



Astrodienst Ephemeris Tables for the year 1438

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 1438

geocentric

JANUARY 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	7 15 51	19°30'15	21°33'	27°32'	20°14'	9°53'	12°46'	2°49'	20°R 5	1°R23	16°R12	13°R53	14°16'	16°11'	5°20'	W 1
T 2	7 19 48	20°31'22	4°32'	27°54'	21°28'	10°14'	12°58'	2°52'	20°B 5	1°17	16°11'	13°51'	14°13'	16°38'	5°22'	T 2
F 3	7 23 44	21°32'28	17° 7	28°22'	22°42'	10°35'	13°10'	2°56'	20° 4	1°21	16°10'	13°51'	14°10'	16°45'	5°23'	F 3
S 4	7 27 41	22°33'32	29°23	28°56'	23°56'	10°57'	13°22'	3° 0	20° 3	1°20	16° 9	13°51'	14° 7	16°52'	5°25'	S 4
S 5	7 31 37	23°34'36	11°25	29°35'	25°10'	11°18'	13°34'	3° 4	20° 2	1°18	16° 7	13°50'	14° 3	16°59'	5°26'	S 5
M 6	7 35 34	24°35'39	23°18	0°19	26°24'	11°41'	13°46'	3° 9	20° 1	1°17	16° 6	13°46'	14° 0	17° 5	5°28'	M 6
T 7	7 39 31	25°36'41	5°11	1° 7	27°38'	12° 3	13°58'	3°13	20° 1	1°16	16° 5	13°40'	13°57'	17°12'	5°30'	T 7
W 8	7 43 27	26°37'42	16°57	1°59	28°51'	12°26'	14°10'	3°17	20° 0	1°14	16° 3	13°31'	13°54'	17°19'	5°31'	W 8
T 9	7 47 24	27°38'42	28°51	2°55	0°11	12°49'	14°21'	3°22	20° 0	1°13	16° 2	13°20'	13°51'	17°25'	5°33'	T 9
F 10	7 51 20	28°39'41	10°50	3°53	1°19	13°13'	14°33'	3°26	19°59	1°12	16° 1	13° 6	13°48'	17°32'	5°35'	F 10
S 11	7 55 17	29°40'39	22°57	4°55	2°32	13°37'	14°44'	3°31	19°59	1°10	16° 0	12°52'	13°44'	17°39'	5°37'	S 11
S 12	7 59 13	0°41'35	5°13	5°59	3°46	14° 1	14°56'	3°36	19°58	1° 9	15°58'	12°39'	13°41'	17°45'	5°39'	S 12
M13	8 3 10	1°42'31	17°38	7° 6	4°59	14°25'	15° 7	3°40	19°58	1° 8	15°57'	12°27'	13°38'	17°52'	5°41'	M13
T 14	8 7 6	2°43'26	0°11	8°14	6°13	14°50'	15°18'	3°45	19°58	1° 6	15°56'	12°18'	13°35'	17°59'	5°43'	T 14
W15	8 11 3	3°44'20	12°58	9°25	7°26	15°15'	15°29'	3°50	19°57	1° 5	15°55'	12°11'	13°32'	18° 6	5°45'	W15
T 16	8 15 0	4°45'13	25°53	10°37	8°39	15°40'	15°40'	3°55	19°57	1° 3	15°53'	12° 7	13°28'	18°12'	5°47'	T 16
F 17	8 18 56	5°46'05	9°12	11°52	9°52	16° 5	15°51'	4° 0	19°57	1° 2	15°52'	12°D 6	13°25'	18°19'	5°49'	F 17
S 18	8 22 53	6°46'56	22°25	13° 8	11° 5	16°31'	16° 2	4° 6	19°57	1° 0	15°51'	12° 6	13°22'	18°26'	5°51'	S 18
S 19	8 26 49	7°47'46	6°11	14°25	12°19	16°57'	16°13'	4°11	19°D57	0°59	15°50'	12°R 7	13°19	18°32'	5°54'	S 19
M20	8 30 46	8°48'35	20° 0	15°44	13°32	17°23'	16°24'	4°16	19°57	0°57	15°49'	12° 6	13°16	18°39'	5°56'	M20
T 21	8 34 42	9°49'24	4°15	17° 4	14°45	17°50'	16°34'	4°22	19°57	0°56	15°47'	12° 4	13°13	18°46'	5°58'	T 21
W22	8 38 39	10°50'11	18°46	18°25	15°58	18°17'	16°45'	4°27	19°57	0°54	15°46'	11°59	13° 9	18°53'	6° 1	W22
T 23	8 42 35	11°50'58	3°29	19°47	17°10	18°43'	16°55'	4°33	19°57	0°53	15°45'	11°52	13° 6	18°59'	6° 3	T 23
F 24	8 46 32	12°51'43	18°18	21°11	18°23	19°11'	17° 6	4°38	19°58	0°51	15°44'	11°43	13° 3	19° 6	6° 6	F 24
S 25	8 50 29	13°52'27	3°11	22°36	19°36	19°38'	17°16'	4°44	19°58	0°50	15°43'	11°33	13° 0	19°13'	6° 8	S 25
S 26	8 54 25	14°53'10	17°41	24° 1	20°49	20° 6	17°26'	4°50	19°58	0°48	15°42'	11°24	12°57	19°19'	6°11	S 26
M27	8 58 22	15°53'51	1°11	25°28	22° 1	20°33'	17°36'	4°55	19°59	0°46	15°40'	11°16	12°54	19°26'	6°13	M27
T 28	9 2 18	16°54'31	15°54	26°56	23°14	21° 1	17°46'	5° 1	19°59	0°45	15°39'	11°11	12°50	19°33'	6°16	T 28
W29	9 6 15	17°55'09	29°23	28°25	24°26	21°30'	17°56'	5° 7	20° 0	0°43	15°38'	11° 8	12°47	19°40'	6°19	W29
T 30	9 10 11	18°55'45	12°26	29°54	25°38	21°58'	18° 5	5°13	20° 0	0°42	15°37'	11°D 8	12°44	19°46'	6°21	T 30
F 31	9 14 8	19°56'19	25°11	1°25	26°11	22°27'	18°15'	5°19	20°B 1	0°40	15°36'	11°11	12°41	19°53'	6°24	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	22s 5	1s36	1n55	20s49	2n40	16s21	1s40	16n21	1n37	21s51	0n33	1s 6	2s25	17n34	0s15	11n44
T 2	21 56	2n34	0 49	20 59	2 31	15 57	1 39	16 29	1 38	21 52	0 33	1 4	2 25	17 34	0 15	11 45
F 3	21 47	6 29	0s17	21 9	2 21	15 32	1 38	16 36	1 38	21 54	0 33	1 2	2 24	17 34	0 15	11 45
S 4	21 37	10 1	1 21	21 19	2 12	15 6	1 37	16 43	1 39	21 55	0 33	1 0	2 24	17 34	0 15	11 46
S 5	21 27	13 4	2 20	21 29	2 2	14 40	1 36	16 50	1 39	21 57	0 33	0 58	2 24	17 34	0 15	11 46
M 6	21 16	15 33	3 13	21 39	1 52	14 14	1 35	16 57	1 39	21 58	0 33	0 56	2 24	17 33	0 15	11 47
T 7	21 5	17 21	3 56	21 49	1 42	13 48	1 33	17 5	1 40	22 0	0 33	0 55	2 23	17 33	0 15	11 47
W 8	20 53	18 24	4 29	21 58	1 31	13 21	1 32	17 12	1 40	22 1	0 33	0 53	2 23	17 33	0 15	11 48
T 9	20 42	18 39	4 51	22 7	1 21	12 53	1 31	17 20	1 41	22 3	0 33	0 51	2 23	17 33	0 15	11 48
F 10	20 29	18 5	5 0	22 16	1 11	12 26	1 29	17 27	1 41	22 4	0 33	0 49	2 23	17 33	0 15	11 49
S 11	20 17	16 41	4 56	22 24	1 2	11 58	1 28	17 35	1 41	22 5	0 33	0 47	2 23	17 33	0 15	11 49
S 12	20 4	14 31	4 38	22 31	0 52	11 30	1 26	17 42	1 41	22 7	0 33	0 45	2 22	17 33	0 15	11 50
M13	19 50	11 41	4 7	22 37	0 42	11 1	1 24	17 50	1 42	22 8	0 33	0 42	2 22	17 33	0 15	11 50
T 14	19 37	8 16	3 23	22 42	0 33	10 32	1 23	17 57	1 42	22 9	0 33	0 40	2 22	17 33	0 15	11 51
W15	19 22	4 26	2 28	22 47	0 24	10 3	1 21	18 5	1 42	22 10	0 33	0 38	2 22	17 33	0 15	11 51
T 16	19 8	0 20	1 25	22 51	0 14	9 34	1 19	18 13	1 42	22 12	0 33	0 36	2 22	17 33	0 15	11 52
F 17	18 53	3s50	0 16	22 53	0 6	9 4	1 17	18 20	1 43	22 13	0 33	0 34	2 21	17 33	0 15	11 52
S 18	18 38	7 54	0n55	22 55	0s 3	8 35	1 15	18 28	1 43	22 14	0 33	0 32	2 21	17 33	0 15	11 53
S 19	18 22	11 38	2 4	22 55	0 11	8 5	1 12	18 36	1 43	22 15	0 33	0 29	2 21	17 33	0 15	11 53
M20	18 7	14 47	3 8	22 54	0 20	7 34	1 10	18 43	1 43	22 16	0 33	0 27	2 21	17 33	0 15	11 54
T 21	17 50	17 7	4 1	22 52	0 28	7 4	1 8	18 51	1 43	22 17	0 33	0 25	2 21	17 33	0 15	11 54
W22	17 34	18 23	4 40	22 49	0 35	6 34	1 5	18 59	1 44	22 18	0 33	0 22	2 20	17 33	0 15	11 55
T 23	17 17	18 27	5 1	22 45	0 43	6 3	1 3	19 6	1 44	22 19	0 33	0 20	2 20	17 33	0 15	11 56
F 24	17 0	17 16	5 2	22 39	0 50	5 32	1 0	19 14	1 44	22 20	0 33	0 18	2 20	17 33	0 15	11 56
S 25	16 43	14 56	4 43	22 33	0 57	5 1	0 58	19 22	1 44	22 21	0 33	0 15	2 20	17 33	0 15	11 57
S 26	16 25	11 40	4 6	22 24	1 3	4 30	0 55	19 29	1 44	22 22	0 33	0 13	2 20	17 33	0 15	11 57
M27	16 7	7 47	3 14	22 15	1 10	3 59	0 52	19 37	1 44	22 23	0 33	0 10	2 20	17 33	0 15	11 58
T 28	15 49	3 34	2 11	22 4	1 16	3 27	0 50	19 45	1 44	22 24	0 33	0 8	2 19	17 33	0 15	11 58
W29	15 30	0n43	1 3	21 52	1 22	2 56	0 47	19 52	1 44	22 25	0 33	0 5	2 19	17 33	0 15	11 59
T 30	15 12	4 49	0s 7	21 39	1 27	2 24	0 44	20 0	1 44	22 26	0 33	0 3	2 19	17 34	0 15	12 0
F 31	14s53	8n35	1s15	21s24	1s32	1s53	0s41	20n 7	1n45	22s27	0n33	0s 0	2s19	17n34	0s15	12n 0

Julian Day Number = 2246287.5, Delta T = 06m50s

Ecliptic obliquity = 23°30'35", Nutation = 0°00'05", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°54'00", Lahiri = 16°01'00" Julian Calendar 1 Jan. 1438 == Greg. Calendar 10 Jan. 1438

ASTRODIENST EPHEMERIS for the year 1438

geocentric

FEBRUARY 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day	
S 1	9 18 4	20°56'52	7°26	2°57	28°3	22°55	18°24	5°25	20°8	0°R38	15°R35	11°10	12°38	20°II	0	6°V27	S 1
S 2	9 22 1	21°57'23	19°32	4°29	29°15	23°24	18°34	5°32	20° 2	0°M37	15°34	11°R10	12°34	20° 6	6°30	S 2	
M 3	9 25 58	22°57'52	1°II27	6° 3	0°V27	23°54	18°43	5°38	20° 3	0°35	15°33	11°10	12°31	20°13	6°33	M 3	
T 4	9 29 54	23°58'19	13°18	7°37	1°39	24°23	18°52	5°44	20° 4	0°33	15°32	11° 8	12°28	20°20	6°35	T 4	
W 5	9 33 51	24°58'44	25°10	9°13	2°50	24°52	19° 1	5°51	20° 5	0°32	15°31	11° 3	12°25	20°27	6°38	W 5	
T 6	9 37 47	25°59'08	7°36	10°49	4° 2	25°22	19°10	5°57	20° 6	0°30	15°30	10°57	12°22	20°33	6°41	T 6	
F 7	9 41 44	26°59'29	19°10	12°26	5°14	25°52	19°19	6° 3	20° 7	0°28	15°29	10°50	12°19	20°40	6°44	F 7	
S 8	9 45 40	27°59'48	1°125	14° 5	6°25	26°22	19°28	6°10	20° 8	0°27	15°28	10°42	12°15	20°47	6°47	S 8	
S 9	9 49 37	29° 0'06	13°52	15°44	7°37	26°52	19°36	6°17	20° 9	0°25	15°27	10°34	12°12	20°53	6°50	S 9	
M10	9 53 33	0°H 0'22	26°32	17°24	8°48	27°22	19°44	6°23	20°10	0°23	15°27	10°26	12° 9	21° 0	6°54	M10	
T 11	9 57 30	1° 0'36	9°M25	19° 5	9°59	27°52	19°53	6°30	20°11	0°22	15°26	10°21	12° 6	21° 7	6°57	T 11	
W12	10 1 27	2° 0'48	22°31	20°48	11°10	28°23	20° 1	6°36	20°12	0°20	15°25	10°18	12° 3	21°14	7° 0	W12	
T 13	10 5 23	3° 0'58	5°150	22°31	12°21	28°53	20° 9	6°43	20°13	0°18	15°24	10°D16	11°59	21°20	7° 3	T 13	
F 14	10 9 20	4° 1'07	19°19	24°15	13°32	29°24	20°17	6°50	20°15	0°17	15°23	10°16	11°56	21°27	7° 6	F 14	
S 15	10 13 16	5° 1'14	2°M59	26° 1	14°43	29°55	20°24	6°57	20°16	0°15	15°22	10°18	11°53	21°34	7° 9	S 15	
S 16	10 17 13	6° 1'20	16°49	27°47	15°53	0°II26	20°32	7° 4	20°18	0°13	15°22	10°19	11°50	21°40	7°13	S 16	
M17	10 21 9	7° 1'24	0°148	29°35	17° 4	0°57	20°39	7°11	20°19	0°12	15°21	10°R20	11°47	21°47	7°16	M17	
T 18	10 25 6	8° 1'26	14°57	1°H24	18°14	1°28	20°47	7°18	20°21	0°10	15°20	10°20	11°44	21°54	7°19	T 18	
W19	10 29 2	9° 1'27	29°12	3°13	19°24	2° 0	20°54	7°25	20°22	0° 8	15°19	10°19	11°40	22° 1	7°23	W19	
T 20	10 32 59	10° 1'26	13°33	5° 4	20°35	2°31	21° 1	7°32	20°24	0° 7	15°19	10°16	11°37	22° 7	7°26	T 20	
F 21	10 36 55	11° 1'24	27°54	6°56	21°45	3° 3	21° 8	7°39	20°25	0° 5	15°18	10°12	11°34	22°14	7°29	F 21	
S 22	10 40 52	12° 1'20	12°11	8°49	22°54	3°34	21°15	7°46	20°27	0° 3	15°17	10° 8	11°31	22°21	7°33	S 22	
S 23	10 44 49	13° 1'14	26°20	10°44	24° 4	4° 6	21°21	7°53	20°29	0° 2	15°17	10° 4	11°28	22°27	7°36	S 23	
M24	10 48 45	14° 1'05	10°H16	12°39	25°14	4°38	21°28	8° 0	20°31	0° 0	15°16	10° 0	11°25	22°34	7°40	M24	
T 25	10 52 42	15° 0'55	23°54	14°35	26°23	5°10	21°34	8° 7	20°32	29°159	15°16	9°58	11°21	22°41	7°43	T 25	
W26	10 56 38	16° 0'43	7°V13	16°32	27°33	5°42	21°40	8°15	20°34	29°57	15°15	9°D57	11°18	22°48	7°47	W26	
T 27	11 0 35	17° 0'29	20°11	18°30	28°42	6°14	21°46	8°22	20°36	29°55	15°15	9°58	11°15	22°54	7°50	T 27	
F 28	11 4 31	18°H 0'13	2°B50	20°H29	29°V51	6°II47	21°152	8°V29	20°B38	29°154	15°14	9°159	11°12	23°II 1	7°V54	F 28	

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	decl lat
S 1	14s33	11n53	2s17	21s 8	1s37	1s21	0s38	20n15	1n45	22s28	0n33	0n 2	2s19	17n34	0s14	12n 1	0n47
S 2	14 14	14 35	3 12	20 50	1 42	0 50	0 35	20 22	1 45	22 29	0 33	0 5	2 19	17 34	0 14	12 1	0 47
M 3	13 54	16 38	3 58	20 31	1 46	0 18	0 31	20 29	1 45	22 29	0 33	0 8	2 18	17 34	0 14	12 2	0 47
T 4	13 34	17 57	4 33	20 11	1 50	0n14	0 28	20 37	1 45	22 30	0 33	0 10	2 18	17 35	0 14	12 3	0 47
W 5	13 14	18 29	4 57	19 49	1 53	0 45	0 25	20 44	1 45	22 31	0 33	0 13	2 18	17 35	0 14	12 3	0 47
T 6	12 54	18 12	5 7	19 26	1 56	1 17	0 21	20 51	1 45	22 32	0 33	0 16	2 18	17 35	0 14	12 4	0 47
F 7	12 33	17 6	5 5	19 2	1 59	1 48	0 18	20 58	1 45	22 32	0 33	0 18	2 18	17 36	0 14	12 5	0 47
S 8	12 12	15 13	4 49	18 36	2 2	2 20	0 15	21 6	1 45	22 33	0 33	0 21	2 18	17 36	0 14	12 5	0 47
S 9	11 51	12 35	4 18	18 8	2 4	2 52	0 11	21 13	1 45	22 34	0 32	0 24	2 18	17 36	0 14	12 6	0 47
M10	11 30	9 20	3 35	17 39	2 5	3 23	0 8	21 20	1 45	22 34	0 32	0 26	2 17	17 36	0 14	12 6	0 47
T 11	11 9	5 36	2 40	17 9	2 7	3 54	0 4	21 27	1 45	22 35	0 32	0 29	2 17	17 37	0 14	12 7	0 47
W12	10 47	1 31	1 35	16 37	2 7	4 26	0 0	21 33	1 45	22 36	0 32	0 32	2 17	17 37	0 14	12 8	0 47
T 13	10 26	2s41	0 24	16 4	2 8	4 57	0n 3	21 40	1 45	22 36	0 32	0 35	2 17	17 37	0 14	12 8	0 47
F 14	10 4	6 49	0n49	15 29	2 8	5 28	0 7	21 47	1 45	22 37	0 32	0 37	2 17	17 38	0 14	12 9	0 47
S 15	9 42	10 39	2 1	14 53	2 7	5 59	0 11	21 54	1 45	22 37	0 32	0 40	2 17	17 38	0 14	12 9	0 47
S 16	9 20	13 56	3 6	14 15	2 7	6 30	0 15	22 0	1 44	22 38	0 32	0 43	2 17	17 39	0 14	12 10	0 47
M17	8 57	16 27	4 1	13 36	2 5	7 0	0 19	22 7	1 44	22 38	0 32	0 46	2 17	17 39	0 14	12 11	0 47
T 18	8 35	17 59	4 42	12 56	2 3	7 31	0 22	22 13	1 44	22 39	0 32	0 49	2 17	17 39	0 14	12 11	0 47
W19	8 13	18 24	5 7	12 14	2 1	8 1	0 26	22 19	1 44	22 39	0 32	0 52	2 16	17 40	0 14	12 12	0 47
T 20	7 50	17 39	5 12	11 31	1 58	8 32	0 30	22 26	1 44	22 40	0 32	0 54	2 16	17 40	0 14	12 12	0 47
F 21	7 27	15 47	4 58	10 46	1 55	9 2	0 34	22 32	1 44	22 40	0 32	0 57	2 16	17 41	0 14	12 13	0 47
S 22	7 4	12 57	4 25	10 0	1 51	9 31	0 38	22 38	1 44	22 41	0 32	1 0	2 16	17 41	0 14	12 13	0 47
S 23	6 41	9 23	3 37	9 12	1 46	10 1	0 42	22 44	1 44	22 41	0 32	1 3	2 16	17 42	0 14	12 14	0 47
M24	6 18	5 20	2 36	8 24	1 41	10 30	0 46	22 50	1 44	22 42	0 32	1 6	2 16	17 42	0 14	12 15	0 47
T 25	5 55	1 6	1 27	7 34	1 36	11 0	0 50	22 55	1 44	22 42	0 32	1 9	2 16	17 43	0 14	12 15	0 47
W26	5 32	3n 6	0 15	6 42	1 30	11 29	0 54	23 1	1 44	22 43	0 32	1 12	2 16	17 43	0 14	12 16	0 47
T 27	5 9	7 3	0s56	5 50	1 23	11 57	0 58	23 7	1 43	22 43	0 32	1 15	2 16	17 44	0 14	12 16	0 47
F 28	4s45	10n34	2s 3	4s57	1s16	12n26	1n 3	23n12	1n43	22s43	0n32	1n18	2s16	17n44	0s14	12n17	0n47

