



Astrodienst Ephemeris Tables for the year 1418

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 1418

geocentric

JANUARY 1418 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	7 15 15	19°21'11	5♈45	1°R36	7♋31	13♈29	23♈36	18°R33	0♈41	16°R 2	22°R19	12°R11	11♈ 6	12♈54	2♈46	S 1
S 2	7 19 12	20°22'18	19°11	1♈23	8°42	14° 5	23°46	18°R30	0°43	16°R 0	22°R18	12♈11	11° 3	13° 1	2°52	S 2
M 3	7 23 8	21°23'24	2♈25	1°D18	9°53	14°42	23°57	18°25	0°46	15°58	22°17	12° 9	11° 0	13° 8	2°58	M 3
T 4	7 27 5	22°24'30	15°26	1°21	11° 4	15°18	24° 7	18°21	0°49	15°57	22°16	12° 5	10°57	13°14	3° 3	T 4
W 5	7 31 1	23°25'35	28°17	1°32	12°16	15°55	24°17	18°17	0°52	15°55	22°15	11°57	10°53	13°21	3° 9	W 5
T 6	7 34 58	24°26'39	10♈57	1°50	13°27	16°31	24°28	18°13	0°55	15°53	22°14	11°47	10°50	13°28	3°15	T 6
F 7	7 38 54	25°27'43	23°27	2°15	14°39	17° 7	24°38	18° 9	0°58	15°51	22°13	11°34	10°47	13°34	3°21	F 7
S 8	7 42 51	26°28'46	5♈47	2°46	15°51	17°44	24°49	18° 4	1° 1	15°50	22°12	11°20	10°44	13°41	3°26	S 8
S 9	7 46 47	27°29'48	17°57	3°22	17° 2	18°20	25° 0	18° 0	1° 4	15°48	22°11	11° 6	10°41	13°48	3°32	S 9
M10	7 50 44	28°30'49	29°58	4° 2	18°14	18°56	25°10	17°56	1° 7	15°47	22°10	10°53	10°38	13°54	3°38	M10
T 11	7 54 41	29°31'49	11♈53	4°48	19°26	19°33	25°21	17°51	1°10	15°45	22° 9	10°42	10°34	14° 1	3°43	T 11
W12	7 58 37	0♈32'47	23°42	5°37	20°38	20° 9	25°33	17°47	1°13	15°43	22° 8	10°34	10°31	14° 8	3°49	W12
T 13	8 2 34	1°33'45	5♈31	6°30	21°50	20°45	25°44	17°42	1°16	15°42	22° 7	10°29	10°28	14°15	3°55	T 13
F 14	8 6 30	2°34'41	17°23	7°26	23° 2	21°21	25°55	17°38	1°19	15°40	22° 7	10°26	10°25	14°21	4° 0	F 14
S 15	8 10 27	3°35'36	29°23	8°25	24°14	21°57	26° 7	17°33	1°22	15°38	22° 6	10°25	10°22	14°28	4° 6	S 15
S 16	8 14 23	4°36'30	11♈37	9°27	25°26	22°33	26°18	17°28	1°25	15°37	22° 5	10°25	10°18	14°35	4°11	S 16
M17	8 18 20	5°37'22	24°10	10°32	26°38	23° 9	26°30	17°24	1°29	15°35	22° 4	10°25	10°15	14°41	4°16	M17
T 18	8 22 16	6°38'13	7♈ 8	11°39	27°51	23°45	26°41	17°19	1°32	15°34	22° 3	10°23	10°12	14°48	4°22	T 18
W19	8 26 13	7°39'02	20°33	12°48	29° 3	24°21	26°53	17°14	1°35	15°32	22° 2	10°18	10° 9	14°55	4°27	W19
T 20	8 30 10	8°39'50	4♈28	13°59	0♈15	24°57	27° 5	17° 9	1°38	15°31	22° 2	10°11	10° 6	15° 1	4°32	T 20
F 21	8 34 6	9°40'36	18°52	15°12	1°28	25°33	27°17	17° 4	1°41	15°29	22° 1	10° 1	10° 3	15° 8	4°38	F 21
S 22	8 38 3	10°41'22	3♈39	16°26	2°40	26° 9	27°29	17° 0	1°45	15°28	22° 0	9°50	9°59	15°15	4°43	S 22
S 23	8 41 59	11°42'05	18°41	17°42	3°53	26°44	27°41	16°55	1°48	15°26	21°59	9°38	9°56	15°22	4°48	S 23
M24	8 45 56	12°42'47	3♈50	19° 0	5° 5	27°20	27°53	16°50	1°51	15°25	21°59	9°27	9°53	15°28	4°53	M24
T 25	8 49 52	13°43'28	18°54	20°19	6°18	27°56	28° 6	16°45	1°55	15°23	21°58	9°18	9°50	15°35	4°58	T 25
W26	8 53 49	14°44'08	3♈43	21°39	7°30	28°31	28°18	16°40	1°58	15°22	21°57	9°12	9°47	15°42	5° 3	W26
T 27	8 57 45	15°44'47	18°13	23° 0	8°43	29° 7	28°31	16°35	2° 1	15°20	21°57	9° 8	9°44	15°48	5° 8	T 27
F 28	9 1 42	16°45'24	2♈21	24°23	9°56	29°42	28°43	16°30	2° 5	15°19	21°56	9° 7	9°40	15°55	5°13	F 28
S 29	9 5 39	17°46'01	16° 4	25°47	11° 8	0♈18	28°56	16°26	2° 8	15°17	21°55	9° 7	9°37	16° 2	5°18	S 29
S 30	9 9 35	18°46'36	29°27	27°12	12°21	0°53	29° 8	16°21	2°11	15°16	21°55	9° 7	9°34	16° 8	5°23	S 30
M31	9 13 32	19°47'10	12♈30	28♈38	13♈34	1♈28	29♈21	16°R16	2°15	15°R15	21°R54	9♈ 5	9♈31	16°R15	5♈28	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂	♂	♂	♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	22s 7	14s 1	0s34	20s18	3n12	19s26	2n14	14s59	1n 0	3s41	1s15	16n31	1n16	11s57	0s44	21n56	0s37	17n16	6s 2	15s32	15s12	2s42	17s38	5n51
S 2	21 58	16 59	0n37	20 25	3 5	19 39	2 11	15 10	0 59	3 37	1 15	16 32	1 16	11 56	0 44	21 56	0 37	17 16	6 2	15 32	15 11	2 39	17 37	5 52
M 3	21 48	18 59	1 45	20 33	2 58	19 53	2 9	15 22	0 59	3 33	1 14	16 33	1 16	11 55	0 44	21 56	0 37	17 16	6 1	15 32	15 10	2 37	17 37	5 52
T 4	21 39	19 57	2 47	20 41	2 50	20 5	2 6	15 33	0 58	3 29	1 14	16 35	1 16	11 54	0 44	21 56	0 37	17 16	6 1	15 30	15 9	2 35	17 37	5 52
W 5	21 28	19 52	3 39	20 50	2 40	20 17	2 4	15 44	0 58	3 25	1 14	16 36	1 16	11 53	0 44	21 57	0 37	17 17	6 1	15 28	15 8	2 33	17 36	5 52
T 6	21 18	18 46	4 19	20 59	2 31	20 29	2 1	15 55	0 57	3 20	1 14	16 38	1 17	11 52	0 44	21 57	0 37	17 17	6 1	15 25	15 7	2 31	17 36	5 53
F 7	21 7	16 46	4 46	21 9	2 21	20 40	1 59	16 5	0 57	3 16	1 14	16 39	1 17	11 51	0 44	21 57	0 37	17 17	6 1	15 21	15 6	2 29	17 36	5 53
S 8	20 55	14 3	4 59	21 18	2 11	20 50	1 56	16 16	0 57	3 11	1 13	16 41	1 17	11 50	0 44	21 57	0 37	17 17	6 1	15 17	15 5	2 27	17 35	5 53
S 9	20 44	10 46	4 58	21 28	2 1	21 0	1 53	16 26	0 56	3 7	1 13	16 42	1 17	11 49	0 44	21 57	0 37	17 17	6 1	15 12	15 4	2 25	17 35	5 53
M10	20 31	7 5	4 44	21 37	1 50	21 9	1 51	16 37	0 56	3 2	1 13	16 44	1 17	11 48	0 44	21 58	0 37	17 17	6 1	15 8	15 3	2 22	17 34	5 54
T 11	20 19	3 9	4 18	21 46	1 40	21 18	1 48	16 47	0 55	2 58	1 13	16 45	1 17	11 47	0 44	21 58	0 37	17 17	6 0	15 5	15 2	2 20	17 34	5 54
W12	20 6	0n52	3 40	21 54	1 30	21 26	1 45	16 57	0 55	2 53	1 13	16 47	1 17	11 46	0 44	21 58	0 37	17 17	6 0	15 2	15 1	2 18	17 34	5 54
T 13	19 52	4 51	2 53	22 2	1 19	21 34	1 42	17 7	0 54	2 49	1 13	16 48	1 18	11 44	0 44	21 58	0 37	17 17	6 0	15 1	15 0	2 16	17 33	5 54
F 14	19 39	8 40	1 59	22 9	1 9	21 41	1 39	17 17	0 54	2 44	1 12	16 50	1 18	11 43	0 44	21 59	0 37	17 17	6 0	15 0	14 59	2 14	17 33	5 55
S 15	19 25	12 12	0 58	22 16	0 59	21 47	1 36	17 27	0 53	2 39	1 12	16 51	1 18	11 42	0 44	21 59	0 37	17 17	6 0	14 59	14 58	2 12	17 32	5 55
S 16	19 10	15 16	0s 6	22 22	0 49	21 53	1 33	17 37	0 53	2 35	1 12	16 53	1 18	11 41	0 44	21 59	0 37	17 17	6 0	14 59	14 57	2 10	17 32	5 55
M17	18 55	17 42	1 12	22 27	0 39	21 58	1 30	17 47	0 52	2 30	1 12	16 54	1 18	11 40	0 44	21 59	0 37	17 18	6 0	14 59	14 56	2 8	17 31	5 56
T 18	18 40	19 20	2 16	22 31	0 29	22 3	1 27	17 56	0 52	2 25	1 12	16 56	1 18	11 39	0 44	21 59	0 37	17 18	5 59	14 59	14 55	2 6	17 31	5 56
W19	18 25	19 56	3 15	22 34	0 20	22 7	1 24	18 5	0 51	2 20	1 12	16 58	1 18	11 38	0 44	22 0	0 37	17 18	5 59	14 57	14 54	2 3	17 30	5 56
T 20	18 9	19 22	4 5	22 36	0 11	22 10	1 20	18 15	0 51	2 15	1 11	16 59	1 18	11 36	0 44	22 0	0 37	17 18	5 59	14 55	14 53	2 1	17 30	5 57
F 21	17 53	17 33	4 40	22 37	0 2	22 13	1 17	18 24	0 50	2 10	1 11	17 1	1 19	11 35	0 44	22 0	0 37	17 18	5 59	14 52	14 52	1 59	17 29	5 57
S 22	17 37	14 34	4 58	22 37	0s 7	22 15	1 14	18 33	0 49	2 5	1 11	17 2	1 19	11 34	0 44	22 0	0 37	17 18	5 59	14 48	14 51	1 57	17 29	5 57
S 23	17 20	10 34	4 56	22 35	0 15	22 17	1 11	18 42	0 49	2 0	1 11	17 4	1 19	11 33	0 44	22 0	0 37	17 18	5 59	14 44	14 50	1 55	17 28	5 58
M24	17 3	5 53	4 34	22 33	0 24	22 18	1 7	18 50	0 48	1 55	1 11	17 6	1 19	11 32	0 44	22 1	0 37	17 18	5 58	14 41	14 49	1 53	17 28	5 58
T 25	16 45	0 51	3 52	22 30	0 32	22 18	1 4	18 59	0 48	1 50	1 11	17 7	1 19	11 30	0 44	22 1	0 37	17 18	5 58	14 38	14 48	1 51	17 27	5 58
W26	16 28	4s10	2 55	22 25	0 39	22 17	1 1	19 8	0 47	1 45	1 11	17 9	1 19	11 29	0 44	22 1	0 37	17 19	5 58	14 36	14 47	1 49	17 27	5 59
T 27	16 10	8 50	1 48	22 19	0 47	22 16	0 58	19 16	0 46	1 40	1 10	17 10	1 19	11 28	0 44	22 1	0 37	17 19	5 58	14 35	14 46	1 47	17 26	5 59
F 28	15 52	12 53	0 36	22 11	0 54	22 14	0 54	19 24	0 46	1 35	1 10	17 12	1 19	11 27	0 44	22 1	0 37	17 19	5 58	14 35	14 45	1 45	17 25	5 59
S 29	15 33	16 7	0n37	22 3	1 1	22 12	0 51	19 32	0 45	1 30	1 10	17 13	1 19	11 26	0 44	22 1	0 37	17 19	5 58	14 35	14 44	1 42	17 25	6 0
S 30	15 15	18 23	1 45	21 53	1 7	22 9	0 48	19 40	0 44	1 25	1 10	17 15	1 19	11 24	0 44	22 2	0 37	17 19	5 58	14 35	14 43	1 40	17 24	6 0
M31	14 55	19s36	2n47	21s42	1s14	22s 5	0n44	19s48	0n44	1s20	1s10	17n16	1n20	11s23	0s44	22n 2	0s37	17n19	5s57	14s34	14s42	1s38	17s24	6n

ASTRODIENST EPHEMERIS for the year 1418

geocentric

FEBRUARY 1418 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	9 17 28	20 ⁴⁷ 42	25 ¹⁸ 18	0 ⁶ 6	14 ⁴⁷ 47	2 ³ 3	29 ³⁴ 34	16 ¹¹ 11	2 ¹⁸ 18	15 ¹³ 13	21 ⁵⁴ 54	9 ¹ 1	9 ¹⁸ 18	16 ²² 22	5 ³³ 33	T 1
W 2	9 21 25	21 ⁴⁸ 14	7 ⁵² 52	1 ³⁴ 34	16 ⁰ 0	2 ³⁹ 39	29 ⁴⁷ 47	16 ⁶ 6	2 ²² 22	15 ¹² 12	21 ⁵³ 53	8 ⁵³ 53	9 ²⁴ 24	16 ²⁹ 29	5 ³⁷ 37	W 2
T 3	9 25 21	22 ⁴⁸ 44	20 ¹⁶ 16	3 ³ 3	17 ¹³ 13	3 ¹⁴ 14	29 ⁵⁹ 59	16 ¹ 1	2 ²⁵ 25	15 ¹¹ 11	21 ⁵³ 53	8 ⁴³ 43	9 ²¹ 21	16 ³⁵ 35	5 ⁴² 42	T 3
F 4	9 29 18	23 ⁴⁹ 12	2 ³¹ 31	4 ³⁴ 34	18 ²⁶ 26	3 ⁴⁹ 49	0 ¹³ 13	15 ⁵⁷ 57	2 ²⁸ 28	15 ¹⁰ 10	21 ⁵² 52	8 ³¹ 31	9 ¹⁸ 18	16 ⁴² 42	5 ⁴⁷ 47	F 4
S 5	9 33 14	24 ⁴⁹ 39	14 ³⁸ 38	6 ⁵ 5	19 ³⁹ 39	4 ²⁴ 24	0 ²⁶ 26	15 ⁵² 52	2 ³² 32	15 ⁸ 8	21 ⁵² 52	8 ¹⁷ 17	9 ¹⁵ 15	16 ⁴⁹ 49	5 ⁵¹ 51	S 5
S 6	9 37 11	25 ⁵⁰ 04	26 ³⁹ 39	7 ³⁷ 37	20 ⁵² 52	4 ⁵⁹ 59	0 ³⁹ 39	15 ⁴⁷ 47	2 ³⁵ 35	15 ⁷ 7	21 ⁵¹ 51	8 ³ 3	9 ¹² 12	16 ⁵⁵ 55	5 ⁵⁶ 56	S 6
M 7	9 41 8	26 ⁵⁰ 27	8 ³⁴ 34	9 ¹¹ 11	22 ⁵ 5	5 ³⁴ 34	0 ⁵² 52	15 ⁴² 42	2 ³⁹ 39	15 ⁶ 6	21 ⁵¹ 51	7 ⁵⁰ 50	9 ⁹ 9	17 ² 2	6 ⁰ 0	M 7
T 8	9 45 4	27 ⁵⁰ 49	20 ²⁵ 25	10 ⁴⁵ 45	23 ¹⁸ 18	6 ⁸ 8	1 ⁶ 6	15 ³⁷ 37	2 ⁴² 42	15 ⁵ 5	21 ⁵⁰ 50	7 ³⁹ 39	9 ⁵ 5	17 ⁹ 9	6 ⁵ 5	T 8
W 9	9 49 1	28 ⁵¹ 09	2 ¹⁴ 14	12 ²⁰ 20	24 ³¹ 31	6 ⁴³ 43	1 ¹⁹ 19	15 ³³ 33	2 ⁴⁶ 46	15 ⁴ 4	21 ⁵⁰ 50	7 ³¹ 31	9 ² 2	17 ¹⁵ 15	6 ⁹ 9	W 9
T 10	9 52 57	29 ⁵¹ 26	14 ³ 3	13 ⁵⁷ 57	25 ⁴⁴ 44	7 ¹⁸ 18	1 ³² 32	15 ²⁸ 28	2 ⁴⁹ 49	15 ² 2	21 ⁵⁰ 50	7 ²⁵ 25	8 ⁵⁹ 59	17 ²² 22	6 ¹³ 13	T 10
F 11	9 56 54	0 ⁵¹ 42	25 ⁵⁵ 55	15 ³⁴ 34	26 ⁵⁷ 57	7 ⁵² 52	1 ⁴⁶ 46	15 ²³ 23	2 ⁵² 52	15 ¹ 1	21 ⁴⁹ 49	7 ²³ 23	8 ⁵⁶ 56	17 ²⁹ 29	6 ¹⁷ 17	F 11
S 12	10 0 50	1 ⁵¹ 56	7 ⁵⁵ 55	17 ¹³ 13	28 ¹⁰ 10	8 ²⁷ 27	1 ⁵⁹ 59	15 ¹⁹ 19	2 ⁵⁶ 56	15 ⁰ 0	21 ⁴⁹ 49	7 ²² 22	8 ⁵³ 53	17 ³⁵ 35	6 ²² 22	S 12
S 13	10 4 47	2 ⁵² 08	20 ⁷ 7	18 ⁵² 52	29 ²³ 23	9 ¹ 1	2 ¹³ 13	15 ¹⁴ 14	2 ⁵⁹ 59	14 ⁵⁹ 59	21 ⁴⁹ 49	7 ²² 22	8 ⁵⁰ 50	17 ⁴² 42	6 ²⁶ 26	S 13
M14	10 8 43	3 ⁵² 18	2 ¹¹ 37	20 ³³ 33	0 ³⁶ 36	9 ³⁵ 35	2 ²⁶ 26	15 ¹⁰ 10	3 ³ 3	14 ⁵⁸ 58	21 ⁴⁸ 48	7 ²³ 23	8 ⁴⁶ 46	17 ⁴⁹ 49	6 ³⁰ 30	M14
T 15	10 12 40	4 ⁵² 25	15 ²⁸ 28	22 ¹⁴ 14	1 ⁴⁹ 49	10 ¹⁰ 10	2 ⁴⁰ 40	15 ⁵ 5	3 ⁶ 6	14 ⁵⁷ 57	21 ⁴⁸ 48	7 ²² 22	8 ⁴³ 43	17 ⁵⁶ 56	6 ³⁴ 34	T 15
W16	10 16 36	5 ⁵² 31	28 ⁴⁷ 47	23 ⁵⁷ 57	3 ² 2	10 ⁴⁴ 44	2 ⁵⁴ 54	15 ¹ 1	3 ¹⁰ 10	14 ⁵⁶ 56	21 ⁴⁸ 48	7 ²⁰ 20	8 ⁴⁰ 40	18 ² 2	6 ³⁷ 37	W16
T 17	10 20 33	6 ⁵² 34	12 ³⁵ 35	25 ⁴⁰ 40	4 ¹⁶ 16	11 ¹⁸ 18	3 ⁷ 7	14 ⁵⁷ 57	3 ¹³ 13	14 ⁵⁵ 55	21 ⁴⁸ 48	7 ¹⁵ 15	8 ³⁷ 37	18 ⁹ 9	6 ⁴¹ 41	T 17
F 18	10 24 30	7 ⁵² 36	26 ⁵³ 53	27 ²⁵ 25	5 ²⁹ 29	11 ⁵² 52	3 ²¹ 21	14 ⁵² 52	3 ¹⁷ 17	14 ⁵⁵ 55	21 ⁴⁷ 47	7 ⁸ 8	8 ³⁴ 34	18 ¹⁶ 16	6 ⁴⁵ 45	F 18
S 19	10 28 26	8 ⁵² 35	11 ³⁸ 38	29 ¹¹ 11	6 ⁴² 42	12 ²⁶ 26	3 ³⁵ 35	14 ⁴⁸ 48	3 ²⁰ 20	14 ⁵⁴ 54	21 ⁴⁷ 47	7 ⁰ 0	8 ³⁰ 30	18 ²² 22	6 ⁴⁹ 49	S 19
S 20	10 32 23	9 ⁵² 31	26 ⁴⁵ 45	0 ⁵⁸ 58	7 ⁵⁵ 55	13 ⁰ 0	3 ⁴⁹ 49	14 ⁴⁴ 44	3 ²³ 23	14 ⁵³ 53	21 ⁴⁷ 47	6 ⁵¹ 51	8 ²⁷ 27	18 ²⁹ 29	6 ⁵² 52	S 20
M21	10 36 19	10 ⁵² 26	12 ¹⁹ 2	2 ⁴⁶ 46	9 ⁸ 8	13 ³³ 33	4 ³ 3	14 ⁴⁰ 40	3 ²⁷ 27	14 ⁵² 52	21 ⁴⁷ 47	6 ⁴² 42	8 ²⁴ 24	18 ³⁶ 36	6 ⁵⁶ 56	M21
T 22	10 40 16	11 ⁵² 19	27 ²⁰ 20	4 ³⁵ 35	10 ²² 22	14 ⁷ 7	4 ¹⁷ 17	14 ³⁶ 36	3 ³⁰ 30	14 ⁵¹ 51	21 ⁴⁷ 47	6 ³⁵ 35	8 ²¹ 21	18 ⁴² 42	7 ⁰ 0	T 22
W23	10 44 12	12 ⁵² 10	12 ²¹ 27	6 ²⁶ 26	11 ³⁵ 35	14 ⁴¹ 41	4 ³¹ 31	14 ³² 32	3 ³⁴ 34	14 ⁵¹ 51	21 ⁴⁷ 47	6 ³¹ 31	8 ¹⁸ 18	18 ⁴⁹ 49	7 ³ 3	W23
T 24	10 48 9	13 ⁵¹ 59	27 ¹⁵ 15	8 ¹⁷ 17	12 ⁴⁸ 48	15 ¹⁴ 14	4 ⁴⁵ 45	14 ²⁸ 28	3 ³⁷ 37	14 ⁵⁰ 50	21 ⁴⁷ 47	6 ²⁹ 29	8 ¹⁵ 15	18 ⁵⁶ 56	7 ⁶ 6	T 24
F 25	10 52 5	14 ⁵¹ 47	11 ³⁸ 38	10 ¹⁰ 10	14 ¹ 1	15 ⁴⁸ 48	4 ⁵⁹ 59	14 ²⁴ 24	3 ⁴⁰ 40	14 ⁴⁹ 49	21 ⁴⁷ 47	6 ²⁸ 28	8 ¹¹ 11	19 ² 2	7 ¹⁰ 10	F 25
S 26	10 56 2	15 ⁵¹ 32	25 ³⁴ 34	12 ⁴ 4	15 ¹⁵ 15	16 ²¹ 21	5 ¹³ 13	14 ²⁰ 20	3 ⁴⁴ 44	14 ⁴⁸ 48	21 ⁴⁷ 47	6 ²⁹ 29	8 ⁸ 8	19 ⁹ 9	7 ¹³ 13	S 26
S 27	10 59 59	16 ⁵¹ 17	9 ³ 3	13 ⁵⁹ 59	16 ²⁸ 28	16 ⁵⁴ 54	5 ²⁷ 27	14 ¹⁶ 16	3 ⁴⁷ 47	14 ⁴⁸ 48	21 ⁴⁷ 47	6 ³⁰ 30	8 ⁵ 5	19 ¹⁶ 16	7 ¹⁶ 16	S 27
M28	11 3 55	17 ⁵⁰ 59	22 ³ 9	15 ⁵⁵ 55	17 ⁴¹ 41	17 ²⁷ 27	5 ⁴¹ 41	14 ¹³ 13	3 ⁵¹ 51	14 ⁴⁷ 47	21 ⁴⁷ 47	6 ³⁰ 30	8 ¹¹ 11	19 ¹⁶ 16	7 ¹⁹ 19	M28

