



Astrodienst Ephemeris Tables for the year 1459

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 1459

geocentric

JANUARY 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	7 15 30	19°23'44	4♂ 5	29♂31	5♂ 9	3°R 9	0♂ 7	2♂28	28°R19	17♂40	18°R41	26°R47	28♂ 6	1♂ 1	26♂35	M 1
T 2	7 19 26	20°24'51	16°25	0♂55	6°16	3♂ 4	0° 8	2°34	28♂17	17°40	18♂39	26♂40	28° 3	1° 8	26°R35	T 2
W 3	7 23 23	21°25'58	28°59	2°20	7°22	2°58	0° 9	2°41	28°15	17°40	18°38	26°33	28° 0	1°14	26°35	W 3
T 4	7 27 19	22°27'05	11♂50	3°46	8°29	2°51	0° 9	2°48	28°13	17°40	18°37	26°27	27°57	1°21	26°35	T 4
F 5	7 31 16	23°28'10	24°55	5°13	9°35	2°43	0°10	2°55	28°11	17°41	18°36	26°23	27°54	1°28	26°34	F 5
S 6	7 35 13	24°29'15	8♂16	6°40	10°41	2°35	0°R10	3° 2	28° 9	17°41	18°34	26°20	27°50	1°34	26°34	S 6
S 7	7 39 9	25°30'19	21°48	8° 9	11°46	2°26	0°10	3° 8	28° 7	17°41	18°33	26°D18	27°47	1°41	26°33	S 7
M 8	7 43 6	26°31'22	5♂32	9°38	12°52	2°16	0° 9	3°15	28° 5	17°41	18°32	26°18	27°44	1°48	26°33	M 8
T 9	7 47 2	27°32'24	19°24	11° 7	13°57	2° 5	0° 9	3°22	28° 3	17°41	18°30	26°20	27°41	1°55	26°32	T 9
W10	7 50 59	28°33'25	3♂24	12°38	15° 2	1°53	0° 8	3°28	28° 1	17°R41	18°29	26°21	27°38	2° 1	26°31	W10
T 11	7 54 55	29°34'24	17°29	14° 9	16° 6	1°41	0° 7	3°35	27°59	17°41	18°27	26°23	27°35	2° 8	26°30	T 11
F 12	7 58 52	0♂35'23	1♂38	15°40	17°10	1°28	0° 6	3°41	27°56	17°41	18°26	26°R23	27°31	2°15	26°29	F 12
S 13	8 2 48	1°36'20	15°49	17°13	18°14	1°14	0° 5	3°48	27°54	17°41	18°25	26°22	27°28	2°21	26°27	S 13
S 14	8 6 45	2°37'15	0♂ 0	18°46	19°18	1° 0	0° 3	3°54	27°52	17°41	18°23	26°21	27°25	2°28	26°26	S 14
M15	8 10 42	3°38'10	14° 9	20°19	20°21	0°44	0° 2	4° 1	27°50	17°41	18°22	26°18	27°22	2°35	26°24	M15
T 16	8 14 38	4°39'03	28°12	21°54	21°24	0°28	29♂59	4° 7	27°47	17°40	18°20	26°15	27°19	2°42	26°23	T 16
W17	8 18 35	5°39'55	12♂ 5	23°29	22°26	0°12	29°58	4°14	27°45	17°40	18°19	26°11	27°15	2°48	26°21	W17
T 18	8 22 31	6°40'46	25°46	25° 5	23°28	29♂54	29°56	4°20	27°43	17°40	18°18	26° 9	27°12	2°55	26°19	T 18
F 19	8 26 28	7°41'35	9♂12	26°41	24°30	29°36	29°53	4°26	27°40	17°40	18°16	26° 7	27° 9	3° 2	26°17	F 19
S 20	8 30 24	8°42'23	22°20	28°19	25°31	29°17	29°51	4°33	27°38	17°39	18°15	26°D 6	27° 6	3° 8	26°15	S 20
S 21	8 34 21	9°43'10	5♂10	29°57	26°32	28°58	29°48	4°39	27°35	17°39	18°13	26° 6	27° 3	3°15	26°13	S 21
M22	8 38 17	10°43'56	17°43	1♂36	27°32	28°38	29°45	4°45	27°33	17°39	18°12	26° 7	27° 0	3°22	26°11	M22
T 23	8 42 14	11°44'40	0♂ 1	3°15	28°32	28°18	29°42	4°51	27°30	17°38	18°10	26° 9	26°56	3°29	26° 8	T 23
W24	8 46 11	12°45'24	12° 6	4°56	29°32	27°57	29°39	4°57	27°28	17°38	18° 9	26°10	26°53	3°35	26° 6	W24
T 25	8 50 7	13°46'06	24° 3	6°37	0♂31	27°36	29°35	5° 3	27°25	17°37	18° 7	26°11	26°50	3°42	26° 3	T 25
F 26	8 54 4	14°46'47	5♂55	8°19	1°29	27°14	29°32	5° 9	27°23	17°37	18° 6	26°12	26°47	3°49	26° 1	F 26
S 27	8 58 0	15°47'27	17°48	10° 2	2°28	26°52	29°28	5°15	27°20	17°36	18° 4	26°R12	26°44	3°55	25°58	S 27
S 28	9 1 57	16°48'06	29°45	11°46	3°25	26°29	29°24	5°21	27°18	17°36	18° 3	26°12	26°40	4° 2	25°55	S 28
M29	9 5 53	17°48'44	11♂53	13°31	4°22	26° 6	29°20	5°27	27°15	17°35	18° 1	26°11	26°37	4° 9	25°52	M29
T 30	9 9 50	18°49'20	24°15	15°16	5°19	25°43	29°15	5°33	27°13	17°34	18° 0	26°10	26°34	4°15	25°49	T 30
W31	9 13 46	19°49'56	6♂54	17♂ 3	6♂14	25♂20	29♂11	5♂38	27♂10	17♂34	17♂58	26♂ 9	26♂31	4♂22	25♂46	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	22s 6	15s59	5n 8	23s31	0s 0	10s32	0s57	13n56	3n49	1n14	1n24	22s46	0n43	12n49	0n47	5s22
T 2	21 57	17 58	4 52	23 38	0 8	10 3	0 53	14 0	3 51	1 14	1 24	22 46	0 43	12 50	0 47	5 22
W 3	21 48	19 8	4 22	23 45	0 16	9 35	0 49	14 4	3 53	1 14	1 24	22 46	0 43	12 51	0 47	5 22
T 4	21 38	19 21	3 39	23 50	0 23	9 6	0 44	14 8	3 55	1 14	1 24	22 46	0 43	12 51	0 47	5 22
F 5	21 28	18 32	2 43	23 55	0 30	8 37	0 40	14 13	3 57	1 14	1 25	22 46	0 43	12 52	0 47	5 22
S 6	21 17	16 41	1 37	23 58	0 37	8 7	0 35	14 18	3 59	1 14	1 25	22 46	0 42	12 53	0 47	5 22
S 7	21 6	13 53	0 25	23 59	0 44	7 38	0 30	14 23	4 1	1 14	1 25	22 46	0 42	12 54	0 47	5 22
M 8	20 55	10 17	0s50	24 0	0 51	7 8	0 25	14 28	4 3	1 15	1 25	22 46	0 42	12 54	0 47	5 22
T 9	20 43	6 6	2 3	23 59	0 57	6 39	0 20	14 34	4 5	1 15	1 26	22 46	0 42	12 55	0 47	5 22
W10	20 31	1 33	3 10	23 57	1 3	6 9	0 15	14 40	4 7	1 16	1 26	22 45	0 42	12 56	0 47	5 22
T 11	20 18	3n 7	4 5	23 54	1 9	5 39	0 10	14 46	4 8	1 16	1 26	22 45	0 42	12 57	0 47	5 22
F 12	20 5	7 36	4 46	23 49	1 15	5 9	0 5	14 53	4 10	1 17	1 27	22 45	0 42	12 57	0 47	5 22
S 13	19 52	11 41	5 9	23 43	1 20	4 39	0n 1	14 59	4 12	1 18	1 27	22 45	0 42	12 58	0 47	5 22
S 14	19 38	15 6	5 14	23 36	1 25	4 9	0 6	15 6	4 14	1 19	1 27	22 45	0 42	12 59	0 47	5 22
M15	19 24	17 37	4 59	23 27	1 30	3 39	0 12	15 13	4 15	1 19	1 27	22 45	0 42	13 0	0 47	5 22
T 16	19 9	19 3	4 27	23 17	1 35	3 9	0 18	15 20	4 17	1 20	1 28	22 44	0 42	13 1	0 47	5 22
W17	18 55	19 19	3 39	23 5	1 39	2 39	0 24	15 28	4 18	1 21	1 28	22 44	0 42	13 2	0 47	5 21
T 18	18 39	18 26	2 40	22 52	1 43	2 9	0 30	15 35	4 20	1 23	1 28	22 44	0 42	13 2	0 47	5 21
F 19	18 24	16 32	1 32	22 37	1 47	1 39	0 36	15 43	4 21	1 24	1 29	22 44	0 42	13 3	0 47	5 21
S 20	18 8	13 47	0 21	22 21	1 50	1 9	0 42	15 51	4 22	1 25	1 29	22 44	0 42	13 4	0 47	5 21
S 21	17 52	10 25	0n50	22 4	1 53	0 39	0 48	15 59	4 24	1 26	1 29	22 44	0 42	13 5	0 47	5 21
M22	17 36	6 39	1 57	21 45	1 56	0 9	0 54	16 7	4 25	1 28	1 29	22 43	0 42	13 6	0 47	5 20
T 23	17 19	2 42	2 57	21 24	1 58	0n21	1 1	16 15	4 26	1 29	1 30	22 43	0 42	13 7	0 47	5 20
W24	17 2	1s18	3 48	21 2	2 0	0 51	1 7	16 23	4 27	1 31	1 30	22 43	0 42	13 8	0 47	5 20
T 25	16 44	5 11	4 28	20 38	2 2	1 20	1 14	16 31	4 28	1 32	1 30	22 43	0 42	13 8	0 47	5 20
F 26	16 27	8 51	4 57	20 13	2 3	1 50	1 21	16 40	4 28	1 34	1 30	22 43	0 42	13 9	0 47	5 20
S 27	16 9	12 10	5 13	19 47	2 4	2 19	1 28	16 48	4 29	1 36	1 31	22 42	0 42	13 10	0 47	5 19
S 28	15 51	15 0	5 16	19 18	2 5	2 48	1 35	16 56	4 30	1 38	1 31	22 42	0 42	13 11	0 47	5 19
M29	15 32	17 14	5 5	18 48	2 5	3 18	1 42	17 5	4 30	1 40	1 31	22 42	0 42	13 12	0 47	5 19
T 30	15 14	18 43	4 40	18 17	2 4	3 47	1 49	17 13	4 30	1 42	1 31	22 42	0 42	13 13	0 47	5 18
W31	14s55	19s20	4n 0	17s44	2s 4	4n15	1n56	17n21	4n31	1n44	1n32	22s42	0n42	13n14	0n47	5s18

Julian Day Number = 2253957.5, Delta T = 06m13s

Ecliptic obliquity = 23°30'26", Nutation = - 0°00'09", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°11'33", Lahiri = 16°18'34" Julian Calendar 1 Jan. 1459 == Greg. Calendar 10 Jan. 1459

ASTRODIENST EPHEMERIS for the year 1459

geocentric

FEBRUARY 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	9 17 43	20 ⁵⁰ 30	19 ⁵² 52	18 ⁵⁰ 50	7 ¹⁰ 10	24 ^R 56	29 ^R 6	5 ³ 44	27 ^R 7	17 ^R 33	17 ^R 57	26 ^R 8	26 ^Ω 28	4 [♂] 29	25 ^R 43	T 1
F 2	9 21 40	21 ⁵¹ 02	3 ⁵ 12	20 ³⁸	8 [°] 4	24 ^Ω 32	29 [♂] 1	5 ⁵⁰	27 ^Ω 5	17 [♂] 32	17 ^Ω 56	26 ^Ω 8	26 [°] 25	4 [°] 36	25 [♂] 39	F 2
S 3	9 25 36	22 ⁵¹ 33	16 ⁵¹	22 ²⁷	8 ⁵⁸	24 [°] 9	28 ⁵⁶	5 ⁵⁵	27 [°] 2	17 [°] 31	17 ⁵⁴	26 [°] 8	26 ²¹	4 ⁴²	25 ³⁶	S 3
S 4	9 29 33	23 ⁵² 02	0 [♂] 49	24 ¹⁷	9 ⁵²	23 ⁴⁵	28 ⁵¹	6 [°] 1	27 [°] 0	17 ³¹	17 ⁵³	26 ^D 8	26 ¹⁸	4 ⁴⁹	25 ³²	S 4
M 5	9 33 29	24 ⁵² 30	15 [°] 1	26 [°] 8	10 ⁴⁴	23 ²¹	28 ⁴⁶	6 [°] 6	26 ⁵⁷	17 ³⁰	17 ⁵¹	26 [°] 8	26 ¹⁵	4 ⁵⁶	25 ²⁹	M 5
T 6	9 37 26	25 ⁵² 56	29 ²²	27 ⁵⁹	11 ³⁶	22 ⁵⁷	28 ⁴¹	6 ¹²	26 ⁵⁴	17 ²⁹	17 ⁵⁰	26 ^R 8	26 ¹²	5 [°] 2	25 ²⁵	T 6
W 7	9 41 22	26 ⁵³ 20	13 [♂] 49	29 ⁵¹	12 ²⁷	22 ³³	28 ³⁵	6 ¹⁷	26 ⁵²	17 ²⁸	17 ⁴⁸	26 [°] 8	26 [°] 9	5 [°] 9	25 ²¹	W 7
T 8	9 45 19	27 ⁵³ 41	28 ¹⁵	1 [♂] 44	13 ¹⁸	22 [°] 9	28 ²⁹	6 ²²	26 ⁴⁹	17 ²⁷	17 ⁴⁷	26 [°] 8	26 [°] 6	5 ¹⁶	25 ¹⁸	T 8
F 9	9 49 15	28 ⁵⁴ 01	12 [♂] 36	3 ³⁸	14 [°] 7	21 ⁴⁶	28 ²³	6 ²⁷	26 ⁴⁶	17 ²⁶	17 ⁴⁵	26 [°] 7	26 [°] 2	5 ²³	25 ¹⁴	F 9
S 10	9 53 12	29 ⁵⁴ 19	26 ⁵⁰	5 ³²	14 ⁵⁶	21 ²³	28 ¹⁷	6 ³²	26 ⁴⁴	17 ²⁵	17 ⁴⁴	26 ^D 7	25 ⁵⁹	5 ²⁹	25 ¹⁰	S 10
S 11	9 57 9	0 [♂] 54 ³⁵	10 [♂] 54	7 ²⁶	15 ⁴⁴	21 [°] 0	28 ¹¹	6 ³⁸	26 ⁴¹	17 ²⁴	17 ⁴²	26 [°] 7	25 ⁵⁶	5 ³⁶	25 [°] 6	S 11
M12	10 1 5	1 ⁵⁴ 49	24 ⁴⁵	9 ²¹	16 ³¹	20 ³⁷	28 [°] 5	6 ⁴³	26 ³⁹	17 ²³	17 ⁴¹	26 [°] 8	25 ⁵³	5 ⁴³	25 [°] 2	M12
T 13	10 5 2	2 ⁵⁵ 01	8 [♂] 24	11 ¹⁵	17 ¹⁷	20 ¹⁵	27 ⁵⁹	6 ⁴⁷	26 ³⁶	17 ²²	17 ³⁹	26 [°] 8	25 ⁵⁰	5 ⁴⁹	24 ⁵⁷	T 13
W14	10 8 58	3 ⁵⁵ 11	21 ⁵¹	13 ¹⁰	18 [°] 2	19 ⁵³	27 ⁵²	6 ⁵²	26 ³³	17 ²¹	17 ³⁸	26 [°] 9	25 ⁴⁶	5 ⁵⁶	24 ⁵³	W14
T 15	10 12 55	4 ⁵⁵ 18	5 ^Ω 4	15 [°] 4	18 ⁴⁶	19 ³¹	27 ⁴⁶	6 ⁵⁷	26 ³¹	17 ²⁰	17 ³⁷	26 ¹⁰	25 ⁴³	6 [°] 3	24 ⁴⁹	T 15
F 16	10 16 51	5 ⁵⁵ 24	18 [°] 4	16 ⁵⁷	19 ²⁹	19 ¹⁰	27 ³⁹	7 [°] 2	26 ²⁸	17 ¹⁹	17 ³⁵	26 ¹⁰	25 ⁴⁰	6 ¹⁰	24 ⁴⁵	F 16
S 17	10 20 48	6 ⁵⁵ 28	0 [♂] 51	18 ⁴⁹	20 ¹¹	18 ⁵⁰	27 ³²	7 [°] 7	26 ²⁶	17 ¹⁸	17 ³⁴	26 ^R 10	25 ³⁷	6 ¹⁶	24 ⁴⁰	S 17
S 18	10 24 44	7 ⁵⁵ 29	13 ²⁶	20 ⁴⁰	20 ⁵²	18 ³⁰	27 ²⁵	7 ¹¹	26 ²³	17 ¹⁷	17 ³²	26 ¹⁰	25 ³⁴	6 ²³	24 ³⁶	S 18
M19	10 28 41	8 ⁵⁵ 29	25 ⁴⁹	22 ²⁹	21 ³¹	18 ¹⁰	27 ¹⁹	7 ¹⁶	26 ²¹	17 ¹⁶	17 ³¹	26 [°] 9	25 ³¹	6 ³⁰	24 ³²	M19
T 20	10 32 37	9 ⁵⁵ 27	8 [♂] 1	24 ¹⁶	22 [°] 9	17 ⁵¹	27 ¹¹	7 ²⁰	26 ¹⁸	17 ¹⁴	17 ³⁰	26 [°] 7	25 ²⁷	6 ³⁶	24 ²⁷	T 20
W21	10 36 34	10 ⁵⁵ 23	20 [°] 3	26 [°] 0	22 ⁴⁶	17 ³³	27 [°] 4	7 ²⁴	26 ¹⁶	17 ¹³	17 ²⁸	26 [°] 5	25 ²⁴	6 ⁴³	24 ²³	W21
T 22	10 40 31	11 ⁵⁵ 17	2 [♂] 0	27 ⁴¹	23 ²²	17 ¹⁵	26 ⁵⁷	7 ²⁹	26 ¹³	17 ¹²	17 ²⁷	26 [°] 2	25 ²¹	6 ⁵⁰	24 ¹⁸	T 22
F 23	10 44 27	12 ⁵⁵ 10	13 ⁵²	29 ¹⁸	23 ⁵⁶	16 ⁵⁸	26 ⁵⁰	7 ³³	26 ¹¹	17 ¹¹	17 ²⁶	26 [°] 0	25 ¹⁸	6 ⁵⁷	24 ¹³	F 23
S 24	10 48 24	13 ⁵⁵ 01	25 ⁴⁵	0 [♂] 51	24 ²⁹	16 ⁴²	26 ⁴²	7 ³⁷	26 [°] 8	17 [°] 9	17 ²⁴	25 ⁵⁸	25 ¹⁵	7 [°] 3	24 [°] 9	S 24
S 25	10 52 20	14 ⁵⁴ 50	7 [♂] 41	2 ¹⁹	25 [°] 0	16 ²⁶	26 ³⁵	7 ⁴¹	26 [°] 6	17 [°] 8	17 ²³	25 ⁵⁷	25 ¹²	7 ¹⁰	24 [°] 4	S 25
M26	10 56 17	15 ⁵⁴ 37	19 ⁴⁷	3 ⁴²	25 ³⁰	16 ¹¹	26 ²⁸	7 ⁴⁵	26 [°] 3	17 [°] 7	17 ²²	25 ^D 57	25 [°] 8	7 ¹⁷	23 ⁵⁹	M26
T 27	11 0 13	16 ⁵⁴ 23	2 [♂] 5	5 [°] 0	25 ⁵⁸	15 ⁵⁷	26 ²⁰	7 ⁴⁹	26 [°] 1	17 [°] 5	17 ²¹	25 ⁵⁸	25 [°] 5	7 ²³	23 ⁵⁵	T 27
W28	11 4 10	17 ⁵⁴ 07	14 [♂] 42	6 [♂] 11	26 [♂] 25	15 ^Ω 44	26 [♂] 12	7 [♂] 53	25 ^Ω 58	17 [♂] 4	17 ^Ω 19	25 ^Ω 59	25 ^Ω 2	7 [♂] 30	23 [♂] 50	W28

