



Astrodienst Ephemeris Tables for the year 1411

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 1411

geocentric

JANUARY 1411 JC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	7 14 2	19°3'00	4°28	14°R28	2°K53	20°Z47	12°R33	4°B25	4°3	0°R 0	14°R53	25°K27	26°K30	27°B50	5°14	T 1
F 2	7 17 59	20° 4'06	16°42	13°Z14	4° 2	21°33	12°M30	4°26	4° 6	29°II59	14°II52	25°R27	26°27	27°57	5°15	F 2
S 3	7 21 55	21° 5'11	28°43	12° 7	5°11	22°20	12°28	4°26	4° 9	29°57	14°51	25°27	26°24	28° 3	5°16	S 3
S 4	7 25 52	22° 6'16	10°B35	11° 6	6°20	23° 7	12°25	4°27	4°13	29°55	14°50	25°25	26°21	28°10	5°16	S 4
M 5	7 29 49	23° 7'19	22°25	10°14	7°29	23°54	12°22	4°28	4°16	29°54	14°49	25°21	26°18	28°17	5°17	M 5
T 6	7 33 45	24° 8'22	4°II16	9°30	8°38	24°41	12°19	4°29	4°20	29°52	14°48	25°14	26°14	28°23	5°18	T 6
W 7	7 37 42	25° 9'23	16°13	8°56	9°46	25°28	12°16	4°30	4°23	29°51	14°47	25° 5	26°11	28°30	5°18	W 7
T 8	7 41 38	26°10'24	28°18	8°30	10°55	26°16	12°12	4°31	4°27	29°49	14°46	24°54	26° 8	28°37	5°19	T 8
F 9	7 45 35	27°11'23	10°B33	8°14	12° 3	27° 3	12° 8	4°32	4°30	29°48	14°45	24°42	26° 5	28°44	5°19	F 9
S 10	7 49 31	28°12'22	23° 0	8°D 6	13°11	27°50	12° 5	4°33	4°34	29°46	14°45	24°31	26° 2	28°50	5°19	S 10
S 11	7 53 28	29°13'20	5°B39	8° 6	14°18	28°37	12° 1	4°35	4°37	29°45	14°44	24°21	25°58	28°57	5°R19	S 11
M12	7 57 24	0°14'16	18°29	8°14	15°26	29°24	11°56	4°36	4°41	29°44	14°43	24°14	25°55	29° 4	5°19	M12
T 13	8 1 21	1°15'12	1°M30	8°29	16°33	0°11	11°52	4°38	4°44	29°42	14°42	24° 9	25°52	29°10	5°19	T 13
W14	8 5 18	2°16'07	14°43	8°51	17°40	0°58	11°47	4°40	4°48	29°41	14°42	24° 6	25°49	29°17	5°18	W14
T 15	8 9 14	3°17'01	28° 6	9°18	18°47	1°46	11°43	4°42	4°51	29°39	14°41	24°D 6	25°46	29°24	5°18	T 15
F 16	8 13 11	4°17'54	11°B41	9°51	19°54	2°33	11°38	4°44	4°55	29°38	14°40	24° 7	25°43	29°31	5°17	F 16
S 17	8 17 7	5°18'46	25°28	10°29	21° 0	3°20	11°33	4°46	4°58	29°37	14°39	24° 8	25°39	29°37	5°17	S 17
S 18	8 21 4	6°19'38	9°M27	11°11	22° 6	4° 7	11°28	4°48	5° 2	29°35	14°39	24°R 8	25°36	29°44	5°16	S 18
M19	8 25 0	7°20'28	23°38	11°58	23°12	4°55	11°22	4°51	5° 5	29°34	14°38	24° 7	25°33	29°51	5°15	M19
T 20	8 28 57	8°21'18	7°K59	12°48	24°17	5°42	11°17	4°53	5° 9	29°33	14°37	24° 4	25°30	29°57	5°14	T 20
W21	8 32 53	9°22'07	22°28	13°42	25°23	6°29	11°11	4°56	5°12	29°32	14°37	23°59	25°27	0°II 4	5°13	W21
T 22	8 36 50	10°22'55	6°B58	14°39	26°28	7°16	11° 6	4°58	5°16	29°30	14°36	23°52	25°24	0°11	5°12	T 22
F 23	8 40 47	11°23'41	21°25	15°39	27°33	8° 4	11° 0	5° 1	5°19	29°29	14°36	23°45	25°20	0°18	5°10	F 23
S 24	8 44 43	12°24'27	5°142	16°41	28°37	8°51	10°54	5° 4	5°23	29°28	14°35	23°38	25°17	0°24	5° 9	S 24
S 25	8 48 40	13°25'11	19°43	17°46	29°41	9°38	10°47	5° 7	5°26	29°27	14°34	23°33	25°14	0°31	5° 7	S 25
M26	8 52 36	14°25'53	3°K24	18°53	0°Y45	10°26	10°41	5°10	5°30	29°26	14°34	23°29	25°11	0°38	5° 5	M26
T 27	8 56 33	15°26'34	16°42	20° 3	1°49	11°13	10°35	5°13	5°33	29°25	14°33	23°27	25° 8	0°44	5° 3	T 27
W28	9 0 29	16°27'13	29°38	21°14	2°52	12° 0	10°28	5°17	5°36	29°24	14°33	23°D27	25° 4	0°51	5° 1	W28
T 29	9 4 26	17°27'51	12°Y13	22°27	3°55	12°48	10°22	5°20	5°40	29°23	14°32	23°28	25° 1	0°58	4°59	T 29
F 30	9 8 22	18°28'27	24°31	23°41	4°58	13°35	10°15	5°23	5°43	29°22	14°32	23°30	24°58	1° 4	4°57	F 30
S 31	9 12 19	19°29'01	6°B35	24°B58	6°Y 0	14°23	10°M 8	5°B27	5°147	29°II21	14°II32	23°K31	24°K55	1°II11	4°155	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
T 1	22s10	2n31	0n48	19s24	3n21	11s36	1s12	22s54	1s 0	8n 5	1n18	10n46	2s25	19s53	0s36	22n27	1s 4	14n38	8s 5	1s49	1s24	24n 8	5s 0	3s11		
F 2	22 1	8 17	1 51	19 26	3 26	11 8	1 9	22 47	1 0	8 6	1 19	10 46	2 24	19 52	0 36	22 27	1 4	14 38	8 4	1 49	1 25	24 10	5 0	3 11		
S 3	21 52	13 39	2 47	19 30	3 29	10 39	1 6	22 39	1 1	8 7	1 19	10 47	2 24	19 51	0 36	22 27	1 4	14 38	8 4	1 49	1 26	24 12	5 1	3 11		
S 4	21 42	18 28	3 36	19 34	3 29	10 11	1 2	22 32	1 1	8 9	1 19	10 47	2 24	19 51	0 36	22 27	1 4	14 38	8 4	1 50	1 27	24 14	5 1	3 11		
M 5	21 32	22 33	4 16	19 40	3 28	9 41	0 58	22 24	1 1	8 10	1 20	10 48	2 24	19 50	0 36	22 27	1 4	14 38	8 4	1 51	1 29	24 16	5 2	3 11		
T 6	21 21	25 43	4 44	19 47	3 24	9 12	0 55	22 16	1 1	8 11	1 20	10 48	2 23	19 49	0 36	22 27	1 4	14 38	8 4	1 54	1 30	24 18	5 2	3 11		
W 7	21 10	27 46	5 0	19 54	3 19	8 43	0 51	22 7	1 2	8 13	1 20	10 49	2 23	19 48	0 36	22 27	1 4	14 38	8 4	1 58	1 31	24 20	5 2	3 11		
T 8	20 59	28 33	5 3	20 3	3 12	8 13	0 47	21 59	1 2	8 15	1 20	10 50	2 23	19 47	0 36	22 27	1 4	14 38	8 3	2 2	1 33	24 22	5 2	3 11		
F 9	20 47	27 57	4 52	20 11	3 5	7 43	0 43	21 50	1 2	8 16	1 21	10 50	2 22	19 46	0 36	22 27	1 4	14 38	8 3	2 7	1 34	24 24	5 3	3 11		
S 10	20 35	25 57	4 28	20 20	2 56	7 13	0 38	21 41	1 2	8 18	1 21	10 51	2 22	19 46	0 36	22 27	1 4	14 38	8 3	2 11	1 35	24 26	5 3	3 11		
S 11	20 23	22 37	3 49	20 30	2 47	6 43	0 34	21 31	1 2	8 20	1 21	10 52	2 22	19 45	0 36	22 27	1 4	14 38	8 3	2 15	1 36	24 28	5 3	3 11		
M12	20 10	18 10	2 59	20 39	2 37	6 13	0 30	21 22	1 3	8 22	1 21	10 53	2 21	19 44	0 36	22 27	1 4	14 39	8 3	2 18	1 38	24 30	5 3	3 11		
T 13	19 57	12 49	1 58	20 48	2 27	5 43	0 25	21 12	1 3	8 23	1 22	10 54	2 21	19 43	0 36	22 27	1 4	14 39	8 3	2 20	1 39	24 32	5 3	3 11		
W14	19 43	6 49	0 50	20 58	2 16	5 12	0 21	21 2	1 3	8 25	1 22	10 55	2 21	19 42	0 36	22 27	1 4	14 39	8 2	2 21	1 40	24 33	5 3	3 11		
T 15	19 29	0 26	0s22	21 7	2 5	4 42	0 16	20 52	1 3	8 27	1 22	10 55	2 20	19 41	0 36	22 27	1 4	14 39	8 2	2 21	1 41	24 35	5 2	3 11		
F 16	19 15	6s 4	1 33	21 15	1 54	4 11	0 11	20 41	1 3	8 30	1 22	10 56	2 20	19 41	0 36	22 27	1 4	14 39	8 2	2 21	1 43	24 37	5 2	3 12		
S 17	19 0	12 22	2 41	21 23	1 43	3 41	0 7	20 30	1 3	8 32	1 23	10 57	2 20	19 40	0 36	22 27	1 4	14 39	8 2	2 20	1 44	24 39	5 2	3 12		
S 18	18 45	18 9	3 40	21 31	1 32	3 10	0 2	20 19	1 4	8 34	1 23	10 58	2 20	19 39	0 36	22 27	1 4	14 39	8 2	2 20	1 45	24 41	5 2	3 12		
M19	18 30	23 2	4 26	21 37	1 22	2 39	0n 3	20 8	1 4	8 36	1 23	10 59	2 19	19 38	0 36	22 27	1 4	14 39	8 1	2 21	1 46	24 43	5 1	3 12		
T 20	18 14	26 35	4 56	21 43	1 11	2 9	0 8	19 56	1 4	8 38	1 23	11 1	2 19	19 37	0 36	22 27	1 4	14 39	8 1	2 22	1 48	24 45	5 1	3 12		
W21	17 58	28 26	5 8	21 49	1 0	1 38	0 14	19 45	1 4	8 41	1 24	11 2	2 19	19 36	0 36	22 27	1 4	14 40	8 1	2 24	1 49	24 46	5 0	3 12		
T 22	17 42	28 20	5 0	21 53	0 50	1 7	0 19	19 33	1 4	8 43	1 24	11 3	2 18	19 35	0 36	22 27	1 4	14 40	8 1	2 27	1 50	24 48	5 0	3 12		
F 23	17 25	26 18	4 33	21 56	0 40	0 36	0 24	19 21	1 4	8 46	1 24	11 4	2 18	19 35	0 36	22 27	1 4	14 40	8 1	2 29	1 51	24 50	4 59	3 12		
S 24	17 8	22 37	3 50	21 59	0 30	0 6	0 30	19 8	1 4	8 48	1 24	11 5	2 18	19 34	0 36	22 27	1 4	14 40	8 1	2 32	1 53	24 52	4 59	3 12		
S 25	16 51	17 41	2 53	22 0	0 20	0n25	0 35	18 56	1 4	8 51	1 24	11 7	2 18	19 33	0 36	22 27	1 4	14 40	8 0	2 34	1 54	24 54	4 58	3 12		
M26	16 33	11 57	1 47	22 1	0 10	0 56	0 41	18 43	1 5	8 53	1 25	11 8	2 17	19 32	0 36	22 27	1 4	14 40	8 0	2 36	1 55	24 56	4 57	3 12		
T 27	16 16	5 50	0 37	22 0	0 1	1 26	0 47	18 30	1 5	8 56	1 25	11 9	2 17	19 31	0 36	22 27	1 4	14 40	8 0	2 37	1 57	24 57	4 57	3 12		
W28	15 57	0n22	0n34	21 58	0s 8	1 57	0 52	18 17	1 5	8 59	1 25	11 11	2 17	19 30	0 36	22 28	1 4	14 41	8 0	2 37	1 58	24 59	4 56	3 12		
T 29	15 39	6 23	1 40	21 55	0 17	2 27	0 58	18 4	1 5	9 1	1 25	11 12	2 16	19 30	0 36	22 28	1 3	14 41	8 0	2 36	1 59	25 1	4 55	3 12		
F 30	15 20	12 1	2 41	21 51	0 25	2 57	1 4	17 50	1 5	9 4	1 25	11 13	2 16	19 29	0 36	22 28	1 3	14 41	7 59	2 35	2 0	25 3	4 54	3 12		
S 31	15s 2	17n 7	3n34	21s45	0s33	3n28	1n10	17s36	1s 5	9n 7	1n25	11n15	2s16	19s28	0s36	22n28	1s 3	14n41	7s59	2s35	2s 2	25n 4	4s53	3s11		

ASTRODIENST EPHEMERIS for the year 1411

geocentric

MARCH 1411 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	11 6 39	18°32'34	26°18	10°39	2°8	7°14	6°R28	7°48	7°19	29°R 6	14°II29	23°H 2	23°H23	4°II26	3°R12	S 1	
M 2	11 10 36	19°32'13	8°II10	12°31	2°52	8° 1	6°II20	7°54	7°22	29°D 6	14°29	23° 2	23°20	4°33	3°II 7	M 2	
T 3	11 14 32	20°31'49	20° 4	14°24	3°33	8°48	6°13	8° 0	7°25	29°II 6	14°29	23°R 2	23°16	4°39	3° 3	T 3	
W 4	11 18 29	21°31'24	2°II 2	16°18	4°14	9°35	6° 5	8° 7	7°27	29° 6	14°30	23° 2	23°13	4°46	2°58	W 4	
T 5	11 22 25	22°30'56	14°10	18°14	4°53	10°22	5°58	8°13	7°30	29° 6	14°30	23°D 2	23°10	4°53	2°54	T 5	
F 6	11 26 22	23°30'26	26°33	20°10	5°31	11° 9	5°51	8°19	7°33	29° 6	14°30	23° 2	23° 7	4°59	2°49	F 6	
S 7	11 30 18	24°29'53	9°II13	22° 8	6° 8	11°56	5°44	8°25	7°35	29° 6	14°31	23° 2	23° 4	5° 6	2°44	S 7	
S 8	11 34 15	25°29'18	22°13	24° 7	6°43	12°43	5°37	8°32	7°38	29° 6	14°31	23° 3	23° 1	5°13	2°40	S 8	
M 9	11 38 12	26°28'41	5°II35	26° 7	7°17	13°30	5°30	8°38	7°41	29° 7	14°31	23° 3	22°57	5°20	2°35	M 9	
T 10	11 42 8	27°28'01	19°19	28° 7	7°49	14°17	5°23	8°45	7°43	29° 7	14°32	23°R 3	22°54	5°26	2°30	T 10	
W11	11 46 5	28°27'20	3°II21	0°Y 9	8°20	15° 4	5°16	8°51	7°46	29° 7	14°32	23° 3	22°51	5°33	2°25	W11	
T 12	11 50 1	29°26'36	17°38	2°11	8°50	15°51	5°10	8°58	7°48	29° 7	14°33	23° 3	22°48	5°40	2°21	T 12	
F 13	11 53 58	0°Y25'50	2°II 6	4°14	9°18	16°38	5° 3	9° 4	7°51	29° 8	14°33	23° 2	22°45	5°46	2°16	F 13	
S 14	11 57 54	1°25'03	16°38	6°17	9°44	17°25	4°57	9°11	7°53	29° 8	14°34	23° 1	22°41	5°53	2°11	S 14	
S 15	12 1 51	2°24'14	1°II 9	8°20	10° 8	18°11	4°50	9°18	7°55	29° 9	14°34	23° 0	22°38	6° 0	2° 6	S 15	
M16	12 5 47	3°23'23	15°34	10°24	10°31	18°58	4°44	9°25	7°58	29° 9	14°35	22°59	22°35	6° 7	2° 2	M16	
T 17	12 9 44	4°22'30	29°50	12°26	10°52	19°45	4°38	9°31	8° 0	29°10	14°35	22°D59	22°32	6°13	1°57	T 17	
W18	12 13 41	5°21'36	13°II35	14°29	11°11	20°32	4°32	9°38	8° 2	29°10	14°36	22°59	22°29	6°20	1°52	W18	
T 19	12 17 37	6°20'40	27°42	16°30	11°28	21°18	4°27	9°45	8° 5	29°11	14°37	22°59	22°26	6°27	1°47	T 19	
F 20	12 21 34	7°19'41	11°II18	18°29	11°43	22° 5	4°21	9°52	8° 7	29°11	14°37	23° 1	22°22	6°34	1°43	F 20	
S 21	12 25 30	8°18'41	24°40	20°27	11°56	22°51	4°15	9°59	8° 9	29°12	14°38	23° 2	22°19	6°40	1°38	S 21	
S 22	12 29 27	9°17'40	7°II48	22°23	12° 7	23°38	4°10	10° 6	8°11	29°13	14°39	23° 3	22°16	6°47	1°33	S 22	
M23	12 33 23	10°16'36	20°43	24°17	12°16	24°25	4° 5	10°13	8°13	29°13	14°39	23°R 3	22°13	6°54	1°28	M23	
T 24	12 37 20	11°15'30	3°Y25	26° 7	12°22	25°11	4° 0	10°20	8°15	29°14	14°40	23° 3	22°10	7° 0	1°24	T 24	
W25	12 41 16	12°14'22	15°56	27°55	12°26	25°58	3°55	10°28	8°17	29°15	14°41	23° 2	22° 7	7° 7	1°19	W25	
T 26	12 45 13	13°13'13	28°15	29°39	12°R28	26°44	3°50	10°35	8°19	29°15	14°41	22°59	22° 3	7°14	1°15	T 26	
F 27	12 49 10	14°12'01	10°II25	1°II19	12°27	27°30	3°46	10°42	8°21	29°16	14°42	22°56	22° 0	7°21	1°10	F 27	
S 28	12 53 6	15°10'47	22°26	2°55	12°24	28°17	3°41	10°49	8°23	29°17	14°43	22°53	21°57	7°27	1° 5	S 28	
S 29	12 57 3	16° 9'31	4°II21	4°27	12°19	29° 3	3°37	10°57	8°25	29°18	14°44	22°49	21°54	7°34	1° 1	S 29	
M30	13 0 59	17° 8'13	16°13	5°54	12°11	29°50	3°33	11° 4	8°26	29°19	14°45	22°46	21°51	7°41	0°57	M30	
T 31	13 4 56	18°Y 6'52	28°II 6	7°II16	12°II 1	0°Y36	3°II29	11°II11	8°II28	29°II20	14°II45	22°H43	21°H47	7°II47	0°II52	T 31	