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	14s36	19s47	3n38	21s29	1s20	22s 1	0n41	19s56	0n43	1s14	1s10	17n18	1n20	11s22	0s44	22n 2	0s37	17n19	5s57	14s33	14s41	1s36	17s23	6n 1			
W 2	14 17	18 59	4 18	21 16	1 25	21 56	0 38	20 4	0 42	1 9	1 10	17 20	1 20	11 21	0 44	22 2	0 37	17 19	5 57	14 30	14 40	1 34	17 23	6 1			
T 3	13 57	17 16	4 46	21 0	1 31	21 50	0 34	20 11	0 42	1 4	1 9	17 21	1 20	11 19	0 44	22 2	0 37	17 20	5 57	14 27	14 39	1 32	17 22	6 2			
F 4	13 37	14 48	4 59	20 44	1 36	21 44	0 31	20 19	0 41	0 58	1 9	17 23	1 20	11 18	0 44	22 2	0 37	17 20	5 57	14 23	14 38	1 30	17 21	6 2			
S 5	13 17	11 43	4 59	20 26	1 41	21 37	0 28	20 26	0 40	0 53	1 9	17 24	1 20	11 17	0 44	22 3	0 37	17 20	5 56	14 19	14 37	1 28	17 21	6 3			
S 6	12 57	8 12	4 45	20 7	1 45	21 29	0 24	20 33	0 39	0 48	1 9	17 26	1 20	11 16	0 44	22 3	0 37	17 20	5 56	14 14	14 36	1 26	17 20	6 3			
M 7	12 36	4 22	4 19	19 46	1 49	21 21	0 21	20 40	0 39	0 42	1 9	17 27	1 20	11 14	0 44	22 3	0 37	17 20	5 56	14 10	14 35	1 24	17 19	6 4			
T 8	12 15	0 24	3 42	19 24	1 53	21 12	0 18	20 47	0 38	0 37	1 9	17 29	1 20	11 13	0 44	22 3	0 37	17 20	5 56	14 6	14 34	1 21	17 19	6 4			
W 9	11 55	3n34	2 55	19 0	1 56	21 3	0 15	20 53	0 37	0 32	1 9	17 30	1 20	11 12	0 44	22 3	0 37	17 20	5 56	14 4	14 33	1 19	17 18	6 4			
T 10	11 33	7 25	2 1	18 36	1 59	20 53	0 11	21 0	0 36	0 26	1 9	17 31	1 20	11 11	0 44	22 3	0 37	17 21	5 56	14 2	14 32	1 17	17 17	6 5			
F 11	11 12	10 59	1 1	18 9	2 2	20 42	0 8	21 6	0 35	0 21	1 9	17 33	1 20	11 10	0 44	22 4	0 36	17 21	5 55	14 1	14 31	1 15	17 17	6 5			
S 12	10 51	14 9	0s 3	17 41	2 4	20 31	0 5	21 13	0 35	0 15	1 8	17 34	1 20	11 8	0 44	22 4	0 36	17 21	5 55	14 1	14 30	1 13	17 16	6 6			
S 13	10 29	16 45	1 8	17 12	2 6	20 19	0 2	21 19	0 34	0 10	1 8	17 36	1 20	11 7	0 44	22 4	0 36	17 21	5 55	14 1	14 29	1 11	17 16	6 6			
M14	10 7	18 37	2 11	16 42	2 7	20 6	0s 1	21 25	0 33	0 4	1 8	17 37	1 20	11 6	0 44	22 4	0 36	17 21	5 55	14 1	14 28	1 9	17 15	6 7			
T 15	9 45	19 35	3 9	16 10	2 8	19 53	0 4	21 31	0 32	0n 1	1 8	17 38	1 20	11 5	0 44	22 4	0 36	17 21	5 55	14 1	14 27	1 7	17 14	6 7			
W16	9 23	19 31	3 59	15 36	2 9	19 40	0 8	21 37	0 31	0 7	1 8	17 40	1 21	11 3	0 44	22 4	0 36	17 22	5 55	14 0	14 26	1 5	17 14	6 8			
T 17	9 1	18 19	4 37	15 1	2 9	19 25	0 11	21 42	0 30	0 12	1 8	17 41	1 21	11 2	0 44	22 4	0 36	17 22	5 54	13 58	14 25	1 3	17 13	6 8			
F 18	8 38	15 56	5 0	14 25	2 9	19 11	0 14	21 48	0 29	0 18	1 8	17 42	1 21	11 1	0 44	22 4	0 36	17 22	5 54	13 56	14 24	1 1	17 12	6 9			
S 19	8 16	12 29	5 4	13 47	2 8	18 55	0 17	21 53	0 28	0 24	1 8	17 44	1 21	11 0	0 44	22 5	0 36	17 22	5 54	13 53	14 23	0 58	17 11	6 9			
S 20	7 53	8 8	4 47	13 8	2 7	18 39	0 19	21 59	0 27	0 29	1 8	17 45	1 21	10 58	0 44	22 5	0 36	17 22	5 54	13 50	14 22	0 56	17 11	6 10			
M21	7 31	3 13	4 9	12 28	2 5	18 23	0 22	22 4	0 26	0 35	1 8	17 46	1 21	10 57	0 44	22 5	0 36	17 22	5 54	13 48	14 21	0 54	17 10	6 10			
T 22	7 8	1s54	3 14	11 46	2 3	18 6	0 25	22 9	0 25	0 40	1 8	17 47	1 21	10 56	0 44	22 5	0 36	17 23	5 53	13 45	14 20	0 52	17 9	6 11			
W23	6 45	6 51	2 5	11 2	2 0	17 49	0 28	22 14	0 24	0 46	1 7	17 49	1 21	10 55	0 44	22 5	0 36	17 23	5 53	13 44	14 19	0 50	17 9	6 11			
T 24	6 22	11 18	0 49	10 18	1 57	17 31	0 31	22 19	0 23	0 52	1 7	17 50	1 21	10 53	0 44	22 5	0 36	17 23	5 53	13 43	14 18	0 48	17 8	6 12			
F 25	5 59	14 56	0n28	9 32	1 53	17 12	0 33	22 23	0 22	0 57	1 7	17 51	1 21	10 52	0 44	22 5	0 36	17 23	5 53	13 43	14 17	0 46	17 7	6 12			
S 26	5 36	17 34	1 41	8 44	1 49	16 53	0 36	22 28	0 21	1 3	1 7	17 52	1 21	10 51	0 44	22 5	0 36	17 23	5 53	13 43	14 16	0 44	17 7	6 13			
S 27	5 12	19 8	2 46	7 56	1 44	16 34	0 39	22 32	0 20	1 9	1 7	17 53	1 21	10 50	0 44	22 5	0 36	17 24	5 53	13 44	14 15	0 42	17 6	6 13			
M28	4s49	19s36	3n41	7s 6	1s39	16s14	0s41	22s36	0n19	1n14	1s 7	17n54	1n21	10s48	0s44	22n 6	0s36	17n24	5s52	13s44	14s14	0s40	17s 5	6n14			

ASTRODIENST EPHEMERIS for the year 1418

geocentric

MARCH 1418 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	11 7 52	18°50'40	4°35'54	17°52'52	18°55'55	18°57'00	5°57'55	14°R 9	3°57'54	14°R47	21°II47	6°R29	7°M59	19°K29	7°Z22	T 1
W 2	11 11 48	19°50'18	17°22'22	19°50'20	20°8'8	18°33'33	6°9'9	14°Q 6	3°57'57	14°Q46	21°47	6°M25	7°55'55	19°36'36	7°25'25	W 2
T 3	11 15 45	20°49'55	29°37'37	21°49'21	21°22'22	19°6'6	6°24'24	14°2'2	4°1'1	14°46	21°47	6°20'20	7°52'52	19°43'43	7°28'28	T 3
F 4	11 19 41	21°49'31	11°33'33	23°49'23	22°35'35	19°38'38	6°38'38	13°59'59	4°4'4	14°45	21°47	6°13'13	7°49'49	19°49'49	7°31'31	F 4
S 5	11 23 38	22°49'04	23°41'41	25°49'25	23°48'48	20°11'11	6°52'52	13°56'56	4°7'7	14°45	21°47	6°4'4	7°46'46	19°56'56	7°33'33	S 5
S 6	11 27 34	23°48'35	5°K34	27°50'25	25°2'2	20°43'43	7°6'6	13°53'53	4°11'11	14°44	21°48	5°56'56	7°43'43	20°3'3	7°36'36	S 6
M 7	11 31 31	24°48'05	17°25'25	29°52'26	26°15'15	21°15'15	7°21'21	13°49'49	4°14'14	14°44	21°48	5°48'48	7°40'40	20°9'9	7°39'39	M 7
T 8	11 35 28	25°47'32	29°14'14	1°Y53	27°29'27	21°47'21	7°35'35	13°46'46	4°17'17	14°44	21°48	5°42'42	7°36'36	20°16'16	7°41'41	T 8
W 9	11 39 24	26°46'57	11°Y 4	3°55'55	28°42'28	22°19'22	7°49'49	13°44'44	4°20'20	14°43	21°48	5°37'37	7°33'33	20°23'23	7°43'43	W 9
T 10	11 43 21	27°46'20	22°57'57	5°56'56	29°55'29	22°51'22	8°4'4	13°41'41	4°24'24	14°43	21°49	5°34'34	7°30'30	20°29'29	7°46'46	T 10
F 11	11 47 17	28°45'41	4°B55	7°57'57	1°K 9	23°23'23	8°18'18	13°38'38	4°27'27	14°43	21°49	5°D33	7°27'27	20°36'36	7°48'48	F 11
S 12	11 51 14	29°45'00	17°1'1	9°57'57	2°22'22	23°55'55	8°33'33	13°35'35	4°30'30	14°43	21°49	5°34'34	7°24'24	20°43'43	7°50'50	S 12
S 13	11 55 10	0°Y44'16	29°18'18	11°55'55	3°36'36	24°26'26	8°47'47	13°33'33	4°33'33	14°42	21°50	5°35'35	7°21'21	20°49'49	7°52'52	S 13
M14	11 59 7	1°43'30	11°II50	13°52'52	4°49'49	24°57'57	9°1'1	13°30'30	4°36'36	14°42	21°50	5°37'37	7°17'17	20°56'56	7°54'54	M14
T 15	12 3 3	2°42'42	24°41'41	15°47'47	6°3'3	25°28'28	9°16'16	13°28'28	4°40'40	14°42	21°50	5°38'38	7°14'14	21°3'3	7°56'56	T 15
W16	12 7 0	3°41'52	7°Q55	17°39'39	7°16'16	25°59'59	9°30'30	13°26'26	4°43'43	14°42	21°51	5°R38	7°11'11	21°10'10	7°58'58	W16
T 17	12 10 56	4°40'59	21°34'34	19°29'29	8°29'29	26°30'30	9°45'45	13°24'24	4°46'46	14°42	21°51	5°37'37	7°8'8	21°16'16	8°0'0	T 17
F 18	12 14 53	5°40'03	5°Q40	21°16'16	9°43'43	27°1'1	9°59'59	13°22'22	4°49'49	14°D42	21°52	5°35'35	7°5'5	21°23'23	8°2'2	F 18
S 19	12 18 50	6°39'06	20°11'11	22°58'58	10°56'56	27°31'31	10°14'14	13°20'20	4°52'52	14°42	21°52	5°31'31	7°1'1	21°30'30	8°3'3	S 19
S 20	12 22 46	7°38'06	5°M 4	24°37'37	12°10'10	28°2'2	10°28'28	13°18'18	4°55'55	14°42	21°53	5°27'27	6°58'58	21°36'36	8°5'5	S 20
M21	12 26 43	8°37'04	20°12'12	26°12'26	13°23'23	28°32'32	10°43'43	13°16'16	4°58'58	14°42	21°53	5°24'24	6°55'55	21°43'43	8°6'6	M21
T 22	12 30 39	9°35'59	5°Q25	27°42'27	14°37'37	29°2'2	10°57'57	13°14'14	5°1'1	14°42	21°54	5°21'21	6°52'52	21°50'50	8°8'8	T 22
W23	12 34 36	10°34'53	20°33'33	29°8'8	15°50'50	29°32'32	11°11'11	13°13'13	5°4'4	14°43	21°54	5°19'19	6°49'49	21°56'56	8°9'9	W23
T 24	12 38 32	11°33'44	5°M 27	0°B28	17°3'3	0°Z 1	11°26'26	13°11'11	5°7'7	14°43	21°55	5°D18	6°46'46	22°3'3	8°10'10	T 24
F 25	12 42 29	12°32'34	20°0'0	1°43'43	18°17'17	0°31'31	11°40'40	13°10'10	5°10'10	14°43	21°55	5°19'19	6°42'42	22°10'10	8°11'11	F 25
S 26	12 46 25	13°31'22	4°K 8	2°53'53	19°30'30	1°0'0	11°55'55	13°9'9	5°13'13	14°43	21°56	5°20'20	6°39'39	22°16'16	8°12'12	S 26
S 27	12 50 22	14°30'08	17°48'48	3°57'57	20°44'44	1°29'29	12°9'9	13°8'8	5°16'16	14°44	21°57	5°21'21	6°36'36	22°23'23	8°13'13	S 27
M28	12 54 19	15°28'52	1°Z 2	4°55'55	21°57'57	1°58'58	12°24'24	13°7'7	5°18'18	14°44	21°57	5°23'23	6°33'33	22°30'30	8°14'14	M28
T 29	12 58 15	16°27'35	13°52'52	5°48'48	23°11'11	2°26'26	12°38'38	13°6'6	5°21'21	14°44	21°58	5°R23	6°30'30	22°36'36	8°15'15	T 29
W30	13 2 12	17°26'16	26°22'22	6°34'34	24°24'24	2°55'55	12°53'53	13°5'5	5°24'24	14°45	21°59	5°23'23	6°27'27	22°43'43	8°16'16	W30
T 31	13 6 8	18°Y24'55	8°Q35	7°B15	25°K38	3°Z23	13°Y 7	13°Q 4	5°K27	14°Q45	21°II59	5°M22	6°M23	22°K50	8°Z16	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	4s26	19s 3	4n23	6s14	1s33	15s54	0s44	22s41	0n18	1n20	1s 7	17n55	1n21	10s47	0s44	T 1
W 2	4 2	17 34	4 52	5 22	1 27	15 33	0 46	22 45	0 17	1 26	1 7	17 56	1 21	10 46	0 44	W 2
T 3	3 39	15 18	5 6	4 29	1 20	15 12	0 49	22 48	0 15	1 31	1 7	17 57	1 21	10 45	0 44	T 3
F 4	3 15	12 25	5 7	3 34	1 12	14 50	0 51	22 52	0 14	1 37	1 7	17 58	1 21	10 44	0 44	F 4
S 5	2 52	9 2	4 54	2 39	1 4	14 28	0 53	22 56	0 13	1 43	1 7	17 59	1 21	10 42	0 44	S 5
S 6	2 28	5 20	4 28	1 43	0 46	14 6	0 56	23 0	0 12	1 48	1 7	18 0	1 21	10 41	0 44	S 6
M 7	2 4	1 26	3 51	0 46	0 47	13 43	0 58	23 3	0 10	1 54	1 7	18 1	1 21	10 40	0 44	M 7
T 8	1 41	2n31	3 4	0n11	0 37	13 20	1 0	23 6	0 9	2 0	1 7	18 2	1 21	10 39	0 44	T 8
W 9	1 17	6 23	2 9	1 9	0 27	12 56	1 2	23 10	0 8	2 6	1 7	18 3	1 21	10 38	0 44	W 9
T 10	0 53	10 0	1 8	2 7	0 16	12 32	1 4	23 13	0 7	2 11	1 7	18 3	1 21	10 36	0 44	T 10
F 11	0 30	13 15	0 3	3 5	0 6	12 8	1 6	23 16	0 5	2 17	1 7	18 4	1 21	10 35	0 44	F 11
S 12	0 6	15 58	1s 2	4 2	0n 6	11 43	1 8	23 19	0 4	2 23	1 6	18 5	1 21	10 34	0 44	S 12
S 13	0n18	18 1	2 6	4 59	0 17	11 18	1 10	23 21	0 2	2 28	1 6	18 6	1 21	10 33	0 44	S 13
M14	0 41	19 13	3 5	5 56	0 29	10 53	1 12	23 24	0 1	2 34	1 6	18 6	1 21	10 32	0 44	M14
T 15	1 5	19 28	3 57	6 51	0 41	10 28	1 13	23 27	0s 1	2 40	1 6	18 7	1 21	10 31	0 44	T 15
W16	1 28	18 39	4 38	7 45	0 52	10 2	1 15	23 29	0 2	2 46	1 6	18 8	1 21	10 30	0 44	W16
T 17	1 52	16 46	5 4	8 38	1 4	9 36	1 17	23 31	0 4	2 51	1 6	18 8	1 21	10 28	0 44	T 17
F 18	2 15	13 51	5 13	9 29	1 16	9 9	1 18	23 34	0 5	2 57	1 6	18 9	1 20	10 27	0 44	F 18
S 19	2 39	10 0	5 3	10 19	1 27	8 43	1 19	23 36	0 7	3 3	1 6	18 9	1 20	10 26	0 44	S 19
S 20	3 2	5 27	4 33	11 6	1 39	8 16	1 21	23 38	0 8	3 8	1 6	18 10	1 20	10 25	0 44	S 20
M21	3 26	0 29	3 43	11 51	1 49	7 49	1 22	23 40	0 10	3 14	1 6	18 10	1 20	10 24	0 44	M21
T 22	3 49	4s33	2 37	12 33	2 0	7 22	1 23	23 42	0 11	3 20	1 6	18 11	1 20	10 23	0 44	T 22
W23	4 12	9 17	1 20	13 13	2 9	6 54	1 25	23 44	0 13	3 26	1 6	18 11	1 20	10 22	0 44	W23
T 24	4 35	13 22	0n 1	13 50	2 19	6 26	1 26	23 46	0 15	3 31	1 6	18 12	1 20	10 21	0 44	T 24
F 25	4 58	16 31	1 20	14 24	2 27	5 59	1 27	23 47	0 17	3 37	1 6	18 12	1 20	10 20	0 44	F 25
S 26	5 21	18 33	2 32	14 56	2 35	5 31	1 28	23 49	0 18	3 43	1 6	18 12	1 20	10 19	0 44	S 26
S 27	5 44	19 25	3 33	15 24	2 42	5 2	1 28	23 50	0 20	3 48	1 6	18 12	1 20	10 18	0 44	S 27
M28	6 7	19 10	4 21	15 50	2 47	4 34	1 29	23 52	0 22	3 54	1 6	18 13	1 20	10 17	0 44	M28
T 29	6 29	17 55	4 54	16 12	2 52	4 6	1 30	23 53	0 24	4 0	1 6	18 13	1 20	10 16	0 44	T 29
W30	6 52	15 50	5 12	16 31	2 56	3 37	1 31	23 55	0 26	4 5	1 6	18 13	1 20	10 15	0 44	W30
T 31	7n14	13s 6	5n15	16n47	2n59	3s 8	1s31	23s56	0s28	4n11	1s 6	18n13	1n20	10s14	0s44	T 31

