



Astrodienst Ephemeris Tables for the year 1446

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 1446
geocentric

JANUARY 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	7 16 5	19°33'16	1°31	1°38 8	20°51	11°13	24°R 7	27°R29	25°R44	19°R11	27°R24	10°R18	9°32	12°8 8	8°R47	S 1
S 2	7 20 2	20°34'23	14°24	2°35	22° 5	11°35	24°R 2	27°R24	25°R41	19°R10	27°R22	10°R10	9°29	12°15	8°R47	S 2
M 3	7 23 58	21°35'29	26°55	4° 2	23°19	11°57	23°56	27°19	25°39	19° 9	27°21	10° 5	9°26	12°22	8°46	M 3
T 4	7 27 55	22°36'35	9°Y 7	5°30	24°32	12°19	23°50	27°15	25°37	19° 8	27°20	10° 2	9°22	12°28	8°46	T 4
W 5	7 31 51	23°37'39	21° 5	6°59	25°46	12°41	23°44	27°10	25°35	19° 8	27°18	10°D 1	9°19	12°35	8°46	W 5
T 6	7 35 48	24°38'42	2°55	8°29	27° 0	13° 2	23°38	27° 5	25°32	19° 7	27°17	10° 1	9°16	12°42	8°46	T 6
F 7	7 39 44	25°39'44	14°42	9°59	28°14	13°23	23°32	27° 0	25°30	19° 6	27°16	10°R 1	9°13	12°48	8°45	F 7
S 8	7 43 41	26°40'45	26°32	11°30	29°27	13°44	23°26	26°55	25°28	19° 5	27°14	10° 0	9°10	12°55	8°D45	S 8
S 9	7 47 37	27°41'45	8°II29	13° 2	0°K41	14° 4	23°19	26°50	25°26	19° 4	27°13	9°57	9° 6	13° 2	8°45	S 9
M10	7 51 34	28°42'44	20°38	14°34	1°54	14°24	23°13	26°45	25°24	19° 4	27°11	9°51	9° 3	13° 8	8°45	M10
T 11	7 55 31	29°43'42	3°E 2	16° 7	3° 8	14°44	23° 6	26°40	25°22	19° 3	27°10	9°42	9° 0	13°15	8°46	T 11
W12	7 59 27	0°44'39	15°43	17°40	4°21	15° 3	22°59	26°35	25°20	19° 2	27° 9	9°30	8°57	13°21	8°46	W12
T 13	8 3 24	1°45'35	28°42	19°14	5°35	15°21	22°52	26°30	25°18	19° 1	27° 7	9°17	8°54	13°28	8°46	T 13
F 14	8 7 20	2°46'30	11°R56	20°49	6°48	15°40	22°45	26°25	25°16	19° 0	27° 6	9° 4	8°51	13°35	8°46	F 14
S 15	8 11 17	3°47'24	25°25	22°25	8° 1	15°58	22°38	26°20	25°14	18°59	27° 5	8°51	8°47	13°41	8°47	S 15
S 16	8 15 13	4°48'16	9°R 5	24° 1	9°14	16°15	22°31	26°16	25°13	18°58	27° 3	8°40	8°44	13°48	8°47	S 16
M17	8 19 10	5°49'08	22°54	25°38	10°27	16°32	22°24	26°11	25°11	18°56	27° 2	8°32	8°41	13°55	8°48	M17
T 18	8 23 6	6°49'59	6°E49	27°16	11°40	16°49	22°16	26° 6	25° 9	18°55	27° 1	8°28	8°38	14° 1	8°48	T 18
W19	8 27 3	7°50'48	20°48	28°54	12°53	17° 5	22° 9	26° 1	25° 7	18°54	26°59	8°25	8°35	14° 8	8°49	W19
T 20	8 31 0	8°51'37	4°R50	0°K33	14° 6	17°21	22° 2	25°56	25° 6	18°53	26°58	8°25	8°32	14°15	8°50	T 20
F 21	8 34 56	9°52'25	18°55	2°13	15°19	17°36	21°54	25°52	25° 4	18°52	26°57	8°25	8°28	14°21	8°51	F 21
S 22	8 38 53	10°53'13	3°K 2	3°54	16°32	17°51	21°46	25°47	25° 2	18°51	26°55	8°24	8°25	14°28	8°51	S 22
S 23	8 42 49	11°53'59	17°10	5°35	17°45	18° 6	21°39	25°42	25° 1	18°49	26°54	8°20	8°22	14°35	8°52	S 23
M24	8 46 46	12°54'44	1°E16	7°18	18°57	18°20	21°31	25°38	24°59	18°48	26°53	8°14	8°19	14°41	8°53	M24
T 25	8 50 42	13°55'28	15°18	9° 1	20°10	18°33	21°23	25°33	24°58	18°47	26°51	8° 5	8°16	14°48	8°54	T 25
W26	8 54 39	14°56'11	29°12	10°45	21°22	18°46	21°15	25°29	24°57	18°46	26°50	7°53	8°12	14°54	8°56	W26
T 27	8 58 35	15°56'52	12°K53	12°30	22°35	18°58	21° 7	25°24	24°55	18°44	26°49	7°40	8° 9	15° 1	8°57	T 27
F 28	9 2 32	16°57'32	26°18	14°15	23°47	19°10	21° 0	25°20	24°54	18°43	26°48	7°27	8° 6	15° 8	8°58	F 28