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	decl lat	
S 1	4s33	23n58	4n43	9s28	2s 1	16n22	4n22	9s52	1s 4	10n32	1n28	12n 8	2s 9	19s 5	0s36	22n29	S 1
M 2	4 9	26 47	5 6	8 42	1 57	16 43	4 29	9 34	1 3	10 35	1 28	12 10	2 9	19 5	0 36	22 29	M 2
T 3	3 46	28 24	5 17	7 54	1 54	17 4	4 36	9 16	1 3	10 37	1 28	12 12	2 8	19 4	0 36	22 29	T 3
W 4	3 22	28 43	5 13	7 6	1 49	17 24	4 43	8 58	1 3	10 40	1 28	12 14	2 8	19 3	0 36	22 29	W 4
T 5	2 59	27 40	4 56	6 16	1 44	17 44	4 49	8 40	1 3	10 43	1 28	12 16	2 8	19 2	0 36	22 29	T 5
F 6	2 35	25 14	4 25	5 25	1 39	18 3	4 56	8 22	1 3	10 45	1 28	12 18	2 8	19 2	0 36	22 29	F 6
S 7	2 12	21 32	3 40	4 33	1 33	18 22	5 3	8 4	1 3	10 48	1 28	12 21	2 8	19 1	0 36	22 29	S 7
S 8	1 48	16 43	2 43	3 40	1 26	18 40	5 9	7 46	1 2	10 51	1 28	12 23	2 7	19 0	0 36	22 29	S 8
M 9	1 24	10 58	1 35	2 45	1 19	18 57	5 15	7 28	1 2	10 53	1 28	12 25	2 7	19 0	0 36	22 29	M 9
T 10	1 1	4 34	0 21	1 50	1 11	19 14	5 22	7 9	1 2	10 56	1 28	12 27	2 7	18 59	0 36	22 29	T 10
W11	0 37	2s12	0s57	0 54	1 3	19 30	5 28	6 51	1 2	10 58	1 28	12 30	2 7	18 59	0 36	22 29	W11
T 12	0 13	8 59	2 12	0n 2	0 54	19 45	5 34	6 33	1 2	11 0	1 28	12 32	2 7	18 58	0 37	22 29	T 12
F 13	0n10	15 22	3 20	1 0	0 45	20 0	5 40	6 14	1 1	11 3	1 27	12 34	2 7	18 57	0 37	22 29	F 13
S 14	0 34	20 56	4 15	1 58	0 36	20 14	5 46	5 56	1 1	11 5	1 27	12 36	2 6	18 57	0 37	22 29	S 14
S 15	0 58	25 15	4 54	2 56	0 26	20 27	5 51	5 37	1 1	11 7	1 27	12 39	2 6	18 56	0 37	22 29	S 15
M16	1 21	27 56	5 14	3 54	0 15	20 40	5 57	5 18	1 1	11 9	1 27	12 41	2 6	18 56	0 37	22 29	M16
T 17	1 45	28 45	5 14	4 52	0 4	20 51	6 2	5 0	1 0	11 12	1 27	12 43	2 6	18 55	0 37	22 29	T 17
W18	2 8	27 42	4 56	5 50	0n 7	21 2	6 7	4 41	1 0	11 14	1 27	12 46	2 6	18 54	0 37	22 30	W18
T 19	2 32	24 56	4 20	6 47	0 18	21 12	6 12	4 22	1 0	11 16	1 27	12 48	2 6	18 54	0 37	22 30	T 19
F 20	2 55	20 49	3 31	7 43	0 29	21 22	6 17	4 4	1 0	11 18	1 27	12 50	2 5	18 53	0 37	22 30	F 20
S 21	3 18	15 42	2 31	8 39	0 41	21 30	6 21	3 45	0 59	11 20	1 27	12 53	2 5	18 53	0 37	22 30	S 21
S 22	3 42	9 58	1 23	9 33	0 53	21 37	6 25	3 26	0 59	11 21	1 27	12 55	2 5	18 52	0 37	22 30	S 22
M23	4 5	3 53	0 13	10 26	1 4	21 43	6 29	3 7	0 59	11 23	1 27	12 57	2 5	18 52	0 37	22 30	M23
T 24	4 28	2n14	0n57	11 17	1 15	21 49	6 32	2 49	0 58	11 25	1 26	13 0	2 5	18 51	0 37	22 30	T 24
W25	4 51	8 10	2 3	12 7	1 26	21 53	6 35	2 30	0 58	11 27	1 26	13 2	2 5	18 51	0 37	22 30	W25
T 26	5 14	13 43	3 2	12 54	1 37	21 56	6 38	2 11	0 58	11 28	1 26	13 4	2 5	18 50	0 37	22 30	T 26
F 27	5 37	18 39	3 52	13 39	1 47	21 58	6 40	1 52	0 57	11 30	1 26	13 7	2 4	18 50	0 37	22 30	F 27
S 28	6 0	22 48	4 31	14 21	1 57	21 58	6 42	1 33	0 57	11 31	1 26	13 9	2 4	18 49	0 37	22 30	S 28
S 29	6 23	25 57	4 58	15 2	2 6	21 58	6 43	1 15	0 57	11 33	1 26	13 12	2 4	18 49	0 37	22 30	S 29
M30	6 45	27 58	5 12	15 39	2 15	21 56	6 44	0 56	0 56	11 34	1 26	13 14	2 4	18 49	0 37	22 30	M30
T 31	7n 8	28n42	5n12	16n14	2n23	21n53	6n44	0s37	0s56	11n35	1n25	13n16	2s 4	18s48	0s37	22n30	T 31

Julian Day Number = 2236484.5, Delta T = 07m35s

Ecliptic obliquity = 23°31'06, Nutation = 0°00'02, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°31'34, Lahiri = 15°38'34 Julian Calendar 1 March 1411 == Greg. Calendar 10 March 1411

ASTRODIENST EPHEMERIS for the year 1411

geocentric

APRIL 1411 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	13 8 52	19°5'30	10°3'3	8°34	11°R48	1°V22	3°R25	11°B19	8°A30	29°II21	14°II46	22°R41	21°K44	7°II54	0°R48	W 1
T 2	13 12 49	20° 4'05	22° 9	9°46	11°B32	2° 8	3°R22	11°26	8°31	29°22	14°47	22°D41	21°41	8° 1	0°A43	T 2
F 3	13 16 45	21° 2'38	4°Ω28	10°54	11°15	2°54	3°18	11°34	8°33	29°23	14°48	22°K42	21°38	8° 8	0°39	F 3
S 4	13 20 42	22° 1'08	17° 6	11°56	10°55	3°40	3°15	11°41	8°35	29°24	14°49	22°43	21°35	8°14	0°35	S 4
S 5	13 24 39	22°59'37	0°R6	12°52	10°32	4°26	3°12	11°49	8°36	29°25	14°50	22°45	21°32	8°21	0°31	S 5
M 6	13 28 35	23°58'03	13°31	13°44	10° 7	5°12	3° 9	11°56	8°38	29°26	14°51	22°46	21°28	8°28	0°27	M 6
T 7	13 32 32	24°56'27	27°22	14°29	9°41	5°58	3° 6	12° 4	8°39	29°27	14°52	22°R46	21°25	8°34	0°23	T 7
W 8	13 36 28	25°54'49	11°A38	15° 9	9°12	6°44	3° 4	12°11	8°40	29°28	14°53	22°45	21°22	8°41	0°19	W 8
T 9	13 40 25	26°53'10	26°15	15°43	8°41	7°30	3° 2	12°19	8°42	29°30	14°54	22°42	21°19	8°48	0°15	T 9
F 10	13 44 21	27°51'28	11°B8	16°12	8° 9	8°16	2°59	12°26	8°43	29°31	14°55	22°38	21°16	8°55	0°11	F 10
S 11	13 48 18	28°49'45	26° 7	16°35	7°35	9° 2	2°57	12°34	8°44	29°32	14°56	22°33	21°13	9° 1	0° 7	S 11
S 12	13 52 14	29°48'00	11°A3	16°52	7° 0	9°48	2°56	12°42	8°45	29°33	14°57	22°27	21° 9	9° 8	0° 3	S 12
M13	13 56 11	0°B46'13	25°49	17° 4	6°24	10°33	2°54	12°49	8°47	29°35	14°58	22°23	21° 6	9°15	29°R59	M13
T 14	14 0 8	1°44'25	10°B19	17°10	5°48	11°19	2°53	12°57	8°48	29°36	14°59	22°19	21° 3	9°22	29°56	T 14
W15	14 4 4	2°42'36	24°28	17°R11	5°10	12° 5	2°51	13° 5	8°49	29°37	15° 0	22°18	21° 0	9°28	29°53	W15
T 16	14 8 1	3°40'45	8°A14	17° 6	4°32	12°50	2°50	13°13	8°50	29°39	15° 1	22°D17	20°57	9°35	29°49	T 16
F 17	14 11 57	4°38'52	21°40	16°57	3°54	13°36	2°49	13°20	8°51	29°40	15° 2	22°18	20°53	9°42	29°46	F 17
S 18	14 15 54	5°36'58	4°K47	16°43	3°17	14°21	2°49	13°28	8°51	29°42	15° 3	22°20	20°50	9°48	29°43	S 18
S 19	14 19 50	6°35'03	17°37	16°24	2°39	15° 7	2°48	13°36	8°52	29°43	15° 4	22°R21	20°47	9°55	29°40	S 19
M20	14 23 47	7°33'06	0°V13	16° 1	2° 3	15°52	2°48	13°44	8°53	29°45	15° 6	22°20	20°44	10° 2	29°37	M20
T 21	14 27 43	8°31'08	12°37	15°35	1°27	16°37	2°D48	13°51	8°54	29°46	15° 7	22°18	20°41	10° 9	29°34	T 21
W22	14 31 40	9°29'08	24°52	15° 6	0°52	17°23	2°48	13°59	8°55	29°48	15° 8	22°14	20°38	10°15	29°31	W22
T 23	14 35 36	10°27'06	7°B0	14°34	0°19	18° 8	2°48	14° 7	8°55	29°49	15° 9	22° 8	20°34	10°22	29°28	T 23
F 24	14 39 33	11°25'03	19° 1	14° 0	29°V47	18°53	2°48	14°15	8°56	29°51	15°10	21°59	20°31	10°29	29°25	F 24
S 25	14 43 30	12°22'59	0°II57	13°25	29°16	19°38	2°49	14°22	8°56	29°52	15°12	21°50	20°28	10°35	29°23	S 25
S 26	14 47 26	13°20'53	12°50	12°49	28°48	20°23	2°50	14°30	8°57	29°54	15°13	21°40	20°25	10°42	29°20	S 26
M27	14 51 23	14°18'45	24°42	12°13	28°21	21° 9	2°50	14°38	8°57	29°56	15°14	21°31	20°22	10°49	29°18	M27
T 28	14 55 19	15°16'36	6°B34	11°38	27°57	21°54	2°52	14°46	8°58	29°57	15°15	21°23	20°18	10°56	29°15	T 28
W29	14 59 16	16°14'25	18°31	11° 3	27°35	22°38	2°53	14°54	8°58	29°59	15°17	21°17	20°15	11° 2	29°13	W29
T 30	15 3 12	17°B12'12	0°Ω35	10°B31	27°V14	23°V23	2°R54	15°B1	8°A58	0°B1	15°II18	21°K14	20°K12	11°II9	29°R11	T 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
W 1	7n30	28n 7	4n59	16n46	2n30	21n49	6n44	0s18	0s56	11n37	1n25	13n19	2s 4	18s48	0s37	22n30	1s 1	14n55	7s46	2s55	3s17	26n38	3s 1	2s57	
T 2	7 52	26 11	4 33	17 15	2 36	21 43	6 43	0n 0	0 55	11 38	1 25	13 21	2 4	18 47	0 37	22 30	1 1	14 56	7 46	2 55	3 18	26 39	2 59	2 56	
F 3	8 14	23 0	3 54	17 42	2 42	21 36	6 41	0 19	0 55	11 39	1 25	13 24	2 4	18 47	0 37	22 30	1 1	14 56	7 46	2 54	3 20	26 40	2 57	2 56	
S 4	8 36	18 40	3 3	18 6	2 46	21 27	6 39	0 38	0 55	11 40	1 25	13 26	2 3	18 47	0 37	22 30	1 1	14 56	7 46	2 54	3 21	26 42	2 54	2 55	
S 5	8 58	13 22	2 1	18 27	2 49	21 17	6 36	0 57	0 54	11 41	1 25	13 28	2 3	18 46	0 37	22 30	1 1	14 56	7 46	2 53	3 22	26 43	2 52	2 55	
M 6	9 20	7 17	0 50	18 44	2 52	21 6	6 32	1 15	0 54	11 42	1 24	13 31	2 3	18 46	0 37	22 30	1 1	14 57	7 45	2 53	3 24	26 44	2 50	2 54	
T 7	9 41	0 40	0s25	19 0	2 53	20 53	6 28	1 34	0 53	11 43	1 24	13 33	2 3	18 46	0 37	22 30	1 1	14 57	7 45	2 53	3 25	26 46	2 48	2 54	
W 8	10 3	6s10	1 41	19 12	2 53	20 39	6 23	1 52	0 53	11 43	1 24	13 36	2 3	18 45	0 37	22 31	1 1	14 57	7 45	2 53	3 26	26 47	2 46	2 53	
T 9	10 24	12 50	2 52	19 21	2 52	20 23	6 17	2 11	0 53	11 44	1 24	13 38	2 3	18 45	0 37	22 31	1 0	14 58	7 45	2 54	3 27	26 48	2 44	2 53	
F 10	10 45	18 54	3 53	19 27	2 50	20 6	6 11	2 29	0 52	11 45	1 24	13 40	2 3	18 45	0 37	22 31	1 0	14 58	7 45	2 56	3 29	26 49	2 42	2 52	
S 11	11 6	23 51	4 38	19 31	2 47	19 48	6 3	2 48	0 52	11 45	1 24	13 43	2 3	18 44	0 37	22 31	1 0	14 58	7 45	2 58	3 30	26 51	2 40	2 52	
S 12	11 26	27 12	5 4	19 32	2 43	19 29	5 55	3 6	0 51	11 46	1 23	13 45	2 3	18 44	0 38	22 31	1 0	14 58	7 44	3 0	3 31	26 52	2 38	2 51	
M13	11 47	28 37	5 10	19 29	2 37	19 9	5 47	3 25	0 51	11 46	1 23	13 48	2 3	18 44	0 38	22 31	1 0	14 59	7 44	3 2	3 32	26 53	2 36	2 51	
T 14	12 7	28 1	4 55	19 24	2 30	18 47	5 37	3 43	0 51	11 46	1 23	13 50	2 2	18 44	0 38	22 31	1 0	14 59	7 44	3 3	3 34	26 54	2 34	2 50	
W15	12 27	25 37	4 23	19 17	2 21	18 25	5 27	4 1	0 50	11 47	1 23	13 52	2 2	18 43	0 38	22 31	1 0	14 59	7 44	3 4	3 35	26 56	2 32	2 49	
T 16	12 47	21 44	3 36	19 6	2 12	18 2	5 16	4 19	0 50	11 47	1 23	13 55	2 2	18 43	0 38	22 31	1 0	14 59	7 44	3 4	3 36	26 57	2 31	2 49	
F 17	13 7	16 50	2 38	18 53	2 1	17 38	5 5	4 38	0 49	11 47	1 23	13 57	2 2	18 43	0 38	22 31	1 0	15 0	7 44	3 4	3 37	26 58	2 29	2 48	
S 18	13 26	11 15	1 34	18 38	1 49	17 14	4 53	4 56	0 49	11 47	1 22	13 59	2 2	18 43	0 38	22 31	1 0	15 0	7 43	3 3	3 39	26 59	2 27	2 48	
S 19	13 46	5 18	0 26	18 20	1 36	16 49	4 41	5 14	0 48	11 47	1 22	14 2	2 2	18 42	0 38	22 31	1 0	15 0	7 43	3 3	3 40	27 0	2 25	2 47	
M20	14 5	0n44	0n42	18 0	1 22	16 24	4 28	5 32	0 48	11 47	1 22	14 4	2 2	18 42	0 38	22 31	1 0	15 1	7 43	3 3	3 41	27 2	2 23	2 47	
T 21	14 23	6 39	1 47	17 38	1 7	15 59	4 15	5 50	0 47	11 47	1 22	14 7	2 2	18 42	0 38	22 31	1 0	15 1	7 43	3 4	3 42	27 3	2 22	2 46	
W22	14 42	12 14	2 46	17 15	0 52	15 34	4 1	6 7	0 47	11 47	1 22	14 9	2 2	18 42	0 38	22 31	1 0	15 1	7 43	3 5	3 44	27 4	2 20	2 46	
T 23	15 0	17 18	3 37	16 49	0 35	15 10	3 47	6 25	0 46	11 47	1 21	14 11	2 2	18 42	0 38	22 31	1 0	15 1	7 43	3 8	3 45	27 5	2 18	2 45	
F 24	15 18	21 39	4 17	16 23	0 19	14 45	3 33	6 43	0 46	11 46	1 21	14 14	2 2	18 42	0 38	22 31	1 0	15 2	7 42	3 11	3 46	27 6	2 17	2 44	
S 25	15 36	25 4	4 46	15 56	0 1	14 21	3 19	7 0	0 45	11 46	1 21	14 16	2 2	18 42	0 38	22 31	1 0	15 2	7 42	3 15	3 47	27 7	2 15	2 44	
S 26	15 54	27 24	5 2	15 29	0s16	13 57	3 5	7 18	0 45	11 45	1 21	14 18	2 2	18 41	0 38	22 31	1 0	15 2	7 42	3 19	3 49	27 9	2 14	2 43	
M27	16 11	28 29	5 5	15 1	0 33	13 34	2 50	7 35	0 44	11 45	1 21	14 21	2 2	18 41	0 38	22 31	1 0	15 2	7 42	3 23	3 50	27 10	2 12	2 43	
T 28	16 28	28 16	4 55	14 34	0 51	13 12	2 36	7 53	0 44	11 44	1 20	14 23	2 2	18 41	0 38	22 31	1 0	15 3	7 42	3 26	3 51	27 11	2 11	2 42	
W29	16 45	26 43	4 32	14 7	1 8	12 51	2 22	8 10	0 43	11 44	1 20	14 25	2 2	18 41	0 38	22 31	1 0	15 3	7 42	3 28	3 52	27 12	2 9	2 41	
T 30	17n 2	23n57	3n57	13n41	1s24	12n30	2n 7	8n27	0s43	11n43	1n20	14n28	2s 2	18s41	0s38	22n31	1s 0	15n 3	7s42	3s29	3s54	27n13	2s 8	2s41	