Julian Day Number = 2239041.5, Delta T = 07m24s

Ecliptic obliquity = 23°30'47", Nutation = 0°00'12", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°37'25", Lahiri = 15°44'25" Julian Calendar 1 March 1418 == Greg. Calendar 10 March 1418

ASTRODIENST EPHEMERIS for the year 1418

geocentric

APRIL 1418 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	13 10 5	19°23'33	20°37	7°49	26°51	3°51	13°21	13°R 4	5°30	14°46	22°II 0	5°R20	6°M20	22°K56	8°Z17	F 1
S 2	13 14 1	20°22'08	2°32	8°17	28° 5	4°19	13°36	13°Q 3	5°32	14°46	22° 1	5°M18	6°17	23° 3	8°17	S 2
S 3	13 17 58	21°20'42	14°22	8°40	29°18	4°46	13°50	13° 3	5°35	14°47	22° 2	5°16	6°14	23°10	8°18	S 3
M 4	13 21 54	22°19'15	26°10	8°56	0°Y32	5°14	14° 5	13° 2	5°37	14°47	22° 2	5°14	6°11	23°16	8°18	M 4
T 5	13 25 51	23°17'45	8°Y 1	9° 6	1°45	5°41	14°19	13° 2	5°40	14°48	22° 3	5°12	6° 7	23°23	8°18	T 5
W 6	13 29 48	24°16'13	19°56	9°R10	2°58	6° 7	14°33	13°D 2	5°43	14°48	22° 4	5°11	6° 4	23°30	8°18	W 6
T 7	13 33 44	25°14'40	1°B56	9° 9	4°12	6°34	14°48	13° 2	5°45	14°49	22° 5	5°D11	6° 1	23°37	8°R18	T 7
F 8	13 37 41	26°13'05	14° 5	9° 1	5°25	7° 0	15° 2	13° 2	5°48	14°50	22° 6	5°11	5°58	23°43	8°18	F 8
S 9	13 41 37	27°11'28	26°23	8°49	6°39	7°26	15°16	13° 3	5°50	14°50	22° 7	5°11	5°55	23°50	8°18	S 9
S 10	13 45 34	28° 9'48	8°II53	8°32	7°52	7°52	15°31	13° 3	5°53	14°51	22° 8	5°12	5°52	23°57	8°18	S 10
M11	13 49 30	29° 8'07	21°37	8°10	9° 6	8°17	15°45	13° 4	5°55	14°52	22° 9	5°13	5°48	24° 3	8°18	M11
T 12	13 53 27	0°B 6'24	4°B37	7°44	10°19	8°42	15°59	13° 4	5°57	14°53	22°10	5°13	5°45	24°10	8°17	T 12
W13	13 57 23	1° 4'39	17°54	7°15	11°33	9° 7	16°13	13° 5	6° 0	14°54	22°10	5°14	5°42	24°17	8°17	W13
T 14	14 1 20	2° 2'52	1°Q13	6°43	12°46	9°31	16°27	13° 6	6° 2	14°55	22°11	5°R14	5°39	24°23	8°16	T 14
F 15	14 5 17	3° 1'02	15°27	6° 8	14° 0	9°55	16°42	13° 7	6° 4	14°56	22°12	5°14	5°36	24°30	8°16	F 15
S 16	14 9 13	3°59'11	29°43	5°31	15°13	10°19	16°56	13° 8	6° 6	14°56	22°13	5°13	5°32	24°37	8°15	S 16
S 17	14 13 10	4°57'17	14°M16	4°54	16°27	10°43	17°10	13° 9	6° 8	14°57	22°14	5°D13	5°29	24°43	8°14	S 17
M18	14 17 6	5°55'22	29° 3	4°15	17°40	11° 6	17°24	13°10	6°11	14°58	22°16	5°13	5°26	24°50	8°13	M18
T 19	14 21 3	6°53'24	13°B56	3°38	18°53	11°29	17°38	13°11	6°13	14°59	22°17	5°14	5°23	24°57	8°12	T 19
W20	14 24 59	7°51'25	28°48	3° 1	20° 7	11°51	17°52	13°13	6°15	15° 1	22°18	5°R14	5°20	25° 3	8°11	W20
T 21	14 28 56	8°49'24	13°M33	2°26	21°20	12°13	18° 6	13°14	6°17	15° 2	22°19	5°14	5°17	25°10	8°10	T 21
F 22	14 32 52	9°47'22	28° 2	1°53	22°34	12°35	18°20	13°16	6°19	15° 3	22°20	5°13	5°13	25°17	8° 9	F 22
S 23	14 36 49	10°45'18	12°A11	1°22	23°47	12°56	18°34	13°18	6°21	15° 4	22°21	5°13	5°10	25°23	8° 8	S 23
S 24	14 40 45	11°43'13	25°56	0°55	25° 1	13°17	18°47	13°19	6°23	15° 5	22°22	5°12	5° 7	25°30	8° 6	S 24
M25	14 44 42	12°41'06	9°B16	0°31	26°14	13°38	19° 1	13°21	6°24	15° 6	22°23	5°11	5° 4	25°37	8° 5	M25
T 26	14 48 39	13°38'58	22°11	0°11	27°27	13°58	19°15	13°23	6°26	15° 8	22°24	5°11	5° 1	25°43	8° 4	T 26
W27	14 52 35	14°36'49	4°B45	29°Y56	28°41	14°18	19°29	13°25	6°28	15° 9	22°26	5°10	4°58	25°50	8° 2	W27
T 28	14 56 32	15°34'38	17° 2	29°44	29°54	14°37	19°43	13°28	6°30	15°10	22°27	5°D10	4°54	25°57	8° 0	T 28
F 29	15 0 28	16°32'26	29° 4	29°37	1°B 8	14°56	19°56	13°30	6°31	15°11	22°28	5°10	4°51	26° 3	7°59	F 29
S 30	15 4 25	17°B30'13	10°K58	29°D35	2°B21	15°B14	20°Y10	13°Q33	6°K33	15°B13	22°II29	5°M11	4°M48	26°K10	7°B57	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	7n37	9s50	5n 5	17n 0	3n 1	2s40	1s32	23s57	0s30	4n16	1s 6	18n13	1n20	10s13	0s44	22n 7	0s35	17n30	5s47	13s20	13s40	0n26	16s43	6n33			
S 2	7 59	6 14	4 41	17 10	3 1	2 11	1 32	23 58	0 32	4 22	1 6	18 13	1 20	10 12	0 44	22 7	0 35	17 30	5 46	13 20	13 39	0 28	16 42	6 33			
S 3	8 21	2 24	4 6	17 16	3 0	1 42	1 33	23 59	0 34	4 28	1 6	18 14	1 20	10 11	0 44	22 7	0 35	17 31	5 46	13 19	13 38	0 31	16 42	6 34			
M 4	8 43	1n32	3 20	17 20	2 58	1 13	1 33	24 0	0 36	4 33	1 6	18 14	1 20	10 10	0 44	22 7	0 35	17 31	5 46	13 18	13 37	0 33	16 41	6 35			
T 5	9 5	5 24	2 25	17 20	2 55	0 44	1 33	24 1	0 38	4 39	1 6	18 14	1 20	10 9	0 44	22 7	0 35	17 31	5 46	13 18	13 36	0 35	16 41	6 35			
W 6	9 26	9 6	1 24	17 17	2 50	0 14	1 33	24 2	0 40	4 44	1 6	18 14	1 20	10 8	0 44	22 7	0 35	17 31	5 46	13 17	13 35	0 37	16 40	6 36			
T 7	9 48	12 28	0 18	17 10	2 44	0n15	1 33	24 3	0 42	4 50	1 6	18 13	1 20	10 7	0 44	22 7	0 35	17 32	5 46	13 17	13 34	0 39	16 39	6 37			
F 8	10 9	15 20	0s49	17 1	2 36	0 44	1 34	24 4	0 44	4 55	1 6	18 13	1 19	10 6	0 44	22 6	0 35	17 32	5 45	13 17	13 33	0 41	16 39	6 37			
S 9	10 30	17 32	1 55	16 49	2 28	1 13	1 33	24 5	0 47	5 1	1 6	18 13	1 19	10 5	0 44	22 6	0 35	17 32	5 45	13 17	13 32	0 43	16 38	6 38			
S 10	10 51	18 57	2 56	16 34	2 18	1 42	1 33	24 5	0 49	5 6	1 6	18 13	1 19	10 4	0 44	22 6	0 35	17 32	5 45	13 18	13 31	0 45	16 38	6 38			
M11	11 12	19 25	3 50	16 16	2 6	2 11	1 33	24 6	0 51	5 12	1 6	18 13	1 19	10 4	0 45	22 6	0 35	17 32	5 45	13 18	13 30	0 47	16 37	6 39			
T 12	11 33	18 53	4 34	15 56	1 54	2 40	1 33	24 7	0 54	5 17	1 6	18 13	1 19	10 3	0 45	22 6	0 35	17 33	5 45	13 18	13 29	0 49	16 36	6 40			
W13	11 53	17 18	5 3	15 33	1 40	3 10	1 33	24 8	0 56	5 23	1 6	18 12	1 19	10 2	0 45	22 6	0 35	17 33	5 45	13 18	13 28	0 51	16 36	6 40			
T 14	12 13	14 44	5 17	15 9	1 26	3 39	1 32	24 8	0 58	5 28	1 6	18 12	1 19	10 1	0 45	22 6	0 35	17 33	5 45	13 18	13 27	0 53	16 35	6 41			
F 15	12 33	11 16	5 13	14 43	1 10	4 8	1 32	24 9	1 1	5 34	1 6	18 12	1 19	10 0	0 45	22 6	0 35	17 33	5 44	13 18	13 26	0 55	16 35	6 41			
S 16	12 53	7 5	4 49	14 15	0 54	4 36	1 31	24 10	1 3	5 39	1 6	18 11	1 19	9 59	0 45	22 6	0 35	17 33	5 44	13 18	13 25	0 57	16 34	6 42			
S 17	13 13	2 25	4 7	13 47	0 37	5 5	1 31	24 11	1 6	5 44	1 6	18 11	1 19	9 59	0 45	22 6	0 35	17 34	5 44	13 18	13 24	0 59	16 34	6 42			
M18	13 32	2s29	3 8	13 18	0 20	5 34	1 30	24 11	1 9	5 50	1 6	18 11	1 19	9 58	0 45	22 6	0 35	17 34	5 44	13 18	13 22	1 1	16 33	6 43			
T 19	13 51	7 17	1 56	12 49	0 3	6 3	1 29	24 12	1 11	5 55	1 6	18 10	1 19	9 57	0 45	22 6	0 34	17 34	5 44	13 18	13 21	1 3	16 33	6 44			
W20	14 10	11 38	0 36	12 20	0s14	6 31	1 29	24 13	1 14	6 0	1 6	18 10	1 19	9 56	0 45	22 6	0 34	17 34	5 44	13 18	13 20	1 5	16 32	6 44			
T 21	14 29	15 13	0n46	11 52	0 31	6 59	1 28	24 13	1 17	6 6	1 7	18 9	1 19	9 56	0 45	22 6	0 34	17 34	5 43	13 18	13 19	1 7	16 32	6 45			
F 22	14 48	17 47	2 3	11 25	0 48	7 28	1 27	24 14	1 20	6 11	1 7	18 9	1 19	9 55	0 45	22 5	0 34	17 35	5 43	13 18	13 18	1 9	16 31	6 45			
S 23	15 6	19 10	3 11	10 59	1 5	7 56	1 26	24 15	1 22	6 16	1 7	18 8	1 19	9 54	0 45	22 5	0 34	17 35	5 43	13 18	13 17	1 11	16 31	6 46			
S 24	15 24	19 21	4 6	10 34	1 21	8 24	1 25	24 16	1 25	6 21	1 7	18 8	1 19	9 54	0 45	22 5	0 34	17 35	5 43	13 18	13 16	1 13	16 30	6 46			
M25	15 42	18 26	4 45	10 11	1 36	8 51	1 24	24 16	1 28	6 27	1 7	18 7	1 18	9 53	0 45	22 5	0 34	17 35	5 43	13 18	13 15	1 15	16 30	6 47			
T 26	15 59	16 36	5 9	9 51	1 51	9 19	1 23	24 17	1 31	6 32	1 7	18 6	1 18	9 52	0 45	22 5	0 34	17 35	5 43	13 17	13 14	1 17	16 29	6 48			
W27	16 16	14 0	5 17	9 33	2 4	9 46	1 22	24 18	1 34	6 37	1 7	18 6	1 18	9 52	0 45	22 5	0 34	17 36	5 43	13 17	13 13	1 19	16 29	6 48			
T 28	16 33	10 51	5 10	9 17	2 17	10 13	1 20	24 19	1 37	6 42	1 7	18 5	1 18	9 51	0 45	22 5	0 34	17 36	5 43	13 17	13 12	1 21	16 28	6 49			
F 29	16 50	7 18	4 50	9 3	2 29	10 40	1 19	24 20	1 41	6 47	1 7	18 4	1 18	9 51	0 45	22 5	0 34	17 36	5 42	13 17	13 11	1 23	16 28	6 49			
S 30	17n 6	3s30	4n18	8n52	2s40	11n 7	1s18	24s21	1s44	6n52	1s 7	18n 3	1n18	9s50	0s45	22n 5	0s34	17n36	5s42	13s17	13s10	1n25	16s27	6n50			

