s17	2s9	2s24	4n38	1s16	12n4	0s5	22s33	0s1	23n4	0s26	14s13	0s42	22n29
T 2	7s53	22n11	0n47	1s25	2s21	5s8	1s15	12s20	0s5	22s33	0s1	23s4	0s25	14s13	0s42	22s29
W 3	8s15	19s30	1s50	0s40	2s18	5s37	1s14	12s35	0s4	22s33	0s1	23s4	0s25	14s12	0s42	22s29
T 4	8s37	15s49	2s50	0n5	2s14	6s7	1s13	12s51	0s3	22s32	0s1	23s4	0s25	14s11	0s42	22s29
F 5	8s59	11s17	3s42	0s52	2s10	6s36	1s11	13s6	0s3	22s32	0s1	23s4	0s25	14s10	0s43	22s29
S 6	9s20	6s3	4s25	1s40	2s5	7s5	1s10	13s21	0s2	22s32	0s1	23s4	0s25	14s10	0s43	22s29
S 7	9s42	0s21	4s53	2s28	1s59	7s34	1s8	13s36	0s1	22s31	0s1	23s4	0s25	14s9	0s43	22s29
M 8	10s3	5n33	5s3	3s18	1s54	8s3	1s7	13s51	0s1	22s31	0s1	23s4	0s25	14s8	0s43	22s29
T 9	10s25	11s17	4s53	4s8	1s47	8s32	1s5	14s6	0s0	22s31	0s1	23s5	0s24	14s8	0s43	22s29
W10	10s46	16s26	4s23	4s59	1s40	9s1	1s4	14s20	0n0	22s30	0s2	23s5	0s24	14s7	0s43	22s29
T 11	11s6	20s32	3s35	5s51	1s33	9s29	1s2	14s35	0s1	22s30	0s2	23s5	0s24	14s7	0s43	22s29
F 12	11s27	23s12	2s31	6s43	1s25	9s57	1s1	14s49	0s2	22s30	0s2	23s5	0s24	14s6	0s43	22s29
S 13	11s48	24s13	1s18	7s36	1s17	10s25	0s9	15s3	0s2	22s30	0s2	23s5	0s24	14s5	0s43	22s29
S 14	12s8	23s32	0s2	8s29	1s8	10s53	0s57	15s18	0s3	22s29	0s2	23s5	0s24	14s5	0s43	22s29
M15	12s28	21s22	1s13	9s23	0s59	11s20	0s55	15s31	0s4	22s29	0s2	23s5	0s24	14s4	0s43	22s29
T 16	12s48	18s0	2s21	10s17	0s50	11s47	0s53	15s45	0s4	22s29	0s2	23s5	0s24	14s4	0s43	22s29
W17	13s8	13s48	3s20	11s10	0s40	12s14	0s52	15s59	0s5	22s29	0s3	23s5	0s23	14s3	0s43	22s29
T 18	13s27	9s4	4s7	12s4	0s30	12s40	0s50	16s12	0s6	22s29	0s3	23s5	0s23	14s3	0s43	22s29
F 19	13s46	4s3	4s41	12s57	0s20	13s7	0s48	16s26	0s6	22s29	0s3	23s5	0s23	14s2	0s43	22s29
S 20	14s5	1s2	5s0	13s50	0s9	13s33	0s46	16s39	0s7	22s29	0s3	23s5	0s23	14s2	0s43	22s29
S 21	14s24	6s0	5s6	14s42	0n1	13s58	0s44	16s52	0s7	22s29	0s3	23s4	0s23	14s1	0s43	22s29
M22	14s43	10s41	4s57	15s33	0s12	14s23	0s42	17s5	0s8	22s29	0s3	23s4	0s23	14s1	0s43	22s29
T 23	15s1	14s54	4s35	16s23	0s23	14s48	0s39	17s17	0s9	22s29	0s3	23s4	0s23	14s0	0s43	22s29
W24	15s19	18s30	4s2	17s11	0s33	15s13	0s37	17s30	0s9	22s29	0s4	23s4	0s23	14s0	0s43	22s29
T 25	15s37	21s19	3s17	17s58	0s43	15s37	0s35	17s42	0s10	22s29	0s4	23s4	0s22	13s59	0s43	22s29
F 26	15s54	23s13	2s25	18s43	0s53	16s1	0s33	17s54	0s10	22s29	0s4	23s4	0s22	13s59	0s43	22s29
S 27	16s12	24s5	1s26	19s26	1s3	16s24	0s31	18s6	0s11	22s29	0s4	23s4	0s22	13s59	0s43	22s28
S 28	16s29	23s52	0s23	20s7	1s12	16s47	0s29	18s18	0s12	22s30	0s4	23s4	0s22	13s58	0s43	22s28
M29	16s46	22s32	0n42	20s46	1s21	17s10	0s26	18s30	0s12	22s30	0s4	23s4	0s22	13s58	0s43	22s28
T 30	17n2	20s9	1n46	21n23	1n30	17n32	0s24	18n41	0n13	22s30	0s4	23n4	0s22	13s58	0s43	22n28

Julian Day Number = 2237976.5, Delta T = 07m29s

Ecliptic obliquity = 23°30'56, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°34'59, Lahiri = 15°41'59 Julian Calendar 1 Apr. 1415 == Greg. Calendar 10 Apr. 1415

ASTRODIENST EPHEMERIS for the year 1415

geocentric

MAY 1415 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	15 7 17	18°12'03	3°14	0°39	21°41	23°18	17°R 1	4°55	24°52	8°43	19°23	1°3 6	2°47	24°11	5°R34	W 1
T 2	15 11 14	19° 9'46	15°53	2°38	22°54	24° 0	17°3 0	5° 2	24°53	8°45	19°24	1°R 7	2°44	24°17	5°30	T 2
F 3	15 15 10	20° 7'29	28°55	4°35	24° 8	24°42	16°59	5° 8	24°54	8°46	19°26	1° 6	2°41	24°24	5°26	F 3
S 4	15 19 7	21° 5'11	12°24	6°29	25°22	25°24	16°58	5°14	24°55	8°48	19°27	1° 5	2°38	24°31	5°22	S 4
S 5	15 23 3	22° 2'51	26°20	8°21	26°36	26° 6	16°56	5°21	24°56	8°50	19°28	1° 1	2°35	24°38	5°18	S 5
M 6	15 27 0	23° 0'30	10°44	10° 9	27°50	26°48	16°55	5°27	24°57	8°51	19°29	0°56	2°31	24°44	5°14	M 6
T 7	15 30 56	23°58'09	25°33	11°55	29° 3	27°30	16°53	5°34	24°57	8°53	19°31	0°51	2°28	24°51	5°10	T 7
W 8	15 34 53	24°55'46	10°39	13°38	0°117	28°12	16°51	5°40	24°58	8°55	19°32	0°46	2°25	24°58	5° 6	W 8
T 9	15 38 50	25°53'23	25°53	15°18	1°31	28°54	16°49	5°47	24°59	8°56	19°33	0°42	2°22	25° 4	5° 1	T 9
F 10	15 42 46	26°50'58	11°11 5	16°55	2°45	29°36	16°46	5°53	24°59	8°58	19°35	0°39	2°19	25°11	4°57	F 10
S 11	15 46 43	27°48'32	26° 5	18°29	3°58	0°118	16°44	6° 0	25° 0	9° 0	19°36	0°D38	2°15	25°18	4°53	S 11
S 12	15 50 39	28°46'04	10°46	20° 0	5°12	0°59	16°41	6° 7	25° 1	9° 2	19°37	0°38	2°12	25°24	4°49	S 12
M13	15 54 36	29°43'36	25° 3	21°27	6°26	1°41	16°38	6°14	25° 1	9° 3	19°39	0°39	2° 9	25°31	4°45	M13
T 14	15 58 32	0°114'05	8°13	22°52	7°40	2°22	16°35	6°20	25° 1	9° 5	19°40	0°40	2° 6	25°38	4°40	T 14
W15	16 2 29	1°38'34	22°18	24°13	8°53	3° 4	16°31	6°27	25° 2	9° 7	19°41	0°42	2° 3	25°44	4°36	W15
T 16	16 6 26	2°36'01	5°19	25°31	10° 7	3°46	16°28	6°34	25° 2	9° 9	19°43	0°R42	2° 0	25°51	4°32	T 16
F 17	16 10 22	3°33'27	17°59	26°46	11°21	4°27	16°24	6°41	25° 2	9°11	19°44	0°41	1°56	25°58	4°28	F 17
S 18	16 14 19	4°30'51	0°23	27°57	12°34	5° 8	16°20	6°48	25° 3	9°13	19°46	0°39	1°53	26° 4	4°23	S 18
S 19	16 18 15	5°28'15	12°34	29° 5	13°48	5°50	16°16	6°55	25° 3	9°15	19°47	0°36	1°50	26°11	4°19	S 19
M20	16 22 12	6°25'37	24°36	0°9 9	15° 2	6°31	16°12	7° 2	25° 3	9°17	19°48	0°32	1°47	26°18	4°15	M20
T 21	16 26 8	7°22'58	6°13	1°10	16°15	7°12	16° 8	7° 9	25° 3	9°18	19°50	0°28	1°44	26°24	4°11	T 21
W22	16 30 5	8°20'19	18°21	2° 8	17°29	7°54	16° 4	7°17	25°R 3	9°20	19°51	0°25	1°40	26°31	4° 7	W22
T 23	16 34 1	9°17'38	0°11	3° 1	18°42	8°35	15°59	7°24	25° 3	9°22	19°53	0°22	1°37	26°38	4° 2	T 23
F 24	16 37 58	10°14'57	12° 0	3°51	19°56	9°16	15°54	7°31	25° 3	9°24	19°54	0°20	1°34	26°44	3°58	F 24
S 25	16 41 55	11°12'15	23°53	4°37	21°10	9°57	15°49	7°38	25° 3	9°26	19°55	0°19	1°31	26°51	3°54	S 25
S 26	16 45 51	12° 9'32	5°31	5°19	22°23	10°38	15°44	7°46	25° 3	9°28	19°57	0°D19	1°28	26°58	3°50	S 26
M27	16 49 48	13° 6'49	17°56	5°57	23°37	11°19	15°39	7°53	25° 2	9°30	19°58	0°19	1°25	27° 4	3°46	M27
T 28	16 53 44	14° 4'05	0°11	6°31	24°50	12° 0	15°33	8° 0	25° 2	9°32	20° 0	0°21	1°21	27°11	3°42	T 28
W29	16 57 41	15° 1'21	12°39	7° 0	26° 4	12°41	15°28	8° 8	25° 2	9°35	20° 1	0°22	1°18	27°18	3°37	W29
T 30	17 1 37	15°58'36	25°23	7°25	27°18	13°22	15°22	8°15	25° 2	9°37	20° 3	0°23	1°15	27°24	3°33	T 30
F 31	17 5 34	16°11'55	8°11	7°26	28°11	14°11 3	15°16	8°23	25° 1	9°39	20°11 4	0°24	1°12	27°31	3°29	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	17n18	16s49	2n46	21n57	1n38	17n53	0s22	18n52	0n14	22s30	0s 5	23n 4	0s22	13s57	0s43	22n28
T 2	17 34	12 38	3 39	22 28	1 45	18 15	0 19	19 4	0 14	22 30	0 5	23 4	0 22	13 57	0 43	22 28
F 3	17 50	7 46	4 23	22 57	1 51	18 35	0 17	19 15	0 15	22 31	0 5	23 3	0 21	13 57	0 44	22 28
S 4	18 5	2 24	4 55	23 23	1 57	18 56	0 15	19 25	0 15	22 31	0 5	23 3	0 21	13 56	0 44	22 28
S 5	18 20	3n16	5 10	23 47	2 2	19 15	0 12	19 36	0 16	22 31	0 5	23 3	0 21	13 56	0 44	22 28
M 6	18 35	8 57	5 6	24 8	2 6	19 34	0 10	19 46	0 17	22 32	0 5	23 3	0 21	13 56	0 44	22 28
T 7	18 49	14 17	4 43	24 26	2 10	19 53	0 8	19 57	0 17	22 32	0 5	23 3	0 21	13 56	0 44	22 28
W 8	19 4	18 51	3 59	24 42	2 13	20 11	0 5	20 7	0 18	22 32	0 6	23 3	0 21	13 56	0 44	22 28
T 9	19 17	22 10	2 58	24 56	2 15	20 29	0 3	20 16	0 18	22 33	0 6	23 3	0 21	13 55	0 44	22 28
F 10	19 31	23 54	1 45	25 7	2 16	20 46	0 1	20 26	0 19	22 33	0 6	23 2	0 21	13 55	0 44	22 27
S 11	19 44	23 52	0 25	25 17	2 16	21 2	0n 2	20 36	0 19	22 34	0 6	23 2	0 21	13 55	0 44	22 27
S 12	19 57	22 10	0s55	25 24	2 16	21 18	0 4	20 45	0 20	22 34	0 6	23 2	0 20	13 55	0 44	22 27
M13	20 9	19 4	2 10	25 29	2 15	21 34	0 7	20 54	0 21	22 35	0 6	23 2	0 20	13 55	0 44	22 27
T 14	20 22	14 58	3 14	25 32	2 13	21 48	0 9	21 3	0 21	22 35	0 6	23 2	0 20	13 55	0 44	22 27
W15	20 33	10 14	4 6	25 33	2 10	22 2	0 11	21 12	0 22	22 36	0 7	23 1	0 20	13 55	0 44	22 27
T 16	20 45	5 12	4 44	25 32	2 6	22 16	0 14	21 20	0 22	22 37	0 7	23 1	0 20	13 55	0 44	22 27
F 17	20 56	0 4	5 6	25 30	2 1	22 29	0 16	21 28	0 23	22 37	0 7	23 1	0 20	13 54	0 44	22 27
S 18	21 7	4s57	5 14	25 26	1 56	22 41	0 19	21 37	0 23	22 38	0 7	23 1	0 20	13 54	0 44	22 27
S 19	21 17	9 41	5 7	25 21	1 50	22 53	0 21	21 44	0 24	22 38	0 7	23 0	0 20	13 54	0 44	22 27
M20	21 27	14 0	4 47	25 14	1 43	23 3	0 23	21 52	0 25	22 39	0 7	23 0	0 20	13 54	0 44	22 26
T 21	21 37	17 44	4 14	25 6	1 36	23 14	0 26	22 0	0 25	22 40	0 8	23 0	0 19	13 54	0 44	22 26
W22	21 46	20 43	3 31	24 57	1 27	23 23	0 28	22 7	0 26	22 40	0 8	23 0	0 19	13 54	0 44	22 26
T 23	21 55	22 50	2 39	24 47	1 18	23 32	0 30	22 14	0 26	22 41	0 8	22 59	0 19	13 55	0 44	22 26
F 24	22 3	23 57	1 39	24 35	1 8	23 40	0 33	22 21	0 27	22 42	0 8	22 59	0 19	13 55	0 44	22 26
S 25	22 12	23 58	0 35	24 23	0 57	23 48	0 35	22 28	0 27	22 43	0 8	22 59	0 19	13 55	0 44	22 26
S 26	22 19	22 53	0n31	24 10	0 46	23 55	0 37	22 34	0 28	22 43	0 8	22 58	0 19	13 55	0 44	22 26
M27	22 27	20 43	1 36	23 57	0 34	24 1	0 39	22 41	0 28	22 44	0 8	22 58	0 19	13 55	0 44	22 26
T 28	22 34	17 36	2 38	23 42	0 21	24 6	0 42	22 47	0 29	22 45	0 9	22 58	0 19	13 55	0 45	22 25
W29	22 40	13 39	3 33	23 27	0 8	24 11	0 44	22 53	0 30	22 46	0 9	22 57	0 19	13 55	0 45	22 25
T 30	22 46	9 1	4 20	23 12	0s 6	24 15	0 46	22 58	0 30	22 46	0 9	22 57	0 19	13 55	0 45	22 25
F 31	22n52	3s53	4n54	22n56	0s21	24n18	0n48	23n 4	0n31	22s47	0s 9	22n57	0s18	13s55	0s45	22n25