ASTRODIENST EPHEMERIS for the year 1411

geocentric

MAY 1411 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	15 7 9	18° 58'	12° 52'	10° 18'	26° 57'	24° 8'	2° 56'	15° 8'	8° 59'	0° 3'	15° 19'	21° 12'	20° 9'	11° 16'	29° 9'	F 1
S 2	15 11 6	19° 7'41"	25° 25'	9° 33'	26° 41'	24° 53'	2° 58'	15° 17'	8° 59'	0° 4'	15° 20'	21° 12'	20° 6'	11° 23'	29° 7'	S 2
S 3	15 15 2	20° 5'24"	8° 20'	9° 9'	26° 28'	25° 38'	3° 0'	15° 25'	8° 59'	0° 6'	15° 22'	21° 13'	20° 3'	11° 29'	29° 5'	S 3
M 4	15 18 59	21° 3'04"	21° 41'	8° 48'	26° 17'	26° 22'	3° 2'	15° 33'	8° 59'	0° 8'	15° 23'	21° 13'	19° 59'	11° 36'	29° 4'	M 4
T 5	15 22 55	22° 0'43"	5° 29'	8° 31'	26° 9'	27° 7'	3° 5'	15° 40'	8° 59'	0° 10'	15° 24'	21° 12'	19° 56'	11° 43'	29° 2'	T 5
W 6	15 26 52	22° 58'20"	19° 47'	8° 18'	26° 3'	27° 52'	3° 7'	15° 48'	8° 59'	0° 12'	15° 26'	21° 9'	19° 53'	11° 49'	29° 0'	W 6
T 7	15 30 48	23° 55'56"	4° 30'	8° 9'	26° 0'	28° 36'	3° 10'	15° 56'	8° 59'	0° 14'	15° 27'	21° 4'	19° 50'	11° 56'	28° 59'	T 7
F 8	15 34 45	24° 53'31"	19° 34'	8° D 4	25° D 59'	29° 21'	3° 13'	16° 4'	8° 59'	0° 15'	15° 28'	20° 57'	19° 47'	12° 3'	28° 58'	F 8
S 9	15 38 41	25° 51'04"	4° 49'	8° 5'	26° 0'	0° 8' 5'	3° 16'	16° 11'	8° 59'	0° 17'	15° 30'	20° 48'	19° 44'	12° 10'	28° 57'	S 9
S 10	15 42 38	26° 48'37"	20° 5'	8° 9'	26° 4'	0° 49'	3° 19'	16° 19'	8° 59'	0° 19'	15° 31'	20° 38'	19° 40'	12° 16'	28° 56'	S 10
M 11	15 46 35	27° 46'08"	5° 10'	8° 18'	26° 10'	1° 34'	3° 22'	16° 27'	8° 58'	0° 21'	15° 32'	20° 30'	19° 37'	12° 23'	28° 55'	M 11
T 12	15 50 31	28° 43'38"	19° 56'	8° 32'	26° 18'	2° 18'	3° 26'	16° 34'	8° 58'	0° 23'	15° 34'	20° 23'	19° 34'	12° 30'	28° 54'	T 12
W 13	15 54 28	29° 41'08"	4° 16'	8° 50'	26° 28'	3° 2'	3° 30'	16° 42'	8° 58'	0° 25'	15° 35'	20° 18'	19° 31'	12° 36'	28° 53'	W 13
T 14	15 58 24	0° 38'37"	18° 9'	9° 12'	26° 40'	3° 46'	3° 33'	16° 50'	8° 57'	0° 27'	15° 36'	20° 16'	19° 28'	12° 43'	28° 52'	T 14
F 15	16 2 21	1° 36'05"	1° 36'	9° 39'	26° 55'	4° 30'	3° 37'	16° 57'	8° 57'	0° 29'	15° 38'	20° D 15'	19° 24'	12° 50'	28° 52'	F 15
S 16	16 6 17	2° 33'32"	14° 38'	10° 10'	27° 11'	5° 14'	3° 42'	17° 5'	8° 56'	0° 31'	15° 39'	20° R 15'	19° 21'	12° 57'	28° 52'	S 16
S 17	16 10 14	3° 30'58"	27° 20'	10° 45'	27° 29'	5° 58'	3° 46'	17° 13'	8° 56'	0° 33'	15° 40'	20° 15'	19° 18'	13° 3'	28° 51'	S 17
M 18	16 14 10	4° 28'24"	9° 45'	11° 24'	27° 49'	6° 42'	3° 51'	17° 20'	8° 55'	0° 35'	15° 42'	20° 14'	19° 15'	13° 10'	28° 51'	M 18
T 19	16 18 7	5° 25'48"	21° 59'	12° 7'	28° 11'	7° 26'	3° 55'	17° 28'	8° 55'	0° 37'	15° 43'	20° 10'	19° 12'	13° 17'	28° D 51'	T 19
W 20	16 22 4	6° 23'13"	4° 3'	12° 54'	28° 35'	8° 10'	4° 0'	17° 35'	8° 54'	0° 39'	15° 45'	20° 3'	19° 9'	13° 24'	28° 51'	W 20
T 21	16 26 0	7° 20'36"	16° 2'	13° 44'	29° 0'	8° 54'	4° 5'	17° 43'	8° 53'	0° 41'	15° 46'	19° 54'	19° 5'	13° 30'	28° 51'	T 21
F 22	16 29 57	8° 17'59"	27° 56'	14° 39'	29° 27'	9° 37'	4° 10'	17° 50'	8° 53'	0° 43'	15° 47'	19° 42'	19° 2'	13° 37'	28° 51'	F 22
S 23	16 33 53	9° 15'21"	9° 49'	15° 37'	29° 55'	10° 21'	4° 15'	17° 58'	8° 52'	0° 46'	15° 49'	19° 29'	18° 59'	13° 44'	28° 52'	S 23
S 24	16 37 50	10° 12'42"	21° 41'	16° 38'	0° 8' 25'	11° 5'	4° 21'	18° 5'	8° 51'	0° 48'	15° 50'	19° 15'	18° 56'	13° 50'	28° 52'	S 24
M 25	16 41 46	11° 10'03"	3° 33'	17° 43'	0° 56'	11° 48'	4° 27'	18° 13'	8° 50'	0° 50'	15° 52'	19° 2'	18° 53'	13° 57'	28° 53'	M 25
T 26	16 45 43	12° 7'23"	15° 28'	18° 51'	1° 29'	12° 32'	4° 32'	18° 20'	8° 49'	0° 52'	15° 53'	18° 51'	18° 50'	14° 4'	28° 54'	T 26
W 27	16 49 39	13° 4'41"	27° 28'	20° 2'	2° 3'	13° 15'	4° 38'	18° 27'	8° 48'	0° 54'	15° 55'	18° 42'	18° 46'	14° 11'	28° 55'	W 27
T 28	16 53 36	14° 1'59"	9° 35'	21° 17'	2° 38'	13° 58'	4° 44'	18° 35'	8° 47'	0° 56'	15° 56'	18° 35'	18° 43'	14° 17'	28° 56'	T 28
F 29	16 57 33	14° 59'17"	21° 53'	22° 35'	3° 14'	14° 42'	4° 50'	18° 42'	8° 46'	0° 58'	15° 57'	18° 32'	18° 40'	14° 24'	28° 57'	F 29
S 30	17 1 29	15° 56'33"	4° 25'	23° 56'	3° 52'	15° 25'	4° 57'	18° 49'	8° 45'	1° 1'	15° 59'	18° 30'	18° 37'	14° 31'	28° 58'	S 30
S 31	17 5 26	16° 53'48"	17° 16'	25° 20'	4° 31'	16° 8'	5° 20'	18° 56'	8° 44'	1° 3'	16° 0'	18° 30'	18° 34'	14° 37'	28° 59'	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	decl	lat	decl	lat	decl	lat
F 1	17n18	20n 3	3n10	13n17	1s40	12n11	1n53	8n44	0s42	11n42	1n20	14n30	2s 2	18s41	0s38	22n31	1s 0	15n 3	7s42	3s30	3s55	27n14	2s 7	2s40							
S 2	17 34	15 11	2 13	12 54	1 56	11 52	1 39	9 1	0 42	11 41	1 20	14 32	2 1	18 41	0 38	22 31	1 0	15 4	7 41	3 30	3 56	27 15	2 5	2 40							
S 3	17 49	9 32	1 8	12 32	2 10	11 35	1 26	9 18	0 41	11 40	1 19	14 34	2 1	18 41	0 38	22 31	1 0	15 4	7 41	3 30	3 57	27 16	2 4	2 39							
M 4	18 5	3 16	0s 2	12 13	2 24	11 18	1 12	9 35	0 41	11 39	1 19	14 37	2 1	18 41	0 38	22 31	1 0	15 4	7 41	3 30	3 59	27 17	2 3	2 39							
T 5	18 20	3s20	1 15	11 55	2 36	11 3	0 59	9 51	0 40	11 38	1 19	14 39	2 1	18 41	0 38	22 32	1 0	15 4	7 41	3 30	4 0	27 19	2 2	2 38							
W 6	18 35	10 1	2 26	11 40	2 48	10 49	0 47	10 8	0 40	11 37	1 19	14 41	2 1	18 41	0 38	22 32	1 0	15 5	7 41	3 31	4 1	27 20	2 0	2 37							
T 7	18 49	16 20	3 29	11 27	2 58	10 36	0 34	10 24	0 39	11 36	1 19	14 43	2 1	18 41	0 38	22 32	1 0	15 5	7 41	3 33	4 2	27 21	1 59	2 37							
F 8	19 3	21 50	4 19	11 17	3 8	10 24	0 22	10 41	0 39	11 35	1 18	14 46	2 1	18 41	0 38	22 32	0 59	15 5	7 41	3 36	4 4	27 22	1 58	2 36							
S 9	19 17	25 56	4 51	11 9	3 16	10 14	0 10	10 57	0 38	11 33	1 18	14 48	2 1	18 41	0 39	22 32	0 59	15 5	7 41	3 40	4 5	27 23	1 57	2 35							
S 10	19 30	28 11	5 3	11 4	3 23	10 5	0s 1	11 13	0 37	11 32	1 18	14 50	2 1	18 42	0 39	22 32	0 59	15 6	7 41	3 43	4 6	27 24	1 56	2 35							
M11	19 44	28 18	4 53	11 1	3 30	9 56	0 12	11 29	0 37	11 31	1 18	14 52	2 1	18 42	0 39	22 32	0 59	15 6	7 40	3 47	4 7	27 25	1 55	2 34							
T 12	19 56	26 23	4 24	11 0	3 35	9 49	0 23	11 45	0 36	11 29	1 18	14 54	2 1	18 42	0 39	22 32	0 59	15 6	7 40	3 49	4 9	27 26	1 54	2 34							
W13	20 9	22 47	3 39	11 2	3 39	9 43	0 34	12 0	0 36	11 28	1 17	14 57	2 1	18 42	0 39	22 32	0 59	15 6	7 40	3 51	4 10	27 27	1 54	2 33							
T 14	20 21	18 0	2 42	11 6	3 42	9 38	0 44	12 16	0 35	11 26	1 17	14 59	2 1	18 42	0 39	22 32	0 59	15 7	7 40	3 52	4 11	27 28	1 53	2 32							
F 15	20 33	12 27	1 37	11 13	3 44	9 35	0 53	12 31	0 35	11 24	1 17	15 1	2 1	18 42	0 39	22 32	0 59	15 7	7 40	3 52	4 12	27 29	1 52	2 32							
S 16	20 44	6 32	0 30	11 21	3 45	9 32	1 2	12 47	0 34	11 23	1 17	15 3	2 1	18 42	0 39	22 32	0 59	15 7	7 40	3 52	4 14	27 30	1 51	2 31							
S 17	20 56	0 30	0n37	11 32	3 45	9 30	1 11	13 2	0 33	11 21	1 17	15 5	2 1	18 42	0 39	22 32	0 59	15 7	7 40	3 52	4 15	27 31	1 51	2 31							
M18	21 6	5n26	1 41	11 44	3 44	9 29	1 20	13 17	0 33	11 19	1 17	15 7	2 1	18 43	0 39	22 32	0 59	15 8	7 40	3 53	4 16	27 32	1 50	2 30							
T 19	21 17	11 3	2 39	11 59	3 43	9 30	1 28	13 32	0 32	11 17	1 16	15 9	2 1	18 43	0 39	22 32	0 59	15 8	7 40	3 54	4 17	27 33	1 49	2 29							
W20	21 27	16 12	3 30	12 15	3 40	9 31	1 36	13 47	0 32	11 15	1 16	15 11	2 1	18 43	0 39	22 32	0 59	15 8	7 40	3 57	4 19	27 34	1 49	2 29							
T 21	21 36	20 40	4 10	12 33	3 37	9 32	1 44	14 1	0 31	11 13	1 16	15 14	2 1	18 43	0 39	22 32	0 59	15 8	7 40	4 1	4 20	27 35	1 48	2 28							
F 22	21 46	24 17	4 39	12 53	3 33	9 35	1 51	14 16	0 30	11 11	1 16	15 16	2 1	18 44	0 39	22 32	0 59	15 8	7 40	4 5	4 21	27 36	1 48	2 28							
S 23	21 55	26 52	4 55	13 14	3 29	9 39	1 58	14 30	0 30	11 9	1 16	15 18	2 2	18 44	0 39	22 32	0 59	15 9	7 40	4 11	4 22	27 36	1 48	2 27							
S 24	22 3	28 14	4 59	13 37	3 23	9 43	2 4	14 44	0 29	11 7	1 15	15 20	2 2	18 44	0 39	22 32	0 59	15 9	7 39	4 16	4 24	27 37	1 47	2 26							
M25	22 11	28 18	4 50	14 1	3 17	9 48	2 10	14 58	0 29	11 5	1 15	15 22	2 2	18 44	0 39	22 32	0 59	15 9	7 39	4 21	4 25	27 38	1 47	2 26							
T 26	22 19	27 4	4 28	14 26	3 11	9 54	2 16	15 12	0 28	11 3	1 15	15 24	2 2	18 45	0 39	22 32	0 59	15 9	7 39	4 26	4 26	27 39	1 47	2 25							
W27	22 27	24 34	3 55	14 52	3 3	10 0	2 22	15 26	0 27	11 0	1 15	15 26	2 2	18 45	0 39	22 32	0 59	15 9	7 39	4 29	4 27	27 40	1 46	2 25							
T 28	22 34	20 58	3 10	15 19	2 56	10 7	2 27	15 40	0 27	10 58	1 15	15 28	2 2	18 45	0 39	22 32	0 59	15 10	7 39	4 32	4 29	27 41	1 46	2 24							
F 29	22 40	16 24	2 16	15 47	2 16	15 47	2 32	15 53	0 26	10 55	1 15	15 30	2 2	18 45	0 39	22 32	0 59	15 10	7 39	4 33	4 30	27 42	1 46	2 23							
S 30	22 46	11 4	1 14	16 16	2 38	10 23	2 37	16 6	0 25	10 53	1 14	15 32	2 2	18 46	0 39	22 32	0 59	15 10	7 39	4 34	4 31	27 43	1 46	2 23							
S 31	22n52	5n 9	0n 6	16n45	2s29	10n32	2s41	16n19	0s25	10n50	1n14	15n33	2s 2	18s46	0s39	22n32	0s59	15n10	7s39	4s34	4s32	27n44	1s46	2s22							

ASTRODIENST EPHEMERIS for the year 1411

geocentric

JUNE 1411 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	17 9 22	17 ^{II} 51'02	0 ^Δ 31	26 ⁸ 48	5 ⁸ 11	16 ⁸ 51	5 ¹⁰ 10	19 ⁸ 4	8°R43	1 ⁵ 5	16 ^{II} 2	18°R30	18 ⁸ 30	14 ^{II} 44	29 ¹⁰ 1	M 1	
T 2	17 13 19	18°48'16	14°12	28°18	5°51	17°34	5°16	19°11	8°41	1°7	16°3	18 ⁸ 29	18°27	14°51	29°2	T 2	
W 3	17 17 15	19°45'29	28°22	29°52	6°33	18°17	5°23	19°18	8°40	1°9	16°4	18°25	18°24	14°58	29°4	W 3	
T 4	17 21 12	20°42'41	12 ^{III} 59	1 ^{II} 28	7°16	19°0	5°30	19°25	8°39	1°11	16°6	18°19	18°21	15°4	29°5	T 4	
F 5	17 25 8	21°39'53	27°59	3°8	8°0	19°43	5°37	19°32	8°37	1°14	16°7	18°11	18°18	15°11	29°7	F 5	
S 6	17 29 5	22°37'05	13 ^Δ 15	4°50	8°44	20°26	5°45	19°39	8°36	1°16	16°9	18°1	18°15	15°18	29°9	S 6	
S 7	17 33 2	23°34'16	28°34	6°36	9°30	21°8	5°52	19°46	8°35	1°18	16°10	17°50	18°11	15°25	29°11	S 7	
M 8	17 36 58	24°31'26	13 ^Δ 47	8°24	10°16	21°51	5°59	19°53	8°33	1°20	16°11	17°40	18°8	15°31	29°14	M 8	
T 9	17 40 55	25°28'37	28°43	10°15	11°3	22°34	6°7	20°0	8°32	1°23	16°13	17°32	18°5	15°38	29°16	T 9	
W10	17 44 51	26°25'47	13 ^Δ 13	12°9	11°51	23°16	6°15	20°6	8°30	1°25	16°14	17°26	18°2	15°45	29°18	W10	
T 11	17 48 48	27°22'57	27°14	14°5	12°40	23°59	6°23	20°13	8°28	1°27	16°16	17°23	17°59	15°51	29°21	T 11	
F 12	17 52 44	28°20'08	10 ^{II} 47	16°4	13°29	24°41	6°31	20°20	8°27	1°29	16°17	17°22	17°56	15°58	29°23	F 12	
S 13	17 56 41	29°17'18	23°52	18°5	14°19	25°23	6°39	20°27	8°25	1°31	16°18	17°22	17°52	16°5	29°26	S 13	
S 14	18 0 38	0 ^Δ 14'29	6 ^Y 34	20°8	15°10	26°6	6°47	20°33	8°23	1°34	16°20	17°22	17°49	16°12	29°29	S 14	
M15	18 4 34	1°11'40	18°57	22°13	16°1	26°48	6°55	20°40	8°22	1°36	16°21	17°21	17°46	16°18	29°32	M15	
T 16	18 8 31	2°8'51	1 ⁸ 7	24°19	16°53	27°30	7°4	20°46	8°20	1°38	16°23	17°17	17°43	16°25	29°35	T 16	
W17	18 12 27	3°6'02	13°7	26°27	17°46	28°12	7°12	20°53	8°18	1°40	16°24	17°12	17°40	16°32	29°38	W17	
T 18	18 16 24	4°3'13	25°1	28°36	18°39	28°54	7°21	20°59	8°16	1°43	16°25	17°3	17°36	16°39	29°41	T 18	
F 19	18 20 20	5°0'25	6 ^{II} 52	0 ^Δ 45	19°33	29°36	7°29	21°6	8°15	1°45	16°27	16°52	17°33	16°45	29°45	F 19	
S 20	18 24 17	5°57'37	18°44	2°55	20°27	0 ^{II} 18	7°38	21°12	8°13	1°47	16°28	16°40	17°30	16°52	29°48	S 20	
S 21	18 28 13	6°54'49	0 ^Δ 37	5°5	21°22	1°0	7°47	21°18	8°11	1°49	16°29	16°27	17°27	16°59	29°52	S 21	
M22	18 32 10	7°52'02	12°34	7°15	22°17	1°42	7°56	21°25	8°9	1°52	16°31	16°15	17°24	17°5	29°55	M22	
T 23	18 36 7	8°49'14	24°35	9°24	23°13	2°24	8°6	21°31	8°7	1°54	16°32	16°5	17°21	17°12	29°59	T 23	
W24	18 40 3	9°46'27	6 ^Δ 43	11°33	24°9	3°5	8°15	21°37	8°5	1°56	16°33	15°56	17°17	17°19	0 ^Δ 3	W24	
T 25	18 44 0	10°43'40	18°58	13°41	25°6	3°47	8°24	21°43	8°3	1°58	16°35	15°50	17°14	17°26	0°7	T 25	
F 26	18 47 56	11°40'53	1 ¹⁰ 24	15°48	26°3	4°29	8°34	21°49	8°1	2°0	16°36	15°47	17°11	17°32	0°11	F 26	
S 27	18 51 53	12°38'05	14°2	17°54	27°0	5°10	8°43	21°55	7°59	2°3	16°37	15°D46	17°8	17°39	0°15	S 27	
S 28	18 55 49	13°35'18	26°57	19°59	27°58	5°51	8°53	22°1	7°57	2°5	16°39	15°47	17°5	17°46	0°19	S 28	
M29	18 59 46	14°32'31	10 ^Δ 11	22°2	28°57	6°33	9°3	22°6	7°54	2°7	16°40	15°R47	17°2	17°53	0°24	M29	
T 30	19 3 42	15°29'44	23 ^Δ 47	24°3	29°55	7 ^{II} 14	9°13	22°8	7°52	2°9	16°41	15°47	16°58	17°II59	0°28	T 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
M 1	22n58	1s10	1s 3	17n15	2s19	10n41	2s46	16n32	0s24	10n48	1n14	15n35	2s 2	18s46	0s39	22n32	0s59	15n10	7s39	4s34	4s34	27n44	1s46	2s22					
T 2	23 3	7 38	2 11	17 45	2 9	10 51	2 50	16 45	0 23	10 45	1 14	15 37	2 2	18 47	0 39	22 32	0 59	15 10	7 39	4 34	4 35	27 45	1 46	2 21					
W 3	23 7	13 56	3 14	18 15	1 59	11 1	2 53	16 58	0 23	10 43	1 14	15 39	2 2	18 47	0 39	22 32	0 59	15 11	7 39	4 36	4 36	27 46	1 46	2 20					
T 4	23 11	19 41	4 6	18 46	1 48	11 12	2 57	17 10	0 22	10 40	1 14	15 41	2 2	18 48	0 39	22 32	0 59	15 11	7 39	4 38	4 37	27 47	1 46	2 20					
F 5	23 15	24 21	4 42	19 16	1 37	11 23	3 0	17 23	0 21	10 37	1 13	15 43	2 2	18 48	0 39	22 32	0 59	15 11	7 39	4 41	4 39	27 48	1 47	2 19					
S 6	23 19	27 25	4 59	19 46	1 25	11 34	3 3	17 35	0 21	10 34	1 13	15 45	2 2	18 48	0 39	22 32	0 59	15 11	7 39	4 45	4 40	27 49	1 47	2 19					
S 7	23 22	28 26	4 55	20 16	1 14	11 46	3 6	17 47	0 20	10 31	1 13	15 46	2 2	18 49	0 40	22 32	0 59	15 11	7 39	4 49	4 41	27 49	1 47	2 18					
M 8	23 24	27 17	4 30	20 45	1 2	11 58	3 8	17 59	0 19	10 28	1 13	15 48	2 2	18 49	0 40	22 32	0 59	15 11	7 39	4 53	4 42	27 50	1 47	2 17					
T 9	23 26	24 11	3 47	21 14	0 51	12 11	3 10	18 10	0 19	10 25	1 13	15 50	2 2	18 50	0 40	22 32	0 59	15 12	7 39	4 57	4 44	27 51	1 48	2 17					
W10	23 28	19 37	2 50	21 41	0 39	12 23	3 12	18 22	0 18	10 22	1 13	15 52	2 2	18 50	0 40	22 32	0 59	15 12	7 39	4 59	4 45	27 52	1 48	2 16					
T 11	23 30	14 6	1 44	22 7	0 27	12 36	3 14	18 33	0 17	10 19	1 12	15 53	2 3	18 50	0 40	22 32	0 59	15 12	7 39	5 0	4 46	27 53	1 49	2 16					
F 12	23 30	8 5	0 35	22 32	0 16	12 49	3 16	18 44	0 17	10 16	1 12	15 55	2 3	18 51	0 40	22 32	0 59	15 12	7 39	5 0	4 47	27 53	1 49	2 15					
S 13	23 31	1 55	0n34	22 55	0 4	13 3	3 17	18 55	0 16	10 13	1 12	15 57	2 3	18 51	0 40	22 32	0 59	15 12	7 39	5 0	4 49	27 54	1 50	2 14					
S 14	23 31	4n 9	1 40	23 16	0n 7	13 16	3 19	19 6	0 15	10 10	1 12	15 58	2 3	18 52	0 40	22 32	0 59	15 12	7 39	5 0	4 50	27 55	1 50	2 14					
M15	23 31	9 54	2 39	23 35	0 18	13 30	3 20	19 16	0 15	10 7	1 12	16 0	2 3	18 52	0 40	22 32	0 59	15 13	7 39	5 1	4 51	27 56	1 51	2 13					
T 16	23 30	15 10	3 30	23 52	0 28	13 44	3 21	19 26	0 14	10 3	1 12	16 2	2 3	18 53	0 40	22 32	0 59	15 13	7 39	5 2	4 52	27 56	1 52	2 13					
W17	23 29	19 48	4 10	24 7	0 38	13 58	3 21	19 37	0 13	10 0	1 12	16 3	2 3	18 53	0 40	22 32	0 59	15 13	7 39	5 4	4 54	27 57	1 52	2 12					
T 18	23 27	23 36	4 39	24 19	0 48	14 12	3 22	19 47	0 13	9 57	1 11	16 5	2 3	18 54	0 40	22 32	0 59	15 13	7 39	5 8	4 55	27 58	1 53	2 12					
F 19	23 25	26 24	4 57	24 28	0 57	14 26	3 22	19 56	0 12	9 53	1 11	16 7	2 3	18 54	0 40	22 32	0 59	15 13	7 39	5 12	4 56	27 58	1 54	2 11					
S 20	23 23	28 2	5 1	24 34	1 5	14 40	3 23	20 6	0 11	9 50	1 11	16 8	2 3	18 55	0 40	22 32	0 59	15 13	7 39	5 17	4 57	27 59	1 55	2 10					
S 21	23 20	28 23	4 52	24 38	1 13	14 54	3 23	20 15	0 10	9 46	1 11	16 10	2 3	18 55	0 40	22 32	0 59	15 13	7 39	5 22	4 58	28 0	1 56	2 10					
M22	23 17	27 25	4 30	24 39	1 20	15 8	3 23	20 25	0 10	9 43	1 11	16 11	2 4	18 56	0 40	22 32	0 59	15 13	7 39	5 26	5 0	28 1	1 57	2 9					
T 23	23 13	25 9	3 57	24 37	1 26	15 22	3 22	20 34	0 9	9 39	1 11	16 13	2 4	18 56	0 40	22 32	0 59	15 14	7 39	5 31	5 1	28 1	1 58	2 9					
W24	23 9	21 45	3 12	24 32	1 32	15 36	3 22	20 42	0 8	9 36	1 11	16 14	2 4	18 57	0 40	22 32	0 59	15 14	7 39	5 34	5 2	28 2	1 59	2 8					
T 25	23 5	17 22	2 18	24 25	1 37	15 50	3 22	20 51	0 8	9 32	1 10	16 15	2 4	18 58	0 40	22 32	0 59	15 14	7 39	5 36	5 3	28 3	2 0	2 8					
F 26	23 0	12 12	1 16	24 15	1 41	16 4	3 21	21 0	0 7	9 28	1 10	16 17	2 4	18 58	0 40	22 32	0 59	15 14	7 39	5 37	5 5	28 3	2 1	2 7					
S 27	22 55	6 26	0 9	24 2	1 44	16 18	3 20	21 8	0 6	9 25	1 10	16 18	2 4	18 59	0 40	22 31	0 59	15 14	7 39	5 38	5 6	28 4	2 2	2 7					
S 28	22 49	0 19	0s59	23 47	1 47	16 32	3 19	21 16	0 5	9 21	1 10	16 20	2 4	18 59	0 40	22 31	0 59	15 14	7 39	5 38	5 7	28 5	2 3	2 6					
M29	22 43	5s59	2 6	23 29	1 48	16 46	3 18	21 24	0 5	9 17	1 10	16 21	2 4	19 0	0 40	22 31	0 59	15 14	7 39	5 37	5 8	28 5	2 5	2 5					
T 30	22n37	12s10	3s 8	23n10	1n49	17n 0	3s17	21n31	0s 4	9n13	1n10	16n22	2s 5	19s 0	0s40	22n31	0s59	15n14	7s39	5s37	5s10	28n 6	2s 6	2s 5					