Julian Day Number = 2246318.5, Delta T = 06m50s

Ecliptic obliquity = 23°30'35", Nutation = 0°00'05", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°54'04", Lahiri = 16°01'05" Julian Calendar 1 Feb. 1438 == Greg. Calendar 10 Feb. 1438

ASTRODIENST EPHEMERIS for the year 1438

geocentric

MARCH 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	11 8 28	18°59'54	15°12	22°28	18°0	7°19	21°57	8°36	20°40	29°R52	15°R14	10°0	11°9	23°II 8	7°Y57	S 1
S 2	11 12 24	19°59'34	27°20	24°28	2°8	7°52	22°3	8°44	20°42	29°R51	15°R13	10°2	11°5	23°14	8°1	S 2
M 3	11 16 21	20°59'11	9°II 18	26°29	3°17	8°24	22°8	8°51	20°44	29°49	15°13	10°3	11°2	23°21	8°4	M 3
T 4	11 20 18	21°58'45	21°11	28°29	4°25	8°57	22°13	8°59	20°47	29°48	15°12	10°R 4	10°59	23°28	8°8	T 4
W 5	11 24 14	22°58'18	3°II 4	0°Y29	5°34	9°30	22°18	9°6	20°49	29°46	15°12	10°3	10°56	23°35	8°11	W 5
T 6	11 28 11	23°57'48	15°1	2°29	6°42	10°2	22°23	9°13	20°51	29°45	15°12	10°2	10°53	23°41	8°15	T 6
F 7	11 32 7	24°57'15	27°7	4°29	7°49	10°35	22°28	9°21	20°53	29°43	15°11	10°0	10°50	23°48	8°19	F 7
S 8	11 36 4	25°56'41	9°II 25	6°27	8°57	11°8	22°33	9°28	20°56	29°42	15°11	9°58	10°46	23°55	8°22	S 8
S 9	11 40 0	26°56'04	22°0	8°25	10°5	11°41	22°37	9°36	20°58	29°40	15°11	9°56	10°43	24°1	8°26	S 9
M10	11 43 57	27°55'25	4°II 51	10°20	11°12	12°15	22°41	9°43	21°0	29°39	15°10	9°55	10°40	24°8	8°30	M10
T 11	11 47 53	28°54'43	18°1	12°14	12°19	12°48	22°45	9°51	21°3	29°37	15°10	9°53	10°37	24°15	8°33	T 11
W12	11 51 50	29°54'00	1°II 28	14°5	13°26	13°21	22°49	9°58	21°5	29°36	15°10	9°53	10°34	24°22	8°37	W12
T 13	11 55 47	0°Y53'14	15°11	15°53	14°32	13°54	22°52	10°6	21°8	29°34	15°10	9°D53	10°30	24°28	8°41	T 13
F 14	11 59 43	1°52'27	29°8	17°38	15°39	14°28	22°56	10°14	21°10	29°33	15°10	9°53	10°27	24°35	8°44	F 14
S 15	12 3 40	2°51'37	13°II 15	19°19	16°45	15°1	22°59	10°21	21°13	29°32	15°9	9°54	10°24	24°42	8°48	S 15
S 16	12 7 36	3°50'46	27°28	20°56	17°51	15°35	23°2	10°29	21°15	29°30	15°9	9°54	10°21	24°48	8°52	S 16
M17	12 11 33	4°49'53	11°II 44	22°28	18°57	16°8	23°5	10°36	21°18	29°29	15°9	9°55	10°18	24°55	8°55	M17
T 18	12 15 29	5°48'58	26°1	23°56	20°2	16°42	23°8	10°44	21°21	29°28	15°9	9°55	10°15	25°2	8°59	T 18
W19	12 19 26	6°48'02	10°II 14	25°19	21°8	17°16	23°11	10°52	21°23	29°27	15°9	9°R55	10°11	25°9	9°3	W19
T 20	12 23 22	7°47'04	24°21	26°37	22°13	17°50	23°13	10°59	21°26	29°25	15°D 9	9°55	10°8	25°15	9°6	T 20
F 21	12 27 19	8°46'03	8°II 22	27°49	23°18	18°24	23°15	11°7	21°29	29°24	15°9	9°55	10°5	25°22	9°10	F 21
S 22	12 31 15	9°45'02	22°13	28°55	24°22	18°57	23°17	11°14	21°32	29°23	15°9	9°D55	10°2	25°29	9°14	S 22
S 23	12 35 12	10°43'58	5°II 53	29°55	25°26	19°31	23°19	11°22	21°34	29°22	15°9	9°55	9°59	25°35	9°17	S 23
M24	12 39 9	11°42'52	19°21	0°II 50	26°31	20°5	23°21	11°30	21°37	29°21	15°9	9°55	9°56	25°42	9°21	M24
T 25	12 43 5	12°41'45	2°Y34	1°38	27°34	20°40	23°22	11°37	21°40	29°19	15°9	9°55	9°52	25°49	9°25	T 25
W26	12 47 2	13°40'35	15°34	2°19	28°38	21°14	23°24	11°45	21°43	29°18	15°9	9°R55	9°49	25°56	9°29	W26
T 27	12 50 58	14°39'23	28°19	2°55	29°41	21°48	23°25	11°53	21°46	29°17	15°10	9°55	9°46	26°2	9°32	T 27
F 28	12 54 55	15°38'10	10°II 49	3°24	0°II 44	22°22	23°26	12°0	21°49	29°16	15°10	9°54	9°43	26°9	9°36	F 28
S 29	12 58 51	16°36'54	23°6	3°46	1°46	22°56	23°26	12°8	21°52	29°15	15°10	9°54	9°40	26°16	9°40	S 29
S 30	13 2 48	17°35'36	5°II 13	4°3	2°49	23°31	23°27	12°15	21°55	29°14	15°10	9°53	9°36	26°23	9°43	S 30
M31	13 6 44	18°Y34'16	17°II 11	4°II 12	3°II 51	24°II 5	23°Y27	12°Y23	21°II 58	29°II 13	15°II 10	9°II 52	9°II 33	26°II 29	9°Y47	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
S 1	4s22	13n32	3s 2	4s 2	1s 8	12n54	1n 7	23n18	1n43	22s44	0n32	1n21	2s16	17n45	0s14	12n17	0n47	23n48	1n10	3s58	4s25	18n27	4n52	1n52	
S 2	3 58	15 51	3 52	3 7	1 0	13 21	1 11	23 23	1 43	22 44	0 32	1 24	2 16	17 46	0 14	12 18	0 47	23 48	1 10	3 59	4 24	18 27	4 54	1 51	
M 3	3 35	17 26	4 32	2 11	0 51	13 49	1 15	23 28	1 43	22 44	0 32	1 27	2 16	17 46	0 14	12 19	0 47	23 48	1 10	4 0	4 23	18 27	4 55	1 51	
T 4	3 11	18 15	4 59	1 14	0 42	14 16	1 19	23 33	1 43	22 45	0 32	1 30	2 15	17 47	0 14	12 19	0 47	23 48	1 11	4 0	4 22	18 27	4 56	1 51	
W 5	2 48	18 15	5 13	0 17	0 32	14 43	1 23	23 38	1 43	22 45	0 32	1 33	2 15	17 47	0 14	12 20	0 47	23 49	1 11	4 0	4 20	18 27	4 58	1 51	
T 6	2 24	17 27	5 15	0n40	0 21	15 10	1 27	23 43	1 43	22 45	0 32	1 36	2 15	17 48	0 14	12 20	0 47	23 49	1 11	3 59	4 19	18 27	4 59	1 51	
F 7	2 1	15 52	5 2	1 37	0 11	15 36	1 31	23 47	1 42	22 45	0 32	1 39	2 15	17 48	0 14	12 21	0 47	23 49	1 11	3 58	4 18	18 27	5 0	1 51	
S 8	1 37	13 31	4 35	2 35	0n 1	16 2	1 35	23 52	1 42	22 46	0 32	1 42	2 15	17 49	0 14	12 21	0 47	23 49	1 11	3 58	4 17	18 27	5 2	1 51	
S 9	1 13	10 31	3 55	3 32	0 12	16 27	1 39	23 56	1 42	22 46	0 32	1 45	2 15	17 50	0 14	12 22	0 47	23 49	1 11	3 57	4 15	18 27	5 3	1 51	
M10	0 50	6 56	3 2	4 28	0 24	16 52	1 44	24 1	1 42	22 46	0 32	1 48	2 15	17 50	0 14	12 22	0 47	23 49	1 11	3 56	4 14	18 27	5 4	1 51	
T 11	0 26	2 56	1 58	5 24	0 36	17 17	1 48	24 5	1 42	22 46	0 32	1 51	2 15	17 51	0 14	12 23	0 47	23 49	1 11	3 56	4 13	18 27	5 6	1 51	
W12	0 2	1s18	0 46	6 18	0 48	17 41	1 52	24 9	1 42	22 47	0 32	1 53	2 15	17 52	0 14	12 23	0 47	23 49	1 11	3 55	4 12	18 27	5 7	1 51	
T 13	0n21	5 33	0n29	7 11	1 0	18 5	1 56	24 13	1 41	22 47	0 32	1 56	2 15	17 52	0 14	12 24	0 47	23 49	1 11	3 55	4 10	18 27	5 8	1 50	
F 14	0 45	9 34	1 45	8 3	1 12	18 29	2 0	24 17	1 41	22 47	0 32	1 59	2 15	17 53	0 14	12 24	0 47	23 49	1 11	3 56	4 9	18 27	5 10	1 50	
S 15	1 8	13 5	2 55	8 52	1 24	18 52	2 4	24 20	1 41	22 47	0 32	2 2	2 15	17 54	0 14	12 25	0 47	23 49	1 11	3 56	4 8	18 27	5 11	1 50	
S 16	1 32	15 51	3 54	9 40	1 35	19 15	2 8	24 24	1 41	22 47	0 32	2 5	2 15	17 54	0 14	12 25	0 47	23 49	1 11	3 56	4 7	18 27	5 13	1 50	
M17	1 56	17 38	4 40	10 25	1 47	19 37	2 11	24 27	1 41	22 48	0 32	2 8	2 15	17 55	0 14	12 26	0 47	23 49	1 11	3 56	4 5	18 27	5 14	1 50	
T 18	2 19	18 19	5 8	11 8	1 58	19 58	2 15	24 31	1 41	22 48	0 32	2 11	2 15	17 56	0 14	12 26	0 47	23 49	1 11	3 56	4 4	18 27	5 15	1 50	
W19	2 42	17 51	5 17	11 48	2 8	20 20	2 19	24 34	1 40	22 48	0 32	2 14	2 15	17 57	0 14	12 26	0 47	23 49	1 11	3 56	4 3	18 27	5 17	1 50	
T 20	3 6	16 16	5 7	12 26	2 18	20 41	2 23	24 37	1 40	22 48	0 32	2 17	2 15	17 57	0 14	12 27	0 47	23 49	1 11	3 56	4 2	18 27	5 18	1 50	
F 21	3 29	13 44	4 39	13 0	2 27	21 1	2 27	24 40	1 40	22 48	0 32	2 20	2 15	17 58	0 14	12 27	0 47	23 49	1 11	3 56	4 0	18 27	5 20	1 50	
S 22	3 52	10 27	3 55	13 32	2 35	21 21	2 30	24 42	1 40	22 48	0 32	2 23	2 15	17 59	0 14	12 28	0 47	23 49	1 11	3 56	3 59	18 27	5 21	1 50	
S 23	4 16	6 38	2 58	14 1	2 43	21 40	2 34	24 45	1 40	22 48	0 32	2 26	2 15	18 0	0 14	12 28	0 47	23 50	1 11	3 56	3 58	18 27	5 22	1 50	
M24	4 39	2 31	1 52	14 26	2 49	21 59	2 38	24 47	1 39	22 48	0 32	2 29	2 15	18 0	0 14	12 29	0 47	23 50	1 11	3 56	3 57	18 27	5 24	1 50	
T 25	5 2	1n39	0 41	14 48	2 55	22 17	2 41	24 50	1 39	22 49	0 32	2 32	2 15	18 1	0 13	12 29	0 47	23 50	1 11	3 56	3 55	18 27	5 25	1 50	
W26	5 25	5 40	0s31	15 7	2 59	22 35	2 45	24 52	1 39	22 49	0 32	2 35	2 15	18 2	0 13	12 29	0 47	23 50	1 11	3 56	3 54	18 27	5 27	1 50	
T 27	5 48	9 21	1 40	15 22	3 3	22 53	2 48	24 54	1 39	22 49	0 32	2 38	2 15	18 3	0 13	12 30	0 47	23 50	1 11	3 56	3 53	18 27	5 28	1 49	
F 28	6 10	12 32	2 43	15 35	3 5	23 9	2 51	24 56	1 39	22 49	0 32	2 41	2 15	18 3	0 13	12 30	0 47	23 50	1 11	3 56	3 52	18 27	5 29	1 49	
S 29	6 33	15 6	3 37	15 43	3 6	23 26	2 55	24 57	1 38	22 49	0 32	2 44	2 15	18 4	0 13	12 30	0 47	23 50	1 11	3 56	3 50	18 27	5 31	1 49	
S 30	6 56	16 57	4 21	15 49	3 5	23 41	2 58	24 59	1 38	22 49	0 32	2 47	2 15	18 5	0 13	12 31	0 47	23 50	1 11	3 55	3 49	18 27	5 32	1 49	
M31	7n18	18n 2	4s52	15n50	3n 4	23n56	3n 1	25n 0	1n38	22s49	0n32	2n50	2s15	18n 6	0s13	12n31	0n47	23n50	1n11	3s55	3s48	18n27	5n34	1n49	