Julian Day Number = 2238006.5, Delta T = 07m28s

Ecliptic obliquity = 23°30'55", Nutation = 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°35'03", Lahiri = 15°42'03" Julian Calendar 1 May 1415 == Greg. Calendar 10 May 1415

ASTRODIENST EPHEMERIS for the year 1415
geocentric

JUNE 1415 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 9 30	17II53°05	21K52	8♂2	29II45	14II44	15°R10	8♂30	25°R 1	9♂41	20II 5	0°R24	1♂9	27M38	3°R25	S 1
S 2	17 13 27	18°50'20	5Y40	8°14	0♂58	15°24	15♂4	8°38	25≈ 0	9°43	20° 7	0♂23	1° 6	27°44	3♂21	S 2
M 3	17 17 24	19°47'34	19°52	8°21	2°12	16° 5	14°58	8°45	25° 0	9°45	20° 8	0°23	1° 2	27°51	3°17	M 3
T 4	17 21 20	20°44'48	4♂26	8°R24	3°25	16°46	14°52	8°53	24°59	9°47	20°10	0°21	0°59	27°58	3°13	T 4
W 5	17 25 17	21°42'02	19°18	8°22	4°39	17°26	14°45	9° 0	24°58	9°49	20°11	0°20	0°56	28° 4	3°10	W 5
T 6	17 29 13	22°39'16	4II20	8°16	5°53	18° 7	14°39	9° 8	24°58	9°51	20°13	0°20	0°53	28°11	3° 6	T 6
F 7	17 33 10	23°36'30	19°25	8° 5	7° 6	18°47	14°32	9°15	24°57	9°54	20°14	0°19	0°50	28°18	3° 2	F 7
S 8	17 37 6	24°33'43	4♂23	7°50	8°20	19°28	14°26	9°23	24°56	9°56	20°16	0°D19	0°46	28°24	2°58	S 8
S 9	17 41 3	25°30'56	19° 7	7°31	9°33	20° 8	14°19	9°31	24°55	9°58	20°17	0°19	0°43	28°31	2°54	S 9
M10	17 44 59	26°28'09	3♂29	7° 9	10°47	20°49	14°12	9°38	24°55	10° 0	20°18	0°20	0°40	28°38	2°51	M10
T 11	17 48 56	27°25'21	17°27	6°43	12° 0	21°29	14° 5	9°46	24°54	10° 2	20°20	0°20	0°37	28°44	2°47	T 11
W12	17 52 53	28°22'33	0♂59	6°14	13°14	22°10	13°58	9°54	24°53	10° 4	20°21	0°20	0°34	28°51	2°44	W12
T 13	17 56 49	29°19'44	14° 6	5°42	14°27	22°50	13°50	10° 2	24°52	10° 7	20°23	0°20	0°31	28°58	2°40	T 13
F 14	18 0 46	0♂16'55	26°49	5° 8	15°41	23°30	13°43	10° 9	24°51	10° 9	20°24	0°20	0°27	29° 4	2°37	F 14
S 15	18 4 42	1°14'05	9♂14	4°33	16°54	24°10	13°36	10°17	24°50	10°11	20°26	0°20	0°24	29°11	2°33	S 15
S 16	18 8 39	2°11'15	21°23	3°56	18° 8	24°51	13°28	10°25	24°48	10°13	20°27	0°21	0°21	29°18	2°30	S 16
M17	18 12 35	3° 8'25	3M21	3°19	19°21	25°31	13°21	10°33	24°47	10°15	20°28	0°21	0°18	29°24	2°27	M17
T 18	18 16 32	4° 5'35	15°13	2°43	20°34	26°11	13°13	10°40	24°46	10°18	20°30	0°21	0°15	29°31	2°23	T 18
W19	18 20 28	5° 2'45	27° 2	2° 7	21°48	26°51	13° 6	10°48	24°45	10°20	20°31	0°22	0°12	29°38	2°20	W19
T 20	18 24 25	5°59'54	8♂52	1°33	23° 1	27°31	12°58	10°56	24°43	10°22	20°33	0°22	0° 8	29°44	2°17	T 20
F 21	18 28 22	6°57'04	20°46	1° 1	24°15	28°11	12°51	11° 4	24°42	10°24	20°34	0°22	0° 5	29°51	2°14	F 21
S 22	18 32 18	7°54'13	2♂45	0°32	25°28	28°51	12°43	11°12	24°41	10°27	20°35	0°R23	0° 2	29°58	2°11	S 22
S 23	18 36 15	8°51'23	14°54	0° 6	26°41	29°31	12°35	11°19	24°39	10°29	20°37	0°22	29♂59	0♂4	2° 8	S 23
M24	18 40 11	9°48'33	27°12	29II43	27°55	0♂11	12°28	11°27	24°38	10°31	20°38	0°22	29°56	0°11	2° 5	M24
T 25	18 44 8	10°45'43	9♂43	29°25	29° 8	0°50	12°20	11°35	24°36	10°33	20°39	0°20	29°52	0°18	2° 3	T 25
W26	18 48 4	11°42'54	22°26	29°11	0♂22	1°30	12°12	11°43	24°35	10°35	20°41	0°19	29°49	0°24	2° 0	W26
T 27	18 52 1	12°40'05	5K23	29° 2	1°35	2°10	12° 5	11°51	24°33	10°38	20°42	0°17	29°46	0°31	1°57	T 27
F 28	18 55 57	13°37'17	18°36	28°D58	2°48	2°50	11°57	11°58	24°32	10°40	20°43	0°16	29°43	0°38	1°55	F 28
S 29	18 59 54	14°34'29	2Y 5	29° 0	4° 2	3°29	11°49	12° 6	24°30	10°42	20°45	0°15	29°40	0°44	1°53	S 29
S 30	19 3 51	15♂31'42	15Y51	29II 6	5♂15	4♂9	11♂41	12♂14	24≈28	10♂44	20II46	0°D15	29♂37	0♂51	1♂50	S 30

Day	☉	☾			♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	22n58	1n34	5n13	22n40	0s36	24n21	0n50	23n 9	0n31	22s48	0s 9	22n56	0s18	13s56	0s45	22n25	0s45	16n37	6s32	23s31	23s31	22s28	16s 6	4n54								
S 2	23 3	7 5	5 16	22 24	0 51	24 23	0 52	23 14	0 32	22 49	0 9	22 56	0 18	13 56	0 45	22 25	0 45	16 38	6 32	23 31	23 31	22 29	16 5	4 54								
M 3	23 7	12 24	4 59	22 8	1 7	24 24	0 54	23 19	0 32	22 50	0 10	22 55	0 18	13 56	0 45	22 25	0 45	16 38	6 32	23 31	23 31	22 29	16 4	4 54								
T 4	23 11	17 9	4 23	21 52	1 23	24 24	0 56	23 24	0 33	22 51	0 10	22 55	0 18	13 56	0 45	22 25	0 45	16 38	6 32	23 31	23 31	22 30	16 3	4 54								
W 5	23 15	20 57	3 29	21 36	1 40	24 24	0 58	23 28	0 33	22 52	0 10	22 55	0 18	13 57	0 45	22 24	0 45	16 38	6 32	23 31	23 31	22 31	16 2	4 54								
T 6	23 19	23 22	2 19	21 20	1 56	24 23	1 0	23 33	0 34	22 52	0 10	22 54	0 18	13 57	0 45	22 24	0 45	16 38	6 32	23 31	23 31	22 32	16 2	4 54								
F 7	23 22	24 5	1 0	21 4	2 12	24 21	1 2	23 37	0 34	22 53	0 10	22 54	0 18	13 57	0 45	22 24	0 45	16 38	6 32	23 31	23 31	22 33	16 1	4 54								
S 8	23 24	23 4	0s23	20 49	2 29	24 19	1 4	23 41	0 35	22 54	0 10	22 53	0 18	13 57	0 45	22 24	0 45	16 38	6 32	23 31	23 31	22 33	16 0	4 54								
S 9	23 26	20 27	1 43	20 34	2 45	24 16	1 6	23 44	0 35	22 55	0 11	22 53	0 18	13 58	0 45	22 24	0 45	16 39	6 32	23 31	23 31	22 34	16 0	4 54								
M10	23 28	16 37	2 54	20 19	3 0	24 12	1 7	23 48	0 36	22 56	0 11	22 52	0 17	13 58	0 45	22 24	0 45	16 39	6 32	23 31	23 31	22 35	15 59	4 54								
T 11	23 29	11 57	3 53	20 6	3 15	24 7	1 9	23 51	0 36	22 57	0 11	22 52	0 17	13 58	0 45	22 24	0 45	16 39	6 32	23 31	23 31	22 36	15 58	4 54								
W12	23 30	6 50	4 37	19 53	3 30	24 2	1 11	23 54	0 37	22 58	0 11	22 51	0 17	13 59	0 45	22 23	0 45	16 39	6 32	23 31	23 31	22 37	15 58	4 54								
T 13	23 31	1 35	5 5	19 41	3 43	23 56	1 12	23 57	0 37	22 59	0 11	22 51	0 17	13 59	0 45	22 23	0 45	16 39	6 32	23 31	23 31	22 37	15 57	4 54								
F 14	23 31	3s35	5 17	19 30	3 55	23 49	1 14	23 59	0 38	23 0	0 11	22 50	0 17	13 59	0 45	22 23	0 45	16 39	6 32	23 31	23 31	22 38	15 56	4 54								
S 15	23 31	8 28	5 14	19 20	4 7	23 41	1 15	24 2	0 38	23 1	0 11	22 50	0 17	14 0	0 45	22 23	0 45	16 39	6 32	23 31	23 31	22 39	15 56	4 54								
S 16	23 30	12 56	4 57	19 11	4 17	23 33	1 17	24 4	0 39	23 1	0 12	22 49	0 17	14 0	0 45	22 23	0 45	16 40	6 32	23 31	23 31	22 40	15 55	4 54								
M17	23 29	16 51	4 27	19 3	4 25	23 24	1 18	24 6	0 39	23 2	0 12	22 49	0 17	14 1	0 45	22 23	0 45	16 40	6 32	23 31	23 31	22 40	15 55	4 54								
T 18	23 27	20 2	3 45	18 57	4 33	23 15	1 20	24 8	0 40	23 3	0 12	22 48	0 17	14 1	0 45	22 22	0 45	16 40	6 32	23 31	23 31	22 41	15 54	4 54								
W19	23 25	22 23	2 55	18 52	4 38	23 5	1 21	24 9	0 40	23 4	0 12	22 48	0 17	14 2	0 45	22 22	0 44	16 40	6 32	23 31	23 31	22 42	15 53	4 54								
T 20	23 23	23 46	1 57	18 48	4 42	22 54	1 22	24 10	0 41	23 5	0 12	22 47	0 17	14 2	0 45	22 22	0 44	16 40	6 32	23 31	23 31	22 42	15 53	4 54								
F 21	23 20	24 5	0 53	18 46	4 45	22 42	1 23	24 12	0 41	23 6	0 12	22 47	0 16	14 3	0 45	22 22	0 44	16 40	6 32	23 31	23 31	22 43	15 53	4 54								
S 22	23 17	23 16	0n13	18 45	4 46	22 30	1 24	24 13	0 42	23 7	0 13	22 46	0 16	14 3	0 45	22 22	0 44	16 40	6 32	23 31	23 31	22 44	15 52	4 54								
S 23	23 13	21 22	1 20	18 46	4 45	22 17	1 26	24 13	0 42	23 8	0 13	22 46	0 16	14 3	0 45	22 22	0 44	16 40	6 32	23 31	23 31	22 44	15 52	4 53								
M24	23 9	18 26	2 23	18 48	4 43	22 3	1 27	24 14	0 43	23 9	0 13	22 45	0 16	14 4	0 45	22 22	0 44	16 40	6 32	23 31	23 31	22 45	15 51	4 53								
T 25	23 5	14 39	3 21	18 51	4 39	21 49	1 27	24 14	0 43	23 9	0 13	22 44	0 16	14 5	0 46	22 21	0 44	16 40	6 32	23 31	23 31	22 46	15 51	4 53								
W26	23 0	10 8	4 10	18 56	4 34	21 35	1 28	24 14	0 44	23 10	0 13	22 44	0 16	14 5	0 46	22 21	0 44	16 41	6 32	23 31	23 31	22 47	15 50	4 53								
T 27	22 55	5 7	4 47	19 3	4 28	21 19	1 29	24 14	0 44	23 11	0 13	22 43	0 16	14 6	0 46	22 21	0 44	16 41	6 32	23 31	23 31	22 47	15 50	4 53								
F 28	22 49	0n14	5 10	19 10	4 20	21 3	1 30	24 14	0 45	23 12	0 13	22 43	0 16	14 6	0 46	22 21	0 44	16 41	6 32	23 31	23 31	22 48	15 50	4 53								
S 29	22 43	5 40	5 16	19 19	4 12	20 47	1 31	24 13	0 45	23 13	0 14	22 42	0 16	14 7	0 46	22 21	0 44	16 41	6 32	23 31	23 31	22 48	15 49	4 53								
S 30	22n37	10n56	5n 5	19n29	4s 2	20n29	1n31	24n13	0n46	23s14	0s14	22n41	0s16	14s 7	0s46	22n21	0s44	16n41	6s32	23s31	23s31	22s49	15s49	4n52								