S 29	9 6 29	17°58'10	9°K25	16° 2	24°59	19°21	20°52	25°15	24°53	18°42	26°46	7°16	8° 3	15°14	8°59	S 29
S 30	9 10 25	18°58'46	22°12	17°49	26°12	19°32	20°44	25°11	24°51	18°40	26°45	7° 6	8° 0	15°21	9° 1	S 30
M31	9 14 22	19°59'21	4°Y40	19°K37	27°K24	19°E42	20°R36	25°E 7	24°II50	18°R39	26°E44	6°E59	7°E57	15°E28	9°E 2	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	22s 5	15s22	4s42	23s48	0s18	16s10	1s39	2s14	2n24	14n33	1n 5	21n 6	0n23	23n40	0n13	5n26
S 2	21 56	10 1	4 11	23 55	0 25	15 45	1 39	2 23	2 25	14 35	1 5	21 7	0 23	23 40	0 13	5 26
M 3	21 47	4 25	3 28	23 59	0 32	15 20	1 38	2 30	2 26	14 37	1 5	21 8	0 23	23 40	0 13	5 27
T 4	21 37	1n14	2 37	24 3	0 39	14 54	1 37	2 38	2 26	14 39	1 6	21 10	0 23	23 40	0 13	5 27
W 5	21 26	6 43	1 39	24 6	0 46	14 28	1 35	2 46	2 27	14 41	1 6	21 11	0 24	23 39	0 13	5 27
T 6	21 16	11 56	0 38	24 7	0 52	14 1	1 34	2 54	2 28	14 43	1 6	21 12	0 24	23 39	0 13	5 28
F 7	21 5	16 42	0n25	24 7	0 59	13 35	1 33	3 1	2 29	14 46	1 6	21 13	0 24	23 39	0 13	5 28
S 8	20 53	20 50	1 26	24 5	1 5	13 7	1 31	3 8	2 30	14 48	1 7	21 14	0 24	23 39	0 13	5 28
S 9	20 41	24 10	2 25	24 3	1 11	12 40	1 30	3 15	2 30	14 50	1 7	21 15	0 24	23 39	0 13	5 29
M10	20 29	26 28	3 17	23 59	1 16	12 12	1 28	3 22	2 31	14 53	1 7	21 16	0 24	23 39	0 13	5 29
T 11	20 16	27 30	4 2	23 53	1 21	11 44	1 27	3 29	2 32	14 55	1 7	21 17	0 24	23 39	0 13	5 30
W12	20 3	27 8	4 35	23 46	1 26	11 16	1 25	3 36	2 33	14 57	1 7	21 18	0 24	23 39	0 13	5 30
T 13	19 50	25 18	4 55	23 38	1 31	10 47	1 23	3 42	2 34	15 0	1 7	21 19	0 24	23 39	0 13	5 30
F 14	19 36	22 3	5 0	23 28	1 36	10 18	1 21	3 49	2 34	15 2	1 8	21 20	0 25	23 39	0 13	5 31
S 15	19 22	17 36	4 48	23 17	1 40	9 49	1 19	3 55	2 35	15 5	1 8	21 21	0 25	23 39	0 13	5 31
S 16	19 7	12 11	4 19	23 5	1 44	9 19	1 17	4 1	2 36	15 7	1 8	21 22	0 25	23 39	0 13	5 32
M17	18 52	6 7	3 36	22 51	1 48	8 50	1 15	4 7	2 37	15 10	1 8	21 23	0 25	23 39	0 13	5 32
T 18	18 37	0s17	2 39	22 35	1 51	8 20	1 13	4 12	2 38	15 12	1 8	21 24	0 25	23 39	0 13	5 33
W19	18 22	6 44	1 32	22 18	1 54	7 50	1 11	4 18	2 38	15 15	1 9	21 25	0 25	23 39	0 13	5 33
T 20	18 6	12 53	0 19	21 59	1 56	7 20	1 9	4 23	2 39	15 18	1 9	21 26	0 25	23 39	0 13	5 34
F 21	17 50	18 23	0s55	21 39	1 59	6 49	1 6	4 28	2 40	15 20	1 9	21 27	0 25	23 38	0 13	5 34
S 22	17 33	22 54	2 6	21 18	2 1	6 18	1 4	4 33	2 41	15 23	1 9	21 28	0 25	23 38	0 13	5 35
S 23	17 16	26 2	3 9	20 54	2 2	5 48	1 1	4 38	2 41	15 25	1 9	21 29	0 25	23 38	0 13	5 35
M24	16 59	27 31	4 1	20 30	2 3	5 17	0 58	4 42	2 42	15 28	1 9	21 30	0 26	23 38	0 13	5 36
T 25	16 42	27 13	4 37	20 3	2 4	4 46	0 56	4 47	2 43	15 31	1 9	21 31	0 26	23 38	0 13	5 36
W26	16 24	25 13	4 57	19 35	2 5	4 15	0 53	4 51	2 44	15 33	1 9	21 32	0 26	23 38	0 13	5 37
T 27	16 6	21 46	4 59	19 6	2 5	3 43	0 50	4 55	2 45	15 36	1 10	21 33	0 26	23 38	0 13	5 37
F 28	15 48	17 14	4 44	18 35	2 4	3 12	0 47	4 59	2 45	15 39	1 10	21 34	0 26	23 38	0 13	5 38
S 29	15 30	12 0	4 15	18 2	2 3	2 41	0 44	5 2	2 46	15 41	1 10	21 35	0 26	23 38	0 13	5 38
S 30	15 11	6 22	3 33	17 28	2 2	2 9	0 41	5 5	2 47	15 44	1 10	21 35	0 26	23 38	0 13	5 39
M31	14s52	0s37	2s42	16s52	2s 0	1s37	0s38	5s 9	2n48	15n47	1n10	21n36	0n26	23n38	0n13	5n40