ASTRODIENST EPHEMERIS for the year 1438

geocentric

APRIL 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	13 10 41	19°32'54	29°11'4	4°R16	4°II52	24°II40	23°R27	12°Y31	22°B 1	29°R12	15°E11	9°R51	9°E30	26°II36	9°Y51	T 1
W 2	13 14 38	20°31'30	10°E57	4°B14	5°53	25°14	23°R27	12°38	22°4	29°R11	15°11	9°E50	9°27	26°43	9°54	W 2
T 3	13 18 34	21°30'03	22°54	4°6	6°54	25°49	23°27	12°46	22°7	29°10	15°11	9°D50	9°24	26°49	9°58	T 3
F 4	13 22 31	22°28'34	4°E59	3°52	7°55	26°23	23°27	12°53	22°10	29°9	15°12	9°50	9°21	26°56	10°2	F 4
S 5	13 26 27	23°27'03	17°16	3°33	8°55	26°58	23°26	13°1	22°13	29°9	15°12	9°51	9°17	27°3	10°5	S 5
S 6	13 30 24	24°25'30	29°51	3°10	9°55	27°33	23°25	13°8	22°17	29°8	15°12	9°52	9°14	27°10	10°9	S 6
M 7	13 34 20	25°23'54	12°E47	2°42	10°54	28°7	23°24	13°16	22°20	29°7	15°13	9°53	9°11	27°16	10°12	M 7
T 8	13 38 17	26°22'17	26°5	2°11	11°53	28°42	23°23	13°23	22°23	29°6	15°13	9°54	9°8	27°23	10°16	T 8
W 9	13 42 13	27°20'37	9°E47	1°37	12°51	29°17	23°22	13°31	22°26	29°6	15°14	9°R55	9°5	27°30	10°20	W 9
T 10	13 46 10	28°18'56	23°50	1°0	13°49	29°52	23°20	13°38	22°30	29°5	15°14	9°54	9°2	27°36	10°23	T 10
F 11	13 50 7	29°17'13	8°E12	0°22	14°47	0°E27	23°19	13°46	22°33	29°4	15°15	9°53	8°58	27°43	10°27	F 11
S 12	13 54 3	0°B15'28	22°47	29°Y42	15°44	1°2	23°17	13°53	22°36	29°4	15°15	9°51	8°55	27°50	10°30	S 12
S 13	13 58 0	1°13'41	7°E28	29°3	16°40	1°36	23°15	14°1	22°39	29°3	15°16	9°48	8°52	27°57	10°34	S 13
M14	14 1 56	2°11'53	22°10	28°24	17°36	2°11	23°12	14°8	22°43	29°2	15°17	9°45	8°49	28°3	10°37	M14
T 15	14 5 53	3°10'03	6°E44	27°46	18°32	2°46	23°10	14°15	22°46	29°2	15°17	9°43	8°46	28°10	10°41	T 15
W16	14 9 49	4°8'12	21°7	27°10	19°26	3°22	23°7	14°23	22°49	29°1	15°18	9°41	8°42	28°17	10°44	W16
T 17	14 13 46	5°6'19	5°E14	26°36	20°21	3°57	23°5	14°30	22°53	29°1	15°18	9°D41	8°39	28°23	10°48	T 17
F 18	14 17 42	6°4'25	19°6	26°5	21°15	4°32	23°2	14°37	22°56	29°0	15°19	9°41	8°36	28°30	10°51	F 18
S 19	14 21 39	7°2'30	2°E40	25°37	22°8	5°7	22°59	14°45	23°0	29°0	15°20	9°42	8°33	28°37	10°55	S 19
S 20	14 25 36	8°0'33	15°59	25°14	23°0	5°42	22°55	14°52	23°3	29°0	15°21	9°44	8°30	28°44	10°58	S 20
M21	14 29 32	8°58'34	29°3	24°54	23°52	6°17	22°52	14°59	23°6	28°59	15°21	9°45	8°27	28°50	11°1	M21
T 22	14 33 29	9°56'35	11°Y54	24°39	24°44	6°53	22°48	15°6	23°10	28°59	15°22	9°R46	8°23	28°57	11°5	T 22
W23	14 37 25	10°54'33	24°33	24°28	25°34	7°28	22°44	15°13	23°13	28°59	15°23	9°45	8°20	29°4	11°8	W23
T 24	14 41 22	11°52'30	7°B 1	24°21	26°24	8°3	22°40	15°21	23°17	28°58	15°24	9°42	8°17	29°11	11°11	T 24
F 25	14 45 18	12°50'26	19°18	24°D19	27°13	8°39	22°36	15°28	23°20	28°58	15°25	9°38	8°14	29°17	11°15	F 25
S 26	14 49 15	13°48'20	1°II27	24°22	28°1	9°14	22°32	15°35	23°24	28°58	15°25	9°33	8°11	29°24	11°18	S 26
S 27	14 53 11	14°46'13	13°29	24°29	28°49	9°50	22°27	15°42	23°27	28°58	15°26	9°26	8°7	29°31	11°21	S 27
M28	14 57 8	15°44'04	25°24	24°42	29°36	10°25	22°22	15°49	23°31	28°58	15°27	9°20	8°4	29°37	11°24	M28
T 29	15 1 4	16°41'53	7°E16	24°58	0°E21	11°1	22°18	15°56	23°34	28°58	15°28	9°14	8°1	29°44	11°27	T 29
W30	15 5 1	17°B39'41	19°E 8	25°Y19	1°E 6	11°E36	22°R13	16°Y 3	23°B38	28°E57	15°E29	9°E 9	7°E58	29°II51	11°Y31	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	decl	lat	decl	lat
T 1	7n40	18n19	5s11	15n49	3n 1	24n11	3n 4	25n 2	1n38	22s49	0n32	2n53	2s15	18n 7	0s13	12n31	0n47	23n50	1n12	3s55	3s47	18n27	5n35	1n49			
W 2	8 2	17 48	5 16	15 44	2 56	24 25	3 7	25 3	1 37	22 49	0 32	2 56	2 15	18 7	0 13	12 32	0 47	23 50	1 12	3 54	3 45	18 27	5 36	1 49			
T 3	8 24	16 29	5 8	15 36	2 51	24 39	3 10	25 4	1 37	22 49	0 32	2 59	2 15	18 8	0 13	12 32	0 47	23 50	1 12	3 54	3 44	18 27	5 38	1 49			
F 4	8 46	14 26	4 47	15 24	2 43	24 52	3 13	25 5	1 37	22 49	0 32	3 2	2 15	18 9	0 13	12 32	0 47	23 50	1 12	3 54	3 43	18 27	5 39	1 49			
S 5	9 8	11 42	4 12	15 10	2 35	25 4	3 15	25 5	1 37	22 49	0 32	3 5	2 15	18 10	0 13	12 33	0 47	23 50	1 12	3 55	3 42	18 27	5 41	1 49			
S 6	9 30	8 22	3 24	14 52	2 25	25 16	3 18	25 6	1 37	22 49	0 32	3 8	2 15	18 11	0 13	12 33	0 47	23 50	1 12	3 55	3 40	18 27	5 42	1 49			
M 7	9 51	4 33	2 24	14 32	2 13	25 27	3 20	25 6	1 36	22 49	0 32	3 10	2 15	18 12	0 13	12 33	0 47	23 50	1 12	3 56	3 39	18 27	5 43	1 49			
T 8	10 12	0 24	1 16	14 10	2 1	25 38	3 23	25 6	1 36	22 49	0 32	3 13	2 15	18 12	0 13	12 33	0 47	23 50	1 12	3 56	3 38	18 27	5 45	1 49			
W 9	10 33	3s54	0 1	13 45	1 47	25 48	3 25	25 6	1 36	22 49	0 32	3 16	2 15	18 13	0 13	12 34	0 47	23 50	1 12	3 56	3 37	18 27	5 46	1 49			
T 10	10 54	8 6	1n16	13 18	1 33	25 57	3 27	25 6	1 36	22 49	0 32	3 19	2 16	18 14	0 13	12 34	0 47	23 50	1 12	3 56	3 35	18 27	5 47	1 49			
F 11	11 15	11 55	2 30	12 50	1 17	26 6	3 29	25 6	1 35	22 49	0 32	3 22	2 16	18 15	0 13	12 34	0 47	23 50	1 12	3 56	3 34	18 27	5 49	1 49			
S 12	11 36	15 4	3 35	12 21	1 1	26 15	3 31	25 5	1 35	22 49	0 32	3 25	2 16	18 16	0 13	12 34	0 47	23 49	1 12	3 55	3 33	18 27	5 50	1 49			
S 13	11 56	17 15	4 26	11 52	0 45	26 23	3 33	25 5	1 35	22 49	0 32	3 27	2 16	18 17	0 13	12 35	0 47	23 49	1 12	3 54	3 31	18 26	5 51	1 49			
M14	12 16	18 17	5 0	11 22	0 28	26 30	3 35	25 4	1 35	22 48	0 32	3 30	2 16	18 17	0 13	12 35	0 47	23 49	1 12	3 52	3 30	18 26	5 53	1 49			
T 15	12 36	18 7	5 14	10 52	0 11	26 36	3 37	25 3	1 34	22 48	0 32	3 33	2 16	18 18	0 13	12 35	0 47	23 49	1 12	3 51	3 29	18 26	5 54	1 49			
W16	12 56	16 46	5 8	10 23	0s 7	26 43	3 38	25 2	1 34	22 48	0 32	3 36	2 16	18 19	0 13	12 35	0 47	23 49	1 12	3 51	3 28	18 26	5 56	1 49			
T 17	13 16	14 25	4 44	9 55	0 24	26 48	3 39	25 1	1 34	22 48	0 32	3 39	2 16	18 20	0 13	12 35	0 47	23 49	1 12	3 51	3 26	18 26	5 57	1 49			
F 18	13 35	11 17	4 3	9 28	0 40	26 53	3 40	24 59	1 34	22 48	0 32	3 41	2 16	18 21	0 13	12 35	0 47	23 49	1 12	3 51	3 25	18 26	5 58	1 48			
S 19	13 54	7 36	3 10	9 3	0 57	26 57	3 41	24 58	1 33	22 48	0 31	3 44	2 16	18 22	0 13	12 35	0 47	23 49	1 12	3 51	3 24	18 26	5 59	1 48			
S 20	14 13	3 36	2 7	8 40	1 12	27 1	3 42	24 56	1 33	22 48	0 31	3 47	2 16	18 23	0 13	12 36	0 47	23 49	1 12	3 52	3 23	18 26	6 1	1 48			
M21	14 32	0n31	0 58	8 19	1 27	27 5	3 43	24 54	1 33	22 48	0 31	3 49	2 16	18 24	0 13	12 36	0 47	23 49	1 12	3 52	3 21	18 26	6 2	1 48			
T 22	14 50	4 32	0s12	8 0	1 42	27 7	3 43	24 52	1 32	22 48	0 31	3 52	2 16	18 24	0 13	12 36	0 47	23 49	1 12	3 53	3 20	18 26	6 3	1 48			
W23	15 9	8 18	1 20	7 43	1 55	27 10	3 44	24 50	1 32	22 47	0 31	3 55	2 17	18 25	0 13	12 36	0 47	23 49	1 12	3 52	3 19	18 26	6 5	1 48			
T 24	15 27	11 38	2 23	7 29	2 8	27 11	3 44	24 48	1 32	22 47	0 31	3 57	2 17	18 26	0 13	12 36	0 47	23 49	1 12	3 51	3 18	18 26	6 6	1 48			
F 25	15 44	14 25	3 19	7 17	2 20	27 13	3 44	24 45	1 32	22 47	0 31	4 0	2 17	18 27	0 13	12 36	0 47	23 49	1 12	3 50	3 16	18 25	6 7	1 48			
S 26	16 2	16 31	4 5	7 8	2 31	27 13	3 44	24 42	1 31	22 47	0 31	4 3	2 17	18 28	0 13	12 36	0 47	23 49	1 12	3 47	3 15	18 25	6 8	1 48			
S 27	16 19	17 52	4 39	7 2	2 40	27 14	3 43	24 40	1 31	22 47	0 31	4 5	2 17	18 29	0 13	12 36	0 47	23 49	1 12	3 45	3 14	18 25	6 10	1 48			
M28	16 36	18 25	5 1	6 58	2 49	27 13	3 43	24 37	1 31	22 46	0 31	4 8	2 17	18 30	0 13	12 36	0 47	23 49	1 12	3 42	3 13	18 25	6 11	1 48			
T 29	16 53	18 9	5 10	6 57	2 57	27 13	3 42	24 33	1 31	22 46	0 31	4 10	2 17	18 31	0 13	12 36	0 47	23 49	1 13	3 40	3 11	18 25	6 12	1 48			
W30	17n 9	17n 6	5s 6	6n58	3s 4	27n11	3n41	24n30	1n30	22s46	0n31	4n13	2s17	18n31	0s13	12n36	0n47	23n49	1n13	3s38	3s10	18n25	6n13	1n48			

ASTRODIENST EPHEMERIS for the year 1438

geocentric

MAY 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	15 8 58	18°37'27"	18° 4	25°44'	12°50'	12°512	22°R 8	16°Y 9	23°B41	28°R57	15°S30	9°R 6	7°A55	29°II58	11°Y34	T 1
F 2	15 12 54	19°35'11"	13° 6	26°14'	2°33'	12°47	22°A 2	16°16	23°45	28°D57	15°31	9°A 4	7°52	0°S 4	11°37	F 2
S 3	15 16 51	20°32'54"	25°21	26°47'	3°15'	13°23	21°57	16°23	23°48	28°L57	15°32	9°D 4	7°48	0°11	11°40	S 3
S 4	15 20 47	21°30'35"	7°53	27°25'	3°56'	13°59	21°51	16°30	23°52	28°58	15°33	9° 5	7°45	0°18	11°43	S 4
M 5	15 24 44	22°28'14"	20°46	28° 6	4°36'	14°34	21°46	16°36	23°55	28°58	15°34	9° 6	7°42	0°24	11°46	M 5
T 6	15 28 40	23°25'52"	4°4	28°51'	5°15'	15°10	21°40	16°43	23°59	28°58	15°35	9°R 7	7°39	0°31	11°49	T 6
W 7	15 32 37	24°23'28"	17°50	29°40'	5°52'	15°46	21°34	16°50	24° 2	28°58	15°36	9° 7	7°36	0°38	11°52	W 7
T 8	15 36 33	25°21'03"	2°11	0°32	6°29'	16°21	21°28	16°56	24° 6	28°58	15°37	9° 5	7°33	0°45	11°55	T 8
F 9	15 40 30	26°18'36"	16°39	1°28	7° 4	16°57	21°22	17° 3	24° 9	28°58	15°38	9° 1	7°29	0°51	11°58	F 9
S 10	15 44 27	27°16'09"	1°34	2°27	7°37	17°33	21°16	17° 9	24°13	28°59	15°40	8°55	7°26	0°58	12° 1	S 10
S 11	15 48 23	28°13'40"	16°39	3°29	8°10	18° 9	21° 9	17°16	24°16	28°59	15°41	8°48	7°23	1° 5	12° 3	S 11
M12	15 52 20	29°11'10"	1°34	4°34	8°41	18°45	21° 3	17°22	24°20	28°59	15°42	8°41	7°20	1°12	12° 6	M12
T 13	15 56 16	0°II 8'40	16°40	5°42	9°10	19°21	20°56	17°28	24°23	29° 0	15°43	8°34	7°17	1°18	12° 9	T 13
W14	16 0 13	1° 6'08	1°19	6°53	9°38	19°57	20°49	17°35	24°27	29° 0	15°44	8°29	7°13	1°25	12°12	W14
T 15	16 4 9	2° 3'36	15°36	8° 8	10° 4	20°33	20°43	17°41	24°30	29° 0	15°45	8°26	7°10	1°32	12°14	T 15
F 16	16 8 6	3° 1'03	29°29	9°25	10°29	21° 9	20°36	17°47	24°34	29° 1	15°47	8°D24	7° 7	1°38	12°17	F 16
S 17	16 12 2	3°58'29"	12°59	10°45	10°52	21°45	20°29	17°53	24°37	29° 1	15°48	8°25	7° 4	1°45	12°19	S 17
S 18	16 15 59	4°55'54"	26° 7	12° 7	11°13	22°21	20°22	17°59	24°41	29° 2	15°49	8°26	7° 1	1°52	12°22	S 18
M19	16 19 56	5°53'19"	8°Y57	13°33	11°33	22°57	20°14	18° 5	24°44	29° 2	15°50	8°R26	6°58	1°59	12°25	M19
T 20	16 23 52	6°50'43"	21°32	15° 1	11°50	23°33	20° 7	18°11	24°47	29° 3	15°52	8°25	6°54	2° 5	12°27	T 20
W21	16 27 49	7°48'06"	3°55	16°32	12° 6	24° 9	20° 0	18°17	24°51	29° 4	15°53	8°22	6°51	2°12	12°29	W21
T 22	16 31 45	8°45'29"	16° 8	18° 6	12°20	24°45	19°53	18°23	24°54	29° 4	15°54	8°17	6°48	2°19	12°32	T 22
F 23	16 35 42	9°42'51"	28°14	19°42	12°31	25°21	19°45	18°28	24°58	29° 5	15°56	8° 9	6°45	2°25	12°34	F 23
S 24	16 39 38	10°40'12"	10°II14	21°22	12°41	25°57	19°38	18°34	25° 1	29° 6	15°57	7°58	6°42	2°32	12°37	S 24
S 25	16 43 35	11°37'33"	22°10	23° 3	12°48	26°34	19°30	18°40	25° 5	29° 6	15°58	7°47	6°39	2°39	12°39	S 25
M26	16 47 31	12°34'53"	4°S 3	24°48	12°53	27°10	19°23	18°45	25° 8	29° 7	16° 0	7°35	6°35	2°46	12°41	M26
T 27	16 51 28	13°32'12"	15°54	26°35	12°56	27°46	19°15	18°51	25°11	29° 8	16° 1	7°23	6°32	2°52	12°43	T 27
W28	16 55 25	14°29'30"	27°46	28°24	12°R57	28°23	19° 8	18°56	25°15	29° 9	16° 3	7°14	6°29	2°59	12°45	W28
T 29	16 59 21	15°26'47"	9°L42	0°II16	12°55	28°59	19° 0	19° 2	25°18	29°10	16° 4	7° 6	6°26	3° 6	12°48	T 29
F 30	17 3 18	16°24'04"	21°44	2°11	12°51	29°35	18°52	19° 7	25°21	29°11	16° 5	7° 1	6°23	3°13	12°50	F 30
S 31	17 7 14	17°II21'19"	3°58	4°II 8	12°S45	0°L12	18°A45	19°Y12	25°B25	29°L11	16°S 7	6°A58	6°A19	3°S19	12°Y52	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
T 1	17n25	15n18	4s48	7n 1	3s10	27n10	3n40	24n27	1n30	22s46	0n31	4n15	2s17	18n32	0s13	12n36	0n47	23n48	1n13	3s37	3s 9	18n25	6n15	1n48			
F 2	17 41	12 49	4 17	7 7	3 15	27 7	3 38	24 23	1 30	22 46	0 31	4 18	2 18	18 33	0 13	12 36	0 47	23 48	1 13	3 36	3 8	18 25	6 16	1 48			
S 3	17 56	9 44	3 35	7 15	3 19	27 5	3 37	24 19	1 29	22 45	0 31	4 20	2 18	18 34	0 13	12 36	0 47	23 48	1 13	3 36	3 6	18 25	6 17	1 48			
S 4	18 12	6 9	2 41	7 26	3 23	27 2	3 35	24 15	1 29	22 45	0 31	4 23	2 18	18 35	0 13	12 36	0 47	23 48	1 13	3 37	3 5	18 24	6 18	1 48			
M 5	18 27	2 10	1 38	7 38	3 25	26 58	3 33	24 11	1 29	22 45	0 31	4 25	2 18	18 36	0 13	12 36	0 47	23 48	1 13	3 37	3 4	18 24	6 19	1 48			
T 6	18 41	2s 2	0 27	7 53	3 27	26 54	3 30	24 7	1 29	22 44	0 30	4 28	2 18	18 37	0 13	12 36	0 47	23 48	1 13	3 37	3 3	18 24	6 21	1 48			
W 7	18 55	6 17	0n47	8 9	3 27	26 50	3 28	24 2	1 28	22 44	0 30	4 30	2 18	18 38	0 13	12 36	0 47	23 48	1 13	3 37	3 1	18 24	6 22	1 48			
T 8	19 9	10 20	2 1	8 27	3 27	26 45	3 25	23 58	1 28	22 44	0 30	4 33	2 18	18 38	0 13	12 36	0 47	23 48	1 13	3 37	3 0	18 24	6 23	1 48			
F 9	19 23	13 51	3 8	8 47	3 27	26 40	3 21	23 53	1 28	22 43	0 30	4 35	2 19	18 39	0 13	12 36	0 47	23 48	1 13	3 35	2 59	18 24	6 24	1 48			
S 10	19 36	16 33	4 5	9 9	3 25	26 35	3 18	23 48	1 27	22 43	0 30	4 37	2 19	18 40	0 13	12 36	0 47	23 48	1 13	3 33	2 58	18 24	6 25	1 48			
S 11	19 49	18 7	4 44	9 32	3 23	26 29	3 14	23 43	1 27	22 43	0 30	4 40	2 19	18 41	0 13	12 36	0 47	23 48	1 13	3 30	2 56	18 23	6 26	1 48			
M12	20 2	18 25	5 5	9 56	3 20	26 23	3 10	23 38	1 27	22 42	0 30	4 42	2 19	18 42	0 13	12 35	0 47	23 48	1 13	3 27	2 55	18 23	6 27	1 48			
T 13	20 14	17 27	5 4	10 22	3 16	26 17	3 6	23 32	1 26	22 42	0 30	4 44	2 19	18 43	0 13	12 35	0 47	23 47	1 13	3 24	2 54	18 23	6 28	1 48			
W14	20 26	15 19	4 43	10 50	3 12	26 10	3 1	23 27	1 26	22 42	0 30	4 46	2 19	18 44	0 13	12 35	0 47	23 47	1 13	3 22	2 53	18 23	6 29	1 48			
T 15	20 38	12 18	4 5	11 18	3 7	26 3	2 56	23 21	1 26	22 41	0 30	4 49	2 20	18 45	0 13	12 35	0 47	23 47	1 13	3 21	2 51	18 23	6 31	1 48			
F 16	20 49	8 40	3 13	11 48	3 2	25 56	2 51	23 15	1 26	22 41	0 30	4 51	2 20	18 45	0 13	12 35	0 47	23 47	1 13	3 21	2 50	18 23	6 32	1 48			
S 17	21 0	4 40	2 12	12 19	2 56	25 48	2 45	23 9	1 25	22 41	0 29	4 53	2 20	18 46	0 13	12 35	0 47	23 47	1 13	3 21	2 49	18 22	6 33	1 48			
S 18	21 11	0 33	1 6	12 50	2 49	25 40	2 39	23 3	1 25	22 40	0 29	4 55	2 20	18 47	0 13	12 34	0 47	23 47	1 13	3 21	2 47	18 22	6 34	1 48			
M19	21 21	3n31	0s 3	13 23	2 42	25 32	2 32	22 57	1 25	22 40	0 29	4 57	2 20	18 48	0 13	12 34	0 47	23 47	1 13	3 21	2 46	18 22	6 35	1 48			
T 20	21 31	7 21	1 10	13 56	2 34	25 24	2 25	22 50	1 24	22 39	0 29	4 59	2 20	18 49	0 13	12 34	0 47	23 47	1 13	3 21	2 45	18 22	6 36	1 48			
W21	21 40	10 47	2 12	14 30	2 26	25 15	2 18	22 43	1 24	22 39	0 29	5 1	2 21	18 50	0 13	12 34	0 47	23 47	1 13	3 20	2 44	18 22	6 37	1 48			
T 22	21 50	13 44	3 7	15 5	2 17	25 6	2 11	22 37	1 24	22 38	0 29	5 3	2 21	18 50	0 13	12 34	0 47	23 46	1 13	3 18	2 42	18 22	6 37	1 48			
F 23	21 58	16 2	3 53	15 40	2 8	24 57	2 3	22 30	1 23	22 38	0 29	5 5	2 21	18 51	0 13	12 33	0 47	23 46	1 14	3 14	2 41	18 21	6 38	1 48			
S 24	22 7	17 37	4 28	16 15	1 59	24 48	1 54	22 23	1 23	22 38	0 29	5 7	2 21	18 52	0 13	12 33	0 47	23 46	1 14	3 10	2 40	18 21	6 39	1 48			
S 25	22 15	18 26	4 51	16 50	1 49	24 38	1 45	22 15	1 23	22 37	0 29	5 9	2 21	18 53	0 13	12 33	0 47	23 46	1 14	3 6	2 39	18 21	6 40	1 48			
M26	22 22	18 25	5 2	17 26	1 38	24 29	1 36	22 8	1 22	22 37	0 28	5 11	2 22	18 54	0 13	12 32	0 47	23 46	1 14	3 1	2 37	18 21	6 41	1 48			
T 27	22 29	17 36	4 59	18 1	1 28	24 19	1 27	22 1	1 22	22 36	0 28	5 13	2 22	18 55	0 13	12 32	0 47	23 46	1 14	2 56	2 36	18 21	6 42	1 48			
W28	22 36	16 2	4 44	18 36	1 17	24 9	1 17	21 53	1 22	22 36	0 28	5 15	2 22	18 55	0 13	12 32	0 46	23 46	1 14	2 53	2 35	18 20	6 43	1 48			
T 29	22 43	13 46	4 15	19 11	1 6	23 59	1 6	21 45	1 21	22 35	0 28	5 17	2 22	18 56	0 13	12 32	0 46	23 46	1 14	2 50	2 34	18 20	6 44	1 48			
F 30	22 49	10 54	3 36	19 45	0 55	23 48	0 55	21 37	1 21	22 35	0 28	5 19	2 22	18 57	0 13	12 31	0 46	23 46	1 14	2 48	2 32	18 20	6 45	1 48			
S 31	22n54	7n31	2s46	20n19	0s44	23n38	0n44	21n29	1n21	22s34	0n28	5n20	2s23	18n58	0s13	12n31	0n46	23n45	1n14	2s46	2s31	18n20	6n45	1n48			