ASTRODIENST EPHEMERIS for the year 1415

geocentric

JULY 1415 JC

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Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	19 7 47	16°28'56	29°53'	29°11'19	6°12'28	4°52'49	11°R34	12°22'	24°R27	10°47'	20°11'47	0°15'	29°21'33	0°15'58	1°R48	M 1
T 2	19 11 44	17°26'10	14°18'11	29°36'	7°42'	5°28'	11°26'	12°30'	24°22'55	10°49'	20°49'	0°16'	29°30'	1° 4'	1°46'	T 2
W 3	19 15 40	18°23'26	28°43'	29°59'	8°55'	6° 8'	11°18'	12°37'	24°23'	10°51'	20°50'	0°17'	29°27'	1°11'	1°43'	W 3
T 4	19 19 37	19°20'42	13°11'23	0°29'	10° 8'	6°47'	11°11'	12°45'	24°21'	10°53'	20°51'	0°18'	29°24'	1°18'	1°41'	T 4
F 5	19 23 33	20°17'59	28° 8'	1° 4'	11°21'	7°27'	11° 3'	12°53'	24°20'	10°55'	20°53'	0°R19	29°21'	1°24'	1°39'	F 5
S 6	19 27 30	21°15'17	12°50'	1°44'	12°35'	8° 6'	10°56'	13° 1'	24°18'	10°58'	20°54'	0°18'	29°18'	1°31'	1°38'	S 6
S 7	19 31 27	22°12'35	27°23'	2°30'	13°48'	8°46'	10°48'	13° 9'	24°16'	11° 0'	20°55'	0°17'	29°14'	1°38'	1°36'	S 7
M 8	19 35 23	23° 9'54	11°40'	3°21'	15° 1'	9°25'	10°41'	13°16'	24°14'	11° 2'	20°56'	0°15'	29°11'	1°44'	1°34'	M 8
T 9	19 39 20	24° 7'13	25°37'	4°18'	16°14'	10° 4'	10°33'	13°24'	24°12'	11° 4'	20°58'	0°11'	29° 8'	1°51'	1°32'	T 9
W10	19 43 16	25° 4'33	9°11'	5°20'	17°28'	10°44'	10°26'	13°32'	24°10'	11° 6'	20°59'	0° 8'	29° 5'	1°58'	1°31'	W10
T 11	19 47 13	26° 1'54	22°20'	6°28'	18°41'	11°23'	10°19'	13°40'	24° 8'	11° 9'	21° 0'	0° 4'	29° 2'	2° 4'	1°29'	T 11
F 12	19 51 9	26°59'15	5°47'	7°40'	19°54'	12° 2'	10°12'	13°47'	24° 6'	11°11'	21° 1'	0° 2'	28°58'	2°11'	1°28'	F 12
S 13	19 55 6	27°56'36	17°33'	8°58'	21° 7'	12°41'	10° 5'	13°55'	24° 4'	11°13'	21° 2'	0° 0'	28°55'	2°18'	1°27'	S 13
S 14	19 59 2	28°53'58	29°43'	10°21'	22°20'	13°21'	9°58'	14° 3'	24° 2'	11°15'	21° 4'	29°D59	28°52'	2°24'	1°26'	S 14
M15	20 2 59	29°51'21	11°41'	11°48'	23°34'	14° 0'	9°51'	14°10'	24° 0'	11°17'	21° 5'	0° 0'	28°49'	2°31'	1°25'	M15
T 16	20 6 56	0°48'45	23°32'	13°20'	24°47'	14°39'	9°44'	14°18'	23°58'	11°19'	21° 6'	0° 2'	28°46'	2°38'	1°24'	T 16
W17	20 10 52	1°46'09	5°21'	14°56'	26° 0'	15°18'	9°38'	14°25'	23°56'	11°22'	21° 7'	0° 3'	28°43'	2°44'	1°23'	W17
T 18	20 14 49	2°43'34	17°13'	16°36'	27°13'	15°57'	9°31'	14°33'	23°53'	11°24'	21° 8'	0° 5'	28°39'	2°51'	1°22'	T 18
F 19	20 18 45	3°41'00	29°11'	18°20'	28°26'	16°36'	9°25'	14°41'	23°51'	11°26'	21° 9'	0°R 6	28°36'	2°58'	1°21'	F 19
S 20	20 22 42	4°38'26	11°19'	20° 7'	29°39'	17°15'	9°18'	14°48'	23°49'	11°28'	21°10'	0° 5'	28°33'	3° 4'	1°20'	S 20
S 21	20 26 38	5°35'54	23°40'	21°58'	0°52'	17°54'	9°12'	14°56'	23°47'	11°30'	21°12'	0° 3'	28°30'	3°11'	1°20'	S 21
M22	20 30 35	6°33'22	6°15'	23°51'	2° 5'	18°33'	9° 6'	15° 3'	23°45'	11°32'	21°13'	29°59'	28°27'	3°18'	1°19'	M22
T 23	20 34 31	7°30'52	19° 5'	25°47'	3°18'	19°11'	9° 0'	15°10'	23°42'	11°34'	21°14'	29°54'	28°24'	3°24'	1°19'	T 23
W24	20 38 28	8°28'22	2°10'	27°44'	4°31'	19°50'	8°54'	15°18'	23°40'	11°36'	21°15'	29°47'	28°20'	3°31'	1°19'	W24
T 25	20 42 25	9°25'54	15°29'	29°44'	5°44'	20°29'	8°48'	15°25'	23°38'	11°38'	21°16'	29°41'	28°17'	3°38'	1°19'	T 25
F 26	20 46 21	10°23'28	29° 0'	1°44'	6°57'	21° 8'	8°43'	15°33'	23°35'	11°40'	21°17'	29°35'	28°14'	3°44'	1°D19	F 26
S 27	20 50 18	11°21'02	12°43'	3°46'	8°10'	21°47'	8°37'	15°40'	23°33'	11°42'	21°18'	29°31'	28°11'	3°51'	1°19'	S 27
S 28	20 54 14	12°18'39	26°35'	5°48'	9°23'	22°25'	8°32'	15°47'	23°31'	11°44'	21°19'	29°28'	28° 8'	3°58'	1°19'	S 28
M29	20 58 11	13°16'16	10°33'	7°50'	10°35'	23° 4'	8°27'	15°55'	23°28'	11°46'	21°20'	29°D27	28° 4'	4° 4'	1°19'	M29
T 30	21 2 7	14°13'56	24°45'	9°53'	11°48'	23°43'	8°22'	16° 2'	23°26'	11°48'	21°21'	29°27'	28° 1'	4°11'	1°19'	T 30
W31	21 6 4	15°11'37	8°15'	11°55'	13°11'	24°21'	8°17'	16° 9'	23°24'	11°50'	21°22'	29°28'	27°58'	4°17'	1°20'	W31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	22n30	15n45	4n35	19n39	3s51	20n12	1n32	24n12	0n46	23s14	0s14	22n41	0s16	14s 8	0s46	22n20	0s44	16n41	6s32	23s31	23s31	22s50	15s49	4n52			
T 2	22 22	19 46	3 48	19 51	3 40	19 53	1 32	24 11	0 47	23 15	0 14	22 40	0 16	14 9	0 46	22 20	0 44	16 41	6 32	23 31	23 31	22 50	15 48	4 52			
W 3	22 15	22 38	2 46	20 3	3 28	19 35	1 33	24 10	0 47	23 16	0 14	22 39	0 15	14 9	0 46	22 20	0 44	16 41	6 32	23 31	23 31	22 51	15 48	4 52			
T 4	22 7	24 0	1 32	20 16	3 15	19 15	1 33	24 8	0 48	23 17	0 14	22 39	0 15	14 10	0 46	22 20	0 44	16 41	6 32	23 31	23 31	22 52	15 48	4 52			
F 5	21 59	23 42	0 12	20 29	3 2	18 55	1 33	24 6	0 48	23 18	0 14	22 38	0 15	14 10	0 46	22 20	0 44	16 41	6 32	23 31	23 31	22 52	15 48	4 52			
S 6	21 50	21 45	1s 9	20 42	2 48	18 35	1 33	24 4	0 49	23 18	0 15	22 37	0 15	14 11	0 46	22 19	0 44	16 41	6 32	23 31	23 31	22 53	15 48	4 51			
S 7	21 41	18 24	2 24	20 56	2 34	18 14	1 34	24 2	0 49	23 19	0 15	22 37	0 15	14 12	0 46	22 19	0 44	16 41	6 32	23 31	23 31	22 54	15 47	4 51			
M 8	21 31	14 0	3 28	21 9	2 20	17 52	1 34	24 0	0 50	23 20	0 15	22 36	0 15	14 12	0 46	22 19	0 44	16 41	6 32	23 31	23 31	22 54	15 47	4 51			
T 9	21 21	8 57	4 19	21 22	2 5	17 30	1 34	23 58	0 50	23 21	0 15	22 35	0 15	14 13	0 46	22 19	0 44	16 41	6 32	23 31	23 31	22 55	15 47	4 51			
W10	21 11	3 37	4 54	21 34	1 50	17 8	1 34	23 55	0 50	23 21	0 15	22 35	0 15	14 14	0 46	22 19	0 44	16 41	6 32	23 31	23 31	22 55	15 47	4 51			
T 11	21 1	1s43	5 11	21 46	1 36	16 45	1 33	23 52	0 51	23 22	0 15	22 34	0 15	14 14	0 46	22 19	0 44	16 42	6 32	23 31	23 31	22 56	15 47	4 50			
F 12	20 50	6 49	5 13	21 57	1 21	16 22	1 33	23 49	0 51	23 23	0 15	22 33	0 15	14 15	0 46	22 18	0 44	16 42	6 32	23 31	23 31	22 56	15 47	4 50			
S 13	20 38	11 31	5 0	22 6	1 6	15 58	1 33	23 46	0 52	23 23	0 15	22 33	0 15	14 16	0 46	22 18	0 44	16 42	6 32	23 31	23 31	22 57	15 47	4 50			
S 14	20 27	15 39	4 33	22 15	0 52	15 34	1 33	23 43	0 52	23 24	0 16	22 32	0 15	14 17	0 46	22 18	0 44	16 42	6 32	23 31	23 31	22 58	15 47	4 50			
M15	20 15	19 6	3 55	22 22	0 38	15 9	1 32	23 39	0 53	23 25	0 16	22 31	0 14	14 17	0 46	22 18	0 44	16 42	6 32	23 31	23 31	22 58	15 47	4 49			
T 16	20 2	21 44	3 7	22 27	0 24	14 45	1 32	23 35	0 53	23 25	0 16	22 30	0 14	14 18	0 46	22 18	0 44	16 42	6 32	23 31	23 31	22 59	15 47	4 49			
W17	19 50	23 25	2 11	22 30	0 11	14 19	1 31	23 31	0 54	23 26	0 16	22 30	0 14	14 19	0 46	22 18	0 44	16 42	6 32	23 31	23 31	22 59	15 47	4 49			
T 18	19 37	24 4	1 10	22 31	0n 2	13 53	1 30	23 27	0 54	23 26	0 16	22 29	0 14	14 19	0 46	22 17	0 44	16 42	6 32	23 31	23 30	23 0	15 47	4 49			
F 19	19 23	23 36	0 5	22 29	0 14	13 27	1 30	23 23	0 54	23 27	0 16	22 28	0 14	14 20	0 46	22 17	0 44	16 42	6 32	23 31	23 30	23 0	15 47	4 48			
S 20	19 10	22 1	1n 1	22 26	0 26	13 1	1 29	23 18	0 55	23 28	0 16	22 27	0 14	14 21	0 46	22 17	0 44	16 42	6 32	23 31	23 30	23 1	15 47	4 48			
S 21	18 56	19 23	2 5	22 19	0 37	12 34	1 28	23 14	0 55	23 28	0 16	22 27	0 14	14 22	0 46	22 17	0 44	16 42	6 32	23 31	23 30	23 1	15 48	4 48			
M22	18 42	15 48	3 4	22 11	0 47	12 7	1 27	23 9	0 56	23 29	0 17	22 26	0 14	14 22	0 46	22 17	0 44	16 42	6 32	23 31	23 30	23 2	15 48	4 48			
T 23	18 27	11 25	3 55	21 59	0 57	11 40	1 26	23 4	0 56	23 29	0 17	22 25	0 14	14 23	0 46	22 16	0 44	16 42	6 32	23 31	23 30	23 2	15 48	4 47			
W24	18 12	6 27	4 35	21 45	1 5	11 12	1 25	22 59	0 57	23 30	0 17	22 24	0 14	14 24	0 46	22 16	0 44	16 42	6 32	23 31	23 30	23 3	15 48	4 47			
T 25	17 57	1 8	5 0	21 28	1 13	10 44	1 24	22 53	0 57	23 30	0 17	22 24	0 14	14 25	0 46	22 16	0 44	16 42	6 33	23 31	23 30	23 3	15 48	4 47			
F 26	17 41	4n20	5 10	21 8	1 20	10 16	1 22	22 48	0 57	23 31	0 17	22 23	0 14	14 26	0 46	22 16	0 44	16 42	6 33	23 31	23 30	23 4	15 49	4 47			
S 27	17 26	9 40	5 2	20 46	1 26	9 47	1 21	22 42	0 58	23 31	0 17	22 22	0 13	14 26	0 46	22 16	0 44	16 42	6 33	23 31	23 30	23 4	15 49	4 46			
S 28	17 10	14 34	4 36	20 21	1 31	9 19	1 20	22 36	0 58	23 32	0 17	22 21	0 13	14 27	0 46	22 16	0 44	16 42	6 33	23 31	23 30	23 5	15 49	4 46			
M29	16 53	18 45	3 54	19 55	1 36	8 50	1 18	22 30	0 59	23 32	0 17	22 21	0 13	14 28	0 46	22 15	0 44	16 42	6 33	23 31	23 30	23 5	15 49	4 46			
T 30	16 37	21 52	2 57	19 25	1 39	8 20	1 17	22 24	0 59	23 32	0 17	22 20	0 13	14 29	0 46	22 15	0 44	16 42	6 33	23 31	23 30	23 6	15 50	4 45			
W31	16n20	23n39	1n49	18n54	1n42	7n51	1n15	22n17	0n59	23s33	0s18	22n19	0s13	14s29	0s46	22n15	0s44	16n42	6s33	23s31	23s30	23s 6	15s50	4n45			