Julian Day Number = 2236576.5, Delta T = 07m35s

Ecliptic obliquity = 23°31'05, Nutation = 0°00'03, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°31'46, Lahiri = 15°38'47 Julian Calendar 1 June 1411 == Greg. Calendar 10 June 1411

ASTRODIENST EPHEMERIS for the year 1411

geocentric

JULY 1411 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	19 7 39	16°26'58	7°47'	26°3'	0°11'54	7°11'55	9°23'	22°18'	7°R50	2°51'11	16°11'42	15°R45	16°11'55	18°11'6	0°11'33	W 1
T 2	19 11 36	17°24'11	22°11'	28°1'	1°54'	8°36'	9°33'	22°23'	7°48'	2°14'	16°44'	15°41'	16°52'	18°13'	0°37'	T 2
F 3	19 15 32	18°21'25	6°15'56	29°58'	2°53'	9°17'	9°43'	22°29'	7°46'	2°16'	16°45'	15°35'	16°49'	18°19'	0°42'	F 3
S 4	19 19 29	19°18'39	21°57'	1°53'	3°54'	9°58'	9°53'	22°34'	7°44'	2°18'	16°46'	15°28'	16°46'	18°26'	0°47'	S 4
S 5	19 23 25	20°15'54	7°3'	3°46'	4°54'	10°39'	10°3'	22°40'	7°41'	2°20'	16°47'	15°19'	16°42'	18°33'	0°52'	S 5
M 6	19 27 22	21°13'09	22°10'	5°37'	5°55'	11°20'	10°14'	22°45'	7°39'	2°22'	16°49'	15°12'	16°39'	18°40'	0°57'	M 6
T 7	19 31 18	22°10'25	7°1'	7°27'	6°56'	12°1'	10°24'	22°50'	7°37'	2°24'	16°50'	15°5'	16°36'	18°46'	1°2'	T 7
W 8	19 35 15	23°7'41	21°32'	9°14'	7°57'	12°42'	10°35'	22°55'	7°35'	2°26'	16°51'	15°1'	16°33'	18°53'	1°7'	W 8
T 9	19 39 11	24°4'59	5°37'	11°0'	8°59'	13°23'	10°45'	23°0'	7°32'	2°29'	16°52'	14°59'	16°30'	19°0'	1°12'	T 9
F 10	19 43 8	25°2'17	19°14'	12°45'	10°1'	14°3'	10°56'	23°5'	7°30'	2°31'	16°53'	14°D59	16°27'	19°7'	1°17'	F 10
S 11	19 47 5	25°59'36	2°25'	14°27'	11°3'	14°44'	11°7'	23°10'	7°28'	2°33'	16°54'	14°59'	16°23'	19°13'	1°23'	S 11
S 12	19 51 1	26°56'56	15°11'	16°8'	12°6'	15°24'	11°17'	23°15'	7°25'	2°35'	16°56'	15°1'	16°20'	19°20'	1°28'	S 12
M13	19 54 58	27°54'17	27°36'	17°47'	13°8'	16°5'	11°28'	23°20'	7°23'	2°37'	16°57'	15°R1	16°17'	19°27'	1°34'	M13
T14	19 58 54	28°51'39	9°47'	19°25'	14°11'	16°45'	11°39'	23°25'	7°21'	2°39'	16°58'	15°1'	16°14'	19°33'	1°39'	T14
W15	20 2 51	29°49'03	21°47'	21°0'	15°15'	17°25'	11°50'	23°29'	7°18'	2°41'	16°59'	14°58'	16°11'	19°40'	1°45'	W15
T16	20 6 47	0°46'28	3°40'	22°34'	16°18'	18°5'	12°1'	23°34'	7°16'	2°43'	17°0'	14°54'	16°8'	19°47'	1°51'	T16
F17	20 10 44	1°43'54	15°32'	24°7'	17°22'	18°46'	12°13'	23°38'	7°13'	2°45'	17°1'	14°48'	16°4'	19°54'	1°57'	F17
S18	20 14 40	2°41'21	27°25'	25°37'	18°26'	19°26'	12°24'	23°43'	7°11'	2°47'	17°2'	14°41'	16°1'	20°0'	2°3'	S18
S19	20 18 37	3°38'49	9°22'	27°6'	19°30'	20°6'	12°35'	23°47'	7°9'	2°49'	17°3'	14°33'	15°58'	20°7'	2°9'	S19
M20	20 22 34	4°36'18	21°25'	28°33'	20°35'	20°46'	12°47'	23°51'	7°6'	2°51'	17°4'	14°26'	15°55'	20°14'	2°15'	M20
T21	20 26 30	5°33'48	3°26'	29°58'	21°40'	21°26'	12°58'	23°55'	7°4'	2°53'	17°5'	14°19'	15°52'	20°20'	2°21'	T21
W22	20 30 27	6°31'20	15°56'	1°22'	22°45'	22°5'	13°10'	23°59'	7°1'	2°55'	17°6'	14°15'	15°48'	20°27'	2°27'	W22
T23	20 34 23	7°28'52	28°26'	2°43'	23°50'	22°45'	13°21'	24°3'	6°59'	2°57'	17°7'	14°12'	15°45'	20°34'	2°34'	T23
F24	20 38 20	8°26'26	11°27'	4°3'	24°55'	23°25'	13°33'	24°7'	6°57'	2°59'	17°8'	14°D10	15°42'	20°41'	2°40'	F24
S25	20 42 16	9°24'00	24°0'	5°21'	26°1'	24°4'	13°45'	24°11'	6°54'	3°1'	17°9'	14°11'	15°39'	20°47'	2°47'	S25
S26	20 46 13	10°21'36	7°47'	6°37'	27°6'	24°44'	13°56'	24°15'	6°52'	3°2'	17°10'	14°12'	15°36'	20°54'	2°53'	S26
M27	20 50 9	11°19'12	20°29'	7°51'	28°12'	25°23'	14°8'	24°18'	6°49'	3°4'	17°11'	14°14'	15°33'	21°1'	3°0'	M27
T28	20 54 6	12°16'49	4°11'	9°2'	29°18'	26°3'	14°20'	24°22'	6°47'	3°6'	17°12'	14°15'	15°29'	21°8'	3°6'	T28
W29	20 58 3	13°14'28	18°4'	10°12'	0°24'	26°42'	14°32'	24°25'	6°45'	3°8'	17°13'	14°R15	15°26'	21°14'	3°13'	W29
T30	21 1 59	14°12'07	2°17'	11°19'	1°31'	27°21'	14°44'	24°28'	6°42'	3°10'	17°14'	14°14'	15°23'	21°21'	3°20'	T30
F31	21 5 56	15°9'48	16°45'	12°24'	2°38'	28°11'0	14°56'	24°31'	6°40'	3°11'	17°15'	14°11'	15°20'	21°28'	3°27'	F31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	22n30	17s57	4s 1	22n48	1n50	17n13	3s16	21n39	0s 3	9n 9	1n10	16n24	2s 5	19s 1	0s40	22n31
T 2	22 23	22 53	4 40	22 25	1 50	17 26	3 14	21 46	0 3	9 5	1 10	16 25	2 5	19 1	0 40	22 31
F 3	22 15	26 29	5 1	22 0	1 49	17 39	3 13	21 53	0 2	9 2	1 10	16 26	2 5	19 2	0 40	22 31
S 4	22 7	28 19	5 3	21 33	1 47	17 52	3 11	22 0	0 1	8 58	1 9	16 28	2 5	19 3	0 40	22 31
S 5	21 59	28 3	4 43	21 5	1 45	18 5	3 9	22 7	0 0	8 54	1 9	16 29	2 5	19 3	0 40	22 31
M 6	21 50	25 42	4 4	20 35	1 43	18 17	3 7	22 13	0n 0	8 50	1 9	16 30	2 5	19 4	0 40	22 31
T 7	21 41	21 37	3 9	20 4	1 39	18 30	3 5	22 20	0 1	8 45	1 9	16 31	2 5	19 4	0 40	22 31
W 8	21 32	16 18	2 2	19 32	1 36	18 42	3 3	22 26	0 2	8 41	1 9	16 32	2 6	19 5	0 40	22 31
T 9	21 22	10 15	0 50	18 59	1 31	18 53	3 1	22 31	0 3	8 37	1 9	16 33	2 6	19 6	0 40	22 31
F 10	21 12	3 55	0n23	18 25	1 27	19 5	2 59	22 37	0 3	8 33	1 9	16 35	2 6	19 6	0 40	22 31
S 11	21 1	2n23	1 33	17 51	1 21	19 16	2 56	22 43	0 4	8 29	1 9	16 36	2 6	19 7	0 40	22 31
S 12	20 50	8 23	2 35	17 15	1 16	19 26	2 54	22 48	0 5	8 25	1 9	16 37	2 6	19 8	0 40	22 31
M13	20 39	13 54	3 29	16 40	1 10	19 37	2 51	22 53	0 6	8 20	1 8	16 38	2 6	19 8	0 40	22 31
T14	20 27	18 47	4 12	16 3	1 3	19 47	2 49	22 58	0 7	8 16	1 8	16 39	2 6	19 9	0 40	22 31
W15	20 15	22 50	4 44	15 26	0 57	19 57	2 46	23 3	0 7	8 12	1 8	16 40	2 7	19 9	0 40	22 31
T16	20 3	25 54	5 2	14 49	0 50	20 6	2 43	23 7	0 8	8 7	1 8	16 41	2 7	19 10	0 40	22 31
F17	19 50	27 50	5 8	14 11	0 42	20 15	2 41	23 11	0 9	8 3	1 8	16 42	2 7	19 11	0 40	22 31
S18	19 37	28 30	5 1	13 34	0 34	20 24	2 38	23 15	0 10	7 59	1 8	16 43	2 7	19 11	0 40	22 31
S19	19 24	27 51	4 40	12 56	0 26	20 32	2 35	23 19	0 10	7 54	1 8	16 44	2 7	19 12	0 40	22 31
M20	19 10	25 52	4 7	12 18	0 18	20 40	2 32	23 23	0 11	7 50	1 8	16 44	2 7	19 12	0 40	22 31
T21	18 57	22 41	3 22	11 40	0 9	20 47	2 28	23 26	0 12	7 45	1 8	16 45	2 8	19 13	0 40	22 30
W22	18 42	18 27	2 27	11 2	0 0	20 54	2 25	23 30	0 13	7 41	1 8	16 46	2 8	19 14	0 40	22 30
T23	18 28	13 23	1 25	10 24	0s 9	21 0	2 22	23 33	0 14	7 36	1 8	16 47	2 8	19 14	0 40	22 30
F24	18 13	7 41	0 17	9 47	0 18	21 6	2 19	23 36	0 14	7 32	1 8	16 48	2 8	19 15	0 40	22 30
S25	17 58	1 34	0s53	9 9	0 27	21 12	2 16	23 38	0 15	7 27	1 7	16 48	2 8	19 16	0 40	22 30
S26	17 42	4s42	2 2	8 32	0 37	21 17	2 12	23 41	0 16	7 23	1 7	16 49	2 8	19 16	0 40	22 30
M27	17 26	10 53	3 5	7 56	0 47	21 22	2 9	23 43	0 17	7 18	1 7	16 50	2 9	19 17	0 40	22 30
T28	17 10	16 41	3 59	7 20	0 57	21 26	2 5	23 45	0 18	7 13	1 7	16 50	2 9	19 17	0 40	22 30
W29	16 54	21 45	4 41	6 44	1 7	21 29	2 2	23 47	0 18	7 9	1 7	16 51	2 9	19 18	0 40	22 30
T30	16 37	25 41	5 6	6 9	1 17	21 32	1 58	23 49	0 19	7 4	1 7	16 52	2 9	19 19	0 40	22 30
F31	16n20	28s 2	5s12	5n35	1s27	21n35	1s55	23n50	0n20	6n59	1n 7	16n52	2s 9	19s19	0s40	22n30

Julian Day Number = 2236606.5, Delta T = 07m35s

Ecliptic obliquity = 23°31'05, Nutation = 0°00'04, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°31'50, Lahiri = 15°38'51 Julian Calendar 1 July 1411 == Greg. Calendar 10 July 1411