Julian Day Number = 2246407.5, Delta T = 06m50s

Ecliptic obliquity = 23°30'35", Nutation = 0°00'01", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°54'16", Lahiri = 16°01'17" Julian Calendar 1 May 1438 == Greg. Calendar 10 May 1438

ASTRODIENST EPHEMERIS for the year 1438

geocentric

JUNE 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 11 11	18 ^{II} 18'34	16 ^{III} 26	6 ^{II} 7	12°R36	0 ^{II} 48	18°R37	19 ^{III} 17	25 ^{III} 28	29 ^{III} 12	16 ^{III} 8	6°D57	6 ^{III} 16	3 ^{III} 26	12 ^{III} 54	S 1
M 2	17 15 7	19°15'48	29°15	8° 8	12 ^{III} 25	1°24	18 ^{III} 29	19°22	25°31	29°13	16°10	6 ^{III} 58	6°13	3°33	12°55	M 2
T 3	17 19 4	20°13'01	12 ^{III} 28	10°12	12°11	2° 1	18°22	19°27	25°35	29°14	16°11	6°R58	6°10	3°39	12°57	T 3
W 4	17 23 0	21°10'14	26° 8	12°17	11°55	2°37	18°14	19°32	25°38	29°15	16°13	6°56	6° 7	3°46	12°59	W 4
T 5	17 26 57	22° 7'26	10 ^{III} 18	14°24	11°36	3°14	18° 6	19°37	25°41	29°16	16°14	6°53	6° 4	3°53	13° 1	T 5
F 6	17 30 54	23° 4'37	24°56	16°32	11°16	3°50	17°59	19°42	25°44	29°18	16°16	6°47	6° 0	4° 0	13° 3	F 6
S 7	17 34 50	24° 1'48	9 ^{III} 57	18°41	10°53	4°27	17°51	19°46	25°47	29°19	16°17	6°39	5°57	4° 6	13° 4	S 7
S 8	17 38 47	24°58'59	25°13	20°51	10°27	5° 4	17°44	19°51	25°51	29°20	16°19	6°29	5°54	4°13	13° 6	S 8
M 9	17 42 43	25°56'09	10 ^{III} 32	23° 2	10° 0	5°40	17°36	19°56	25°54	29°21	16°20	6°19	5°51	4°20	13° 8	M 9
T 10	17 46 40	26°53'19	25°34	25°13	9°31	6°17	17°29	20° 0	25°57	29°22	16°22	6° 9	5°48	4°27	13° 9	T 10
W11	17 50 36	27°50'29	10 ^{III} 38	27°24	9° 1	6°53	17°21	20° 5	26° 0	29°24	16°23	6° 1	5°45	4°33	13°11	W11
T 12	17 54 33	28°47'39	25° 7	29°35	8°28	7°30	17°14	20° 9	26° 3	29°25	16°25	5°56	5°41	4°40	13°12	T 12
F 13	17 58 30	29°44'49	9 ^{III} 8	1 ^{III} 45	7°55	8° 7	17° 6	20°13	26° 6	29°26	16°26	5°53	5°38	4°47	13°14	F 13
S 14	18 2 26	0 ^{III} 41'59	22°41	3°55	7°20	8°44	16°59	20°17	26° 9	29°27	16°28	5°51	5°35	4°53	13°15	S 14
S 15	18 6 23	1°39'09	5 ^{III} 49	6° 4	6°44	9°20	16°52	20°21	26°12	29°29	16°29	5°51	5°32	5° 0	13°16	S 15
M16	18 10 19	2°36'20	18°34	8°11	6° 7	9°57	16°45	20°25	26°15	29°30	16°31	5°51	5°29	5° 7	13°17	M16
T 17	18 14 16	3°33'31	1 ^{III} 2	10°17	5°30	10°34	16°38	20°29	26°18	29°31	16°33	5°49	5°25	5°14	13°19	T 17
W18	18 18 12	4°30'42	13°16	12°22	4°53	11°11	16°31	20°33	26°21	29°33	16°34	5°46	5°22	5°20	13°20	W18
T 19	18 22 9	5°27'53	25°21	14°25	4°15	11°48	16°24	20°37	26°24	29°34	16°36	5°39	5°19	5°27	13°21	T 19
F 20	18 26 5	6°25'05	7 ^{III} 19	16°27	3°38	12°24	16°17	20°40	26°27	29°36	16°37	5°29	5°16	5°34	13°22	F 20
S 21	18 30 2	7°22'17	19°13	18°27	3° 1	13° 1	16°10	20°44	26°30	29°37	16°39	5°18	5°13	5°41	13°23	S 21
S 22	18 33 59	8°19'29	1 ^{III} 5	20°25	2°25	13°38	16° 3	20°47	26°33	29°39	16°41	5° 4	5°10	5°47	13°24	S 22
M23	18 37 55	9°16'41	12°57	22°21	1°50	14°15	15°57	20°51	26°35	29°40	16°42	4°50	5° 6	5°54	13°25	M23
T 24	18 41 52	10°13'54	24°50	24°15	1°15	14°52	15°51	20°54	26°38	29°42	16°44	4°37	5° 3	6° 1	13°26	T 24
W25	18 45 48	11°11'06	6 ^{III} 46	26° 7	0°42	15°29	15°44	20°57	26°41	29°44	16°45	4°25	5° 0	6° 7	13°26	W25
T 26	18 49 45	12° 8'19	18°46	27°58	0°11	16° 6	15°38	21° 0	26°44	29°45	16°47	4°16	4°57	6°14	13°27	T 26
F 27	18 53 41	13° 5'32	0 ^{III} 52	29°47	29 ^{III} 41	16°44	15°32	21° 3	26°46	29°47	16°49	4° 9	4°54	6°21	13°28	F 27
S 28	18 57 38	14° 2'45	13° 9	1 ^{III} 33	29°13	17°21	15°26	21° 6	26°49	29°48	16°50	4° 6	4°51	6°28	13°28	S 28
S 29	19 1 34	14°59'58	25°39	3°18	28°47	17°58	15°20	21° 9	26°52	29°50	16°52	4° 4	4°47	6°34	13°29	S 29
M30	19 5 31	15°57'11	8 ^{III} 26	5 ^{III} 1	28 ^{III} 23	18°35	15°14	21°12	26°54	29°52	16°53	4°D 4	4°44	6°34	13°29	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	decl	lat	decl	lat
S 1	23n 0	3n44	1s47	20n51	0s33	23n27	0n32	21n21	1n20	22s34	0n28	5n22	2s23	18n59	0s13	12n31	0n46	23n45	1n14	2s46	2s30	18n20	6n46	1n48					
M 2	23 4	0s19	0 41	21 23	0 21	23 16	0 20	21 12	1 20	22 33	0 28	5 24	2 23	18 59	0 13	12 30	0 46	23 45	1 14	2 46	2 29	18 19	6 47	1 48					
T 3	23 9	4 29	0n29	21 53	0 10	23 5	0 8	21 4	1 20	22 33	0 27	5 26	2 23	19 0	0 13	12 30	0 46	23 45	1 14	2 46	2 27	18 19	6 48	1 48					
W 4	23 13	8 34	1 40	22 21	0n 1	22 54	0s 5	20 55	1 19	22 32	0 27	5 27	2 23	19 1	0 13	12 29	0 46	23 45	1 14	2 46	2 26	18 19	6 48	1 48					
T 5	23 16	12 19	2 47	22 47	0 12	22 42	0 18	20 46	1 19	22 31	0 27	5 29	2 24	19 2	0 13	12 29	0 46	23 45	1 14	2 44	2 25	18 19	6 49	1 48					
F 6	23 20	15 25	3 45	23 12	0 22	22 31	0 31	20 38	1 19	22 31	0 27	5 30	2 24	19 3	0 13	12 29	0 46	23 45	1 14	2 42	2 24	18 19	6 50	1 48					
S 7	23 22	17 34	4 29	23 34	0 33	22 19	0 44	20 28	1 18	22 30	0 27	5 32	2 24	19 3	0 13	12 28	0 46	23 45	1 14	2 39	2 22	18 18	6 50	1 48					
S 8	23 25	18 30	4 55	23 54	0 42	22 8	0 58	20 19	1 18	22 30	0 27	5 34	2 24	19 4	0 13	12 28	0 46	23 44	1 14	2 35	2 21	18 18	6 51	1 49					
M 9	23 27	18 6	5 0	24 11	0 52	21 56	1 12	20 10	1 18	22 29	0 27	5 35	2 24	19 5	0 13	12 27	0 46	23 44	1 14	2 31	2 20	18 18	6 52	1 49					
T 10	23 28	16 25	4 44	24 26	1 0	21 44	1 26	20 0	1 17	22 29	0 26	5 37	2 25	19 6	0 13	12 27	0 46	23 44	1 14	2 27	2 18	18 18	6 52	1 49					
W11	23 30	13 38	4 8	24 38	1 9	21 32	1 40	19 51	1 17	22 28	0 26	5 38	2 25	19 6	0 13	12 26	0 46	23 44	1 14	2 24	2 17	18 17	6 53	1 49					
T 12	23 30	10 5	3 18	24 47	1 16	21 20	1 55	19 41	1 17	22 28	0 26	5 39	2 25	19 7	0 13	12 26	0 46	23 44	1 15	2 22	2 16	18 17	6 54	1 49					
F 13	23 31	6 4	2 16	24 53	1 23	21 8	2 9	19 31	1 16	22 27	0 26	5 41	2 25	19 8	0 13	12 26	0 46	23 44	1 15	2 20	2 15	18 17	6 54	1 49					
S 14	23 30	1 51	1 9	24 56	1 29	20 56	2 23	19 21	1 16	22 27	0 26	5 42	2 26	19 8	0 13	12 25	0 46	23 44	1 15	2 20	2 13	18 17	6 55	1 49					
S 15	23 30	2n19	0 0	24 57	1 35	20 43	2 37	19 11	1 16	22 26	0 26	5 43	2 26	19 9	0 13	12 25	0 46	23 43	1 15	2 20	2 12	18 16	6 55	1 49					
M16	23 29	6 16	1s 7	24 55	1 39	20 31	2 51	19 1	1 15	22 25	0 25	5 45	2 26	19 10	0 13	12 24	0 46	23 43	1 15	2 20	2 11	18 16	6 56	1 49					
T 17	23 28	9 51	2 9	24 50	1 43	20 19	3 4	18 51	1 15	22 25	0 25	5 46	2 26	19 11	0 13	12 24	0 46	23 43	1 15	2 19	2 10	18 16	6 56	1 49					
W18	23 26	12 57	3 4	24 42	1 47	20 8	3 18	18 40	1 15	22 24	0 25	5 47	2 27	19 11	0 13	12 23	0 46	23 43	1 15	2 18	2 8	18 16	6 57	1 49					
T 19	23 24	15 26	3 50	24 32	1 49	19 56	3 30	18 29	1 14	22 24	0 25	5 48	2 27	19 12	0 13	12 23	0 46	23 43	1 15	2 15	2 7	18 15	6 57	1 49					
F 20	23 21	17 14	4 25	24 20	1 51	19 45	3 43	18 19	1 14	22 23	0 25	5 49	2 27	19 13	0 13	12 22	0 46	23 43	1 15	2 11	2 6	18 15	6 58	1 49					
S 21	23 18	18 17	4 48	24 5	1 52	19 34	3 55	18 8	1 14	22 23	0 25	5 50	2 27	19 13	0 13	12 22	0 46	23 43	1 15	2 7	2 5	18 15	6 58	1 49					
S 22	23 15	18 31	4 59	23 48	1 52	19 23	4 7	17 57	1 13	22 22	0 25	5 52	2 28	19 14	0 13	12 21	0 46	23 42	1 15	2 1	2 3	18 15	6 58	1 49					
M23	23 11	17 57	4 57	23 30	1 52	19 12	4 18	17 46	1 13	22 22	0 24	5 53	2 28	19 15	0 13	12 20	0 46	23 42	1 15	1 56	2 2	18 14	6 59	1 49					
T 24	23 7	16 36	4 42	23 9	1 51	19 2	4 28	17 35	1 13	22 21	0 24	5 54	2 28	19 15	0 13	12 20	0 46	23 42	1 15	1 50	2 1	18 14	6 59	1 49					
W25	23 2	14 32	4 14	22 47	1 50	18 53	4 38	17 23	1 12	22 21	0 24	5 54	2 28	19 16	0 13	12 19	0 46	23 42	1 15	1 46	2 0	18 14	7 0	1 49					
T 26	22 57	11 50	3 35	22 23	1 47	18 43	4 47	17 12	1 12	22 20	0 24	5 55	2 29	19 17	0 13	12 19	0 46	23 42	1 15	1 42	1 58	18 13	7 0	1 49					
F 27	22 52	8 37	2 46	21 58	1 45	18 35	4 56	17 0	1 11	22 20	0 24	5 56	2 29	19 17	0 13	12 18	0 46	23 42	1 15	1 39	1 57	18 13	7 0	1 49					
S 28	22 46	4 58	1 48	21 31	1 41	18 27	5 4	16 49	1 11	22 19	0 23	5 57	2 29	19 18	0 13	12 18	0 46	23 42	1 15	1 38	1 56	18 13	7 0	1 49					
S 29	22 40	1 3	0 44	21 3	1 37	18 19	5 11	16 37	1 11	22 19	0 23	5 58	2 29	19 18	0 13	12 17	0 46	23 41	1 16	1 37	1 55	18 13	7 1	1 49					
M30	22n33	3s 0	0n23	20n34	1n33	18n12	5s18	16n25	1n10	22s18	0n23	5n59	2s30	19n19	0s13	12n16	0n46	23n41	1n16	1s37	1s53	18n12	7n 1	1n49					