Julian Day Number = 2249209.5, Delta T = 06m36s
Ecliptic obliquity = 23°30'47, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°00'41, Lahiri = 16°07'42 Julian Calendar 1 Jan. 1446 == Greg. Calendar 10 Jan. 1446

ASTRODIENST EPHEMERIS for the year 1446

geocentric

FEBRUARY 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	9 18 18	20 ⁵⁹ 54	16 ⁵²	21 ²⁶	28 ³⁶	19 ⁵¹	20 ²⁸	25 ³	24 ⁴⁹	18 ³⁷	26 ⁴³	6 ⁵⁵	7 ⁵³	15 ³⁴	9 ⁴	T 1
W 2	9 22 15	22 ⁰ 26	28 ⁵¹	23 ¹⁶	29 ⁴⁸	20 ⁰	20 ²⁰	24 ⁵⁹	24 ⁴⁸	18 ³⁶	26 ⁴¹	6 ⁵³	7 ⁵⁰	15 ⁴¹	9 ⁵	W 2
T 3	9 26 11	23 ⁰ 55	10 ⁸	25 ⁷	0 ⁵⁹	20 ⁹	20 ¹²	24 ⁵⁵	24 ⁴⁷	18 ³⁴	26 ⁴⁰	6 ⁵³	7 ⁴⁷	15 ⁴⁸	9 ⁷	T 3
F 4	9 30 8	24 ⁰ 123	22 ²⁹	26 ⁵⁸	2 ¹¹	20 ¹⁶	20 ⁴	24 ⁵¹	24 ⁴⁶	18 ³³	26 ³⁹	6 ⁵³	7 ⁴⁴	15 ⁵⁴	9 ⁸	F 4
S 5	9 34 4	25 ⁰ 149	4 ¹⁹	28 ⁵⁰	3 ²³	20 ²³	19 ⁵⁶	24 ⁴⁷	24 ⁴⁵	18 ³²	26 ³⁸	6 ⁵³	7 ⁴¹	16 ¹	9 ¹⁰	S 5
S 6	9 38 1	26 ⁰ 213	16 ¹⁷	0 ⁴³	4 ³⁴	20 ³⁰	19 ⁴⁸	24 ⁴³	24 ⁴⁴	18 ³⁰	26 ³⁷	6 ⁵¹	7 ³⁸	16 ⁸	9 ¹²	S 6
M 7	9 41 58	27 ⁰ 234	28 ²⁹	2 ³⁶	5 ⁴⁶	20 ³⁶	19 ⁴¹	24 ³⁹	24 ⁴³	18 ²⁹	26 ³⁵	6 ⁴⁶	7 ³⁴	16 ¹⁴	9 ¹⁴	M 7
T 8	9 45 54	28 ⁰ 255	10 ⁵⁸	4 ³⁰	6 ⁵⁷	20 ⁴¹	19 ³³	24 ³⁵	24 ⁴³	18 ²⁷	26 ³⁴	6 ³⁹	7 ³¹	16 ²¹	9 ¹⁶	T 8
W 9	9 49 51	29 ⁰ 313	23 ⁴⁷	6 ²³	8 ⁸	20 ⁴⁵	19 ²⁵	24 ³²	24 ⁴²	18 ²⁵	26 ³³	6 ³⁰	7 ²⁸	16 ²⁸	9 ¹⁸	W 9
T 10	9 53 47	0 ³ 329	6 ⁵⁸	8 ¹⁷	9 ¹⁹	20 ⁴⁹	19 ¹⁷	24 ²⁸	24 ⁴¹	18 ²⁴	26 ³²	6 ¹⁹	7 ²⁵	16 ³⁴	9 ²⁰	T 10
F 11	9 57 44	1 ⁰ 343	20 ³¹	10 ¹¹	10 ³⁰	20 ⁵²	19 ¹⁰	24 ²⁵	24 ⁴¹	18 ²²	26 ³¹	6 ⁸	7 ²²	16 ⁴¹	9 ²²	F 11
S 12	10 1 40	2 ⁰ 355	4 ²³	12 ⁴	11 ⁴¹	20 ⁵⁵	19 ²	24 ²¹	24 ⁴⁰	18 ²¹	26 ³⁰	5 ⁵⁷	7 ¹⁸	16 ⁴⁷	9 ²⁴	S 12
S 13	10 5 37	3 ⁰ 405	18 ²⁹	13 ⁵⁷	12 ⁵²	20 ⁵⁶	18 ⁵⁵	24 ¹⁸	24 ³⁹	18 ¹⁹	26 ²⁹	5 ⁴⁸	7 ¹⁵	16 ⁵⁴	9 ²⁶	S 13
M14	10 9 33	4 ⁰ 414	2 ⁴⁵	15 ⁴⁹	14 ³	20 ⁵⁷	18 ⁴⁷	24 ¹⁵	24 ³⁹	18 ¹⁸	26 ²⁸	5 ⁴²	7 ¹²	17 ¹	9 ²⁹	M14
T 15	10 13 30	5 ⁰ 421	17 ⁶	17 ⁴⁰	15 ¹³	20 ⁵⁸	18 ⁴⁰	24 ¹²	24 ³⁹	18 ¹⁶	26 ²⁷	5 ³⁸	7 ⁹	17 ⁷	9 ³¹	T 15
W16	10 17 27	6 ⁰ 426	1 ²⁶	19 ²⁹	16 ²³	20 ⁵⁷	18 ³³	24 ⁹	24 ³⁸	18 ¹⁴	26 ²⁶	5 ³⁶	7 ⁶	17 ¹⁴	9 ³³	W16
T 17	10 21 23	7 ⁰ 430	15 ⁴³	21 ¹⁵	17 ³⁴	20 ⁵⁶	18 ²⁵	24 ⁶	24 ³⁸	18 ¹³	26 ²⁵	5 ³⁷	7 ³	17 ²¹	9 ³⁶	T 17
F 18	10 25 20	8 ⁰ 432	29 ⁵⁴	23 ⁰	18 ⁴⁴	20 ⁵⁴	18 ¹⁸	24 ³	24 ³⁸	18 ¹¹	26 ²⁴	5 ³⁷	6 ⁵⁹	17 ²⁷	9 ³⁸	F 18
S 19	10 29 16	9 ⁰ 433	13 ⁵⁸	24 ⁴¹	19 ⁵⁴	20 ⁵¹	18 ¹¹	24 ⁰	24 ³⁷	18 ¹⁰	26 ²³	5 ³⁷	6 ⁵⁶	17 ³⁴	9 ⁴¹	S 19
S 20	10 33 13	10 ⁰ 432	27 ⁵⁴	26 ¹⁹	21 ⁴	20 ⁴⁸	18 ⁴	23 ⁵⁷	24 ³⁷	18 ⁸	26 ²²	5 ³⁶	6 ⁵³	17 ⁴¹	9 ⁴³	S 20
M21	10 37 9	11 ⁰ 429	11 ⁴¹	27 ⁵²	22 ¹³	20 ⁴⁴	17 ⁵⁸	23 ⁵⁵	24 ³⁷	18 ⁶	26 ²¹	5 ³²	6 ⁵⁰	17 ⁴⁷	9 ⁴⁶	M21
T 22	10 41 6	12 ⁰ 425	25 ¹⁹	29 ²¹	23 ²³	20 ³⁹	17 ⁵¹	23 ⁵²	24 ³⁷	18 ⁵	26 ²⁰	5 ²⁶	6 ⁴⁷	17 ⁵⁴	9 ⁴⁹	T 22
W23	10 45 2	13 ⁰ 419	8 ⁴⁶	0 ⁴⁵	24 ³³	20 ³³	17 ⁴⁴	23 ⁵⁰	24 ³⁷	18 ³	26 ¹⁹	5 ¹⁸	6 ⁴⁴	18 ¹	9 ⁵¹	W23
T 24	10 48 59	14 ⁰ 411	22 ¹	2 ⁴	25 ⁴²	20 ²⁶	17 ³⁸	23 ⁴⁸	24 ³⁷	18 ¹	26 ¹⁸	5 ⁹	6 ⁴⁰	18 ⁷	9 ⁵⁴	T 24
F 25	10 52 56	15 ⁰ 401	5 ³	3 ¹⁶	26 ⁵¹	20 ¹⁹	17 ³¹	23 ⁴⁶	24 ³⁷	18 ⁰	26 ¹⁸	5 ⁰	6 ³⁷	18 ¹⁴	9 ⁵⁷	F 25
S 26	10 56 52	16 ⁰ 349	17 ⁵¹	4 ²¹	28 ⁰	20 ¹¹	17 ²⁵	23 ⁴⁴	24 ³⁷	17 ⁵⁸	26 ¹⁷	4 ⁵¹	6 ³⁴	18 ²¹	10 ⁰	S 26
S 27	11 0 49	17 ⁰ 335	0 ²⁴	5 ²⁰	29 ⁹	20 ²	17 ¹⁹	23 ⁴²	24 ³⁸	17 ⁵⁶	26 ¹⁶	4 ⁴⁴	6 ³¹	18 ²⁷	10 ³	S 27
M28	11 4 45	18 ⁰ 319	12 ⁴³	6 ¹¹	0 ¹⁸	19 ⁵²	17 ¹³	23 ⁴⁰	24 ³⁸	17 ⁵⁵	26 ¹⁵	4 ⁴⁰	6 ²⁸	18 ³⁴	10 ⁶	M28