ASTRODIENST EPHEMERIS for the year 1411

geocentric

AUGUST 1411 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	21 9 52	16♌ 7'30	1♋24	13♏27	3♎44	28♏39	15♏ 8	24♏35	6°R38	3♎13	17♏15	14°R 8	15♏17	21♏34	3♎34	S 1	
S 2	21 13 49	17° 5'12	16° 8	14°27	4°51	29°18	15°20	24°38	6♎35	3°15	17°16	14♏ 4	15°14	21°41	3°41	S 2	
M 3	21 17 45	18° 2'56	0♎51	15°24	5°58	29°57	15°32	24°41	6°33	3°17	17°17	14° 1	15°10	21°48	3°48	M 3	
T 4	21 21 42	19° 0'42	15°24	16°18	7° 6	0♎36	15°44	24°43	6°31	3°18	17°18	13°58	15° 7	21°55	3°55	T 4	
W 5	21 25 39	19°58'28	29°43	17°10	8°13	1°15	15°57	24°46	6°28	3°20	17°18	13°56	15° 4	22° 1	4° 2	W 5	
T 6	21 29 35	20°56'16	13♏41	17°58	9°21	1°54	16° 9	24°49	6°26	3°22	17°19	13°D55	15° 1	22° 8	4° 9	T 6	
F 7	21 33 32	21°54'06	27°16	18°43	10°29	2°32	16°21	24°51	6°24	3°23	17°20	13°56	14°58	22°15	4°17	F 7	
S 8	21 37 28	22°51'57	10♏27	19°24	11°36	3°11	16°33	24°54	6°21	3°25	17°20	13°57	14°54	22°21	4°24	S 8	
S 9	21 41 25	23°49'50	23°16	20° 1	12°45	3°49	16°46	24°56	6°19	3°26	17°21	13°59	14°51	22°28	4°31	S 9	
M10	21 45 21	24°47'45	5♏45	20°35	13°53	4°28	16°58	24°58	6°17	3°28	17°22	14° 0	14°48	22°35	4°39	M10	
T 11	21 49 18	25°45'42	17°58	21° 4	15° 1	5° 6	17°11	25° 0	6°15	3°30	17°22	14° 1	14°45	22°42	4°46	T 11	
W12	21 53 14	26°43'41	29°59	21°29	16°10	5°44	17°23	25° 2	6°12	3°31	17°23	14°R 1	14°42	22°48	4°54	W12	
T 13	21 57 11	27°41'41	11♏55	21°49	17°18	6°22	17°36	25° 4	6°10	3°33	17°24	14° 0	14°39	22°55	5° 1	T 13	
F 14	22 1 8	28°39'44	23°47	22° 4	18°27	7° 1	17°48	25° 6	6° 8	3°34	17°24	13°59	14°35	23° 2	5° 9	F 14	
S 15	22 5 4	29°37'48	5♎42	22°13	19°36	7°39	18° 1	25° 8	6° 6	3°35	17°25	13°57	14°32	23° 9	5°17	S 15	
S 16	22 9 1	0♏35'55	17°42	22°R17	20°45	8°16	18°14	25° 9	6° 4	3°37	17°25	13°55	14°29	23°15	5°25	S 16	
M17	22 12 57	1°34'03	29°51	22°15	21°54	8°54	18°26	25°11	6° 2	3°38	17°26	13°53	14°26	23°22	5°32	M17	
T 18	22 16 54	2°32'13	12♌12	22° 7	23° 4	9°32	18°39	25°12	6° 0	3°40	17°26	13°52	14°23	23°29	5°40	T 18	
W19	22 20 50	3°30'25	24°46	21°53	24°13	10°10	18°52	25°14	5°58	3°41	17°27	13°51	14°20	23°35	5°48	W19	
T 20	22 24 47	4°28'39	7♏34	21°32	25°23	10°47	19° 4	25°15	5°56	3°42	17°27	13°D50	14°16	23°42	5°56	T 20	
F 21	22 28 43	5°26'54	20°36	21° 5	26°33	11°25	19°17	25°16	5°54	3°43	17°28	13°50	14°13	23°49	6° 4	F 21	
S 22	22 32 40	6°25'11	3♎52	20°31	27°42	12° 2	19°30	25°17	5°52	3°45	17°28	13°51	14°10	23°56	6°12	S 22	
S 23	22 36 36	7°23'30	17°21	19°52	28°52	12°40	19°43	25°18	5°50	3°46	17°29	13°51	14° 7	24° 2	6°20	S 23	
M24	22 40 33	8°21'50	1♌ 2	19° 7	0♌ 3	13°17	19°56	25°18	5°48	3°47	17°29	13°52	14° 4	24° 9	6°28	M24	
T 25	22 44 30	9°20'12	14°55	18°16	1°13	13°54	20° 8	25°19	5°46	3°48	17°29	13°52	14° 0	24°16	6°36	T 25	
W26	22 48 26	10°18'36	28°57	17°21	2°23	14°31	20°21	25°19	5°44	3°49	17°30	13°52	13°57	24°22	6°44	W26	
T 27	22 52 23	11°17'01	13♏ 6	16°22	3°33	15° 8	20°34	25°20	5°42	3°50	17°30	13°R53	13°54	24°29	6°52	T 27	
F 28	22 56 19	12°15'28	27°22	15°21	4°44	15°45	20°47	25°20	5°41	3°51	17°30	13°52	13°51	24°36	7° 1	F 28	
S 29	23 0 16	13°13'57	11♎40	14°19	5°55	16°22	21° 0	25°20	5°39	3°53	17°30	13°52	13°48	24°43	7° 9	S 29	
S 30	23 4 12	14°12'27	25°59	13°17	7° 5	16°59	21°13	25°R20	5°37	3°54	17°31	13°D52	13°45	24°49	7°17	S 30	
M31	23 8 9	15♏10'59	10♎13	12♏16	8♌16	17♎35	21♏26	25♏20	5♎35	3♎55	17♏31	13♏52	13♏41	24♏56	7♎26	M31	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	16n 3	28s29	4s59	5n 1	1s38	21n37	1s51	23n51	0n21	6n54	1n 7	16n53	2s10	19s20	0s40	22n30	0s59
S 2	15 46	26 56	4 25	4 29	1 48	21 38	1 47	23 53	0 22	6 50	1 7	16 54	2 10	19 20	0 40	22 30	0 59
M 3	15 18	23 31	3 35	3 57	1 59	21 39	1 44	23 53	0 22	6 45	1 7	16 54	2 10	19 21	0 40	22 30	0 59
T 4	15 10	18 40	2 30	3 26	2 9	21 40	1 40	23 54	0 23	6 40	1 7	16 55	2 10	19 21	0 40	22 30	0 59
W 5	14 52	12 49	1 17	2 57	2 19	21 39	1 36	23 55	0 24	6 35	1 7	16 55	2 10	19 22	0 40	22 30	0 59
T 6	14 34	6 28	0 1	2 29	2 30	21 39	1 33	23 55	0 25	6 30	1 7	16 55	2 10	19 23	0 40	22 30	0 59
F 7	14 15	0n 1	1n13	2 2	2 40	21 37	1 29	23 55	0 26	6 26	1 7	16 56	2 11	19 23	0 40	22 30	0 59
S 8	13 56	6 18	2 21	1 32	2 50	21 36	1 25	23 55	0 26	6 21	1 7	16 56	2 11	19 24	0 40	22 30	0 59
S 9	13 37	12 9	3 20	1 16	3 0	21 33	1 21	23 55	0 27	6 16	1 7	16 57	2 11	19 24	0 40	22 29	0 59
M10	13 18	17 22	4 8	0 50	3 10	21 30	1 18	23 55	0 28	6 11	1 7	16 57	2 11	19 25	0 40	22 29	0 59
T 11	12 58	21 46	4 43	0 30	3 19	21 27	1 14	23 54	0 29	6 6	1 7	16 57	2 11	19 25	0 40	22 29	0 59
W12	12 39	25 12	5 6	0 12	3 28	21 23	1 10	23 53	0 30	6 1	1 7	16 58	2 12	19 26	0 40	22 29	0 59
T 13	12 19	27 30	5 15	0s 4	3 37	21 18	1 6	23 53	0 31	5 56	1 7	16 58	2 12	19 27	0 40	22 29	0 59
F 14	11 59	28 33	5 11	0 17	3 45	21 13	1 3	23 51	0 32	5 51	1 6	16 58	2 12	19 27	0 40	22 29	0 59
S 15	11 38	28 17	4 53	0 27	3 52	21 7	0 59	23 50	0 32	5 46	1 6	16 58	2 12	19 28	0 40	22 29	0 59
S 16	11 18	26 41	4 22	0 35	3 59	21 0	0 55	23 49	0 33	5 41	1 6	16 59	2 12	19 28	0 40	22 29	0 59
M17	10 57	23 49	3 40	0 40	4 5	20 53	0 51	23 47	0 34	5 36	1 6	16 59	2 13	19 29	0 40	22 29	0 59
T 18	10 36	19 51	2 46	0 41	4 10	20 46	0 47	23 45	0 35	5 31	1 6	16 59	2 13	19 29	0 40	22 29	0 59
W19	10 15	14 56	1 44	0 40	4 14	20 37	0 44	23 43	0 36	5 26	1 6	16 59	2 13	19 30	0 40	22 29	0 59
T 20	9 54	9 18	0 35	0 34	4 17	20 29	0 40	23 41	0 37	5 21	1 6	16 59	2 13	19 30	0 40	22 29	0 59
F 21	9 33	3 10	0s37	0 25	4 18	20 19	0 36	23 39	0 38	5 16	1 6	16 59	2 13	19 31	0 40	22 29	0 59
S 22	9 11	3s12	1 49	0 12	4 18	20 9	0 32	23 37	0 38	5 11	1 6	16 59	2 13	19 31	0 40	22 29	0 59
S 23	8 49	9 32	2 55	0n 6	4 17	19 59	0 29	23 34	0 39	5 6	1 6	16 59	2 14	19 32	0 40	22 29	0 59
M24	8 28	15 30	3 53	0 26	4 13	19 48	0 25	23 31	0 40	5 1	1 6	16 59	2 14	19 32	0 40	22 29	0 59
T 25	8 6	20 47	4 37	0 51	4 8	19 36	0 21	23 28	0 41	4 56	1 6	16 59	2 14	19 32	0 40	22 29	0 59
W26	7 44	24 58	5 6	1 19	4 1	19 24	0 18	23 25	0 42	4 51	1 6	16 59	2 14	19 33	0 40	22 29	0 59
T 27	7 21	27 41	5 17	1 50	3 52	19 12	0 14	23 22	0 43	4 46	1 6	16 59	2 14	19 33	0 40	22 28	0 59
F 28	6 59	28 38	5 8	2 24	3 41	18 58	0 11	23 18	0 44	4 41	1 6	16 59	2 15	19 34	0 40	22 28	0 59
S 29	6 37	27 39	4 40	3 0	3 28	18 45	0 7	23 15	0 45	4 36	1 6	16 59	2 15	19 34	0 40	22 28	0 59
S 30	6 14	24 52	3 55	3 37	3 13	18 30	0 4	23 11	0 45	4 30	1 6	16 59	2 15	19 35	0 40	22 28	0 59
M31	5n51	20s34	2s56	4n15	2s57	18n15	0s 0	23n 7	0n46	4n25	1n 6	16n58	2s15	19s35	0s40	22n28	0s59

Julian Day Number = 2236637.5, Delta T = 07m34s

Ecliptic obliquity = 23°31'05, Nutation = 0°00'05, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°31'55, Lahiri = 15°38'55 Julian Calendar 1 Aug. 1411 == Greg. Calendar 10 Aug. 1411

ASTRODIENST EPHEMERIS for the year 1411

geocentric

SEPTEMBER 1411 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	23 12 5	16 ¹⁷ 9'32	24 ²² 20	11 ¹⁹ R19	9 ¹² 27	18 ¹² 12	21 ¹⁷ 39	25 ¹⁹ R20	5 ¹⁹ R34	3 ⁵⁵ 55	17 ¹¹ 31	13 ¹³ 53	13 ¹³ 38	25 ¹¹ 3	7 ¹² 34	T 1
W 2	23 16 2	17 ¹⁷ 8'08	8 ¹¹ 15	10 ¹⁷ 27	10 ¹⁰ 38	18 ¹⁸ 48	21 ²¹ 52	25 ¹⁸ 20	5 ³² 32	3 ⁵⁶ 56	17 ¹⁷ 31	13 ¹³ R53	13 ¹³ 35	25 ¹⁰ 10	7 ¹² 42	W 2
T 3	23 19 59	18 ¹⁸ 6'45	21 ²¹ 55	9 ⁹ 40	11 ¹¹ 49	19 ¹⁹ 25	22 ²² 5	25 ²⁵ 20	5 ³¹ 31	3 ⁵⁷ 57	17 ¹⁷ 31	13 ¹³ 53	13 ¹³ 32	25 ¹⁶ 16	7 ¹² 51	T 3
F 4	23 23 55	19 ¹⁹ 5'24	5 ⁵ 18	9 ⁹ 1	13 ¹³ 1	20 ²⁰ 1	22 ²² 18	25 ²⁵ 19	5 ²⁹ 29	3 ⁵⁸ 58	17 ¹⁷ 32	13 ¹³ 52	13 ¹³ 29	25 ²³ 23	7 ¹² 59	F 4
S 5	23 27 52	20 ²⁰ 4'05	18 ¹⁸ 23	8 ⁸ 30	14 ¹⁴ 12	20 ²⁰ 37	22 ²² 31	25 ²⁵ 19	5 ²⁸ 28	3 ⁵⁹ 59	17 ¹⁷ 32	13 ¹³ 52	13 ¹³ 26	25 ³⁰ 30	8 ¹³ 7	S 5
S 6	23 31 48	21 ²¹ 2'48	1 ¹ 9	8 ⁸ 8	15 ¹⁵ 23	21 ²¹ 13	22 ²² 44	25 ²⁵ 18	5 ²⁶ 26	4 ⁰ 0	17 ¹⁷ 32	13 ¹³ 51	13 ¹³ 22	25 ³⁶ 36	8 ¹⁶ 16	S 6
M 7	23 35 45	22 ²² 1'34	13 ¹³ 37	7 ⁷ 56	16 ¹⁶ 35	21 ²¹ 49	22 ²² 57	25 ²⁵ 17	5 ²⁵ 25	4 ⁰ 0	17 ¹⁷ 32	13 ¹³ 50	13 ¹³ 19	25 ⁴³ 43	8 ²⁴ 24	M 7
T 8	23 39 41	23 ²³ 0'22	25 ²⁵ 52	7 ⁷ D54	17 ¹⁷ 47	22 ²² 25	23 ²³ 10	25 ²⁵ 16	5 ²³ 23	4 ¹ 1	17 ¹⁷ 32	13 ¹³ 49	13 ¹³ 16	25 ⁵⁰ 50	8 ³³ 33	T 8
W 9	23 43 38	23 ²³ 59'12	7 ⁷ 11	8 ⁸ 1	18 ¹⁸ 58	23 ²³ 1	23 ²³ 23	25 ²⁵ 15	5 ²² 22	4 ² 2	17 ¹⁷ R32	13 ¹³ 48	13 ¹³ 13	25 ⁵⁷ 57	8 ⁴¹ 41	W 9
T 10	23 47 34	24 ²⁴ 58'05	19 ¹⁹ 50	8 ⁸ 19	20 ²⁰ 10	23 ²³ 37	23 ²³ 36	25 ²⁵ 14	5 ²¹ 21	4 ³ 3	17 ¹⁷ 32	13 ¹³ D48	13 ¹³ 10	26 ² 3	8 ⁵⁰ 50	T 10
F 11	23 51 31	25 ²⁵ 56'59	1 ¹ 43	8 ⁸ 46	21 ²¹ 22	24 ²⁴ 12	23 ²³ 49	25 ²⁵ 13	5 ¹⁹ 19	4 ³ 3	17 ¹⁷ 32	13 ¹³ 48	13 ¹³ 6	26 ¹⁰ 10	8 ⁵⁹ 59	F 11
S 12	23 55 28	26 ²⁶ 55'57	13 ¹³ 37	9 ⁹ 23	22 ²² 34	24 ²⁴ 48	24 ²⁴ 2	25 ²⁵ 12	5 ¹⁸ 18	4 ⁴ 4	17 ¹⁷ 32	13 ¹³ 48	13 ¹³ 3	26 ¹⁷ 17	9 ⁷ 7	S 12
S 13	23 59 24	27 ²⁷ 54'56	25 ²⁵ 39	10 ¹⁰ 8	23 ²³ 46	25 ²⁵ 23	24 ²⁴ 15	25 ²⁵ 10	5 ¹⁷ 17	4 ⁴ 4	17 ¹⁷ 32	13 ¹³ 49	13 ¹³ 0	26 ²³ 23	9 ¹⁶ 16	S 13
M14	0 3 21	28 ²⁸ 53'58	7 ⁷ 11	11 ¹¹ 2	24 ²⁴ 59	25 ²⁵ 58	24 ²⁴ 28	25 ²⁵ 9	5 ¹⁶ 16	4 ⁵ 5	17 ¹⁷ 32	13 ¹³ 51	12 ¹² 57	26 ³⁰ 30	9 ²⁴ 24	M14
T 15	0 7 17	29 ²⁹ 53'01	20 ²⁰ 17	12 ¹² 3	26 ²⁶ 11	26 ²⁶ 33	24 ²⁴ 41	25 ²⁵ 7	5 ¹⁵ 15	4 ⁵ 5	17 ¹⁷ 31	13 ¹³ 52	12 ¹² 54	26 ³⁷ 37	9 ³³ 33	T 15
W16	0 11 14	0 ⁰ 52'08	3 ³ 11	13 ¹³ 11	27 ²⁷ 23	27 ²⁷ 9	24 ²⁴ 54	25 ²⁵ 5	5 ¹⁴ 14	4 ⁶ 6	17 ¹⁷ 31	13 ¹³ 53	12 ¹² 51	26 ⁴⁴ 44	9 ⁴² 42	W16
T 17	0 15 10	1 ¹ 51'16	16 ¹⁶ 5	14 ¹⁴ 26	28 ²⁸ 36	27 ²⁷ 44	25 ²⁵ 7	25 ²⁵ 3	5 ¹³ 13	4 ⁶ 6	17 ¹⁷ 31	13 ¹³ R53	12 ¹² 47	26 ⁵⁰ 50	9 ⁵⁰ 50	T 17
F 18	0 19 7	2 ² 50'26	29 ²⁹ 28	15 ¹⁵ 45	29 ²⁹ 48	28 ²⁸ 18	25 ²⁵ 19	25 ²⁵ 1	5 ¹² 12	4 ⁷ 7	17 ¹⁷ 31	13 ¹³ 52	12 ¹² 44	26 ⁵⁷ 57	9 ⁵⁹ 59	F 18
S 19	0 23 3	3 ³ 49'39	13 ¹³ 40	17 ¹⁷ 9	1 ¹ 11	28 ²⁸ 53	25 ²⁵ 32	24 ²⁴ 59	5 ¹¹ 11	4 ⁷ 7	17 ¹⁷ 31	13 ¹³ 51	12 ¹² 41	27 ⁴ 4	10 ⁸ 8	S 19
S 20	0 27 0	4 ⁴ 48'53	2 ² 7	18 ¹⁸ 38	2 ² 14	29 ²⁹ 28	25 ²⁵ 45	24 ²⁴ 57	5 ¹⁰ 10	4 ⁷ 7	17 ¹⁷ 31	13 ¹³ 48	12 ¹² 38	27 ¹⁰ 10	10 ¹⁶ 16	S 20
M21	0 30 57	5 ⁵ 48'10	11 ¹¹ 16	20 ²⁰ 10	3 ³ 27	0 ⁰ 2	25 ²⁵ 58	24 ²⁴ 55	5 ⁹ 9	4 ⁸ 8	17 ¹⁷ 30	13 ¹³ 45	12 ¹² 35	27 ¹⁷ 17	10 ²⁵ 25	M21
T 22	0 34 53	6 ⁶ 47'28	25 ²⁵ 33	21 ²¹ 44	4 ⁴ 39	0 ⁰ 37	26 ²⁶ 11	24 ²⁴ 52	5 ⁸ 8	4 ⁸ 8	17 ¹⁷ 30	13 ¹³ 42	12 ¹² 31	27 ²⁴ 24	10 ³⁴ 34	T 22
W23	0 38 50	7 ⁷ 46'48	9 ⁹ 52	23 ²³ 21	5 ⁵ 52	1 ¹ 11	26 ²⁶ 24	24 ²⁴ 50	5 ⁸ 8	4 ⁸ 8	17 ¹⁷ 30	13 ¹³ 39	12 ¹² 28	27 ³¹ 31	10 ⁴² 42	W23
T 24	0 42 46	8 ⁸ 46'11	24 ²⁴ 10	25 ²⁵ 0	7 ⁷ 5	1 ¹ 45	26 ²⁶ 37	24 ²⁴ 47	5 ⁷ 7	4 ⁸ 8	17 ¹⁷ 29	13 ¹³ 38	12 ¹² 25	27 ³⁷ 37	10 ⁵¹ 51	T 24
F 25	0 46 43	9 ⁹ 45'35	8 ⁸ 24	26 ²⁶ 40	8 ⁸ 18	2 ² 19	26 ²⁶ 50	24 ²⁴ 45	5 ⁶ 6	4 ⁹ 9	17 ¹⁷ 29	13 ¹³ D37	12 ¹² 22	27 ⁴⁴ 44	11 ⁰ 0	F 25
S 26	0 50 39	10 ¹⁰ 45'00	22 ²² 31	28 ²⁸ 22	9 ⁹ 32	2 ² 53	27 ²⁷ 3	24 ²⁴ 42	5 ⁶ 6	4 ⁹ 9	17 ¹⁷ 29	13 ¹³ 37	12 ¹² 19	27 ⁵¹ 51	11 ⁹ 9	S 26
S 27	0 54 36	11 ¹¹ 44'28	6 ⁶ 30	0 ⁰ 4	10 ¹⁰ 45	3 ³ 27	27 ²⁷ 15	24 ²⁴ 39	5 ⁵ 5	4 ⁹ 9	17 ¹⁷ 28	13 ¹³ 38	12 ¹² 16	27 ⁵⁸ 58	11 ¹⁷ 17	S 27
M28	0 58 32	12 ¹² 43'57	20 ²⁰ 20	1 ¹ 47	11 ¹¹ 58	4 ⁴ 0	27 ²⁷ 28	24 ²⁴ 36	5 ⁵ 5	4 ⁹ 9	17 ¹⁷ 28	13 ¹³ 40	12 ¹² 12	28 ⁴ 4	11 ²⁶ 26	M28
T 29	1 2 29	13 ¹³ 43'28	3 ³ 59	3 ³ 31	13 ¹³ 11	4 ⁴ 34	27 ²⁷ 41	24 ²⁴ 33	5 ⁵ 5	4 ^R 9	17 ¹⁷ 28	13 ¹³ 41	12 ¹² 9	28 ¹¹ 11	11 ³⁵ 35	T 29
W30	1 6 26	14 ¹⁴ 43'00	17 ¹⁷ 27	5 ⁵ 14	14 ¹⁴ 25	5 ⁵ 12	27 ²⁷ 54	24 ²⁴ 30	5 ⁴ 4	4 ⁹ 9	17 ¹⁷ 27	13 ¹³ R42	12 ¹² 6	28 ¹¹ 11	11 ⁴³ 43	W30