ASTRODIENST EPHEMERIS for the year 1438

geocentric

JULY 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	19 9 28	16°54'25	21°43'5	6°42	28°R 1	19°12	15°R 9	21°14	26°57	29°154	16°55	4°R 4	4°41	6°48	13°30	T 1
W 2	19 13 24	17°51'38	5°11 9	8°21	27°II41	19°49	15°4 4	21°17	26°59	29°55	16°57	4°3	4°38	6°54	13°30	W 2
T 3	19 17 21	18°48'52	19°10	9°58	27°23	20°27	14°58	21°19	27° 2	29°57	16°58	4° 0	4°35	7° 1	13°31	T 3
F 4	19 21 17	19°46'06	3°38	11°34	27° 8	21° 4	14°53	21°21	27° 4	29°59	17° 0	3°55	4°31	7° 8	13°31	F 4
S 5	19 25 14	20°43'21	18°31	13° 7	26°55	21°41	14°48	21°24	27° 7	0°1	17° 2	3°47	4°28	7°15	13°31	S 5
S 6	19 29 10	21°40'36	3°41	14°39	26°44	22°18	14°43	21°26	27° 9	0° 2	17° 3	3°38	4°25	7°21	13°31	S 6
M 7	19 33 7	22°37'51	18°58	16° 8	26°36	22°56	14°39	21°28	27°11	0° 4	17° 5	3°28	4°22	7°28	13°31	M 7
T 8	19 37 3	23°35'07	4°12	17°36	26°31	23°33	14°34	21°30	27°14	0° 6	17° 6	3°19	4°19	7°35	13°32	T 8
W 9	19 41 0	24°32'24	19°11	19° 2	26°27	24°11	14°30	21°32	27°16	0° 8	17° 8	3°11	4°16	7°42	13°32	W 9
T 10	19 44 57	25°29'42	3°48	20°25	26°D26	24°48	14°26	21°33	27°18	0°10	17°10	3° 6	4°12	7°48	13°32	T 10
F 11	19 48 53	26°27'00	17°57	21°47	26°28	25°25	14°22	21°35	27°20	0°12	17°11	3° 3	4° 9	7°55	13°31	F 11
S 12	19 52 50	27°24'20	1°37	23° 7	26°31	26° 3	14°18	21°36	27°22	0°14	17°13	3°D 2	4° 6	8° 2	13°31	S 12
S 13	19 56 46	28°21'40	14°49	24°24	26°37	26°40	14°14	21°38	27°24	0°16	17°14	3° 2	4° 3	8° 8	13°31	S 13
M14	20 0 43	29°19'02	27°37	25°39	26°45	27°18	14°10	21°39	27°26	0°18	17°16	3°R 3	4° 0	8°15	13°31	M14
T 15	20 4 39	0°16'25	10°8 5	26°53	26°56	27°56	14° 7	21°40	27°28	0°20	17°18	3° 2	3°56	8°22	13°31	T 15
W16	20 8 36	1°13'49	22°17	28° 4	27° 8	28°33	14° 4	21°42	27°30	0°22	17°19	3° 0	3°53	8°29	13°30	W16
T 17	20 12 32	2°11'14	4°19	29°12	27°22	29°11	14° 1	21°43	27°32	0°24	17°21	2°55	3°50	8°35	13°30	T 17
F 18	20 16 29	3° 8'40	16°14	0°18	27°39	29°49	13°58	21°43	27°34	0°26	17°22	2°49	3°47	8°42	13°29	F 18
S 19	20 20 26	4° 6'08	28° 6	1°22	27°57	0°26	13°55	21°44	27°36	0°28	17°24	2°40	3°44	8°49	13°29	S 19
S 20	20 24 22	5° 3'37	9°57	2°23	28°17	1° 4	13°53	21°45	27°38	0°30	17°25	2°29	3°41	8°56	13°28	S 20
M21	20 28 19	6° 1'07	21°51	3°21	28°39	1°42	13°50	21°46	27°40	0°32	17°27	2°19	3°37	9° 2	13°28	M21
T 22	20 32 15	6°58'38	3°48	4°16	29° 2	2°20	13°48	21°46	27°41	0°34	17°28	2° 8	3°34	9° 9	13°27	T 22
W23	20 36 12	7°56'10	15°51	5° 9	29°27	2°57	13°46	21°46	27°43	0°36	17°30	1°59	3°31	9°16	13°26	W23
T 24	20 40 8	8°53'43	28° 0	5°58	29°54	3°35	13°45	21°47	27°45	0°38	17°32	1°52	3°28	9°22	13°25	T 24
F 25	20 44 5	9°51'17	10°17	6°44	0°23	4°13	13°43	21°47	27°46	0°40	17°33	1°48	3°25	9°29	13°24	F 25
S 26	20 48 1	10°48'53	22°44	7°26	0°52	4°51	13°42	21°47	27°48	0°42	17°35	1°45	3°22	9°36	13°24	S 26
S 27	20 51 58	11°46'29	5°23	8° 5	1°24	5°29	13°40	21°47	27°49	0°44	17°36	1°D45	3°18	9°43	13°23	S 27
M28	20 55 55	12°44'06	18°17	8°39	1°56	6° 7	13°39	21°47	27°51	0°46	17°38	1°46	3°15	9°49	13°22	M28
T 29	20 59 51	13°41'45	1°28	9°10	2°30	6°45	13°39	21°46	27°52	0°49	17°39	1°47	3°12	9°56	13°21	T 29
W30	21 3 48	14°39'24	15° 0	9°36	3° 5	7°23	13°38	21°46	27°54	0°51	17°41	1°R48	3° 9	10° 3	13°19	W30
T 31	21 7 44	15°37'04	28°53	9°58	3°42	8°1	13°37	21°46	27°55	0°53	17°42	1°47	3°6	10°9	13°18	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22n26	7s 1	1n31	20n 4	1n28	18n 6	5s24	16n13	1n10	22s18	0n23	5n59	2s30	19n20	0s13	12n16
W 2	22 19	10 49	2 37	19 33	1 22	18 0	5 29	16 1	1 10	22 18	0 23	6 0	2 30	19 20	0 13	12 15
T 3	22 11	14 7	3 35	19 2	1 17	17 55	5 34	15 49	1 9	22 17	0 23	6 1	2 31	19 21	0 13	12 14
F 4	22 3	16 40	4 21	18 29	1 10	17 50	5 38	15 36	1 9	22 17	0 22	6 1	2 31	19 21	0 13	12 14
S 5	21 54	18 10	4 51	17 56	1 3	17 46	5 42	15 24	1 8	22 16	0 22	6 2	2 31	19 22	0 13	12 13
S 6	21 46	18 26	5 2	17 23	0 56	17 43	5 45	15 11	1 8	22 16	0 22	6 2	2 31	19 22	0 13	12 13
M 7	21 36	17 21	4 51	16 49	0 49	17 40	5 48	14 59	1 8	22 16	0 22	6 3	2 32	19 23	0 13	12 12
T 8	21 27	15 3	4 20	16 15	0 41	17 38	5 50	14 46	1 7	22 15	0 22	6 3	2 32	19 23	0 13	12 11
W 9	21 17	11 46	3 31	15 41	0 32	17 36	5 51	14 33	1 7	22 15	0 22	6 4	2 32	19 24	0 13	12 11
T 10	21 6	7 50	2 29	15 6	0 24	17 35	5 52	14 20	1 7	22 15	0 21	6 4	2 32	19 24	0 13	12 10
F 11	20 56	3 34	1 19	14 31	0 15	17 35	5 53	14 7	1 6	22 14	0 21	6 5	2 33	19 25	0 13	12 9
S 12	20 44	0n46	0 8	13 57	0 6	17 35	5 53	13 54	1 6	22 14	0 21	6 5	2 33	19 25	0 13	12 9
S 13	20 33	4 54	1s 2	13 22	0s 4	17 35	5 53	13 41	1 5	22 14	0 21	6 5	2 33	19 26	0 13	12 8
M14	20 21	8 41	2 7	12 47	0 14	17 36	5 53	13 28	1 5	22 14	0 21	6 5	2 34	19 26	0 13	12 7
T 15	20 9	11 58	3 4	12 13	0 24	17 37	5 52	13 14	1 5	22 13	0 20	6 6	2 34	19 27	0 13	12 6
W16	19 57	14 40	3 51	11 39	0 34	17 38	5 50	13 1	1 4	22 13	0 20	6 6	2 34	19 27	0 13	12 5
T 17	19 44	16 41	4 28	11 5	0 45	17 40	5 49	12 47	1 4	22 13	0 20	6 6	2 34	19 28	0 13	12 5
F 18	19 31	17 57	4 52	10 32	0 55	17 43	5 47	12 34	1 3	22 13	0 20	6 6	2 35	19 28	0 13	12 4
S 19	19 17	18 27	5 3	9 59	1 6	17 45	5 45	12 20	1 3	22 13	0 20	6 6	2 35	19 29	0 13	12 4
S 20	19 3	18 7	5 2	9 27	1 17	17 48	5 42	12 6	1 3	22 13	0 20	6 6	2 35	19 29	0 13	12 3
M21	18 49	17 0	4 47	8 56	1 29	17 51	5 39	11 52	1 2	22 12	0 19	6 6	2 36	19 29	0 13	12 2
T 22	18 35	15 9	4 20	8 25	1 40	17 54	5 36	11 38	1 2	22 12	0 19	6 6	2 36	19 30	0 13	12 1
W23	18 20	12 37	3 41	7 56	1 51	17 57	5 33	11 24	1 1	22 12	0 19	6 6	2 36	19 30	0 13	12 1
T 24	18 5	9 32	2 51	7 27	2 3	18 1	5 30	11 10	1 1	22 12	0 19	6 6	2 36	19 30	0 13	12 0
F 25	17 50	6 0	1 53	7 0	2 14	18 4	5 26	10 56	1 1	22 12	0 19	6 5	2 37	19 31	0 13	11 59
S 26	17 34	2 9	0 48	6 33	2 26	18 8	5 22	10 42	1 0	22 12	0 18	6 5	2 37	19 31	0 13	11 58
S 27	17 18	1s51	0n20	6 8	2 37	18 12	5 18	10 27	1 0	22 12	0 18	6 5	2 37	19 32	0 13	11 58
M28	17 2	5 50	1 28	5 45	2 48	18 15	5 14	10 13	0 59	22 12	0 18	6 5	2 37	19 32	0 13	11 57
T 29	16 46	9 37	2 33	5 23	2 59	18 19	5 10	9 58	0 59	22 12	0 18	6 4	2 38	19 32	0 13	11 56
W30	16 29	13 0	3 32	5 3	3 10	18 23	5 6	9 44	0 59	22 13	0 18	6 4	2 38	19 32	0 13	11 55
T 31	16n12	15s45	4n20	4n45	3s21	18n26	5s 1	9n29	0n58	22s13	0n18	6n 3	2s38	19n33	0s13	11n55

Julian Day Number = 2246468.5, Delta T = 06m50s

Ecliptic obliquity = 23°30'34", Nutation = 0°00'02", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°54'25", Lahiri = 16°01'25" Julian Calendar 1 July 1438 == Greg. Calendar 10 July 1438

ASTRODIENST EPHEMERIS for the year 1438
geocentric

AUGUST 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	21 11 41	16♌34'46	13♊ 9	10♍15	4♋20	8♍39	13°R37	21°R45	27♊56	0♍55	17♋43	1°R44	3♊ 2	10♋16	13°R17	F 1
S 2	21 15 37	17°32'29	27°45	10°27	4°58	9°17	13°D37	21°Y44	27°57	0°57	17°45	1♌40	2°59	10°23	13°Y16	S 2
S 3	21 19 34	18°30'12	12♊37	10°34	5°38	9°55	13♊37	21°44	27°59	0°59	17°46	1°34	2°56	10°30	13°15	S 3
M 4	21 23 30	19°27'57	27°37	10°R35	6°19	10°34	13°38	21°43	28° 0	1° 2	17°48	1°28	2°53	10°36	13°13	M 4
T 5	21 27 27	20°25'43	12♋37	10°30	7° 1	11°12	13°38	21°42	28° 1	1° 4	17°49	1°22	2°50	10°43	13°12	T 5
W 6	21 31 24	21°23'31	27°27	10°20	7°44	11°50	13°39	21°41	28° 2	1° 6	17°51	1°17	2°47	10°50	13°10	W 6
T 7	21 35 20	22°21'20	11♋59	10° 4	8°28	12°28	13°40	21°40	28° 3	1° 8	17°52	1°14	2°43	10°57	13° 9	T 7
F 8	21 39 17	23°19'11	26° 9	9°42	9°13	13° 7	13°41	21°38	28° 4	1°10	17°53	1°D13	2°40	11° 3	13° 7	F 8
S 9	21 43 13	24°17'03	9♍52	9°15	9°59	13°45	13°42	21°37	28° 5	1°13	17°55	1°13	2°37	11°10	13° 6	S 9
S 10	21 47 10	25°14'57	23° 9	8°41	10°46	14°24	13°43	21°35	28° 5	1°15	17°56	1°14	2°34	11°17	13° 4	S 10
M 11	21 51 6	26°12'53	6♊ 1	8° 2	11°33	15° 2	13°45	21°34	28° 6	1°17	17°57	1°16	2°31	11°23	13° 2	M 11
T 12	21 55 3	27°10'51	18°32	7°18	12°21	15°40	13°47	21°32	28° 7	1°19	17°59	1°17	2°28	11°30	13° 1	T 12
W 13	21 58 59	28° 8'51	0♌47	6°30	13°11	16°19	13°49	21°30	28° 8	1°21	18° 0	1°R17	2°24	11°37	12°59	W 13
T 14	22 2 56	29° 6'53	12°50	5°38	14° 0	16°57	13°51	21°28	28° 8	1°24	18° 1	1°16	2°21	11°44	12°57	T 14
F 15	22 6 52	0♍ 4'57	24°45	4°43	14°51	17°36	13°53	21°26	28° 9	1°26	18° 2	1°14	2°18	11°50	12°55	F 15
S 16	22 10 49	1° 3'02	6♋37	3°46	15°42	18°15	13°56	21°24	28° 9	1°28	18° 4	1°10	2°15	11°57	12°53	S 16
S 17	22 14 46	2° 1'10	18°30	2°49	16°34	18°53	13°58	21°22	28°10	1°30	18° 5	1° 6	2°12	12° 4	12°51	S 17
M 18	22 18 42	2°59'19	0♌26	1°52	17°27	19°32	14° 1	21°20	28°10	1°33	18° 6	1° 1	2° 8	12°10	12°49	M 18
T 19	22 22 39	3°57'31	12°30	0°56	18°20	20°11	14° 4	21°17	28°11	1°35	18° 7	0°56	2° 5	12°17	12°47	T 19
W 20	22 26 35	4°55'44	24°42	0° 4	19°14	20°49	14° 7	21°15	28°11	1°37	18° 9	0°52	2° 2	12°24	12°45	W 20
T 21	22 30 32	5°53'59	7♍ 3	29♌16	20° 8	21°28	14°11	21°12	28°11	1°39	18°10	0°49	1°59	12°31	12°43	T 21
F 22	22 34 28	6°52'15	19°36	28°33	21° 3	22° 7	14°14	21°10	28°11	1°41	18°11	0°47	1°56	12°37	12°41	F 22
S 23	22 38 25	7°50'34	2♌21	27°57	21°59	22°46	14°18	21° 7	28°12	1°44	18°12	0°D47	1°53	12°44	12°39	S 23
S 24	22 42 21	8°48'54	15°18	27°28	22°55	23°25	14°22	21° 4	28°12	1°46	18°13	0°47	1°49	12°51	12°37	S 24
M 25	22 46 18	9°47'16	28°28	27° 7	23°51	24° 4	14°26	21° 1	28°12	1°48	18°14	0°49	1°46	12°58	12°34	M 25
T 26	22 50 15	10°45'39	11♌53	26°55	24°48	24°43	14°30	20°58	28°R12	1°50	18°15	0°50	1°43	13° 4	12°32	T 26
W 27	22 54 11	11°44'04	25°31	26°D52	25°46	25°22	14°35	20°55	28°12	1°53	18°16	0°51	1°40	13°11	12°30	W 27
T 28	22 58 8	12°42'31	9♊25	26°58	26°44	26° 1	14°40	20°52	28°12	1°55	18°17	0°R52	1°37	13°18	12°27	T 28
F 29	23 2 4	13°41'00	23°32	27°13	27°42	26°40	14°44	20°49	28°11	1°57	18°18	0°52	1°33	13°24	12°25	F 29
S 30	23 6 1	14°39'30	7♋53	27°38	28°41	27°19	14°49	20°46	28°11	1°59	18°19	0°51	1°30	13°31	12°23	S 30
S 31	23 9 57	15♍38'02	22♋22	28♌11	29♋40	27♍58	14♊54	20°Y42	28♊11	2♍ 1	18♋20	0♌49	1♌27	13♋38	12°Y20	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
F 1	15n55	17s36	4n53	4n29	3s31	18n30	4s56	9n14	0n58	22s13	0n17	6n 3	2s39	19n33	0s13	11n54	0n46	23n37	1n18	0s42	1s13	18n 1	6n57	1n50
S 2	15 37	18 21	5 8	4 16	3 41	18 33	4 52	9 0	0 57	22 13	0 17	6 2	2 39	19 33	0 13	11 53	0 46	23 37	1 18	0 40	1 11	18 1	6 56	1 50
S 3	15 20	17 53	5 3	4 4	3 50	18 37	4 47	8 45	0 57	22 13	0 17	6 2	2 39	19 34	0 13	11 52	0 46	23 37	1 18	0 38	1 10	18 0	6 56	1 50
M 4	15 2	16 10	4 38	3 56	3 59	18 40	4 42	8 30	0 57	22 13	0 17	6 1	2 39	19 34	0 13	11 52	0 46	23 37	1 18	0 35	1 9	18 0	6 55	1 50
T 5	14 43	13 21	3 53	3 50	4 7	18 43	4 37	8 15	0 56	22 14	0 17	6 1	2 40	19 34	0 13	11 51	0 46	23 37	1 18	0 33	1 8	18 0	6 55	1 50
W 6	14 25	9 41	2 53	3 47	4 14	18 46	4 32	8 0	0 56	22 14	0 17	6 0	2 40	19 34	0 13	11 50	0 46	23 37	1 18	0 31	1 6	17 59	6 54	1 50
T 7	14 6	5 30	1 43	3 47	4 21	18 48	4 26	7 45	0 55	22 14	0 16	5 59	2 40	19 35	0 13	11 49	0 46	23 36	1 18	0 30	1 5	17 59	6 54	1 50
F 8	13 47	1 7	0 28	3 51	4 26	18 51	4 21	7 30	0 55	22 14	0 16	5 59	2 40	19 35	0 13	11 48	0 46	23 36	1 18	0 29	1 4	17 58	6 53	1 50
S 9	13 28	3n12	0s47	3 58	4 30	18 53	4 16	7 15	0 54	22 15	0 16	5 58	2 41	19 35	0 13	11 48	0 46	23 36	1 19	0 29	1 3	17 58	6 52	1 50
S 10	13 9	7 13	1 57	4 8	4 32	18 55	4 10	6 59	0 54	22 15	0 16	5 57	2 41	19 35	0 13	11 47	0 46	23 36	1 19	0 30	1 1	17 58	6 52	1 50
M11	12 49	10 46	2 58	4 22	4 33	18 56	4 5	6 44	0 54	22 15	0 16	5 56	2 41	19 35	0 13	11 46	0 46	23 36	1 19	0 30	1 0	17 57	6 51	1 50
T 12	12 29	13 43	3 50	4 39	4 32	18 58	3 59	6 29	0 53	22 16	0 15	5 55	2 41	19 35	0 13	11 45	0 46	23 36	1 19	0 31	0 59	17 57	6 50	1 50
W13	12 9	15 59	4 29	4 59	4 29	18 59	3 54	6 13	0 53	22 16	0 15	5 55	2 42	19 36	0 13	11 45	0 46	23 36	1 19	0 31	0 58	17 56	6 50	1 50
T 14	11 49	17 30	4 56	5 22	4 25	18 59	3 48	5 58	0 52	22 17	0 15	5 54	2 42	19 36	0 13	11 44	0 46	23 36	1 19	0 30	0 56	17 56	6 49	1 50
F 15	11 29	18 14	5 10	5 48	4 19	19 0	3 42	5 42	0 52	22 17	0 15	5 53	2 42	19 36	0 13	11 43	0 46	23 36	1 19	0 29	0 55	17 56	6 48	1 50
S 16	11 8	18 10	5 11	6 16	4 10	19 0	3 37	5 27	0 51	22 18	0 15	5 52	2 42	19 36	0 13	11 42	0 46	23 36	1 19	0 28	0 54	17 55	6 47	1 50
S 17	10 47	17 18	4 58	6 46	4 0	18 59	3 31	5 11	0 51	22 18	0 15	5 51	2 43	19 36	0 13	11 41	0 46	23 36	1 19	0 26	0 52	17 55	6 47	1 50
M18	10 26	15 41	4 32	7 18	3 48	18 59	3 25	4 56	0 50	22 19	0 14	5 50	2 43	19 36	0 13	11 41	0 46	23 35	1 19	0 24	0 51	17 54	6 46	1 50
T 19	10 5	13 21	3 54	7 50	3 34	18 57	3 19	4 40	0 50	22 19	0 14	5 48	2 43	19 36	0 13	11 40	0 46	23 35	1 19	0 22	0 50	17 54	6 45	1 50
W20	9 44	10 25	3 5	8 23	3 19	18 56	3 14	4 24	0 50	22 20	0 14	5 47	2 43	19 36	0 13	11 39	0 46	23 35	1 19	0 21	0 49	17 53	6 44	1 50
T 21	9 22	6 59	2 7	8 55	3 2	18 54	3 8	4 9	0 49	22 20	0 14	5 46	2 44	19 36	0 13	11 38	0 46	23 35	1 20	0 20	0 47	17 53	6 43	1 50
F 22	9 1	3 11	1 1	9 27	2 44	18 51	3 2	3 53	0 49	22 21	0 14	5 45	2 44	19 36	0 13	11 37	0 46	23 35	1 20	0 19	0 46	17 52	6 43	1 50
S 23	8 39	0s48	0n 9	9 57	2 26	18 49	2 56	3 37	0 48	22 21	0 14	5 44	2 44	19 36	0 13	11 37	0 46	23 35	1 20	0 19	0 45	17 52	6 42	1 50
S 24	8 17	4 50	1 19	10 24	2 7	18 45	2 50	3 21	0 48	22 22	0 14	5 42	2 44	19 36	0 13	11 36	0 46	23 35	1 20	0 19	0 44	17 52	6 41	1 50
M25	7 55	8 41	2 27	10 50	1 47	18 42	2 45	3 5	0 47	22 23	0 13	5 41	2 44	19 36	0 13	11 35	0 46	23 35	1 20	0 19	0 42	17 51	6 40	1 50
T 26	7 33	12 9	3 28	11 12	1 28	18 38	2 39	2 49	0 47	22 23	0 13	5 40	2 45	19 36	0 13	11 34	0 46	23 35	1 20	0 20	0 41	17 51	6 39	1 50
W27	7 11	15 1	4 18	11 31	1 9	18 33	2 33	2 33	0 46	22 24	0 13	5 39	2 45	19 36	0 13	11 34	0 46	23 35	1 20	0 20	0 40	17 50	6 38	1 50
T 28	6 49	17 5	4 54	11 47	0 50	18 28	2 27	2 18	0 46	22 25	0 13	5 37	2 45	19 36	0 13	11 33	0 46	23 35	1 20	0 21	0 39	17 50	6 37	1 50
F 29	6 26	18 8	5 13	11 58	0 32	18 22	2 21	2 2	0 45	22 25	0 13	5 36	2 45	19 36	0 13	11 32	0 46	23 35	1 20	0 21	0 37	17 49	6 36	1 50
S 30	6 4	18 4	5 13	12 6	0 15	18 16	2 16	1 46	0 45	22 26	0 13	5 34	2 45	19 36	0 13	11 31	0 46	23 35	1 20	0 20	0 36	17 49	6 35	1 50
S 31	5n41	16s49	4n54	12n10	0n 2	18n10	2s10	1n29	0n45	22s27	0n12	5n33	2s46	19n36	0s13	11n30	0n46	23n35	1n20	0s20	0s35	17n48	6n34	1n50