ASTRODIENST EPHEMERIS for the year 1418

geocentric

MAY 1418 JC

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	15 8 21	18°27'59	22°48'48	29°37'37	3°35'35	15°32'32	20°23'23	13°35'35	6°35'35	15°14'14	22°30'30	5°12'12	4°45'45	26°17'17	7°55'55	S 1
M 2	15 12 18	19°25'44	4°38'38	29°44'44	4°48'48	15°50'50	20°37'37	13°38'38	6°36'36	15°15'15	22°32'32	5°13'13	4°42'42	26°23'23	7°53'53	M 2
T 3	15 16 14	20°23'27	16°31'31	29°55'55	6°2'2	16°7'7	20°50'50	13°40'40	6°38'38	15°17'17	22°33'33	5°15'15	4°38'38	26°30'30	7°51'51	T 3
W 4	15 20 11	21°21'09	28°32'32	0°11'11	7°15'15	16°23'23	21°4'4	13°43'43	6°39'39	15°18'18	22°34'34	5°15'15	4°35'35	26°37'37	7°49'49	W 4
T 5	15 24 8	22°18'50	10°42'42	0°31'31	8°29'29	16°39'39	21°17'17	13°46'46	6°40'40	15°20'20	22°35'35	5°15'15	4°32'32	26°44'44	7°47'47	T 5
F 6	15 28 4	23°16'30	23°5'5	0°55'55	9°42'42	16°55'55	21°30'30	13°49'49	6°42'42	15°21'21	22°37'37	5°14'14	4°29'29	26°50'50	7°45'45	F 6
S 7	15 32 1	24°14'09	5°11'11	1°24'24	10°56'56	17°9'9	21°44'44	13°52'52	6°43'43	15°23'23	22°38'38	5°13'13	4°26'26	26°57'57	7°43'43	S 7
S 8	15 35 57	25°11'46	18°30'30	1°57'57	12°9'9	17°24'24	21°57'57	13°56'56	6°44'44	15°24'24	22°39'39	5°10'10	4°23'23	27°4'4	7°40'40	S 8
M 9	15 39 54	26°9'22	1°34'34	2°33'33	13°22'22	17°38'38	22°10'10	13°59'59	6°46'46	15°26'26	22°41'41	5°7'7	4°19'19	27°10'10	7°38'38	M 9
T 10	15 43 50	27°6'56	14°52'52	3°14'14	14°36'36	17°51'51	22°23'23	14°2'2	6°47'47	15°28'28	22°42'42	5°4'4	4°16'16	27°17'17	7°36'36	T 10
W 11	15 47 47	28°4'30	28°23'23	3°59'59	15°49'49	18°3'3	22°36'36	14°6'6	6°48'48	15°29'29	22°43'43	5°1'1	4°13'13	27°24'24	7°33'33	W 11
T 12	15 51 43	29°2'01	12°8'8	4°47'47	17°3'3	18°15'15	22°49'49	14°9'9	6°49'49	15°31'31	22°45'45	5°0'0	4°10'10	27°30'30	7°30'30	T 12
F 13	15 55 40	29°59'32	26°4'4	5°39'39	18°16'16	18°27'27	23°2'2	14°13'13	6°50'50	15°32'32	22°46'46	4°D59	4°7'7	27°37'37	7°28'28	F 13
S 14	15 59 37	0°11'57	10°11'11	6°34'34	19°30'30	18°38'38	23°15'15	14°17'17	6°51'51	15°34'34	22°47'47	4°59'59	4°4'4	27°44'44	7°25'25	S 14
S 15	16 3 33	1°54'28	24°28'28	7°33'33	20°43'43	18°48'48	23°28'28	14°21'21	6°52'52	15°36'36	22°49'49	5°0'0	4°0'0	27°50'50	7°22'22	S 15
M 16	16 7 30	2°51'54	8°52'52	8°34'34	21°57'57	18°57'57	23°41'41	14°25'25	6°53'53	15°38'38	22°50'50	5°1'1	3°57'57	27°57'57	7°20'20	M 16
T 17	16 11 26	3°49'19	23°20'20	9°40'40	23°10'10	19°6'6	23°53'53	14°29'29	6°54'54	15°39'39	22°51'51	5°3'3	3°54'54	28°4'4	7°17'17	T 17
W 18	16 15 23	4°46'43	7°11'11	10°48'48	24°24'24	19°15'15	24°6'6	14°33'33	6°55'55	15°41'41	22°53'53	5°R3	3°51'51	28°10'10	7°14'14	W 18
T 19	16 19 19	5°44'06	22°10'10	11°59'59	25°37'37	19°22'22	24°18'18	14°37'37	6°55'55	15°43'43	22°54'54	5°2'2	3°48'48	28°17'17	7°11'11	T 19
F 20	16 23 16	6°41'28	6°22'22	13°14'14	26°51'51	19°29'29	24°31'31	14°41'41	6°56'56	15°45'45	22°56'56	4°59'59	3°44'44	28°24'24	7°8'8	F 20
S 21	16 27 12	7°38'49	20°19'19	14°31'31	28°4'4	19°36'36	24°43'43	14°45'45	6°57'57	15°46'46	22°57'57	4°56'56	3°41'41	28°30'30	7°5'5	S 21
S 22	16 31 9	8°36'09	3°35'58	15°52'52	29°18'18	19°41'41	24°55'55	14°50'50	6°57'57	15°48'48	22°58'58	4°51'51	3°38'38	28°37'37	7°2'2	S 22
M 23	16 35 6	9°33'28	17°15'15	17°15'15	0°11'31	19°46'46	25°8'8	14°54'54	6°58'58	15°50'50	23°0'0	4°45'45	3°35'35	28°44'44	6°59'59	M 23
T 24	16 39 2	10°30'47	0°11'11	18°42'42	1°45'45	19°50'50	25°20'20	14°59'59	6°58'58	15°52'52	23°1'1	4°40'40	3°32'32	28°50'50	6°55'55	T 24
W 25	16 42 59	11°28'06	12°46'46	20°11'11	2°58'58	19°54'54	25°32'32	15°4'4	6°59'59	15°54'54	23°3'3	4°35'35	3°29'29	28°57'57	6°52'52	W 25
T 26	16 46 55	12°25'23	25°4'4	21°43'43	4°12'12	19°56'56	25°44'44	15°8'8	6°59'59	15°56'56	23°4'4	4°32'32	3°25'25	29°4'4	6°49'49	T 26
F 27	16 50 52	13°22'41	7°38'38	23°18'18	5°25'25	19°58'58	25°56'56	15°13'13	7°0'0	15°58'58	23°5'5	4°31'31	3°22'22	29°10'10	6°46'46	F 27
S 28	16 54 48	14°19'57	19°3'3	24°55'55	6°39'39	20°0'0	26°8'8	15°18'18	7°0'0	16°0'0	23°7'7	4°D31	3°19'19	29°17'17	6°42'42	S 28
S 29	16 58 45	15°17'14	0°15'53	26°36'36	7°52'52	20°R0	26°19'19	15°23'23	7°0'0	16°2'2	23°8'8	4°32'32	3°16'16	29°24'24	6°39'39	S 29
M 30	17 2 41	16°14'30	12°43'43	28°19'19	9°6'6	20°0'0	26°31'31	15°28'28	7°1'1	16°4'4	23°10'10	4°33'33	3°13'13	29°30'30	6°36'36	M 30
T 31	17 6 38	17°11'46	24°40'40	0°11'5	10°11'20	19°35'59	26°43'43	15°33'33	7°1'1	16°6'6	23°11'11	4°35'35	3°11'11	29°37'37	6°32'32	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	17n23	0n25	3n34	8n44	2s50	11n33	1s16	24s22	1s47	6n57	1s7	18n3	1n18	9s49	0s45	22n4
M 2	17 38	4 19	2 42	8 38	2 58	11 59	1 15	24 24	1 50	7 2	1 7	18 2	1 18	9 49	0 45	22 4
T 3	17 54	8 5	1 42	8 34	3 6	12 25	1 13	24 25	1 54	7 7	1 7	18 1	1 18	9 48	0 45	22 4
W 4	18 9	11 34	0 37	8 33	3 13	12 51	1 12	24 26	1 57	7 12	1 7	18 0	1 18	9 48	0 45	22 4
T 5	18 24	14 36	0s30	8 35	3 19	13 16	1 10	24 28	2 0	7 17	1 7	17 59	1 18	9 47	0 45	22 4
F 6	18 39	17 2	1 37	8 39	3 24	13 41	1 9	24 29	2 4	7 22	1 7	17 58	1 18	9 47	0 45	22 4
S 7	18 53	18 41	2 40	8 45	3 28	14 5	1 7	24 31	2 8	7 27	1 7	17 57	1 18	9 46	0 45	22 4
S 8	19 7	19 25	3 37	8 53	3 31	14 30	1 5	24 33	2 11	7 32	1 8	17 56	1 18	9 46	0 45	22 3
M 9	19 21	19 8	4 23	9 4	3 33	14 54	1 3	24 34	2 15	7 37	1 8	17 55	1 18	9 46	0 45	22 3
T 10	19 34	17 47	4 55	9 17	3 34	15 17	1 2	24 36	2 19	7 42	1 8	17 54	1 18	9 45	0 46	22 3
W 11	19 48	15 27	5 13	9 31	3 34	15 40	1 0	24 38	2 22	7 46	1 8	17 53	1 18	9 45	0 46	22 3
T 12	20 0	12 13	5 12	9 48	3 34	16 3	0 58	24 41	2 26	7 51	1 8	17 52	1 18	9 44	0 46	22 3
F 13	20 13	8 16	4 54	10 6	3 33	16 26	0 56	24 43	2 30	7 56	1 8	17 51	1 17	9 44	0 46	22 3
S 14	20 25	3 48	4 17	10 26	3 31	16 48	0 54	24 45	2 34	8 0	1 8	17 50	1 17	9 44	0 46	22 2
S 15	20 36	0s56	3 25	10 48	3 28	17 9	0 52	24 48	2 38	8 5	1 8	17 49	1 17	9 43	0 46	22 2
M 16	20 48	5 39	2 19	11 11	3 24	17 31	0 50	24 50	2 42	8 10	1 8	17 47	1 17	9 43	0 46	22 2
T 17	20 59	10 5	1 4	11 35	3 20	17 51	0 48	24 53	2 46	8 14	1 8	17 46	1 17	9 43	0 46	22 2
W 18	21 9	13 55	0n15	12 1	3 15	18 11	0 46	24 56	2 50	8 19	1 8	17 45	1 17	9 43	0 46	22 2
T 19	21 20	16 53	1 32	12 28	3 10	18 31	0 43	24 59	2 54	8 23	1 8	17 44	1 17	9 42	0 46	22 2
F 20	21 30	18 46	2 43	12 56	3 4	18 51	0 41	25 2	2 58	8 28	1 9	17 42	1 17	9 42	0 46	22 1
S 21	21 39	19 28	3 43	13 26	2 57	19 9	0 39	25 5	3 3	8 32	1 9	17 41	1 17	9 42	0 46	22 1
S 22	21 48	19 0	4 28	13 56	2 50	19 28	0 37	25 9	3 7	8 37	1 9	17 40	1 17	9 42	0 46	22 1
M 23	21 57	17 29	4 57	14 27	2 42	19 45	0 35	25 12	3 11	8 41	1 9	17 38	1 17	9 42	0 46	22 1
T 24	22 6	15 7	5 11	14 58	2 34	20 3	0 32	25 16	3 16	8 45	1 9	17 37	1 17	9 41	0 46	22 1
W 25	22 14	12 6	5 8	15 31	2 25	20 20	0 30	25 20	3 20	8 50	1 9	17 36	1 17	9 41	0 46	22 0
T 26	22 21	8 37	4 52	16 4	2 16	20 36	0 28	25 24	3 24	8 54	1 9	17 34	1 17	9 41	0 46	22 0
F 27	22 28	4 51	4 23	16 37	2 6	20 51	0 25	25 28	3 29	8 58	1 9	17 33	1 17	9 41	0 46	22 0
S 28	22 35	0 56	3 42	17 11	1 56	21 6	0 23	25 32	3 33	9 2	1 9	17 31	1 17	9 41	0 46	22 0
S 29	22 42	3n0	2 53	17 44	1 46	21 21	0 21	25 36	3 38	9 7	1 10	17 30	1 17	9 41	0 46	22 0
M 30	22 48	6 49	1 56	18 18	1 35	21 35	0 18	25 41	3 42	9 11	1 10	17 28	1 17	9 41	0 46	21 59
T 31	22n54	10n25	0n54	18n51	1s25	21n48	0s16	25s46	3s47	9n15	1s10	17n27	1n17	9s41	0s46	21n59

Julian Day Number = 2239102.5, Delta T = 07m24s

Ecliptic obliquity = 23°30'46", Nutation = 0°00'09", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°37'33", Lahiri = 15°44'34" Julian Calendar 1 May 1418 == Greg. Calendar 10 May 1418

ASTRODIENST EPHEMERIS for the year 1418

geocentric

JUNE 1418 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	17 10 35	18II 9'01	6846	1II54	11II33	19R57	26V54	15Ω38	7K 1	16Ω 8	23II13	4R35	3M 6	29K44	6R29	W 1
T 2	17 14 31	19° 6'17	19° 6	3°45	12°47	19Ω55	27° 6	15°44	7° 1	16°10	23°14	4M34	3° 3	29°50	6Ω25	T 2
F 3	17 18 28	20° 3'31	1II42	5°39	14° 0	19°51	27°17	15°49	7R 1	16°12	23°16	4°31	3° 0	29°57	6°22	F 3
S 4	17 22 24	21° 0'46	14°35	7°35	15°14	19°47	27°28	15°54	7° 1	16°14	23°17	4°26	2°57	0V 4	6°18	S 4
S 5	17 26 21	21°58'00	27°47	9°34	16°27	19°42	27°39	16° 0	7° 1	16°16	23°18	4°19	2°54	0°10	6°14	S 5
M 6	17 30 17	22°55'14	11Ω15	11°35	17°41	19°37	27°50	16° 5	7° 1	16°18	23°20	4°11	2°50	0°17	6°11	M 6
T 7	17 34 14	23°52'28	24°58	13°38	18°55	19°30	28° 1	16°11	7° 1	16°20	23°21	4° 3	2°47	0°24	6° 7	T 7
W 8	17 38 11	24°49'40	8Ω52	15°43	20° 8	19°23	28°12	16°16	7° 0	16°22	23°23	3°56	2°44	0°30	6° 3	W 8
T 9	17 42 7	25°46'53	22°54	17°49	21°22	19°16	28°23	16°22	7° 0	16°24	23°24	3°50	2°41	0°37	6° 0	T 9
F 10	17 46 4	26°44'04	7M 1	19°57	22°36	19° 7	28°34	16°28	7° 0	16°26	23°26	3°46	2°38	0°44	5°56	F 10
S 11	17 50 0	27°41'16	21°10	22° 6	23°49	18°58	28°44	16°34	6°59	16°28	23°27	3°45	2°35	0°50	5°52	S 11
S 12	17 53 57	28°38'26	5Ω20	24°16	25° 3	18°48	28°55	16°40	6°59	16°31	23°29	3D45	2°31	0°57	5°49	S 12
M13	17 57 53	29°35'37	19°29	26°26	26°17	18°38	29° 5	16°46	6°59	16°33	23°30	3°46	2°28	1° 4	5°45	M13
T 14	18 1 50	0Ω32'47	3M35	28°37	27°30	18°27	29°15	16°52	6°58	16°35	23°32	3R46	2°25	1°10	5°41	T 14
W15	18 5 46	1°29'56	17°38	0Ω48	28°44	18°15	29°25	16°58	6°58	16°37	23°33	3°45	2°22	1°17	5°37	W15
T 16	18 9 43	2°27'06	1K34	2°58	29°58	18° 3	29°35	17° 4	6°57	16°39	23°34	3°42	2°19	1°24	5°34	T 16
F 17	18 13 40	3°24'15	15°22	5° 8	1Ω11	17°50	29°45	17°10	6°56	16°41	23°36	3°37	2°15	1°30	5°30	F 17
S 18	18 17 36	4°21'24	28°58	7°17	2°25	17°37	29°55	17°16	6°56	16°44	23°37	3°29	2°12	1°37	5°26	S 18
S 19	18 21 33	5°18'33	12Ω21	9°25	3°39	17°23	0Ω 5	17°23	6°55	16°46	23°39	3°20	2° 9	1°44	5°22	S 19
M20	18 25 29	6°15'42	25°26	11°33	4°53	17° 8	0°14	17°29	6°54	16°48	23°40	3° 9	2° 6	1°50	5°19	M20
T 21	18 29 26	7°12'52	8Ω15	13°38	6° 6	16°54	0°24	17°35	6°53	16°50	23°42	2°59	2° 3	1°57	5°15	T 21
W22	18 33 22	8°10'02	20°46	15°43	7°20	16°39	0°33	17°42	6°52	16°52	23°43	2°49	2° 0	2° 4	5°11	W22
T 23	18 37 19	9° 7'12	3K 1	17°45	8°34	16°23	0°42	17°48	6°52	16°55	23°44	2°42	1°56	2°10	5° 7	T 23
F 24	18 41 15	10° 4'22	15° 4	19°47	9°48	16° 7	0°51	17°55	6°51	16°57	23°46	2°37	1°53	2°17	5° 4	F 24
S 25	18 45 12	11° 1'33	26°58	21°46	11° 1	15°51	1° 0	18° 1	6°50	16°59	23°47	2°34	1°50	2°24	5° 0	S 25
S 26	18 49 9	11°58'44	8V47	23°44	12°15	15°35	1° 9	18° 8	6°49	17° 1	23°49	2D33	1°47	2°30	4°56	S 26
M27	18 53 5	12°55'56	20°38	25°40	13°29	15°18	1°18	18°15	6°48	17° 3	23°50	2°33	1°44	2°37	4°53	M27
T 28	18 57 2	13°53'09	2Ω35	27°34	14°43	15° 1	1°26	18°21	6°46	17° 6	23°51	2R33	1°41	2°44	4°49	T 28
W29	19 0 58	14°50'22	14°44	29°26	15°57	14°44	1°35	18°28	6°45	17° 8	23°53	2°33	1°37	2°50	4°45	W29
T 30	19 4 55	15Ω47'36	27Ω 9	1Ω17	17Ω10	14Ω27	1Ω43	18Ω35	6K44	17Ω10	23II54	2M30	1M34	2V57	4Ω41	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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Julian Day Number = 2239133.5, Delta T = 07m23s

Ecliptic obliquity = 23°30'45", Nutation = 0°00'09", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°37'37", Lahiri = 15°44'38" Julian Calendar 1 June 1418 == Greg. Calendar 10 June 1418

ASTRODIENST EPHEMERIS for the year 1418
geocentric

JULY 1418 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	19 8 51	16 ⁵⁴ 44'51	9 ¹¹ 54	3 ⁰ 5	18 ⁵² 24	14 ⁰ R10	1 ⁸ 51	18 ⁰ 42	6 ⁰ R43	17 ⁵ 12	23 ¹¹ 55	2 ⁰ R25	1 ¹¹ 31	3 ⁰ Y 4	4 ⁰ R38	F 1
S 2	19 12 48	17 ⁰ 42'06	23 ⁰ 1	4 ⁰ 52	19 ⁰ 38	13 ⁰ 53	1 ⁰ 59	18 ⁰ 49	6 ⁰ X42	17 ⁰ 15	23 ⁰ 57	2 ⁰ M18	1 ⁰ 28	3 ⁰ 10	4 ⁰ 34	S 2
S 3	19 16 44	18 ⁰ 39'22	6 ⁰ 31	6 ⁰ 37	20 ⁰ 52	13 ⁰ 36	2 ⁰ 7	18 ⁰ 56	6 ⁰ 40	17 ⁰ 17	23 ⁰ 58	2 ⁰ 9	1 ⁰ 25	3 ⁰ 17	4 ⁰ 31	S 3
M 4	19 20 41	19 ⁰ 36'38	20 ⁰ 23	8 ⁰ 20	22 ⁰ 6	13 ⁰ 20	2 ⁰ 15	19 ⁰ 3	6 ⁰ 39	17 ⁰ 19	23 ⁰ 59	1 ⁰ 58	1 ⁰ 21	3 ⁰ 24	4 ⁰ 27	M 4
T 5	19 24 38	20 ⁰ 33'55	4 ⁰ 31	10 ⁰ 2	23 ⁰ 20	13 ⁰ 3	2 ⁰ 22	19 ⁰ 10	6 ⁰ 37	17 ⁰ 21	24 ⁰ 1	1 ⁰ 46	1 ⁰ 18	3 ⁰ 30	4 ⁰ 24	T 5
W 6	19 28 34	21 ⁰ 31'13	18 ⁰ 52	11 ⁰ 41	24 ⁰ 34	12 ⁰ 47	2 ⁰ 30	19 ⁰ 17	6 ⁰ 36	17 ⁰ 23	24 ⁰ 2	1 ⁰ 36	1 ⁰ 15	3 ⁰ 37	4 ⁰ 20	W 6
T 7	19 32 31	22 ⁰ 28'31	3 ⁰ 18	13 ⁰ 19	25 ⁰ 48	12 ⁰ 30	2 ⁰ 37	19 ⁰ 24	6 ⁰ 34	17 ⁰ 26	24 ⁰ 3	1 ⁰ 27	1 ⁰ 12	3 ⁰ 44	4 ⁰ 17	T 7
F 8	19 36 27	23 ⁰ 25'49	17 ⁰ 44	14 ⁰ 54	27 ⁰ 2	12 ⁰ 15	2 ⁰ 44	19 ⁰ 31	6 ⁰ 33	17 ⁰ 28	24 ⁰ 5	1 ⁰ 21	1 ⁰ 9	3 ⁰ 50	4 ⁰ 13	F 8
S 9	19 40 24	24 ⁰ 23'08	2 ⁰ 5	16 ⁰ 28	28 ⁰ 16	11 ⁰ 59	2 ⁰ 51	19 ⁰ 38	6 ⁰ 31	17 ⁰ 30	24 ⁰ 6	1 ⁰ 18	1 ⁰ 6	3 ⁰ 57	4 ⁰ 10	S 9
S 10	19 44 20	25 ⁰ 20'27	16 ⁰ 19	18 ⁰ 1	29 ⁰ 30	11 ⁰ 44	2 ⁰ 58	19 ⁰ 45	6 ⁰ 30	17 ⁰ 32	24 ⁰ 7	1 ⁰ 17	1 ⁰ 2	4 ⁰ 4	4 ⁰ 6	S 10
M 11	19 48 17	26 ⁰ 17'47	0 ⁰ 24	19 ⁰ 31	0 ⁰ 44	11 ⁰ 29	3 ⁰ 5	19 ⁰ 52	6 ⁰ 28	17 ⁰ 35	24 ⁰ 9	1 ⁰ 16	0 ⁰ 59	4 ⁰ 10	4 ⁰ 3	M 11
T 12	19 52 13	27 ⁰ 15'07	14 ⁰ 18	20 ⁰ 59	1 ⁰ 58	11 ⁰ 15	3 ⁰ 11	19 ⁰ 59	6 ⁰ 27	17 ⁰ 37	24 ⁰ 10	1 ⁰ 16	0 ⁰ 56	4 ⁰ 17	4 ⁰ 0	T 12
W 13	19 56 10	28 ⁰ 12'28	28 ⁰ 3	22 ⁰ 26	3 ⁰ 12	11 ⁰ 2	3 ⁰ 18	20 ⁰ 7	6 ⁰ 25	17 ⁰ 39	24 ⁰ 11	1 ⁰ 14	0 ⁰ 53	4 ⁰ 24	3 ⁰ 56	W 13
T 14	20 0 7	29 ⁰ 9'49	11 ⁰ 37	23 ⁰ 51	4 ⁰ 26	10 ⁰ 49	3 ⁰ 24	20 ⁰ 14	6 ⁰ 23	17 ⁰ 41	24 ⁰ 12	1 ⁰ 10	0 ⁰ 50	4 ⁰ 30	3 ⁰ 53	T 14
F 15	20 4 3	0 ⁰ 7'11	25 ⁰ 2	25 ⁰ 13	5 ⁰ 40	10 ⁰ 36	3 ⁰ 30	20 ⁰ 21	6 ⁰ 21	17 ⁰ 43	24 ⁰ 14	1 ⁰ 4	0 ⁰ 47	4 ⁰ 37	3 ⁰ 50	F 15
S 16	20 8 0	1 ⁰ 4'34	8 ⁰ 35	26 ⁰ 34	6 ⁰ 54	10 ⁰ 24	3 ⁰ 36	20 ⁰ 29	6 ⁰ 20	17 ⁰ 46	24 ⁰ 15	0 ⁰ 54	0 ⁰ 43	4 ⁰ 44	3 ⁰ 47	S 16
S 17	20 11 56	2 ⁰ 1'57	21 ⁰ 16	27 ⁰ 53	8 ⁰ 8	10 ⁰ 13	3 ⁰ 42	20 ⁰ 36	6 ⁰ 18	17 ⁰ 48	24 ⁰ 16	0 ⁰ 42	0 ⁰ 40	4 ⁰ 50	3 ⁰ 44	S 17
M 18	20 15 53	2 ⁰ 59'22	4 ⁰ 5	29 ⁰ 10	9 ⁰ 22	10 ⁰ 2	3 ⁰ 47	20 ⁰ 43	6 ⁰ 16	17 ⁰ 50	24 ⁰ 17	0 ⁰ 29	0 ⁰ 37	4 ⁰ 57	3 ⁰ 41	M 18
T 19	20 19 49	3 ⁰ 56'47	16 ⁰ 40	0 ⁰ 24	10 ⁰ 36	9 ⁰ 52	3 ⁰ 53	20 ⁰ 51	6 ⁰ 14	17 ⁰ 52	24 ⁰ 18	0 ⁰ 16	0 ⁰ 34	5 ⁰ 4	3 ⁰ 38	T 19
W 20	20 23 46	4 ⁰ 54'14	29 ⁰ 1	1 ⁰ 37	11 ⁰ 50	9 ⁰ 43	3 ⁰ 58	20 ⁰ 58	6 ⁰ 12	17 ⁰ 54	24 ⁰ 19	0 ⁰ 5	0 ⁰ 31	5 ⁰ 10	3 ⁰ 35	W 20
T 21	20 27 42	5 ⁰ 51'41	11 ⁰ 37	2 ⁰ 47	13 ⁰ 4	9 ⁰ 34	4 ⁰ 3	21 ⁰ 6	6 ⁰ 10	17 ⁰ 56	24 ⁰ 21	29 ⁰ 55	0 ⁰ 27	5 ⁰ 17	3 ⁰ 32	T 21
F 22	20 31 39	6 ⁰ 49'10	23 ⁰ 8	3 ⁰ 55	14 ⁰ 18	9 ⁰ 27	4 ⁰ 8	21 ⁰ 13	6 ⁰ 8	17 ⁰ 58	24 ⁰ 22	29 ⁰ 48	0 ⁰ 24	5 ⁰ 24	3 ⁰ 29	F 22
S 23	20 35 36	7 ⁰ 46'40	5 ⁰ Y 0	5 ⁰ 0	15 ⁰ 32	9 ⁰ 20	4 ⁰ 13	21 ⁰ 21	6 ⁰ 6	18 ⁰ 1	24 ⁰ 23	29 ⁰ 44	0 ⁰ 21	5 ⁰ 30	3 ⁰ 26	S 23
S 24	20 39 32	8 ⁰ 44'11	16 ⁰ 48	6 ⁰ 3	16 ⁰ 46	9 ⁰ 13	4 ⁰ 17	21 ⁰ 28	6 ⁰ 4	18 ⁰ 3	24 ⁰ 24	29 ⁰ 41	0 ⁰ 18	5 ⁰ 37	3 ⁰ 24	S 24
M 25	20 43 29	9 ⁰ 41'49	28 ⁰ 37	7 ⁰ 4	18 ⁰ 0	9 ⁰ 8	4 ⁰ 22	21 ⁰ 36	6 ⁰ 2	18 ⁰ 5	24 ⁰ 25	29 ⁰ D41	0 ⁰ 15	5 ⁰ 43	3 ⁰ 21	M 25
T 26	20 47 25	10 ⁰ 39'19	10 ⁰ 33	8 ⁰ 1	19 ⁰ 14	9 ⁰ 3	4 ⁰ 26	21 ⁰ 43	6 ⁰ 0	18 ⁰ 7	24 ⁰ 26	29 ⁰ R41	0 ⁰ 12	5 ⁰ 50	3 ⁰ 18	T 26
W 27	20 51 22	11 ⁰ 36'54	22 ⁰ 41	8 ⁰ 56	20 ⁰ 28	8 ⁰ 59	4 ⁰ 30	21 ⁰ 51	5 ⁰ 58	18 ⁰ 9	24 ⁰ 27	29 ⁰ 41	0 ⁰ 8	5 ⁰ 57	3 ⁰ 16	W 27
T 28	20 55 18	12 ⁰ 34'32	5 ⁰ II 7	9 ⁰ 48	21 ⁰ 42	8 ⁰ 56	4 ⁰ 34	21 ⁰ 58	5 ⁰ 56	18 ⁰ 11	24 ⁰ 28	29 ⁰ 39	0 ⁰ 5	6 ⁰ 3	3 ⁰ 13	T 28
F 29	20 59 15	13 ⁰ 32'11	17 ⁰ 54	10 ⁰ 37	22 ⁰ 56	8 ⁰ 54	4 ⁰ 37	22 ⁰ 6	5 ⁰ 54	18 ⁰ 13	24 ⁰ 29	29 ⁰ 35	0 ⁰ 2	6 ⁰ 10	3 ⁰ 11	F 29
S 30	21 3 11	14 ⁰ 29'51	1 ⁰ 7	11 ⁰ 22	24 ⁰ 10	8 ⁰ 52	4 ⁰ 41	22 ⁰ 13	5 ⁰ 51	18 ⁰ 15	24 ⁰ 30	29 ⁰ 28	29 ⁰ 59	6 ⁰ 17	3 ⁰ 8	S 30
S 31	21 7 8	15 ⁰ 27'33	14 ⁰ 47	12 ⁰ 4	25 ⁰ 25	8 ⁰ D52	4 ⁰ 44	22 ⁰ 21	5 ⁰ X49	18 ⁰ 17	24 ⁰ 31	29 ⁰ 19	29 ⁰ 56	6 ⁰ Y23	3 ⁰ 6	S 31