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			
T 1	14s35	18s56	3n 8	17s 9	2s 2	4n44	2n 3	17n30	4n31	1n46	1n32	22s41	0n42	13n15	0n47	5s18	1n45	25n18	10n20	12n50	12n44	8s33	2s12	4s16	1n45	25n18	10n20	12n50	12n44	8s33	2s12	4s16
F 2	14 16	17 29	2 4	16 33	2 0	5 12	2 10	17 38	4 31	1 48	1 32	22 41	0 42	13 16	0 47	5 17	1 45	25 19	10 20	12 51	12 45	8 35	2 11	4 16	1n45	25 19	10 20	12 51	12 45	8 35	2 11	4 16
S 3	13 56	15 1	0 51	15 56	1 58	5 40	2 18	17 46	4 31	1 50	1 32	22 41	0 42	13 16	0 47	5 17	1 45	25 19	10 20	12 51	12 46	8 37	2 9	4 16	1n45	25 19	10 20	12 51	12 46	8 37	2 9	4 16
S 4	13 36	11 37	0s26	15 17	1 55	6 8	2 25	17 54	4 31	1 52	1 32	22 41	0 42	13 17	0 47	5 17	1 45	25 20	10 21	12 51	12 47	8 39	2 8	4 16	1n45	25 20	10 21	12 51	12 47	8 39	2 8	4 16
M 5	13 16	7 30	1 43	14 36	1 52	6 36	2 33	18 1	4 30	1 54	1 33	22 41	0 41	13 18	0 47	5 16	1 45	25 20	10 21	12 51	12 48	8 41	2 6	4 16	1n45	25 20	10 21	12 51	12 48	8 41	2 6	4 16
T 6	12 56	2 55	2 54	13 54	1 48	7 4	2 40	18 9	4 30	1 57	1 33	22 40	0 41	13 19	0 47	5 16	1 45	25 21	10 21	12 51	12 49	8 43	2 5	4 16	1n45	25 21	10 21	12 51	12 49	8 43	2 5	4 16
W 7	12 35	1n51	3 55	13 10	1 44	7 31	2 48	18 17	4 29	1 59	1 33	22 40	0 41	13 20	0 47	5 16	1 45	25 21	10 21	12 51	12 50	8 45	2 3	4 16	1n45	25 21	10 21	12 51	12 50	8 45	2 3	4 16
T 8	12 14	6 31	4 41	12 25	1 39	7 58	2 56	18 24	4 29	2 2	1 33	22 40	0 41	13 21	0 47	5 15	1 45	25 22	10 21	12 51	12 51	8 47	2 2	4 16	1n45	25 22	10 21	12 51	12 51	8 47	2 2	4 16
F 9	11 53	10 46	5 9	11 39	1 33	8 24	3 4	18 31	4 28	2 4	1 33	22 40	0 41	13 22	0 47	5 15	1 45	25 22	10 21	12 51	12 52	8 48	2 0	4 15	1n45	25 22	10 21	12 51	12 52	8 48	2 0	4 15
S 10	11 32	14 21	5 17	10 51	1 27	8 50	3 11	18 38	4 27	2 7	1 34	22 39	0 41	13 23	0 47	5 14	1 45	25 23	10 21	12 51	12 54	8 50	1 59	4 15	1n45	25 23	10 21	12 51	12 54	8 50	1 59	4 15
S 11	11 11	17 5	5 7	10 2	1 20	9 16	3 19	18 44	4 26	2 9	1 34	22 39	0 41	13 24	0 47	5 14	1 45	25 23	10 21	12 51	12 55	8 52	1 57	4 15	1n45	25 23	10 21	12 51	12 55	8 52	1 57	4 15
M12	10 49	18 46	4 39	9 12	1 12	9 42	3 27	18 51	4 25	2 12	1 34	22 39	0 41	13 25	0 47	5 14	1 45	25 24	10 21	12 51	12 56	8 54	1 55	4 15	1n45	25 24	10 21	12 51	12 56	8 54	1 55	4 15
T 13	10 28	19 20	3 55	8 21	1 4	10 7	3 35	18 57	4 24	2 15	1 34	22 39	0 41	13 26	0 47	5 13	1 45	25 24	10 21	12 50	12 57	8 56	1 54	4 15	1n45	25 24	10 21	12 50	12 57	8 56	1 54	4 15
W14	10 6	18 47	2 59	7 30	0 56	10 32	3 43	19 3	4 23	2 17	1 34	22 38	0 41	13 26	0 47	5 13	1 45	25 25	10 21	12 50	12 58	8 58	1 52	4 15	1n45	25 25	10 21	12 50	12 58	8 58	1 52	4 15
T 15	9 44	17 12	1 54	6 37	0 46	10 56	3 51	19 9	4 22	2 20	1 34	22 38	0 41	13 27	0 47	5 12	1 45	25 25	10 21	12 50	12 59	9 0	1 50	4 15	1n45	25 25	10 21	12 50	12 59	9 0	1 50	4 15
F 16	9 22	14 45	0 45	5 44	0 36	11 20	4 0	19 14	4 20	2 23	1 35	22 38	0 41	13 28	0 47	5 12	1 45	25 25	10 21	12 50	13 0	9 2	1 48	4 15	1n45	25 25	10 21	12 50	13 0	9 2	1 48	4 15
S 17	9 0	11 36	0n26	4 50	0 26	11 44	4 8	19 19	4 19	2 26	1 35	22 38	0 41	13 29	0 47	5 11	1 45	25 26	10 21	12 50	13 1	9 4	1 46	4 15	1n45	25 26	10 21	12 50	13 1	9 4	1 46	4 15
S 18	8 37	7 59	1 34	3 56	0 15	12 7	4 16	19 24	4 17	2 29	1 35	22 38	0 41	13 30	0 47	5 11	1 45	25 26	10 21	12 50	13 2	9 6	1 45	4 15	1n45	25 26	10 21	12 50	13 2	9 6	1 45	4 15
M19	8 15	4 4	2 37	3 2	0 3	12 29	4 24	19 29	4 16	2 32	1 35	22 37	0 41	13 31	0 47	5 10	1 45	25 27	10 21	12 50	13 3	9 8	1 43	4 14	1n45	25 27	10 21	12 50	13 3	9 8	1 43	4 14
T 20	7 52	0 3	3 31	2 9	0n 9	12 51	4 32	19 33	4 14	2 35	1 35	22 37	0 41	13 32	0 47	5 10	1 46	25 27	10 21	12 51	13 4	9 9	1 41	4 14	1n45	25 27	10 21	12 51	13 4	9 9	1 41	4 14
W21	7 29	3s55	4 16	1 16	0 21	13 13	4 40	19 37	4 12	2 37	1 35	22 37	0 41	13 32	0 47	5 9	1 46	25 28	10 21	12 52	13 5	9 11	1 39	4 14	1n45	25 28	10 21	12 52	13 5	9 11	1 39	4 14
T 22	7 7	7 41	4 48	0 24	0 34	13 34	4 49	19 41	4 10	2 40	1 35	22 37	0 41	13 33	0 47	5 9	1 46	25 28	10 20	12 53	13 6	9 13	1 37	4 14	1n45	25 28	10 20	12 53	13 6	9 13	1 37	4 14
F 23	6 44	11 8	5 8	0n27	0 47	13 54	4 57	19 44	4 8	2 43	1 36	22 36	0 41	13 34	0 47	5 8	1 46	25 28	10 20	12 53	13 8	9 15	1 35	4 14	1n45	25 28	10 20	12 53	13 8	9 15	1 35	4 14
S 24	6 21	14 8	5 15	1 16	1 1	14 14	5 5	19 47	4 6	2 46	1 36	22 36	0 41	13 35	0 47	5 8	1 46	25 29	10 20	12 54	13 9	9 17	1 33	4 13	1n45	25 29	10 20	12 54	13 9	9 17	1 33	4 13
S 25	5 58	16 34	5 9	2 3	1 14	14 33	5 13	19 50	4 4	2 50	1 36	22 36	0 41	13 36	0 47	5 7	1 46	25 29	10 20	12 54	13 10	9 19	1 31	4 13	1n45	25 29	10 20	12 54	13 10	9 19	1 31	4 13
M26	5 34	18 19	4 49	2 49	1 27	14 52	5 21	19 53	4 2	2 53	1 36	22 36	0 41	13 37	0 47	5 7	1 46	25 29	10 20	12 54	13 11	9 21	1 29	4 13	1n45	25 29	10 20	12 54	13 11	9 21	1 29	4 13
T 27	5 11	19 14	4 15	3 32	1 40	15 10	5 29	19 55	4 0	2 56	1 36	22 36	0 41	13 37	0 47	5 6	1 46	25 30	10 20	12 54	13 12	9 23	1 27	4 13	1n45	25 30	10 20	12 54	13 12	9 23	1 27	4 13
W28	4s48	19s15	3n28	4n12	1n53	15n27	5n37	19n57	3n58	2n59	1n36	22s35	0n41	13n38	0n47	5s 6	1n46	25n30	10n20	12n54	13n13	9s25	1s24	4s13	1n46	25n30	10n20	12n54	13n13	9s25	1s24	4s13

Julian Day Number = 2253988.5, Delta T = 06m13s

Ecliptic obliquity = 23°30'27", Nutation = - 0°00'08", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°11'38", Lahiri = 16°18'38" Julian Calendar 1 Feb. 1459 == Greg. Calendar 10 Feb. 1459

ASTRODIENST EPHEMERIS for the year 1459
geocentric

MARCH 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	11 8 6	18°53'49	27°340	7°15	26°50	15°R31	26°R 5	7°357	25°R56	17°R 3	17°R18	26°R 1	24°R59	7°R37	23°R45	T 1
F 2	11 12 3	19°53'30	11°3 3	8°13	27°13	15°R19	25°R57	8° 0	25°R54	17°R 1	17°R17	26° 2	24°R56	7°R44	23°R40	F 2
S 3	11 16 0	20°53'08	24°51	9° 3	27°34	15° 8	25°49	8° 4	25°51	17° 0	17°16	26°R 3	24°R52	7°R50	23°R36	S 3
S 4	11 19 56	21°52'45	9°4 4	9°46	27°53	14°57	25°42	8° 7	25°49	16°58	17°15	26° 2	24°R49	7°R57	23°R31	S 4
M 5	11 23 53	22°52'19	23°37	10°21	28°11	14°48	25°34	8°11	25°47	16°57	17°13	26° 0	24°R46	8° 4	23°R26	M 5
T 6	11 27 49	23°51'52	8°Y25	10°48	28°26	14°39	25°26	8°14	25°45	16°55	17°12	25°57	24°R43	8°11	23°R21	T 6
W 7	11 31 46	24°51'22	23°20	11° 7	28°39	14°31	25°18	8°17	25°42	16°54	17°11	25°53	24°R40	8°17	23°R17	W 7
T 8	11 35 42	25°50'50	8°Y13	11°19	28°51	14°24	25°11	8°20	25°40	16°52	17°10	25°49	24°R37	8°24	23°R12	T 8
F 9	11 39 39	26°50'16	22°56	11°R22	29° 0	14°17	25° 3	8°23	25°38	16°51	17° 9	25°45	24°R33	8°31	23° 7	F 9
S 10	11 43 35	27°49'40	7°II24	11°18	29° 6	14°12	24°55	8°26	25°36	16°49	17° 8	25°42	24°R30	8°37	23° 2	S 10
S 11	11 47 32	28°49'01	21°33	11° 6	29°10	14° 7	24°47	8°29	25°34	16°48	17° 7	25°40	24°R27	8°44	22°57	S 11
M12	11 51 29	29°48'20	5°E21	10°48	29°R12	14° 3	24°40	8°32	25°32	16°46	17° 6	25°D40	24°R24	8°51	22°53	M12
T 13	11 55 25	0°Y47'37	18°49	10°23	29°12	13°59	24°32	8°35	25°30	16°45	17° 5	25°41	24°R21	8°58	22°48	T 13
W14	11 59 22	1°46'51	1°R58	9°52	29° 9	13°57	24°24	8°37	25°28	16°43	17° 4	25°43	24°R17	9° 4	22°43	W14
T 15	12 3 18	2°46'03	14°51	9°16	29° 4	13°55	24°17	8°40	25°26	16°42	17° 3	25°44	24°R14	9°11	22°39	T 15
F 16	12 7 15	3°45'12	27°31	8°36	28°56	13°54	24° 9	8°42	25°24	16°40	17° 2	25°R45	24°R11	9°18	22°34	F 16
S 17	12 11 11	4°44'20	9°R59	7°53	28°45	13°D54	24° 2	8°45	25°22	16°38	17° 1	25°44	24° 8	9°24	22°29	S 17
S 18	12 15 8	5°43'25	22°17	7° 6	28°32	13°54	23°54	8°47	25°20	16°37	17° 0	25°41	24° 5	9°31	22°25	S 18
M19	12 19 4	6°42'28	4°E27	6°19	28°17	13°55	23°47	8°49	25°19	16°35	16°59	25°36	24° 2	9°38	22°20	M19
T 20	12 23 1	7°41'28	16°30	5°30	27°59	13°57	23°39	8°51	25°17	16°34	16°58	25°29	23°58	9°45	22°16	T 20
W21	12 26 57	8°40'27	28°28	4°42	27°39	14° 0	23°32	8°53	25°15	16°32	16°58	25°21	23°55	9°51	22°11	W21
T 22	12 30 54	9°39'24	10°R22	3°55	27°16	14° 3	23°25	8°55	25°14	16°30	16°57	25°13	23°52	9°58	22° 7	T 22
F 23	12 34 51	10°38'19	22°14	3°11	26°52	14° 7	23°18	8°57	25°12	16°29	16°56	25° 4	23°49	10° 5	22° 2	F 23
S 24	12 38 47	11°37'12	4°E7	2°29	26°25	14°12	23°11	8°58	25°10	16°27	16°55	24°57	23°46	10°11	21°58	S 24
S 25	12 42 44	12°36'04	16° 4	1°50	25°56	14°17	23° 4	9° 0	25° 9	16°25	16°54	24°52	23°43	10°18	21°54	S 25
M26	12 46 40	13°34'53	28° 7	1°16	25°26	14°23	22°57	9° 1	25° 7	16°24	16°54	24°48	23°39	10°25	21°50	M26
T 27	12 50 37	14°33'41	10°E23	0°46	24°53	14°30	22°50	9° 3	25° 6	16°22	16°53	24°D47	23°36	10°32	21°45	T 27
W28	12 54 33	15°32'27	22°55	0°20	24°20	14°37	22°43	9° 4	25° 5	16°20	16°52	24°47	23°33	10°38	21°41	W28
T 29	12 58 30	16°31'11	5°R48	29°Y59	23°45	14°45	22°37	9° 5	25° 3	16°19	16°52	24°48	23°30	10°45	21°37	T 29
F 30	13 2 26	17°29'54	19° 6	29°45	23° 9	14°53	22°30	9° 6	25° 2	16°17	16°51	24°R49	23°27	10°52	21°33	F 30
S 31	13 6 23	18°Y28'35	2°E52	29°Y35	22°Y32	15°R 2	22°R24	9°E 7	25°R 1	16°E16	16°R51	24°R49	23°R23	10°R58	21°R29	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	4s24	18s14	2n30	4n49	2n 6	15n43	5n45	19n59	3n56	3n 2	1n36	22s35	0n41	13n39	0n47	5s 5	1n46
F 2	4 1 16 12	1 22	5 23	2 18	15 59	5 53	20 0	3 54	3 5	1 36	22 35	0 41	13 40	0 47	5 4	1 46	25 31
S 3	3 37 13 10	0 7	5 54	2 30	16 14	6 0	20 2	3 51	3 8	1 36	22 35	0 41	13 41	0 47	5 4	1 46	25 31
S 4	3 14 9 17	1s11	6 20	2 41	16 28	6 8	20 2	3 49	3 11	1 36	22 34	0 41	13 41	0 47	5 3	1 46	25 31
M 5	2 50 4 46	2 26	6 43	2 51	16 41	6 15	20 3	3 47	3 14	1 36	22 34	0 41	13 42	0 47	5 3	1 46	25 31
T 6	2 27 0n 6	3 32	7 2	3 0	16 53	6 22	20 3	3 44	3 18	1 36	22 34	0 41	13 43	0 47	5 2	1 46	25 32
W 7	2 3 5 0	4 24	7 17	3 8	17 5	6 29	20 4	3 42	3 21	1 36	22 34	0 41	13 44	0 47	5 2	1 46	25 32
T 8	1 39 9 35	4 58	7 28	3 15	17 15	6 36	20 3	3 40	3 24	1 36	22 34	0 41	13 44	0 47	5 1	1 46	25 32
F 9	1 16 13 31	5 12	7 34	3 20	17 24	6 43	20 3	3 37	3 27	1 36	22 34	0 41	13 45	0 47	5 0	1 46	25 32
S 10	0 52 16 34	5 6	7 36	3 24	17 33	6 49	20 2	3 35	3 30	1 36	22 33	0 41	13 46	0 47	5 0	1 46	25 33
S 11	0 28 18 33	4 41	7 34	3 26	17 40	6 55	20 2	3 32	3 33	1 36	22 33	0 41	13 46	0 47	4 59	1 46	25 33
M12	0 5 19 23	4 1	7 28	3 27	17 46	7 1	20 0	3 30	3 36	1 36	22 33	0 41	13 47	0 47	4 58	1 46	25 33
T 13	0n19 19 5	3 8	7 17	3 26	17 51	7 6	19 59	3 28	3 39	1 36	22 33	0 41	13 48	0 47	4 58	1 46	25 33
W14	0 43 17 44	2 6	7 3	3 24	17 54	7 11	19 58	3 25	3 42	1 36	22 33	0 41	13 48	0 47	4 57	1 46	25 33
T 15	1 6 15 29	0 59	6 44	3 19	17 56	7 15	19 56	3 23	3 45	1 36	22 33	0 41	13 49	0 47	4 57	1 46	25 34
F 16	1 30 12 31	0n10	6 23	3 13	17 57	7 19	19 54	3 20	3 48	1 36	22 32	0 41	13 50	0 47	4 56	1 46	25 34
S 17	1 53 9 2	1 17	5 59	3 6	17 57	7 23	19 51	3 18	3 51	1 36	22 32	0 41	13 50	0 47	4 55	1 46	25 34
S 18	2 17 5 12	2 19	5 32	2 57	17 55	7 26	19 49	3 15	3 54	1 36	22 32	0 41	13 51	0 47	4 55	1 46	25 34
M19	2 40 1 12	3 14	5 3	2 46	17 51	7 28	19 46	3 13	3 57	1 36	22 32	0 41	13 51	0 47	4 54	1 46	25 34
T 20	3 4 2s49	4 0	4 33	2 34	17 46	7 30	19 44	3 11	4 0	1 36	22 32	0 41	13 52	0 47	4 53	1 46	25 34
W21	3 27 6 41	4 35	4 1	2 21	17 40	7 31	19 40	3 8	4 3	1 36	22 32	0 41	13 52	0 47	4 53	1 46	25 34
T 22	3 50 10 16	4 58	3 30	2 6	17 32	7 32	19 37	3 6	4 6	1 36	22 32	0 41	13 53	0 47	4 52	1 46	25 35
F 23	4 13 13 26	5 7	2 58	1 51	17 23	7 31	19 34	3 3	4 8	1 36	22 31	0 41	13 54	0 47	4 52	1 46	25 35
S 24	4 36 16 3	5 4	2 27	1 36	17 12	7 30	19 30	3 1	4 11	1 36	22 31	0 41	13 54	0 47	4 51	1 46	25 35
S 25	5 0 18 1	4 47	1 57	1 20	17 0	7 29	19 26	2 59	4 14	1 36	22 31	0 41	13 54	0 47	4 50	1 46	25 35
M26	5 22 19 12	4 18	1 28	1 3	16 46	7 26	19 22	2 56	4 16	1 36	22 31	0 41	13 55	0 47	4 50	1 46	25 35
T 27	5 45 19 31	3 36	1 1	0 47	16 31	7 23	19 18	2 54	4 19	1 36	22 31	0 41	13 55	0 47	4 49	1 46	25 35
W28	6 8 18 53	2 43	0 36	0 31	16 14	7 18	19 14	2 52	4 22	1 36	22 31	0 41	13 56	0 47	4 48	1 46	25 35
T 29	6 31 17 15	1 40	0 13	0 15	15 56	7 13	19 9	2 49	4 24	1 35	22 31	0 41	13 56	0 47	4 48	1 46	25 35
F 30	6 53 14 39	0 31	0s 7	0s 1	15 37	7 7	19 5	2 47	4 27	1 35	22 31	0 41	13 57	0 47	4 47	1 46	25 35
S 31	7n16 11s 9	0s43	0s25	0s17	15n17	7n 1	19n 0	2n45	4n29	1n35	22s31	0n41	13n57	0n46	4s46	1n46	25n35