Day	☉	☾		♀		♀		♂		♂		♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s33	5n 3	1s44	16s15	1s57	1s 6	0s35	5s11	2n48	15n49	1n10	21n37	0n26	23n38	0n13	5n40	1n15	25n19	4n31	13n52	14n11	17n13	12n39	2s 1	
W 2	14 13	10 26	0 43	15 36	1 54	0 34	0 32	5 14	2 49	15 52	1 10	21 38	0 26	23 38	0 13	5 41	1 15	25 19	4 31	13 51	14 10	17 16	12 40	2 1	
T 3	13 53	15 24	0n20	14 56	1 51	0 3	0 29	5 17	2 50	15 54	1 10	21 39	0 26	23 38	0 13	5 41	1 15	25 19	4 31	13 51	14 9	17 18	12 40	2 1	
F 4	13 33	19 46	1 22	14 14	1 47	0n29	0 25	5 19	2 50	15 57	1 10	21 40	0 26	23 38	0 13	5 42	1 15	25 20	4 31	13 51	14 8	17 21	12 41	2 1	
S 5	13 13	23 22	2 20	13 31	1 42	1 1	0 22	5 21	2 51	16 0	1 10	21 40	0 27	23 38	0 13	5 43	1 16	25 20	4 31	13 51	14 7	17 24	12 41	2 1	
S 6	12 53	26 1	3 13	12 46	1 37	1 32	0 19	5 23	2 52	16 2	1 11	21 41	0 27	23 38	0 13	5 43	1 16	25 20	4 31	13 50	14 6	17 27	12 42	2 1	
M 7	12 32	27 29	3 58	12 0	1 31	2 4	0 15	5 24	2 52	16 5	1 11	21 42	0 27	23 38	0 13	5 44	1 16	25 20	4 31	13 49	14 5	17 29	12 43	2 1	
T 8	12 11	27 36	4 33	11 12	1 25	2 35	0 12	5 26	2 53	16 7	1 11	21 43	0 27	23 38	0 13	5 44	1 16	25 21	4 31	13 47	14 4	17 32	12 43	2 1	
W 9	11 50	26 16	4 56	10 24	1 18	3 7	0 8	5 27	2 54	16 10	1 11	21 43	0 27	23 38	0 13	5 45	1 16	25 21	4 31	13 44	14 3	17 35	12 44	2 1	
T 10	11 29	23 28	5 3	9 34	1 10	3 38	0 4	5 28	2 54	16 12	1 11	21 44	0 27	23 38	0 13	5 46	1 16	25 21	4 31	13 40	14 2	17 38	12 45	2 1	
F 11	11 8	19 20	4 53	8 44	1 2	4 10	0 1	5 28	2 55	16 15	1 11	21 45	0 27	23 38	0 13	5 46	1 16	25 21	4 31	13 36	14 1	17 40	12 45	2 1	
S 12	10 46	14 4	4 27	7 52	0 53	4 41	0n 3	5 29	2 55	16 17	1 11	21 45	0 27	23 38	0 13	5 47	1 16	25 21	4 31	13 33	14 0	17 43	12 46	2 0	
S 13	10 25	8 0	3 44	7 0	0 43	5 12	0 7	5 29	2 56	16 19	1 11	21 46	0 27	23 37	0 13	5 48	1 16	25 22	4 31	13 30	13 59	17 46	12 47	2 0	
M14	10 3	1 26	2 46	6 7	0 33	5 43	0 11	5 29	2 56	16 22	1 11	21 47	0 27	23 37	0 13	5 48	1 16	25 22	4 31	13 28	13 58	17 49	12 47	2 0	
T 15	9 41	5s14	1 37	5 14	0 22	6 14	0 15	5 28	2 57	16 24	1 11	21 47	0 27	23 37	0 13	5 49	1 16	25 22	4 31	13 26	13 56	17 51	12 48	2 0	
W16	9 19	11 40	0 22	4 21	0 11	6 45	0 18	5 28	2 57	16 26	1 11	21 48	0 27	23 37	0 13	5 50	1 16	25 22	4 31	13 26	13 55	17 54	12 49	2 0	
T 17	8 56	17 27	0s54	3 28	0n 1	7 15	0 22	5 27	2 58	16 29	1 11	21 49	0 27	23 37	0 13	5 50	1 16	25 22	4 31	13 26	13 54	17 57	12 50	2 0	
F 18	8 34	22 15	2 6	2 35	0 13	7 46	0 26	5 26	2 58	16 31	1 11	21 49	0 28	23 37	0 13	5 51	1 16	25 23	4 31	13 26	13 53	18 0	12 50	2 0	
S 19	8 11	25 42	3 10	1 43	0 26	8 16	0 30	5 24	2 59	16 33	1 11	21 50	0 28	23 37	0 13	5 51	1 16	25 23	4 31	13 26	13 52	18 2	12 51	2 0	
S 20	7 49	27 32	4 3	0 53	0 39	8 46	0 34	5 23	2 59	16 35	1 11	21 50	0 28	23 37	0 13	5 52	1 16	25 23	4 31	13 26	13 51	18 5	12 52	2 0	
M21	7 26	27 39	4 40	0 3	0 52	9 16	0 38	5 21	2 59	16 37	1 11	21 51	0 28	23 37	0 13	5 53	1 16	25 23	4 31	13 24	13 50	18 8	12 53	2 0	
T 22	7 3	26 5	5 1	0n45	1 6	9 46	0 42	5 19	3 0	16 39	1 11	21 51	0 28	23 37	0 13	5 53	1 16	25 23	4 31	13 22	13 49	18 10	12 54	2 0	
W23	6 40	23 2	5 6	1 31	1 19	10 15	0 46	5 16	3 0	16 41	1 11	21 52	0 28	23 37	0 13	5 54	1 16	25 23	4 31	13 20	13 48	18 13	12 55	2 0	
T 24	6 17	18 50	4 53	2 14	1 33	10 45	0 50	5 14	3 0	16 43	1 11	21 52	0 28	23 37	0 13	5 55	1 16	25 24	4 31	13 17	13 47	18 16	12 56	2 0	
F 25	5 54	13 48	4 26	2 55	1 46	11 14	0 55	5 11	3 0	16 45	1 11	21 53	0 28	23 37	0 13	5 55	1 16	25 24	4 31	13 14	13 46	18 19	12 57	2 0	
S 26	5 31	8 16	3 45	3 34	1 59	11 43	0 59	5 8	3 0	16 47	1 11	21 53	0 28	23 37	0 13	5 56	1 16	25 24	4 31	13 11	13 45	18 21	12 57	2 0	
S 27	5 8	2 30	2 54	4 9	2 12	12 11	1 3	5 4	3 0	16 49	1 11	21 53	0 28	23 37	0 13	5 57	1 16	25 24	4 31	13 8	13 44	18 24	12 58	2 0	
M28	4s44	3n16	1s56	4n40	2n24	12n39	1n 7	5s 1	3n 0	16n51	1n11	21n54	0n28	23n37	0n13	5n57	1n16	25n24	4n31	13n 7	13n43	18n27	12n59	2s 1	