ASTRODIENST EPHEMERIS for the year 1415

geocentric

AUGUST 1415 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	21 10 0	16°09'20"	23°11'17"	13°05'57"	14°11'14"	25°00'00"	8°12'12"	16°05'16"	23°12'21"	11°05'52"	21°11'23"	29°12'29"	27°12'55"	4°12'24"	1°12'20"	T 1
F 2	21 13 57	17°07'05"	7°03'37"	15°05'58"	15°05'27"	25°33'38"	8°08'08"	16°02'23"	23°13'19"	11°05'54"	21°02'23"	29°12'29"	27°05'52"	4°03'31"	1°02'21"	F 2
S 3	21 17 54	18°04'51"	21°05'55"	17°05'59"	16°04'40"	26°17'17"	8°04'04"	16°03'30"	23°13'17"	11°05'56"	21°02'24"	29°12'27"	27°04'49"	4°03'37"	1°02'21"	S 3
S 4	21 21 50	19°02'38"	6°06'06"	19°05'58"	17°05'52"	26°55'55"	7°05'59"	16°03'37"	23°14'14"	11°05'58"	21°02'25"	29°12'23"	27°04'45"	4°04'44"	1°02'22"	S 4
M 5	21 25 47	20°02'07"	20°06'06"	21°05'57"	19°05'50"	27°34'55"	7°05'55"	16°04'44"	23°12'12"	11°05'59"	21°02'26"	29°12'16"	27°04'42"	4°05'51"	1°02'23"	M 5
T 6	21 29 43	20°58'18"	3°11'37"	23°05'54"	20°18'18"	28°12'7"	7°05'16"	16°05'51"	23°09'09"	12°01'12"	21°02'27"	29°08'08"	27°03'39"	4°05'57"	1°02'24"	T 6
W 7	21 33 40	21°56'09"	17°16'16"	25°05'50"	21°31'28"	28°51'7"	7°04'48"	16°05'58"	23°07'07"	12°03'12"	21°02'28"	28°05'59"	27°03'36"	5°04'04"	1°02'25"	W 7
T 8	21 37 36	22°54'03"	0°02'22"	27°04'45"	22°43'29"	29°29'7"	7°04'44"	17°05'23"	23°05'12"	12°05'12"	21°02'28"	28°05'50"	27°03'33"	5°05'11"	1°02'26"	T 8
F 9	21 41 33	23°51'57"	13°07'25"	29°39'53"	23°56'00"	0°00'00"	7°04'17"	17°12'23"	23°02'12"	12°07'12"	21°02'29"	28°04'43"	27°03'30"	5°05'17"	1°02'28"	F 9
S 10	21 45 29	24°49'53"	25°32'11"	1°11'31"	25°08'04"	0°04'06"	7°03'38"	17°19'23"	23°00'12"	12°08'12"	21°02'30"	28°03'37"	27°02'26"	5°05'24"	1°02'29"	S 10
S 11	21 49 26	25°47'50"	7°11'42"	3°02'23"	26°21'26"	1°24'24"	7°03'35"	17°25'25"	22°05'57"	12°10'10"	21°02'31"	28°03'33"	27°02'23"	5°05'31"	1°02'30"	S 11
M12	21 53 22	26°45'49"	19°40'50"	5°12'27"	27°34'27"	2°02'22"	7°03'32"	17°32'32"	22°05'55"	12°12'12"	21°02'31"	28°03'31"	27°02'20"	5°05'37"	1°02'32"	M12
T 13	21 57 19	27°43'49"	1°12'31"	7°01'28"	28°46'24"	2°41'24"	7°03'30"	17°39'39"	22°05'53"	12°13'13"	21°02'32"	28°03'31"	27°02'17"	5°05'44"	1°02'34"	T 13
W14	22 1 16	28°41'51"	13°20'13"	8°48'29"	29°59'31"	3°19'31"	7°02'27"	17°45'55"	22°05'50"	12°15'15"	21°02'33"	28°03'31"	27°02'14"	5°05'51"	1°02'35"	W14
T 15	22 5 12	29°39'53"	25°13'10"	10°34'11"	3°57'35"	7°02'25"	7°02'25"	17°52'52"	22°04'48"	12°17'17"	21°02'33"	28°03'32"	27°02'10"	5°05'57"	1°02'37"	T 15
F 16	22 9 9	0°11'37"	7°03'14"	12°19'22"	4°35'24"	4°35'24"	7°02'23"	17°58'58"	22°04'46"	12°18'18"	21°02'34"	28°03'32"	27°02'07"	6°04'04"	1°02'39"	F 16
S 17	22 13 5	1°36'04"	19°28'14"	14°03'33"	5°13'36"	5°13'36"	7°02'21"	18°05'18"	22°04'43"	12°20'20"	21°02'35"	28°03'30"	27°02'04"	6°05'11"	1°02'41"	S 17
S 18	22 17 2	2°34'11"	2°00'00"	15°45'17"	4°48'06"	5°51'62"	7°01'19"	18°11'17"	22°04'41"	12°22'22"	21°02'35"	28°02'25"	27°02'01"	6°05'17"	1°02'43"	S 18
M19	22 20 58	3°32'20"	14°50'17"	17°26'06"	6°01'62"	6°29'7"	7°01'18"	18°17'17"	22°03'39"	12°23'23"	21°02'36"	28°01'18"	26°58'58"	6°05'24"	1°02'45"	M19
T 20	22 24 55	4°30'30"	27°59'19"	6°07'13"	7°07'7"	7°07'7"	7°01'17"	18°24'24"	22°03'36"	12°25'25"	21°02'36"	28°00'09"	26°55'55"	6°05'31"	1°02'47"	T 20
W21	22 28 51	5°28'43"	11°11'28"	20°45'8"	8°25'7"	7°45'7"	7°01'16"	18°30'30"	22°03'34"	12°26'26"	21°02'37"	27°58'58"	26°50'50"	6°05'37"	1°02'50"	W21
T 22	22 32 48	6°26'57"	25°12'22"	9°38'8"	8°23'8"	8°23'8"	7°01'15"	18°36'36"	22°03'32"	12°28'28"	21°02'37"	27°47'47"	26°48'48"	6°05'44"	1°02'52"	T 22
F 23	22 36 45	7°25'13"	9°09'9"	23°59'10"	10°50'9"	9°01'9"	7°01'14"	18°42'42"	22°02'29"	12°29'29"	21°02'38"	27°37'37"	26°45'45"	6°05'51"	1°02'55"	F 23
S 24	22 40 41	8°23'30"	23°15'25"	25°34'12"	12°02'9"	9°39'9"	7°01'13"	18°48'48"	22°02'27"	12°31'31"	21°02'38"	27°29'29"	26°42'42"	6°05'57"	1°02'57"	S 24
S 25	22 44 38	9°21'51"	7°03'24"	27°08'13"	13°14'10"	10°17'10"	7°01'13"	18°54'54"	22°02'25"	12°32'32"	21°02'39"	27°23'23"	26°39'39"	7°04'04"	2°00'00"	S 25
M26	22 48 34	10°20'13"	21°03'25"	28°41'14"	14°26'10"	10°55'10"	7°01'13"	19°00'00"	22°02'22"	12°33'33"	21°02'39"	27°19'19"	26°36'36"	7°05'11"	2°00'03"	M26
T 27	22 52 31	11°18'37"	5°11'44"	0°02'13"	15°38'11"	11°33'11"	7°01'13"	19°06'06"	22°02'20"	12°35'35"	21°02'40"	27°18'18"	26°32'32"	7°05'17"	2°00'06"	T 27
W28	22 56 27	12°17'04"	19°51'14"	1°43'16"	16°50'12"	12°10'12"	7°01'13"	19°11'11"	22°02'18"	12°36'36"	21°02'40"	27°18'18"	26°29'29"	7°05'24"	2°00'09"	W28
T 29	23 0 24	13°15'33"	3°05'54"	3°13'18"	18°02'12"	12°48'12"	7°01'14"	19°17'17"	22°02'16"	12°37'37"	21°02'40"	27°18'18"	26°26'26"	7°05'30"	2°00'12"	T 29
F 30	23 4 20	14°14'04"	17°52'44"	4°41'19"	19°14'13"	12°26'13"	7°01'14"	19°23'23"	22°02'14"	12°39'39"	21°02'41"	27°17'17"	26°23'23"	7°05'37"	2°00'15"	F 30
S 31	23 8 17	15°11'37"	1°02'45"	6°02'09"	20°02'26"	14°02'04"	7°01'15"	19°28'28"	22°02'12"	12°40'40"	21°02'41"	27°13'13"	26°20'20"	7°05'44"	2°00'18"	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	16n 3	23n54	0n33	18n21	1n44	7n21	1n14	22n11	1n 0	23s33	0s18	22n18	0s13	14s30	0s46	22n15
F 2	15 45	22 34	0s44	17 47	1 46	6 51	1 12	22 4	1 0	23 34	0 18	22 17	0 13	14 31	0 46	22 15
S 3	15 28	19 47	1 58	17 10	1 46	6 21	1 10	21 57	1 1	23 34	0 18	22 17	0 13	14 32	0 46	22 15
S 4	15 10	15 50	3 4	16 33	1 46	5 51	1 8	21 50	1 1	23 34	0 18	22 16	0 13	14 33	0 46	22 14
M 5	14 51	11 4	3 58	15 54	1 45	5 21	1 6	21 43	1 1	23 35	0 18	22 15	0 13	14 33	0 46	22 14
T 6	14 33	5 49	4 37	15 14	1 44	4 50	1 4	21 36	1 2	23 35	0 18	22 14	0 13	14 34	0 46	22 14
W 7	14 14	0 26	5 0	14 33	1 42	4 20	1 2	21 28	1 2	23 35	0 18	22 14	0 13	14 35	0 46	22 14
T 8	13 56	4s49	5 6	13 51	1 40	3 49	1 0	21 21	1 3	23 36	0 18	22 13	0 13	14 36	0 46	22 14
F 9	13 36	9 44	4 57	13 8	1 37	3 18	0 58	21 13	1 3	23 36	0 18	22 12	0 12	14 37	0 46	22 14
S 10	13 17	14 8	4 33	12 25	1 33	2 47	0 56	21 5	1 3	23 36	0 18	22 11	0 12	14 37	0 46	22 13
S 11	12 58	17 52	3 58	11 41	1 29	2 16	0 53	20 57	1 4	23 36	0 19	22 10	0 12	14 38	0 46	22 13
M12	12 38	20 48	3 13	10 57	1 25	1 45	0 51	20 49	1 4	23 37	0 19	22 10	0 12	14 39	0 46	22 13
T 13	12 18	22 48	2 20	10 12	1 20	1 14	0 48	20 40	1 5	23 37	0 19	22 9	0 12	14 40	0 46	22 13
W14	11 58	23 48	1 21	9 28	1 15	0 43	0 46	20 32	1 5	23 37	0 19	22 8	0 12	14 41	0 46	22 13
T 15	11 38	23 43	0 18	8 42	1 10	0 11	0 43	20 23	1 5	23 37	0 19	22 7	0 12	14 41	0 46	22 13
F 16	11 17	22 33	0n46	7 57	1 5	0s20	0 41	20 14	1 6	23 37	0 19	22 6	0 12	14 42	0 46	22 12
S 17	10 56	20 17	1 49	7 12	0 59	0 51	0 38	20 6	1 6	23 38	0 19	22 6	0 12	14 43	0 46	22 12
S 18	10 35	17 2	2 49	6 27	0 52	1 23	0 35	19 57	1 6	23 38	0 19	22 5	0 12	14 44	0 46	22 12
M19	10 14	12 55	3 41	5 41	0 46	1 54	0 33	19 47	1 7	23 38	0 19	22 4	0 12	14 44	0 46	22 12
T 20	9 53	8 7	4 22	4 56	0 40	2 25	0 30	19 38	1 7	23 38	0 19	22 3	0 12	14 45	0 46	22 12
W21	9 32	2 49	4 50	4 11	0 33	2 56	0 27	19 29	1 8	23 38	0 19	22 3	0 12	14 46	0 46	22 12
T 22	9 10	2n42	5 2	3 26	0 26	3 27	0 24	19 19	1 8	23 38	0 19	22 2	0 11	14 47	0 46	22 11
F 23	8 49	8 10	4 56	2 41	0 19	3 59	0 21	19 9	1 8	23 39	0 20	22 1	0 11	14 47	0 46	22 11
S 24	8 27	13 17	4 33	1 57	0 11	4 30	0 18	19 0	1 9	23 39	0 20	22 0	0 11	14 48	0 46	22 11
S 25	8 5	17 41	3 52	1 12	0 4	5 1	0 15	18 50	1 9	23 39	0 20	22 0	0 11	14 49	0 46	22 11
M26	7 43	21 4	2 57	0 28	0s 4	5 32	0 12	18 40	1 9	23 39	0 20	21 59	0 11	14 50	0 46	22 11
T 27	7 21	23 10	1 52	0s15	0 11	6 2	0 9	18 30	1 10	23 39	0 20	21 58	0 11	14 50	0 46	22 11
W28	6 58	23 47	0 39	0 59	0 19	6 33	0 6	18 19	1 10	23 39	0 20	21 57	0 11	14 51	0 46	22 11
T 29	6 36	22 53	0s35	1 41	0 27	7 4	0 3	18 9	1 11	23 39	0 20	21 57	0 11	14 52	0 46	22 11
F 30	6 13	20 33	1 47	2 24	0 34	7 34	0s 1	17 58	1 11	23 39	0 20	21 56	0 11	14 52	0 46	22 10
S 31	5n51	17n 3	2s52	3s 6	0s42	8s 4	0s 4	17n48	1n11	23s39	0s20	21n55	0s11	14s53	0s46	22n10

Julian Day Number = 2238098.5, Delta T = 07m28s

Ecliptic obliquity = 23°30'54", Nutation = 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°35'15", Lahiri = 15°42'16" Julian Calendar 1 Aug. 1415 == Greg. Calendar 10 Aug. 1415