Julian Day Number = 2254016.5, Delta T = 06m13s
Ecliptic obliquity = 23°30'27", Nutation = - 0°00'09", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°11'41", Lahiri = 16°18'42" Julian Calendar 1 March 1459 == Greg. Calendar 10 March 1459

ASTRODIENST EPHEMERIS for the year 1459

geocentric

APRIL 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	13 10 20	19°27'14	17°16' 6	29°D30	21°R54	15°Ω12	22°R17	9°8 8	24°R59	16°R14	16°R50	24°R47	23°Ω20	11°16 5	21°R25	S 1
M 2	13 14 16	20°25'51	1°46 6	29°131	21°Y17	15°22	22°11 11	9° 9 9	24°Ω58	16°Ω12	16°Ω50	24°Ω42	23°17	11°12	21°11 22	M 2
T 3	13 18 13	21°24'27	16°47	29°36	20°39	15°33	22° 5	9°10	24°57	16°11	16°49	24°36	23°14	11°19	21°18	T 3
W 4	13 22 9	22°23'00	28° 0	29°47	20° 1	15°44	21°59	9°10	24°56	16° 9	16°49	24°28	23°11	11°25	21°14	W 4
T 5	13 26 6	23°21'32	17°14	0°Y 2	19°24	15°56	21°53	9°11	24°55	16° 7	16°48	24°19	23° 8	11°32	21°11	T 5
F 6	13 30 2	24°20'01	2°11 8	0°22	18°47	16° 9	21°48	9°11	24°54	16° 6	16°48	24°10	23° 4	11°39	21° 7	F 6
S 7	13 33 59	25°18'29	17° 4	0°46	18°11	16°22	21°42	9°12	24°53	16° 4	16°47	24° 3	23° 1	11°46	21° 4	S 7
S 8	13 37 55	26°16'54	1°25 25	1°15	17°37	16°35	21°37	9°12	24°52	16° 2	16°47	23°59	22°58	11°52	21° 0	S 8
M 9	13 41 52	27°15'17	15°20	1°48	17° 3	16°49	21°32	9°12	24°52	16° 1	16°47	23°56	22°55	11°59	20°57	M 9
T 10	13 45 49	28°13'38	28°48	2°25	16°31	17° 4	21°27	9°R12	24°51	15°59	16°46	23°D56	22°52	12° 6	20°54	T 10
W11	13 49 45	29°11'57	11°Ω53	3° 6	16° 1	17°19	21°22	9°12	24°50	15°58	16°46	23°56	22°49	12°12	20°51	W11
T 12	13 53 42	0°10'14	24°37	3°50	15°33	17°34	21°17	9°12	24°49	15°56	16°46	23°R56	22°45	12°19	20°48	T 12
F 13	13 57 38	1° 8'29	7°11 5	4°38	15° 6	17°50	21°12	9°12	24°49	15°55	16°46	23°56	22°42	12°26	20°45	F 13
S 14	14 1 35	2° 6'41	19°20	5°30	14°42	18° 7	21° 8	9°11	24°48	15°53	16°45	23°53	22°39	12°33	20°42	S 14
S 15	14 5 31	3° 4'52	1°Δ26	6°24	14°19	18°24	21° 4	9°11	24°48	15°51	16°45	23°47	22°36	12°39	20°40	S 15
M16	14 9 28	4° 3'01	13°26	7°22	13°59	18°41	21° 0	9°10	24°47	15°50	16°45	23°39	22°33	12°46	20°37	M16
T 17	14 13 24	5° 1'08	25°22	8°23	13°42	18°58	20°56	9°10	24°47	15°48	16°45	23°28	22°29	12°53	20°35	T 17
W18	14 17 21	5°59'13	7°11 6	9°26	13°26	19°17	20°52	9° 9	24°47	15°47	16°45	23°16	22°26	12°59	20°32	W18
T 19	14 21 18	6°57'16	19° 9	10°32	13°14	19°35	20°48	9° 8	24°46	15°45	16°45	23° 2	22°23	13° 6	20°30	T 19
F 20	14 25 14	7°55'18	1°17 2	11°41	13° 3	19°54	20°45	9° 7	24°46	15°44	16°D45	22°49	22°20	13°13	20°28	F 20
S 21	14 29 11	8°53'19	12°57	12°53	12°55	20°13	20°41	9° 6	24°46	15°42	16°45	22°38	22°17	13°20	20°26	S 21
S 22	14 33 7	9°51'18	24°56	14° 7	12°50	20°33	20°38	9° 5	24°46	15°41	16°45	22°28	22°14	13°26	20°24	S 22
M23	14 37 4	10°49'15	7°3 3	15°23	12°47	20°53	20°35	9° 4	24°46	15°39	16°45	22°22	22°10	13°33	20°22	M23
T 24	14 41 0	11°47'11	19°19	16°42	12°D46	21°13	20°33	9° 2	24°D46	15°38	16°45	22°17	22° 7	13°40	20°20	T 24
W25	14 44 57	12°45'06	1°Δ50	18° 3	12°48	21°34	20°30	9° 1	24°46	15°37	16°45	22°16	22° 4	13°46	20°18	W25
T 26	14 48 53	13°42'59	14°39	19°27	12°52	21°55	20°28	8°59	24°46	15°35	16°45	22°15	22° 1	13°53	20°17	T 26
F 27	14 52 50	14°40'52	27°51	20°53	12°58	22°17	20°25	8°58	24°46	15°34	16°46	22°15	21°58	14° 0	20°15	F 27
S 28	14 56 47	15°38'43	11°12 29	22°21	13° 7	22°38	20°23	8°56	24°46	15°32	16°46	22°14	21°54	14° 7	20°14	S 28
S 29	15 0 43	16°36'32	25°35	23°51	13°17	23° 1	20°21	8°54	24°46	15°31	16°46	22°12	21°51	14°13	20°12	S 29
M30	15 4 40	17°34'21	10°Y 9	25°Y23	13°Y30	23°Ω23	20°11 20	8°53 53	24°Ω47	15°Ω30	16°Ω46	22°Ω 6	21°Ω48	14°11 20	20°11 11	M30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	7n38	6s54	1s57	0s41	0s31	14n56	6n53	18n55	2n43	4n31	1n35	22s31	0n41	13n57	0n46	4s46
M 2	8 0 2	7 3 5	0 54	0 46	14 34	6 45	18 50	2 41	4 34	1 35	22 31	0 41	13 58	0 46	4 45	1 46
T 3	8 22	2n54	4 1 4	0 59	14 11	6 36	18 44	2 38	4 36	1 35	22 31	0 41	13 58	0 46	4 45	1 46
W 4	8 44	7 48	4 42	1 11	1 12	13 48	6 26	18 39	2 36	4 38	1 35	22 31	0 41	13 58	0 46	4 44
T 5	9 6	12 11	5 2 1	1 17	1 24	13 24	6 15	18 33	2 34	4 40	1 35	22 31	0 41	13 59	0 46	4 43
F 6	9 28	15 45	5 1 1	1 19	1 36	12 59	6 4	18 27	2 32	4 42	1 34	22 31	0 41	13 59	0 46	4 43
S 7	9 49	18 13	4 41	1 19	1 46	12 35	5 53	18 21	2 30	4 44	1 34	22 31	0 41	13 59	0 46	4 42
S 8	10 10	19 28	4 2 1	1 17	1 56	12 10	5 40	18 15	2 28	4 46	1 34	22 31	0 41	14 0	0 46	4 41
M 9	10 31	19 28	3 11	1 12	2 6	11 45	5 28	18 9	2 26	4 48	1 34	22 31	0 41	14 0	0 46	4 41
T 10	10 52	18 20	2 10	1 5	2 14	11 21	5 15	18 3	2 24	4 50	1 34	22 31	0 41	14 0	0 46	4 40
W11	11 13	16 15	1 4 0	0 56	2 22	10 57	5 1	17 56	2 21	4 52	1 34	22 31	0 41	14 0	0 46	4 40
T 12	11 34	13 25	0n 4	0 45	2 29	10 33	4 47	17 49	2 19	4 54	1 33	22 31	0 41	14 0	0 46	4 39
F 13	11 54	10 1	1 9 0	0 31	2 35	10 10	4 34	17 43	2 17	4 55	1 33	22 31	0 41	14 1	0 46	4 38
S 14	12 14	6 14	2 11 0	0 16	2 41	9 47	4 19	17 36	2 16	4 57	1 33	22 31	0 41	14 1	0 46	4 38
S 15	12 34	2 15	3 5 0	0n 1	2 46	9 26	4 5	17 28	2 14	4 58	1 33	22 31	0 41	14 1	0 46	4 37
M16	12 54	1s47	3 51	0 20	2 50	9 5	3 51	17 21	2 12	5 0	1 33	22 31	0 41	14 1	0 46	4 37
T 17	13 14	5 43	4 26	0 41	2 53	8 45	3 37	17 14	2 10	5 1	1 32	22 31	0 41	14 1	0 46	4 36
W18	13 33	9 25	4 49	1 3	2 56	8 26	3 23	17 6	2 8	5 3	1 32	22 31	0 41	14 1	0 46	4 36
T 19	13 52	12 45	5 0 1	27	2 58	8 8	3 8	16 59	2 6	5 4	1 32	22 31	0 41	14 1	0 46	4 35
F 20	14 11	15 34	4 58	1 53	2 59	7 51	2 54	16 51	2 4	5 5	1 32	22 31	0 41	14 1	0 46	4 34
S 21	14 30	17 45	4 42	2 20	3 0	7 35	2 41	16 43	2 2	5 6	1 32	22 31	0 41	14 1	0 46	4 34
S 22	14 49	19 10	4 14	2 49	3 0	7 20	2 27	16 35	2 0	5 7	1 31	22 31	0 41	14 1	0 46	4 33
M23	15 7	19 45	3 35	3 19	3 0	7 6	2 13	16 27	1 59	5 8	1 31	22 31	0 41	14 1	0 46	4 33
T 24	15 25	19 24	2 45	3 50	2 59	6 54	2 0	16 19	1 57	5 9	1 31	22 31	0 40	14 1	0 46	4 32
W25	15 43	18 5	1 46	4 23	2 57	6 43	1 47	16 10	1 55	5 10	1 31	22 32	0 40	14 1	0 46	4 32
T 26	16 0	15 51	0 40	4 56	2 54	6 33	1 34	16 2	1 53	5 11	1 31	22 32	0 40	14 1	0 46	4 31
F 27	16 17	12 43	0s30	5 31	2 52	6 24	1 22	15 53	1 52	5 11	1 30	22 32	0 40	14 1	0 45	4 31
S 28	16 34	8 49	1 40	6 7	2 48	6 16	1 10	15 44	1 50	5 12	1 30	22 32	0 40	14 1	0 45	4 30
S 29	16 51	4 18	2 46	6 44	2 44	6 9	0 58	15 35	1 48	5 12	1 30	22 32	0 40	14 1	0 45	4 30
M30	17n 7	0n36	3s44	7n23	2s39	6n 4	0n47	15n26	1n46	5n13	1n30	22s32	0n40	14n 1	0n45	4s29

Julian Day Number = 2254047.5, Delta T = 06m13s

Ecliptic obliquity = 23°30'27, Nutation = - 0°00'11, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°11'46, Lahiri = 16°18'46 Julian Calendar 1 Apr. 1459 == Greg. Calendar 10 Apr. 1459

ASTRODIENST EPHEMERIS for the year 1459

geocentric

MAY 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	15 8 36	18°32'08	25°57' 7	26°58' 13	23°04' 20	20°R18	8°R51	24°04' 15	15°R28	16°04' 21	21°R58	21°04' 14	20°R10	T 1		
W 2	15 12 33	19°29'54	10°08'21	28°35' 14	24° 9	20°17	8°34' 24	15°02' 16	16°47' 21	21°48' 21	21°42' 14	20°17	W 2			
T 3	15 16 29	20°27'39	25°41' 0	14°20' 24	20°16	8°46' 24	15°26' 16	21°37' 21	21°39' 21	21°35' 14	20° 8	T 3				
F 4	15 20 26	21°25'23	10°11'54	1°55' 14	24°56' 20	15° 8	24°48' 15	24°48' 15	21°27' 21	21°35' 14	20° 8	F 4				
S 5	15 24 22	22°23'05	25°51' 3	3°39' 15	25°20' 20	14° 8	24°49' 15	15°23' 16	16°48' 21	21°18' 21	21°32' 14	20° 7	S 5			
S 6	15 28 19	23°20'45	10°08'24	5°24' 15	25°26' 20	13° 8	24°50' 15	15°22' 16	16°49' 21	21°11' 21	21°29' 15	20° 7	S 6			
M 7	15 32 16	24°18'24	24°28' 7	15°52' 26	26° 9	20°13	8°37' 24	15°21' 16	16°49' 21	21° 7	21°26' 15	20° 6	M 7			
T 8	15 36 12	25°16'02	8°02' 3	9° 2	16°19' 26	34° 20	13° 8	24°51' 15	15°20' 16	21° 5	21°23' 15	20° 6	T 8			
W 9	15 40 9	26°13'38	21°10' 10	10°53' 16	26°59' 20	13° 8	24°52' 15	15°18' 16	16°50' 21	21° 5	21°20' 15	20° 6	W 9			
T 10	15 44 5	27°11'12	3°10'54	12°48' 17	17°18' 20	13° 8	24°53' 15	15°17' 16	16°51' 21	21° 5	21°16' 15	20°D 6	T 10			
F 11	15 48 2	28° 8'45	16°19' 14	14°44' 17	27°50' 20	13° 8	24°54' 15	15°16' 16	16°51' 21	21° 4	21°13' 15	20° 6	F 11			
S 12	15 51 58	29° 6'16	28°30' 16	16°42' 18	28°16' 28	13° 8	24°54' 15	15°15' 16	16°52' 21	21° 1	21°10' 15	20° 6	S 12			
S 13	15 55 55	0°11'34	10°08'31	18°42' 18	18°56' 28	14° 20	8°21' 24	15°14' 16	16°52' 21	20°56' 21	21° 7	15°48' 20	7	S 13		
M14	15 59 51	1° 1'15	22°26' 20	44°19' 32	29° 8	20°15	8°18' 24	15°13' 16	16°53' 21	20°48' 21	21° 4	15°54' 20	7	M14		
T 15	16 3 48	1°58'43	4°11'18	22°48' 20	29°35' 20	16° 8	8°15' 24	15°12' 16	16°54' 21	20°37' 21	21° 0	16° 1	20° 7	T 15		
W16	16 7 44	2°56'09	16°10' 24	24°54' 20	46° 0	17° 2	8°12' 24	15°11' 16	16°55' 21	20°24' 20	20°57' 16	20° 8	W16			
T 17	16 11 41	3°53'35	28° 4	27° 1	21°25' 0	29° 19	8° 8	25° 0	15°10' 16	16°55' 21	20°11' 20	16°14' 20	20° 9	T 17		
F 18	16 15 38	4°50'59	10°08' 2	29° 9	22° 5	0°56' 20	20°20' 8	25° 1	15° 9	16°56' 19	19°58' 20	20°51' 16	21°10' 20	F 18		
S 19	16 19 34	5°48'23	22° 2	1°11'19	22°47' 1	24° 20	22° 8	25° 3	15° 8	16°57' 19	19°46' 20	20°48' 16	21°11' 20	S 19		
S 20	16 23 31	6°45'45	4°08' 8	3°30' 23	29° 1	52° 20	20°24' 7	25° 4	15° 7	16°58' 19	19°37' 20	20°45' 16	21°12' 20	S 20		
M21	16 27 27	7°43'07	16°23' 5	5°41' 24	12° 2	20°26	7°55' 25	5° 6	15° 6	16°59' 19	19°30' 20	20°41' 16	21°13' 20	M21		
T 22	16 31 24	8°40'29	28°47' 7	5°53' 24	48° 2	20°28	7°52' 25	6° 6	15° 6	16°59' 19	19°26' 20	20°38' 16	21°14' 20	T 22		
W23	16 35 20	9°37'49	11°08'23	10° 5	25°41' 3	16° 20	7°48' 25	8° 5	15° 5	17° 0	19°24' 20	20°35' 16	21°15' 20	W23		
T 24	16 39 17	10°35'09	24°15' 12	12°17' 26	27°13' 4	14° 20	7°41' 25	11° 5	17° 2	19°D24' 20	20°32' 17	21° 1	21°17' 20	T 24		
F 25	16 43 14	11°32'29	7°08'26	14°29' 27	13° 1	4°43' 20	7°41' 25	11° 5	17° 2	19°R24' 20	20°29' 17	21° 8	21°19' 20	F 25		
S 26	16 47 10	12°29'48	20°59' 16	16°40' 28	1° 4	4°43' 20	7°37' 25	13° 3	17° 3	19°24' 20	20°26' 17	21°15' 20	21°20' 20	S 26		
S 27	16 51 7	13°27'06	4°08'56	18°50' 28	49° 5	12° 20	7°33' 25	15° 2	17° 4	19°22' 20	20°22' 17	21°22' 20	21°23' 20	S 27		
M28	16 55 3	14°24'25	19°18' 20	59°29' 38	5°41' 20	45° 7	25°16' 15	1° 17	5° 19	19°18' 20	17°28' 20	21°20' 20	21°25' 20	M28		
T 29	16 59 0	15°21'42	4°08' 2	23° 6	0°82' 6	11° 20	7°25' 25	18° 15	1° 17	19° 6	20°16' 17	17°35' 20	21°27' 20	T 29		
W30	17 2 56	16°19'00	19° 2	25°12' 1	18° 6	41° 20	7°22' 25	20° 15	1° 17	19° 4	20°13' 17	17°42' 20	21°29' 20	W30		
T 31	17 6 53	17°16'17	4°11'11	27°11'17	2° 8	7°11' 20	7°18' 25	22° 14	15° 17	18°05' 20	17°49' 20	21°23' 20	21°31' 20	T 31		