ASTRODIENST EPHEMERIS for the year 1446

geocentric

MARCH 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	11 8 42	19°30'1	24°49	6°55	18°26	19°R42	17°R 7	23°R38	24°II38	17°R53	26°R14	4°R37	6°24	18°40	10°8 9	T 1
W 2	11 12 38	20° 2'41	6°45	7°30	2°35	19°430	17°2	23°36	24°39	17°51	26°14	4°D37	6°21	18°47	10°12	W 2
T 3	11 16 35	21° 2'18	18°35	7°58	3°43	19°18	16°56	23°35	24°39	17°50	26°13	4°38	6°18	18°54	10°15	T 3
F 4	11 20 31	22° 1'54	0°II22	8°18	4°51	19° 6	16°51	23°33	24°40	17°48	26°12	4°39	6°15	19° 0	10°18	F 4
S 5	11 24 28	23° 1'27	12°12	8°29	5°59	18°52	16°46	23°32	24°40	17°46	26°12	4°41	6°12	19° 7	10°21	S 5
S 6	11 28 25	24° 0'57	24°10	8°R33	7° 6	18°38	16°40	23°31	24°41	17°45	26°11	4°R41	6° 9	19°14	10°25	S 6
M 7	11 32 21	25° 0'26	6°21	8°28	8°14	18°23	16°36	23°30	24°41	17°43	26°10	4°40	6° 5	19°20	10°28	M 7
T 8	11 36 18	25°59'52	18°49	8°16	9°21	18° 8	16°31	23°29	24°42	17°41	26°10	4°38	6° 2	19°27	10°31	T 8
W 9	11 40 14	26°59'16	18°39	7°57	10°28	17°51	16°26	23°28	24°43	17°40	26° 9	4°34	5°59	19°34	10°35	W 9
T 10	11 44 11	27°58'37	14°54	7°31	11°35	17°35	16°22	23°27	24°44	17°38	26° 9	4°29	5°56	19°40	10°38	T 10
F 11	11 48 7	28°57'56	28°34	7° 0	12°42	17°17	16°18	23°26	24°45	17°37	26° 8	4°23	5°53	19°47	10°41	F 11
S 12	11 52 4	29°57'13	12°38	6°23	13°48	16°59	16°13	23°26	24°46	17°35	26° 8	4°17	5°49	19°54	10°45	S 12
S 13	11 56 0	0°Y56'27	27° 2	5°41	14°54	16°40	16° 9	23°25	24°47	17°33	26° 7	4°13	5°46	20° 0	10°48	S 13
M14	11 59 57	1°55'40	11°41	4°56	16° 0	16°21	16° 6	23°25	24°48	17°32	26° 7	4°10	5°43	20° 7	10°52	M14
T 15	12 3 53	2°54'50	26°27	4° 9	17° 6	16° 2	16° 2	23°25	24°49	17°30	26° 6	4° 8	5°40	20°14	10°55	T 15
W16	12 7 50	3°53'59	11°14	3°20	18°12	15°42	15°59	23°24	24°50	17°28	26° 6	4°D 8	5°37	20°20	10°59	W16
T 17	12 11 47	4°53'06	25°54	2°30	19°17	15°21	15°55	23°D24	24°51	17°27	26° 6	4° 9	5°34	20°27	11° 3	T 17
F 18	12 15 43	5°52'11	10°23	1°41	20°22	15° 0	15°52	23°25	24°52	17°25	26° 5	4°11	5°30	20°33	11° 6	F 18
S 19	12 19 40	6°51'14	24°38	0°53	21°27	14°38	15°50	23°25	24°53	17°24	26° 5	4°12	5°27	20°40	11°10	S 19
S 20	12 23 36	7°50'16	8°35	0° 8	22°31	14°17	15°47	23°25	24°55	17°22	26° 5	4°R12	5°24	20°47	11°14	S 20
M21	12 27 33	8°49'15	22°16	29°25	23°36	13°55	15°44	23°25	24°56	17°21	26° 4	4°12	5°21	20°53	11°18	M21
T 22	12 31 29	9°48'13	5°41	28°47	24°40	13°32	15°42	23°26	24°58	17°19	26° 4	4°10	5°18	21° 0	11°21	T 22
W23	12 35 26	10°47'09	18°49	28°12	25°43	13°10	15°40	23°27	24°59	17°18	26° 4	4° 7	5°15	21° 7	11°25	W23
T 24	12 39 23	11°46'04	1°43	27°41	26°47	12°47	15°38	23°27	25° 1	17°16	26° 4	4° 4	5°11	21°13	11°29	T 24
F 25	12 43 19	12°44'56	14°23	27°16	27°50	12°24	15°36	23°28	25° 2	17°15	26° 4	4° 0	5° 8	21°20	11°33	F 25
S 26	12 47 16	13°43'46	26°51	26°56	28°53	12° 1	15°35	23°29	25° 4	17°13	26° 3	3°57	5° 5	21°27	11°37	S 26
S 27	12 51 12	14°42'35	9°Y 8	26°41	29°55	11°38	15°33	23°30	25° 5	17°12	26° 3	3°55	5° 2	21°33	11°41	S 27
M28	12 55 9	15°41'21	21°14	26°31	0°II57	11°15	15°32	23°31	25° 7	17°10	26° 3	3°53	4°59	21°40	11°45	M28
T 29	12 59 5	16°40'06	3°12	26°D27	1°59	10°52	15°31	23°33	25° 9	17° 9	26° 3	3°D53	4°55	21°47	11°49	T 29
W30	13 3 2	17°38'48	15° 4	26°28	3° 1	10°30	15°30	23°34	25°11	17° 8	26° 3	3°53	4°52	21°53	11°53	W30
T 31	13 6 58	18°Y37'29	26°352	26°34	4°II 2	10°4 7	15°29	23°36	25°II12	17°36	26°D 3	3°54	4°49	22°8 0	11°57	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	4s21	8n49	0s53	5n 8	2n36	13n 7	1n11	4s57	3n 0	16n53	1n11	21n54	0n28	23n37	0n13	5n58
W 2	3 57	14 0	0n12	5 32	2 46	13 35	1 15	4 53	3 0	16 54	1 11	21 54	0 28	23 37	0 13	5 59
T 3	3 34	18 37	1 15	5 52	2 56	14 2	1 19	4 48	3 0	16 56	1 11	21 55	0 28	23 37	0 13	5 59
F 4	3 10	22 30	2 15	6 8	3 5	14 29	1 24	4 44	3 0	16 57	1 11	21 55	0 28	23 37	0 13	6 0
S 5	2 47	25 28	3 10	6 20	3 13	14 56	1 28	4 39	2 59	16 59	1 11	21 55	0 28	23 37	0 13	6 1
S 6	2 23	27 20	3 57	6 27	3 19	15 23	1 32	4 34	2 59	17 0	1 11	21 56	0 28	23 37	0 13	6 1
M 7	1 59	27 56	4 34	6 29	3 24	15 49	1 36	4 29	2 59	17 2	1 10	21 56	0 29	23 38	0 13	6 2
T 8	1 36	27 8	4 59	6 28	3 27	16 14	1 40	4 23	2 58	17 3	1 10	21 56	0 29	23 38	0 13	6 3
W 9	1 12	24 54	5 11	6 22	3 29	16 40	1 44	4 18	2 57	17 5	1 10	21 56	0 29	23 38	0 13	6 3
T 10	0 48	21 17	5 6	6 12	3 29	17 4	1 49	4 12	2 57	17 6	1 10	21 56	0 29	23 38	0 13	6 4
F 11	0 25	16 27	4 44	5 58	3 28	17 29	1 53	4 6	2 56	17 7	1 10	21 57	0 29	23 38	0 13	6 5
S 12	0 1	10 36	4 5	5 40	3 24	17 53	1 57	4 0	2 55	17 8	1 10	21 57	0 29	23 38	0 13	6 5
S 13	0n23	4 4	3 9	5 18	3 19	18 17	2 1	3 53	2 55	17 9	1 10	21 57	0 29	23 38	0 13	6 6
M14	0 46	2s48	2 0	4 54	3 12	18 40	2 5	3 47	2 54	17 10	1 10	21 57	0 29	23 38	0 13	6 7
T 15	1 10	9 35	0 42	4 27	3 4	19 3	2 9	3 40	2 53	17 11	1 10	21 57	0 29	23 38	0 13	6 7
W16	1 33	15 52	0s39	3 59	2 53	19 26	2 13	3 33	2 52	17 12	1 10	21 57	0 29	23 38	0 13	6 8
T 17	1 57	21 11	1 57	3 28	2 42	19 48	2 17	3 27	2 50	17 13	1 10	21 57	0 29	23 38	0 13	6 8
F 18	2 20	25 8	3 6	2 57	2 29	20 9	2 21	3 20	2 49	17 14	1 10	21 57	0 29	23 38	0 13	6 9
S 19	2 44	27 27	4 3	2 25	2 15	20 30	2 24	3 12	2 48	17 15	1 9	21 57	0 29	23 38	0 13	6 10
S 20	3 7	27 57	4 44	1 54	2 1	20 51	2 28	3 5	2 46	17 15	1 9	21 57	0 29	23 38	0 13	6 10
M21	3 30	26 43	5 8	1 23	1 45	21 11	2 32	2 58	2 45	17 16	1 9	21 57	0 29	23 38	0 13	6 11
T 22	3 54	23 59	5 14	0 53	1 30	21 31	2 36	2 51	2 43	17 17	1 9	21 57	0 29	23 38	0 13	6 11
W23	4 17	20 2	5 4	0 24	1 13	21 50	2 39	2 44	2 42	17 17	1 9	21 57	0 29	23 38	0 13	6 12
T 24	4 40	15 14	4 39	0s 3	0 57	22 8	2 43	2 36	2 40	17 18	1 9	21 57	0 29	23 38	0 13	6 12
F 25	5 3	9 51	4 0	0 28	0 41	22 26	2 47	2 29	2 38	17 18	1 9	21 57	0 29	23 38	0 13	6 13
S 26	5 26	4 10	3 10	0 51	0 25	22 44	2 50	2 22	2 37	17 19	1 9	21 57	0 29	23 38	0 13	6 14
S 27	5 49	1n36	2 13	1 11	0 9	23 1	2 53	2 15	2 35	17 19	1 9	21 57	0 29	23 38	0 13	6 14
M28	6 12	7 14	1 9	1 29	0s 6	23 18	2 57	2 7	2 33	17 19	1 8	21 57	0 30	23 38	0 13	6 15
T 29	6 34	12 34	0 4	1 44	0 21	23 34	3 0	2 0	2 31	17 19	1 8	21 56	0 30	23 39	0 13	6 15
W30	6 57	17 23	1n 2	1 57	0 35	23 49	3 3	1 53	2 29	17 19	1 8	21 56	0 30	23 39	0 13	6 16
T 31	7n19	21n31	2n 4	2s 7	0s49	24n 4	3n 6	1s46	2n26	17n20	1n 8	21n56	0n30	23n39	0n13	6n16