ASTRODIENST EPHEMERIS for the year 1415

geocentric

SEPTEMBER 1415 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 12 14	16 ¹¹ 11'13	15 ¹² 30	7 ¹² 35	21 ¹² 38	14 ¹² 41	7 ¹² 16	19 ¹² 34	22 ¹² R 9	12 ¹² 341	21 ¹² 41	27 ¹² R 6	26 ¹² 16	7 ¹² 50	2 ¹² 21	S 1
M 2	23 16 10	17 ¹² 9'50	29 ¹² 7	9 ¹² 0	22 ¹² 50	15 ¹² 19	7 ¹² 18	19 ¹² 39	22 ¹² 7	12 ¹² 42	21 ¹² 42	26 ¹² 17	26 ¹² 13	7 ¹² 57	2 ¹² 25	M 2
T 3	23 20 7	18 ¹² 8'30	12 ¹² 31	10 ¹² 24	24 ¹² 2	15 ¹² 57	7 ¹² 19	19 ¹² 44	22 ¹² 5	12 ¹² 43	21 ¹² 42	26 ¹² 46	26 ¹² 10	8 ¹² 4	2 ¹² 28	T 3
W 4	23 24 3	19 ¹² 7'11	25 ¹² 40	11 ¹² 46	25 ¹² 14	16 ¹² 34	7 ¹² 21	19 ¹² 50	22 ¹² 3	12 ¹² 44	21 ¹² 42	26 ¹² 33	26 ¹² 7	8 ¹² 10	2 ¹² 32	W 4
T 5	23 28 0	20 ¹² 5'54	8 ¹² 34	13 ¹² 8	26 ¹² 26	17 ¹² 12	7 ¹² 22	19 ¹² 55	22 ¹² 1	12 ¹² 46	21 ¹² 42	26 ¹² 20	26 ¹² 4	8 ¹² 17	2 ¹² 35	T 5
F 6	23 31 56	21 ¹² 4'40	21 ¹² 10	14 ¹² 28	27 ¹² 38	17 ¹² 49	7 ¹² 24	20 ¹² 0	21 ¹² 59	12 ¹² 47	21 ¹² 42	26 ¹² 8	26 ¹² 1	8 ¹² 24	2 ¹² 39	F 6
S 7	23 35 53	22 ¹² 3'27	3 ¹² 31	15 ¹² 47	28 ¹² 49	18 ¹² 27	7 ¹² 27	20 ¹² 5	21 ¹² 57	12 ¹² 48	21 ¹² 43	25 ¹² 58	25 ¹² 57	8 ¹² 30	2 ¹² 43	S 7
S 8	23 39 49	23 ¹² 2'16	15 ¹² 38	17 ¹² 4	0 ¹² 1	19 ¹² 4	7 ¹² 29	20 ¹² 10	21 ¹² 55	12 ¹² 49	21 ¹² 43	25 ¹² 51	25 ¹² 54	8 ¹² 37	2 ¹² 47	S 8
M 9	23 43 46	24 ¹² 1'07	27 ¹² 33	18 ¹² 20	1 ¹² 13	19 ¹² 42	7 ¹² 31	20 ¹² 15	21 ¹² 53	12 ¹² 50	21 ¹² 43	25 ¹² 47	25 ¹² 51	8 ¹² 44	2 ¹² 51	M 9
T 10	23 47 43	25 ¹² 0'00	9 ¹² 23	19 ¹² 34	2 ¹² 24	20 ¹² 19	7 ¹² 34	20 ¹² 19	21 ¹² 51	12 ¹² 51	21 ¹² 43	25 ¹² 45	25 ¹² 48	8 ¹² 50	2 ¹² 55	T 10
W11	23 51 39	25 ¹² 58'54	21 ¹² 11	20 ¹² 47	3 ¹² 36	20 ¹² 57	7 ¹² 37	20 ¹² 24	21 ¹² 50	12 ¹² 52	21 ¹² 43	25 ¹² 44	25 ¹² 45	8 ¹² 57	2 ¹² 59	W11
T 12	23 55 36	26 ¹² 57'51	3 ¹² 2	21 ¹² 58	4 ¹² 47	21 ¹² 34	7 ¹² 40	20 ¹² 29	21 ¹² 48	12 ¹² 52	21 ¹² 43	25 ¹² 44	25 ¹² 41	9 ¹² 4	3 ¹² 3	T 12
F 13	23 59 32	27 ¹² 56'49	15 ¹² 4	23 ¹² 8	5 ¹² 59	22 ¹² 11	7 ¹² 44	20 ¹² 33	21 ¹² 46	12 ¹² 53	21 ¹² 43	25 ¹² 43	25 ¹² 38	9 ¹² 10	3 ¹² 7	F 13
S 14	0 3 29	28 ¹² 55'49	27 ¹² 20	24 ¹² 15	7 ¹² 10	22 ¹² 49	7 ¹² 47	20 ¹² 38	21 ¹² 44	12 ¹² 54	21 ¹² R43	25 ¹² 41	25 ¹² 35	9 ¹² 17	3 ¹² 12	S 14
S 15	0 7 25	29 ¹² 54'50	9 ¹² 55	25 ¹² 20	8 ¹² 21	23 ¹² 26	7 ¹² 51	20 ¹² 42	21 ¹² 42	12 ¹² 55	21 ¹² 43	25 ¹² 36	25 ¹² 32	9 ¹² 24	3 ¹² 16	S 15
M16	0 11 22	0 ¹² 53'54	22 ¹² 54	26 ¹² 23	9 ¹² 33	24 ¹² 3	7 ¹² 55	20 ¹² 46	21 ¹² 41	12 ¹² 56	21 ¹² 43	25 ¹² 29	25 ¹² 29	9 ¹² 30	3 ¹² 20	M16
T 17	0 15 18	1 ¹² 52'59	6 ¹² 16	27 ¹² 24	10 ¹² 44	24 ¹² 40	7 ¹² 59	20 ¹² 50	21 ¹² 39	12 ¹² 56	21 ¹² 43	25 ¹² 19	25 ¹² 26	9 ¹² 37	3 ¹² 25	T 17
W18	0 19 15	2 ¹² 52'06	20 ¹² 3	28 ¹² 22	11 ¹² 55	25 ¹² 17	8 ¹² 3	20 ¹² 54	21 ¹² 37	12 ¹² 57	21 ¹² 43	25 ¹² 7	25 ¹² 22	9 ¹² 43	3 ¹² 30	W18
T 19	0 23 12	3 ¹² 51'16	4 ¹² 11	29 ¹² 17	13 ¹² 6	25 ¹² 55	8 ¹² 7	20 ¹² 58	21 ¹² 36	12 ¹² 58	21 ¹² 43	24 ¹² 55	25 ¹² 19	9 ¹² 50	3 ¹² 34	T 19
F 20	0 27 8	4 ¹² 50'27	18 ¹² 34	0 ¹² 9	14 ¹² 17	26 ¹² 32	8 ¹² 12	21 ¹² 2	21 ¹² 34	12 ¹² 58	21 ¹² 43	24 ¹² 44	25 ¹² 16	9 ¹² 57	3 ¹² 39	F 20
S 21	0 31 5	5 ¹² 49'40	3 ¹² 6	0 ¹² 58	15 ¹² 28	27 ¹² 9	8 ¹² 16	21 ¹² 6	21 ¹² 33	12 ¹² 59	21 ¹² 42	24 ¹² 35	25 ¹² 13	10 ¹² 3	3 ¹² 44	S 21
S 22	0 35 1	6 ¹² 48'56	17 ¹² 41	1 ¹² 43	16 ¹² 39	27 ¹² 46	8 ¹² 21	21 ¹² 10	21 ¹² 31	12 ¹² 59	21 ¹² 42	24 ¹² 28	25 ¹² 10	10 ¹² 10	3 ¹² 49	S 22
M23	0 38 58	7 ¹² 48'14	2 ¹² 11	2 ¹² 24	17 ¹² 50	28 ¹² 23	8 ¹² 26	21 ¹² 13	21 ¹² 30	13 ¹² 0	21 ¹² 42	24 ¹² 24	25 ¹² 7	10 ¹² 17	3 ¹² 54	M23
T 24	0 42 54	8 ¹² 47'35	16 ¹² 34	3 ¹² 1	19 ¹² 1	29 ¹² 0	8 ¹² 32	21 ¹² 17	21 ¹² 29	13 ¹² 1	21 ¹² 42	24 ¹² 22	25 ¹² 3	10 ¹² 23	3 ¹² 59	T 24
W25	0 46 51	9 ¹² 46'58	0 ¹² 45	3 ¹² 33	20 ¹² 12	29 ¹² 37	8 ¹² 37	21 ¹² 20	21 ¹² 27	13 ¹² 1	21 ¹² 42	24 ¹² D22	25 ¹² 0	10 ¹² 30	4 ¹² 4	W25
T 26	0 50 47	10 ¹² 46'23	14 ¹² 45	4 ¹² 0	21 ¹² 22	0 ¹² 14	8 ¹² 43	21 ¹² 24	21 ¹² 26	13 ¹² 1	21 ¹² 41	24 ¹² R22	24 ¹² 57	10 ¹² 37	4 ¹² 9	T 26
F 27	0 54 44	11 ¹² 45'51	28 ¹² 32	4 ¹² 21	22 ¹² 33	0 ¹² 51	8 ¹² 48	21 ¹² 27	21 ¹² 25	13 ¹² 2	21 ¹² 41	24 ¹² 21	24 ¹² 54	10 ¹² 43	4 ¹² 14	F 27
S 28	0 58 41	12 ¹² 45'21	12 ¹² 8	4 ¹² 35	23 ¹² 44	1 ¹² 28	8 ¹² 54	21 ¹² 30	21 ¹² 23	13 ¹² 2	21 ¹² 41	24 ¹² 18	24 ¹² 51	10 ¹² 50	4 ¹² 19	S 28
S 29	1 2 37	13 ¹² 44'53	25 ¹² 32	4 ¹² 43	24 ¹² 54	2 ¹² 4	9 ¹² 0	21 ¹² 33	21 ¹² 22	13 ¹² 3	21 ¹² 40	24 ¹² 12	24 ¹² 47	10 ¹² 57	4 ¹² 24	S 29
M30	1 6 34	14 ¹² 44'27	8 ¹² 44	4 ¹² R44	26 ¹² 5	2 ¹² 41	9 ¹² 7	21 ¹² 36	21 ¹² 21	13 ¹² 3	21 ¹² 40	24 ¹² 7	24 ¹² 44	11 ¹² 3	4 ¹² 30	M30

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	5n28	12n38	3s46	3s47	0s50	8s34	0s 7	17n37	1n12	23s39	0s20	21n54	0s11	14s54	0s46	22n10	0s45	16n40	6s36	23s29	23s28	23s18	16s11	4n36			
M 2	5 5	7 40	4 26	4 28	0 58	9 4	0 11	17 26	1 12	23 39	0 20	21 54	0 11	14 54	0 46	22 10	0 45	16 40	6 36	23 29	23 28	23 18	16 12	4 36			
T 3	4 42	2 24	4 51	5 8	1 6	9 34	0 14	17 15	1 12	23 39	0 20	21 53	0 11	14 55	0 46	22 10	0 45	16 40	6 36	23 29	23 28	23 18	16 13	4 36			
W 4	4 19	2s52	5 0	5 48	1 14	10 4	0 17	17 4	1 13	23 39	0 20	21 52	0 10	14 56	0 46	22 10	0 45	16 40	6 36	23 28	23 27	23 18	16 14	4 36			
T 5	3 56	7 54	4 54	6 27	1 22	10 33	0 21	16 53	1 13	23 39	0 20	21 52	0 10	14 56	0 46	22 10	0 45	16 40	6 36	23 28	23 27	23 19	16 15	4 35			
F 6	3 33	12 30	4 33	7 5	1 29	11 2	0 24	16 42	1 13	23 39	0 20	21 51	0 10	14 57	0 46	22 10	0 45	16 40	6 36	23 28	23 27	23 19	16 16	4 35			
S 7	3 10	16 28	3 59	7 43	1 37	11 31	0 27	16 31	1 14	23 39	0 21	21 50	0 10	14 58	0 46	22 9	0 45	16 40	6 36	23 27	23 27	23 19	16 16	4 35			
S 8	2 46	19 41	3 15	8 20	1 45	12 0	0 31	16 19	1 14	23 39	0 21	21 50	0 10	14 58	0 46	22 9	0 45	16 40	6 36	23 27	23 27	23 19	16 17	4 35			
M 9	2 23	22 0	2 23	8 56	1 52	12 28	0 34	16 8	1 14	23 39	0 21	21 49	0 10	14 59	0 46	22 9	0 45	16 39	6 37	23 27	23 27	23 20	16 18	4 34			
T 10	2 0	23 20	1 26	9 32	2 0	12 56	0 38	15 56	1 15	23 39	0 21	21 48	0 10	14 59	0 46	22 9	0 45	16 39	6 37	23 27	23 27	23 20	16 19	4 34			
W11	1 36	23 37	0 24	10 6	2 7	13 24	0 41	15 45	1 15	23 38	0 21	21 48	0 10	15 0	0 46	22 9	0 45	16 39	6 37	23 27	23 27	23 20	16 20	4 34			
T 12	1 13	22 50	0n39	10 39	2 14	13 52	0 45	15 33	1 15	23 38	0 21	21 47	0 10	15 1	0 46	22 9	0 45	16 39	6 37	23 27	23 27	23 20	16 21	4 34			
F 13	0 49	21 0	1 41	11 12	2 21	14 19	0 48	15 21	1 16	23 38	0 21	21 47	0 10	15 1	0 46	22 9	0 45	16 39	6 37	23 27	23 27	23 20	16 22	4 33			
S 14	0 26	18 10	2 39	11 43	2 28	14 46	0 52	15 9	1 16	23 38	0 21	21 46	0 10	15 2	0 46	22 9	0 45	16 39	6 37	23 27	23 26	23 21	16 23	4 33			
S 15	0 2	14 25	3 31	12 13	2 34	15 12	0 55	14 57	1 16	23 38	0 21	21 45	0 10	15 2	0 46	22 9	0 45	16 39	6 37	23 27	23 26	23 21	16 24	4 33			
M16	0s21	9 55	4 14	12 43	2 41	15 39	0 59	14 45	1 17	23 38	0 21	21 45	0 10	15 3	0 46	22 9	0 45	16 39	6 37	23 26	23 26	23 21	16 26	4 33			
T 17	0 45	4 50	4 45	13 10	2 47	16 5	1 2	14 33	1 17	23 37	0 21	21 44	0 9	15 3	0 46	22 8	0 45	16 39	6 37	23 26	23 26	23 21	16 27	4 33			
W18	1 9	0n38	5 0	13 37	2 52	16 30	1 6	14 21	1 17	23 37	0 21	21 44	0 9	15 4	0 46	22 8	0 45	16 39	6 37	23 25	23 26	23 21	16 28	4 32			
T 19	1 32	6 12	4 57	14 1	2 58	16 55	1 9	14 8	1 18	23 37	0 21	21 43	0 9	15 4	0 46	22 8	0 45	16 38	6 38	23 25	23 26	23 21	16 29	4 32			
F 20	1 56	11 32	4 36	14 25	3 3	17 20	1 13	13 56	1 18	23 37	0 21	21 43	0 9	15 5	0 46	22 8	0 45	16 38	6 38	23 25	23 26	23 22	16 30	4 32			
S 21	2 19	16 17	3 56	14 46	3 7	17 44	1 16	13 44	1 18	23 37	0 21	21 42	0 9	15 5	0 46	22 8	0 45	16 38	6 38	23 24	23 26	23 22	16 31	4 32			
S 22	2 43	20 3	3 1	15 6	3 11	18 8	1 20	13 31	1 19	23 36	0 21	21 42	0 9	15 6	0 46	22 8	0 45	16 38	6 38	23 24	23 26	23 22	16 32	4 32			
M23	3 6	22 32	1 55	15 23	3 14	18 32	1 23	13 19	1 19	23 36	0 21	21 41	0 9	15 6	0 46	22 8	0 45	16 38	6 38	23 24	23 25	23 22	16 33	4 31			
T 24	3 30	23 31	0 41	15 39	3 17	18 55	1 26	13 6	1 19	23 36	0 21	21 41	0 9	15 7	0 46	22 8	0 45	16 38	6 38	23 24	23 25	23 22	16 34	4 31			
W25	3 53	22 57	0s34	15 52	3 19	19 17	1 30	12 53	1 20	23 35	0 21	21 40	0 9	15 7	0 46	22 8	0 45	16 38	6 38	23 24	23 25	23 22	16 35	4 31			
T 26	4 17	20 56	1 46	16 2	3 21	19 40	1 33	12 40	1 20	23 35	0 22	21 40	0 9	15 7	0 46	22 8	0 45	16 38	6 38	23 24	23 25	23 22	16 36	4 31			
F 27	4 40	17 44	2 51	16 9	3 21	20 1	1 36	12 28	1 20	23 35	0 22	21 39	0 9	15 8	0 46	22 8	0 45	16 38	6 38	23 24	23 25	23 22	16 37	4 31			
S 28	5 3	13 37	3 45	16 14	3 20	20 22	1 40	12 15	1 21	23 34	0 22	21 39	0 9	15 8	0 46	22 8	0 45	16 37	6 38	23 24	23 25	23 23	16 38	4 31			
S 29	5 26	8 53	4 26	16 15	3 19	20 43	1 43	12 2	1 21	23 34	0 22	21 39	0 8	15 8	0 45	22 8	0 45	16 37	6 39	23 23	23 25	23 23	16 40	4 30			
M30	5s50	3n49	4s52	16s12	3s16	21s 3	1s46	11n49	1n21	23s34	0s22	21n38	0s 8	15s 9	0s45	22n 8	0s45	16n37	6s39	23s23	23s25	23s23	16s41	4n30			