Day	☉	☾		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	5n29	15s 7	1s46	4n53	2s39	18n 0	0n 3	23n 3	0n47	4n20	1n 6	16n58	2s15	19s35	0s40	22n28	0s59	15n13	7s45	6s22	6s27	28n28	4s30	1s37
W 2	5 6	8 59	0 31	5 30	2 21	17 44	0 7	22 59	0 48	4 15	1 6	16 58	2 16	19 36	0 40	22 28	0 59	15 13	7 45	6 22	6 29	28 28	4 33	1 37
T 3	4 43	2 32	0n44	6 6	2 1	17 28	0 10	22 55	0 49	4 10	1 6	16 58	2 16	19 36	0 40	22 28	0 59	15 13	7 45	6 22	6 30	28 28	4 36	1 36
F 4	4 20	3n53	1 56	6 39	1 41	17 11	0 13	22 51	0 50	4 5	1 6	16 57	2 16	19 36	0 40	22 28	0 59	15 13	7 45	6 22	6 31	28 28	4 39	1 36
S 5	3 57	10 0	3 0	7 9	1 22	16 53	0 17	22 46	0 51	4 0	1 6	16 57	2 16	19 37	0 40	22 28	0 59	15 12	7 45	6 22	6 32	28 28	4 42	1 36
S 6	3 34	15 33	3 53	7 35	1 2	16 35	0 20	22 42	0 52	3 55	1 6	16 57	2 16	19 37	0 40	22 28	1 0	15 12	7 45	6 22	6 33	28 28	4 45	1 35
M 7	3 10	20 19	4 34	7 58	0 42	16 17	0 23	22 37	0 53	3 49	1 6	16 56	2 16	19 37	0 40	22 28	1 0	15 12	7 46	6 23	6 35	28 28	4 48	1 35
T 8	2 47	24 9	5 1	8 16	0 24	15 58	0 26	22 32	0 54	3 44	1 6	16 56	2 17	19 38	0 40	22 28	1 0	15 12	7 46	6 23	6 36	28 28	4 51	1 35
W 9	2 24	26 52	5 15	8 30	0 6	15 39	0 29	22 27	0 55	3 39	1 6	16 56	2 17	19 38	0 40	22 28	1 0	15 12	7 46	6 23	6 37	28 28	4 54	1 34
T 10	2 0	28 21	5 14	8 39	0n11	15 19	0 32	22 22	0 56	3 34	1 6	16 55	2 17	19 38	0 40	22 28	1 0	15 12	7 46	6 24	6 38	28 28	4 57	1 34
F 11	1 37	28 31	5 1	8 43	0 27	14 59	0 35	22 16	0 57	3 29	1 6	16 55	2 17	19 39	0 40	22 28	1 0	15 12	7 46	6 24	6 40	28 28	5 0	1 34
S 12	1 13	27 22	4 35	8 43	0 41	14 38	0 38	22 11	0 58	3 24	1 6	16 54	2 17	19 39	0 40	22 28	1 0	15 12	7 46	6 23	6 41	28 28	5 3	1 33
S 13	0 50	24 57	3 56	8 38	0 54	14 17	0 41	22 5	0 58	3 19	1 6	16 54	2 18	19 39	0 40	22 28	1 0	15 11	7 46	6 23	6 42	28 28	5 7	1 33
M14	0 26	21 22	3 6	8 28	1 6	13 56	0 44	22 0	0 59	3 13	1 7	16 53	2 18	19 39	0 40	22 28	1 0	15 11	7 46	6 23	6 43	28 28	5 10	1 33
T 15	0 3	16 46	2 7	8 15	1 17	13 34	0 47	21 54	1 0	3 8	1 7	16 53	2 18	19 40	0 40	22 28	1 0	15 11	7 47	6 22	6 44	28 28	5 13	1 33
W16	0s21	11 21	1 0	7 57	1 26	13 11	0 49	21 48	1 1	3 3	1 7	16 52	2 18	19 40	0 40	22 28	1 0	15 11	7 47	6 22	6 46	28 28	5 16	1 32
T 17	0 44	5 19	0s12	7 35	1 34	12 49	0 52	21 42	1 2	2 58	1 7	16 51	2 18	19 40	0 40	22 28	1 0	15 11	7 47	6 22	6 47	28 28	5 19	1 32
F 18	1 8	1s 5	1 25	7 11	1 40	12 26	0 54	21 36	1 3	2 53	1 7	16 51	2 18	19 40	0 40	22 27	1 0	15 11	7 47	6 22	6 48	28 28	5 22	1 32
S 19	1 32	7 35	2 34	6 43	1 46	12 2	0 57	21 30	1 4	2 48	1 7	16 50	2 19	19 41	0 40	22 27	1 0	15 11	7 47	6 22	6 49	28 28	5 25	1 31
S 20	1 55	13 50	3 36	6 12	1 50	11 38	0 59	21 24	1 5	2 43	1 7	16 49	2 19	19 41	0 40	22 27	1 0	15 11	7 47	6 23	6 51	28 28	5 28	1 31
M21	2 19	19 27	4 25	5 39	1 53	11 14	1 2	21 17	1 6	2 38	1 7	16 49	2 19	19 41	0 40	22 27	1 0	15 10	7 47	6 25	6 52	28 28	5 32	1 31
T 22	2 42	24 2	4 58	5 3	1 55	10 50	1 4	21 11	1 7	2 33	1 7	16 48	2 19	19 41	0 40	22 27	1 0	15 10	7 47	6 26	6 53	28 28	5 35	1 30
W23	3 6	27 10	5 13	4 26	1 57	10 25	1 6	21 4	1 8	2 27	1 7	16 47	2 19	19 41	0 40	22 27	1 0	15 10	7 48	6 27	6 54	28 28	5 38	1 30
T 24	3 29	28 32	5 8	3 47	1 57	10 0	1 8	20 58	1 9	2 22	1 7	16 47	2 19	19 41	0 40	22 27	1 0	15 10	7 48	6 28	6 55	28 28	5 41	1 30
F 25	3 53	27 59	4 45	3 7	1 57	9 34	1 10	20 51	1 10	2 17	1 7	16 46	2 19	19 41	0 39	22 27	1 0	15 10	7 48	6 28	6 57	28 28	5 44	1 29
S 26	4 16	25 39	4 4	2 25	1 56	9 8	1 12	20 44	1 11	2 12	1 7	16 45	2 20	19 42	0 39	22 27	1 0	15 10	7 48	6 28	6 58	28 28	5 47	1 29
S 27	4 39	21 46	3 10	1 43	1 54	8 42	1 14	20 37	1 12	2 7	1 7	16 44	2 20	19 42	0 39	22 27	1 0	15 9	7 48	6 27	6 59	28 27	5 51	1 29
M28	5 3	16 43	2 4	0 59	1 51	8 16	1 16	20 30	1 13	2 2	1 7	16 43	2 20	19 42	0 39	22 27	1 0	15 9	7 48	6 27	7 0	28 27	5 54	1 29
T 29	5 26	10 54	0 53	0 16	1 49	7 50	1 18	20 23	1 14	1 57	1 7	16 43	2 20	19 42	0 39	22 27	1 0	15 9	7 48	6 26	7 1	28 27	5 57	1 28
W30	5s49	4s40	0n21	0s29	1n45	7n23	1n20	20n16	1n15	1n52	1n 7	16n42	2s20	19s42	0s39	22n27	1s 0	15n 9	7s48	6s26	7s 3	28n27	6s 0	1s28

ASTRODIENST EPHEMERIS for the year 1411

geocentric

OCTOBER 1411 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 10 22	15 ⁴² 35	0 ⁴³ 43	6 ⁵⁸ 58	15 ³⁸ 38	5 ⁴⁰ 40	28 ¹⁶ 6	24 ²⁷ 27	5 ⁴ R 4	4 ⁹ R 9	17 ²⁷ 27	13 ⁴⁰ R40	12 ³ 3	28 ²⁴ 24	11 ⁵² 52	T 1
F 2	1 14 19	16 ⁴² 11	13 ⁴⁷ 47	8 ⁴¹ 41	16 ⁵² 52	6 ¹³ 13	28 ¹⁹ 19	24 ²⁴ 24	5 ⁴ 4	4 ⁹ 9	17 ²⁶ 26	13 ³⁷ 37	12 ⁰ 0	28 ³¹ 31	12 ¹ 1	F 2
S 3	1 18 15	17 ⁴¹ 50	26 ³⁷ 37	10 ²⁵ 25	18 ⁵ 5	6 ⁴⁶ 46	28 ³² 32	24 ²⁰ 20	5 ³ 3	4 ⁹ 9	17 ²⁶ 26	13 ³³ 33	11 ⁵⁷ 57	28 ³⁸ 38	12 ⁹ 9	S 3
S 4	1 22 12	18 ⁴¹ 31	9 ¹³ 13	12 ⁸ 8	19 ¹⁹ 19	7 ¹⁹ 19	28 ⁴⁴ 44	24 ¹⁷ 17	5 ³ 3	4 ⁸ 8	17 ²⁵ 25	13 ²⁷ 27	11 ⁵³ 53	28 ⁴⁵ 45	12 ¹⁸ 18	S 4
M 5	1 26 8	19 ⁴¹ 13	21 ³⁷ 37	13 ⁵⁰ 50	20 ³³ 33	7 ⁵² 52	28 ⁵⁷ 57	24 ¹³ 13	5 ³ 3	4 ⁸ 8	17 ²⁵ 25	13 ²¹ 21	11 ⁵⁰ 50	28 ⁵¹ 51	12 ²⁷ 27	M 5
T 6	1 30 5	20 ⁴⁰ 58	3 ⁴⁸ 48	15 ³³ 33	21 ⁴⁷ 47	8 ²⁴ 24	29 ⁹ 9	24 ¹⁰ 10	5 ³ 3	4 ⁸ 8	17 ²⁴ 24	13 ¹⁴ 14	11 ⁴⁷ 47	28 ⁵⁸ 58	12 ³⁵ 35	T 6
W 7	1 34 1	21 ⁴⁰ 46	15 ⁴⁹ 49	17 ¹⁴ 14	23 ⁰ 0	8 ⁵⁷ 57	29 ²² 22	24 ⁶ 6	5 ^D 3	4 ⁸ 8	17 ²⁴ 24	13 ⁸ 8	11 ⁴⁴ 44	29 ⁵ 5	12 ⁴⁴ 44	W 7
T 8	1 37 58	22 ⁴⁰ 35	27 ⁴⁴ 44	18 ⁵⁶ 56	24 ¹⁴ 14	9 ²⁹ 29	29 ³⁴ 34	24 ² 2	5 ³ 3	4 ⁸ 8	17 ²³ 23	13 ³ 3	11 ⁴¹ 41	29 ¹¹ 11	12 ⁵³ 53	T 8
F 9	1 41 55	23 ⁴⁰ 27	9 ³⁵ 35	20 ³⁷ 37	25 ²⁸ 28	10 ¹ 1	29 ⁴⁷ 47	23 ⁵⁸ 58	5 ³ 3	4 ⁷ 7	17 ²² 22	13 ⁰ 0	11 ³⁷ 37	29 ¹⁸ 18	13 ¹ 1	F 9
S 10	1 45 51	24 ⁴⁰ 21	21 ²⁸ 28	22 ¹⁷ 17	26 ⁴² 42	10 ³³ 33	29 ⁵⁹ 59	23 ⁵⁴ 54	5 ³ 3	4 ⁷ 7	17 ²² 22	12 ^D 59	11 ³⁴ 34	29 ²⁵ 25	13 ¹⁰ 10	S 10
S 11	1 49 48	25 ⁴⁰ 17	3 ²⁷ 27	23 ⁵⁷ 57	27 ⁵⁶ 56	11 ⁵ 5	0 ¹² 12	23 ⁵⁰ 50	5 ³ 3	4 ⁶ 6	17 ²¹ 21	12 ⁵⁹ 59	11 ³¹ 31	29 ³² 32	13 ¹⁹ 19	S 11
M12	1 53 44	26 ⁴⁰ 15	15 ³⁷ 37	25 ³⁶ 36	29 ¹⁰ 10	11 ³⁷ 37	0 ²⁴ 24	23 ⁴⁶ 46	5 ⁴ 4	4 ⁶ 6	17 ²⁰ 20	13 ⁰ 0	11 ²⁸ 28	29 ³⁸ 38	13 ²⁷ 27	M12
T 13	1 57 41	27 ⁴⁰ 15	28 ⁴ 4	27 ¹⁵ 15	0 ²⁵ 25	12 ⁸ 8	0 ³⁶ 36	23 ⁴² 42	5 ⁴ 4	4 ⁶ 6	17 ²⁰ 20	13 ² 2	11 ²⁵ 25	29 ⁴⁵ 45	13 ³⁶ 36	T 13
W14	2 1 37	28 ⁴⁰ 18	10 ⁵¹ 51	28 ⁵⁴ 54	1 ³⁹ 39	12 ⁴⁰ 40	0 ⁴⁸ 48	23 ³⁸ 38	5 ⁴ 4	4 ⁵ 5	17 ¹⁹ 19	13 ^R 3	11 ²² 22	29 ⁵² 52	13 ⁴⁴ 44	W14
T 15	2 5 34	29 ⁴⁰ 22	24 ² 2	0 ³² 32	2 ⁵³ 53	13 ¹¹ 11	1 ¹ 1	23 ³⁴ 34	5 ⁵ 5	4 ⁵ 5	17 ¹⁸ 18	13 ² 2	11 ¹⁸ 18	29 ⁵⁸ 58	13 ⁵³ 53	T 15
F 16	2 9 30	0 ⁴⁰ 29	7 ³⁸ 38	2 ⁹ 9	4 ⁷ 7	13 ⁴² 42	1 ¹³ 13	23 ³⁰ 30	5 ⁵ 5	4 ⁴ 4	17 ¹⁷ 17	13 ⁰ 0	11 ¹⁵ 15	0 ⁵ 5	14 ¹ 1	F 16
S 17	2 13 27	1 ⁴⁰ 38	21 ³⁹ 39	3 ⁴⁶ 46	5 ²² 22	14 ¹³ 13	1 ²⁵ 25	23 ²⁵ 25	5 ⁶ 6	4 ⁴ 4	17 ¹⁷ 17	12 ⁵⁵ 55	11 ¹² 12	0 ¹² 12	14 ¹⁰ 10	S 17
S 18	2 17 23	2 ⁴⁰ 48	6 ¹¹ 11	5 ²³ 23	6 ³⁶ 36	14 ⁴³ 43	1 ³⁷ 37	23 ²¹ 21	5 ⁶ 6	4 ³ 3	17 ¹⁶ 16	12 ⁴⁸ 48	11 ⁹ 9	0 ¹⁹ 19	14 ¹⁸ 18	S 18
M19	2 21 20	3 ⁴¹ 01	20 ³⁹ 39	6 ⁵⁹ 59	7 ⁵¹ 51	15 ¹⁴ 14	1 ⁴⁹ 49	23 ¹⁶ 16	5 ⁷ 7	4 ² 2	17 ¹⁵ 15	12 ⁴⁰ 40	11 ⁶ 6	0 ²⁵ 25	14 ²⁷ 27	M19
T 20	2 25 17	4 ⁴¹ 15	5 ²⁵ 25	8 ³⁵ 35	9 ⁵ 5	15 ⁴⁴ 44	2 ¹ 1	23 ¹² 12	5 ⁷ 7	4 ² 2	17 ¹⁴ 14	12 ³¹ 31	11 ³ 3	0 ³² 32	14 ³⁵ 35	T 20
W21	2 29 13	5 ⁴¹ 31	20 ¹⁰ 10	10 ¹⁰ 10	10 ²⁰ 20	16 ¹⁴ 14	2 ¹³ 13	23 ⁷ 7	5 ⁸ 8	4 ¹ 1	17 ¹³ 13	12 ²⁴ 24	10 ⁵⁹ 59	0 ³⁹ 39	14 ⁴³ 43	W21
T 22	2 33 10	6 ⁴¹ 49	4 ³⁸ 38	11 ⁴⁵ 45	11 ³⁴ 34	16 ⁴⁴ 44	2 ²⁴ 24	23 ³ 3	5 ⁹ 9	4 ⁰ 0	17 ¹³ 13	12 ¹⁸ 18	10 ⁵⁶ 56	0 ⁴⁵ 45	14 ⁵² 52	T 22
F 23	2 37 6	7 ⁴² 08	19 ¹³ 13	13 ²⁰ 20	12 ⁴⁹ 49	17 ¹⁴ 14	2 ³⁶ 36	22 ⁵⁸ 58	5 ¹⁰ 10	3 ⁵⁹ 59	17 ¹² 12	12 ¹⁴ 14	10 ⁵³ 53	0 ⁵² 52	15 ⁰ 0	F 23
S 24	2 41 3	8 ⁴² 28	3 ²² 22	14 ⁵⁴ 54	14 ⁴ 4	17 ⁴³ 43	2 ⁴⁸ 48	22 ⁵³ 53	5 ¹⁰ 10	3 ⁵⁹ 59	17 ¹¹ 11	12 ^D 12	10 ⁵⁰ 50	0 ⁵⁹ 59	15 ⁸ 8	S 24
S 25	2 44 59	9 ⁴² 50	17 ¹⁴ 14	16 ²⁸ 28	15 ¹⁸ 18	18 ¹³ 13	3 ⁰ 0	22 ⁴⁹ 49	5 ¹¹ 11	3 ⁵⁸ 58	17 ¹⁰ 10	12 ¹³ 13	10 ⁴⁷ 47	1 ⁶ 6	15 ¹⁷ 17	S 25
M26	2 48 56	10 ⁴³ 13	0 ⁴⁹ 49	18 ¹ 1	16 ³³ 33	18 ⁴² 42	3 ¹¹ 11	22 ⁴⁴ 44	5 ¹² 12	3 ⁵⁷ 57	17 ⁹ 9	12 ¹³ 13	10 ⁴³ 43	1 ¹² 12	15 ²⁵ 25	M26
T 27	2 52 53	11 ⁴³ 38	14 ⁸ 8	19 ³⁵ 35	17 ⁴⁸ 48	19 ¹¹ 11	3 ²³ 23	22 ³⁹ 39	5 ¹³ 13	3 ⁵⁶ 56	17 ⁸ 8	12 ^R 14	10 ⁴⁰ 40	1 ¹⁹ 19	15 ³³ 33	T 27
W28	2 56 49	12 ⁴⁴ 03	27 ¹⁴ 14	21 ⁷ 7	19 ² 2	19 ³⁹ 39	3 ³⁴ 34	22 ³⁴ 34	5 ¹⁴ 14	3 ⁵⁵ 55	17 ⁷ 7	12 ¹³ 13	10 ³⁷ 37	1 ²⁶ 26	15 ⁴¹ 41	W28
T 29	3 0 46	13 ⁴⁴ 31	10 ⁴⁷ 47	22 ⁴⁰ 40	20 ¹⁷ 17	20 ⁸ 8	3 ⁴⁵ 45	22 ³⁰ 30	5 ¹⁵ 15	3 ⁵⁴ 54	17 ⁶ 6	12 ⁹ 9	10 ³⁴ 34	1 ³² 32	15 ⁴⁹ 49	T 29
F 30	3 4 42	14 ⁴⁴ 59	22 ⁵⁰ 50	24 ¹³ 13	21 ³² 32	20 ³⁶ 36	3 ⁵⁷ 57	22 ²⁵ 25	5 ¹⁷ 17	3 ⁵³ 53	17 ⁵ 5	12 ³ 3	10 ³¹ 31	1 ³⁹ 39	15 ⁵⁷ 57	F 30
S 31	3 8 39	15 ⁴⁵ 30	5 ²³ 23	25 ¹⁴ 14	22 ⁴⁷ 47	21 ¹² 12	4 ⁸ 8	22 ²⁰ 20	5 ¹⁸ 18	3 ⁵² 52	17 ⁴ 4	11 ^R 54	10 ^R 28	1 ⁴⁶ 46	16 ⁵ 5	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	decl	lat	decl	lat	decl	lat
T 1	6s12	1n41	1n32	1s13	1n41	6n56	1n21	20n 9	1n17	1n47	1n 7	16n41	2s20	19s42	0s39	22n27	1s 0	15n 9	7s48	6s26	7s 4	28n27	6s 3	1s28							
F 2	6 35	7 51	2 37	1 58	1 37	6 29	1 23	20 2	1 18	1 42	1 7	16 40	2 20	19 42	0 39	22 27	1 0	15 9	7 49	6 28	7 5	28 27	6 6	1 28							
S 3	6 58	13 36	3 33	2 43	1 32	6 1	1 25	19 55	1 19	1 37	1 8	16 39	2 20	19 42	0 39	22 27	1 0	15 9	7 49	6 29	7 6	28 26	6 10	1 27							
S 4	7 21	18 40	4 17	3 28	1 27	5 34	1 26	19 47	1 20	1 32	1 8	16 38	2 20	19 42	0 39	22 27	1 0	15 8	7 49	6 32	7 8	28 26	6 13	1 27							
M 5	7 44	22 51	4 48	4 13	1 22	5 6	1 27	19 40	1 21	1 27	1 8	16 37	2 21	19 42	0 39	22 27	1 0	15 8	7 49	6 34	7 9	28 26	6 16	1 27							
T 6	8 6	25 59	5 6	4 58	1 17	4 38	1 29	19 32	1 22	1 22	1 8	16 36	2 21	19 42	0 39	22 27	1 0	15 8	7 49	6 37	7 10	28 26	6 19	1 26							
W 7	8 29	27 53	5 9	5 42	1 11	4 9	1 30	19 25	1 23	1 17	1 8	16 35	2 21	19 42	0 39	22 27	1 0	15 8	7 49	6 39	7 11	28 26	6 22	1 26							
T 8	8 51	28 30	5 0	6 26	1 5	3 41	1 31	19 17	1 24	1 13	1 8	16 34	2 21	19 42	0 39	22 27	1 0	15 8	7 49	6 41	7 12	28 25	6 25	1 26							
F 9	9 13	27 47	4 37	7 10	0 59	3 13	1 32	19 10	1 25	1 8	1 8	16 33	2 21	19 42	0 39	22 27	1 0	15 8	7 49	6 42	7 14	28 25	6 28	1 26							
S 10	9 35	25 48	4 3	7 53	0 53	2 44	1 33	19 2	1 26	1 3	1 8	16 32	2 21	19 42	0 39	22 27	1 0	15 8	7 49	6 42	7 15	28 25	6 32	1 25							
S 11	9 57	22 39	3 18	8 36	0 46	2 15	1 34	18 54	1 27	0 58	1 8	16 31	2 21	19 42	0 39	22 27	1 0	15 7	7 49	6 42	7 16	28 25	6 35	1 25							
M12	10 19	18 29	2 23	9 19	0 40	1 46	1 35	18 46	1 29	0 53	1 8	16 30	2 21	19 42	0 39	22 27	1 0	15 7	7 50	6 42	7 17	28 24	6 38	1 25							
T 13	10 41	13 26	1 20	10 1	0 33	1 18	1 35	18 39	1 30	0 48	1 8	16 29	2 21	19 42	0 39	22 27	1 0	15 7	7 50	6 41	7 18	28 24	6 41	1 25							
W14	11 2	7 42	0 12	10 42	0 27	0 49	1 36	18 31	1 31	0 43	1 8	16 28	2 21	19 42	0 39	22 27	1 0	15 7	7 50	6 41	7 20	28 24	6 44	1 24							
T 15	11 24	1 29	0s59	11 23	0 20	0 19	1 36	18 23	1 32	0 39	1 9	16 27	2 21	19 41	0 39	22 27	1 0	15 7	7 50	6 41	7 21	28 24	6 47	1 24							
F 16	11 45	5s 0	2 9	12 3	0 14	0s10	1 37	18 15	1 33	0 34	1 9	16 26	2 21	19 41	0 39	22 27	1 0	15 7	7 50	6 42	7 22	28 23	6 50	1 24							
S 17	12 6	11 26	3 12	12 42	0 7	0 39	1 37	18 7	1 34	0 29	1 9	16 24	2 21	19 41	0 39	22 27	1 0	15 6	7 50	6 44	7 23	28 23	6 53	1 24							
S 18	12 27	17 26	4 6	13 21	0 0	1 8	1 38	18 0	1 35	0 25	1 9	16 23	2 22	19 41	0 39	22 27	1 1	15 6	7 50	6 47	7 25	28 23	6 56	1 23							
M19	12 47	22 32	4 44	14 0	0s 7	1 37	1 38	17 52	1 37	0 20	1 9	16 22	2 22	19 41	0 39	22 27	1 1	15 6	7 50	6 50	7 26	28 22	6 59	1 23							
T 20	13 8	26 15	5 3	14 37	0 13	2 7	1 38	17 44	1 38	0 15	1 9	16 21	2 22	19 41	0 39	22 27	1 1	15 6	7 50	6 53	7 27	28 22	7 2	1 23							
W21	13 28	28 11	5 3	15 14	0 20	2 36	1 38	17 36	1 39	0 11	1 9	16 20	2 22	19 40	0 39	22 27	1 1	15 6	7 50	6 56	7 28	28 22	7 5	1 23							
T 22	13 48	28 8	4 43	15 50	0 26	3 5	1 38	17 28	1 40	0 6	1 9	16 19	2 22	19 40	0 39	22 27	1 1	15 6	7 50	6 58	7 29	28 21	7 8	1 22							
F 23	14 7	26 10	4 5	16 25	0 33	3 34	1 38	17 20	1 41	0 1	1 9	16 17	2 22	19 40	0 39	22 27	1 1	15 6	7 50	7 0	7 31	28 21	7 11	1 22							
S 24	14 27	22 35	3 12	16 59	0 39	4 3	1 38	17 12	1 43	0s 3	1 10	16 16	2 22	19 40	0 39	22 27	1 1	15 5	7 51	7 0	7 32	28 21	7 14	1 22							
S 25	14 46	17 47	2 10	17 33	0 46	4 32	1 38	17 4	1 44	0 8	1 10	16 15	2 22	19 39	0 39	22 27	1 1	15 5	7 51	7 0	7 33	28 20	7 17	1 22							
M26	15 5	12 10	1 1	18 5	0 52	5 1	1 38	16 56	1 45	0 12	1 10	16 14	2 22	19 39	0 39	22 27	1 1	15 5	7 51	7 0	7 34	28 20	7 20	1 21							
T 27	15 24	6 6	0n10	18 37	0 58	5 30	1 37	16 48	1 46	0 17	1 10	16 13	2 22	19 39	0 39	22 27	1 1	15 5	7 51	7 0	7 35	28 20	7 23	1 21							
W28	15 43	0n 6	1 19	19 8	1 4	5 59	1 37	16 41	1 48	0 21	1 10	16 11	2 22	19 39	0 39	22 27	1 1	15 5	7 51	7 0	7 37	28 19	7 26	1 21							
T 29	16 1	6 13	2 23	19 38	1 10	6 28	1 36	16 33	1 49	0 26	1 10	16 10	2 22	19 38	0 39	22 27	1 1	15 5	7 51	7 1	7 38	28 19	7 29	1 21							
F 30	16 19	11 53	3 18	20 7	1 16	6 56	1 36	16 25	1 50	0 30	1 10	16 9	2 22	19 38	0 38	22 27	1 1	15 5	7 51	7 4	7 39	28 18	7 32	1 21							
S 31	16s37	17n11	4n 3	20s35	1s22	7s25	1n35	16n17	1n52	0s34	1n10	16n 8	2s22	19s38	0s38	22n27	1s 1	15n 4	7s51	7s 7	7s40	28n18	7s35	1s20							