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	17n23	5n35	4s28	8n 1	2s34	5n59	0n35	15n17	1n45	5n13	1n29	22s32	0n40	14n 1	0n45	4s29
W 2	17 39	10 18	4 54	8 41	2 28	5 55	0 25	15 8	1 43	5 14	1 29	22 33	0 40	14 0	0 45	4 28
T 3	17 55	14 23	5 0	9 22	2 22	5 53	0 14	14 58	1 42	5 14	1 29	22 33	0 40	14 0	0 45	4 28
F 4	18 10	17 28	4 43	10 3	2 16	5 52	0 4	14 49	1 40	5 14	1 29	22 33	0 40	14 0	0 45	4 27
S 5	18 25	19 19	4 8	10 45	2 8	5 51	0s 6	14 39	1 38	5 14	1 28	22 33	0 40	14 0	0 45	4 27
S 6	18 40	19 49	3 17	11 28	2 1	5 51	0 16	14 30	1 37	5 14	1 28	22 33	0 40	14 0	0 45	4 26
M 7	18 54	19 4	2 16	12 11	1 52	5 53	0 25	14 20	1 35	5 14	1 28	22 34	0 40	13 59	0 45	4 26
T 8	19 8	17 12	1 8	12 54	1 44	5 55	0 34	14 10	1 34	5 14	1 28	22 34	0 40	13 59	0 45	4 26
W 9	19 22	14 29	0n 0	13 38	1 35	5 58	0 42	14 0	1 32	5 14	1 28	22 34	0 40	13 59	0 45	4 25
T 10	19 35	11 9	1 7	14 22	1 26	6 2	0 51	13 49	1 31	5 14	1 27	22 34	0 40	13 58	0 45	4 25
F 11	19 48	7 24	2 9	15 5	1 16	6 7	0 59	13 39	1 29	5 13	1 27	22 34	0 40	13 58	0 45	4 24
S 12	20 1	3 25	3 4	15 49	1 6	6 12	1 6	13 29	1 28	5 13	1 27	22 35	0 40	13 58	0 45	4 24
S 13	20 13	0s39	3 50	16 33	0 56	6 18	1 14	13 18	1 26	5 12	1 27	22 35	0 40	13 57	0 45	4 24
M14	20 25	4 39	4 25	17 16	0 45	6 25	1 21	13 8	1 25	5 12	1 26	22 35	0 40	13 57	0 45	4 23
T 15	20 37	8 28	4 48	17 58	0 35	6 33	1 28	12 57	1 23	5 11	1 26	22 35	0 40	13 57	0 45	4 23
W16	20 48	11 56	4 59	18 39	0 24	6 41	1 34	12 46	1 22	5 10	1 26	22 35	0 40	13 56	0 45	4 22
T 17	20 59	14 57	4 58	19 20	0 13	6 50	1 40	12 35	1 20	5 10	1 26	22 36	0 40	13 56	0 45	4 22
F 18	21 10	17 21	4 42	19 59	0 3	6 59	1 46	12 24	1 19	5 9	1 25	22 36	0 40	13 55	0 45	4 22
S 19	21 20	19 2	4 15	20 37	0n 8	7 9	1 52	12 13	1 18	5 8	1 25	22 36	0 40	13 55	0 45	4 22
S 20	21 30	19 51	3 35	21 13	0 19	7 19	1 57	12 2	1 16	5 7	1 25	22 36	0 40	13 54	0 45	4 21
M21	21 40	19 46	2 46	21 47	0 29	7 30	2 3	11 50	1 15	5 6	1 25	22 37	0 40	13 54	0 45	4 21
T 22	21 49	18 43	1 47	22 20	0 39	7 42	2 8	11 39	1 13	5 5	1 24	22 37	0 40	13 53	0 45	4 21
W23	21 57	16 44	0 42	22 49	0 48	7 54	2 12	11 27	1 12	5 4	1 24	22 37	0 40	13 53	0 44	4 20
T 24	22 6	13 53	0s26	23 17	0 58	8 6	2 17	11 16	1 11	5 2	1 24	22 37	0 39	13 52	0 44	4 20
F 25	22 14	10 16	1 34	23 42	1 6	8 19	2 21	11 4	1 9	5 1	1 24	22 38	0 39	13 52	0 44	4 20
S 26	22 21	6 2	2 40	24 4	1 14	8 32	2 25	10 52	1 8	5 0	1 23	22 38	0 39	13 51	0 44	4 20
S 27	22 29	1 21	3 37	24 24	1 22	8 46	2 29	10 40	1 7	4 58	1 23	22 38	0 39	13 50	0 44	4 19
M28	22 36	3n31	4 23	24 41	1 29	9 0	2 33	10 28	1 5	4 57	1 23	22 39	0 39	13 50	0 44	4 19
T 29	22 42	8 18	4 53	24 55	1 35	9 14	2 36	10 16	1 4	4 55	1 23	22 39	0 39	13 49	0 44	4 19
W30	22 48	12 40	5 4	25 6	1 41	9 28	2 39	10 4	1 3	4 54	1 22	22 39	0 39	13 48	0 44	4 19
T 31	22n54	16n14	4s53	25n14	1n46	9n43	2s42	9n51	1n 2	4n52	1n22	22s39	0n39	13n48	0n44	4s19

Julian Day Number = 2254077.5, Delta T = 06m12s
 Ecliptic obliquity = 23°30'27", Nutation = - 0°00'12", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 17°11'50", Lahiri = 16°18'50" Julian Calendar 1 May 1459 == Greg. Calendar 10 May 1459

ASTRODIENST EPHEMERIS for the year 1459
geocentric

JUNE 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	17 10 49	18II13'34	19II17	29II20	38 0	7♍41	21♍0	7°R14	25♍24	14°R59	17♍10	18°R46	20♍6	17♍55	20♍34	F 1
S 2	17 14 46	19°10'50	4♌11	1♌20	3°52	8°11	21°4	7♌10	25°26	14°♌58	17°11	18♌38	20°3	18°2	20°36	S 2
S 3	17 18 43	20° 8'06	18°45	3°19	4°45	8°42	21°8	7°5	25°28	14°58	17°12	18°33	20°0	18°9	20°39	S 3
M 4	17 22 39	21° 5'21	2♌23	5°16	5°38	9°13	21°12	7°1	25°30	14°57	17°13	18°30	19°57	18°15	20°42	M 4
T 5	17 26 36	22° 2'35	16°33	7°11	6°32	9°43	21°17	6°57	25°32	14°57	17°14	18°D29	19°54	18°22	20°45	T 5
W 6	17 30 32	22°59'49	29°45	9°3	7°27	10°14	21°22	6°53	25°34	14°57	17°15	18°29	19°51	18°29	20°48	W 6
T 7	17 34 29	23°57'02	12♍33	10°53	8°21	10°46	21°27	6°49	25°36	14°56	17°17	18°30	19°47	18°36	20°51	T 7
F 8	17 38 25	24°54'14	25°1	12°41	9°17	11°17	21°32	6°44	25°39	14°56	17°18	18°R31	19°44	18°42	20°54	F 8
S 9	17 42 22	25°51'26	7♌12	14°27	10°13	11°49	21°37	6°40	25°41	14°56	17°19	18°30	19°41	18°49	20°57	S 9
S 10	17 46 18	26°48'37	19°13	16°11	11°9	12°20	21°42	6°36	25°43	14°55	17°21	18°27	19°38	18°56	21°1	S 10
M11	17 50 15	27°45'48	1♍7	17°52	12°6	12°52	21°48	6°32	25°45	14°55	17°22	18°22	19°35	19°3	21°4	M11
T 12	17 54 12	28°42'58	12°59	19°31	13°3	13°24	21°53	6°27	25°48	14°55	17°23	18°16	19°32	19°9	21°8	T 12
W13	17 58 8	29°40'08	24°52	21°8	14°0	13°56	21°59	6°23	25°50	14°55	17°25	18°8	19°28	19°16	21°12	W13
T 14	18 2 5	0♌37'18	6♌49	22°43	14°58	14°29	22°5	6°19	25°53	14°55	17°26	17°59	19°25	19°23	21°15	T 14
F 15	18 6 1	1°34'28	18°52	24°15	15°57	15°1	22°11	6°14	25°55	14°54	17°28	17°51	19°22	19°29	21°19	F 15
S 16	18 9 58	2°31'37	1♌2	25°45	16°55	15°34	22°17	6°10	25°58	14°54	17°29	17°43	19°19	19°36	21°23	S 16
S 17	18 13 54	3°28'47	13°20	27°12	17°55	16°6	22°23	6°5	26°0	14°54	17°30	17°37	19°16	19°43	21°27	S 17
M18	18 17 51	4°25'56	25°48	28°38	18°54	16°39	22°30	6°1	26°3	14°D54	17°32	17°33	19°12	19°50	21°32	M18
T 19	18 21 47	5°23'06	8♌27	0♍1	19°54	17°12	22°36	5°57	26°6	14°54	17°33	17°31	19°9	19°56	21°36	T 19
W20	18 25 44	6°20'16	21°18	1°21	20°54	17°45	22°43	5°52	26°8	14°54	17°35	17°D30	19°6	20°3	21°40	W20
T 21	18 29 41	7°17'26	4♌22	2°39	21°54	18°19	22°50	5°48	26°11	14°55	17°36	17°31	19°3	20°10	21°45	T 21
F 22	18 33 37	8°14'36	17°41	3°55	22°55	18°52	22°57	5°43	26°14	14°55	17°38	17°33	19°0	20°16	21°49	F 22
S 23	18 37 34	9°11'47	1°V17	5°8	23°56	19°26	23°4	5°39	26°17	14°55	17°40	17°34	18°57	20°23	21°54	S 23
S 24	18 41 30	10° 8'59	15°11	6°18	24°58	19°59	23°11	5°35	26°20	14°55	17°41	17°R34	18°53	20°30	21°59	S 24
M25	18 45 27	11° 6'11	29°22	7°26	25°59	20°33	23°19	5°30	26°22	14°55	17°43	17°33	18°50	20°37	22°3	M25
T 26	18 49 23	12° 3'23	13♌50	8°31	27°1	21°7	23°26	5°26	26°25	14°55	17°44	17°30	18°47	20°43	22°8	T 26
W27	18 53 20	13° 0'36	28°30	9°33	28°4	21°41	23°34	5°21	26°28	14°56	17°46	17°26	18°44	20°50	22°13	W27
T 28	18 57 16	13°57'50	13II16	10°33	29°6	22°15	23°42	5°17	26°31	14°56	17°48	17°21	18°41	20°57	22°19	T 28
F 29	19 1 13	14°55'04	28°1	11°29	0II9	22°50	23°49	5°13	26°34	14°56	17°49	17°16	18°38	21°4	22°24	F 29
S 30	19 5 10	15°52'19	12♌38	12♍22	1II12	23♍24	23♍57	5♌8	26♍37	14♌57	17♍51	17♍12	18♍34	21♍10	22♍29	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	22n59	18n43	4s22	25n20	1n50	9n58	2s45	9n39	1n0	4n50	1n22	22s40	0n39	13n47	0n44	4s18
S 2	23 4	19 53	3 34	25 23	1 53	10 13	2 47	9 26	0 59	4 48	1 22	22 40	0 39	13 46	0 44	4 18
S 3	23 8	19 41	2 32	25 23	1 56	10 29	2 50	9 14	0 58	4 46	1 22	22 40	0 39	13 46	0 44	4 18
M 4	23 12	18 14	1 23	25 22	1 57	10 44	2 52	9 1	0 57	4 44	1 21	22 40	0 39	13 45	0 44	4 18
T 5	23 16	15 45	0 10	25 17	1 59	11 0	2 54	8 48	0 56	4 42	1 21	22 41	0 39	13 44	0 44	4 18
W 6	23 19	12 32	1n0	25 11	1 59	11 16	2 56	8 35	0 54	4 40	1 21	22 41	0 39	13 43	0 44	4 18
T 7	23 22	8 48	2 5	25 2	1 59	11 32	2 57	8 22	0 53	4 38	1 21	22 41	0 39	13 43	0 44	4 18
F 8	23 25	4 47	3 3	24 51	1 58	11 48	2 59	8 9	0 52	4 36	1 20	22 42	0 39	13 42	0 44	4 18
S 9	23 27	0 40	3 51	24 39	1 56	12 4	3 0	7 56	0 51	4 34	1 20	22 42	0 38	13 41	0 44	4 18
S 10	23 28	3s25	4 28	24 24	1 54	12 21	3 1	7 43	0 50	4 31	1 20	22 42	0 38	13 40	0 44	4 18
M11	23 29	7 19	4 53	24 8	1 51	12 37	3 2	7 30	0 48	4 29	1 20	22 42	0 38	13 39	0 44	4 17
T 12	23 30	10 56	5 5	23 51	1 47	12 54	3 3	7 16	0 47	4 27	1 19	22 43	0 38	13 39	0 44	4 17
W13	23 30	14 7	5 5	23 32	1 43	13 10	3 3	7 3	0 46	4 24	1 19	22 43	0 38	13 38	0 44	4 17
T 14	23 30	16 44	4 51	23 12	1 38	13 27	3 4	6 49	0 45	4 22	1 19	22 43	0 38	13 37	0 44	4 17
F 15	23 30	18 40	4 24	22 51	1 33	13 43	3 4	6 36	0 44	4 19	1 19	22 44	0 38	13 36	0 44	4 17
S 16	23 29	19 46	3 44	22 28	1 27	13 59	3 4	6 22	0 43	4 16	1 19	22 44	0 38	13 35	0 44	4 17
S 17	23 28	19 57	2 54	22 5	1 20	14 16	3 5	6 8	0 42	4 14	1 18	22 44	0 38	13 34	0 44	4 17
M18	23 26	19 10	1 55	21 41	1 13	14 32	3 4	5 54	0 41	4 11	1 18	22 44	0 38	13 33	0 44	4 18
T 19	23 24	17 25	0 49	21 16	1 5	14 48	3 4	5 41	0 40	4 8	1 18	22 45	0 38	13 32	0 44	4 18
W20	23 21	14 46	0s21	20 51	0 57	15 4	3 4	5 27	0 38	4 5	1 18	22 45	0 38	13 31	0 44	4 18
T 21	23 18	11 20	1 30	20 25	0 49	15 21	3 3	5 13	0 37	4 2	1 18	22 45	0 38	13 30	0 44	4 18
F 22	23 15	7 17	2 37	19 58	0 40	15 36	3 3	4 58	0 36	3 59	1 17	22 46	0 37	13 29	0 44	4 18
S 23	23 11	2 47	3 35	19 31	0 30	15 52	3 2	4 44	0 35	3 56	1 17	22 46	0 37	13 28	0 44	4 18
S 24	23 7	1n57	4 23	19 4	0 20	16 8	3 1	4 30	0 34	3 53	1 17	22 46	0 37	13 28	0 43	4 18
M25	23 2	6 40	4 56	18 37	0 10	16 23	3 0	4 16	0 33	3 50	1 17	22 46	0 37	13 26	0 43	4 18
T 26	22 58	11 6	5 11	18 10	0s1	16 39	2 59	4 1	0 32	3 47	1 17	22 47	0 37	13 25	0 43	4 18
W27	22 52	14 55	5 5	17 43	0 12	16 54	2 58	3 47	0 31	3 44	1 16	22 47	0 37	13 24	0 43	4 18
T 28	22 46	17 49	4 40	17 16	0 24	17 9	2 57	3 32	0 30	3 41	1 16	22 47	0 37	13 23	0 43	4 19
F 29	22 40	19 33	3 56	16 49	0 36	17 23	2 55	3 18	0 29	3 37	1 16	22 48	0 37	13 22	0 43	4 19
S 30	22n34	19n58	2s57	16n22	0s48	17n38	2s54	3n3	0n28	3n34	1n16	22s48	0n37	13n21	0n43	4s19

Julian Day Number = 2254108.5, Delta T = 06m12s

Ecliptic obliquity = 23°30'27, Nutation = - 0°00'12, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°11'54, Lahiri = 16°18'55 Julian Calendar 1 June 1459 == Greg. Calendar 10 June 1459