Day	☉	☾		♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	22n28	18n58	3s 4	21n11	1n42	23n 7	0n53	28s31	5s48	10n59	1s15	16n29	1n16	9s49	0s47	21n51	0s33	17n44	5s38
S 2	22 20	19 26	3 54	20 42	1 38	22 59	0 55	28 35	5 50	11 2	1 15	16 26	1 16	9 49	0 48	21 51	0 33	17 44	5 38
S 3	22 13	18 49	4 32	20 11	1 34	22 50	0 57	28 39	5 52	11 4	1 15	16 24	1 16	9 50	0 48	21 51	0 33	17 44	5 38
M 4	22 4	17 6	4 55	19 40	1 29	22 40	0 59	28 43	5 54	11 7	1 15	16 22	1 16	9 50	0 48	21 51	0 33	17 44	5 38
T 5	21 56	14 19	5 1	19 8	1 24	22 29	1 0	28 46	5 56	11 9	1 15	16 20	1 16	9 51	0 48	21 50	0 33	17 45	5 38
W 6	21 47	10 39	4 48	18 35	1 19	22 18	1 2	28 49	5 57	11 12	1 15	16 18	1 16	9 51	0 48	21 50	0 33	17 45	5 38
T 7	21 38	6 20	4 16	18 2	1 12	22 6	1 4	28 52	5 59	11 14	1 16	16 15	1 16	9 52	0 48	21 50	0 33	17 45	5 38
F 8	21 28	1 40	3 29	17 28	1 6	21 53	1 5	28 55	6 0	11 16	1 16	16 13	1 16	9 52	0 48	21 49	0 33	17 45	5 38
S 9	21 18	3s 6	2 28	16 53	0 59	21 40	1 7	28 57	6 1	11 19	1 16	16 11	1 16	9 53	0 48	21 49	0 33	17 45	5 38
S 10	21 8	7 38	1 18	16 18	0 52	21 26	1 8	29 0	6 2	11 21	1 16	16 9	1 16	9 54	0 48	21 49	0 33	17 45	5 38
M11	20 57	11 43	0 5	15 43	0 44	21 11	1 10	29 2	6 2	11 23	1 16	16 6	1 16	9 54	0 48	21 49	0 33	17 45	5 38
T 12	20 46	15 5	1n 8	15 7	0 36	20 56	1 11	29 3	6 3	11 25	1 17	16 4	1 16	9 55	0 48	21 48	0 33	17 45	5 38
W13	20 35	17 34	2 17	14 31	0 28	20 41	1 12	29 5	6 3	11 27	1 17	16 2	1 16	9 56	0 48	21 48	0 33	17 45	5 39
T 14	20 23	19 1	3 16	13 55	0 19	20 24	1 14	29 6	6 3	11 29	1 17	16 0	1 16	9 56	0 48	21 48	0 33	17 45	5 39
F 15	20 11	19 22	4 4	13 19	0 11	20 7	1 15	29 7	6 3	11 31	1 17	15 57	1 16	9 57	0 48	21 47	0 33	17 45	5 39
S 16	19 59	18 38	4 38	12 43	0 1	19 50	1 16	29 8	6 3	11 32	1 17	15 55	1 17	9 58	0 48	21 47	0 33	17 45	5 39
S 17	19 46	16 57	4 56	12 7	0s 8	19 32	1 17	29 9	6 3	11 34	1 18	15 53	1 17	9 58	0 48	21 47	0 33	17 45	5 39
M18	19 33	14 26	5 0	11 32	0 18	19 13	1 18	29 9	6 2	11 36	1 18	15 50	1 17	9 59	0 48	21 47	0 33	17 45	5 39
T 19	19 20	11 18	4 48	10 56	0 28	18 54	1 19	29 9	6 2	11 38	1 18	15 48	1 17	10 0	0 48	21 46	0 33	17 45	5 39
W20	19 6	7 44	4 24	10 21	0 38	18 35	1 20	29 9	6 1	11 39	1 18	15 46	1 17	10 0	0 48	21 46	0 33	17 45	5 39
T 21	18 52	3 54	3 47	9 46	0 48	18 14	1 21	29 9	6 0	11 41	1 18	15 43	1 17	10 1	0 48	21 46	0 33	17 45	5 39
F 22	18 37	0n 2	3 1	9 12	0 58	17 54	1 22	29 9	5 59	11 42	1 19	15 41	1 17	10 2	0 48	21 46	0 33	17 45	5 39
S 23	18 23	3 56	2 7	8 38	1 9	17 33	1 23	29 8	5 58	11 43	1 19	15 39	1 17	10 3	0 48	21 45	0 33	17 45	5 39
S 24	18 8	7 40	1 8	8 5	1 20	17 11	1 23	29 8	5 57	11 45	1 19	15 36	1 17	10 3	0 48	21 45	0 33	17 45	5 39
M25	17 53	11 6	0 6	7 33	1 31	16 49	1 24	29 7	5 56	11 46	1 19	15 34	1 17	10 4	0 48	21 45	0 33	17 45	5 39
T 26	17 37	14 7	0s57	7 1	1 41	16 26	1 24	29 6	5 54	11 47	1 20	15 31	1 17	10 5	0 48	21 44	0 33	17 45	5 39
W27	17 21	16 35	1 59	6 30	1 52	16 3	1 25	29 4	5 53	11 48	1 20	15 29	1 17	10 6	0 48	21 44	0 33	17 45	5 39
T 28	17 5	18 19	2 56	6 1	2 3	15 40	1 25	29 3	5 51	11 50	1 20	15 27	1 17	10 7	0 48	21 44	0 33	17 45	5 39
F 29	16 49	19 12	3 47	5 32	2 15	15 16	1 26	29 1	5 49	11 51	1 20	15 24	1 17	10 7	0 48	21 44	0 33	17 45	5 39
S 30	16 32	19 4	4 27	5 5	2 26	14 51	1 26	29 0	5 47	11 52	1 20	15 22	1 17	10 8	0 48	21 43	0 33	17 45	5 39
S 31	16n15	17n50	4s53	4n39	2s36	14n27	1n26	28s58	5s46	11n52	1s21	15n19	1n17	10s 9	0s48	21n43	0s33	17n45	5s39

ASTRODIENST EPHEMERIS for the year 1418

geocentric

AUGUST 1418 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	21 11 5	16♌25'17	28♎53	12♏42	26♏39	8♏52	4♏47	22♏28	5♏R47	18♎19	24♏32	29♏R 9	29♎53	6♏P30	3♏R 4	M 1	
T 2	21 15 1	17°23'02	13♌21	13°16	27°53	8°53	4°50	22°36	5♏45	18°21	24°33	28♎58	29°49	6°37	3♏2	T 2	
W 3	21 18 58	18°20'48	28° 4	13°46	29° 7	8°55	4°53	22°44	5°43	18°23	24°34	28°48	29°46	6°43	3° 0	W 3	
T 4	21 22 54	19°18'36	12♏54	14°11	0♏21	8°57	4°56	22°51	5°40	18°25	24°35	28°40	29°43	6°50	2°57	T 4	
F 5	21 26 51	20°16'25	27°43	14°32	1°35	9° 1	4°58	22°59	5°38	18°27	24°36	28°34	29°40	6°57	2°55	F 5	
S 6	21 30 47	21°14'15	12♎24	14°48	2°50	9° 5	5° 0	23° 7	5°36	18°29	24°37	28°31	29°37	7° 3	2°54	S 6	
S 7	21 34 44	22°12'06	26°52	14°59	4° 4	9°10	5° 2	23°14	5°33	18°31	24°38	28°D30	29°33	7°10	2°52	S 7	
M 8	21 38 40	23° 9'59	11♏ 4	15°R 5	5°18	9°16	5° 4	23°22	5°31	18°33	24°39	28°30	29°30	7°17	2°50	M 8	
T 9	21 42 37	24° 7'53	24°58	15° 5	6°32	9°23	5° 5	23°29	5°29	18°35	24°39	28°R31	29°27	7°23	2°48	T 9	
W10	21 46 34	25° 5'48	8♏35	14°59	7°46	9°31	5° 7	23°37	5°26	18°37	24°40	28°30	29°24	7°30	2°47	W10	
T 11	21 50 30	26° 3'45	21°56	14°47	9° 0	9°39	5° 8	23°45	5°24	18°39	24°41	28°27	29°21	7°37	2°45	T 11	
F 12	21 54 27	27° 1'43	5♏ 3	14°29	10°15	9°48	5° 9	23°52	5°22	18°40	24°42	28°22	29°18	7°43	2°44	F 12	
S 13	21 58 23	27°59'42	17°57	14° 5	11°29	9°58	5°10	24° 0	5°19	18°42	24°43	28°14	29°14	7°50	2°42	S 13	
S 14	22 2 20	28°57'43	0♏39	13°35	12°43	10° 9	5°10	24° 7	5°17	18°44	24°43	28° 5	29°11	7°57	2°41	S 14	
M15	22 6 16	29°55'46	13° 9	12°59	13°57	10°20	5°11	24°15	5°15	18°46	24°44	27°54	29° 8	8° 3	2°40	M15	
T 16	22 10 13	0♏53'49	25°29	12°17	15°11	10°33	5°R11	24°23	5°12	18°48	24°45	27°44	29° 5	8°10	2°38	T 16	
W17	22 14 9	1°51'55	7♏38	11°30	16°25	10°45	5°11	24°30	5°10	18°49	24°45	27°34	29° 2	8°17	2°37	W17	
T 18	22 18 6	2°50'02	19°39	10°39	17°40	10°59	5°11	24°38	5° 7	18°51	24°46	27°26	28°59	8°23	2°36	T 18	
F 19	22 22 2	3°48'11	1♏32	9°44	18°54	11°13	5°10	24°45	5° 5	18°53	24°47	27°21	28°55	8°30	2°35	F 19	
S 20	22 25 59	4°46'22	13°21	8°47	20° 8	11°28	5°10	24°53	5° 3	18°55	24°47	27°17	28°52	8°37	2°34	S 20	
S 21	22 29 56	5°44'35	25° 7	7°48	21°22	11°44	5° 9	25° 0	5° 0	18°56	24°48	27°D16	28°49	8°43	2°34	S 21	
M22	22 33 52	6°42'50	6♏56	6°48	22°36	12° 0	5° 8	25° 8	4°58	18°58	24°48	27°17	28°46	8°50	2°33	M22	
T 23	22 37 49	7°41'07	18°51	5°50	23°51	12°17	5° 7	25°16	4°55	18°59	24°49	27°18	28°43	8°56	2°32	T 23	
W24	22 41 45	8°39'27	0♏58	4°54	25° 5	12°34	5° 5	25°23	4°53	19° 1	24°50	27°19	28°39	9° 3	2°32	W24	
T 25	22 45 42	9°37'48	13°21	4° 1	26°19	12°52	5° 4	25°31	4°51	19° 3	24°50	27°R19	28°36	9°10	2°31	T 25	
F 26	22 49 38	10°36'11	26° 6	3°13	27°33	13°11	5° 2	25°38	4°48	19° 4	24°51	27°18	28°33	9°16	2°31	F 26	
S 27	22 53 35	11°34'37	9♏17	2°32	28°47	13°30	5° 0	25°45	4°46	19° 6	24°51	27°15	28°30	9°23	2°30	S 27	
S 28	22 57 31	12°33'05	22°56	1°58	0♏ 1	13°50	4°58	25°53	4°44	19° 7	24°52	27°10	28°27	9°30	2°30	S 28	
M29	23 1 28	13°31'35	7♏ 3	1°31	1°16	14°10	4°55	26° 0	4°41	19° 9	24°52	27° 4	28°24	9°36	2°30	M29	
T 30	23 5 25	14°30'07	21°36	1°14	2°30	14°31	4°53	26° 8	4°39	19°10	24°52	26°57	28°20	9°43	2°30	T 30	
W31	23 9 21	15♏28'41	6♏30	1°D 5	3♏44	14♏53	4♏50	26♏15	4♏36	19♏11	24♏53	26♏51	28♏17	9♏P50	2°D30	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	decl	lat
M 1	15n58	15n31	5 s 2	4n14	2s47	14n 1	1n26	28s56	5s44	11n53	1s21	15n17	1n17	10s10	0s48	21n43	0s33	17n45	5s39	11s12	11s28	4n28	16s31	6n58					
T 2	15 40	12 11	4 53	3 51	2 58	13 36	1 26	28 53	5 41	11 54	1 21	15 14	1 17	10 11	0 48	21 43	0 33	17 45	5 39	11 8	11 27	4 30	16 31	6 58					
W 3	15 23	8 3	4 24	3 30	3 8	13 10	1 27	28 51	5 39	11 55	1 21	15 12	1 17	10 12	0 48	21 42	0 33	17 45	5 39	11 5	11 25	4 32	16 32	6 57					
T 4	15 5	3 23	3 38	3 11	3 19	12 44	1 27	28 49	5 37	11 55	1 21	15 9	1 17	10 12	0 48	21 42	0 33	17 45	5 39	11 2	11 24	4 34	16 32	6 57					
F 5	14 46	1s29	2 36	2 54	3 28	12 17	1 26	28 46	5 35	11 56	1 22	15 7	1 17	10 13	0 48	21 42	0 33	17 45	5 39	11 0	11 23	4 36	16 32	6 56					
S 6	14 28	6 13	1 25	2 39	3 38	11 50	1 26	28 44	5 32	11 57	1 22	15 5	1 18	10 14	0 48	21 41	0 33	17 45	5 39	10 59	11 22	4 37	16 33	6 56					
S 7	14 9	10 31	0 9	2 27	3 47	11 23	1 26	28 41	5 30	11 57	1 22	15 2	1 18	10 15	0 48	21 41	0 33	17 45	5 40	10 58	11 21	4 39	16 33	6 56					
M 8	13 50	14 8	1n 7	2 17	3 55	10 56	1 26	28 38	5 27	11 57	1 22	15 0	1 18	10 16	0 48	21 41	0 33	17 45	5 40	10 59	11 20	4 41	16 34	6 55					
T 9	13 31	16 52	2 16	2 10	4 3	10 28	1 25	28 35	5 25	11 58	1 23	14 57	1 18	10 17	0 48	21 41	0 33	17 45	5 40	10 59	11 19	4 43	16 34	6 55					
W10	13 12	18 34	3 17	2 6	4 10	10 0	1 25	28 32	5 22	11 58	1 23	14 55	1 18	10 18	0 48	21 40	0 33	17 45	5 40	10 58	11 18	4 45	16 35	6 54					
T 11	12 52	19 11	4 5	2 5	4 16	9 31	1 24	28 28	5 20	11 58	1 23	14 52	1 18	10 18	0 48	21 40	0 33	17 45	5 40	10 57	11 16	4 47	16 35	6 54					
F 12	12 32	18 45	4 40	2 7	4 21	9 3	1 24	28 25	5 17	11 58	1 23	14 50	1 18	10 19	0 48	21 40	0 33	17 45	5 40	10 56	11 15	4 49	16 36	6 54					
S 13	12 12	17 21	5 0	2 13	4 24	8 34	1 23	28 22	5 14	11 58	1 23	14 47	1 18	10 20	0 48	21 40	0 33	17 45	5 40	10 53	11 14	4 51	16 36	6 53					
S 14	11 52	15 7	5 4	2 22	4 27	8 5	1 23	28 18	5 12	11 58	1 24	14 45	1 18	10 21	0 48	21 39	0 33	17 45	5 40	10 49	11 13	4 53	16 36	6 53					
M15	11 32	12 13	4 54	2 35	4 27	7 35	1 22	28 14	5 9	11 58	1 24	14 42	1 18	10 22	0 48	21 39	0 33	17 45	5 40	10 46	11 12	4 54	16 37	6 52					
T 16	11 11	8 49	4 30	2 52	4 27	7 6	1 21	28 11	5 6	11 58	1 24	14 40	1 18	10 23	0 48	21 39	0 33	17 45	5 40	10 42	11 11	4 56	16 37	6 52					
W17	10 51	5 6	3 54	3 12	4 24	6 36	1 20	28 7	5 3	11 58	1 24	14 38	1 18	10 24	0 48	21 39	0 33	17 45	5 40	10 38	11 10	4 58	16 38	6 51					
T 18	10 30	1 14	3 8	3 35	4 20	6 6	1 19	28 3	5 1	11 58	1 24	14 35	1 18	10 25	0 48	21 38	0 33	17 45	5 40	10 36	11 9	5 0	16 38	6 51					
F 19	10 9	2n40	2 14	4 2	4 13	5 36	1 18	27 59	4 58	11 57	1 25	14 33	1 19	10 26	0 48	21 38	0 33	17 45	5 40	10 34	11 7	5 2	16 39	6 50					
S 20	9 47	6 25	1 14	4 31	4 5	5 6	1 17	27 55	4 55	11 57	1 25	14 30	1 19	10 26	0 48	21 38	0 33	17 44	5 40	10 32	11 6	5 4	16 39	6 50					
S 21	9 26	9 56	0 12	5 2	3 55	4 36	1 16	27 51	4 52	11 56	1 25	14 28	1 19	10 27	0 48	21 38	0 33	17 44	5 40	10 32	11 5	5 6	16 40	6 50					
M22	9 4	13 3	0s52	5 36	3 43	4 5	1 15	27 46	4 49	11 56	1 25	14 25	1 19	10 28	0 48	21 37	0 33	17 44	5 41	10 32	11 4	5 8	16 40	6 49					
T 23	8 43	15 39	1 54	6 10	3 29	3 35	1 13	27 42	4 46	11 55	1 25	14 23	1 19	10 29	0 48	21 37	0 33	17 44	5 41	10 33	11 3	5 9	16 41	6 49					
W24	8 21	17 37	2 52	6 45	3 13	3 4	1 12	27 37	4 44	11 55	1 26	14 20	1 19	10 30	0 48	21 37	0 33	17 44	5 41	10 33	11 2	5 11	16 41	6 48					
T 25	7 59	18 47	3 43	7 20	2 56	2 33	1 11	27 33	4 41	11 54	1 26	14 18	1 19	10 31	0 48	21 37	0 33	17 44	5 41	10 33	11 1	5 13	16 42	6 48					
F 26	7 37	19 2	4 25	7 53	2 38	2 2	1 9	27 28	4 38	11 53	1 26	14 15	1 19	10 32	0 48	21 37	0 33	17 44	5 41	10 33	11 0	5 15	16 42	6 47					
S 27	7 15	18 17	4 55	8 26	2 20	1 31	1 8	27 23	4 35	11 52	1 26	14 13	1 19	10 33	0 48	21 36	0 33	17 44	5 41	10 31	10 58	5 17	16 43	6 47					
S 28	6 52	16 29	5 9	8 56	2 0	1 0	1 6	27 18	4 32	11 51	1 26	14 11	1 19	10 33	0 48	21 36	0 33	17 44	5 41	10 30	10 57	5 19	16 43	6 46					
M29	6 30	13 39	5 5	9 24	1 41	0 29	1 5	27 13	4 29	11 50	1 27	14 8	1 20	10 34	0 48	21 36	0 33	17 44	5 41	10 27	10 56	5 21	16 44	6 46					
T 30	6 7	9 54	4 42	9 48	1 21	0s 2	1 3	27 8	4 26	11 49	1 27	14 6	1 20	10 35	0 48	21 36	0 33	17 44	5 41	10 25	10 55	5 22	16 44	6 45					
W31	5n44	5n27	3s59	10n 9	1 s 2	0s33	1n 1	27s 2	4s23	11n48	1s27	14n 3	1n20	10s36	0s48	21n36	0s33	17n44	5s41	10s23	10s54	5n24	16s45	6n45					