ASTRODIENST EPHEMERIS for the year 1438
geocentric

SEPTEMBER 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	23 13 54	16 ¹¹ 36'35	6 ⁵⁵ 57	28 ¹² 54	0 ¹⁰ 40	28 ¹¹ 37	15 ⁵⁷ 0	20 ¹⁰ R39	28 ¹⁰ R11	2 ¹¹ 3	18 ¹² 21	0 ¹⁰ R47	1 ¹² 24	13 ¹² 45	12 ¹⁰ R18	M 1
T 2	23 17 50	17 ¹⁰ 35'10	21 ³¹ 31	29 ¹⁰ 44	1 ⁴⁰	29 ¹⁶	15 ⁵ 5	20 ¹⁰ Y35	28 ¹⁰ Y10	2 ⁶ 6	18 ¹² 22	0 ¹⁰ 46	1 ²¹	13 ¹⁵ 51	12 ¹⁰ Y15	T 2
W 3	23 21 47	18 ¹⁰ 33'47	5 ⁵⁸ 58	0 ¹¹ 43	2 ⁴⁰	29 ¹⁶	15 ¹¹	20 ¹⁰ 31	28 ¹⁰ 10	2 ⁸ 8	18 ¹² 23	0 ¹⁰ 44	1 ¹⁸	13 ¹⁵ 58	12 ¹⁰ 13	W 3
T 4	23 25 44	19 ¹⁰ 32'25	20 ¹⁴	1 ⁴⁸	3 ⁴¹	0 ¹² 35	15 ¹⁷	20 ¹⁰ 28	28 ¹⁰ 10	2 ¹⁰	18 ¹² 24	0 ¹⁰ 44	1 ¹⁴	14 ¹⁵	12 ¹⁰ 10	T 4
F 5	23 29 40	20 ¹⁰ 31'06	4 ¹¹ 11	3 ¹	4 ⁴²	1 ¹⁴	15 ²²	20 ¹⁰ 24	28 ¹⁰ 9	2 ¹²	18 ¹² 25	0 ¹⁰ D43	1 ¹¹	14 ¹¹	12 ¹⁰ 8	F 5
S 6	23 33 37	21 ¹⁰ 29'49	17 ⁴⁹	4 ¹⁹	5 ⁴⁴	1 ⁵⁴	15 ²⁸	20 ¹⁰ 20	28 ¹⁰ 8	2 ¹⁴	18 ¹² 26	0 ¹⁰ 44	1 ⁸	14 ¹⁸	12 ¹⁰ 5	S 6
S 7	23 37 33	22 ¹⁰ 28'34	1 ¹⁸ 4	5 ⁴²	6 ⁴⁶	2 ³³	15 ³⁵	20 ¹⁰ 16	28 ¹⁰ 8	2 ¹⁶	18 ¹² 27	0 ¹⁰ 44	1 ⁵	14 ²⁵	12 ¹⁰ 2	S 7
M 8	23 41 30	23 ¹⁰ 27'21	13 ⁵⁸	7 ¹⁰	7 ⁴⁸	3 ¹³	15 ⁴¹	20 ¹⁰ 12	28 ¹⁰ 7	2 ¹⁸	18 ¹² 28	0 ¹⁰ 45	1 ²	14 ³²	12 ¹⁰ 0	M 8
T 9	23 45 26	24 ¹⁰ 26'10	26 ³²	8 ⁴²	8 ⁵¹	3 ⁵²	15 ⁴⁸	20 ¹⁰ 8	28 ¹⁰ 7	2 ²¹	18 ¹² 28	0 ¹⁰ 46	0 ⁵⁹	14 ³⁸	11 ⁵⁷	T 9
W10	23 49 23	25 ¹⁰ 25'02	8 ¹¹ 49	10 ¹⁸	9 ⁵⁴	4 ³²	15 ⁵⁴	20 ¹⁰ 4	28 ¹⁰ 6	2 ²³	18 ¹² 29	0 ¹⁰ 46	0 ⁵⁵	14 ⁴⁵	11 ⁵⁴	W10
T 11	23 53 19	26 ¹⁰ 23'56	20 ⁵⁴	11 ⁵⁷	10 ⁵⁷	5 ¹¹	16 ¹	20 ¹⁰ 0	28 ¹⁰ 5	2 ²⁵	18 ¹² 30	0 ¹⁰ 47	0 ⁵²	14 ⁵²	11 ⁵²	T 11
F 12	23 57 16	27 ¹⁰ 22'53	2 ¹² 50	13 ³⁷	12 ¹	5 ⁵¹	16 ⁸	19 ¹⁰ 56	28 ¹⁰ 4	2 ²⁷	18 ¹² 31	0 ¹⁰ R47	0 ⁴⁹	14 ⁵⁸	11 ⁴⁹	F 12
S 13	0 1 13	28 ¹⁰ 21'51	14 ⁴³	15 ²⁰	13 ⁵	6 ³⁰	16 ¹⁵	19 ¹⁰ 52	28 ¹⁰ 3	2 ²⁹	18 ¹² 31	0 ¹⁰ 47	0 ⁴⁶	15 ⁵	11 ⁴⁶	S 13
S 14	0 5 9	29 ¹⁰ 20'52	26 ³⁶	17 ⁴	14 ⁹	7 ¹⁰	16 ²²	19 ¹⁰ 47	28 ¹⁰ 2	2 ³¹	18 ¹² 32	0 ¹⁰ 46	0 ⁴³	15 ¹²	11 ⁴³	S 14
M15	0 9 6	0 ¹¹ 19'56	8 ¹² 35	18 ⁵⁰	15 ¹⁴	7 ⁵⁰	16 ³⁰	19 ¹⁰ 43	28 ¹⁰ 1	2 ³³	18 ¹² 33	0 ¹⁰ D46	0 ³⁹	15 ¹⁹	11 ⁴¹	M15
T 16	0 13 2	1 ¹⁹ 0'01	20 ⁴³	20 ³⁶	16 ¹⁸	8 ³⁰	16 ³⁷	19 ¹⁰ 39	28 ¹⁰ 0	2 ³⁵	18 ¹² 33	0 ¹⁰ 46	0 ³⁶	15 ²⁵	11 ³⁸	T 16
W17	0 16 59	2 ¹⁸ 0'09	3 ¹¹ 3	22 ²³	17 ²³	9 ⁹	16 ⁴⁵	19 ¹⁰ 34	27 ¹⁰ 59	2 ³⁷	18 ¹² 34	0 ¹⁰ 46	0 ³³	15 ³²	11 ³⁵	W17
T 18	0 20 55	3 ¹⁷ 1'19	15 ³⁷	24 ¹⁰	18 ²⁹	9 ⁴⁹	16 ⁵³	19 ¹⁰ 30	27 ¹⁰ 58	2 ³⁹	18 ¹² 35	0 ¹⁰ 47	0 ³⁰	15 ³⁹	11 ³²	T 18
F 19	0 24 52	4 ¹⁶ 3'31	28 ²⁷	25 ⁵⁷	19 ³⁴	10 ²⁹	17 ¹	19 ¹⁰ 25	27 ¹⁰ 57	2 ⁴¹	18 ¹² 35	0 ¹⁰ R47	0 ²⁷	15 ⁴⁵	11 ³⁰	F 19
S 20	0 28 48	5 ¹⁵ 4'5	11 ¹² 33	27 ⁴⁴	20 ⁴⁰	11 ⁹	17 ⁹	19 ¹⁰ 21	27 ¹⁰ 56	2 ⁴³	18 ¹² 36	0 ¹⁰ 47	0 ²⁴	15 ⁵²	11 ²⁷	S 20
S 21	0 32 45	6 ¹⁵ 0'1	24 ⁵⁵	29 ³¹	21 ⁴⁶	11 ⁴⁹	17 ¹⁷	19 ¹⁰ 16	27 ¹⁰ 55	2 ⁴⁵	18 ¹² 36	0 ¹⁰ 46	0 ²⁰	15 ⁵⁹	11 ²⁴	S 21
M22	0 36 41	7 ¹⁴ 1'19	8 ¹³ 31	1 ¹² 18	22 ⁵²	12 ²⁹	17 ²⁶	19 ¹⁰ 11	27 ¹⁰ 53	2 ⁴⁷	18 ¹² 37	0 ¹⁰ 46	0 ¹⁷	16 ⁶	11 ²¹	M22
T 23	0 40 38	8 ¹³ 4'0	22 ¹⁸	3 ⁴	23 ⁵⁹	13 ⁹	17 ³⁴	19 ¹⁰ 7	27 ¹⁰ 52	2 ⁴⁹	18 ¹² 37	0 ¹⁰ 45	0 ¹⁴	16 ¹²	11 ¹⁸	T 23
W24	0 44 35	9 ¹³ 0'2	6 ¹¹ 16	4 ⁴⁹	25 ⁶	13 ⁴⁹	17 ⁴³	19 ¹⁰ 2	27 ¹⁰ 50	2 ⁵⁰	18 ¹² 38	0 ¹⁰ 44	0 ¹¹	16 ¹⁹	11 ¹⁵	W24
T 25	0 48 31	10 ¹² 2'26	20 ²¹	6 ³⁴	26 ¹³	14 ²⁹	17 ⁵²	18 ¹⁰ 57	27 ¹⁰ 49	2 ⁵²	18 ¹² 38	0 ¹⁰ 43	0 ⁸	16 ²⁶	11 ¹²	T 25
F 26	0 52 28	11 ¹¹ 1'51	4 ¹³ 31	8 ¹⁹	27 ²⁰	15 ¹⁰	18 ⁰	18 ¹⁰ 53	27 ¹⁰ 48	2 ⁵⁴	18 ¹² 38	0 ¹⁰ D43	0 ⁵	16 ³³	11 ¹⁰	F 26
S 27	0 56 24	12 ¹¹ 1'19	18 ⁴³	10 ³	28 ²⁷	15 ⁵⁰	18 ⁹	18 ¹⁰ 48	27 ¹⁰ 46	2 ⁵⁶	18 ¹² 39	0 ¹⁰ 43	0 ¹	16 ³⁹	11 ⁷	S 27
S 28	1 0 21	13 ¹⁰ 10'48	2 ¹² 56	11 ⁴⁶	29 ³⁵	16 ³⁰	18 ¹⁹	18 ¹⁰ 43	27 ¹⁰ 44	2 ⁵⁸	18 ¹² 39	0 ¹⁰ 43	29 ¹¹ 58	16 ⁴⁶	11 ⁴	S 28
M29	1 4 17	14 ¹⁰ 10'19	17 ⁷	13 ²⁹	0 ¹¹ 42	17 ¹⁰	18 ²⁸	18 ¹⁰ 38	27 ¹⁰ 43	3 ⁰	18 ¹² 39	0 ¹⁰ 44	29 ¹¹ 55	16 ⁵³	11 ¹	M29
T 30	1 8 14	15 ¹² 9'52	1 ¹³ 13	15 ¹¹	1 ¹¹ 50	17 ¹² 51	18 ¹³ 37	18 ¹⁰ Y33	27 ¹⁰ 41	3 ¹¹ 1	18 ¹² 40	0 ¹⁰ 45	29 ¹¹ 52	16 ⁵⁹	10 ¹¹ 58	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
M 1	5n18	14s28	4n15	12n10	0n17	18n 3	2s 4	1n13	0n44	22s28	0n12	5n31	2s46	19n36	0s13	11n30	0n46	23n35	1n21	0s19	0s33	17n48	6n33	1n50	
T 2	4 55	11 13	3 20	12 5	0 32	17 55	1 58	0 57	0 44	22 28	0 12	5 30	2 46	19 36	0 13	11 29	0 46	23 35	1 21	0 18	0 32	17 47	6 32	1 50	
W 3	4 32	7 17	2 13	11 57	0 45	17 47	1 53	0 41	0 43	22 29	0 12	5 28	2 46	19 36	0 13	11 28	0 46	23 35	1 21	0 18	0 31	17 47	6 31	1 50	
T 4	4 9	3 0	0 58	11 45	0 57	17 39	1 47	0 25	0 43	22 30	0 12	5 27	2 46	19 36	0 13	11 27	0 46	23 35	1 21	0 17	0 30	17 46	6 30	1 50	
F 5	3 46	1n23	0s19	11 29	1 8	17 30	1 42	0 9	0 42	22 31	0 12	5 25	2 46	19 36	0 13	11 27	0 46	23 35	1 21	0 17	0 28	17 46	6 29	1 50	
S 6	3 23	5 34	1 33	11 9	1 17	17 21	1 36	0s 7	0 42	22 31	0 12	5 24	2 47	19 36	0 13	11 26	0 46	23 34	1 21	0 17	0 27	17 45	6 28	1 49	
S 7	3 0	9 22	2 40	10 46	1 25	17 11	1 30	0 23	0 41	22 32	0 11	5 22	2 47	19 36	0 13	11 25	0 46	23 34	1 21	0 18	0 26	17 45	6 27	1 49	
M 8	2 36	12 37	3 37	10 20	1 33	17 0	1 25	0 39	0 41	22 33	0 11	5 21	2 47	19 35	0 13	11 24	0 46	23 34	1 21	0 18	0 25	17 44	6 26	1 49	
T 9	2 13	15 11	4 22	9 51	1 39	16 49	1 19	0 56	0 40	22 34	0 11	5 19	2 47	19 35	0 13	11 24	0 47	23 34	1 21	0 18	0 23	17 44	6 25	1 49	
W10	1 50	16 59	4 54	9 19	1 44	16 38	1 14	1 12	0 40	22 35	0 11	5 17	2 47	19 35	0 13	11 23	0 47	23 34	1 21	0 19	0 22	17 43	6 24	1 49	
T 11	1 26	18 0	5 12	8 45	1 47	16 26	1 9	1 28	0 39	22 36	0 11	5 16	2 47	19 35	0 13	11 22	0 47	23 34	1 22	0 19	0 21	17 43	6 23	1 49	
F 12	1 3	18 12	5 17	8 9	1 50	16 14	1 3	1 44	0 39	22 37	0 11	5 14	2 47	19 35	0 13	11 21	0 47	23 34	1 22	0 19	0 20	17 42	6 22	1 49	
S 13	0 39	17 36	5 8	7 31	1 52	16 1	0 58	2 0	0 38	22 37	0 11	5 12	2 48	19 35	0 13	11 21	0 47	23 34	1 22	0 19	0 18	17 42	6 20	1 49	
S 14	0 16	16 13	4 46	6 51	1 53	15 47	0 53	2 16	0 38	22 38	0 10	5 10	2 48	19 34	0 13	11 20	0 47	23 34	1 22	0 19	0 17	17 41	6 19	1 49	
M15	0s 8	14 8	4 11	6 10	1 54	15 34	0 48	2 33	0 37	22 39	0 10	5 9	2 48	19 34	0 13	11 19	0 47	23 34	1 22	0 18	0 16	17 41	6 18	1 49	
T 16	0 32	11 24	3 24	5 28	1 53	15 19	0 42	2 49	0 37	22 40	0 10	5 7	2 48	19 34	0 13	11 19	0 47	23 34	1 22	0 18	0 14	17 40	6 17	1 49	
W17	0 55	8 7	2 28	4 45	1 52	15 5	0 37	3 5	0 36	22 41	0 10	5 5	2 48	19 34	0 13	11 18	0 47	23 34	1 22	0 19	0 13	17 40	6 16	1 49	
T 18	1 19	4 24	1 23	4 0	1 50	14 49	0 32	3 21	0 36	22 42	0 10	5 3	2 48	19 33	0 13	11 17	0 47	23 34	1 22	0 19	0 12	17 39	6 15	1 49	
F 19	1 42	0 25	0 13	3 16	1 48	14 34	0 27	3 37	0 35	22 43	0 10	5 2	2 48	19 33	0 13	11 17	0 47	23 34	1 22	0 19	0 11	17 39	6 14	1 49	
S 20	2 6	3s40	0n59	2 30	1 45	14 17	0 22	3 53	0 35	22 44	0 10	5 0	2 48	19 33	0 13	11 16	0 47	23 35	1 22	0 19	0 9	17 38	6 12	1 49	
S 21	2 29	7 40	2 10	1 45	1 41	14 1	0 18	4 10	0 34	22 45	0 9	4 58	2 48	19 33	0 13	11 15	0 47	23 35	1 22	0 18	0 8	17 38	6 11	1 49	
M22	2 53	11 19	3 14	0 59	1 38	13 44	0 13	4 26	0 34	22 46	0 9	4 56	2 48	19 32	0 13	11 14	0 47	23 35	1 23	0 18	0 7	17 37	6 10	1 49	
T 23	3 16	14 24	4 8	0 12	1 33	13 26	0 8	4 42	0 33	22 46	0 9	4 54	2 49	19 32	0 13	11 14	0 47	23 35	1 23	0 18	0 6	17 37	6 9	1 49	
W24	3 40	16 41	4 48	0s34	1 29	13 8	0 4	4 58	0 33	22 47	0 9	4 52	2 49	19 32	0 13	11 13	0 47	23 35	1 23	0 17	0 4	17 36	6 8	1 48	
T 25	4 3	17 59	5 11	1 20	1 24	12 50	0n 1	5 14	0 32	22 48	0 9	4 51	2 49	19 31	0 13	11 13	0 47	23 35	1 23	0 17	0 3	17 36	6 6	1 48	
F 26	4 27	18 10	5 16	2 6	1 19	12 31	0 5	5 30	0 32	22 49	0 9	4 49	2 49	19 31	0 13	11 12	0 47	23 35	1 23	0 17	0 2	17 35	6 5	1 48	
S 27	4 50	17 13	5 1	2 52	1 13	12 12	0 10	5 46	0 31	22 50	0 9	4 47	2 49	19 31	0 13	11 11	0 47	23 35	1 23	0 17	0 1	17 34	6 4	1 48	
S 28	5 13	15 13	4 28	3 38	1 8	11 52	0 14	6 2	0 31	22 51	0 8	4 45	2 49	19 30	0 13	11 11	0 47	23 35	1 23	0 17	0n 1	17 34	6 3	1 48	
M29	5 36	12 17	3 39	4 23	1 2	11 53	0 18	6 18	0 30	22 52	0 8	4 43	2 49	19 30	0 13	11 10	0 47	23 35	1 23	0 18	0 2	17 33	6 2	1 48	
T 30	5s59	8s38	2n36	5s 8	0n56	11n12	0n23	6s34	0n30	22s53	0n 8	4n42	2s49	19n30	0s13	11n 9	0n47	23n35	1n23	0s18	0n 3	17n33	6n 1	1n48	