ASTRODIENST EPHEMERIS for the year 1459

geocentric

JULY 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	19 9 6	16°49'34	26°59	13°11	2°11	23°59	24°16	5°R 4	26°40	14°57	17°53	17°R10	18°31	21°17	22°34	S 1
M 2	19 13 3	17°46'50	11°1	13°58	3°19	24°34	24°14	5°R 0	26°43	14°58	17°54	17°D 8	18°28	21°24	22°40	M 2
T 3	19 16 59	18°44'06	24°38	14°40	4°22	25° 8	24°22	4°56	26°47	14°58	17°56	17°R 9	18°25	21°30	22°45	T 3
W 4	19 20 56	19°41'22	7°11	15°19	5°26	25°43	24°31	4°51	26°50	14°59	17°58	17°10	18°22	21°37	22°51	W 4
T 5	19 24 52	20°38'38	20°42	15°55	6°31	26°18	24°39	4°47	26°53	14°59	18° 0	17°11	18°18	21°44	22°57	T 5
F 6	19 28 49	21°35'55	3°12	16°26	7°35	26°54	24°48	4°43	26°56	15° 0	18° 1	17°13	18°15	21°51	23° 2	F 6
S 7	19 32 45	22°33'12	15°26	16°52	8°39	27°29	24°57	4°39	26°59	15° 0	18° 3	17°14	18°12	21°57	23° 8	S 7
S 8	19 36 42	23°30'30	27°29	17°15	9°44	28° 4	25° 5	4°35	27° 3	15° 1	18° 5	17°R14	18° 9	22° 4	23°14	S 8
M 9	19 40 39	24°27'48	9°12	17°33	10°49	28°40	25°14	4°31	27° 6	15° 2	18° 7	17°13	18° 6	22°11	23°20	M 9
T 10	19 44 35	25°25'06	21°17	17°46	11°54	29°16	25°24	4°27	27° 9	15° 2	18° 8	17°11	18° 3	22°18	23°26	T 10
W11	19 48 32	26°22'25	3°12	17°55	13° 0	29°51	25°33	4°23	27°13	15° 3	18°10	17° 8	17°59	22°24	23°32	W11
T 12	19 52 28	27°19'45	15°12	17°R58	14° 5	0°12	25°42	4°19	27°16	15° 4	18°12	17° 5	17°56	22°31	23°39	T 12
F 13	19 56 25	28°17'05	27°21	17°57	15°11	1° 3	25°51	4°15	27°19	15° 4	18°14	17° 2	17°53	22°38	23°45	F 13
S 14	20 0 21	29°14'26	9°30	17°50	16°17	1°39	26° 1	4°12	27°23	15° 5	18°16	17° 0	17°50	22°44	23°51	S 14
S 15	20 4 18	0°11'47	22°12	17°38	17°23	2°16	26°10	4° 8	27°26	15° 6	18°18	16°58	17°47	22°51	23°58	S 15
M16	20 8 14	1° 9'10	4°57	17°21	18°29	2°52	26°20	4° 4	27°30	15° 7	18°19	16°57	17°43	22°58	24° 4	M16
T 17	20 12 11	2° 6'33	17°56	16°59	19°36	3°28	26°30	4° 0	27°33	15° 8	18°21	16°D56	17°40	23° 5	24°11	T 17
W18	20 16 8	3° 3'58	1°18	16°32	20°42	4° 5	26°40	3°57	27°37	15° 9	18°23	16°57	17°37	23°11	24°18	W18
T 19	20 20 4	4° 1'23	14°33	16° 1	21°49	4°41	26°50	3°53	27°40	15°10	18°25	16°58	17°34	23°18	24°24	T 19
F 20	20 24 1	4°58'50	28°11	15°25	22°56	5°18	27° 0	3°50	27°44	15°11	18°27	16°59	17°31	23°25	24°31	F 20
S 21	20 27 57	5°56'18	12°11	14°45	24° 3	5°55	27°10	3°47	27°47	15°12	18°29	17° 0	17°28	23°31	24°38	S 21
S 22	20 31 54	6°53'47	26° 1	14° 2	25°10	6°32	27°20	3°43	27°51	15°13	18°31	17° 0	17°24	23°38	24°45	S 22
M23	20 35 50	7°51'17	10°10	13°17	26°18	7° 9	27°30	3°40	27°54	15°14	18°33	17°R 0	17°21	23°45	24°52	M23
T 24	20 39 47	8°48'50	24°27	12°30	27°25	7°46	27°41	3°37	27°58	15°15	18°35	17° 0	17°18	23°52	24°59	T 24
W25	20 43 43	9°46'23	8°11	11°41	28°33	8°23	27°51	3°34	28° 1	15°16	18°36	16°59	17°15	23°58	25° 6	W25
T 26	20 47 40	10°43'58	23° 8	10°52	29°41	9° 1	28° 2	3°30	28° 5	15°17	18°38	16°59	17°12	24° 5	25°13	T 26
F 27	20 51 37	11°41'35	7°27	10° 5	0°49	9°38	28°13	3°28	28° 9	15°19	18°40	16°58	17° 9	24°12	25°20	F 27
S 28	20 55 33	12°39'13	21°37	9°18	1°57	10°16	28°23	3°25	28°12	15°20	18°42	16°58	17° 5	24°19	25°28	S 28
S 29	20 59 30	13°36'52	5°16	8°35	3° 5	10°53	28°34	3°22	28°16	15°21	18°44	16°57	17° 2	24°25	25°35	S 29
M30	21 3 26	14°34'33	19°19	7°54	4°13	11°31	28°45	3°19	28°20	15°22	18°46	16°D57	16°59	24°32	25°42	M30
T 31	21 7 23	15°32'15	2°14	7°19	5°22	12°19	28°56	3°16	28°23	15°24	18°48	16°57	16°56	24°39	25°50	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	22n27	19n 3	1s48	15n56	1s 1	17n52	2s52	2n49	0n27	3n31	1n16	22s48	0n37	13n20	0n43	4s19
M 2	22 19	16 59	0 34	15 31	1 13	18 6	2 50	2 34	0 26	3 27	1 15	22 48	0 36	13 19	0 43	4 19
T 3	22 12	13 59	0n41	15 6	1 26	18 19	2 48	2 19	0 25	3 24	1 15	22 49	0 36	13 18	0 43	4 20
W 4	22 3	10 22	1 51	14 42	1 39	18 32	2 46	2 4	0 24	3 20	1 15	22 49	0 36	13 17	0 43	4 20
T 5	21 55	6 21	2 54	14 19	1 53	18 45	2 44	1 50	0 23	3 17	1 15	22 49	0 36	13 16	0 43	4 20
F 6	21 46	2 11	3 46	13 57	2 6	18 58	2 42	1 35	0 22	3 13	1 15	22 49	0 36	13 15	0 43	4 20
S 7	21 37	1s59	4 27	13 36	2 20	19 10	2 40	1 20	0 21	3 9	1 15	22 50	0 36	13 14	0 43	4 21
S 8	21 27	6 0	4 56	13 17	2 33	19 22	2 38	1 5	0 20	3 6	1 14	22 50	0 36	13 12	0 43	4 21
M 9	21 17	9 45	5 11	12 58	2 47	19 34	2 36	0 50	0 19	3 2	1 14	22 50	0 36	13 11	0 43	4 21
T 10	21 7	13 5	5 14	12 42	3 0	19 45	2 33	0 35	0 18	2 58	1 14	22 50	0 36	13 10	0 43	4 22
W11	20 56	15 55	5 2	12 27	3 13	19 56	2 31	0 19	0 17	2 54	1 14	22 51	0 36	13 9	0 43	4 22
T 12	20 45	18 5	4 38	12 13	3 26	20 6	2 28	0 4	0 16	2 50	1 14	22 51	0 35	13 8	0 43	4 22
F 13	20 34	19 29	4 0	12 2	3 38	20 16	2 25	0s11	0 16	2 47	1 14	22 51	0 35	13 7	0 43	4 23
S 14	20 22	19 58	3 11	11 53	3 50	20 26	2 23	0 26	0 15	2 43	1 13	22 51	0 35	13 5	0 43	4 23
S 15	20 10	19 30	2 12	11 46	4 1	20 35	2 20	0 41	0 14	2 39	1 13	22 51	0 35	13 4	0 43	4 23
M16	19 58	18 1	1 6	11 41	4 12	20 44	2 17	0 57	0 13	2 35	1 13	22 52	0 35	13 3	0 43	4 24
T 17	19 45	15 35	0s 5	11 38	4 21	20 52	2 14	1 12	0 12	2 31	1 13	22 52	0 35	13 2	0 43	4 24
W18	19 32	12 19	1 18	11 38	4 30	21 0	2 11	1 27	0 11	2 27	1 13	22 52	0 35	13 1	0 43	4 25
T 19	19 18	8 21	2 27	11 40	4 37	21 7	2 8	1 43	0 10	2 22	1 13	22 52	0 35	12 59	0 43	4 25
F 20	19 5	3 55	3 29	11 45	4 43	21 14	2 5	1 58	0 9	2 18	1 12	22 53	0 35	12 58	0 43	4 25
S 21	18 50	0n47	4 20	11 52	4 47	21 20	2 2	2 14	0 8	2 14	1 12	22 53	0 34	12 57	0 43	4 26
S 22	18 36	5 29	4 56	12 2	4 50	21 26	1 59	2 29	0 7	2 10	1 12	22 53	0 34	12 56	0 43	4 26
M23	18 21	9 56	5 14	12 14	4 51	21 31	1 56	2 45	0 7	2 6	1 12	22 53	0 34	12 54	0 43	4 27
T 24	18 6	13 52	5 14	12 27	4 50	21 36	1 53	3 0	0 6	2 1	1 12	22 53	0 34	12 53	0 43	4 27
W25	17 51	16 59	4 54	12 43	4 48	21 41	1 49	3 16	0 5	1 57	1 12	22 54	0 34	12 52	0 43	4 28
T 26	17 36	19 4	4 16	13 0	4 44	21 44	1 46	3 31	0 4	1 53	1 12	22 54	0 34	12 51	0 43	4 28
F 27	17 20	19 56	3 22	13 19	4 37	21 48	1 43	3 47	0 3	1 48	1 11	22 54	0 34	12 49	0 43	4 29
S 28	17 4	19 32	2 16	13 39	4 29	21 50	1 39	4 2	0 2	1 44	1 11	22 54	0 34	12 48	0 43	4 29
S 29	16 47	17 55	1 3	13 59	4 20	21 52	1 36	4 18	0 1	1 40	1 11	22 54	0 33	12 47	0 43	4 30
M30	16 30	15 17	0n13	14 21	4 8	21 54	1 33	4 34	0 1	1 35	1 11	22 55	0 33	12 46	0 43	4 30
T 31	16n13	11n52	1n26	14n42	3s55	21n55	1s29	4s49	0s 0	1n31	1n11	22s55	0n33	12n44	0n43	4s31

Julian Day Number = 2254138.5, Delta T = 06m12s

Ecliptic obliquity = 23°30'27", Nutation = - 0°00'11", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°11'58", Lahiri = 16°18'59" Julian Calendar 1 July 1459 == Greg. Calendar 10 July 1459

ASTRODIENST EPHEMERIS for the year 1459

geocentric

AUGUST 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	21 11 19	16°29'58	15°51	6°R48	6°531	12°47	29°7	3°R14	28°27	15°25	18°50	16°R57	16°53	24°45	25°57	W 1
T 2	21 15 16	17°27'42	28°38	6°23	7°39	13°25	29°18	3°11	28°31	15°26	18°52	16°57	16°49	24°52	26° 5	T 2
F 3	21 19 12	18°25'27	11°8	6° 4	8°48	14° 3	29°29	3° 9	28°34	15°28	18°54	16°57	16°46	24°59	26°12	F 3
S 4	21 23 9	19°23'14	23°23	5°53	9°57	14°41	29°40	3° 6	28°38	15°29	18°56	16°57	16°43	25° 6	26°20	S 4
S 5	21 27 6	20°21'02	5°27	5°D48	11° 6	15°20	29°52	3° 4	28°42	15°31	18°58	16°57	16°40	25°12	26°28	S 5
M 6	21 31 2	21°18'51	17°23	5°51	12°16	15°58	0°3	3° 2	28°46	15°32	19° 0	16°D57	16°37	25°19	26°35	M 6
T 7	21 34 59	22°16'41	29°16	6° 2	13°25	16°37	0°14	3° 0	28°49	15°33	19° 2	16°57	16°34	25°26	26°43	T 7
W 8	21 38 55	23°14'33	11°11	6°21	14°34	17°15	0°26	2°58	28°53	15°35	19° 3	16°57	16°30	25°32	26°51	W 8
T 9	21 42 52	24°12'26	23°13	6°48	15°44	17°54	0°37	2°56	28°57	15°37	19° 5	16°58	16°27	25°39	26°59	T 9
F 10	21 46 48	25°10'20	5°24	7°22	16°54	18°33	0°49	2°54	29° 1	15°38	19° 7	16°58	16°24	25°46	27° 7	F 10
S 11	21 50 45	26° 8'15	17°50	8° 4	18° 4	19°12	1° 1	2°52	29° 4	15°40	19° 9	16°59	16°21	25°53	27°15	S 11
S 12	21 54 41	27° 6'12	0°32	8°54	19°13	19°51	1°12	2°50	29° 8	15°41	19°11	17° 0	16°18	25°59	27°23	S 12
M13	21 58 38	28° 4'11	13°33	9°51	20°24	20°30	1°24	2°49	29°12	15°43	19°13	17°R 0	16°15	26° 6	27°31	M13
T14	22 2 35	29° 2'11	26°52	10°55	21°34	21° 9	1°36	2°47	29°16	15°45	19°15	17° 0	16°11	26°13	27°39	T14
W15	22 6 31	0°12	10°29	12° 5	22°44	21°48	1°48	2°46	29°19	15°46	19°17	17° 0	16° 8	26°20	27°47	W15
T16	22 10 28	0°58'16	24°22	13°22	23°54	22°27	2° 0	2°44	29°23	15°48	19°19	16°58	16° 5	26°26	27°55	T16
F17	22 14 24	1°56'21	8°26	14°44	25° 5	23° 7	2°12	2°43	29°27	15°50	19°21	16°56	16° 2	26°33	28° 3	F17
S18	22 18 21	2°54'28	22°39	16°12	26°15	23°46	2°24	2°42	29°31	15°51	19°23	16°54	15°59	26°40	28°12	S18
S19	22 22 17	3°52'36	6°57	17°44	27°26	24°26	2°36	2°41	29°34	15°53	19°24	16°53	15°55	26°46	28°20	S19
M20	22 26 14	4°50'48	21°14	19°20	28°37	25° 6	2°48	2°40	29°38	15°55	19°26	16°51	15°52	26°53	28°28	M20
T21	22 30 10	5°49'01	5°29	21° 1	29°48	25°45	3° 0	2°39	29°42	15°57	19°28	16°D51	15°49	27° 0	28°36	T21
W22	22 34 7	6°47'16	19°39	22°44	0°59	26°25	3°12	2°38	29°46	15°58	19°30	16°51	15°46	27° 7	28°45	W22
T23	22 38 4	7°45'33	3°34	24°30	2°10	27° 5	3°25	2°38	29°49	16° 0	19°32	16°52	15°43	27°13	28°53	T23
F24	22 42 0	8°43'53	17°34	26°18	3°21	27°45	3°37	2°37	29°53	16° 2	19°34	16°54	15°40	27°20	29° 2	F24
S25	22 45 57	9°42'15	1°17	28° 8	4°32	28°25	3°49	2°37	29°57	16° 4	19°36	16°55	15°36	27°27	29°10	S25
S26	22 49 53	10°40'38	14°49	29°59	5°44	29° 6	4° 2	2°36	0°1	16° 6	19°37	16°R56	15°33	27°33	29°19	S26
M27	22 53 50	11°39'04	28° 9	1°52	6°55	29°46	4°14	2°36	0° 4	16° 8	19°39	16°55	15°30	27°40	29°27	M27
T28	22 57 46	12°37'31	11°15	3°45	8° 7	0°26	4°27	2°36	0° 8	16°10	19°41	16°54	15°27	27°47	29°36	T28
W29	23 1 43	13°36'00	24° 7	5°39	9°18	1° 7	4°39	2°D36	0°12	16°12	19°43	16°51	15°24	27°54	29°44	W29
T30	23 5 39	14°34'32	6°45	7°32	10°30	1°47	4°52	2°36	0°15	16°14	19°45	16°46	15°21	28° 0	29°53	T30
F31	23 9 36	15°33'05	19°10	9°26	11°42	2°28	5°4	2°36	0°19	16°16	19°46	16°42	15°17	28°11	0°1	F31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	15n56	7n57	2n33	15n 3	3s41	21n55	1s26	5s 5	0s 1	1n26	1n11	22s55	0n33	12n43	0n43	4s31
T 2	15 39	3 46	3 31	15 24	3 26	21 55	1 22	5 20	0 2	1 22	1 11	22 55	0 33	12 42	0 43	4 32
F 3	15 21	0s28	4 17	15 44	3 10	21 54	1 19	5 36	0 3	1 17	1 11	22 55	0 33	12 40	0 43	4 33
S 4	15 3	4 36	4 51	16 3	2 53	21 53	1 15	5 52	0 4	1 12	1 10	22 56	0 33	12 39	0 43	4 33
S 5	14 45	8 29	5 11	16 21	2 36	21 51	1 12	6 7	0 4	1 8	1 10	22 56	0 33	12 38	0 43	4 34
M 6	14 26	12 0	5 17	16 38	2 18	21 49	1 8	6 23	0 5	1 3	1 10	22 56	0 32	12 36	0 43	4 34
T 7	14 8	15 1	5 10	16 52	2 0	21 46	1 5	6 38	0 6	0 59	1 10	22 56	0 32	12 35	0 43	4 35
W 8	13 49	17 25	4 49	17 5	1 42	21 42	1 1	6 54	0 7	0 54	1 10	22 56	0 32	12 34	0 43	4 36
T 9	13 29	19 5	4 16	17 16	1 25	21 38	0 57	7 9	0 7	0 49	1 10	22 56	0 32	12 33	0 43	4 36
F 10	13 10	19 53	3 31	17 24	1 7	21 33	0 54	7 25	0 8	0 44	1 10	22 57	0 32	12 31	0 43	4 37
S 11	12 50	19 46	2 35	17 29	0 50	21 27	0 50	7 41	0 9	0 40	1 10	22 57	0 32	12 30	0 43	4 37
S 12	12 31	18 38	1 30	17 32	0 34	21 21	0 47	7 56	0 10	0 35	1 10	22 57	0 32	12 29	0 43	4 38
M13	12 11	16 30	0 19	17 32	0 18	21 15	0 43	8 12	0 11	0 30	1 9	22 57	0 32	12 27	0 43	4 39
T14	11 51	13 26	0s54	17 30	0 3	21 7	0 40	8 27	0 11	0 25	1 9	22 57	0 31	12 26	0 43	4 39
W15	11 30	9 36	2 6	17 24	0n11	20 59	0 36	8 42	0 12	0 21	1 9	22 57	0 31	12 25	0 43	4 40
T16	11 10	5 11	3 12	17 15	0 25	20 51	0 33	8 58	0 13	0 16	1 9	22 58	0 31	12 23	0 43	4 41
F17	10 49	0 26	4 7	17 3	0 37	20 42	0 29	9 13	0 14	0 11	1 9	22 58	0 31	12 22	0 43	4 41
S18	10 28	4n23	4 48	16 48	0 49	20 32	0 26	9 29	0 14	0 6	1 9	22 58	0 31	12 21	0 43	4 42
S19	10 7	8 59	5 11	16 30	0 59	20 22	0 22	9 44	0 15	0 1	1 9	22 58	0 31	12 19	0 43	4 43
M20	9 46	13 4	5 14	16 9	1 8	20 11	0 19	9 59	0 16	0s 4	1 9	22 58	0 31	12 18	0 43	4 44
T21	9 24	16 23	4 59	15 45	1 17	20 0	0 15	10 14	0 17	0 9	1 9	22 58	0 31	12 17	0 43	4 44
W22	9 3	18 42	4 25	15 18	1 24	19 48	0 12	10 30	0 17	0 14	1 9	22 58	0 30	12 15	0 43	4 45
T23	8 41	19 51	3 36	14 49	1 30	19 36	0 8	10 45	0 18	0 19	1 9	22 59	0 30	12 14	0 43	4 46
F24	8 19	19 48	2 35	14 17	1 36	19 23	0 5	11 0	0 19	0 24	1 9	22 59	0 30	12 13	0 43	4 47
S25	7 57	18 33	1 25	13 43	1 40	19 9	0 2	11 15	0 19	0 29	1 8	22 59	0 30	12 12	0 43	4 47
S26	7 35	16 15	0 12	13 7	1 44	18 55	0n 1	11 30	0 20	0 34	1 8	22 59	0 30	12 10	0 43	4 48
M27	7 13	13 7	1n 1	12 29	1 46	18 40	0 5	11 45	0 21	0 39	1 8	22 59	0 30	12 9	0 43	4 49
T28	6 50	9 22	2 10	11 50	1 48	18 25	0 8	12 0	0 22	0 44	1 8	22 59	0 30	12 8	0 43	4 50
W29	6 28	5 15	3 10	11 9	1 49	18 9	0 11	12 15	0 22	0 49	1 8	22 59	0 30	12 6	0 43	4 50
T30	6 5	0 59	4 0	10 27	1 49	17 53	0 14	12 29	0 23	0 54	1 8	23 0	0 29	12 5	0 43	4 51
F31	5n43	3s15	4n37	9n44	1n48	17n36	0n17	12s44	0s24	0s59	1n 8	23s 0	0n29	12n 4	0n43	4s52