Julian Day Number = 2249268.5, Delta T = 06m36s
 Ecliptic obliquity = 23°30'48", Nutation = - 0°00'09", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 17°00'49", Lahiri = 16°07'50" Julian Calendar 1 March 1446 == Greg. Calendar 10 March 1446

ASTRODIENST EPHEMERIS for the year 1446

geocentric

APRIL 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day		
F 1	13 10 55	19°36'07	8°39	26°45	5°11	3	9°R44	15°R29	23°37	25°14	17°R 5	26°3	3°55	4°46	22°8	7	12°8	1	F 1
S 2	13 14 51	20°34'43	20°30	27° 1	6° 3		9°22	15°29	23°39	25°16	17°R 4	26° 3	3°57	4°43	22°13		12° 5		S 2
S 3	13 18 48	21°33'17	2°28	27°21	7° 3		9° 0	15°D29	23°41	25°18	17° 2	26° 3	3°58	4°40	22°20		12° 9		S 3
M 4	13 22 45	22°31'49	14°37	27°46	8° 3		8°39	15°29	23°43	25°20	17° 1	26° 3	3°58	4°36	22°27		12°13		M 4
T 5	13 26 41	23°30'19	27° 3	28°16	9° 2		8°17	15°29	23°45	25°22	17° 0	26° 3	3°R58	4°33	22°33		12°18		T 5
W 6	13 30 38	24°28'46	9°24	28°49	10° 1		7°57	15°30	23°47	25°25	16°58	26° 4	3°58	4°30	22°40		12°22		W 6
T 7	13 34 34	25°27'11	23° 0	29°27	10°59		7°36	15°30	23°49	25°27	16°57	26° 4	3°57	4°27	22°47		12°26		T 7
F 8	13 38 31	26°25'34	6°36	0°Y 8	11°57		7°16	15°31	23°51	25°29	16°56	26° 4	3°56	4°24	22°53		12°30		F 8
S 9	13 42 27	27°23'55	20°40	0°53	12°54		6°57	15°32	23°54	25°31	16°55	26° 4	3°56	4°21	23° 0		12°34		S 9
S 10	13 46 24	28°22'14	5°28	1°41	13°51		6°38	15°33	23°56	25°33	16°54	26° 4	3°55	4°17	23° 6		12°38		S 10
M11	13 50 20	29°20'31	19°57	2°33	14°48		6°20	15°35	23°59	25°36	16°53	26° 5	3°55	4°14	23°13		12°43		M11
T 12	13 54 17	0°18'46	4°35	3°28	15°44		6° 2	15°36	24° 2	25°38	16°51	26° 5	3°D54	4°11	23°20		12°47		T 12
W13	13 58 14	1°16'59	20° 5	4°26	16°39		5°45	15°38	24° 5	25°40	16°50	26° 5	3°55	4° 8	23°26		12°51		W13
T 14	14 2 10	2°15'10	5°28	5°27	17°34		5°29	15°40	24° 8	25°43	16°49	26° 6	3°55	4° 5	23°33		12°55		T 14
F 15	14 6 7	3°13'21	19°58	6°31	18°28		5°13	15°42	24°11	25°45	16°48	26° 6	3°55	4° 1	23°40		13° 0		F 15
S 16	14 10 3	4°11'29	4°30	7°37	19°22		4°58	15°44	24°14	25°48	16°47	26° 7	3°R55	3°58	23°46		13° 4		S 16
S 17	14 14 0	5° 9'36	18°39	8°46	20°15		4°43	15°47	24°17	25°50	16°46	26° 7	3°55	3°55	23°53		13° 8		S 17
M18	14 17 56	6° 7'42	2°25	9°58	21° 7		4°30	15°50	24°20	25°53	16°45	26° 7	3°D55	3°52	24° 0		13°13		M18
T 19	14 21 53	7° 5'46	15°46	11°12	21°59		4°17	15°52	24°24	25°56	16°44	26° 8	3°55	3°49	24° 6		13°17		T 19
W20	14 25 49	8° 3'49	28°47	12°29	22°50		4° 5	15°55	24°27	25°58	16°43	26° 8	3°55	3°46	24°13		13°21		W20
T 21	14 29 46	9° 1'50	11°28	13°48	23°40		3°53	15°58	24°31	26° 1	16°43	26° 9	3°55	3°42	24°20		13°26		T 21
F 22	14 33 43	9°59'50	23°54	15° 9	24°30		3°43	16° 2	24°34	26° 4	16°42	26°10	3°56	3°39	24°26		13°30		F 22
S 23	14 37 39	10°57'49	6°Y 7	16°33	25°19		3°33	16° 5	24°38	26° 6	16°41	26°10	3°57	3°36	24°33		13°34		S 23
S 24	14 41 36	11°55'46	18°10	17°59	26° 7		3°24	16° 9	24°42	26° 9	16°40	26°11	3°57	3°33	24°40		13°39		S 24
M25	14 45 32	12°53'42	0°8	19°26	26°54		3°16	16°13	24°46	26°12	16°39	26°11	3°R58	3°30	24°46		13°43		M25
T 26	14 49 29	13°51'36	11°57	20°57	27°40		3° 8	16°17	24°50	26°15	16°39	26°12	3°57	3°26	24°53		13°47		T 26
W27	14 53 25	14°49'28	23°45	22°29	28°26		3° 2	16°21	24°54	26°18	16°38	26°13	3°57	3°23	25° 0		13°52		W27
T 28	14 57 22	15°47'20	5°33	24° 3	29°11		2°56	16°25	24°58	26°21	16°37	26°13	3°56	3°20	25° 6		13°56		T 28