ASTRODIENST EPHEMERIS for the year 1418

geocentric

SEPTEMBER 1418 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	23 13 18	16 ¹⁷ 27'17"	21 ¹⁷ 36	1 ¹⁷ 7	4 ⁵⁸ 58	15 ¹⁵ 15	4 ⁴⁷ R47	26 ²² 22	4 ³⁴ R34	19 ¹³ 13	24 ⁵³ 53	26 ⁴⁶ R46	28 ¹⁴ 14	9 ⁵⁶ 56	2 ³⁰ 30	T 1
F 2	23 17 14	17 ²⁵ 55	6 ⁴⁴ 44	1 ¹⁷ 17	6 ¹² 12	15 ³⁸ 38	4 ⁴⁴ 44	26 ³⁰ 30	4 ³² 32	19 ¹⁴ 14	24 ⁵³ 53	26 ⁴² 42	28 ¹¹ 11	10 ³ 3	2 ³⁰ 30	F 2
S 3	23 21 11	18 ²⁴ 34	21 ⁴⁵ 45	1 ³⁸ 38	7 ²⁷ 27	16 ¹ 1	4 ⁴⁰ 40	26 ³⁷ 37	4 ²⁹ 29	19 ¹⁶ 16	24 ⁵⁴ 54	26 ⁴¹ 41	28 ⁸ 8	10 ¹⁰ 10	2 ³⁰ 30	S 3
S 4	23 25 7	19 ²³ 16	6 ³¹ 31	2 ⁷ 7	8 ⁴¹ 41	16 ²⁴ 24	4 ³⁷ 37	26 ⁴⁴ 44	4 ²⁷ 27	19 ¹⁷ 17	24 ⁵⁴ 54	26 ⁴¹ 41	28 ⁴ 4	10 ¹⁶ 16	2 ³¹ 31	S 4
M 5	23 29 4	20 ²² 00	20 ⁵⁸ 58	2 ⁴⁶ 46	9 ⁵⁵ 55	16 ⁴⁹ 49	4 ³³ 33	26 ⁵¹ 51	4 ²⁵ 25	19 ¹⁸ 18	24 ⁵⁴ 54	26 ⁴² 42	28 ¹ 1	10 ²³ 23	2 ³¹ 31	M 5
T 6	23 33 0	21 ²⁰ 45	5 ¹ 1	3 ³³ 33	11 ⁹ 9	17 ¹³ 13	4 ²⁹ 29	26 ⁵⁹ 59	4 ²³ 23	19 ¹⁹ 19	24 ⁵⁵ 55	26 ⁴⁴ 44	27 ⁵⁸ 58	10 ³⁰ 30	2 ³² 32	T 6
W 7	23 36 57	22 ¹⁹ 32	18 ⁴² 42	4 ²⁹ 29	12 ²³ 23	17 ³⁸ 38	4 ²⁵ 25	27 ⁶ 6	4 ²⁰ 20	19 ²¹ 21	24 ⁵⁵ 55	26 ⁴⁵ 45	27 ⁵⁵ 55	10 ³⁶ 36	2 ³² 32	W 7
T 8	23 40 54	23 ¹⁸ 20	2 ³ 3	5 ³¹ 31	13 ³⁷ 37	18 ⁴ 4	4 ²⁰ 20	27 ¹³ 13	4 ¹⁸ 18	19 ²² 22	24 ⁵⁵ 55	26 ⁴⁴ 44	27 ⁵² 52	10 ⁴³ 43	2 ³³ 33	T 8
F 9	23 44 50	24 ¹⁷ 11	15 ⁰ 0	6 ⁴¹ 41	14 ⁵¹ 51	18 ³⁰ 30	4 ¹⁶ 16	27 ²⁰ 20	4 ¹⁶ 16	19 ²³ 23	24 ⁵⁵ 55	26 ⁴³ 43	27 ⁴⁹ 49	10 ⁵⁰ 50	2 ³³ 33	F 9
S 10	23 48 47	25 ¹⁶ 03	27 ⁴² 42	7 ⁵⁷ 57	16 ⁶ 6	18 ⁵⁶ 56	4 ¹¹ 11	27 ²⁷ 27	4 ¹⁴ 14	19 ²⁴ 24	24 ⁵⁵ 55	26 ³⁹ 39	27 ⁴⁵ 45	10 ⁵⁶ 56	2 ³⁴ 34	S 10
S 11	23 52 43	26 ¹⁴ 57	10 ¹⁰ 10	9 ¹⁸ 18	17 ²⁰ 20	19 ²³ 23	4 ⁶ 6	27 ³⁴ 34	4 ¹² 12	19 ²⁵ 25	24 ⁵⁶ 56	26 ³⁵ 35	27 ⁴² 42	11 ³ 3	2 ³⁵ 35	S 11
M12	23 56 40	27 ¹³ 52	22 ²⁶ 26	10 ⁴⁴ 44	18 ³⁴ 34	19 ⁵⁰ 50	4 ¹ 1	27 ⁴¹ 41	4 ⁹ 9	19 ²⁶ 26	24 ⁵⁶ 56	26 ³⁰ 30	27 ³⁹ 39	11 ¹⁰ 10	2 ³⁶ 36	M12
T 13	0 0 36	28 ¹² 50	4 ³² 32	12 ¹⁴ 14	19 ⁴⁸ 48	20 ¹⁸ 18	3 ⁵⁶ 56	27 ⁴⁸ 48	4 ⁷ 7	19 ²⁷ 27	24 ⁵⁶ 56	26 ²⁵ 25	27 ³⁶ 36	11 ¹⁶ 16	2 ³⁷ 37	T 13
W14	0 4 33	29 ¹¹ 50	16 ³¹ 31	13 ⁴⁷ 47	21 ² 2	20 ⁴⁶ 46	3 ⁵¹ 51	27 ⁵⁵ 55	4 ⁵ 5	19 ²⁸ 28	24 ⁵⁶ 56	26 ²⁰ 20	27 ³³ 33	11 ²³ 23	2 ³⁸ 38	W14
T 15	0 8 29	0 ¹⁰ 51	28 ²⁴ 24	15 ²⁴ 24	22 ¹⁶ 16	21 ¹⁵ 15	3 ⁴⁵ 45	28 ² 2	4 ³ 3	19 ²⁹ 29	24 ⁵⁶ 56	26 ¹⁷ 17	27 ³⁰ 30	11 ²⁹ 29	2 ⁴⁰ 40	T 15
F 16	0 12 26	1 ⁹ 55	10 ¹³ 13	17 ³ 3	23 ³⁰ 30	21 ⁴³ 43	3 ⁴⁰ 40	28 ⁹ 9	4 ¹ 1	19 ³⁰ 30	24 ⁵⁶ 56	26 ¹⁵ 15	27 ²⁶ 26	11 ³⁶ 36	2 ⁴¹ 41	F 16
S 17	0 16 22	2 ⁹ 00	22 ¹ 1	18 ⁴⁴ 44	24 ⁴⁴ 44	22 ¹³ 13	3 ³⁴ 34	28 ¹⁵ 15	3 ⁵⁹ 59	19 ³¹ 31	24 ⁵⁶ 56	26 ¹³ 13	27 ²³ 23	11 ⁴³ 43	2 ⁴² 42	S 17
S 18	0 20 19	3 ⁸ 08	3 ⁴⁹ 49	20 ²⁶ 26	25 ⁵⁸ 58	22 ⁴² 42	3 ²⁸ 28	28 ²² 22	3 ⁵⁷ 57	19 ³² 32	24 ⁵⁶ 56	26 ¹⁴ 14	27 ²⁰ 20	11 ⁴⁹ 49	2 ⁴⁴ 44	S 18
M19	0 24 16	4 ⁷ 18	15 ⁴¹ 41	22 ¹⁰ 10	27 ¹² 12	23 ¹² 12	3 ²² 22	28 ²⁹ 29	3 ⁵⁵ 55	19 ³³ 33	24 ⁵⁶ 56	26 ¹⁵ 15	27 ¹⁷ 17	11 ⁵⁶ 56	2 ⁴⁵ 45	M19
T 20	0 28 12	5 ⁶ 31	27 ³⁹ 39	23 ⁵⁵ 55	28 ²⁷ 27	23 ⁴² 42	3 ¹⁶ 16	28 ³⁵ 35	3 ⁵³ 53	19 ³⁴ 34	24 ⁵⁶ 56	26 ¹⁶ 16	27 ¹⁴ 14	12 ³ 3	2 ⁴⁷ 47	T 20
W21	0 32 9	6 ⁵ 45	9 ¹¹ 48	25 ⁴⁰ 40	29 ⁴¹ 41	24 ¹³ 13	3 ⁹ 9	28 ⁴² 42	3 ⁵¹ 51	19 ³⁵ 35	24 ⁵⁶ 56	26 ¹⁸ 18	27 ¹⁰ 10	12 ⁹ 9	2 ⁴⁸ 48	W21
T 22	0 36 5	7 ⁵ 03	22 ¹¹ 11	27 ²⁵ 25	0 ⁵⁵ 55	24 ⁴³ 43	3 ³ 3	28 ⁴⁹ 49	3 ⁴⁹ 49	19 ³⁶ 36	24 ⁵⁶ 56	26 ¹⁹ 19	27 ⁷ 7	12 ¹⁶ 16	2 ⁵⁰ 50	T 22
F 23	0 40 2	8 ⁴ 22	4 ⁵³ 53	29 ¹¹ 11	2 ⁹ 9	25 ¹⁵ 15	2 ⁵⁶ 56	28 ⁵⁵ 55	3 ⁴⁷ 47	19 ³⁶ 36	24 ⁵⁵ 55	26 ²⁰ 20	27 ⁴ 4	12 ²³ 23	2 ⁵² 52	F 23
S 24	0 43 58	9 ³ 44	17 ⁵⁸ 58	0 ⁵⁷ 57	3 ²³ 23	25 ⁴⁶ 46	2 ⁴⁹ 49	29 ² 2	3 ⁴⁶ 46	19 ³⁷ 37	24 ⁵⁵ 55	26 ²⁰ 20	27 ¹ 1	12 ²⁹ 29	2 ⁵⁴ 54	S 24
S 25	0 47 55	10 ³ 08	1 ²⁹ 29	2 ⁴² 42	4 ³⁷ 37	26 ¹⁸ 18	2 ⁴³ 43	29 ⁸ 8	3 ⁴⁴ 44	19 ³⁸ 38	24 ⁵⁵ 55	26 ¹⁹ 19	26 ⁵⁸ 58	12 ³⁶ 36	2 ⁵⁶ 56	S 25
M26	0 51 51	11 ² 34	15 ²⁷ 27	4 ²⁸ 28	5 ⁵¹ 51	26 ⁵⁰ 50	2 ³⁶ 36	29 ¹⁴ 14	3 ⁴² 42	19 ³⁸ 38	24 ⁵⁵ 55	26 ¹⁷ 17	26 ⁵⁵ 55	12 ⁴³ 43	2 ⁵⁸ 58	M26
T 27	0 55 48	12 ² 03	29 ⁵¹ 51	6 ¹³ 13	7 ⁵ 5	27 ²² 22	2 ²⁸ 28	29 ²¹ 21	3 ⁴⁰ 40	19 ³⁹ 39	24 ⁵⁵ 55	26 ¹⁵ 15	26 ⁵¹ 51	12 ⁴⁹ 49	3 ⁰ 0	T 27
W28	0 59 45	13 ¹ 34	14 ¹⁷ 39	7 ⁵⁷ 57	8 ¹⁹ 19	27 ⁵⁵ 55	2 ²¹ 21	29 ²⁷ 27	3 ³⁹ 39	19 ³⁹ 39	24 ⁵⁴ 54	26 ¹⁴ 14	26 ⁴⁸ 48	12 ⁵⁶ 56	3 ² 2	W28
T 29	1 3 41	14 ¹ 07	29 ⁴⁴ 44	9 ⁴¹ 41	9 ³³ 33	28 ²⁸ 28	2 ¹⁴ 14	29 ³³ 33	3 ³⁷ 37	19 ⁴⁰ 40	24 ⁵⁴ 54	26 ¹² 12	26 ⁴⁵ 45	13 ³ 3	3 ⁵ 5	T 29
F 30	1 7 38	15 ⁰ 43	14 ⁵⁷ 57	11 ²⁵ 25	10 ⁴⁷ 47	29 ¹ 1	2 ⁸ 8	29 ³⁹ 39	3 ³⁵ 35	19 ⁴¹ 41	24 ⁵⁴ 54	26 ¹¹ 11	26 ⁴² 42	13 ⁹ 9	3 ⁷ 7	F 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
T 1	5n22	0n36	2s59	10n27	0s43	1s 4	0n59	26s57	4s20	11n47	1s27	14n 1	1n20	10s37	0s48	21n35	0s33	17n44	5s41	10s21	10s53	5n26	16s45	6n44			
F 2	4 59	4s19	1 47	10 40	0 25	1 35	0 58	26 51	4 17	11 46	1 27	13 59	1 20	10 38	0 48	21 35	0 33	17 44	5 41	10 20	10 52	5 28	16 46	6 44			
S 3	4 36	8 55	0 27	10 49	0 7	2 7	0 56	26 46	4 15	11 45	1 28	13 56	1 20	10 39	0 48	21 35	0 33	17 44	5 41	10 19	10 50	5 30	16 46	6 43			
S 4	4 13	12 54	0n53	10 53	0n 9	2 38	0 54	26 40	4 12	11 43	1 28	13 54	1 20	10 39	0 48	21 35	0 33	17 44	5 41	10 19	10 49	5 32	16 47	6 43			
M 5	3 50	15 59	2 9	10 54	0 24	3 9	0 52	26 34	4 9	11 42	1 28	13 51	1 20	10 40	0 48	21 35	0 33	17 44	5 42	10 20	10 48	5 34	16 47	6 42			
T 6	3 27	18 1	3 14	10 50	0 38	3 40	0 50	26 28	4 6	11 40	1 28	13 49	1 21	10 41	0 48	21 34	0 33	17 43	5 42	10 20	10 47	5 35	16 48	6 42			
W 7	3 3	18 56	4 7	10 42	0 51	4 11	0 48	26 22	4 3	11 39	1 28	13 47	1 21	10 42	0 48	21 34	0 33	17 43	5 42	10 21	10 46	5 37	16 48	6 41			
T 8	2 40	18 46	4 44	10 29	1 3	4 42	0 45	26 15	4 0	11 37	1 28	13 44	1 21	10 43	0 48	21 34	0 33	17 43	5 42	10 20	10 45	5 39	16 49	6 41			
F 9	2 17	17 35	5 6	10 13	1 13	5 12	0 43	26 9	3 57	11 36	1 29	13 42	1 21	10 43	0 48	21 34	0 33	17 43	5 42	10 20	10 44	5 41	16 49	6 40			
S 10	1 53	15 34	5 13	9 53	1 22	5 43	0 41	26 2	3 54	11 34	1 29	13 40	1 21	10 44	0 48	21 34	0 33	17 43	5 42	10 19	10 42	5 43	16 50	6 40			
S 11	1 30	12 52	5 4	9 30	1 30	6 14	0 39	25 56	3 52	11 32	1 29	13 37	1 21	10 45	0 48	21 34	0 33	17 43	5 42	10 17	10 41	5 45	16 50	6 39			
M12	1 6	9 38	4 42	9 4	1 37	6 44	0 37	25 49	3 49	11 30	1 29	13 35	1 21	10 46	0 48	21 33	0 33	17 43	5 42	10 15	10 40	5 46	16 51	6 39			
T 13	0 43	6 3	4 7	8 34	1 43	7 14	0 34	25 42	3 46	11 28	1 29	13 33	1 21	10 47	0 48	21 33	0 33	17 43	5 42	10 13	10 39	5 48	16 51	6 38			
W14	0 19	2 15	3 21	8 2	1 47	7 45	0 32	25 35	3 43	11 26	1 29	13 31	1 22	10 47	0 48	21 33	0 33	17 43	5 42	10 12	10 38	5 50	16 52	6 38			
T 15	0s 4	1n37	2 27	7 28	1 50	8 15	0 29	25 27	3 40	11 24	1 29	13 28	1 22	10 48	0 48	21 33	0 33	17 43	5 42	10 10	10 37	5 52	16 52	6 37			
F 16	0 28	5 24	1 27	6 52	1 53	8 44	0 27	25 20	3 38	11 22	1 29	13 26	1 22	10 49	0 48	21 33	0 33	17 43	5 42	10 10	10 36	5 54	16 52	6 37			
S 17	0 51	8 58	0 23	6 13	1 54	9 14	0 24	25 13	3 35	11 20	1 30	13 24	1 22	10 50	0 48	21 33	0 33	17 43	5 43	10 9	10 34	5 56	16 53	6 36			
S 18	1 15	12 10	0s42	5 33	1 55	9 43	0 22	25 5	3 32	11 18	1 30	13 22	1 22	10 50	0 48	21 32	0 33	17 43	5 43	10 9	10 33	5 57	16 53	6 36			
M19	1 39	14 54	1 45	4 52	1 55	10 13	0 19	24 57	3 29	11 16	1 30	13 19	1 22	10 51	0 48	21 32	0 33	17 42	5 43	10 10	10 32	5 59	16 54	6 35			
T 20	2 2	17 1	2 45	4 10	1 54	10 42	0 17	24 49	3 27	11 14	1 30	13 17	1 22	10 52	0 48	21 32	0 33	17 42	5 43	10 10	10 31	6 1	16 54	6 35			
W21	2 26	18 23	3 38	3 27	1 52	11 10	0 14	24 41	3 24	11 12	1 30	13 15	1 23	10 52	0 48	21 32	0 33	17 42	5 43	10 11	10 30	6 3	16 55	6 34			
T 22	2 49	18 55	4 22	2 43	1 50	11 39	0 12	24 33	3 21	11 9	1 30	13 13	1 23	10 53	0 48	21 32	0 33	17 42	5 43	10 11	10 29	6 5	16 55	6 34			
F 23	3 13	18 31	4 55	1 58	1 47	12 7	0 9	24 24	3 19	11 7	1 30	13 11	1 23	10 54	0 48	21 32	0 33	17 42	5 43	10 12	10 28	6 7	16 56	6 33			
S 24	3 36	17 7	5 13	1 13	1 44	12 35	0 6	24 16	3 16	11 5	1 30	13 9	1 23	10 54	0 48	21 32	0 33	17 42	5 43	10 11	10 26	6 8	16 56	6 33			
S 25	4 0	14 46	5 16	0 27	1 40	13 3	0 3	24 7	3 13	11 2	1 30	13 7	1 23	10 55	0 48	21 32	0 33	17 42	5 43	10 11	10 25	6 10	16 57	6 32			
M26	4 23	11 29	4 59	0s18	1 36	13 30	0 1	23 58	3 11	11 0	1 30	13 4	1 23	10 56	0 48	21 32	0 33	17 42	5 43	10 11	10 24	6 12	16 57	6 32			
T 27	4 46	7 26	4 24	1 4	1 32	13 57	0s 2	23 49	3 8	10 57	1 30	13 2	1 24	10 56	0 48	21 31	0 33	17 42	5 43	10 10	10 23	6 14	16 57	6 31			
W28	5 10	2 49	3 31	1 50	1 27	14 24	0 5	23 40	3 6	10 55	1 30	13 0	1 24	10 57	0 48	21 31	0 33	17 42	5 43	10 9	10 22	6 16	16 58	6 31			
T 29	5 33	2s 4	2 22	2 36	1 22	14 50	0 7	23 31	3 3	10 52	1 31	12 58	1 24	10 57	0 48	21 31	0 33	17 42	5 43	10 9	10 21	6 17	16 58	6 30			
F 30	5s56	6s52	1s 2	3s21	1n17	15s16	0s10	23s22	3s 0	10n50	1s31	12n56	1n24	10s58	0s48	21n31	0s33	17n42	5s44	10s 8	10s20	6n19	16s59	6n30			