Julian Day Number = 2254169.5, Delta T = 06m12s
 Ecliptic obliquity = 23°30'28", Nutation = - 0°00'11", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 17°12'02", Lahiri = 16°19'03" Julian Calendar 1 Aug. 1459 == Greg. Calendar 10 Aug. 1459

ASTRODIENST EPHEMERIS for the year 1459

geocentric

SEPTEMBER 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 13 32	16 ¹¹ 31'39	1 ¹¹ 22	11 ¹¹ 19	12 ¹¹ 54	3 ¹¹ 9	5 ¹¹ 17	2 ¹¹ 36	0 ¹¹ 23	16 ¹¹ 18	19 ¹¹ 48	16 ¹¹ R37	15 ¹¹ 14	28 ¹¹ 14	0 ¹¹ 10	S 1
S 2	23 17 29	17 ¹¹ 30'16	13 ¹¹ 24	13 ¹¹ 12	14 ¹¹ 6	3 ¹¹ 50	5 ¹¹ 30	2 ¹¹ 37	0 ¹¹ 26	16 ¹¹ 20	19 ¹¹ 50	16 ¹¹ 12	15 ¹¹ 11	28 ¹¹ 21	0 ¹¹ 18	S 2
M 3	23 21 26	18 ¹¹ 28'54	25 ¹¹ 19	15 ¹¹ 4	15 ¹¹ 18	4 ¹¹ 31	5 ¹¹ 42	2 ¹¹ 37	0 ¹¹ 30	16 ¹¹ 22	19 ¹¹ 52	16 ¹¹ 28	15 ¹¹ 8	28 ¹¹ 27	0 ¹¹ 27	M 3
T 4	23 25 22	19 ¹¹ 27'34	7 ¹¹ 11	16 ¹¹ 55	16 ¹¹ 30	5 ¹¹ 11	5 ¹¹ 55	2 ¹¹ 37	0 ¹¹ 34	16 ¹¹ 24	19 ¹¹ 54	16 ¹¹ 26	15 ¹¹ 5	28 ¹¹ 34	0 ¹¹ 36	T 4
W 5	23 29 19	20 ¹¹ 26'16	19 ¹¹ 4	18 ¹¹ 46	17 ¹¹ 42	5 ¹¹ 53	6 ¹¹ 8	2 ¹¹ 38	0 ¹¹ 37	16 ¹¹ 26	19 ¹¹ 55	16 ¹¹ D25	15 ¹¹ 1	28 ¹¹ 41	0 ¹¹ 44	W 5
T 6	23 33 15	21 ¹¹ 25'00	1 ¹¹ 4	20 ¹¹ 36	18 ¹¹ 55	6 ¹¹ 34	6 ¹¹ 20	2 ¹¹ 39	0 ¹¹ 41	16 ¹¹ 28	19 ¹¹ 57	16 ¹¹ 26	14 ¹¹ 58	28 ¹¹ 47	0 ¹¹ 53	T 6
F 7	23 37 12	22 ¹¹ 23'45	13 ¹¹ 14	22 ¹¹ 25	20 ¹¹ 7	7 ¹¹ 15	6 ¹¹ 33	2 ¹¹ 40	0 ¹¹ 44	16 ¹¹ 30	19 ¹¹ 59	16 ¹¹ 27	14 ¹¹ 55	28 ¹¹ 54	1 ¹¹ 2	F 7
S 8	23 41 8	23 ¹¹ 22'32	25 ¹¹ 41	24 ¹¹ 14	21 ¹¹ 19	7 ¹¹ 56	6 ¹¹ 46	2 ¹¹ 40	0 ¹¹ 48	16 ¹¹ 32	20 ¹¹ 0	16 ¹¹ 29	14 ¹¹ 52	29 ¹¹ 1	1 ¹¹ 10	S 8
S 9	23 45 5	24 ¹¹ 21'21	8 ¹¹ 27	26 ¹¹ 1	22 ¹¹ 32	8 ¹¹ 38	6 ¹¹ 59	2 ¹¹ 41	0 ¹¹ 51	16 ¹¹ 34	20 ¹¹ 2	16 ¹¹ 30	14 ¹¹ 49	29 ¹¹ 8	1 ¹¹ 19	S 9
M10	23 49 1	25 ¹¹ 20'12	21 ¹¹ 36	27 ¹¹ 48	23 ¹¹ 45	9 ¹¹ 19	7 ¹¹ 12	2 ¹¹ 43	0 ¹¹ 55	16 ¹¹ 36	20 ¹¹ 4	16 ¹¹ R30	14 ¹¹ 46	29 ¹¹ 14	1 ¹¹ 28	M10
T 11	23 52 58	26 ¹¹ 19'04	5 ¹¹ 9	29 ¹¹ 33	24 ¹¹ 57	10 ¹¹ 1	7 ¹¹ 25	2 ¹¹ 44	0 ¹¹ 58	16 ¹¹ 38	20 ¹¹ 5	16 ¹¹ 29	14 ¹¹ 42	29 ¹¹ 21	1 ¹¹ 37	T 11
W12	23 56 55	27 ¹¹ 17'59	19 ¹¹ 7	1 ¹¹ 18	26 ¹¹ 10	10 ¹¹ 42	7 ¹¹ 37	2 ¹¹ 45	1 ¹¹ 2	16 ¹¹ 40	20 ¹¹ 7	16 ¹¹ 25	14 ¹¹ 39	29 ¹¹ 28	1 ¹¹ 45	W12
T 13	0 0 51	28 ¹¹ 16'55	3 ¹¹ 24	3 ¹¹ 2	27 ¹¹ 23	11 ¹¹ 24	7 ¹¹ 50	2 ¹¹ 46	1 ¹¹ 5	16 ¹¹ 43	20 ¹¹ 8	16 ¹¹ 20	14 ¹¹ 36	29 ¹¹ 34	1 ¹¹ 54	T 13
F 14	0 4 48	29 ¹¹ 15'53	17 ¹¹ 58	4 ¹¹ 45	28 ¹¹ 36	12 ¹¹ 6	8 ¹¹ 3	2 ¹¹ 48	1 ¹¹ 9	16 ¹¹ 45	20 ¹¹ 10	16 ¹¹ 14	14 ¹¹ 33	29 ¹¹ 41	2 ¹¹ 3	F 14
S 15	0 8 44	0 ¹¹ 14'54	2 ¹¹ 39	6 ¹¹ 27	29 ¹¹ 49	12 ¹¹ 48	8 ¹¹ 16	2 ¹¹ 49	1 ¹¹ 12	16 ¹¹ 47	20 ¹¹ 12	16 ¹¹ 7	14 ¹¹ 30	29 ¹¹ 48	2 ¹¹ 12	S 15
S 16	0 12 41	1 ¹¹ 13'57	17 ¹¹ 21	8 ¹¹ 8	1 ¹¹ 2	13 ¹¹ 29	8 ¹¹ 29	2 ¹¹ 51	1 ¹¹ 16	16 ¹¹ 49	20 ¹¹ 13	16 ¹¹ 1	14 ¹¹ 26	29 ¹¹ 55	2 ¹¹ 20	S 16
M17	0 16 37	2 ¹¹ 13'02	1 ¹¹ 58	9 ¹¹ 48	2 ¹¹ 15	14 ¹¹ 11	8 ¹¹ 42	2 ¹¹ 53	1 ¹¹ 19	16 ¹¹ 51	20 ¹¹ 15	15 ¹¹ 56	14 ¹¹ 23	0 ¹¹ 1 1	2 ¹¹ 29	M17
T 18	0 20 34	3 ¹¹ 12'10	16 ¹¹ 23	11 ¹¹ 28	3 ¹¹ 28	14 ¹¹ 54	8 ¹¹ 55	2 ¹¹ 55	1 ¹¹ 22	16 ¹¹ 53	20 ¹¹ 16	15 ¹¹ 52	14 ¹¹ 20	0 ¹¹ 8	2 ¹¹ 38	T 18
W19	0 24 30	4 ¹¹ 11'20	0 ¹¹ 33	13 ¹¹ 6	4 ¹¹ 41	15 ¹¹ 36	9 ¹¹ 8	2 ¹¹ 57	1 ¹¹ 26	16 ¹¹ 56	20 ¹¹ 18	15 ¹¹ D51	14 ¹¹ 17	0 ¹¹ 15	2 ¹¹ 47	W19
T 20	0 28 27	5 ¹¹ 10'32	14 ¹¹ 27	14 ¹¹ 44	5 ¹¹ 55	16 ¹¹ 18	9 ¹¹ 21	2 ¹¹ 59	1 ¹¹ 29	16 ¹¹ 58	20 ¹¹ 19	15 ¹¹ 51	14 ¹¹ 14	0 ¹¹ 21	2 ¹¹ 55	T 20
F 21	0 32 24	6 ¹¹ 9'47	28 ¹¹ 4	16 ¹¹ 21	7 ¹¹ 8	17 ¹¹ 0	9 ¹¹ 34	3 ¹¹ 1	1 ¹¹ 32	17 ¹¹ 0	20 ¹¹ 21	15 ¹¹ 52	14 ¹¹ 11	0 ¹¹ 28	3 ¹¹ 4	F 21
S 22	0 36 20	7 ¹¹ 9'04	11 ¹¹ 27	17 ¹¹ 58	8 ¹¹ 22	17 ¹¹ 43	9 ¹¹ 47	3 ¹¹ 3	1 ¹¹ 35	17 ¹¹ 2	20 ¹¹ 22	15 ¹¹ R53	14 ¹¹ 7	0 ¹¹ 35	3 ¹¹ 13	S 22
S 23	0 40 17	8 ¹¹ 8'23	24 ¹¹ 36	19 ¹¹ 33	9 ¹¹ 35	18 ¹¹ 25	10 ¹¹ 0	3 ¹¹ 6	1 ¹¹ 39	17 ¹¹ 4	20 ¹¹ 24	15 ¹¹ 53	14 ¹¹ 4	0 ¹¹ 42	3 ¹¹ 22	S 23
M24	0 44 13	9 ¹¹ 7'44	7 ¹¹ 33	21 ¹¹ 8	10 ¹¹ 49	19 ¹¹ 8	10 ¹¹ 13	3 ¹¹ 8	1 ¹¹ 42	17 ¹¹ 7	20 ¹¹ 25	15 ¹¹ 51	14 ¹¹ 1	0 ¹¹ 48	3 ¹¹ 30	M24
T 25	0 48 10	10 ¹¹ 7'08	20 ¹¹ 19	22 ¹¹ 42	12 ¹¹ 2	20 ¹¹ 50	10 ¹¹ 26	3 ¹¹ 10	1 ¹¹ 45	17 ¹¹ 9	20 ¹¹ 26	15 ¹¹ 46	13 ¹¹ 58	0 ¹¹ 55	3 ¹¹ 39	T 25
W26	0 52 6	11 ¹¹ 6'34	2 ¹¹ 53	24 ¹¹ 15	13 ¹¹ 16	20 ¹¹ 33	10 ¹¹ 39	3 ¹¹ 13	1 ¹¹ 48	17 ¹¹ 11	20 ¹¹ 28	15 ¹¹ 39	13 ¹¹ 55	1 ¹¹ 2	3 ¹¹ 48	W26
T 27	0 56 3	12 ¹¹ 6'02	15 ¹¹ 18	25 ¹¹ 48	14 ¹¹ 30	21 ¹¹ 16	10 ¹¹ 52	3 ¹¹ 16	1 ¹¹ 51	17 ¹¹ 13	20 ¹¹ 29	15 ¹¹ 29	13 ¹¹ 52	1 ¹¹ 8	3 ¹¹ 57	T 27
F 28	0 59 59	13 ¹¹ 5'32	27 ¹¹ 33	27 ¹¹ 20	15 ¹¹ 44	21 ¹¹ 59	11 ¹¹ 5	3 ¹¹ 19	1 ¹¹ 54	17 ¹¹ 16	20 ¹¹ 30	15 ¹¹ 18	13 ¹¹ 48	1 ¹¹ 15	4 ¹¹ 5	F 28
S 29	1 3 56	14 ¹¹ 5'04	9 ¹¹ 39	28 ¹¹ 51	16 ¹¹ 58	22 ¹¹ 42	11 ¹¹ 18	3 ¹¹ 21	1 ¹¹ 57	17 ¹¹ 18	20 ¹¹ 32	15 ¹¹ 7	13 ¹¹ 45	1 ¹¹ 22	4 ¹¹ 14	S 29
S 30	1 7 52	15 ¹¹ 4'38	21 ¹¹ 37	0 ¹¹ 22	18 ¹¹ 11	23 ¹¹ 25	11 ¹¹ 31	3 ¹¹ 24	2 ¹¹ 0 0	17 ¹¹ 20	20 ¹¹ 33	14 ¹¹ 56	13 ¹¹ 42	1 ¹¹ 29	4 ¹¹ 23	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
S 1	5n20	7s16	5n 1	9n 0	1n47	17n19	0n21	12s59	0s24	1s 4	1n 8	23s 0	0n29	12n 2	0n43	4s53	1n41	24n25	10n 3	15n54	16n19	14s56	2s22	2s30			
S 2	4 57	10 57	5 12	8 15	1 46	17 1	0 24	13 13	0 25	1 9	1 8	23 0	0 29	12 1	0 43	4 53	1 41	24 25	10 3	15 56	16 20	14 58	2 25	2 30			
M 3	4 34	14 9	5 8	7 29	1 43	16 43	0 27	13 28	0 26	1 14	1 8	23 0	0 29	12 0	0 43	4 54	1 41	24 24	10 3	15 57	16 21	14 59	2 28	2 30			
T 4	4 11	16 46	4 52	6 43	1 40	16 24	0 29	13 42	0 26	1 19	1 8	23 0	0 29	11 59	0 43	4 55	1 41	24 24	10 3	15 57	16 22	15 1	2 31	2 30			
W 5	3 48	18 41	4 23	5 57	1 37	16 5	0 32	13 57	0 27	1 24	1 8	23 0	0 29	11 57	0 43	4 56	1 41	24 24	10 3	15 58	16 23	15 2	2 34	2 29			
T 6	3 25	19 48	3 42	5 10	1 33	15 45	0 35	14 11	0 28	1 29	1 8	23 0	0 29	11 56	0 43	4 57	1 40	24 23	10 4	15 57	16 23	15 4	2 38	2 29			
F 7	3 2	20 0	2 51	4 23	1 29	15 25	0 38	14 25	0 28	1 34	1 8	23 0	0 28	11 55	0 43	4 57	1 40	24 23	10 4	15 57	16 24	15 6	2 41	2 29			
S 8	2 38	19 15	1 51	3 36	1 25	15 5	0 41	14 39	0 29	1 40	1 8	23 1	0 28	11 54	0 43	4 58	1 40	24 23	10 4	15 57	16 25	15 7	2 44	2 28			
S 9	2 15	17 30	0 44	2 49	1 20	14 44	0 43	14 53	0 30	1 45	1 8	23 1	0 28	11 52	0 43	4 59	1 40	24 22	10 4	15 56	16 26	15 9	2 47	2 28			
M10	1 52	14 47	0s28	2 1	1 15	14 22	0 46	15 7	0 30	1 50	1 8	23 1	0 28	11 51	0 43	5 0	1 40	24 22	10 5	15 56	16 27	15 11	2 50	2 28			
T 11	1 28	11 11	1 40	1 14	1 9	14 0	0 49	15 21	0 31	1 55	1 8	23 1	0 28	11 50	0 43	5 1	1 40	24 22	10 5	15 57	16 28	15 12	2 54	2 27			
W12	1 5	6 53	2 47	0 27	1 4	13 38	0 51	15 35	0 32	2 0	1 8	23 1	0 28	11 49	0 43	5 2	1 40	24 21	10 5	15 58	16 29	15 14	2 57	2 27			
T 13	0 41	2 6	3 46	0s19	0 58	13 15	0 53	15 48	0 32	2 5	1 7	23 1	0 28	11 47	0 43	5 2	1 40	24 21	10 5	15 59	16 30	15 16	3 0	2 27			
F 14	0 18	2n53	4 32	1 6	0 52	12 52	0 56	16 2	0 33	2 10	1 7	23 1	0 28	11 46	0 43	5 3	1 40	24 21	10 6	16 1	16 31	15 17	3 3	2 26			
S 15	0s 6	7 44	5 0	1 52	0 46	12 29	0 58	16 15	0 33	2 15	1 7	23 1	0 27	11 45	0 43	5 4	1 40	24 20	10 6	16 3	16 32	15 19	3 7	2 26			
S 16	0 29	12 8	5 8	2 38	0 39	12 5	1 0	16 29	0 34	2 21	1 7	23 1	0 27	11 44	0 43	5 5	1 40	24 20	10 6	16 5	16 33	15 20	3 10	2 26			
M17	0 53	15 46	4 56	3 23	0 33	11 41	1 3	16 42	0 35	2 26	1 7	23 1	0 27	11 43	0 43	5 6	1 40	24 20	10 6	16 7	16 34	15 22	3 13	2 26			
T 18	1 17	18 24	4 26	4 9	0 26	11 16	1 5	16 55	0 35	2 31	1 7	23 2	0 27	11 41	0 43	5 7	1 40	24 20	10 7	16 7	16 35	15 24	3 16	2 25			
W19	1 40	19 51	3 40	4 53	0 20	10 51	1 7	17 8	0 36	2 36	1 7	23 2	0 27	11 40	0 43	5 7	1 40	24 19	10 7	16 8	16 36	15 25	3 19	2 25			
T 20	2 4	20 3	2 41	5 38	0 13	10 26	1 9	17 21	0 36	2 41	1 7	23 2	0 27	11 39	0 43	5 8	1 40	24 19	10 7	16 8	16 36	15 27	3 23	2 25			
F 21	2 27	19 4	1 34	6 21	0 6	10 1	1 11	17 33	0 37	2 46	1 7	23 2	0 27	11 38	0 43	5 9	1 40	24 19	10 7	16 7	16 37	15 28	3 26	2 25			
S 22	2 51	17 1	0 24	7 5	0s 1	9 35	1 13	17 46	0 38	2 51	1 7	23 2	0 27	11 37	0 43	5 10	1 40	24 19	10 8	16 7	16 38	15 30	3 29	2 24			
S 23	3 14	14 5	0n47	7 48	0 8	9 9	1 14	17 58	0 38	2 57	1 7	23 2	0 26	11 36	0 43	5 11	1 40	24 19	10 8	16 7	16 39	15 32	3 32	2 24			
M24	3 38	10 31	1 54	8 30	0 15	8 42	1 16	18 11	0 39	3 2	1 7	23 2	0 26	11 35	0 43	5 12	1 40	24 18	10 8	16 8	16 40	15 33	3 36	2 24			
T 25	4 1	6 31	2 54	9 12	0 22	8 16	1 18	18 23	0 39	3 7	1 7	23 2	0 26	11 34	0 43	5 13	1 40	24 18	10 9	16 9	16 41	15 35	3 39	2 24			
W26	4 24	2 16	3 44	9 53	0 29	7 49	1 19	18 35	0 40	3 12	1 7	23 2	0 26	11 32	0 44	5 13	1 40	24 18	10 9	16 12	16 42	15 36	3 42	2 23			
T 27	4 48	2s 0	4 23	10 33	0 36	7 22	1 21	18 47	0 40	3 17	1 7	23 2	0 26	11 31	0 44	5 14	1 40	24 18	10 9	16 14	16 43	15 38	3 46	2 23			
F 28	5 11	6 7	4 49	11 13	0 43	6 55	1 22	18 58	0 41	3 22	1 7	23 2	0 26	11 30	0 44	5 15	1 40	24 18	10 9	16 18	16 44	15 40	3 49	2 23			
S 29	5 34	9 58	5 2	11 52	0 50	6 27	1 24	19 10	0 42	3 27	1 7	23 2	0 26	11 29	0 44	5 16	1 40	24 18	10 10	16 21	16 45	15 41	3 52	2 23			
S 30	5s57	13s22	5n 2	12s31	0s56	5n59	1n25	19s22	0s42	3s32	1n 7	23s 2	0n26	11n28	0n44	5s17	1n40	24n17	10n10	16n24	16n46	15s43	3s55	2s22			