ASTRODIENST EPHEMERIS for the year 1415
geocentric

OCTOBER 1415 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 10 30	15 ⁴⁴ 04'04	21 ¹⁷ 45	4 ⁰ R36	27 ¹¹ 15	3 ¹⁷ 18	9 ³ 13	21 ³⁶ 39	21 ⁰ R20	13 ³⁶ 3	21 ⁰ R40	23 ⁰ R53	24 ³⁷ 41	11 ³⁷ 10	4 ³⁷ 35	T 1
W 2	1 14 27	16 ⁰ 43'43	4 ⁴ 34	4 ¹¹ 21	28 ⁰ 25	3 ⁰ 55	9 ⁰ 20	21 ⁰ 42	21 ³⁶ 19	13 ⁰ 3	21 ¹¹ 39	23 ³⁷ 41	24 ⁰ 38	11 ⁰ 17	4 ⁰ 41	W 2
T 3	1 18 23	17 ⁰ 43'24	17 ⁰ 11	3 ⁰ 57	29 ⁰ 36	4 ⁰ 31	9 ⁰ 26	21 ⁰ 44	21 ⁰ 18	13 ⁰ 3	21 ⁰ 39	23 ⁰ 28	24 ⁰ 35	11 ⁰ 23	4 ⁰ 46	T 3
F 4	1 22 20	18 ⁰ 43'06	29 ⁰ 34	3 ⁰ 24	0 ⁰ 46	5 ⁰ 8	9 ⁰ 33	21 ⁰ 47	21 ⁰ 17	13 ⁰ 4	21 ⁰ 38	23 ⁰ 17	24 ⁰ 32	11 ⁰ 30	4 ⁰ 52	F 4
S 5	1 26 16	19 ⁰ 42'51	11 ¹¹ 46	2 ⁰ 43	1 ⁰ 56	5 ⁰ 45	9 ⁰ 40	21 ⁰ 49	21 ⁰ 16	13 ⁰ 4	21 ⁰ 38	23 ⁰ 8	24 ⁰ 28	11 ⁰ 37	4 ⁰ 57	S 5
S 6	1 30 13	20 ⁰ 42'38	23 ⁰ 46	1 ⁰ 53	3 ⁰ 6	6 ⁰ 21	9 ⁰ 47	21 ⁰ 51	21 ⁰ 15	13 ⁰ 4	21 ⁰ 38	23 ⁰ 1	24 ⁰ 25	11 ⁰ 43	5 ⁰ 3	S 6
M 7	1 34 9	21 ⁰ 42'27	5 ³⁷ 39	0 ⁰ 55	4 ⁰ 16	6 ⁰ 58	9 ⁰ 55	21 ⁰ 54	21 ⁰ 14	13 ⁰ 4	21 ⁰ 37	22 ⁰ 57	24 ⁰ 22	11 ⁰ 50	5 ⁰ 9	M 7
T 8	1 38 6	22 ⁰ 42'18	17 ⁰ 26	29 ³ 49	5 ⁰ 26	7 ⁰ 35	10 ⁰ 2	21 ⁰ 56	21 ⁰ 14	13 ⁰ R 4	21 ⁰ 36	22 ⁰ D55	24 ⁰ 19	11 ⁰ 56	5 ⁰ 15	T 8
W 9	1 42 3	23 ⁰ 42'10	29 ⁰ 12	28 ⁰ 39	6 ⁰ 36	8 ⁰ 11	10 ⁰ 10	21 ⁰ 58	21 ⁰ 13	13 ⁰ 4	21 ⁰ 36	22 ⁰ 55	24 ⁰ 16	12 ⁰ 3	5 ⁰ 20	W 9
T 10	1 45 59	24 ⁰ 42'04	11 ³ 2	27 ⁰ 24	7 ⁰ 46	8 ⁰ 48	10 ⁰ 18	22 ⁰ 0	21 ⁰ 12	13 ⁰ 4	21 ⁰ 35	22 ⁰ 56	24 ⁰ 12	12 ⁰ 10	5 ⁰ 26	T 10
F 11	1 49 56	25 ⁰ 42'00	23 ⁰ 1	26 ⁰ 7	8 ⁰ 55	9 ⁰ 24	10 ⁰ 25	22 ⁰ 1	21 ⁰ 11	13 ⁰ 4	21 ⁰ 35	22 ⁰ R57	24 ⁰ 9	12 ⁰ 16	5 ⁰ 32	F 11
S 12	1 53 52	26 ⁰ 41'58	5 ³ 15	24 ⁰ 51	10 ⁰ 5	10 ⁰ 0	10 ⁰ 33	22 ⁰ 3	21 ⁰ 11	13 ⁰ 4	21 ⁰ 34	22 ⁰ 56	24 ⁰ 6	12 ⁰ 23	5 ⁰ 38	S 12
S 13	1 57 49	27 ⁰ 41'57	17 ⁰ 48	23 ⁰ 38	11 ⁰ 14	10 ⁰ 37	10 ⁰ 42	22 ⁰ 5	21 ⁰ 10	13 ⁰ 4	21 ⁰ 34	22 ⁰ 54	24 ⁰ 3	12 ⁰ 30	5 ⁰ 44	S 13
M14	2 1 45	28 ⁰ 41'58	0 ³ 46	22 ⁰ 29	12 ⁰ 24	11 ⁰ 13	10 ⁰ 50	22 ⁰ 6	21 ⁰ 10	13 ⁰ 3	21 ⁰ 33	22 ⁰ 50	24 ⁰ 0	12 ⁰ 36	5 ⁰ 50	M14
T 15	2 5 42	29 ⁰ 42'00	14 ⁰ 11	21 ⁰ 28	13 ⁰ 33	11 ⁰ 49	10 ⁰ 58	22 ⁰ 7	21 ⁰ 9	13 ⁰ 3	21 ⁰ 32	22 ⁰ 44	23 ⁰ 57	12 ⁰ 43	5 ⁰ 57	T 15
W16	2 9 38	0 ¹¹ 42'04	28 ⁰ 3	20 ⁰ 35	14 ⁰ 42	12 ⁰ 26	11 ⁰ 7	22 ⁰ 9	21 ⁰ 9	13 ⁰ 3	21 ⁰ 32	22 ⁰ 36	23 ⁰ 53	12 ⁰ 50	6 ⁰ 3	W16
T 17	2 13 35	1 ⁰ 42'10	12 ⁰ 22	19 ⁰ 53	15 ⁰ 51	13 ⁰ 2	11 ⁰ 16	22 ⁰ 10	21 ⁰ 9	13 ⁰ 3	21 ⁰ 31	22 ⁰ 27	23 ⁰ 50	12 ⁰ 56	6 ⁰ 9	T 17
F 18	2 17 32	2 ⁰ 42'17	27 ⁰ 2	19 ⁰ 22	17 ⁰ 0	13 ⁰ 38	11 ⁰ 25	22 ⁰ 11	21 ⁰ 8	13 ⁰ 2	21 ⁰ 30	22 ⁰ 19	23 ⁰ 47	13 ⁰ 3	6 ⁰ 15	F 18
S 19	2 21 28	3 ⁰ 42'27	11 ³ 56	19 ⁰ 3	18 ⁰ 9	14 ⁰ 14	11 ⁰ 34	22 ⁰ 12	21 ⁰ 8	13 ⁰ 2	21 ⁰ 29	22 ⁰ 12	23 ⁰ 44	13 ⁰ 10	6 ⁰ 21	S 19
S 20	2 25 25	4 ⁰ 42'38	26 ⁰ 55	18 ⁰ D55	19 ⁰ 17	14 ⁰ 50	11 ⁰ 43	22 ⁰ 12	21 ⁰ 8	13 ⁰ 2	21 ⁰ 29	22 ⁰ 8	23 ⁰ 41	13 ⁰ 16	6 ⁰ 28	S 20
M21	2 29 21	5 ⁰ 42'51	11 ¹¹ 50	18 ⁰ 59	20 ⁰ 26	15 ⁰ 26	11 ⁰ 52	22 ⁰ 13	21 ⁰ 8	13 ⁰ 1	21 ⁰ 28	22 ⁰ 6	23 ⁰ 38	13 ⁰ 23	6 ⁰ 34	M21
T 22	2 33 18	6 ⁰ 43'07	26 ⁰ 35	19 ⁰ 13	21 ⁰ 34	16 ⁰ 2	12 ⁰ 1	22 ⁰ 14	21 ⁰ 8	13 ⁰ 1	21 ⁰ 27	22 ⁰ D 5	23 ⁰ 34	13 ⁰ 30	6 ⁰ 40	T 22
W23	2 37 14	7 ⁰ 43'24	11 ³ 3	19 ⁰ 37	22 ⁰ 42	16 ⁰ 38	12 ⁰ 11	22 ⁰ 14	21 ⁰ D 8	13 ⁰ 0	21 ⁰ 26	22 ⁰ 6	23 ⁰ 31	13 ⁰ 36	6 ⁰ 47	W23
T 24	2 41 11	8 ⁰ 43'43	25 ⁰ 12	20 ⁰ 11	23 ⁰ 51	17 ⁰ 14	12 ⁰ 20	22 ⁰ 14	21 ⁰ 8	13 ⁰ 0	21 ⁰ 26	22 ⁰ 7	23 ⁰ 28	13 ⁰ 43	6 ⁰ 53	T 24
F 25	2 45 7	9 ⁰ 44'05	9 ⁰ 1	20 ⁰ 53	24 ⁰ 59	17 ⁰ 50	12 ⁰ 30	22 ⁰ 15	21 ⁰ 8	12 ⁰ 59	21 ⁰ 25	22 ⁰ R 8	23 ⁰ 25	13 ⁰ 49	7 ⁰ 0	F 25
S 26	2 49 4	10 ⁰ 44'28	22 ⁰ 32	21 ⁰ 42	26 ⁰ 6	18 ⁰ 26	12 ⁰ 40	22 ⁰ R15	21 ⁰ 8	12 ⁰ 59	21 ⁰ 24	22 ⁰ 7	23 ⁰ 22	13 ⁰ 56	7 ⁰ 6	S 26
S 27	2 53 1	11 ⁰ 44'53	5 ¹⁷ 44	22 ⁰ 39	27 ⁰ 14	19 ⁰ 2	12 ⁰ 50	22 ⁰ 15	21 ⁰ 8	12 ⁰ 58	21 ⁰ 23	22 ⁰ 5	23 ⁰ 18	14 ⁰ 3	7 ⁰ 13	S 27
M28	2 56 57	12 ⁰ 45'21	18 ⁰ 41	23 ⁰ 40	28 ⁰ 22	19 ⁰ 37	13 ⁰ 0	22 ⁰ 15	21 ⁰ 8	12 ⁰ 57	21 ⁰ 22	22 ⁰ 0	23 ⁰ 15	14 ⁰ 9	7 ⁰ 20	M28
T 29	3 0 54	13 ⁰ 45'50	1 ⁰ 23	24 ⁰ 47	29 ⁰ 29	20 ⁰ 13	13 ⁰ 10	22 ⁰ 14	21 ⁰ 9	12 ⁰ 57	21 ⁰ 21	21 ⁰ 55	23 ⁰ 12	14 ⁰ 16	7 ⁰ 26	T 29
W30	3 4 50	14 ⁰ 46'20	13 ⁰ 53	25 ⁰ 58	0 ⁰ 36	20 ⁰ 49	13 ⁰ 21	22 ⁰ 14	21 ⁰ 9	12 ⁰ 56	21 ⁰ 20	21 ⁰ 48	23 ⁰ 9	14 ⁰ 23	7 ⁰ 33	W30
T 31	3 8 47	15 ¹¹ 46'53	26 ⁰ 12	27 ⁰ 13	1 ⁰ 43	21 ⁰ 24	13 ⁰ 31	22 ⁰ 14	21 ⁰ 9	12 ⁰ 55	21 ⁰ 19	21 ⁰ 41	23 ⁰ 6	14 ⁰ 29	7 ⁰ 39	T 31

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	6s13	1s21	5s 2	16s 6	3s11	21s23	1s49	11n36	1n22	23s33	0s22	21n38	0s 8	15s 9	0s45	22n 8	0s45	16n37	6s39	23s22	23s24	23s23	16s42	4n30							
W 2	6 36	6 22	4 57	15 55	3 5	21 42	1 52	11 23	1 22	23 33	0 22	21 38	0 8	15 9	0 45	22 8	0 45	16 37	6 39	23 22	23 24	23 23	16 43	4 30							
T 3	6 59	11 2	4 37	15 40	2 58	22 1	1 56	11 9	1 22	23 33	0 22	21 37	0 8	15 10	0 45	22 8	0 45	16 37	6 39	23 21	23 24	23 23	16 44	4 30							
F 4	7 21	15 10	4 5	15 20	2 49	22 19	1 59	10 56	1 22	23 32	0 22	21 37	0 8	15 10	0 45	22 7	0 45	16 37	6 39	23 21	23 24	23 23	16 45	4 30							
S 5	7 44	18 36	3 21	14 55	2 38	22 36	2 2	10 43	1 23	23 32	0 22	21 37	0 8	15 10	0 45	22 7	0 45	16 37	6 39	23 20	23 24	23 23	16 46	4 30							
S 6	8 7	21 11	2 29	14 26	2 25	22 53	2 5	10 30	1 23	23 31	0 22	21 36	0 8	15 11	0 45	22 7	0 45	16 37	6 39	23 20	23 24	23 23	16 47	4 29							
M 7	8 29	22 49	1 31	13 52	2 11	23 9	2 8	10 16	1 23	23 31	0 22	21 36	0 8	15 11	0 45	22 7	0 45	16 36	6 39	23 20	23 24	23 23	16 49	4 29							
T 8	8 52	23 24	0 29	13 14	1 55	23 25	2 10	10 3	1 24	23 30	0 22	21 36	0 8	15 11	0 45	22 7	0 45	16 36	6 39	23 20	23 24	23 23	16 50	4 29							
W 9	9 14	22 57	0n34	12 32	1 37	23 40	2 13	9 49	1 24	23 30	0 22	21 36	0 8	15 11	0 45	22 7	0 45	16 36	6 39	23 20	23 23	23 23	16 51	4 29							
T 10	9 36	21 28	1 36	11 47	1 18	23 54	2 16	9 36	1 24	23 29	0 22	21 35	0 8	15 11	0 45	22 7	0 45	16 36	6 39	23 20	23 23	23 23	16 52	4 29							
F 11	9 58	19 0	2 34	11 1	0 58	24 8	2 19	9 23	1 25	23 28	0 22	21 35	0 7	15 12	0 45	22 7	0 45	16 36	6 40	23 20	23 23	23 23	16 53	4 29							
S 12	10 20	15 40	3 27	10 14	0 37	24 22	2 21	9 9	1 25	23 28	0 22	21 35	0 7	15 12	0 45	22 7	0 45	16 36	6 40	23 20	23 23	23 23	16 54	4 29							
S 13	10 41	11 33	4 12	9 27	0 17	24 34	2 24	8 55	1 25	23 27	0 22	21 35	0 7	15 12	0 45	22 7	0 45	16 36	6 40	23 19	23 23	23 23	16 55	4 29							
M14	11 3	6 48	4 45	8 43	0n 4	24 46	2 26	8 42	1 25	23 27	0 22	21 35	0 7	15 12	0 45	22 7	0 45	16 36	6 40	23 19	23 23	23 23	16 56	4 29							
T 15	11 24	1 34	5 4	8 2	0 24	24 57	2 29	8 28	1 26	23 26	0 22	21 34	0 7	15 12	0 45	22 7	0 45	16 36	6 40	23 19	23 23	23 23	16 58	4 28							
W16	11 45	3n54	5 6	7 25	0 42	25 8	2 31	8 15	1 26	23 25	0 22	21 34	0 7	15 12	0 45	22 7	0 45	16 35	6 40	23 18	23 22	23 23	16 59	4 28							
T 17	12 6	9 20	4 49	6 53	0 59	25 18	2 33	8 1	1 26	23 25	0 23	21 34	0 7	15 12	0 45	22 7	0 45	16 35	6 40	23 18	23 22	23 23	17 0	4 28							
F 18	12 27	14 23	4 13	6 27	1 15	25 27	2 35	7 47	1 27	23 24	0 23	21 34	0 7	15 12	0 45	22 7	0 45	16 35	6 40	23 17	23 22	23 23	17 1	4 28							
S 19	12 48	18 37	3 19	6 7	1 29	25 36	2 37	7 34	1 27	23 23	0 23	21 34	0 7	15 12	0 45	22 7	0 45	16 35	6 40	23 17	23 22	23 23	17 2	4 28							
S 20	13 8	21 40	2 12	5 53	1 41	25 44	2 39	7 20	1 27	23 22	0 23	21 34	0 7	15 12	0 45	22 7	0 45	16 35	6 40	23 17	23 22	23 23	17 3	4 28							
M21	13 28	23 11	0 55	5 45	1 51	25 51	2 41	7 6	1 27	23 22	0 23	21 34	0 7	15 12	0 45	22 7	0 45	16 35	6 40	23 17	23 22	23 23	17 4	4 28							
T 22	13 48	23 4	0s24	5 42	1 59	25 57	2 43	6 52	1 28	23 21	0 23	21 34	0 6	15 12	0 45	22 7	0 45	16 35	6 40	23 17	23 21	23 23	17 5	4 28							
W23	14 8	21 23	1 41	5 45	2 6	26 3	2 45	6 39	1 28	23 20	0 23	21 34	0 6	15 12	0 45	22 8	0 45	16 35	6 40	23 17	23 21	23 23	17 6	4 28							
T 24	14 27	18 23	2 50	5 53	2 11	26 8	2 46	6 25	1 28	23 19	0 23	21 34	0 6	15 12	0 45	22 8	0 45	16 35	6 40	23 17	23 21	23 23	17 7	4 28							
F 25	14 47	14 24	3 47	6 6	2 15	26 13	2 48	6 11	1 29	23 18	0 23	21 34	0 6	15 12	0 45	22 8	0 45	16 34	6 41	23 17	23 21	23 23	17 9	4 28							
S 26	15 6	9 47	4 30	6 22	2 17	26 17	2 49	5 57	1 29	23 17	0 23	21 34	0 6	15 12	0 45	22 8	0 45	16 34	6 41	23 17	23 21	23 23	17 10	4 28							
S 27	15 24	4 49	4 58	6 42	2 18	26 20	2 51	5 43	1 29	23 17	0 23	21 34	0 6	15 12	0 45	22 8	0 45	16 34	6 41	23 17	23 21	23 23	17 11	4 28							
M28	15 43	0s16	5 10	7 5	2 18	26 22	2 52	5 29	1 29	23 16	0 23	21 34	0 6	15 12	0 45	22 8	0 45	16 34	6 41	23 16	23 21	23 23	17 12	4 28							
T 29	16 1	5 14	5 6	7 30	2 17	26 24	2 53	5 16	1 30	23 15	0 23	21 35	0 6	15 12	0 44	22 8	0 45	16 34	6 41	23 16	23 20	23 23	17 13	4 28							
W30	16 19	9 55	4 48	7 58	2 15	26 25	2 54	5 2	1 30	23 14	0 23	21 35	0 6	15 12	0 44	22 8	0 45	16 34	6 41	23 16	23 20	23 23	17 14	4 28							
T 31	16s37	14s 8	4s16	8s27	2n12	26s25	2s55	4n48	1n30	23s13	0s23	21n35	0s 6	15s12	0s44	22n 8	0s45	16n34	6s41	23s15	23s20	23s23	17s15	4n28							