F 29	15 1 18	16°45'09	17°22	25°40	29°54		2°51	16°30	25° 3	26°24	16°36	26°14	3°54	3°17	25°13		14° 0		F 29
S 30	15 5 15	17°42'57	29°16	27°Y18	0°37		2°47	16°34	25°37	26°27	16°36	26°15	3°52	3°14	25°20		14° 5		S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	7n42	24n48	3n 1	2s15	1s 2	24n19	3n10	1s40	2n24	17n20	1n 8	21n56	0n30	23n39	0n13	6n17	1n16	25n25	4n30
S 2	8 4	27 0	3 51	2 20	1 15	24 33	3 13	1 33	2 22	17 20	1 8	21 55	0 30	23 39	0 13	6 17	1 16	25 25	4 30
S 3	8 26	28 0	4 31	2 23	1 26	24 46	3 15	1 26	2 20	17 19	1 8	21 55	0 30	23 39	0 13	6 18	1 16	25 25	4 30
M 4	8 48	27 40	4 59	2 23	1 37	24 59	3 18	1 20	2 17	17 19	1 8	21 55	0 30	23 39	0 13	6 18	1 16	25 25	4 30
T 5	9 9	25 58	5 15	2 20	1 48	25 11	3 21	1 14	2 15	17 19	1 8	21 55	0 30	23 39	0 13	6 19	1 16	25 25	4 30
W 6	9 31	22 54	5 16	2 16	1 57	25 22	3 23	1 8	2 12	17 19	1 7	21 54	0 30	23 39	0 13	6 19	1 16	25 25	4 30
T 7	9 52	18 37	5 0	2 9	2 6	25 33	3 26	1 2	2 10	17 18	1 7	21 54	0 30	23 39	0 13	6 20	1 16	25 25	4 30
F 8	10 14	13 15	4 27	2 0	2 14	25 44	3 28	0 57	2 7	17 18	1 7	21 53	0 30	23 39	0 13	6 20	1 16	25 25	4 30
S 9	10 35	7 3	3 38	1 49	2 22	25 54	3 31	0 51	2 5	17 18	1 7	21 53	0 30	23 39	0 13	6 21	1 16	25 25	4 30
S 10	10 56	0 18	2 33	1 35	2 28	26 3	3 33	0 46	2 2	17 17	1 7	21 53	0 30	23 39	0 13	6 21	1 16	25 24	4 29
M 11	11 16	6s38	1 17	1 20	2 34	26 12	3 35	0 42	2 0	17 17	1 7	21 52	0 30	23 39	0 13	6 22	1 16	25 24	4 29
T 12	11 37	13 19	0s 6	1 3	2 39	26 20	3 37	0 37	1 57	17 16	1 7	21 52	0 30	23 40	0 13	6 22	1 16	25 24	4 29
W 13	11 57	19 15	1 29	0 44	2 44	26 28	3 38	0 33	1 54	17 15	1 7	21 51	0 30	23 40	0 13	6 22	1 16	25 24	4 29
T 14	12 18	23 56	2 45	0 24	2 48	26 35	3 40	0 29	1 51	17 15	1 6	21 51	0 30	23 40	0 13	6 23	1 16	25 24	4 29
F 15	12 38	26 56	3 49	0 1	2 51	26 41	3 42	0 25	1 49	17 14	1 6	21 50	0 30	23 40	0 13	6 23	1 16	25 24	4 29
S 16	12 57	28 3	4 37	0n23	2 54	26 47	3 43	0 21	1 46	17 13	1 6	21 50	0 30	23 40	0 13	6 23	1 16	25 24	4 29
S 17	13 17	27 16	5 7	0 48	2 55	26 53	3 44	0 18	1 43	17 12	1 6	21 49	0 30	23 40	0 13	6 24	1 16	25 24	4 29
M 18	13 36	24 50	5 18	1 15	2 57	26 58	3 45	0 15	1 41	17 11	1 6	21 49	0 30	23 40	0 13	6 24	1 16	25 24	4 29
T 19	13 55	21 6	5 11	1 44	2 57	27 2	3 46	0 13	1 38	17 10	1 6	21 48	0 30	23 40	0 13	6 25	1 15	25 23	4 29
W 20	14 14	16 26	4 48	2 14	2 57	27 6	3 47	0 10	1 35	17 9	1 6	21 48	0 30	23 40	0 13	6 25	1 15	25 23	4 29
T 21	14 33	11 10	4 12	2 45	2 57	27 9	3 48	0 8	1 32	17 8	1 6	21 47	0 30	23 40	0 13	6 25	1 15	25 23	4 29
F 22	14 52	5 34	3 25	3 17	2 55	27 12	3 48	0 7	1 30	17 7	1 5	21 46	0 31	23 40	0 13	6 26	1 15	25 23	4 29
S 23	15 10	0n10	2 29	3 51	2 54	27 14	3 48	0 5	1 27	17 6	1 5	21 46	0 31	23 40	0 13	6 26	1 15	25 23	4 29
S 24	15 28	5 49	1 27	4 26	2 51	27 16	3 48	0 4	1 24	17 5	1 5	21 45	0 31	23 41	0 13	6 26	1 15	25 23	4 29
M 25	15 45	11 12	0 21	5 2	2 48	27 17	3 48	0 3	1 21	17 4	1 5	21 45	0 31	23 41	0 13	6 26	1 15	25 22	4 29
T 26	16 3	16 10	0n44	5 39	2 45	27 17	3 48	0 3	1 19	17 2	1 5	21 44	0 31	23 41	0 13	6 27	1 15	25 22	4 29
W 27	16 20	20 30	1 48	6 18	2 40	27 18	3 47	0 3	1 16	17 1	1 5	21 43	0 31	23 41	0 13	6 27	1 15	25 22	4 29
T 28	16 37	24 1	2 46	6 57	2 36	27 17	3 47	0 3	1 13	16 59	1 5	21 42	0 31	23 41	0 13	6 27	1 15	25 22	4 29
F 29	16 54	26 32	3 38	7 37	2 31	27 16	3 46	0 3	1 11	16 58	1 4	21 42	0 31	23 41	0 13	6 27	1 15	25 22	4 29
S 30	17n10	27n51	4n21	8n18	2s25	27n15	3n44	0s 4	1n 8	16n56	1n 4	21n41	0n31	23n41	0n13	6n28	1n15	25n22	4n29