ASTRODIENST EPHEMERIS for the year 1411

geocentric

NOVEMBER 1411 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	3 12 35	16 ¹¹ 46'01	17 ⁸ 46	27 ¹¹ 17	24 ² 2	21 ¹¹ 32	4 ¹⁹ 19	22 ¹¹ R15	5 ²² 19	3 ¹⁹ R51	17 ¹⁹ R 3	11 ¹⁹ R43	10 ¹¹ 24	1 ¹⁹ 53	16 ¹¹ 13	S 1
M 2	3 16 32	17 ¹⁹ 46'35	29 ¹⁹ 59	28 ¹⁹ 48	25 ¹⁹ 17	22 ¹⁹ 0	4 ¹⁹ 30	22 ¹⁹ 8'10	5 ¹⁹ 20	3 ¹⁹ 50	17 ¹⁹ II 2	11 ¹⁹ 30	10 ¹⁹ 21	1 ¹⁹ 59	16 ¹⁹ 21	M 2
T 3	3 20 28	18 ¹⁹ 47'10	12 ¹⁹ II 5	0 ¹⁹ 20	26 ¹⁹ 32	22 ¹⁹ 27	4 ¹⁹ 41	22 ¹⁹ 5	5 ¹⁹ 22	3 ¹⁹ 49	17 ¹⁹ 1	11 ¹⁹ 17	10 ¹⁹ 18	2 ¹⁹ 6	16 ¹⁹ 29	T 3
W 4	3 24 25	19 ¹⁹ 47'47	24 ¹⁹ 2	1 ¹⁹ 51	27 ¹⁹ 47	22 ¹⁹ 54	4 ¹⁹ 52	22 ¹⁹ 0	5 ¹⁹ 23	3 ¹⁹ 48	17 ¹⁹ 0	11 ¹⁹ 5	10 ¹⁹ 15	2 ¹⁹ 13	16 ¹⁹ 37	W 4
T 5	3 28 22	20 ¹⁹ 48'25	5 ¹⁹ 55	3 ¹⁹ 22	29 ¹⁹ 2	23 ¹⁹ 21	5 ¹⁹ 3	21 ¹⁹ 55	5 ¹⁹ 24	3 ¹⁹ 47	16 ¹⁹ 59	10 ¹⁹ 54	10 ¹⁹ 12	2 ¹⁹ 19	16 ¹⁹ 45	T 5
F 6	3 32 18	21 ¹⁹ 49'05	17 ¹⁹ 45	4 ¹⁹ 52	0 ¹⁹ 17	23 ¹⁹ 48	5 ¹⁹ 14	21 ¹⁹ 50	5 ¹⁹ 26	3 ¹⁹ 46	16 ¹⁹ 58	10 ¹⁹ 47	10 ¹⁹ 9	2 ¹⁹ 26	16 ¹⁹ 52	F 6
S 7	3 36 15	22 ¹⁹ 49'46	29 ¹⁹ 35	6 ¹⁹ 23	1 ¹⁹ 32	24 ¹⁹ 14	5 ¹⁹ 24	21 ¹⁹ 45	5 ¹⁹ 28	3 ¹⁹ 45	16 ¹⁹ 57	10 ¹⁹ 41	10 ¹⁹ 5	2 ¹⁹ 33	17 ¹⁹ 0	S 7
S 8	3 40 11	23 ¹⁹ 50'29	11 ¹⁹ 21	7 ¹⁹ 53	2 ¹⁹ 47	24 ¹⁹ 40	5 ¹⁹ 35	21 ¹⁹ 40	5 ¹⁹ 29	3 ¹⁹ 43	16 ¹⁹ 56	10 ¹⁹ 39	10 ¹⁹ 2	2 ¹⁹ 40	17 ¹⁹ 8	S 8
M 9	3 44 8	24 ¹⁹ 51'14	23 ¹⁹ 37	9 ¹⁹ 23	4 ¹⁹ 2	25 ¹⁹ 6	5 ¹⁹ 46	21 ¹⁹ 36	5 ¹⁹ 31	3 ¹⁹ 42	16 ¹⁹ 55	10 ¹⁹ D38	9 ¹⁹ 59	2 ¹⁹ 46	17 ¹⁹ 15	M 9
T 10	3 48 4	25 ¹⁹ 52'00	5 ¹⁹ 59	10 ¹⁹ 52	5 ¹⁹ 17	25 ¹⁹ 32	5 ¹⁹ 56	21 ¹⁹ 31	5 ¹⁹ 32	3 ¹⁹ 41	16 ¹⁹ 54	10 ¹⁹ R38	9 ¹⁹ 56	2 ¹⁹ 53	17 ¹⁹ 23	T 10
W11	3 52 1	26 ¹⁹ 52'48	18 ¹⁹ 42	12 ¹⁹ 21	6 ¹⁹ 32	25 ¹⁹ 57	6 ¹⁹ 6	21 ¹⁹ 26	5 ¹⁹ 34	3 ¹⁹ 40	16 ¹⁹ 53	10 ¹⁹ 38	9 ¹⁹ 53	3 ¹⁹ 0	17 ¹⁹ 30	W11
T 12	3 55 57	27 ¹⁹ 53'37	1 ¹⁹ 21	13 ¹⁹ 49	7 ¹⁹ 47	26 ¹⁹ 22	6 ¹⁹ 17	21 ¹⁹ 21	5 ¹⁹ 36	3 ¹⁹ 38	16 ¹⁹ 52	10 ¹⁹ 36	9 ¹⁹ 49	3 ¹⁹ 6	17 ¹⁹ 38	T 12
F 13	3 59 54	28 ¹⁹ 54'27	15 ¹⁹ 28	15 ¹⁹ 17	9 ¹⁹ 2	26 ¹⁹ 47	6 ¹⁹ 27	21 ¹⁹ 16	5 ¹⁹ 38	3 ¹⁹ 37	16 ¹⁹ 51	10 ¹⁹ 32	9 ¹⁹ 46	3 ¹⁹ 13	17 ¹⁹ 45	F 13
S 14	4 3 51	29 ¹⁹ 55'20	29 ¹⁹ 34	16 ¹⁹ 45	10 ¹⁹ 18	27 ¹⁹ 11	6 ¹⁹ 37	21 ¹⁹ 11	5 ¹⁹ 40	3 ¹⁹ 36	16 ¹⁹ 50	10 ¹⁹ 26	9 ¹⁹ 43	3 ¹⁹ 20	17 ¹⁹ 53	S 14
S 15	4 7 47	0 ¹⁹ 56'13	14 ¹⁹ II 9	18 ¹⁹ 12	11 ¹⁹ 33	27 ¹⁹ 35	6 ¹⁹ 47	21 ¹⁹ 6	5 ¹⁹ 41	3 ¹⁹ 34	16 ¹⁹ 48	10 ¹⁹ 16	9 ¹⁹ 40	3 ¹⁹ 27	18 ¹⁹ 0	S 15
M16	4 11 44	1 ¹⁹ 57'08	29 ¹⁹ 4	19 ¹⁹ 38	12 ¹⁹ 48	27 ¹⁹ 59	6 ¹⁹ 57	21 ¹⁹ 1	5 ¹⁹ 43	3 ¹⁹ 33	16 ¹⁹ 47	10 ¹⁹ 5	9 ¹⁹ 37	3 ¹⁹ 33	18 ¹⁹ 7	M16
T 17	4 15 40	2 ¹⁹ 58'04	14 ¹⁹ 21	21 ¹⁹ 3	14 ¹⁹ 3	28 ¹⁹ 23	7 ¹⁹ 7	20 ¹⁹ 57	5 ¹⁹ 45	3 ¹⁹ 32	16 ¹⁹ 46	9 ¹⁹ 53	9 ¹⁹ 34	3 ¹⁹ 40	18 ¹⁹ 14	T 17
W18	4 19 37	3 ¹⁹ 59'01	29 ¹⁹ 23	22 ¹⁹ 27	15 ¹⁹ 19	28 ¹⁹ 46	7 ¹⁹ 16	20 ¹⁹ 52	5 ¹⁹ 47	3 ¹⁹ 30	16 ¹⁹ 45	9 ¹⁹ 42	9 ¹⁹ 30	3 ¹⁹ 47	18 ¹⁹ 21	W18
T 19	4 23 33	4 ¹⁹ 59'59	14 ¹⁹ 25	23 ¹⁹ 50	16 ¹⁹ 34	29 ¹⁹ 9	7 ¹⁹ 26	20 ¹⁹ 47	5 ¹⁹ 49	3 ¹⁹ 29	16 ¹⁹ 44	9 ¹⁹ 33	9 ¹⁹ 27	3 ¹⁹ 53	18 ¹⁹ 28	T 19
F 20	4 27 30	6 ¹⁹ 0'58	29 ¹⁹ 9	25 ¹⁹ 11	17 ¹⁹ 49	29 ¹⁹ 31	7 ¹⁹ 35	20 ¹⁹ 43	5 ¹⁹ 52	3 ¹⁹ 27	16 ¹⁹ 43	9 ¹⁹ 27	9 ¹⁹ 24	4 ¹⁹ 0	18 ¹⁹ 35	F 20
S 21	4 31 26	7 ¹⁹ 1'57	13 ¹⁹ 22	26 ¹⁹ 31	19 ¹⁹ 4	29 ¹⁹ 53	7 ¹⁹ 45	20 ¹⁹ 38	5 ¹⁹ 54	3 ¹⁹ 26	16 ¹⁹ 42	9 ¹⁹ 23	9 ¹⁹ 21	4 ¹⁹ 7	18 ¹⁹ 42	S 21
S 22	4 35 23	8 ¹⁹ 2'57	27 ¹⁹ 30	27 ¹⁹ 49	20 ¹⁹ 20	0 ¹⁹ 15	7 ¹⁹ 54	20 ¹⁹ 33	5 ¹⁹ 56	3 ¹⁹ 24	16 ¹⁹ 40	9 ¹⁹ 22	9 ¹⁹ 18	4 ¹⁹ 14	18 ¹⁹ 49	S 22
M23	4 39 20	9 ¹⁹ 3'58	11 ¹⁹ 21	29 ¹⁹ 5	21 ¹⁹ 35	0 ¹⁹ 37	8 ¹⁹ 3	20 ¹⁹ 29	5 ¹⁹ 58	3 ¹⁹ 23	16 ¹⁹ 39	9 ¹⁹ 22	9 ¹⁹ 15	4 ¹⁹ 20	18 ¹⁹ 56	M23
T 24	4 43 16	10 ¹⁹ 4'59	24 ¹⁹ 16	0 ¹⁹ 19	22 ¹⁹ 50	0 ¹⁹ 58	8 ¹⁹ 12	20 ¹⁹ 24	6 ¹⁹ 0	3 ¹⁹ 21	16 ¹⁹ 38	9 ¹⁹ 21	9 ¹⁹ 11	4 ¹⁹ 27	19 ¹⁹ 2	T 24
W25	4 47 13	11 ¹⁹ 6'00	7 ¹⁹ 10	1 ¹⁹ 29	24 ¹⁹ 6	1 ¹⁹ 19	8 ¹⁹ 21	20 ¹⁹ 20	6 ¹⁹ 3	3 ¹⁹ 20	16 ¹⁹ 37	9 ¹⁹ 19	9 ¹⁹ 8	4 ¹⁹ 34	19 ¹⁹ 9	W25
T 26	4 51 9	12 ¹⁹ 7'02	19 ¹⁹ 49	2 ¹⁹ 36	25 ¹⁹ 21	1 ¹⁹ 39	8 ¹⁹ 30	20 ¹⁹ 15	6 ¹⁹ 5	3 ¹⁹ 18	16 ¹⁹ 36	9 ¹⁹ 15	9 ¹⁹ 5	4 ¹⁹ 40	19 ¹⁹ 16	T 26
F 27	4 55 6	13 ¹⁹ 8'05	2 ¹⁹ 16	3 ¹⁹ 39	26 ¹⁹ 36	1 ¹⁹ 59	8 ¹⁹ 38	20 ¹⁹ 11	6 ¹⁹ 8	3 ¹⁹ 17	16 ¹⁹ 35	9 ¹⁹ 8	9 ¹⁹ 2	4 ¹⁹ 47	19 ¹⁹ 22	F 27
S 28	4 59 2	14 ¹⁹ 9'08	14 ¹⁹ 34	4 ¹⁹ 37	27 ¹⁹ 52	2 ¹⁹ 19	8 ¹⁹ 47	20 ¹⁹ 7	6 ¹⁹ 10	3 ¹⁹ 15	16 ¹⁹ 33	8 ¹⁹ 57	8 ¹⁹ 59	4 ¹⁹ 54	19 ¹⁹ 28	S 28
S 29	5 2 59	15 ¹⁹ 10'12	26 ¹⁹ 44	5 ¹⁹ 30	29 ¹⁹ 7	2 ¹⁹ 38	8 ¹⁹ 55	20 ¹⁹ 3	6 ¹⁹ 12	3 ¹⁹ 13	16 ¹⁹ 32	8 ¹⁹ 44	8 ¹⁹ 55	5 ¹⁹ 1	19 ¹⁹ 35	S 29
M30	5 6 55	16 ¹⁹ 11'17	8 ¹⁹ II 47	6 ¹⁹ 17	0 ¹⁹ 22	2 ¹⁹ 57	9 ¹⁹ 4	19 ¹⁹ 58	6 ¹⁹ 15	3 ¹⁹ 12	16 ¹⁹ 31	8 ¹⁹ 30	8 ¹⁹ 52	5 ¹⁹ 7	19 ¹⁹ 41	M30