ASTRODIENST EPHEMERIS for the year 1415

geocentric

NOVEMBER 1415 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	3 12 43	16 ¹⁴ 47'27	8 ¹¹ 22	28 ²¹ 31	2 ²⁸ 50	22 ¹⁷ 0	13 ³ 42	22 ² R13	21 ¹ 10	12 ² R54	21 ² R18	21 ² R34	23 ² 3	14 ² 36	7 ² 46	F 1	
S 2	3 16 40	17 ² 48'03	20 ² 23	29 ² 52	3 ² 57	22 ² 36	13 ² 52	22 ² 12	21 ² 10	12 ² 54	21 ² 17	21 ² 29	22 ² 59	14 ² 43	7 ² 53	S 2	
S 3	3 20 36	18 ² 48'41	2 ² 16	1 ² 15	5 ² 4	23 ² 11	14 ² 3	22 ² 11	21 ² 11	12 ² 53	21 ² 16	21 ² 26	22 ² 56	14 ² 49	8 ² 0	S 3	
M 4	3 24 33	19 ² 49'20	14 ² 5	2 ² 40	6 ² 10	23 ² 47	14 ² 14	22 ² 11	21 ² 11	12 ² 52	21 ² 16	21 ² 24	22 ² 53	14 ² 56	8 ² 6	M 4	
T 5	3 28 30	20 ² 50'00	25 ² 51	4 ² 7	7 ² 16	24 ² 22	14 ² 25	22 ² 10	21 ² 12	12 ² 51	21 ² 15	21 ² D24	22 ² 50	15 ² 3	8 ² 13	T 5	
W 6	3 32 26	21 ² 50'42	7 ² 38	5 ² 35	8 ² 22	24 ² 57	14 ² 36	22 ² 8	21 ² 13	12 ² 50	21 ² 14	21 ² 25	22 ² 47	15 ² 9	8 ² 20	W 6	
T 7	3 36 23	22 ² 51'25	19 ² 28	7 ² 4	9 ² 28	25 ² 33	14 ² 47	22 ² 7	21 ² 13	12 ² 49	21 ² 12	21 ² 27	22 ² 44	15 ² 16	8 ² 27	T 7	
F 8	3 40 19	23 ² 52'09	1 ² 27	8 ² 33	10 ² 33	26 ² 8	14 ² 58	22 ² 6	21 ² 14	12 ² 48	21 ² 11	21 ² 29	22 ² 40	15 ² 23	8 ² 34	F 8	
S 9	3 44 16	24 ² 52'54	13 ² 39	10 ² 4	11 ² 39	26 ² 43	15 ² 10	22 ² 4	21 ² 15	12 ² 47	21 ² 10	21 ² 30	22 ² 37	15 ² 29	8 ² 40	S 9	
S 10	3 48 12	25 ² 53'40	26 ² 8	11 ² 35	12 ² 44	27 ² 18	15 ² 21	22 ² 3	21 ² 16	12 ² 46	21 ² 9	21 ² R30	22 ² 34	15 ² 36	8 ² 47	S 10	
M11	3 52 9	26 ² 54'27	8 ² 59	13 ² 7	13 ² 48	27 ² 53	15 ² 32	22 ² 1	21 ² 17	12 ² 45	21 ² 8	21 ² 30	22 ² 31	15 ² 42	8 ² 54	M11	
T 12	3 56 5	27 ² 55'15	22 ² 17	14 ² 39	14 ² 53	28 ² 28	15 ² 44	21 ² 59	21 ² 18	12 ² 44	21 ² 7	21 ² 28	22 ² 28	15 ² 49	9 ² 1	T 12	
W13	4 0 2	28 ² 56'04	6 ² Y 2	16 ² 11	15 ² 57	29 ² 3	15 ² 56	21 ² 57	21 ² 19	12 ² 43	21 ² 6	21 ² 25	22 ² 24	15 ² 56	9 ² 8	W13	
T 14	4 3 59	29 ² 56'54	20 ² 16	17 ² 44	17 ² 1	29 ² 38	16 ² 8	21 ² 55	21 ² 20	12 ² 42	21 ² 5	21 ² 22	22 ² 21	16 ² 2	9 ² 15	T 14	
F 15	4 7 55	0 ² 57'45	4 ² 56	19 ² 17	18 ² 5	0 ² 13	16 ² 19	21 ² 53	21 ² 21	12 ² 41	21 ² 4	21 ² 19	22 ² 18	16 ² 9	9 ² 22	F 15	
S 16	4 11 52	1 ² 58'37	19 ² 55	20 ² 50	19 ² 8	0 ² 48	16 ² 31	21 ² 51	21 ² 22	12 ² 39	21 ² 3	21 ² 17	22 ² 15	16 ² 16	9 ² 29	S 16	
S 17	4 15 48	2 ² 59'30	5 ² II 6	22 ² 23	20 ² 11	1 ² 22	16 ² 43	21 ² 49	21 ² 24	12 ² 38	21 ² 2	21 ² 15	22 ² 12	16 ² 22	9 ² 36	S 17	
M18	4 19 45	4 ² 0'24	20 ² 19	23 ² 56	21 ² 14	1 ² 57	16 ² 56	21 ² 46	21 ² 25	12 ² 37	21 ² 1	21 ² D15	22 ² 9	16 ² 29	9 ² 43	M18	
T 19	4 23 41	5 ² 1'20	5 ² 25	25 ² 30	22 ² 16	2 ² 32	17 ² 8	21 ² 44	21 ² 26	12 ² 36	20 ² 59	21 ² 15	22 ² 5	16 ² 36	9 ² 50	T 19	
W 20	4 27 38	6 ² 2'17	20 ² 14	27 ² 3	23 ² 18	3 ² 6	17 ² 20	21 ² 41	21 ² 28	12 ² 35	20 ² 58	21 ² 16	22 ² 2	16 ² 42	9 ² 57	W 20	
T 21	4 31 34	7 ² 3'14	4 ² 41	28 ² 36	24 ² 20	3 ² 41	17 ² 32	21 ² 38	21 ² 29	12 ² 33	20 ² 57	21 ² 17	21 ² 59	16 ² 49	10 ² 4	T 21	
F 22	4 35 31	8 ² 4'13	18 ² 44	0 ² 10	25 ² 21	4 ² 15	17 ² 45	21 ² 36	21 ² 30	12 ² 32	20 ² 56	21 ² 19	21 ² 56	16 ² 56	10 ² 11	F 22	
S 23	4 39 28	9 ² 5'13	2 ² 11	1 ² 43	26 ² 22	4 ² 50	17 ² 57	21 ² 33	21 ² 32	12 ² 31	20 ² 55	21 ² 19	21 ² 53	17 ² 2	10 ² 18	S 23	
S 24	4 43 24	10 ² 6'15	15 ² 33	3 ² 17	27 ² 23	5 ² 24	18 ² 10	21 ² 30	21 ² 34	12 ² 29	20 ² 54	21 ² R19	21 ² 50	17 ² 9	10 ² 25	S 24	
M25	4 47 21	11 ² 7'17	28 ² 25	4 ² 51	28 ² 23	5 ² 58	18 ² 22	21 ² 27	21 ² 35	12 ² 28	20 ² 52	21 ² 19	21 ² 46	17 ² 16	10 ² 32	M25	
T 26	4 51 17	12 ² 8'20	10 ² 58	6 ² 24	29 ² 23	6 ² 32	18 ² 35	21 ² 23	21 ² 37	12 ² 26	20 ² 51	21 ² 18	21 ² 43	17 ² 22	10 ² 38	T 26	
W27	4 55 14	13 ² 9'25	23 ² 16	7 ² 58	0 ² 22	7 ² 6	18 ² 48	21 ² 20	21 ² 39	12 ² 25	20 ² 50	21 ² 17	21 ² 40	17 ² 29	10 ² 45	W27	
T 28	4 59 10	14 ² 10'30	5 ² 11	9 ² 32	1 ² 21	7 ² 40	19 ² 1	21 ² 17	21 ² 40	12 ² 24	20 ² 49	21 ² 15	21 ² 37	17 ² 35	10 ² 52	T 28	
F 29	5 3 7	15 ² 11'37	17 ² 21	11 ² 6	2 ² 19	8 ² 14	19 ² 14	21 ² 13	21 ² 42	12 ² 22	20 ² 48	21 ² 15	21 ² 34	17 ² 42	10 ² 59	F 29	
S 30	5 7 3	16 ² 12'44	29 ² 11	12 ² 10	3 ² 17	8 ² 48	19 ² 27	21 ² 10	21 ² 44	12 ² 21	20 ² 47	21 ² 14	21 ² 30	17 ² 49	11 ² 6	S 30	