ASTRODIENST EPHEMERIS for the year 1438
geocentric

OCTOBER 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	1 12 10	16♌ 9'26	15♋ 11	16♌ 52	2♊ 59	18♌ 31	18♌ 47	18♌ 29	27♌ 40	3♊ 3	18♌ 40	0♌ 46	29♊ 49	17♌ 6	10♌ 55	W 1
T 2	1 16 7	17° 9'03	29° 0	18° 33	4° 7	19° 12	18° 56	18° 24	27♌ 38	3° 5	18° 40	0° 47	29° 45	17° 13	10° 53	T 2
F 3	1 20 4	18° 8'41	12° 36	20° 13	5° 15	19° 52	19° 6	18° 19	27° 36	3° 7	18° 41	0° 46	29° 42	17° 20	10° 50	F 3
S 4	1 24 0	19° 8'21	25° 58	21° 52	6° 24	20° 33	19° 16	18° 14	27° 34	3° 8	18° 41	0° 45	29° 39	17° 26	10° 47	S 4
S 5	1 27 57	20° 8'03	9♌ 3	23° 31	7° 33	21° 13	19° 26	18° 9	27° 32	3° 10	18° 41	0° 43	29° 36	17° 33	10° 44	S 5
M 6	1 31 53	21° 7'48	21° 51	25° 9	8° 42	21° 54	19° 36	18° 5	27° 31	3° 11	18° 41	0° 40	29° 33	17° 40	10° 41	M 6
T 7	1 35 50	22° 7'35	4♌ 22	26° 47	9° 51	22° 34	19° 46	18° 0	27° 29	3° 13	18° 41	0° 36	29° 30	17° 46	10° 39	T 7
W 8	1 39 46	23° 7'24	16° 39	28° 24	11° 1	23° 15	19° 56	17° 55	27° 27	3° 15	18° 41	0° 33	29° 26	17° 53	10° 36	W 8
T 9	1 43 43	24° 7'15	28° 44	0♌ 0	12° 10	23° 56	20° 6	17° 50	27° 25	3° 16	18° 41	0° 30	29° 23	18° 0	10° 33	T 9
F 10	1 47 39	25° 7'08	10♌ 41	1° 36	13° 20	24° 37	20° 17	17° 46	27° 23	3° 18	18° 41	0° 28	29° 20	18° 7	10° 30	F 10
S 11	1 51 36	26° 7'04	22° 33	3° 12	14° 30	25° 17	20° 27	17° 41	27° 21	3° 19	18° 41	0° 27	29° 17	18° 13	10° 28	S 11
S 12	1 55 33	27° 7'02	4♌ 26	4° 47	15° 40	25° 58	20° 38	17° 36	27° 19	3° 21	18° 41	0° 27	29° 14	18° 20	10° 25	S 12
M13	1 59 29	28° 7'01	16° 24	6° 21	16° 50	26° 39	20° 49	17° 31	27° 17	3° 22	18° 41	0° 28	29° 10	18° 27	10° 22	M13
T 14	2 3 26	29° 7'04	28° 33	7° 55	18° 1	27° 20	21° 0	17° 27	27° 15	3° 24	18° 41	0° 30	29° 7	18° 33	10° 20	T 14
W15	2 7 22	0♌ 7'08	10♌ 56	9° 29	19° 11	28° 1	21° 11	17° 22	27° 12	3° 25	18° 41	0° 32	29° 4	18° 40	10° 17	W15
T 16	2 11 19	1° 7'14	23° 37	11° 2	20° 22	28° 42	21° 22	17° 17	27° 10	3° 27	18° 41	0° 33	29° 1	18° 47	10° 14	T 16
F 17	2 15 15	2° 7'22	6♌ 39	12° 34	21° 33	29° 23	21° 33	17° 13	27° 8	3° 28	18° 41	0° 33	28° 58	18° 54	10° 12	F 17
S 18	2 19 12	3° 7'33	20° 3	14° 7	22° 43	0♌ 4	21° 44	17° 8	27° 6	3° 29	18° 41	0° 31	28° 55	19° 0	10° 9	S 18
S 19	2 23 8	4° 7'45	3♌ 49	15° 39	23° 54	0° 46	21° 55	17° 4	27° 3	3° 30	18° 41	0° 28	28° 51	19° 7	10° 7	S 19
M20	2 27 5	5° 7'59	17° 10	17° 10	25° 6	1° 27	22° 7	16° 59	27° 1	3° 32	18° 40	0° 24	28° 48	19° 14	10° 4	M20
T 21	2 31 1	6° 8'15	2♌ 10	18° 41	26° 17	2° 8	22° 18	16° 55	26° 59	3° 33	18° 40	0° 18	28° 45	19° 20	10° 2	T 21
W22	2 34 58	7° 8'33	16° 35	20° 12	27° 28	2° 49	22° 30	16° 51	26° 57	3° 34	18° 40	0° 12	28° 42	19° 27	9° 59	W22
T 23	2 38 55	8° 8'52	1♌ 3	21° 42	28° 40	3° 31	22° 41	16° 46	26° 54	3° 35	18° 40	0° 7	28° 39	19° 34	9° 57	T 23
F 24	2 42 51	9° 9'13	15° 28	23° 12	29° 51	4° 12	22° 53	16° 42	26° 52	3° 37	18° 39	0° 3	28° 36	19° 41	9° 54	F 24
S 25	2 46 48	10° 9'35	29° 46	24° 41	1♌ 3	4° 54	23° 5	16° 38	26° 50	3° 38	18° 39	0° 1	28° 32	19° 47	9° 52	S 25
S 26	2 50 44	11° 9'59	13♌ 54	26° 10	2° 15	5° 35	23° 17	16° 34	26° 47	3° 39	18° 39	0° 1	28° 29	19° 54	9° 50	S 26
M27	2 54 41	12° 10'24	27° 50	27° 38	3° 27	6° 17	23° 29	16° 30	26° 45	3° 40	18° 38	0° 1	28° 26	20° 1	9° 47	M27
T 28	2 58 37	13° 10'50	11♌ 35	29° 6	4° 39	6° 58	23° 41	16° 26	26° 42	3° 41	18° 38	0° 3	28° 23	20° 7	9° 45	T 28
W29	3 2 34	14° 11'17	25° 9	0♌ 34	5° 51	7° 40	23° 53	16° 22	26° 40	3° 42	18° 37	0° 4	28° 20	20° 14	9° 43	W29
T 30	3 6 30	15° 11'46	8♌ 31	2° 1	7° 3	8° 21	24° 5	16° 18	26° 37	3° 43	18° 37	0° 4	28° 16	20° 21	9° 41	T 30
F 31	3 10 27	16° 12'17	21♌ 42	3♌ 27	8♌ 15	9♌ 3	24° 17	16° 14	26° 35	3♌ 44	18° 36	0♌ 1	28° 13	20° 28	9° 38	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	6s22	4s33	1n25	5s53	0n50	10n51	0n27	6s50	0n29	22s54	0n 8	4n40	2s49	19n29	0s13	11n 9
T 2	6 45	0 15	0 10	6 37	0 43	10 30	0 31	7 6	0 29	22 55	0 8	4 38	2 49	19 29	0 13	11 8
F 3	7 8	4n 0	1s 5	7 21	0 37	10 9	0 35	7 21	0 28	22 56	0 8	4 36	2 49	19 28	0 13	11 8
S 4	7 31	7 58	2 15	8 5	0 30	9 47	0 38	7 37	0 28	22 57	0 8	4 34	2 49	19 28	0 13	11 7
S 5	7 54	11 28	3 16	8 47	0 24	9 25	0 42	7 53	0 27	22 58	0 8	4 32	2 49	19 28	0 13	11 6
M 6	8 16	14 20	4 5	9 30	0 17	9 2	0 46	8 9	0 27	22 59	0 7	4 31	2 49	19 27	0 13	11 6
T 7	8 38	16 27	4 42	10 12	0 10	8 40	0 49	8 24	0 26	22 59	0 7	4 29	2 49	19 27	0 13	11 5
W 8	9 1	17 47	5 5	10 53	0 4	8 16	0 53	8 40	0 26	23 0	0 7	4 27	2 49	19 26	0 13	11 5
T 9	9 23	18 16	5 14	11 33	0s 3	7 53	0 56	8 55	0 25	23 1	0 7	4 25	2 49	19 26	0 13	11 4
F 10	9 45	17 56	5 9	12 13	0 10	7 29	1 0	9 11	0 24	23 2	0 7	4 23	2 49	19 25	0 13	11 4
S 11	10 7	16 50	4 51	12 52	0 16	7 5	1 3	9 26	0 24	23 3	0 7	4 22	2 49	19 25	0 13	11 3
S 12	10 29	14 59	4 21	13 31	0 23	6 41	1 6	9 42	0 23	23 4	0 7	4 20	2 49	19 25	0 13	11 3
M13	10 50	12 29	3 39	14 9	0 30	6 16	1 9	9 57	0 23	23 5	0 7	4 18	2 48	19 24	0 13	11 2
T 14	11 12	9 25	2 46	14 46	0 37	5 51	1 12	10 12	0 22	23 6	0 7	4 17	2 48	19 24	0 13	11 2
W15	11 33	5 52	1 45	15 22	0 43	5 26	1 15	10 28	0 22	23 7	0 6	4 15	2 48	19 23	0 13	11 1
T 16	11 54	1 58	0 38	15 58	0 50	5 1	1 18	10 43	0 21	23 7	0 6	4 13	2 48	19 23	0 13	11 1
F 17	12 15	2s 8	0n33	16 33	0 56	4 36	1 20	10 58	0 21	23 8	0 6	4 11	2 48	19 22	0 13	11 0
S 18	12 35	6 15	1 45	17 7	1 2	4 10	1 23	11 13	0 20	23 9	0 6	4 10	2 48	19 22	0 13	11 0
S 19	12 56	10 8	2 52	17 40	1 9	3 44	1 25	11 28	0 20	23 10	0 6	4 8	2 48	19 21	0 13	10 59
M20	13 16	13 32	3 49	18 12	1 15	3 18	1 28	11 43	0 19	23 11	0 6	4 7	2 48	19 21	0 13	10 59
T 21	13 36	16 11	4 34	18 44	1 21	2 52	1 30	11 58	0 18	23 11	0 6	4 5	2 48	19 20	0 13	10 58
W22	13 56	17 50	5 2	19 14	1 27	2 25	1 32	12 12	0 18	23 12	0 6	4 3	2 48	19 19	0 13	10 58
T 23	14 16	18 20	5 10	19 44	1 32	1 59	1 34	12 27	0 17	23 13	0 5	4 2	2 47	19 19	0 13	10 58
F 24	14 35	17 39	4 59	20 12	1 38	1 32	1 36	12 42	0 17	23 14	0 5	4 0	2 47	19 18	0 13	10 57
S 25	14 54	15 52	4 30	20 40	1 43	1 5	1 38	12 56	0 16	23 14	0 5	3 59	2 47	19 18	0 13	10 57
S 26	15 13	13 8	3 44	21 6	1 48	0 38	1 40	13 11	0 16	23 15	0 5	3 57	2 47	19 17	0 13	10 57
M27	15 32	9 40	2 46	21 32	1 53	0 11	1 42	13 25	0 15	23 16	0 5	3 56	2 47	19 17	0 13	10 56
T 28	15 50	5 43	1 38	21 56	1 58	0s16	1 43	13 39	0 14	23 17	0 5	3 55	2 47	19 16	0 13	10 56
W29	16 9	1 32	0 27	22 19	2 2	0 44	1 45	13 53	0 14	23 17	0 5	3 53	2 47	19 16	0 13	10 55
T 30	16 26	2n41	0s46	22 42	2 7	1 11	1 46	14 7	0 13	23 18	0 5	3 52	2 46	19 15	0 13	10 55
F 31	16s44	6n43	1s54	23s 3	2s11	1s38	1n47	14s21	0n13	23s19	0n 5	3n51	2s46	19n15	0s13	10n55

Julian Day Number = 2246560.5, Delta T = 06m49s
Ecliptic obliquity = 23°30'35", Nutation = - 0°00'01", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 16°54'37", Lahiri = 16°01'38" Julian Calendar 1 Oct. 1438 == Greg. Calendar 10 Oct. 1438

ASTRODIENST EPHEMERIS for the year 1438

geocentric

NOVEMBER 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	3 14 24	17 ¹¹ 12'48	4 ⁸ 41	4 ⁷ 53	9 ²⁸	9 ¹⁴ 45	24 ²⁷ 30	16 ¹⁰ R10	26 ³²	3 ¹⁷ 45	18 ³⁶ R36	29 ⁵⁷	28 ¹⁰	20 ³⁴	9 ³⁶	S 1
S 2	3 18 20	18 ¹³ 22	17 ²⁹	6 ¹⁸	10 ⁴⁰	10 ²⁷	24 ⁴²	16 ⁶	26 ³⁰	3 ⁴⁶	18 ³⁵	29 ⁵⁰	28 ⁷	20 ⁴¹	9 ³⁴	S 2
M 3	3 22 17	19 ¹³ 57	0 ¹¹ 5	7 ⁴³	11 ⁵³	11 ⁸	24 ⁵⁴	16 ³	26 ²⁷	3 ⁴⁶	18 ³⁵	29 ⁴¹	28 ⁴	20 ⁴⁸	9 ³²	M 3
T 4	3 26 13	20 ¹⁴ 33	12 ²⁸	9 ⁶	13 ⁵	11 ⁵⁰	25 ⁷	15 ⁵⁹	26 ²⁵	3 ⁴⁷	18 ³⁴	29 ³²	28 ¹	20 ⁵⁴	9 ³⁰	T 4
W 5	3 30 10	21 ¹⁵ 11	24 ⁴¹	10 ²⁹	14 ¹⁸	12 ³²	25 ¹⁹	15 ⁵⁶	26 ²²	3 ⁴⁸	18 ³⁴	29 ²²	27 ⁵⁷	21 ¹	9 ²⁸	W 5
T 6	3 34 6	22 ¹⁵ 51	6 ²⁴ 3	11 ⁵⁰	15 ³¹	13 ¹⁴	25 ³²	15 ⁵²	26 ²⁰	3 ⁴⁹	18 ³³	29 ¹²	27 ⁵⁴	21 ⁸	9 ²⁶	T 6
F 7	3 38 3	23 ¹⁶ 32	18 ³⁸	13 ¹⁰	16 ⁴⁴	13 ⁵⁶	25 ⁴⁵	15 ⁴⁹	26 ¹⁷	3 ⁵⁰	18 ³²	29 ⁵	27 ⁵¹	21 ¹⁵	9 ²⁴	F 7
S 8	3 41 59	24 ¹⁷ 15	0 ²⁹	14 ²⁹	17 ⁵⁷	14 ³⁸	25 ⁵⁸	15 ⁴⁶	26 ¹⁵	3 ⁵⁰	18 ³²	28 ⁵⁹	27 ⁴⁸	21 ²¹	9 ²³	S 8
S 9	3 45 56	25 ¹⁷ 59	12 ¹⁹	15 ⁴⁷	19 ¹⁰	15 ²⁰	26 ¹⁰	15 ⁴³	26 ¹²	3 ⁵¹	18 ³¹	28 ⁵⁶	27 ⁴⁵	21 ²⁸	9 ²¹	S 9
M10	3 49 53	26 ¹⁸ 45	24 ¹⁵	17 ²	20 ²³	16 ³	26 ²³	15 ⁴⁰	26 ¹⁰	3 ⁵²	18 ³⁰	28 ⁵⁵	27 ⁴²	21 ³⁵	9 ¹⁹	M10
T 11	3 53 49	27 ¹⁹ 33	6 ¹⁷ 20	18 ¹⁵	21 ³⁶	16 ⁴⁵	26 ³⁶	15 ³⁷	26 ⁷	3 ⁵²	18 ³⁰	28 ⁵⁵	27 ³⁸	21 ⁴¹	9 ¹⁷	T 11
W12	3 57 46	28 ²⁰ 22	18 ⁴⁰	19 ²⁶	22 ⁴⁹	17 ²⁷	26 ⁴⁹	15 ³⁴	26 ⁵	3 ⁵³	18 ²⁹	28 ⁵⁶	27 ³⁵	21 ⁴⁸	9 ¹⁶	W12
T 13	4 1 42	29 ²¹ 13	1 ²¹	20 ³⁵	24 ³	18 ⁹	27 ²	15 ³¹	26 ²	3 ⁵³	18 ²⁸	28 ⁵⁶	27 ³²	21 ⁵⁵	9 ¹⁴	T 13
F 14	4 5 39	0 ²² 05	14 ²⁵	21 ⁴⁰	25 ¹⁶	18 ⁵²	27 ¹⁵	15 ²⁸	26 ⁰	3 ⁵⁴	18 ²⁷	28 ⁵⁵	27 ²⁹	22 ¹	9 ¹³	F 14
S 15	4 9 35	1 ²² 58	27 ⁵⁷	22 ⁴¹	26 ²⁹	19 ³⁴	27 ²⁸	15 ²⁶	25 ⁵⁷	3 ⁵⁴	18 ²⁷	28 ⁵²	27 ²⁶	22 ⁸	9 ¹¹	S 15
S 16	4 13 32	2 ²³ 53	11 ¹⁶ 56	23 ³⁹	27 ⁴³	20 ¹⁶	27 ⁴²	15 ²³	25 ⁵⁵	3 ⁵⁵	18 ²⁶	28 ⁴⁶	27 ²²	22 ¹⁵	9 ¹⁰	S 16
M17	4 17 28	3 ²⁴ 49	26 ¹⁹	24 ³¹	28 ⁵⁷	20 ⁵⁹	27 ⁵⁵	15 ²¹	25 ⁵²	3 ⁵⁵	18 ²⁵	28 ³⁷	27 ¹⁹	22 ²²	9 ⁸	M17
T 18	4 21 25	4 ²⁵ 46	11 ²⁷ 2	25 ¹⁹	0 ¹⁰ 10	21 ⁴¹	28 ⁸	15 ¹⁹	25 ⁵⁰	3 ⁵⁵	18 ²⁴	28 ²⁷	27 ¹⁶	22 ²⁸	9 ⁷	T 18
W19	4 25 22	5 ²⁶ 44	25 ⁵⁶	26 ⁰	1 ²⁴	22 ²⁴	28 ²¹	15 ¹⁶	25 ⁴⁷	3 ⁵⁶	18 ²³	28 ¹⁶	27 ¹³	22 ³⁵	9 ⁶	W19
T 20	4 29 18	6 ²⁷ 44	10 ³⁵ 52	26 ³⁵	2 ³⁸	23 ⁷	28 ³⁵	15 ¹⁴	25 ⁴⁵	3 ⁵⁶	18 ²²	28 ⁶	27 ¹⁰	22 ⁴²	9 ⁴	T 20
F 21	4 33 15	7 ²⁸ 44	25 ⁴¹	27 ²	3 ⁵¹	23 ⁴⁹	28 ⁴⁸	15 ¹²	25 ⁴²	3 ⁵⁶	18 ²¹	27 ⁵⁸	27 ⁷	22 ⁴⁸	9 ³	F 21
S 22	4 37 11	8 ²⁹ 44	10 ²² 16	27 ²⁰	5 ⁵	24 ³²	29 ²	15 ¹⁰	25 ⁴⁰	3 ⁵⁶	18 ²⁰	27 ⁵²	27 ³	22 ⁵⁵	9 ²	S 22
S 23	4 41 8	9 ³⁰ 45	24 ³³	27 ²⁹	6 ¹⁹	25 ¹⁵	29 ¹⁵	15 ⁸	25 ³⁷	3 ⁵⁶	18 ¹⁹	27 ⁴⁹	27 ⁰	23 ²	9 ¹	S 23
M24	4 45 4	10 ³¹ 47	8 ³⁰	27 ²⁸	7 ³³	25 ⁵⁷	29 ²⁸	15 ⁷	25 ³⁵	3 ⁵⁷	18 ¹⁸	27 ⁴⁹	26 ⁵⁷	23 ⁹	9 ⁰	M24
T 25	4 49 1	11 ³² 49	22 ⁷	27 ¹⁵	8 ⁴⁷	26 ⁴⁰	29 ⁴²	15 ⁵	25 ³³	3 ⁵⁷	18 ¹⁷	27 ⁴⁹	26 ⁵⁴	23 ¹⁵	8 ⁵⁹	T 25
W26	4 52 57	12 ³³ 52	5 ¹⁷ 26	26 ⁵²	10 ¹	27 ²³	29 ⁵⁶	15 ⁴	25 ³⁰	3 ⁵⁷	18 ¹⁶	27 ⁴⁹	26 ⁵¹	23 ²²	8 ⁵⁸	W26
T 27	4 56 54	13 ³⁴ 55	18 ³⁰	26 ¹⁷	11 ¹⁵	28 ⁶	0 ³ 9	15 ²	25 ²⁸	3 ⁵⁷	18 ¹⁵	27 ⁴⁷	26 ⁴⁷	23 ²⁹	8 ⁵⁷	T 27
F 28	5 0 51	14 ³⁵ 59	1 ²⁰	25 ³⁰	12 ²⁹	28 ⁴⁹	0 ²³	15 ¹	25 ²⁵	3 ⁵⁷	18 ¹⁴	27 ⁴³	26 ⁴⁴	23 ³⁵	8 ⁵⁶	F 28
S 29	5 4 47	15 ³⁷ 03	14 ⁰	24 ³³	13 ⁴³	29 ³²	0 ³⁶	15 ⁰	25 ²³	3 ⁵⁷	18 ¹³	27 ³⁶	26 ⁴¹	23 ⁴²	8 ⁵⁶	S 29
S 30	5 8 44	16 ²⁸ 08	26 ²⁹	23 ²⁷	14 ¹⁶ 57	0 ²¹ 15	0 ³⁵ 50	14 ¹⁷ 59	25 ²¹	3 ⁵⁷	18 ¹²	27 ²⁷	26 ³⁸	23 ⁴⁹	8 ⁵⁵	S 30