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
S 1	16s54	21n36	4n36	21s 2	1s28	7s53	1n35	16n 9	1n53	0s39	1n11	16n 7	2s22	19s37	0s38	22n27	1s 1	15n 4	7s51	7s12	7s41	28n18	7s38	1s20	
M 2	17 11	25 2	4 56	21 28	1 33	8 21	1 34	16 1	1 54	0 43	1 11	16 5	2 22	19 37	0 38	22 27	1 1	15 4	7 51	7 16	7 43	28 17	7 41	1 20	
T 3	17 28	27 18	5 1	21 53	1 38	8 49	1 33	15 54	1 56	0 47	1 11	16 4	2 21	19 37	0 38	22 27	1 1	15 4	7 51	7 21	7 44	28 17	7 44	1 20	
W 4	17 45	28 17	4 54	22 17	1 43	9 17	1 32	15 46	1 57	0 51	1 11	16 3	2 21	19 36	0 38	22 27	1 1	15 4	7 51	7 26	7 45	28 16	7 46	1 19	
T 5	18 1	27 57	4 34	22 40	1 48	9 45	1 31	15 38	1 58	0 55	1 11	16 2	2 21	19 36	0 38	22 27	1 1	15 4	7 51	7 30	7 46	28 16	7 49	1 19	
F 6	18 17	26 20	4 2	23 1	1 52	10 12	1 30	15 31	2 0	1 0	1 11	16 1	2 21	19 36	0 38	22 27	1 1	15 4	7 51	7 33	7 47	28 15	7 52	1 19	
S 7	18 32	23 33	3 19	23 22	1 57	10 39	1 29	15 23	2 1	1 4	1 11	15 59	2 21	19 35	0 38	22 27	1 1	15 4	7 51	7 35	7 49	28 15	7 55	1 19	
S 8	18 48	19 45	2 28	23 41	2 1	11 6	1 28	15 16	2 2	1 8	1 12	15 58	2 21	19 35	0 38	22 27	1 1	15 3	7 51	7 36	7 50	28 14	7 58	1 19	
M 9	19 3	15 5	1 29	23 59	2 5	11 33	1 27	15 8	2 4	1 12	1 12	15 57	2 21	19 34	0 38	22 27	1 1	15 3	7 51	7 36	7 51	28 14	8 0	1 18	
T 10	19 17	9 44	0 25	24 16	2 8	11 59	1 25	15 1	2 5	1 16	1 12	15 56	2 21	19 34	0 38	22 27	1 1	15 3	7 51	7 36	7 52	28 14	8 3	1 18	
W11	19 31	3 50	0s43	24 31	2 11	12 25	1 24	14 54	2 7	1 20	1 12	15 55	2 21	19 33	0 38	22 27	1 1	15 3	7 51	7 36	7 53	28 13	8 6	1 18	
T 12	19 45	2s25	1 50	24 45	2 14	12 51	1 23	14 47	2 8	1 24	1 12	15 53	2 21	19 33	0 38	22 27	1 1	15 3	7 51	7 37	7 55	28 13	8 8	1 18	
F 13	19 59	8 46	2 53	24 58	2 17	13 16	1 21	14 39	2 10	1 28	1 12	15 52	2 21	19 33	0 38	22 27	1 1	15 3	7 51	7 38	7 56	28 12	8 11	1 18	
S 14	20 12	14 54	3 48	25 9	2 19	13 42	1 20	14 32	2 11	1 31	1 13	15 51	2 21	19 32	0 38	22 27	1 1	15 3	7 51	7 41	7 57	28 11	8 14	1 17	
S 15	20 25	20 25	4 30	25 19	2 20	14 6	1 18	14 25	2 13	1 35	1 13	15 50	2 21	19 32	0 38	22 27	1 1	15 3	7 51	7 44	7 58	28 11	8 16	1 17	
M16	20 37	24 48	4 55	25 28	2 22	14 31	1 17	14 19	2 14	1 39	1 13	15 49	2 20	19 31	0 38	22 27	1 1	15 2	7 51	7 49	7 59	28 10	8 19	1 17	
T 17	20 49	27 32	4 59	25 35	2 23	14 55	1 15	14 12	2 16	1 43	1 13	15 48	2 20	19 31	0 38	22 27	1 1	15 2	7 51	7 53	8 1	28 10	8 21	1 17	
W18	21 1	28 14	4 43	25 41	2 23	15 19	1 13	14 5	2 17	1 46	1 13	15 47	2 20	19 30	0 38	22 27	1 1	15 2	7 51	7 57	8 2	28 9	8 24	1 17	
T 19	21 12	26 50	4 7	25 45	2 23	15 42	1 11	13 58	2 19	1 50	1 13	15 45	2 20	19 29	0 38	22 27	1 1	15 2	7 51	8 1	8 3	28 9	8 26	1 16	
F 20	21 23	23 34	3 15	25 47	2 22	16 5	1 10	13 52	2 20	1 54	1 14	15 44	2 20	19 29	0 38	22 27	1 1	15 2	7 51	8 3	8 4	28 8	8 29	1 16	
S 21	21 33	18 55	2 12	25 48	2 20	16 28	1 8	13 46	2 22	1 57	1 14	15 43	2 20	19 28	0 38	22 27	1 1	15 2	7 51	8 5	8 5	28 8	8 31	1 16	
S 22	21 43	13 21	1 2	25 48	2 18	16 50	1 6	13 39	2 23	2 1	1 14	15 42	2 20	19 28	0 38	22 27	1 1	15 2	7 51	8 5	8 7	28 7	8 34	1 16	
M23	21 53	7 18	0n 9	25 46	2 15	17 11	1 4	13 33	2 25	2 4	1 14	15 41	2 19	19 27	0 38	22 27	1 1	15 2	7 51	8 5	8 8	28 6	8 36	1 16	
T 24	22 2	1 6	1 18	25 43	2 11	17 33	1 2	13 27	2 27	2 7	1 14	15 40	2 19	19 27	0 38	22 28	1 1	15 2	7 51	8 5	8 9	28 6	8 38	1 15	
W25	22 11	5n 1	2 21	25 38	2 7	17 53	1 0	13 21	2 28	2 11	1 15	15 39	2 19	19 26	0 38	22 28	1 1	15 2	7 51	8 6	8 10	28 5	8 41	1 15	
T 26	22 19	10 48	3 16	25 31	2 2	18 14	0 58	13 15	2 30	2 14	1 15	15 38	2 19	19 25	0 38	22 28	1 1	15 2	7 51	8 8	8 11	28 5	8 43	1 15	
F 27	22 27	16 4	4 0	25 23	1 55	18 33	0 56	13 10	2 32	2 17	1 15	15 37	2 19	19 25	0 38	22 28	1 1	15 1	7 51	8 10	8 13	28 4	8 45	1 15	
S 28	22 34	20 36	4 33	25 14	1 48	18 53	0 54	13 4	2 33	2 21	1 15	15 36	2 19	19 24	0 38	22 28	1 1	15 1	7 51	8 14	8 14	28 3	8 48	1 15	
S 29	22 41	24 14	4 53	25 3	1 39	19 11	0 51	12 59	2 35	2 24	1 15	15 35	2 18	19 24	0 38	22 28	1 1	15 1	7 51	8 19	8 15	28 3	8 50	1 14	
M30	22s48	26n46	4n59	24s52	1s30	19s30	0n49	12n54	2n37	2s27	1n16	15n34	2s18	19s23	0s38	22n28	1s 1	15n 1	7s51	8s25	8s16	28n 2	8s52	1s14	

ASTRODIENST EPHEMERIS for the year 1411

geocentric

DECEMBER 1411 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	5 10 52	17°12'22"	20°11'45"	6°58'58"	1°38'38"	3°15'15"	9°12'12"	19°54'54"	6°17'17"	3°10'10"	16°30'30"	8°15'15"	8°49'49"	5°14'14"	19°47'47"	T 1
W 2	5 14 49	18°13'28"	2°39'39"	7°31'31"	2°53'53"	3°33'33"	9°20'20"	19°50'50"	6°20'20"	3°59'59"	16°29'29"	8°1'1'	8°46'46"	5°21'21"	19°53'53"	W 2
T 3	5 18 45	19°14'34"	14°30'30"	7°55'55"	4°9'9"	3°50'50"	9°28'28"	19°46'46"	6°23'23"	3°7'7"	16°28'28"	7°49'49"	8°43'43"	5°27'27"	19°59'59"	T 3
F 4	5 22 42	20°15'41"	26°20'20"	8°9'9"	5°24'24"	4°7'7"	9°36'36"	19°42'42"	6°25'25"	3°5'5"	16°26'26"	7°39'39"	8°40'40"	5°34'34"	20°5'5"	F 4
S 5	5 26 38	21°16'48"	8°11'11"	8°R14	6°39'39"	4°24'24"	9°43'43"	19°39'39"	6°28'28"	3°4'4"	16°25'25"	7°32'32"	8°36'36"	5°41'41"	20°11'11"	S 5
S 6	5 30 35	22°17'56"	20°7'7"	8°7'7"	7°55'55"	4°40'40"	9°51'51"	19°35'35"	6°31'31"	3°2'2"	16°24'24"	7°29'29"	8°33'33"	5°47'47"	20°17'17"	S 6
M 7	5 34 31	23°19'05"	2°13'13"	7°49'49"	9°10'10"	4°56'56"	9°58'58"	19°31'31"	6°33'33"	3°0'0"	16°23'23"	7°D27	8°30'30"	5°54'54"	20°22'22"	M 7
T 8	5 38 28	24°20'14"	14°31'31"	7°20'20"	10°26'26"	5°11'11"	10°6'6"	19°28'28"	6°36'36"	2°59'59"	16°22'22"	7°28'28"	8°27'27"	6°1'1'	20°28'28"	T 8
W 9	5 42 24	25°21'24"	27°9'9"	6°38'38"	11°41'41"	5°26'26"	10°13'13"	19°24'24"	6°39'39"	2°57'57"	16°20'20"	7°R28	8°24'24"	6°8'8"	20°34'34"	W 9
T 10	5 46 21	26°22'34"	10°10'10"	5°45'45"	12°56'56"	5°40'40"	10°20'20"	19°21'21"	6°42'42"	2°55'55"	16°19'19"	7°27'27"	8°21'21"	6°14'14"	20°39'39"	T 10
F 11	5 50 18	27°23'45"	23°39'39"	4°43'43"	14°12'12"	5°53'53"	10°27'27"	19°17'17"	6°45'45"	2°54'54"	16°18'18"	7°24'24"	8°17'17"	6°21'21"	20°44'44"	F 11
S 12	5 54 14	28°24'57"	7°18'38"	3°32'32"	15°27'27"	6°6'6"	10°33'33"	19°14'14"	6°48'48"	2°52'52"	16°17'17"	7°19'19"	8°14'14"	6°28'28"	20°50'50"	S 12
S 13	5 58 11	29°26'09"	22°6'6"	2°15'15"	16°43'43"	6°19'19"	10°40'40"	19°11'11"	6°51'51"	2°50'50"	16°16'16"	7°11'11"	8°11'11"	6°34'34"	20°55'55"	S 13
M14	6 2 7	0°27'21"	7°1'1'	0°54'54"	17°58'58"	6°31'31"	10°46'46"	19°8'8"	6°53'53"	2°49'49"	16°15'15"	7°1'1'	8°8'8"	6°41'41"	21°0'0"	M14
T 15	6 6 4	1°28'34"	22°14'14"	29°33'33"	19°14'14"	6°42'42"	10°53'53"	19°5'5"	6°56'56"	2°47'47"	16°14'14"	6°51'51"	8°5'5"	6°48'48"	21°5'5"	T 15
W16	6 10 0	2°29'46"	7°35'35"	28°13'13"	20°29'29"	6°53'53"	10°59'59"	19°2'2"	6°59'59"	2°45'45"	16°12'12"	6°41'41"	8°1'1'	6°55'55"	21°9'9"	W16
T 17	6 13 57	3°30'59"	22°52'52"	26°57'57"	21°44'44"	7°4'4"	11°5'5"	18°59'59"	7°3'3"	2°43'43"	16°11'11"	6°33'33"	7°58'58"	7°1'1'	21°14'14"	T 17
F 18	6 17 54	4°32'12"	7°35'35"	25°47'47"	23°0'0"	7°13'13"	11°11'11"	18°56'56"	7°6'6"	2°42'42"	16°10'10"	6°27'27"	7°55'55"	7°8'8"	21°19'19"	F 18
S 19	6 21 50	5°33'24"	22°33'33"	24°46'46"	24°15'15"	7°22'22"	11°16'16"	18°54'54"	7°9'9"	2°40'40"	16°9'9"	6°24'24"	7°52'52"	7°15'15"	21°23'23"	S 19
S 20	6 25 47	6°34'35"	6°46'46"	23°53'53"	25°31'31"	7°31'31"	11°22'22"	18°51'51"	7°12'12"	2°38'38"	16°8'8"	6°D23	7°49'49"	7°21'21"	21°28'28"	S 20
M21	6 29 43	7°35'47"	20°30'30"	23°10'10"	26°46'46"	7°38'38"	11°27'27"	18°49'49"	7°15'15"	2°37'37"	16°7'7"	6°23'23"	7°46'46"	7°28'28"	21°32'32"	M21
T 22	6 33 40	8°36'57"	3°48'48"	22°38'38"	28°2'2"	7°45'45"	11°32'32"	18°47'47"	7°18'18"	2°35'35"	16°6'6"	6°R24	7°42'42"	7°35'35"	21°37'37"	T 22
W23	6 37 36	9°38'08"	16°42'42"	22°15'15"	29°17'17"	7°52'52"	11°37'37"	18°44'44"	7°21'21"	2°33'33"	16°5'5"	6°24'24"	7°39'39"	7°42'42"	21°41'41"	W23
T 24	6 41 33	10°39'17"	29°18'18"	22°2'2"	0°32'32"	7°58'58"	11°42'42"	18°42'42"	7°24'24"	2°32'32"	16°4'4"	6°22'22"	7°36'36"	7°48'48"	21°45'45"	T 24
F 25	6 45 29	11°40'27"	11°38'38"	21°D59	1°48'48"	8°3'3"	11°47'47"	18°40'40"	7°28'28"	2°30'30"	16°3'3"	6°18'18"	7°33'33"	7°55'55"	21°49'49"	F 25
S 26	6 49 26	12°41'35"	23°47'47"	22°4'4"	3°3'3"	8°7'7"	11°51'51"	18°38'38"	7°31'31"	2°28'28"	16°2'2"	6°11'11"	7°30'30"	8°2'2"	21°52'52"	S 26
S 27	6 53 23	13°42'44"	5°48'48"	22°17'17"	4°19'19"	8°11'11"	11°56'56"	18°37'37"	7°34'34"	2°27'27"	16°1'1"	6°2'2"	7°27'27"	8°8'8"	21°56'56"	S 27
M28	6 57 19	14°43'51"	17°43'43"	22°37'37"	5°34'34"	8°14'14"	12°0'0"	18°35'35"	7°37'37"	2°25'25"	16°0'0"	5°52'52"	7°23'23"	8°15'15"	22°0'0"	M28
T 29	7 1 16	15°44'58"	29°36'36"	23°4'4"	6°49'49"	8°17'17"	12°4'4"	18°33'33"	7°41'41"	2°23'23"	15°59'59"	5°42'42"	7°20'20"	8°22'22"	22°3'3"	T 29
W30	7 5 12	16°46'05"	11°27'27"	23°37'37"	8°5'5"	8°18'18"	12°8'8"	18°32'32"	7°44'44"	2°22'22"	15°58'58"	5°32'32"	7°17'17"	8°28'28"	22°7'7"	W30
T 31	7 9 9	17°47'11"	23°19'19"	24°15'15"	9°20'20"	8°19'19"	12°11'11"	18°31'31"	7°44'44"	2°20'20"	15°57'57"	5°31'31"	7°14'14"	8°23'23"	22°10'10"	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
T 1	22s54	28n 3	4n52	24s39	1s19	19s47	0n47	12n48	2n38	2s30	1n16	15n33	2s18	19s22	0s38	22n28
W 2	23 0	28 2	4 33	24 25	1 7	20 4	0 45	12 43	2 40	2 33	1 16	15 33	2 18	19 22	0 38	22 28
T 3	23 5	26 43	4 1	24 10	0 53	20 21	0 43	12 39	2 42	2 36	1 16	15 32	2 18	19 21	0 38	22 28
F 4	23 10	24 13	3 19	23 54	0 39	20 37	0 40	12 34	2 44	2 39	1 16	15 31	2 17	19 20	0 38	22 28
S 5	23 14	20 40	2 28	23 38	0 23	20 52	0 38	12 30	2 45	2 41	1 17	15 30	2 17	19 20	0 38	22 28
S 6	23 18	16 15	1 31	23 21	0 5	21 7	0 36	12 25	2 47	2 44	1 17	15 29	2 17	19 19	0 38	22 28
M 7	23 21	11 9	0 28	23 4	0n13	21 21	0 33	12 21	2 49	2 47	1 17	15 28	2 17	19 18	0 38	22 28
T 8	23 24	5 32	0s37	22 47	0 32	21 35	0 31	12 17	2 51	2 50	1 17	15 28	2 17	19 17	0 38	22 28
W 9	23 26	0s26	1 43	22 30	0 52	21 48	0 28	12 14	2 53	2 52	1 17	15 27	2 16	19 17	0 38	22 28
T 10	23 28	6 33	2 44	22 12	1 11	22 0	0 26	12 10	2 55	2 55	1 18	15 26	2 16	19 16	0 38	22 28
F 11	23 30	12 36	3 39	21 55	1 31	22 11	0 24	12 7	2 57	2 57	1 18	15 26	2 16	19 15	0 38	22 28
S 12	23 31	18 15	4 23	21 38	1 50	22 22	0 21	12 4	2 58	3 0	1 18	15 25	2 16	19 14	0 38	22 28
S 13	23 31	23 3	4 52	21 22	2 8	22 33	0 19	12 1	3 0	3 2	1 18	15 24	2 15	19 14	0 38	22 28
M14	23 31	26 31	5 3	21 6	2 24	22 42	0 16	11 58	3 2	3 4	1 19	15 24	2 15	19 13	0 38	22 28
T 15	23 31	28 9	4 52	20 52	2 39	22 51	0 14	11 56	3 4	3 7	1 19	15 23	2 15	19 12	0 37	22 28
W16	23 30	27 38	4 20	20 39	2 51	22 57	0 11	11 53	3 6	3 9	1 19	15 23	2 15	19 11	0 37	22 28
T 17	23 30	28 1	3 30	20 28	3 1	23 9	0 9	11 51	3 8	3 11	1 19	15 22	2 14	19 11	0 37	22 28
F 18	23 26	20 42	2 26	20 19	3 8	23 14	0 6	11 50	3 10	3 13	1 20	15 22	2 14	19 10	0 37	22 28
S 19	23 24	15 12	1 13	20 12	3 13	23 20	0 4	11 48	3 12	3 15	1 20	15 21	2 14	19 9	0 37	22 29
S 20	23 21	9 2	0n 2	20 8	3 15	23 25	0 1	11 47	3 14	3 17	1 20	15 21	2 14	19 8	0 37	22 29
M21	23 18	2 38	1 15	20 5	3 15	23 30	0s 1	11 46	3 16	3 19	1 20	15 20	2 13	19 7	0 37	22 29
T 22	23 14	3n40	2 21	20 5	3 14	23 34	0 3	11 45	3 18	3 21	1 21	15 20	2 13	19 7	0 37	22 29
W23	23 10	9 38	3 18	20 7	3 11	23 37	0 6	11 44	3 20	3 22	1 21	15 20	2 13	19 6	0 37	22 29
T 24	23 5	15 4	4 4	20 11	3 6	23 39	0 8	11 44	3 22	3 24	1 21	15 19	2 13	19 5	0 37	22 29
F 25	23 0	19 46	4 38	20 16	3 0	23 41	0 11	11 44	3 24	3 26	1 21	15 19	2 12	19 4	0 37	22 29
S 26	22 55	23 36	4 58	20 24	2 54	23 42	0 13	11 44	3 26	3 27	1 22	15 19	2 12	19 3	0 37	22 29
S 27	22 49	26 21	5 5	20 32	2 46	23 42	0 16	11 45	3 28	3 29	1 22	15 18	2 12	19 2	0 37	22 29
M28	22 42	27 55	4 59	20 41	2 38	23 42	0 18	11 45	3 30	3 30	1 22	15 18	2 12	19 2	0 37	22 29
T 29	22 35	28 11	4 40	20 51	2 29	23 41	0 20	11 46	3 32	3 31	1 22	15 18	2 11	19 1	0 37	22 29
W30	22 28	27 9	4 8	21 2	2 20	23 39	0 23	11 48	3 34	3 32	1 23	15 18	2 11	19 0	0 37	22 29
T 31	22s20	24n53	3n26	21s13	2n11	23s36	0s25	11n49	3n36	3s34	1n23	15n18	2s11	18s59	0s37	22n29

Julian Day Number = 2236759.5, Delta T = 07m34s

Ecliptic obliquity = 23°31'04", Nutation = 0°00'05", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°32'11", Lahiri = 15°39'12" Julian Calendar 1 Dec. 1411 == Greg. Calendar 10 Dec. 1411