ASTRODIENST EPHEMERIS for the year 1459

geocentric

OCTOBER 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	1 11 49	16♌ 4'14	3♊29	1♉52	19♏25	24♌ 8	11♌44	3♊27	2♏ 3	17♌22	20♏34	14°R46	13♏39	1♊35	4♌31	M 1
T 2	1 15 46	17° 3'52	15°19	3°21	20°39	24°51	11°57	3°31	2° 6	17°25	20°35	14♏39	13°36	1°42	4°40	T 2
W 3	1 19 42	18° 3'31	27°10	4°50	21°54	25°34	12°10	3°34	2° 9	17°27	20°37	14°34	13°32	1°49	4°49	W 3
T 4	1 23 39	19° 3'13	9♊ 7	6°17	23° 8	26°17	12°23	3°37	2°12	17°29	20°38	14°32	13°29	1°55	4°57	T 4
F 5	1 27 35	20° 2'56	21°13	7°45	24°22	27° 1	12°36	3°41	2°15	17°31	20°39	14°D31	13°26	2° 2	5° 6	F 5
S 6	1 31 32	21° 2'41	3♊35	9°11	25°36	27°44	12°49	3°44	2°18	17°34	20°40	14°32	13°23	2° 9	5°14	S 6
S 7	1 35 28	22° 2'27	16°18	10°37	26°50	28°28	13° 2	3°48	2°20	17°36	20°41	14°R32	13°20	2°16	5°23	S 7
M 8	1 39 25	23° 2'16	29°26	12° 2	28° 5	29°11	13°15	3°51	2°23	17°38	20°42	14°31	13°17	2°22	5°32	M 8
T 9	1 43 21	24° 2'06	13♊ 3	13°26	29°19	29°55	13°28	3°55	2°26	17°40	20°43	14°28	13°13	2°29	5°40	T 9
W10	1 47 18	25° 1'57	27° 8	14°49	0♌33	0♌39	13°41	3°59	2°29	17°42	20°44	14°22	13°10	2°36	5°49	W10
T11	1 51 15	26° 1'51	11♏40	16°12	1°48	1°22	13°54	4° 3	2°31	17°45	20°45	14°14	13° 7	2°42	5°57	T11
F12	1 55 11	27° 1'46	26°33	17°33	3° 2	2° 6	14° 7	4° 7	2°34	17°47	20°46	14° 4	13° 4	2°49	6° 5	F12
S13	1 59 8	28° 1'44	11♊39	18°54	4°17	2°50	14°20	4°11	2°36	17°49	20°47	13°53	13° 1	2°56	6°14	S13
S14	2 3 4	29° 1'43	26°46	20°13	5°31	3°34	14°33	4°15	2°39	17°51	20°48	13°43	12°57	3° 3	6°22	S14
M15	2 7 1	0♌ 1'44	11♏46	21°31	6°46	4°18	14°45	4°19	2°41	17°54	20°49	13°34	12°54	3° 9	6°31	M15
T16	2 10 57	1° 1'48	26°30	22°48	8° 1	5° 2	14°58	4°24	2°44	17°56	20°50	13°27	12°51	3°16	6°39	T16
W17	2 14 54	2° 1'54	10♊52	24° 4	9°15	5°46	15°11	4°28	2°46	17°58	20°51	13°24	12°48	3°23	6°47	W17
T18	2 18 50	3° 2'02	24°50	25°18	10°30	6°31	15°24	4°32	2°48	18° 0	20°52	13°22	12°45	3°29	6°55	T18
F19	2 22 47	4° 2'12	8♏25	26°30	11°45	7°15	15°36	4°37	2°50	18° 2	20°52	13°22	12°42	3°36	7° 4	F19
S20	2 26 44	5° 2'24	21°39	27°41	12°59	7°59	15°49	4°41	2°53	18° 4	20°53	13°22	12°38	3°43	7°12	S20
S21	2 30 40	6° 2'38	4♏35	28°49	14°14	8°44	16° 2	4°46	2°55	18° 7	20°54	13°21	12°35	3°50	7°20	S21
M22	2 34 37	7° 2'55	17°16	29°55	15°29	9°28	16°14	4°51	2°57	18° 9	20°54	13°17	12°32	3°56	7°28	M22
T23	2 38 33	8° 3'13	29°45	0♌59	16°44	10°13	16°27	4°56	2°59	18°11	20°55	13°10	12°29	4° 3	7°36	T23
W24	2 42 30	9° 3'33	12♌ 4	1°59	17°59	10°58	16°40	5° 1	3° 1	18°13	20°56	13° 0	12°26	4°10	7°44	W24
T25	2 46 26	10° 3'55	24°15	2°56	19°14	11°42	16°52	5° 5	3° 3	18°15	20°56	12°48	12°23	4°16	7°52	T25
F26	2 50 23	11° 4'19	6♌20	3°50	20°29	12°27	17° 5	5°10	3° 5	18°17	20°57	12°34	12°19	4°23	8° 0	F26
S27	2 54 19	12° 4'44	18°18	4°39	21°44	13°12	17°17	5°16	3° 7	18°19	20°58	12°18	12°16	4°30	8° 8	S27
S28	2 58 16	13° 5'11	0♌13	5°23	22°59	13°57	17°29	5°21	3° 9	18°21	20°58	12° 4	12°13	4°37	8°16	S28
M29	3 2 13	14° 5'40	12° 3	6° 2	24°14	14°42	17°42	5°26	3°11	18°24	20°59	11°51	12°10	4°43	8°23	M29
T30	3 6 9	15° 6'10	23°53	6°36	25°29	15°27	17°54	5°31	3°12	18°26	20°59	11°41	12° 7	4°50	8°31	T30
W31	3 10 6	16♌ 6'42	5♊43	7♊ 2	26♌44	16♌12	18♌ 6	5♊37	3♏14	18♌28	21♌ 0	11♌33	12♌ 3	4♊57	8♌39	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	6s20	16s12	4n48	13s 9	1s 3	5n31	1n26	19s33	0s43	3s37	1n 7	23s 2	0n25	11n27	0n44	5s18	1n40
T 2	6 43	18 22	4 22	13 46	1 10	5 3	1 27	19 44	0 43	3 42	1 7	23 2	0 25	11 26	0 44	5 19	1 40
W 3	7 6	19 44	3 44	14 22	1 17	4 35	1 29	19 55	0 44	3 48	1 7	23 2	0 25	11 25	0 44	5 19	1 40
T 4	7 29	20 15	2 57	14 58	1 23	4 6	1 30	20 6	0 44	3 53	1 7	23 2	0 25	11 24	0 44	5 20	1 40
F 5	7 52	19 50	2 1	15 33	1 30	3 38	1 30	20 16	0 45	3 58	1 7	23 2	0 25	11 23	0 44	5 21	1 40
S 6	8 14	18 28	0 58	16 7	1 36	3 9	1 31	20 27	0 45	4 3	1 7	23 2	0 25	11 22	0 44	5 22	1 40
S 7	8 37	16 9	0s 9	16 40	1 42	2 40	1 32	20 37	0 46	4 8	1 7	23 2	0 25	11 21	0 44	5 23	1 40
M 8	8 59	12 55	1 18	17 12	1 48	2 11	1 33	20 47	0 46	4 13	1 7	23 2	0 25	11 20	0 44	5 24	1 40
T 9	9 21	8 55	2 25	17 43	1 54	1 42	1 33	20 57	0 47	4 18	1 7	23 2	0 25	11 19	0 44	5 25	1 40
W10	9 43	4 17	3 26	18 14	1 59	1 13	1 34	21 7	0 47	4 23	1 7	23 2	0 24	11 18	0 44	5 25	1 40
T11	10 5	0n43	4 14	18 43	2 5	0 44	1 34	21 16	0 48	4 28	1 7	23 2	0 24	11 17	0 44	5 26	1 40
F12	10 27	5 48	4 47	19 12	2 10	0 14	1 35	21 26	0 48	4 33	1 7	23 2	0 24	11 17	0 44	5 27	1 40
S13	10 48	10 36	5 1	19 39	2 15	0s15	1 35	21 35	0 49	4 38	1 7	23 2	0 24	11 16	0 44	5 28	1 40
S14	11 10	14 44	4 53	20 6	2 20	0 44	1 35	21 44	0 49	4 43	1 7	23 2	0 24	11 15	0 44	5 29	1 40
M15	11 31	17 52	4 26	20 31	2 24	1 14	1 36	21 53	0 50	4 48	1 8	23 2	0 24	11 14	0 44	5 30	1 40
T16	11 52	19 47	3 41	20 55	2 28	1 43	1 36	22 1	0 50	4 53	1 8	23 2	0 24	11 13	0 44	5 31	1 40
W17	12 13	20 21	2 43	21 18	2 32	2 13	1 36	22 10	0 51	4 57	1 8	23 2	0 24	11 12	0 44	5 30	1 40
T18	12 34	19 38	1 36	21 39	2 35	2 42	1 36	22 18	0 51	5 2	1 8	23 2	0 24	11 11	0 44	5 32	1 40
F19	12 54	17 47	0 26	21 59	2 38	3 11	1 36	22 26	0 51	5 7	1 8	23 2	0 23	11 11	0 44	5 33	1 40
S20	13 14	15 1	0n44	22 18	2 41	3 41	1 35	22 33	0 52	5 12	1 8	23 2	0 23	11 10	0 44	5 34	1 41
S21	13 34	11 33	1 50	22 36	2 43	4 10	1 35	22 41	0 52	5 17	1 8	23 2	0 23	11 9	0 44	5 34	1 41
M22	13 54	7 38	2 49	22 52	2 44	4 39	1 35	22 48	0 53	5 22	1 8	23 2	0 23	11 8	0 44	5 35	1 41
T23	14 14	3 26	3 39	23 6	2 45	5 9	1 34	22 55	0 53	5 26	1 8	23 2	0 23	11 8	0 44	5 36	1 41
W24	14 33	0s50	4 17	23 19	2 45	5 38	1 34	23 2	0 54	5 31	1 8	23 2	0 23	11 7	0 44	5 37	1 41
T25	14 53	5 2	4 44	23 30	2 45	6 7	1 33	23 9	0 54	5 36	1 8	23 2	0 23	11 6	0 44	5 38	1 41
F26	15 12	8 59	4 57	23 39	2 44	6 35	1 33	23 15	0 54	5 41	1 8	23 2	0 23	11 6	0 45	5 38	1 41
S27	15 30	12 34	4 58	23 46	2 42	7 4	1 32	23 21	0 55	5 45	1 8	23 2	0 23	11 5	0 45	5 39	1 41
S28	15 49	15 37	4 45	23 52	2 39	7 33	1 31	23 27	0 55	5 50	1 8	23 1	0 23	11 4	0 45	5 40	1 41
M29	16 7	18 1	4 19	23 55	2 35	8 1	1 30	23 33	0 56	5 55	1 8	23 1	0 22	11 4	0 45	5 41	1 41
T30	16 25	19 39	3 43	23 56	2 30	8 29	1 30	23 38	0 56	5 59	1 8	23 1	0 22	11 3	0 45	5 41	1 41
W31	16s42	20s26	2n57	23s54	2s24	8s58	1n29	23s43	0s56	6s 4	1n 8	23s 1	0n22	11n 3	0n45	5s42	1n41

Julian Day Number = 2254230.5, Delta T = 06m12s

Ecliptic obliquity = 23°30'28", Nutation = - 0°00'14", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°12'11", Lahiri = 16°19'11" Julian Calendar 1 Oct. 1459 == Greg. Calendar 10 Oct. 1459