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	17s 1	10n22	2s56	23s22	2s14	2s 6	1n49	14s35	0n12	23s19	0n 4	3n49	2s46	19n14	0s13	10n55	0n48	23n39	1n27	0n 1	0n44	17n13	5n25	1n44
S 2	17 18	13 28	3 47	23 41	2 18	2 33	1 50	14 49	0 12	23 20	0 4	3 48	2 46	19 13	0 13	10 54	0 48	23 39	1 27	0 4	0 45	17 13	5 24	1 44
M 3	17 35	15 53	4 26	23 58	2 21	3 1	1 51	15 2	0 11	23 20	0 4	3 47	2 46	19 13	0 13	10 54	0 48	23 39	1 27	0 7	0 46	17 12	5 23	1 44
T 4	17 51	17 31	4 53	24 14	2 23	3 28	1 52	15 16	0 10	23 21	0 4	3 46	2 46	19 12	0 13	10 54	0 48	23 39	1 27	0 11	0 48	17 11	5 22	1 44
W 5	18 8	18 20	5 5	24 29	2 25	3 55	1 53	15 29	0 10	23 22	0 4	3 45	2 45	19 12	0 13	10 53	0 48	23 39	1 27	0 15	0 49	17 11	5 21	1 44
T 6	18 23	18 18	5 3	24 42	2 27	4 23	1 53	15 43	0 9	23 22	0 4	3 43	2 45	19 11	0 13	10 53	0 48	23 40	1 27	0 19	0 50	17 10	5 20	1 44
F 7	18 39	17 27	4 48	24 54	2 28	4 50	1 54	15 56	0 9	23 23	0 4	3 42	2 45	19 10	0 13	10 53	0 48	23 40	1 27	0 22	0 51	17 9	5 19	1 43
S 8	18 54	15 51	4 21	25 5	2 29	5 18	1 55	16 9	0 8	23 23	0 4	3 41	2 45	19 10	0 13	10 53	0 48	23 40	1 27	0 24	0 53	17 9	5 18	1 43
S 9	19 9	13 35	3 43	25 14	2 30	5 45	1 55	16 22	0 7	23 24	0 4	3 40	2 45	19 9	0 13	10 53	0 48	23 40	1 27	0 26	0 54	17 8	5 18	1 43
M10	19 23	10 44	2 55	25 21	2 29	6 12	1 55	16 35	0 7	23 24	0 4	3 39	2 44	19 9	0 13	10 52	0 48	23 40	1 28	0 26	0 55	17 7	5 17	1 43
T 11	19 37	7 23	1 58	25 27	2 28	6 39	1 56	16 47	0 6	23 25	0 3	3 38	2 44	19 8	0 13	10 52	0 48	23 40	1 28	0 26	0 56	17 7	5 16	1 43
W12	19 51	3 39	0 55	25 31	2 27	7 7	1 56	17 0	0 6	23 25	0 3	3 37	2 44	19 8	0 13	10 52	0 48	23 41	1 28	0 26	0 58	17 6	5 15	1 43
T 13	20 4	0s20	0n13	25 34	2 24	7 33	1 56	17 12	0 5	23 25	0 3	3 37	2 44	19 7	0 13	10 52	0 48	23 41	1 28	0 25	0 59	17 5	5 14	1 42
F 14	20 17	4 27	1 22	25 35	2 21	8 0	1 56	17 25	0 4	23 26	0 3	3 36	2 43	19 6	0 13	10 52	0 49	23 41	1 28	0 26	1 0	17 5	5 14	1 42
S 15	20 30	8 28	2 28	25 35	2 17	8 27	1 56	17 37	0 4	23 26	0 3	3 35	2 43	19 6	0 13	10 52	0 49	23 41	1 28	0 27	1 2	17 4	5 13	1 42
S 16	20 42	12 10	3 28	25 33	2 12	8 54	1 56	17 49	0 3	23 26	0 3	3 34	2 43	19 5	0 13	10 52	0 49	23 41	1 28	0 30	1 3	17 3	5 12	1 42
M17	20 54	15 14	4 16	25 30	2 6	9 20	1 55	18 1	0 3	23 27	0 3	3 33	2 43	19 5	0 13	10 51	0 49	23 42	1 28	0 33	1 4	17 3	5 11	1 42
T 18	21 5	17 24	4 49	25 24	1 59	9 46	1 55	18 13	0 2	23 27	0 3	3 33	2 42	19 4	0 13	10 51	0 49	23 42	1 28	0 37	1 5	17 2	5 11	1 42
W19	21 16	18 25	5 2	25 17	1 51	10 12	1 55	18 24	0 1	23 27	0 3	3 32	2 42	19 3	0 13	10 51	0 49	23 42	1 28	0 41	1 7	17 1	5 10	1 42
T 20	21 27	18 10	4 55	25 9	1 41	10 38	1 54	18 36	0 1	23 28	0 3	3 32	2 42	19 3	0 13	10 51	0 49	23 42	1 28	0 45	1 8	17 1	5 10	1 41
F 21	21 37	16 41	4 28	24 59	1 30	11 4	1 53	18 47	0 0	23 28	0 2	3 31	2 42	19 2	0 13	10 51	0 49	23 43	1 29	0 49	1 9	17 0	5 9	1 41
S 22	21 47	14 7	3 44	24 47	1 18	11 29	1 53	18 58	0s 0	23 28	0 2	3 31	2 41	19 2	0 12	10 51	0 49	23 43	1 29	0 51	1 10	16 59	5 8	1 41
S 23	21 57	10 45	2 47	24 34	1 5	11 54	1 52	19 9	0 1	23 28	0 2	3 30	2 41	19 1	0 12	10 51	0 49	23 43	1 29	0 52	1 12	16 58	5 8	1 41
M24	22 6	6 51	1 41	24 19	0 50	12 19	1 51	19 20	0 2	23 28	0 2	3 30	2 41	19 1	0 12	10 51	0 49	23 43	1 29	0 52	1 13	16 58	5 7	1 41
T 25	22 14	2 41	0 30	24 2	0 33	12 44	1 50	19 30	0 2	23 29	0 2	3 29	2 41	19 0	0 12	10 51	0 49	23 43	1 29	0 52	1 14	16 57	5 7	1 41
W26	22 22	1n33	0s40	23 44	0 16	13 8	1 49	19 41	0 3	23 29	0 2	3 29	2 40	18 59	0 12	10 51	0 49	23 44	1 29	0 52	1 15	16 56	5 6	1 40
T 27	22 30	5 37	1 47	23 25	0n 3	13 32	1 48	19 51	0 4	23 29	0 2	3 29	2 40	18 59	0 12	10 51	0 49	23 44	1 29	0 53	1 17	16 56	5 6	1 40
F 28	22 37	9 21	2 47	23 4	0 22	13 56	1 47	20 1	0 4	23 29	0 2	3 28	2 40	18 58	0 12	10 51	0 49	23 44	1 29	0 55	1 18	16 55	5 5	1 40
S 29	22 44	12 37	3 38	22 41	0 42	14 19	1 46	20 11	0 5	23 29	0 2	3 28	2 40	18 58	0 12	10 51	0 49	23 44	1 29	0 58	1 19	16 54	5 5	1 40
S 30	22s50	15n15	4s18	22s18	1n 3	14s42	1n44	20s21	0s 6	23s29	0n 2	3n28	2s39	18n57	0s12	10n51	0n49	23n45	1n29	1n 2	1n21	16n53	5n 4	1n40

ASTRODIENST EPHEMERIS for the year 1438
geocentric

DECEMBER 1438 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	5 12 40	17°39'13	8°11'50	22°R12	16°M12	0°2'58	1°3'4	14°R58	25°R18	3°R57	18°R11	27°R13	26°M35	23°S56	8°R54	M 1
T 2	5 16 37	18°40'19	21° 2	20°2'53	17°26	1°41	1°18	14°Y57	25°B16	3°M57	18°S10	26°M58	26°32	24° 2	8°Y54	T 2
W 3	5 20 33	19°41'26	3°S 7	19°30	18°40	2°24	1°31	14°56	25°14	3°56	18° 9	26°43	26°28	24° 9	8°53	W 3
T 4	5 24 30	20°42'33	15° 4	18° 8	19°54	3° 8	1°45	14°56	25°12	3°56	18° 8	26°29	26°25	24°16	8°53	T 4
F 5	5 28 27	21°43'40	26°57	16°48	21° 9	3°51	1°59	14°55	25°10	3°56	18° 7	26°17	26°22	24°22	8°52	F 5
S 6	5 32 23	22°44'49	8°Q46	15°33	22°23	4°34	2°13	14°55	25° 7	3°56	18° 5	26° 8	26°19	24°29	8°52	S 6
S 7	5 36 20	23°45'57	20°36	14°26	23°37	5°17	2°27	14°55	25° 5	3°55	18° 4	26° 2	26°16	24°36	8°52	S 7
M 8	5 40 16	24°47'07	2°M29	13°28	24°52	6° 1	2°40	14°54	25° 3	3°55	18° 3	25°58	26°13	24°42	8°52	M 8
T 9	5 44 13	25°48'17	14°31	12°40	26° 6	6°44	2°54	14°D54	25° 1	3°55	18° 2	25°57	26° 9	24°49	8°51	T 9
W10	5 48 9	26°49'27	26°47	12° 2	27°21	7°28	3° 8	14°54	24°59	3°54	18° 1	25°56	26° 6	24°56	8°51	W10
T 11	5 52 6	27°50'38	9°Q22	11°35	28°35	8°11	3°22	14°55	24°57	3°54	18° 0	25°56	26° 3	25° 3	8°D51	T 11
F 12	5 56 2	28°51'49	22°21	11°18	29°50	8°55	3°36	14°55	24°55	3°53	17°58	25°55	26° 0	25° 9	8°51	F 12
S 13	5 59 59	29°53'01	5°M48	11°D12	1°2'4	9°39	3°50	14°55	24°53	3°53	17°57	25°51	25°57	25°16	8°51	S 13
S 14	6 3 55	0°S4'14	19°46	11°15	2°19	10°22	4° 4	14°56	24°51	3°52	17°56	25°44	25°53	25°23	8°51	S 14
M15	6 7 52	1°55'26	4°2'14	11°26	3°34	11° 6	4°18	14°56	24°49	3°52	17°55	25°35	25°50	25°29	8°52	M15
T 16	6 11 49	2°56'39	19° 6	11°46	4°48	11°50	4°32	14°57	24°47	3°51	17°53	25°24	25°47	25°36	8°52	T 16
W17	6 15 45	3°57'52	4°S16	12°13	6° 3	12°33	4°46	14°58	24°46	3°50	17°52	25°12	25°44	25°43	8°52	W17
T 18	6 19 42	4°59'05	19°32	12°46	7°17	13°17	5° 0	14°59	24°44	3°50	17°51	25° 1	25°41	25°50	8°53	T 18
F 19	6 23 38	6° 0'18	4°Q43	13°25	8°32	14° 1	5°14	15° 0	24°42	3°49	17°50	24°52	25°38	25°56	8°53	F 19
S 20	6 27 35	7° 1'31	19°40	14°10	9°47	14°45	5°27	15° 1	24°40	3°48	17°48	24°45	25°34	26° 3	8°53	S 20
S 21	6 31 31	8° 2'43	4°K14	14°59	11° 2	15°29	5°41	15° 2	24°39	3°48	17°47	24°41	25°31	26°10	8°54	S 21
M22	6 35 28	9° 3'54	18°23	15°52	12°16	16°13	5°55	15° 4	24°37	3°47	17°46	24°40	25°28	26°16	8°55	M22
T 23	6 39 25	10° 5'05	2°Y 7	16°50	13°31	16°57	6° 9	15° 5	24°36	3°46	17°44	24°D40	25°25	26°23	8°55	T 23
W24	6 43 21	11° 6'16	15°26	17°50	14°46	17°41	6°23	15° 7	24°34	3°45	17°43	24°R40	25°22	26°30	8°56	W24
T 25	6 47 18	12° 7'26	28°24	18°54	16° 0	18°25	6°37	15° 9	24°33	3°44	17°42	24°39	25°19	26°36	8°57	T 25
F 26	6 51 14	13° 8'35	11°B 5	20° 0	17°15	19° 9	6°51	15°10	24°31	3°43	17°40	24°35	25°15	26°43	8°58	F 26
S 27	6 55 11	14° 9'44	23°32	21° 8	18°30	19°53	7° 5	15°12	24°30	3°42	17°39	24°29	25°12	26°50	8°58	S 27
S 28	6 59 7	15°10'52	5°II48	22°19	19°45	20°38	7°19	15°14	24°28	3°41	17°38	24°20	25° 9	26°57	8°59	S 28
M29	7 3 4	16°11'59	17°56	23°31	20°59	21°22	7°33	15°17	24°27	3°40	17°37	24° 9	25° 6	27° 3	9° 0	M29
T 30	7 7 0	17°13'06	29°57	24°46	22°14	22° 6	7°47	15°19	24°26	3°39	17°35	23°56	25° 3	27°10	9° 1	T 30
W31	7 10 57	18°14'13	11°S54	26°2'2	23°2'29	22°2'51	8°3'0	15°Y21	24°B25	3°M38	17°S34	23°M43	24°M59	27°S17	9°Y 3	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	22s56	17n 9	4s45	21s54	1n22	15s 5	1n43	20s31	0s 6	23s29	0n 1	3n28	2s39	18n57	0s12	10n51
T 2	23 1	18 15	4 58	21 30	1 42	15 27	1 42	20 40	0 7	23 29	0 1	3 28	2 39	18 56	0 12	10 51
W 3	23 6	18 31	4 58	21 7	1 59	15 49	1 40	20 49	0 7	23 29	0 1	3 28	2 39	18 56	0 12	10 51
T 4	23 11	17 57	4 44	20 44	2 15	16 11	1 39	20 59	0 8	23 29	0 1	3 28	2 38	18 55	0 12	10 52
F 5	23 15	16 36	4 19	20 23	2 29	16 32	1 37	21 7	0 9	23 29	0 1	3 28	2 38	18 55	0 12	10 52
S 6	23 19	14 33	3 42	20 3	2 41	16 53	1 35	21 16	0 9	23 29	0 1	3 28	2 38	18 54	0 12	10 52
S 7	23 22	11 54	2 55	19 47	2 50	17 13	1 34	21 25	0 10	23 28	0 1	3 28	2 37	18 54	0 12	10 52
M 8	23 24	8 45	2 1	19 33	2 57	17 33	1 32	21 33	0 11	23 28	0 1	3 28	2 37	18 53	0 12	10 52
T 9	23 27	5 11	1 0	19 23	3 2	17 53	1 30	21 41	0 11	23 28	0 1	3 29	2 37	18 53	0 12	10 52
W10	23 28	1 21	0n 4	19 15	3 4	18 12	1 28	21 49	0 12	23 28	0 1	3 29	2 37	18 52	0 12	10 52
T 11	23 30	2s39	1 10	19 11	3 5	18 30	1 26	21 57	0 13	23 28	0 0	3 29	2 36	18 52	0 12	10 53
F 12	23 30	6 38	2 15	19 10	3 3	18 48	1 24	22 4	0 13	23 27	0 0	3 30	2 36	18 51	0 12	10 53
S 13	23 31	10 27	3 14	19 12	3 1	19 6	1 22	22 11	0 14	23 27	0 0	3 30	2 36	18 51	0 12	10 53
S 14	23 30	13 49	4 4	19 17	2 56	19 23	1 20	22 18	0 14	23 27	0 0	3 31	2 35	18 50	0 12	10 53
M15	23 30	16 28	4 40	19 23	2 51	19 39	1 18	22 25	0 15	23 26	0 0	3 31	2 35	18 50	0 12	10 54
T 16	23 29	18 6	4 59	19 32	2 45	19 55	1 15	22 32	0 16	23 26	0s 0	3 32	2 35	18 49	0 12	10 54
W17	23 27	18 30	4 57	19 42	2 39	20 11	1 13	22 38	0 16	23 26	0 0	3 32	2 35	18 49	0 12	10 54
T 18	23 25	17 34	4 34	19 54	2 31	20 26	1 11	22 45	0 17	23 25	0 0	3 33	2 34	18 49	0 12	10 54
F 19	23 22	15 24	3 52	20 6	2 23	20 40	1 9	22 51	0 18	23 25	0 0	3 34	2 34	18 48	0 12	10 55
S 20	23 19	12 13	2 54	20 20	2 15	20 53	1 6	22 56	0 18	23 24	0 0	3 34	2 34	18 48	0 12	10 55
S 21	23 16	8 20	1 46	20 34	2 7	21 7	1 4	23 2	0 19	23 24	0 1	3 35	2 33	18 47	0 12	10 55
M22	23 12	4 6	0 33	20 48	1 58	21 19	1 1	23 7	0 20	23 23	0 1	3 36	2 33	18 47	0 12	10 56
T 23	23 8	0n14	0s39	21 3	1 49	21 31	0 59	23 12	0 20	23 23	0 1	3 37	2 33	18 47	0 12	10 56
W24	23 3	4 26	1 48	21 17	1 40	21 42	0 56	23 17	0 21	23 22	0 1	3 38	2 33	18 46	0 12	10 56
T 25	22 57	8 19	2 49	21 32	1 31	21 53	0 54	23 22	0 22	23 22	0 1	3 38	2 32	18 46	0 12	10 57
F 26	22 52	11 43	3 40	21 46	1 22	22 3	0 51	23 26	0 22	23 21	0 1	3 39	2 32	18 46	0 12	10 57
S 27	22 45	14 31	4 20	22 0	1 13	22 12	0 49	23 30	0 23	23 20	0 1	3 40	2 32	18 45	0 12	10 57
S 28	22 39	16 38	4 46	22 13	1 4	22 21	0 46	23 34	0 24	23 20	0 1	3 41	2 31	18 45	0 12	10 58
M29	22 31	17 59	5 0	22 26	0 55	22 29	0 44	23 38	0 24	23 19	0 1	3 43	2 31	18 45	0 12	10 58
T 30	22 24	18 30	5 0	22 38	0 46	22 36	0 41	23 41	0 25	23 18	0 1	3 44	2 31	18 44	0 12	10 58
W31	22s16	18n13	4s47	22s49	0n38	22s43	0n38	23s45	0s26	23s18	0s 2	3n45	2s31	18n44	0s12	10n59

Julian Day Number = 2246621.5, Delta T = 06m49s
Ecliptic obliquity = 23°30'34", Nutation = - 0°00'02", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 16°54'46", Lahiri = 16°01'46" Julian Calendar 1 Dec. 1438 == Greg. Calendar 10 Dec. 1438