ASTRODIENST EPHEMERIS for the year 1418

geocentric

OCTOBER 1418 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	1 11 34	16♌ 0'20	0♍ 8	13♌ 8	12♍ 1	29♌34	1°R59	29♌45	3°R34	19♌41	24°R54	26°D11	26♌39	13°Y16	3♌ 9	S 1
S 2	1 15 31	16°59'59	15° 9	14°50	13°15	0♌ 8	1♌51	29°51	3♌32	19°41	24°II53	26♌12	26°35	13°23	3°12	S 2
M 3	1 19 27	17°59'41	29°50	16°32	14°29	0°42	1°44	29°57	3°31	19°42	24°53	26°12	26°32	13°29	3°15	M 3
T 4	1 23 24	18°59'24	14♌ 8	18°14	15°43	1°16	1°36	0♌ 3	3°29	19°42	24°53	26°13	26°29	13°36	3°17	T 4
W 5	1 27 20	19°59'09	27°59	19°54	16°57	1°51	1°28	0° 9	3°28	19°43	24°52	26°14	26°26	13°42	3°20	W 5
T 6	1 31 17	20°58'56	11♌24	21°34	18°11	2°25	1°20	0°15	3°26	19°43	24°52	26°14	26°23	13°49	3°23	T 6
F 7	1 35 14	21°58'44	24°25	23°14	19°24	3° 0	1°12	0°20	3°25	19°43	24°51	26°R14	26°20	13°56	3°26	F 7
S 8	1 39 10	22°58'34	7♌ 4	24°53	20°38	3°35	1° 4	0°26	3°24	19°43	24°51	26°14	26°16	14° 2	3°29	S 8
S 9	1 43 7	23°58'26	19°26	26°31	21°52	4°10	0°56	0°32	3°22	19°44	24°50	26°14	26°13	14° 9	3°32	S 9
M10	1 47 3	24°58'19	1♌34	28° 9	23° 6	4°46	0°48	0°37	3°21	19°44	24°50	26°13	26°10	14°16	3°35	M10
T 11	1 51 0	25°58'15	13°32	29°46	24°20	5°22	0°40	0°42	3°20	19°44	24°49	26°D13	26° 7	14°22	3°38	T 11
W12	1 54 56	26°58'11	25°23	1♌23	25°34	5°58	0°32	0°48	3°19	19°44	24°49	26°13	26° 4	14°29	3°41	W12
T 13	1 58 53	27°58'10	7°Y12	2°59	26°48	6°34	0°24	0°53	3°18	19°44	24°48	26°14	26° 1	14°36	3°44	T 13
F 14	2 2 49	28°58'11	19° 0	4°35	28° 2	7°10	0°16	0°58	3°17	19°44	24°48	26°14	25°57	14°42	3°48	F 14
S 15	2 6 46	29°58'13	0♌50	6°10	29°15	7°46	0° 7	1° 3	3°16	19°R44	24°47	26°R14	25°54	14°49	3°51	S 15
S 16	2 10 42	0♌58'17	12°43	7°45	0♌29	8°23	29°Y59	1° 8	3°15	19°44	24°46	26°13	25°51	14°56	3°54	S 16
M17	2 14 39	1°58'24	24°43	9°19	1°43	9° 0	29°51	1°13	3°14	19°44	24°46	26°13	25°48	15° 2	3°58	M17
T 18	2 18 36	2°58'32	6♌50	10°53	2°57	9°36	29°43	1°18	3°13	19°44	24°45	26°12	25°45	15° 9	4° 2	T 18
W19	2 22 32	3°58'42	19° 8	12°27	4°10	10°14	29°35	1°23	3°12	19°44	24°44	26°11	25°41	15°16	4° 5	W19
T 20	2 26 29	4°58'55	1♌39	14° 0	5°24	10°51	29°27	1°28	3°11	19°44	24°44	26°10	25°38	15°22	4° 9	T 20
F 21	2 30 25	5°59'09	14°25	15°33	6°38	11°28	29°19	1°32	3°11	19°43	24°43	26° 9	25°35	15°29	4°13	F 21
S 22	2 34 22	6°59'26	27°28	17° 5	7°52	12° 6	29°11	1°37	3°10	19°43	24°42	26° 8	25°32	15°35	4°17	S 22
S 23	2 38 18	7°59'44	10♌52	18°37	9° 5	12°43	29° 3	1°42	3° 9	19°43	24°41	26°D 8	25°29	15°42	4°20	S 23
M24	2 42 15	9° 0'05	24°38	20° 9	10°19	13°21	28°55	1°46	3° 9	19°43	24°41	26° 9	25°26	15°49	4°24	M24
T 25	2 46 11	10° 0'27	8♌46	21°41	11°33	13°59	28°47	1°50	3° 8	19°42	24°40	26°10	25°22	15°55	4°28	T 25
W26	2 50 8	11° 0'51	23°16	23°12	12°46	14°37	28°39	1°55	3° 8	19°42	24°39	26°11	25°19	16° 2	4°33	W26
T 27	2 54 5	12° 1'18	8♌ 3	24°42	14° 0	15°15	28°31	1°59	3° 7	19°42	24°38	26°12	25°16	16° 9	4°37	T 27
F 28	2 58 1	13° 1'46	23° 3	26°13	15°13	15°53	28°24	2° 3	3° 7	19°41	24°37	26°R12	25°13	16°15	4°41	F 28
S 29	3 1 58	14° 2'16	8♌ 8	27°43	16°27	16°32	28°16	2° 7	3° 7	19°41	24°37	26°12	25°10	16°22	4°45	S 29
S 30	3 5 54	15° 2'48	23° 7	29°12	17°41	17°10	28° 9	2°11	3° 6	19°40	24°36	26°11	25° 7	16°29	4°49	S 30
M31	3 9 51	16♌ 3'21	7♌54	0♌42	18♌54	17♌49	28°Y 1	2♌14	3♌ 6	19♌40	24°II35	26♌ 9	25♌ 3	16°Y35	4♌54	M31

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
S 1	6s19	11s13	0n22	4s 7	1n11	15s42	0s13	23s12	2s58	10n47	1s31	12n54	1n24	10s58	0s48	21n31	0s33	17n41	5s44	10s 8	10s18	6n21	16s59	6n30			
S 2	6 42	14 47	1 43	4 52	1 5	16 7	0 16	23 2	2 55	10 44	1 31	12 52	1 24	10 59	0 48	21 31	0 33	17 41	5 44	10 9	10 17	6 23	16 59	6 29			
M 3	7 5	17 18	2 56	5 36	0 59	16 32	0 19	22 52	2 53	10 42	1 31	12 50	1 25	10 59	0 48	21 31	0 33	17 41	5 44	10 9	10 16	6 25	17 0	6 29			
T 4	7 28	18 39	3 56	6 21	0 53	16 56	0 21	22 42	2 50	10 39	1 31	12 49	1 25	11 0	0 48	21 31	0 33	17 41	5 44	10 9	10 15	6 26	17 0	6 28			
W 5	7 50	18 49	4 40	7 5	0 47	17 20	0 24	22 32	2 48	10 36	1 31	12 47	1 25	11 0	0 48	21 31	0 33	17 41	5 44	10 9	10 14	6 28	17 1	6 28			
T 6	8 13	17 55	5 8	7 48	0 41	17 44	0 27	22 22	2 45	10 33	1 31	12 45	1 25	11 1	0 48	21 31	0 33	17 41	5 44	10 9	10 13	6 30	17 1	6 27			
F 7	8 35	16 5	5 18	8 32	0 34	18 7	0 30	22 11	2 43	10 31	1 31	12 43	1 25	11 1	0 48	21 31	0 33	17 41	5 44	10 9	10 11	6 32	17 1	6 27			
S 8	8 58	13 31	5 12	9 14	0 28	18 29	0 33	22 1	2 40	10 28	1 31	12 41	1 25	11 2	0 48	21 31	0 33	17 41	5 44	10 9	10 10	6 34	17 2	6 26			
S 9	9 20	10 24	4 52	9 56	0 21	18 52	0 35	21 50	2 38	10 25	1 31	12 39	1 26	11 2	0 48	21 31	0 33	17 41	5 44	10 9	10 9	6 35	17 2	6 26			
M10	9 42	6 54	4 20	10 38	0 14	19 13	0 38	21 39	2 36	10 22	1 31	12 38	1 26	11 3	0 47	21 31	0 33	17 41	5 44	10 9	10 8	6 37	17 2	6 26			
T 11	10 4	3 10	3 36	11 18	0 8	19 34	0 41	21 28	2 33	10 20	1 30	12 36	1 26	11 3	0 47	21 31	0 33	17 41	5 44	10 9	10 7	6 39	17 3	6 25			
W12	10 25	0n40	2 43	11 59	0 1	19 55	0 44	21 17	2 31	10 17	1 30	12 34	1 26	11 3	0 47	21 31	0 33	17 41	5 44	10 9	10 6	6 41	17 3	6 25			
T 13	10 47	4 27	1 44	12 38	0s 6	20 15	0 47	21 5	2 29	10 14	1 30	12 32	1 26	11 4	0 47	21 31	0 33	17 40	5 44	10 9	10 5	6 43	17 3	6 24			
F 14	11 8	8 5	0 40	13 17	0 13	20 35	0 49	20 54	2 26	10 11	1 30	12 31	1 27	11 4	0 47	21 31	0 33	17 40	5 44	10 9	10 3	6 44	17 4	6 24			
S 15	11 30	11 24	0s26	13 55	0 19	20 54	0 52	20 42	2 24	10 8	1 30	12 29	1 27	11 5	0 47	21 31	0 33	17 40	5 45	10 9	10 2	6 46	17 4	6 23			
S 16	11 51	14 16	1 30	14 33	0 26	21 12	0 55	20 30	2 22	10 6	1 30	12 27	1 27	11 5	0 47	21 31	0 33	17 40	5 45	10 9	10 1	6 48	17 4	6 23			
M17	12 12	16 33	2 32	15 9	0 33	21 30	0 57	20 18	2 19	10 3	1 30	12 26	1 27	11 5	0 47	21 31	0 33	17 40	5 45	10 9	10 0	6 50	17 5	6 23			
T 18	12 32	18 7	3 27	15 45	0 39	21 48	1 0	20 6	2 17	10 0	1 30	12 24	1 27	11 5	0 47	21 31	0 33	17 40	5 45	10 9	9 59	6 52	17 5	6 22			
W19	12 53	18 51	4 14	16 21	0 46	22 4	1 3	19 54	2 15	9 57	1 30	12 23	1 28	11 6	0 47	21 31	0 33	17 40	5 45	10 8	9 58	6 53	17 5	6 22			
T 20	13 13	18 41	4 49	16 55	0 52	22 20	1 5	19 41	2 13	9 55	1 30	12 21	1 28	11 6	0 47	21 31	0 33	17 40	5 45	10 8	9 56	6 55	17 6	6 21			
F 21	13 33	17 35	5 11	17 29	0 58	22 36	1 8	19 29	2 10	9 52	1 30	12 20	1 28	11 6	0 47	21 31	0 33	17 40	5 45	10 8	9 55	6 57	17 6	6 21			
S 22	13 53	15 32	5 17	18 1	1 5	22 51	1 10	19 16	2 8	9 49	1 30	12 18	1 28	11 6	0 47	21 31	0 33	17 40	5 45	10 7	9 54	6 59	17 6	6 21			
S 23	14 13	12 38	5 7	18 33	1 11	23 5	1 13	19 3	2 6	9 46	1 29	12 17	1 28	11 7	0 47	21 31	0 33	17 40	5 45	10 7	9 53	7 0	17 6	6 20			
M24	14 32	8 58	4 39	19 4	1 17	23 18	1 15	18 50	2 4	9 44	1 29	12 16	1 29	11 7	0 47	21 31	0 33	17 40	5 45	10 7	9 52	7 2	17 7	6 20			
T 25	14 52	4 42	3 54	19 34	1 22	23 31	1 18	18 37	2 2	9 41	1 29	12 14	1 29	11 7	0 47	21 31	0 33	17 39	5 45	10 8	9 51	7 4	17 7	6 20			
W26	15 11	0 2	2 53	20 3	1 28	23 44	1 20	18 24	2 0	9 39	1 29	12 13	1 29	11 7	0 47	21 31	0 33	17 39	5 45	10 8	9 49	7 6	17 7	6 19			
T 27	15 29	4s43	1 39	20 31	1 34	23 55	1 23	18 11	1 57	9 36	1 29	12 12	1 29	11 7	0 47	21 31	0 33	17 39	5 45	10 9	9 48	7 7	17 7	6 19			
F 28	15 48	9 15	0 17	20 58	1 39	24 6	1 25	17 57	1 55	9 33	1 29	12 10	1 30	11 7	0 47	21 31	0 33	17 39	5 45	10 9	9 47	7 9	17 7	6 19			
S 29	16 6	13 13	1n 6	21 24	1 44	24 16	1 27	17 44	1 53	9 31	1 29	12 9	1 30	11 7	0 47	21 31	0 33	17 39	5 45	10 9	9 46	7 11	17 8	6 18			
S 30	16 24	16 18	2 24	21 49	1 49	24 25	1 29	17 30	1 51	9 28	1 28	12 8	1 30	11 7	0 47	21 31	0 33	17 39	5 45	10 8	9 45	7 13	17 8	6 18			
M31	16s42	18s14	3n31	22s13	1s54	24s34	1s32	17s16	1s49	9n26	1s28	12n 7	1n30	11s 7	0s47	21n31	0s33	17n39	5s45	10s 7	9s44	7n14	17s 8	6n18			