ASTRODIENST EPHEMERIS for the year 1459
geocentric

NOVEMBER 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	3 14 2	17 ¹⁷ 7'15	17 ³ 39	7 ²² 22	27 ⁵ 59	16 ² 57	18 ¹⁹ 19	5 ³ 42	3 ¹⁶ 16	18 ¹⁸ 30	21 ⁰ 0	11°R29	12 ⁰ 0	5 ² 3	8 ⁴ 46	T 1
F 2	3 17 59	18° 7'50	29°43	7°33	29°14	17°42	18°31	5°47	3°17	18°32	21° 0	11 ⁰ 27	11°57	5°10	8°54	F 2
S 3	3 21 55	19° 8'25	12 ² 1	7°R35	0 ¹¹ 29	18°27	18°43	5°53	3°19	18°34	21° 1	11°27	11°54	5°17	9° 2	S 3
S 4	3 25 52	20° 9'02	24°38	7°28	1°45	19°13	18°55	5°59	3°20	18°36	21° 1	11°27	11°51	5°24	9° 9	S 4
M 5	3 29 48	21° 9'40	7 ¹ 39	7°11	3° 0	19°58	19° 7	6° 4	3°22	18°38	21° 1	11°26	11°48	5°30	9°16	M 5
T 6	3 33 45	22°10'19	21° 9	6°43	4°15	20°43	19°19	6°10	3°23	18°40	21° 2	11°23	11°44	5°37	9°24	T 6
W 7	3 37 42	23°11'00	5 ¹ 8	6° 5	5°30	21°29	19°31	6°16	3°25	18°42	21° 2	11°18	11°41	5°44	9°31	W 7
T 8	3 41 38	24°11'41	19°38	5°16	6°45	22°14	19°43	6°21	3°26	18°43	21° 2	11°10	11°38	5°50	9°38	T 8
F 9	3 45 35	25°12'24	4 ⁸ 33	4°17	8° 1	23° 0	19°54	6°27	3°27	18°45	21° 2	11° 0	11°35	5°57	9°45	F 9
S 10	3 49 31	26°13'08	19°47	3° 9	9°16	23°45	20° 6	6°33	3°28	18°47	21° 2	10°49	11°32	6° 4	9°53	S 10
S 11	3 53 28	27°13'53	5 ¹¹ 8	1°54	10°31	24°31	20°18	6°39	3°29	18°49	21° 2	10°38	11°29	6°11	10° 0	S 11
M 12	3 57 24	28°14'39	20°25	0°34	11°47	25°17	20°29	6°45	3°30	18°51	21° 3	10°29	11°25	6°17	10° 7	M 12
T 13	4 1 21	29°15'27	5 ¹² 27	29 ¹¹ 12	13° 2	26° 2	20°41	6°51	3°31	18°53	21° 3	10°22	11°22	6°24	10°13	T 13
W 14	4 5 17	0 ² 16'17	20° 6	27°50	14°17	26°48	20°52	6°57	3°32	18°55	21°R 3	10°18	11°19	6°31	10°20	W 14
T 15	4 9 14	1°17'07	4 ⁰ 18	26°31	15°33	27°34	21° 4	7° 3	3°33	18°56	21° 3	10°D 16	11°16	6°37	10°27	T 15
F 16	4 13 11	2°18'00	18° 2	25°17	16°48	28°20	21°15	7°10	3°34	18°58	21° 3	10°16	11°13	6°44	10°34	F 16
S 17	4 17 7	3°18'53	1 ¹⁰ 19	24°12	18° 3	29° 6	21°26	7°16	3°35	19° 0	21° 2	10°R 17	11° 9	6°51	10°40	S 17
S 18	4 21 4	4°19'48	14°14	23°16	19°19	29°52	21°38	7°22	3°36	19° 2	21° 2	10°16	11° 6	6°58	10°47	S 18
M 19	4 25 0	5°20'44	26°49	22°31	20°34	0 ² 38	21°49	7°28	3°36	19° 3	21° 2	10°14	11° 3	7° 4	10°54	M 19
T 20	4 28 57	6°21'42	9 ² 10	21°57	21°49	1°24	22° 0	7°35	3°37	19° 5	21° 2	10° 9	11° 0	7°11	11° 0	T 20
W 21	4 32 53	7°22'40	21°20	21°34	23° 5	2°10	22°11	7°41	3°38	19° 7	21° 2	10° 1	10°57	7°18	11° 6	W 21
T 22	4 36 50	8°23'40	3 ¹¹ 21	21°23	24°20	2°56	22°22	7°48	3°38	19° 8	21° 2	9°52	10°54	7°24	11°13	T 22
F 23	4 40 46	9°24'41	15°18	21°D 23	25°36	3°43	22°32	7°54	3°39	19°10	21° 1	9°40	10°50	7°31	11°19	F 23
S 24	4 44 43	10°25'43	27°11	21°32	26°51	4°29	22°43	8° 1	3°39	19°11	21° 1	9°28	10°47	7°38	11°25	S 24
S 25	4 48 40	11°26'46	9 ² 2	21°51	28° 7	5°15	22°54	8° 7	3°39	19°13	21° 1	9°16	10°44	7°44	11°31	S 25
M 26	4 52 36	12°27'50	20°53	22°18	29°22	6° 2	23° 4	8°14	3°40	19°14	21° 1	9° 5	10°41	7°51	11°37	M 26
T 27	4 56 33	13°28'54	2 ³ 45	22°52	0 ² 37	6°48	23°15	8°20	3°40	19°16	21° 0	8°57	10°38	7°58	11°43	T 27
W 28	5 0 29	14°29'59	14°41	23°33	1°53	7°35	23°25	8°27	3°40	19°17	21° 0	8°51	10°35	8° 5	11°48	W 28
T 29	5 4 26	15°31'05	26°41	24°20	3° 8	8°21	23°35	8°34	3°40	19°19	20°59	8°48	10°31	8°11	11°54	T 29
F 30	5 8 22	16 ² 32'11	8 ² 50	25 ¹¹ 13	4 ² 24	9 ² 8	23 ⁴ 46	8 ³ 40	3 ⁴⁰ 40	19 ¹ 20	20 ⁰ 59	8°D 47	10 ⁰ 28	8 ² 18	12 ⁰ 0	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
T 1	17s 0	20s19	2n 2	23s50	2s16	9s25	1n28	23s48	0s57	6s 9	1n 8	23s 1	0n22	11n 2	0n45	5s43	1n41	24n19	10n21	17n23	17n14	16s33	5s35	2s17	
F 2	17 17	19 16	1 2	23 43	2 7	9 53	1 27	23 53	0 57	6 13	1 9	23 1	0 22	11 1	0 45	5 44	1 41	24 19	10 22	17 24	17 15	16 34	5 38	2 16	
S 3	17 33	17 17	0s 3	23 34	1 57	10 21	1 25	23 57	0 57	6 18	1 9	23 1	0 22	11 1	0 45	5 44	1 41	24 19	10 22	17 24	17 16	16 36	5 40	2 16	
S 4	17 50	14 26	1 9	23 21	1 45	10 48	1 24	24 2	0 58	6 22	1 9	23 1	0 22	11 0	0 45	5 45	1 41	24 20	10 22	17 24	17 17	16 37	5 43	2 16	
M 5	18 6	10 48	2 14	23 5	1 32	11 15	1 23	24 6	0 58	6 27	1 9	23 0	0 22	11 0	0 45	5 46	1 41	24 20	10 23	17 24	17 18	16 39	5 46	2 16	
T 6	18 22	6 29	3 14	22 45	1 17	11 41	1 22	24 9	0 58	6 31	1 9	23 0	0 22	10 59	0 45	5 47	1 41	24 20	10 23	17 25	17 19	16 40	5 49	2 16	
W 7	18 37	1 41	4 4	22 22	1 0	12 8	1 20	24 13	0 59	6 36	1 9	23 0	0 22	10 59	0 45	5 47	1 41	24 20	10 24	17 26	17 20	16 42	5 52	2 16	
T 8	18 52	3n22	4 40	21 56	0 43	12 34	1 19	24 16	0 59	6 40	1 9	23 0	0 21	10 59	0 45	5 48	1 41	24 21	10 24	17 29	17 21	16 43	5 54	2 16	
F 9	19 7	8 22	4 59	21 27	0 23	13 0	1 17	24 19	0 59	6 44	1 9	23 0	0 21	10 58	0 45	5 49	1 41	24 21	10 24	17 31	17 22	16 45	5 57	2 16	
S 10	19 22	12 57	4 58	20 54	0 4	13 25	1 16	24 21	1 0	6 49	1 9	22 59	0 21	10 58	0 45	5 49	1 41	24 21	10 25	17 34	17 22	16 46	6 0	2 15	
S 11	19 36	16 43	4 34	20 19	0n17	13 51	1 14	24 24	1 0	6 53	1 9	22 59	0 21	10 57	0 45	5 50	1 41	24 22	10 25	17 37	17 23	16 48	6 3	2 15	
M12	19 50	19 18	3 52	19 43	0 37	14 16	1 13	24 26	1 0	6 57	1 9	22 59	0 21	10 57	0 45	5 51	1 41	24 22	10 25	17 40	17 24	16 49	6 5	2 15	
T 13	20 3	20 30	2 53	19 6	0 58	14 40	1 11	24 27	1 1	7 2	1 9	22 59	0 21	10 57	0 45	5 51	1 41	24 22	10 26	17 42	17 25	16 51	6 8	2 15	
W14	20 16	20 16	1 45	18 29	1 17	15 4	1 9	24 29	1 1	7 6	1 10	22 59	0 21	10 56	0 45	5 52	1 41	24 23	10 26	17 43	17 26	16 52	6 10	2 15	
T 15	20 29	18 44	0 32	17 54	1 35	15 28	1 7	24 30	1 1	7 10	1 10	22 58	0 21	10 56	0 45	5 53	1 41	24 23	10 27	17 43	17 27	16 53	6 13	2 15	
F 16	20 41	16 7	0n41	17 21	1 51	15 51	1 6	24 31	1 1	7 14	1 10	22 58	0 21	10 56	0 45	5 53	1 41	24 23	10 27	17 43	17 28	16 55	6 16	2 15	
S 17	20 53	12 44	1 50	16 52	2 5	16 14	1 4	24 32	1 2	7 18	1 10	22 58	0 21	10 56	0 45	5 54	1 41	24 24	10 27	17 43	17 29	16 56	6 18	2 15	
S 18	21 4	8 50	2 50	16 26	2 17	16 37	1 2	24 32	1 2	7 22	1 10	22 58	0 21	10 55	0 46	5 54	1 41	24 24	10 28	17 43	17 29	16 58	6 21	2 15	
M19	21 15	4 39	3 41	16 6	2 26	16 59	1 0	24 33	1 2	7 26	1 10	22 57	0 20	10 55	0 46	5 55	1 41	24 25	10 28	17 44	17 30	16 59	6 23	2 15	
T 20	21 26	0 21	4 21	15 50	2 34	17 20	0 58	24 33	1 2	7 30	1 10	22 57	0 20	10 55	0 46	5 56	1 42	24 25	10 28	17 45	17 31	17 1	6 25	2 14	
W21	21 36	3s54	4 48	15 39	2 39	17 42	0 56	24 32	1 3	7 34	1 10	22 57	0 20	10 55	0 46	5 56	1 42	24 25	10 29	17 47	17 32	17 2	6 28	2 14	
T 22	21 46	7 57	5 1	15 32	2 43	18 2	0 54	24 31	1 3	7 38	1 10	22 57	0 20	10 55	0 46	5 57	1 42	24 26	10 29	17 50	17 33	17 4	6 30	2 14	
F 23	21 55	11 39	5 2	15 31	2 44	18 23	0 52	24 30	1 3	7 42	1 11	22 56	0 20	10 55	0 46	5 57	1 42	24 26	10 30	17 53	17 34	17 5	6 33	2 14	
S 24	22 5	14 53	4 49	15 33	2 45	18 42	0 50	24 29	1 3	7 46	1 11	22 56	0 20	10 55	0 46	5 58	1 42	24 27	10 30	17 56	17 35	17 7	6 35	2 14	
S 25	22 13	17 31	4 24	15 39	2 43	19 1	0 47	24 28	1 4	7 50	1 11	22 56	0 20	10 54	0 46	5 58	1 42	24 27	10 30	17 59	17 36	17 8	6 37	2 14	
M26	22 21	19 25	3 47	15 48	2 41	19 20	0 45	24 26	1 4	7 54	1 11	22 55	0 20	10 54	0 46	5 59	1 42	24 28	10 31	18 2	17 36	17 10	6 39	2 14	
T 27	22 29	20 28	3 1	16 0	2 38	19 38	0 43	24 24	1 4	7 57	1 11	22 55	0 20	10 54	0 46	5 59	1 42	24 28	10 31	18 4	17 37	17 11	6 42	2 14	
W28	22 36	20 37	2 6	16 14	2 33	19 56	0 41	24 22	1 4	8 1	1 11	22 55	0 20	10 54	0 46	6 0	1 42	24 28	10 31	18 6	17 38	17 12	6 44	2 14	
T 29	22 43	19 49	1 5	16 31	2 28	20 13	0 39	24 19	1 4	8 5	1 11	22 54	0 20	10 54	0 46	6 0	1 42	24 29	10 32	18 7	17 39	17 14	6 46	2 14	
F 30	22s49	18s 6	0s 0	16s49	2n23	20s29	0n36	24s16	1s 5	8s 8	1n12	22s54	0n19	10n54	0n46	6s 1	1n42	24n29	10n32	18n 7	17n40	17s15	6s48	2s14	

ASTRODIENST EPHEMERIS for the year 1459
geocentric

DECEMBER 1459 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 12 19	17°33'18	21°10	26°10	5°39	9°54	23°56	8°47	3°R40	19°22	20°R58	8°47	10°25	8°25	12°5	S 1
S 2	5 16 15	18°34'25	3°47	27°11	6°55	10°41	24° 6	8°54	3°40	19°23	20°58	8°49	10°22	8°31	12°11	S 2
M 3	5 20 12	19°35'32	16°43	28°15	8°10	11°27	24°16	9° 1	3°40	19°24	20°57	8°R49	10°19	8°38	12°16	M 3
T 4	5 24 9	20°36'39	0°4	29°23	9°26	12°14	24°25	9° 7	3°40	19°26	20°57	8°49	10°15	8°45	12°21	T 4
W 5	5 28 5	21°37'47	13°51	0°23	10°41	13° 1	24°35	9°14	3°40	19°27	20°56	8°47	10°12	8°52	12°26	W 5
T 6	5 32 2	22°38'54	28° 7	1°46	11°57	13°48	24°45	9°21	3°39	19°28	20°56	8°42	10° 9	8°58	12°31	T 6
F 7	5 35 58	23°40'02	12°48	3° 1	13°12	14°34	24°54	9°28	3°39	19°29	20°55	8°37	10° 6	9° 5	12°36	F 7
S 8	5 39 55	24°41'10	27°50	4°18	14°28	15°21	25° 4	9°35	3°39	19°31	20°54	8°30	10° 3	9°12	12°41	S 8
S 9	5 43 51	25°42'18	13°5	5°36	15°43	16° 8	25°13	9°42	3°38	19°32	20°54	8°23	10° 0	9°18	12°46	S 9
M10	5 47 48	26°43'27	28°21	6°56	16°59	16°55	25°22	9°49	3°38	19°33	20°53	8°17	9°56	9°25	12°50	M10
T 11	5 51 44	27°44'36	13°28	8°17	18°14	17°42	25°31	9°56	3°37	19°34	20°52	8°13	9°53	9°32	12°55	T 11
W12	5 55 41	28°45'45	28°17	9°40	19°30	18°29	25°40	10° 3	3°37	19°35	20°51	8°11	9°50	9°39	12°59	W12
T 13	5 59 38	29°46'54	12°41	11° 3	20°45	19°16	25°49	10°10	3°36	19°36	20°50	8°D10	9°47	9°45	13° 4	T 13
F 14	6 3 34	0°34'04	26°37	12°27	22° 1	20° 3	25°57	10°17	3°35	19°37	20°50	8°11	9°44	9°52	13° 8	F 14
S 15	6 7 31	1°49'14	10°5	13°52	23°16	20°50	26° 6	10°24	3°34	19°38	20°49	8°13	9°41	9°59	13°12	S 15
S 16	6 11 27	2°50'25	23° 7	15°18	24°31	21°37	26°14	10°31	3°34	19°39	20°48	8°14	9°37	10° 5	13°16	S 16
M17	6 15 24	3°51'35	5°47	16°45	25°47	22°24	26°23	10°38	3°33	19°40	20°47	8°R15	9°34	10°12	13°20	M17
T 18	6 19 20	4°52'46	18° 8	18°12	27° 2	23°11	26°31	10°45	3°32	19°41	20°46	8°14	9°31	10°19	13°24	T 18
W19	6 23 17	5°53'57	0°15	19°40	28°18	23°58	26°39	10°52	3°31	19°42	20°45	8°11	9°28	10°25	13°28	W19
T 20	6 27 14	6°55'09	12°13	21° 8	29°33	24°45	26°47	10°59	3°30	19°42	20°44	8° 7	9°25	10°32	13°31	T 20
F 21	6 31 10	7°56'20	24° 6	22°37	0°49	25°32	26°55	11° 6	3°29	19°43	20°43	8° 2	9°21	10°39	13°35	F 21
S 22	6 35 7	8°57'32	5°56	24° 6	2° 4	26°20	27° 3	11°13	3°28	19°44	20°42	7°57	9°18	10°46	13°38	S 22
S 23	6 39 3	9°58'43	17°47	25°36	3°20	27° 7	27°10	11°20	3°26	19°45	20°41	7°51	9°15	10°52	13°42	S 23
M24	6 43 0	10°59'54	29°40	27° 7	4°35	27°54	27°18	11°27	3°25	19°45	20°40	7°46	9°12	10°59	13°45	M24
T 25	6 46 56	12° 1'06	11°39	28°38	5°51	28°41	27°25	11°34	3°24	19°46	20°39	7°43	9° 9	11° 6	13°48	T 25
W26	6 50 53	13° 2'16	23°43	0°3	7° 6	29°29	27°32	11°41	3°23	19°47	20°38	7°41	9° 6	11°12	13°51	W26
T 27	6 54 49	14° 3'27	5°55	1°41	8°22	0°16	27°39	11°48	3°21	19°47	20°37	7°D40	9° 2	11°19	13°54	T 27
F 28	6 58 46	15° 4'37	18°16	3°13	9°37	1° 3	27°46	11°56	3°20	19°48	20°36	7°40	8°59	11°26	13°56	F 28
S 29	7 2 43	16° 5'46	0°49	4°46	10°53	1°50	27°53	12° 3	3°18	19°48	20°34	7°41	8°56	11°32	13°59	S 29
S 30	7 6 39	17° 6'54	13°36	6°19	12° 8	2°38	27°59	12°10	3°17	19°49	20°33	7°43	8°53	11°39	14° 1	S 30
M31	7 10 36	18° 8'02	26°38	7°53	13°23	3°25	28° 6	12°317	3°15	19°49	20°32	7°44	8°50	11°46	14° 4	M31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	22s55	15s32	1s 6	17s 8	2n17	20s45	0n34	24s13	1s 5	8s12	1n12	22s54	0n19	10n54	0n46	6s 1
S 2	23 1	12 11	2 11	17 28	2 10	21 0	0 32	24 9	1 5	8 16	1 12	22 53	0 19	10 54	0 46	6 2
M 3	23 6	8 10	3 10	17 50	2 3	21 15	0 29	24 6	1 5	8 19	1 12	22 53	0 19	10 54	0 46	6 2
T 4	23 10	3 40	4 1	18 11	1 56	21 29	0 27	24 2	1 5	8 23	1 12	22 52	0 19	10 55	0 46	6 3
W 5	23 15	1n11	4 40	18 34	1 48	21 43	0 24	23 57	1 5	8 26	1 12	22 52	0 19	10 55	0 46	6 3
T 6	23 18	6 6	5 3	18 56	1 41	21 55	0 22	23 53	1 6	8 29	1 12	22 52	0 19	10 55	0 46	6 4
F 7	23 21	10 50	5 8	19 18	1 33	22 7	0 20	23 48	1 6	8 33	1 13	22 51	0 19	10 55	0 46	6 4
S 8	23 24	15 0	4 51	19 40	1 25	22 19	0 17	23 43	1 6	8 36	1 13	22 51	0 19	10 55	0 46	6 4
S 9	23 26	18 14	4 14	20 2	1 17	22 30	0 15	23 37	1 6	8 39	1 13	22 50	0 19	10 55	0 46	6 5
M10	23 28	20 11	3 19	20 24	1 9	22 40	0 12	23 32	1 6	8 42	1 13	22 50	0 19	10 56	0 46	6 5
T 11	23 29	20 40	2 10	20 45	1 1	22 49	0 10	23 26	1 6	8 46	1 13	22 50	0 19	10 56	0 47	6 6
W12	23 30	19 41	0 54	21 5	0 53	22 58	0 8	23 19	1 6	8 49	1 13	22 49	0 19	10 56	0 47	6 6
T 13	23 30	17 27	0n25	21 25	0 45	23 6	0 5	23 13	1 6	8 52	1 13	22 49	0 18	10 56	0 47	6 6
F 14	23 30	14 13	1 39	21 44	0 37	23 13	0 3	23 6	1 6	8 55	1 14	22 48	0 18	10 57	0 47	6 7
S 15	23 30	10 21	2 45	22 3	0 29	23 20	0 0	22 59	1 6	8 58	1 14	22 48	0 18	10 57	0 47	6 7
S 16	23 29	6 7	3 41	22 20	0 21	23 26	0s 2	22 52	1 7	9 1	1 14	22 47	0 18	10 57	0 47	6 7
M17	23 27	1 44	4 24	22 37	0 14	23 31	0 5	22 44	1 7	9 3	1 14	22 47	0 18	10 58	0 47	6 8
T 18	23 25	2s37	4 53	22 53	0 6	23 35	0 7	22 36	1 7	9 6	1 14	22 46	0 18	10 58	0 47	6 8
W19	23 23	6 46	5 9	23 7	0s 1	23 39	0 9	22 28	1 7	9 9	1 14	22 46	0 18	10 58	0 47	6 8
T 20	23 20	10 36	5 11	23 21	0 9	23 42	0 12	22 20	1 7	9 12	1 15	22 45	0 18	10 59	0 47	6 8
F 21	23 16	14 0	5 0	23 34	0 16	23 45	0 14	22 11	1 7	9 14	1 15	22 45	0 18	10 59	0 47	6 9
S 22	23 12	16 50	4 36	23 45	0 23	23 46	0 17	22 2	1 7	9 17	1 15	22 44	0 18	11 0	0 47	6 9
S 23	23 8	18 57	4 0	23 56	0 30	23 47	0 19	21 53	1 7	9 19	1 15	22 44	0 18	11 0	0 47	6 9
M24	23 3	20 17	3 14	24 5	0 36	23 47	0 21	21 44	1 7	9 22	1 15	22 43	0 18	11 1	0 47	6 9
T 25	22 58	20 42	2 18	24 13	0 43	23 46	0 24	21 34	1 7	9 24	1 16	22 43	0 18	11 1	0 47	6 9
W26	22 52	20 10	1 16	24 20	0 49	23 45	0 26	21 24	1 7	9 27	1 16	22 42	0 17	11 2	0 47	6 10
T 27	22 46	18 41	0 10	24 25	0 55	23 43	0 28	21 14	1 7	9 29	1 16	22 42	0 17	11 2	0 47	6 10
F 28	22 39	16 19	0s58	24 30	1 1	23 40	0 30	21 4	1 7	9 31	1 16	22 41	0 17	11 3	0 47	6 10
S 29	22 32	13 9	2 4	24 32	1 7	23 36	0 33	20 53	1 7	9 34	1 16	22 40	0 17	11 3	0 47	6 10
S 30	22 25	9 19	3 6	24 34	1 13	23 32	0 35	20 43	1 7	9 36	1 17	22 40	0 17	11 4	0 47	6 10
M31	22s17	4s59	3s58	24s34	1s18	23s27	0s37	20s32	1s 7	9s38	1n17	22s39	0n17	11n 5	0n47	6s10

Julian Day Number = 2254291.5, Delta T = 06m11s

Ecliptic obliquity = 23°30'28", Nutation = -0°00'14", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°12'19", Lahiri = 16°19'20" Julian Calendar 1 Dec. 1459 == Greg. Calendar 10 Dec. 1459