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	16s54	17s42	3s34	8s58	2n 9	26s24	2s55	4n34	1n31	23s12	0s23	21n35	0s 6	15s11	0s44	22n 8	0s45	16n34	6s41	23s15	23s20	23s23	17s16	4n28			
S 2	17 12	20 30	2 42	9 30	2 5	26 23	2 56	4 20	1 31	23 11	0 23	21 35	0 5	15 11	0 44	22 8	0 45	16 34	6 41	23 14	23 20	23 22	17 17	4 28			
S 3	17 28	22 22	1 43	10 4	2 1	26 21	2 56	4 6	1 31	23 9	0 23	21 36	0 5	15 11	0 44	22 8	0 45	16 34	6 41	23 14	23 20	23 22	17 18	4 28			
M 4	17 45	23 14	0 40	10 37	1 56	26 19	2 57	3 53	1 31	23 8	0 23	21 36	0 5	15 11	0 44	22 8	0 45	16 33	6 41	23 14	23 19	23 22	17 19	4 28			
T 5	18 1	23 3	0n24	11 12	1 51	26 16	2 57	3 39	1 32	23 7	0 23	21 36	0 5	15 11	0 44	22 8	0 45	16 33	6 41	23 14	23 19	23 22	17 20	4 28			
W 6	18 17	21 50	1 28	11 46	1 45	26 12	2 57	3 25	1 32	23 6	0 23	21 36	0 5	15 10	0 44	22 8	0 45	16 33	6 41	23 14	23 19	23 22	17 21	4 28			
T 7	18 33	19 39	2 28	12 21	1 39	26 7	2 57	3 11	1 32	23 5	0 24	21 37	0 5	15 10	0 44	22 8	0 45	16 33	6 41	23 14	23 19	23 22	17 22	4 28			
F 8	18 48	16 36	3 23	12 56	1 33	26 2	2 57	2 57	1 32	23 4	0 24	21 37	0 5	15 10	0 44	22 8	0 46	16 33	6 41	23 14	23 19	23 22	17 23	4 28			
S 9	19 3	12 48	4 9	13 31	1 26	25 56	2 57	2 44	1 33	23 3	0 24	21 37	0 5	15 9	0 44	22 9	0 46	16 33	6 41	23 14	23 19	23 22	17 24	4 28			
S 10	19 17	8 22	4 45	14 5	1 20	25 50	2 56	2 30	1 33	23 1	0 24	21 38	0 5	15 9	0 44	22 9	0 46	16 33	6 41	23 15	23 18	23 21	17 25	4 28			
M11	19 32	3 28	5 8	14 40	1 13	25 42	2 56	2 16	1 33	23 0	0 24	21 38	0 5	15 9	0 44	22 9	0 46	16 33	6 41	23 14	23 18	23 21	17 26	4 28			
T 12	19 46	1n45	5 15	15 14	1 6	25 35	2 55	2 2	1 33	22 59	0 24	21 38	0 5	15 8	0 44	22 9	0 46	16 33	6 41	23 14	23 18	23 21	17 27	4 28			
W13	19 59	7 4	5 5	15 47	0 59	25 26	2 54	1 49	1 34	22 57	0 24	21 39	0 4	15 8	0 44	22 9	0 46	16 33	6 41	23 14	23 18	23 21	17 28	4 28			
T 14	20 12	12 12	4 36	16 20	0 52	25 17	2 53	1 35	1 34	22 56	0 24	21 39	0 4	15 8	0 44	22 9	0 46	16 33	6 41	23 14	23 18	23 21	17 29	4 29			
F 15	20 25	16 48	3 49	16 52	0 45	25 7	2 52	1 21	1 34	22 55	0 24	21 40	0 4	15 7	0 44	22 9	0 46	16 33	6 41	23 14	23 17	23 21	17 30	4 29			
S 16	20 37	20 25	2 45	17 24	0 38	24 57	2 50	1 8	1 34	22 53	0 24	21 40	0 4	15 7	0 44	22 9	0 46	16 32	6 41	23 14	23 17	23 20	17 31	4 29			
S 17	20 49	22 40	1 28	17 55	0 31	24 46	2 49	0 54	1 35	22 52	0 24	21 41	0 4	15 6	0 44	22 9	0 46	16 32	6 41	23 14	23 17	23 20	17 32	4 29			
M18	21 1	23 15	0 5	18 25	0 24	24 35	2 47	0 40	1 35	22 50	0 24	21 41	0 4	15 6	0 44	22 9	0 46	16 32	6 41	23 13	23 17	23 20	17 33	4 29			
T 19	21 12	22 7	1s18	18 55	0 17	24 23	2 45	0 27	1 35	22 49	0 24	21 42	0 4	15 6	0 44	22 10	0 46	16 32	6 41	23 14	23 17	23 20	17 34	4 29			
W20	21 23	19 27	2 34	19 24	0 10	24 11	2 43	0 13	1 35	22 47	0 24	21 42	0 4	15 5	0 44	22 10	0 46	16 32	6 41	23 14	23 16	23 20	17 34	4 29			
T 21	21 33	15 37	3 38	19 51	0 3	23 57	2 41	0s 0	1 36	22 46	0 24	21 43	0 4	15 5	0 44	22 10	0 46	16 32	6 41	23 14	23 16	23 19	17 35	4 29			
F 22	21 43	11 1	4 28	20 18	0s 3	23 44	2 39	0 14	1 36	22 44	0 24	21 43	0 4	15 4	0 44	22 10	0 46	16 32	6 41	23 14	23 16	23 19	17 36	4 29			
S 23	21 53	6 0	5 0	20 44	0 10	23 30	2 36	0 27	1 36	22 43	0 24	21 44	0 3	15 4	0 44	22 10	0 46	16 32	6 41	23 14	23 16	23 19	17 37	4 30			
S 24	22 2	0 51	5 16	21 9	0 17	23 15	2 33	0 41	1 36	22 41	0 24	21 44	0 3	15 3	0 44	22 10	0 46	16 32	6 41	23 14	23 16	23 19	17 38	4 30			
M25	22 11	4s11	5 15	21 33	0 24	23 0	2 30	0 54	1 37	22 39	0 25	21 45	0 3	15 2	0 44	22 10	0 46	16 32	6 41	23 14	23 16	23 18	17 39	4 30			
T 26	22 19	8 56	4 59	21 56	0 30	22 45	2 27	1 7	1 37	22 38	0 25	21 45	0 3	15 2	0 44	22 10	0 46	16 32	6 41	23 14	23 15	23 18	17 39	4 30			
W27	22 27	13 14	4 30	22 18	0 36	22 29	2 24	1 21	1 37	22 36	0 25	21 46	0 3	15 1	0 43	22 11	0 46	16 32	6 41	23 14	23 15	23 18	17 40	4 30			
T 28	22 34	16 56	3 48	22 39	0 43	22 12	2 20	1 34	1 37	22 34	0 25	21 47	0 3	15 1	0 43	22 11	0 46	16 32	6 41	23 14	23 15	23 18	17 41	4 30			
F 29	22 41	19 54	2 58	22 59	0 49	22 55	2 17	1 47	1 38	22 32	0 25	21 47	0 3	15 0	0 43	22 11	0 46	16 32	6 41	23 13	23 15	23 17	17 42	4 30			
S 30	22s48	21s59	1s59	23s18	0s55	21s38	2s13	2s 0	1n38	22s31	0s25	21n48	0s 3	14s59	0s43	22n11	0s46	16n32	6s41	23s13	23s14	23s17	17s43	4n31			

ASTRODIENST EPHEMERIS for the year 1415

geocentric

DECEMBER 1415 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 11 0	17°13'52	11°1	14°15	4°11	9°22	19°340	21°R 6	21°46	12°R19	20°R45	21°R14	21°27	17°55	11°13	S 1
M 2	5 14 57	18°15'00	22°48	15°49	5°11	9°56	19°53	21°2	21°48	12°18	20°144	21°D13	21°24	18° 2	11°20	M 2
T 3	5 18 53	19°16'09	4°36	17°23	6° 7	10°29	20° 6	20°59	21°50	12°16	20°43	21°14	21°21	18° 9	11°27	T 3
W 4	5 22 50	20°17'19	16°27	18°58	7° 3	11° 3	20°19	20°55	21°52	12°15	20°42	21°14	21°18	18°15	11°34	W 4
T 5	5 26 46	21°18'29	28°23	20°33	7°58	11°37	20°32	20°51	21°54	12°13	20°41	21°R14	21°15	18°22	11°41	T 5
F 6	5 30 43	22°19'39	10°27	22° 8	8°53	12°10	20°46	20°47	21°56	12°11	20°39	21°14	21°11	18°29	11°48	F 6
S 7	5 34 39	23°20'49	22°43	23°43	9°47	12°43	20°59	20°43	21°58	12°10	20°38	21°13	21° 8	18°35	11°55	S 7
S 8	5 38 36	24°22'00	5°12	25°19	10°40	13°17	21°12	20°39	22° 0	12° 8	20°37	21°13	21° 5	18°42	12° 1	S 8
M 9	5 42 32	25°23'10	18° 0	26°55	11°32	13°50	21°26	20°35	22° 2	12° 7	20°36	21°13	21° 2	18°49	12° 8	M 9
T 10	5 46 29	26°24'20	1°10	28°31	12°24	14°23	21°39	20°30	22° 5	12° 5	20°35	21°D13	20°59	18°55	12°15	T 10
W11	5 50 26	27°25'31	14°43	0° 7	13°15	14°56	21°53	20°26	22° 7	12° 3	20°33	21°13	20°56	19° 2	12°22	W11
T 12	5 54 22	28°26'41	28°42	1°44	14° 5	15°29	22° 6	20°22	22° 9	12° 2	20°32	21°14	20°52	19° 8	12°29	T 12
F 13	5 58 19	29°27'51	13° 7	3°20	14°54	16° 1	22°20	20°17	22°12	12° 0	20°31	21°14	20°49	19°15	12°35	F 13
S 14	6 2 15	0°29'01	27°53	4°58	15°42	16°34	22°34	20°13	22°14	11°58	20°30	21°15	20°46	19°22	12°42	S 14
S 15	6 6 12	1°30'11	12°57	6°35	16°30	17° 7	22°47	20° 8	22°17	11°57	20°29	21°16	20°43	19°28	12°49	S 15
M16	6 10 8	2°31'22	28° 9	8°13	17°16	17°39	23° 1	20° 4	22°19	11°55	20°28	21°R16	20°40	19°35	12°56	M16
T 17	6 14 5	3°32'32	13°21	9°51	18° 2	18°11	23°15	19°59	22°22	11°53	20°26	21°15	20°36	19°42	13° 2	T 17
W18	6 18 2	4°33'42	28°22	11°29	18°46	18°44	23°29	19°54	22°24	11°52	20°25	21°14	20°33	19°48	13° 9	W18
T 19	6 21 58	5°34'52	13° 5	13° 7	19°30	19°16	23°43	19°50	22°27	11°50	20°24	21°12	20°30	19°55	13°15	T 19
F 20	6 25 55	6°36'02	27°22	14°46	20°12	19°48	23°56	19°45	22°29	11°48	20°23	21°10	20°27	20° 2	13°22	F 20
S 21	6 29 51	7°37'12	11°12	16°25	20°53	20°20	24°10	19°40	22°32	11°47	20°22	21° 8	20°24	20° 8	13°28	S 21
S 22	6 33 48	8°38'23	24°34	18° 4	21°33	20°52	24°24	19°35	22°35	11°45	20°21	21° 7	20°21	20°15	13°35	S 22
M23	6 37 44	9°39'33	7°29	19°44	22°12	21°24	24°38	19°31	22°37	11°43	20°20	21°D 6	20°17	20°22	13°41	M23
T 24	6 41 41	10°40'43	20° 2	21°23	22°49	21°55	24°52	19°26	22°40	11°42	20°18	21° 6	20°14	20°28	13°48	T 24
W25	6 45 37	11°41'54	2°17	23° 2	23°26	22°27	25° 6	19°21	22°43	11°40	20°17	21° 8	20°11	20°35	13°54	W25
T 26	6 49 34	12°43'04	14°18	24°41	24° 0	22°58	25°20	19°16	22°46	11°38	20°16	21° 9	20° 8	20°42	14° 1	T 26
F 27	6 53 31	13°44'14	26°10	26°20	24°34	23°30	25°34	19°11	22°49	11°37	20°15	21°11	20° 5	20°48	14° 7	F 27
S 28	6 57 27	14°45'24	7°58	27°59	25° 5	24° 1	25°48	19° 6	22°52	11°35	20°14	21°12	20° 2	20°55	14°13	S 28
S 29	7 1 24	15°46'34	19°44	29°37	25°36	24°32	26° 3	19° 1	22°54	11°33	20°13	21°R13	19°58	21° 1	14°20	S 29
M30	7 5 20	16°47'43	1°32	18°14	26° 4	25° 3	26°17	18°56	22°57	11°31	20°12	21°13	19°55	21° 8	14°26	M30
T 31	7 9 17	17°48'52	13°24	2°50	26°31	25°34	26°31	18°51	23°30	11°30	20°11	21°11	19°52	21°15	14°32	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	22s54	23s 6	0s56	23s35	1s 1	21s21	2s 9	2s13	1n38	22s29	0s25	21n49	0s 3	14s59	0s43	22n11
M 2	23 0	23 10	0n 9	23 51	1 6	21 3	2 4	2 26	1 38	22 27	0 25	21 49	0 2	14 58	0 43	22 11
T 3	23 5	22 12	1 14	24 6	1 12	20 44	2 0	2 39	1 38	22 25	0 25	21 50	0 2	14 57	0 43	22 11
W 4	23 9	20 15	2 16	24 20	1 17	20 25	1 55	2 52	1 39	22 23	0 25	21 51	0 2	14 57	0 43	22 11
T 5	23 14	17 24	3 12	24 33	1 22	20 6	1 50	3 5	1 39	22 21	0 25	21 51	0 2	14 56	0 43	22 12
F 6	23 17	13 48	4 1	24 44	1 27	19 47	1 45	3 18	1 39	22 19	0 25	21 52	0 2	14 55	0 43	22 12
S 7	23 21	9 35	4 40	24 54	1 32	19 27	1 40	3 31	1 39	22 17	0 25	21 53	0 2	14 55	0 43	22 12
S 8	23 24	4 53	5 6	25 2	1 36	19 8	1 34	3 44	1 39	22 15	0 25	21 54	0 2	14 54	0 43	22 12
M 9	23 26	0n 7	5 18	25 9	1 41	18 47	1 28	3 56	1 40	22 13	0 25	21 54	0 2	14 53	0 43	22 12
T 10	23 28	5 15	5 13	25 15	1 45	18 27	1 22	4 9	1 40	22 11	0 25	21 55	0 2	14 52	0 43	22 12
W11	23 29	10 18	4 52	25 19	1 48	18 6	1 16	4 22	1 40	22 9	0 26	21 56	0 2	14 52	0 43	22 13
T 12	23 30	14 59	4 13	25 22	1 52	17 46	1 9	4 34	1 40	22 7	0 26	21 57	0 1	14 51	0 43	22 13
F 13	23 31	18 57	3 17	25 23	1 55	17 25	1 3	4 47	1 41	22 5	0 26	21 57	0 1	14 50	0 43	22 13
S 14	23 31	21 48	2 6	25 23	1 58	17 4	0 56	4 59	1 41	22 3	0 26	21 58	0 1	14 49	0 43	22 13
S 15	23 30	23 11	0 46	25 21	2 0	16 43	0 48	5 11	1 41	22 0	0 26	21 59	0 1	14 48	0 43	22 13
M16	23 29	22 52	0s38	25 18	2 2	16 21	0 41	5 24	1 41	21 58	0 26	22 0	0 1	14 48	0 43	22 13
T 17	23 28	20 51	2 0	25 13	2 4	16 0	0 33	5 36	1 41	21 56	0 26	22 0	0 1	14 47	0 43	22 13
W18	23 26	17 25	3 12	25 6	2 6	15 38	0 25	5 48	1 41	21 54	0 26	22 1	0 1	14 46	0 43	22 14
T 19	23 24	12 57	4 10	24 58	2 7	15 17	0 17	6 0	1 42	21 51	0 26	22 2	0 1	14 45	0 43	22 14
F 20	23 21	7 53	4 50	24 48	2 7	14 56	0 8	6 12	1 42	21 49	0 26	22 3	0 1	14 44	0 43	22 14
S 21	23 18	2 34	5 12	24 37	2 8	14 34	0n 1	6 24	1 42	21 47	0 26	22 4	0 0	14 43	0 43	22 14
S 22	23 14	2s40	5 16	24 24	2 7	14 13	0 10	6 36	1 42	21 44	0 26	22 4	0 0	14 42	0 43	22 14
M23	23 10	7 38	5 4	24 9	2 7	13 51	0 19	6 47	1 42	21 42	0 26	22 5	0 0	14 41	0 43	22 14
T 24	23 5	12 8	4 37	23 52	2 5	13 30	0 29	6 59	1 42	21 39	0 26	22 6	0 0	14 40	0 43	22 15
W25	23 0	16 2	3 59	23 34	2 4	13 9	0 39	7 11	1 43	21 37	0 27	22 7	0 0	14 40	0 43	22 15
T 26	22 54	19 12	3 10	23 15	2 1	12 48	0 49	7 22	1 43	21 34	0 27	22 8	0n 0	14 39	0 43	22 15
F 27	22 48	21 32	2 14	22 53	1 58	12 27	0 59	7 33	1 43	21 32	0 27	22 8	0 0	14 38	0 43	22 15
S 28	22 42	22 54	1 13	22 30	1 55	12 6	1 10	7 45	1 43	21 29	0 27	22 9	0 0	14 37	0 43	22 15
S 29	22 35	23 15	0 8	22 6	1 51	11 45	1 21	7 56	1 43	21 27	0 27	22 10	0 0	14 36	0 43	22 15
M30	22 27	22 34	0n57	21 40	1 46	11 25	1 32	8 7	1 43	21 24	0 27	22 11	0 1	14 35	0 43	22 15
T 31	22s19	20s52	1n59	21s12	1s40	11s 5	1n44	8s18	1n44	21s22	0s27	22n12	0n 1	14s34	0s43	22n16

Julian Day Number = 2238220.5, Delta T = 07m27s

Ecliptic obliquity = 23°30'53", Nutation = 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°35'32", Lahiri = 15°42'32" Julian Calendar 1 Dec. 1415 == Greg. Calendar 10 Dec. 1415