ASTRODIENST EPHEMERIS for the year 1418

geocentric

NOVEMBER 1418 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	3 13 47	17° 3'56	22° 21'	2° 11'	20° 8'	18° 28'	27° 54'	2° 18'	3° 6'	19° 39'	24° 34'	26° 6'	25° 0'	16° 42'	4° 58'	T 1
W 2	3 17 44	18° 4'32	6° 22'	3° 39'	21° 21'	19° 7'	27° 47'	2° 22'	3° 6'	19° 38'	24° 33'	26° 2'	24° 57'	16° 49'	5° 3'	W 2
T 3	3 21 40	19° 5'09	19° 56'	5° 7'	22° 35'	19° 46'	27° 40'	2° 25'	3° 6'	19° 38'	24° 32'	26° 0'	24° 54'	16° 55'	5° 7'	T 3
F 4	3 25 37	20° 5'48	3° 4'	6° 35'	23° 48'	20° 25'	27° 33'	2° 29'	3° 6'	19° 37'	24° 31'	25° 57'	24° 51'	17° 2'	5° 12'	F 4
S 5	3 29 34	21° 6'28	15° 46'	8° 2'	25° 2'	21° 4'	27° 26'	2° 32'	3° 6'	19° 36'	24° 30'	25° 56'	24° 47'	17° 8'	5° 16'	S 5
S 6	3 33 30	22° 7'09	28° 8'	9° 28'	26° 15'	21° 43'	27° 19'	2° 35'	3° 6'	19° 36'	24° 29'	25° 56'	24° 44'	17° 15'	5° 21'	S 6
M 7	3 37 27	23° 7'51	10° 14'	10° 54'	27° 28'	22° 23'	27° 13'	2° 38'	3° 6'	19° 35'	24° 28'	25° 57'	24° 41'	17° 22'	5° 25'	M 7
T 8	3 41 23	24° 8'34	22° 9'	12° 19'	28° 42'	23° 2'	27° 6'	2° 41'	3° 6'	19° 34'	24° 27'	25° 59'	24° 38'	17° 28'	5° 30'	T 8
W 9	3 45 20	25° 9'18	3° 18'	13° 43'	29° 55'	23° 42'	27° 0'	2° 44'	3° 6'	19° 33'	24° 26'	26° 1'	24° 35'	17° 35'	5° 35'	W 9
T 10	3 49 16	26° 10'03	15° 45'	15° 6'	1° 8'	24° 21'	26° 54'	2° 47'	3° 7'	19° 33'	24° 25'	26° 3'	24° 32'	17° 42'	5° 40'	T 10
F 11	3 53 13	27° 10'50	27° 34'	16° 28'	2° 22'	25° 1'	26° 48'	2° 50'	3° 7'	19° 32'	24° 24'	26° 3'	24° 28'	17° 48'	5° 45'	F 11
S 12	3 57 9	28° 11'37	9° 28'	17° 48'	3° 35'	25° 41'	26° 42'	2° 52'	3° 7'	19° 31'	24° 23'	26° 2'	24° 25'	17° 55'	5° 49'	S 12
S 13	4 1 6	29° 12'26	21° 30'	19° 8'	4° 48'	26° 21'	26° 36'	2° 55'	3° 8'	19° 30'	24° 22'	25° 59'	24° 22'	18° 2'	5° 54'	S 13
M14	4 5 3	0° 13'16	3° 11'	20° 25'	6° 1'	27° 1'	26° 30'	2° 57'	3° 8'	19° 29'	24° 21'	25° 55'	24° 19'	18° 8'	5° 59'	M14
T 15	4 8 59	1° 14'07	16° 5'	21° 41'	7° 14'	27° 41'	26° 25'	2° 59'	3° 9'	19° 28'	24° 20'	25° 49'	24° 16'	18° 15'	6° 4'	T 15
W16	4 12 56	2° 14'59	28° 40'	22° 54'	8° 27'	28° 21'	26° 20'	3° 2'	3° 9'	19° 27'	24° 19'	25° 43'	24° 12'	18° 22'	6° 9'	W16
T 17	4 16 52	3° 15'53	11° 27'	24° 5'	9° 40'	29° 1'	26° 15'	3° 4'	3° 10'	19° 26'	24° 18'	25° 36'	24° 9'	18° 28'	6° 14'	T 17
F 18	4 20 49	4° 16'48	24° 27'	25° 12'	10° 53'	29° 41'	26° 10'	3° 6'	3° 11'	19° 25'	24° 16'	25° 30'	24° 6'	18° 35'	6° 20'	F 18
S 19	4 24 45	5° 17'44	7° 40'	26° 17'	12° 6'	0° 21'	26° 5'	3° 8'	3° 12'	19° 24'	24° 15'	25° 25'	24° 3'	18° 42'	6° 25'	S 19
S 20	4 28 42	6° 18'41	21° 6'	27° 17'	13° 19'	1° 2'	26° 1'	3° 9'	3° 12'	19° 23'	24° 14'	25° 22'	24° 0'	18° 48'	6° 30'	S 20
M21	4 32 38	7° 19'40	4° 47'	28° 13'	14° 32'	1° 42'	25° 56'	3° 11'	3° 13'	19° 21'	24° 13'	25° 21'	23° 57'	18° 55'	6° 35'	M21
T 22	4 36 35	8° 20'40	18° 43'	29° 3'	15° 45'	2° 22'	25° 52'	3° 13'	3° 14'	19° 20'	24° 12'	25° 21'	23° 53'	19° 1'	6° 40'	T 22
W23	4 40 32	9° 21'41	2° 45'	29° 48'	16° 58'	3° 3'	25° 48'	3° 14'	3° 15'	19° 19'	24° 11'	25° 22'	23° 50'	19° 8'	6° 46'	W23
T 24	4 44 28	10° 22'43	17° 18'	0° 26'	18° 10'	3° 43'	25° 44'	3° 15'	3° 16'	19° 18'	24° 10'	25° 24'	23° 47'	19° 15'	6° 51'	T 24
F 25	4 48 25	11° 23'46	1° 53'	0° 56'	19° 23'	4° 24'	25° 41'	3° 17'	3° 17'	19° 17'	24° 8'	25° 24'	23° 44'	19° 21'	6° 56'	F 25
S 26	4 52 21	12° 24'51	16° 35'	1° 18'	20° 36'	5° 5'	25° 37'	3° 18'	3° 18'	19° 15'	24° 7'	25° 22'	23° 41'	19° 28'	7° 2'	S 26
S 27	4 56 18	13° 25'56	1° 17'	1° 31'	21° 48'	5° 45'	25° 34'	3° 19'	3° 19'	19° 14'	24° 6'	25° 18'	23° 38'	19° 35'	7° 7'	S 27
M28	5 0 14	14° 27'02	15° 52'	1° 34'	23° 1'	6° 26'	25° 31'	3° 20'	3° 21'	19° 13'	24° 5'	25° 11'	23° 34'	19° 41'	7° 12'	M28
T 29	5 4 11	15° 28'09	0° 13'	1° 26'	24° 13'	7° 7'	25° 28'	3° 20'	3° 22'	19° 11'	24° 4'	25° 3'	23° 31'	19° 48'	7° 18'	T 29
W30	5 8 8	16° 29'16	14° 14'	1° 6'	25° 26'	7° 48'	25° 26'	3° 21'	3° 23'	19° 10'	24° 2'	25° 4'	23° 28'	19° 55'	7° 23'	W30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	16s59	18s55	4n23	22s36	1s58	24s42	1s34	17s 2	1s47	9n23	1s28	12n 6	1n30	11s 7	0s47	21n31
W 2	17 16	18 25	4 57	22 57	2 3	24 49	1 36	16 48	1 45	9 21	1 28	12 5	1 31	11 7	0 47	21 31
T 3	17 33	16 51	5 14	23 18	2 7	24 56	1 38	16 34	1 43	9 19	1 28	12 3	1 31	11 7	0 47	21 31
F 4	17 49	14 27	5 13	23 37	2 10	25 2	1 40	16 19	1 41	9 16	1 27	12 2	1 31	11 7	0 47	21 31
S 5	18 5	11 26	4 57	23 55	2 14	25 7	1 42	16 5	1 39	9 14	1 27	12 1	1 31	11 7	0 47	21 32
S 6	18 21	7 59	4 27	24 11	2 17	25 11	1 44	15 50	1 37	9 12	1 27	12 1	1 32	11 7	0 47	21 32
M 7	18 37	4 16	3 46	24 27	2 19	25 15	1 45	15 36	1 35	9 10	1 27	12 0	1 32	11 7	0 46	21 32
T 8	18 52	0 26	2 56	24 41	2 22	25 17	1 47	15 21	1 33	9 8	1 27	11 59	1 32	11 7	0 46	21 32
W 9	19 7	3n24	1 58	24 54	2 24	25 20	1 49	15 6	1 31	9 6	1 26	11 58	1 32	11 7	0 46	21 32
T 10	19 21	7 5	0 56	25 5	2 25	25 21	1 50	14 51	1 30	9 4	1 26	11 57	1 33	11 7	0 46	21 32
F 11	19 35	10 31	0s 8	25 15	2 26	25 21	1 52	14 36	1 28	9 2	1 26	11 56	1 33	11 7	0 46	21 32
S 12	19 49	13 32	1 13	25 23	2 27	25 21	1 53	14 21	1 26	9 0	1 26	11 56	1 33	11 7	0 46	21 32
S 13	20 3	16 1	2 15	25 30	2 27	25 20	1 55	14 5	1 24	8 58	1 25	11 55	1 33	11 6	0 46	21 32
M14	20 16	17 49	3 11	25 35	2 26	25 18	1 56	13 50	1 22	8 56	1 25	11 54	1 34	11 6	0 46	21 33
T 15	20 28	18 49	4 0	25 39	2 25	25 16	1 57	13 34	1 20	8 54	1 25	11 54	1 34	11 6	0 46	21 33
W16	20 40	18 53	4 37	25 42	2 23	25 13	1 58	13 19	1 19	8 53	1 25	11 53	1 34	11 6	0 46	21 33
T 17	20 52	18 1	5 1	25 42	2 20	25 9	2 0	13 3	1 17	8 51	1 24	11 53	1 34	11 5	0 46	21 33
F 18	21 4	16 12	5 11	25 42	2 16	25 4	2 1	12 47	1 15	8 50	1 24	11 52	1 35	11 5	0 46	21 33
S 19	21 15	13 31	5 4	25 39	2 12	24 59	2 1	12 31	1 13	8 48	1 24	11 52	1 35	11 5	0 46	21 33
S 20	21 26	10 5	4 40	25 36	2 6	24 52	2 2	12 15	1 12	8 47	1 23	11 51	1 35	11 4	0 46	21 33
M21	21 36	6 3	4 0	25 30	2 0	24 45	2 3	11 59	1 10	8 45	1 23	11 51	1 35	11 4	0 46	21 34
T 22	21 46	1 38	3 6	25 23	1 53	24 38	2 4	11 43	1 8	8 44	1 23	11 51	1 35	11 4	0 46	21 34
W23	21 55	2s58	1 59	25 15	1 44	24 29	2 4	11 27	1 7	8 43	1 23	11 50	1 36	11 3	0 46	21 34
T 24	22 4	7 29	0 44	25 5	1 34	24 20	2 5	11 11	1 5	8 42	1 22	11 50	1 36	11 3	0 46	21 34
F 25	22 13	11 37	0n35	24 54	1 23	24 10	2 5	10 54	1 3	8 41	1 22	11 50	1 36	11 3	0 46	21 34
S 26	22 21	15 3	1 52	24 41	1 11	24 0	2 6	10 38	1 2	8 40	1 22	11 50	1 36	11 2	0 46	21 34
S 27	22 29	17 31	3 1	24 27	0 57	23 49	2 6	10 21	1 0	8 39	1 21	11 49	1 37	11 2	0 46	21 35
M28	22 36	18 49	3 58	24 12	0 42	23 37	2 6	10 5	0 58	8 38	1 21	11 49	1 37	11 1	0 46	21 35
T 29	22 43	18 52	4 39	23 55	0 25	23 24	2 6	9 48	0 57	8 38	1 21	11 49	1 37	11 1	0 46	21 35
W30	22s49	17s45	5n 2	23s38	0s 8	23s11	2s 6	9s32	0s55	8n37	1s21	11n49	1n38	11s 0	0s46	21n35

Julian Day Number = 2239286.5, Delta T = 07m23s

Ecliptic obliquity = 23°30'45", Nutation = 0°00'06", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°37'58", Lahiri = 15°44'59" Julian Calendar 1 Nov. 1418 == Greg. Calendar 10 Nov. 1418

ASTRODIENST EPHEMERIS for the year 1418
geocentric

DECEMBER 1418 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	5 12 4	17°30'24	27°35'1	0°R35	26°38	8°28	25°R23	3°22	3°22	19°R 9	24°R 1	24°R45	23°25	20°Y 1	7°29	T 1
F 2	5 16 1	18°31'32	11°32'2	29°53	27°51	9° 9	25°Y21	3°22	3°26	19°7	24°II 0	24°38	23°22	20° 8	7°34	F 2
S 3	5 19 57	19°32'41	23°49	28°59	29° 3	9°50	25°19	3°22	3°27	19° 6	23°59	24°32	23°18	20°15	7°40	S 3
S 4	5 23 54	20°33'49	6°14	27°55	0°15	10°31	25°17	3°23	3°29	19° 4	23°58	24°29	23°15	20°21	7°45	S 4
M 5	5 27 50	21°34'58	18°22	26°43	1°27	11°12	25°16	3°R23	3°30	19° 3	23°57	24°D27	23°12	20°28	7°51	M 5
T 6	5 31 47	22°36'07	0°Y17	25°25	2°39	11°53	25°14	3°23	3°32	19° 1	23°55	24°27	23° 9	20°35	7°56	T 6
W 7	5 35 43	23°37'16	12° 6	24° 4	3°51	12°34	25°13	3°23	3°33	19° 0	23°54	24°28	23° 6	20°41	8° 2	W 7
T 8	5 39 40	24°38'25	23°53	22°41	5° 3	13°15	25°12	3°22	3°35	18°59	23°53	24°R29	23° 3	20°48	8° 8	T 8
F 9	5 43 37	25°39'35	5°44	21°21	6°15	13°56	25°12	3°22	3°37	18°57	23°52	24°28	22°59	20°54	8°13	F 9
S 10	5 47 33	26°40'44	17°42	20° 5	7°27	14°37	25°11	3°22	3°39	18°55	23°50	24°25	22°56	21° 1	8°19	S 10
S 11	5 51 30	27°41'54	29°53	18°55	8°38	15°19	25°11	3°21	3°40	18°54	23°49	24°20	22°53	21° 8	8°24	S 11
M12	5 55 26	28°43'03	12°II17	17°54	9°50	16° 0	25°D11	3°20	3°42	18°52	23°48	24°12	22°50	21°14	8°30	M12
T 13	5 59 23	29°44'13	24°57	17° 2	11° 1	16°41	25°11	3°20	3°44	18°51	23°47	24° 1	22°47	21°21	8°36	T 13
W14	6 3 19	0°34'523	7°53	16°21	12°13	17°22	25°11	3°19	3°46	18°49	23°46	23°49	22°44	21°28	8°41	W14
T 15	6 7 16	1°46'33	21° 3	15°50	13°24	18° 3	25°12	3°18	3°48	18°48	23°44	23°37	22°40	21°34	8°47	T 15
F 16	6 11 12	2°47'43	4°26	15°29	14°35	18°44	25°12	3°17	3°50	18°46	23°43	23°26	22°37	21°41	8°53	F 16
S 17	6 15 9	3°48'53	18° 0	15°19	15°46	19°26	25°13	3°15	3°52	18°44	23°42	23°16	22°34	21°48	8°58	S 17
S 18	6 19 6	4°50'03	1°43	15°D18	16°57	20° 7	25°14	3°14	3°54	18°43	23°41	23° 9	22°31	21°54	9° 4	S 18
M19	6 23 2	5°51'14	15°32	15°25	18° 8	20°48	25°16	3°13	3°56	18°41	23°40	23° 5	22°28	22° 1	9°10	M19
T 20	6 26 59	6°52'24	29°29	15°41	19°19	21°29	25°17	3°11	3°59	18°39	23°39	23° 4	22°24	22° 8	9°16	T 20
W21	6 30 55	7°53'35	13°31	16° 4	20°29	22°11	25°19	3°10	4° 1	18°38	23°37	23°D 3	22°21	22°14	9°21	W21
T 22	6 34 52	8°54'46	27°39	16°34	21°40	22°52	25°21	3° 8	4° 3	18°36	23°36	23°R 4	22°18	22°21	9°27	T 22
F 23	6 38 48	9°55'57	11°51	17°10	22°50	23°33	25°23	3° 6	4° 5	18°34	23°35	23° 2	22°15	22°27	9°33	F 23
S 24	6 42 45	10°57'08	26° 6	17°51	24° 0	24°15	25°25	3° 4	4° 8	18°33	23°34	22°59	22°12	22°34	9°38	S 24
S 25	6 46 41	11°58'19	10°20	18°38	25°11	24°56	25°28	3° 2	4°10	18°31	23°33	22°53	22° 9	22°41	9°44	S 25
M26	6 50 38	12°59'30	24°30	19°28	26°21	25°37	25°31	3° 0	4°13	18°29	23°32	22°43	22° 5	22°47	9°50	M26
T 27	6 54 35	14° 0'41	8°30	20°23	27°31	26°18	25°34	2°58	4°15	18°28	23°31	22°31	22° 2	22°54	9°55	T 27
W28	6 58 31	15° 1'51	22°16	21°21	28°40	27° 0	25°37	2°55	4°18	18°26	23°29	22°18	21°59	23° 1	10° 1	W28
T 29	7 2 28	16° 3'01	5°43	22°22	29°50	27°41	25°40	2°53	4°20	18°24	23°28	22° 5	21°56	23° 7	10° 7	T 29
F 30	7 6 24	17° 4'10	18°49	23°26	0°59	28°22	25°44	2°50	4°23	18°23	23°27	21°53	21°53	23°14	10°12	F 30
S 31	7 10 21	18°5'18	1°35	24°33	2°9	29°4	25°Y48	2°48	4°25	18°21	23°II26	21°44	21°50	23°Y21	10°18	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	22s55	15s39	5n 6	23s19	0n11	22s57	2s 6	9s15	0s54	8n36	1s20	11n49	1n38	11s 0	0s46	21n35
F 2	23 1	12 47	4 55	23 0	0 31	22 42	2 6	8 58	0 52	8 36	1 20	11 49	1 38	10 59	0 46	21 36
S 3	23 6	9 24	4 28	22 40	0 51	22 27	2 5	8 41	0 51	8 35	1 20	11 50	1 38	10 59	0 45	21 36
S 4	23 11	5 42	3 50	22 19	1 11	22 11	2 5	8 24	0 49	8 35	1 19	11 50	1 39	10 58	0 45	21 36
M 5	23 15	1 50	3 1	21 58	1 30	21 55	2 4	8 7	0 48	8 35	1 19	11 50	1 39	10 57	0 45	21 36
T 6	23 18	2n 3	2 6	21 37	1 49	21 38	2 4	7 50	0 46	8 34	1 19	11 50	1 39	10 57	0 45	21 36
W 7	23 21	5 48	1 6	21 16	2 7	21 20	2 3	7 33	0 45	8 34	1 18	11 50	1 39	10 56	0 45	21 37
T 8	23 24	9 21	0 3	20 56	2 23	21 2	2 2	7 16	0 43	8 34	1 18	11 51	1 40	10 56	0 45	21 37
F 9	23 26	12 32	1s 0	20 38	2 36	20 43	2 1	6 59	0 42	8 34	1 18	11 51	1 40	10 55	0 45	21 37
S 10	23 28	15 14	2 1	20 21	2 47	20 24	2 0	6 41	0 40	8 34	1 17	11 51	1 40	10 54	0 45	21 37
S 11	23 30	17 18	2 57	20 7	2 56	20 4	1 59	6 24	0 39	8 35	1 17	11 52	1 40	10 54	0 45	21 37
M12	23 30	18 36	3 46	19 56	3 3	19 44	1 58	6 7	0 37	8 35	1 17	11 52	1 41	10 53	0 45	21 38
T 13	23 31	19 0	4 25	19 47	3 7	19 23	1 56	5 50	0 36	8 35	1 16	11 53	1 41	10 52	0 45	21 38
W14	23 31	18 26	4 51	19 41	3 9	19 1	1 55	5 32	0 35	8 36	1 16	11 53	1 41	10 51	0 45	21 38
T 15	23 30	16 53	5 2	19 38	3 9	18 39	1 53	5 15	0 33	8 36	1 16	11 54	1 41	10 51	0 45	21 38
F 16	23 29	14 24	4 57	19 37	3 7	18 17	1 52	4 57	0 32	8 37	1 15	11 55	1 42	10 50	0 45	21 39
S 17	23 27	11 7	4 35	19 39	3 4	17 54	1 50	4 40	0 31	8 37	1 15	11 55	1 42	10 49	0 45	21 39
S 18	23 25	7 12	3 57	19 44	2 59	17 31	1 48	4 23	0 29	8 38	1 15	11 56	1 42	10 48	0 45	21 39
M19	23 23	2 52	3 5	19 50	2 53	17 7	1 46	4 5	0 28	8 39	1 15	11 57	1 42	10 47	0 45	21 39
T 20	23 20	1s39	2 2	19 58	2 47	16 43	1 44	3 48	0 27	8 40	1 14	11 58	1 42	10 47	0 45	21 40
W21	23 17	6 7	0 50	20 8	2 40	16 19	1 42	3 30	0 25	8 41	1 14	11 58	1 43	10 46	0 45	21 40
T 22	23 13	10 17	0n24	20 19	2 32	15 54	1 39	3 13	0 24	8 42	1 14	11 59	1 43	10 45	0 45	21 40
F 23	23 8	13 53	1 38	20 30	2 24	15 28	1 37	2 55	0 23	8 43	1 13	12 0	1 43	10 44	0 45	21 40
S 24	23 4	16 39	2 45	20 43	2 15	15 2	1 34	2 37	0 22	8 44	1 13	12 1	1 43	10 43	0 45	21 40
S 25	22 58	18 24	3 43	20 56	2 6	14 36	1 32	2 20	0 20	8 45	1 13	12 2	1 44	10 42	0 45	21 41
M26	22 53	18 59	4 25	21 9	1 57	14 10	1 29	2 2	0 19	8 46	1 12	12 3	1 44	10 41	0 45	21 41
T 27	22 46	18 23	4 52	21 22	1 48	13 43	1 26	1 45	0 18	8 48	1 12	12 4	1 44	10 40	0 45	21 41
W28	22 40	16 43	5 1	21 35	1 39	13 16	1 23	1 27	0 17	8 49	1 12	12 5	1 44	10 39	0 45	21 41
T 29	22 33	14 11	4 52	21 48	1 30	12 49	1 20	1 10	0 16	8 51	1 11	12 6	1 45	10 39	0 45	21 42
F 30	22 25	10 58	4 29	22 1	1 20	12 21	1 17	0 52	0 14	8 52	1 11	12 7	1 45	10 38	0 45	21 42
S 31	22s17	7s20	3n52	22s13	1n11	11s53	1s14	0s35	0s13	8n54	1s11	12n 9	1n45	10s37	0s45	21n42

Julian Day Number = 2239316.5, Delta T = 07m23s
Ecliptic obliquity = 23°30'44, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 16°38'03, Lahiri = 15°45'03 Julian Calendar 1 Dec. 1418 == Greg. Calendar 10 Dec. 1418