Julian Day Number = 2249299.5, Delta T = 06m36s

Ecliptic obliquity = 23°30'48, Nutation = - 0°00'10, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°00'54, Lahiri = 16°07'54 Julian Calendar 1 Apr. 1446 == Greg. Calendar 10 Apr. 1446

ASTRODIENST EPHEMERIS for the year 1446

geocentric

MAY 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	15 9 12	18°40'44	11°18'18	28°59'59	1°19'19	2°R43	16°13'39	25°12'12	26°13'30	16°R35	26°16'16	3°R50	3°11'11	25°26'26	14°8'9	S 1
M 2	15 13 8	19°38'29	23°30'30	0°42'42	1°59'59	2°41'41	16°44'44	25°16'16	26°33'33	16°16'35	26°16'16	3°48'48	3°7'7	25°33'33	14°13'13	M 2
T 3	15 17 5	20°36'12	5°12'55	2°27'27	2°39'39	2°39'39	16°49'49	25°21'21	26°36'36	16°34'34	26°17'17	3°47'47	3°4'4	25°40'40	14°18'18	T 3
W 4	15 21 1	21°33'53	18°39'39	4°14'14	3°17'17	2°38'38	16°55'55	25°26'26	26°39'39	16°34'34	26°18'18	3°D46	3°1'1	25°46'46	14°22'22	W 4
T 5	15 24 58	22°31'33	1°17'43	6°3'3	3°55'55	2°D38	17°0'0	25°30'30	26°42'42	16°33'33	26°19'19	3°46'46	2°58'58	25°53'53	14°26'26	T 5
F 6	15 28 54	23°29'12	15°12'12	7°55'55	4°31'31	2°38'38	17°6'6	25°35'35	26°45'45	16°33'33	26°20'20	3°47'47	2°55'55	26°0'0	14°31'31	F 6
S 7	15 32 51	24°26'48	29°6'6	9°48'48	5°5'5	2°40'40	17°11'11	25°40'40	26°48'48	16°32'32	26°21'21	3°49'49	2°52'52	26°6'6	14°35'35	S 7
S 8	15 36 47	25°24'23	13°12'27	11°43'43	5°39'39	2°42'42	17°17'17	25°45'45	26°51'51	16°32'32	26°22'22	3°50'50	2°48'48	26°13'13	14°39'39	S 8
M 9	15 40 44	26°21'57	28°10'10	13°41'41	6°11'11	2°45'45	17°23'23	25°50'50	26°54'54	16°32'32	26°23'23	3°R51	2°45'45	26°19'19	14°43'43	M 9
T 10	15 44 41	27°19'30	13°12'12	15°40'40	6°41'41	2°48'48	17°29'29	25°55'55	26°58'58	16°31'31	26°24'24	3°50'50	2°42'42	26°26'26	14°48'48	T 10
W 11	15 48 37	28°17'01	28°25'25	17°42'42	7°10'10	2°53'53	17°36'36	26°1'1	27°1'1	16°31'31	26°25'25	3°49'49	2°39'39	26°33'33	14°52'52	W 11
T 12	15 52 34	29°14'31	13°12'12	19°45'45	7°37'37	2°58'58	17°42'42	26°6'6	27°4'4	16°31'31	26°26'26	3°47'47	2°36'36	26°39'39	14°56'56	T 12
F 13	15 56 30	0°12'00	28°42'42	21°50'50	8°3'3	3°4'4	17°49'49	26°11'11	27°8'8	16°30'30	26°27'27	3°43'43	2°32'32	26°46'46	15°1'1	F 13
S 14	16 0 27	1°9'29	13°12'29	23°56'56	8°27'27	3°10'10	17°55'55	26°17'17	27°11'11	16°30'30	26°28'28	3°40'40	2°29'29	26°53'53	15°5'5	S 14
S 15	16 4 23	2°6'56	27°51'51	26°4'4	8°50'50	3°17'17	18°2'2	26°22'22	27°14'14	16°30'30	26°29'29	3°36'36	2°26'26	26°59'59	15°9'9	S 15
M 16	16 8 20	3°4'22	11°12'46	28°14'14	9°11'11	3°25'25	18°9'9	26°28'28	27°18'18	16°30'30	26°30'30	3°34'34	2°23'23	27°6'6	15°13'13	M 16
T 17	16 12 17	4°1'48	25°13'13	0°12'24	9°29'29	3°34'34	18°16'16	26°34'34	27°21'21	16°30'30	26°31'31	3°32'32	2°20'20	27°13'13	15°17'17	T 17
W 18	16 16 13	4°59'13	8°14'14	2°35'35	9°46'46	3°43'43	18°23'23	26°39'39	27°24'24	16°30'30	26°32'32	3°D32	2°17'17	27°19'19	15°22'22	W 18
T 19	16 20 10	5°56'38	20°51'51	4°47'47	10°1'1	3°53'53	18°31'31	26°45'45	27°28'28	16°30'30	26°33'33	3°33'33	2°13'13	27°26'26	15°26'26	T 19
F 20	16 24 6	6°54'01	3°11'11	6°59'59	10°14'14	4°3'3	18°38'38	26°51'51	27°31'31	16°D30	26°35'35	3°34'34	2°10'10	27°33'33	15°30'30	F 20
S 21	16 28 3	7°51'24	15°16'16	9°11'11	10°25'25	4°14'14	18°46'46	26°57'57	27°34'34	16°30'30	26°36'36	3°36'36	2°7'7	27°39'39	15°34'34	S 21
S 22	16 31 59	8°48'47	27°11'11	11°23'23	10°34'34	4°26'26	18°54'54	27°3'3	27°38'38	16°30'30	26°37'37	3°37'37	2°4'4	27°46'46	15°38'38	S 22
M 23	16 35 56	9°46'09	9°1'1	13°34'34	10°41'41	4°38'38	19°2'2	27°9'9	27°41'41	16°30'30	26°38'38	3°R37	2°1'1	27°53'53	15°42'42	M 23
T 24	16 39 52	10°43'30	20°48'48	15°44'44	10°45'45	4°51'51	19°10'10	27°15'15	27°45'45	16°30'30	26°39'39	3°35'35	1°58'58	27°59'59	15°46'46	T 24
W 25	16 43 49	11°40'50	2°11'36	17°54'54	10°R48	5°4'4	19°18'18	27°21'21	27°48'48	16°30'30	26°41'41	3°32'32	1°54'54	28°6'6	15°50'50	W 25
T 26	16 47 45	12°38'10	14°26'26	20°2'2	10°47'47	5°19'19	19°26'26	27°27'27	27°52'52	16°30'30	26°42'42	3°27'27	1°51'51	28°13'13	15°54'54	T 26
F 27	16 51 42	13°35'29	26°21'21	22°9'9	10°45'45	5°33'33	19°34'34	27°34'34	27°55'55	16°31'31	26°43'43	3°21'21	1°48'48	28°19'19	15°58'58	F 27
S 28	16 55 39	14°32'48	8°23'23	24°14'14	10°40'40	5°48'48	19°43'43	27°40'40	27°59'59	16°31'31	26°45'45	3°13'13	1°45'45	28°26'26	16°2'2	S 28
S 29	16 59 35	15°30'06	20°33'33	26°18'18	10°33'33	6°4'4	19°51'51	27°46'46	28°2'2	16°31'31	26°46'46	3°6'6	1°42'42	28°33'33	16°6'6	S 29
M 30	17 3 32	16°27'23	2°12'53	28°19'19	10°23'23	6°20'20	20°0'0	27°53'53	28°6'6	16°32'32	26°47'47	2°59'59	1°38'38	28°39'39	16°10'10	M 30
T 31	17 7 28	17°12'43	15°12'25	0°12'19	10°11'11	6°12'37	20°12'9	27°59'59	28°11'11	16°16'32	26°49'49	2°53'53	1°35'35	28°46'46	16°14'14	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	17n26	27n53	4n52	8n59	2s19	27n13	3n43	0s 5	1n 6	16n55	1n 4	21n40	0n31	23n41	0n13	6n28
M 2	17 42	26 34	5 11	9 42	2 12	27 11	3 41	0 6	1 3	16 53	1 4	21 39	0 31	23 41	0 13	6 28
T 3	17 57	23 57	5 16	10 25	2 5	27 9	3 40	0 8	1 0	16 52	1 4	21 39	0 31	23 41	0 13	6 28
W 4	18 13	20 7	5 5	11 8	1 57	27 6	3 37	0 10	0 58	16 50	1 4	21 38	0 31	23 41	0 13	6 28
T 5	18 28	15 14	4 39	11 52	1 49	27 2	3 35	0 12	0 55	16 48	1 4	21 37	0 31	23 41	0 13	6 29
F 6	18 42	9 30	3 57	12 37	1 40	26 58	3 32	0 15	0 53	16 46	1 4	21 36	0 31	23 41	0 13	6 29
S 7	18 56	3 7	3 0	13 21	1 31	26 54	3 29	0 17	0 50	16 44	1 4	21 35	0 31	23 42	0 13	6 29
S 8	19 10	3s38	1 50	14 6	1 22	26 50	3 26	0 20	0 48	16 43	1 3	21 34	0 31	23 42	0 13	6 29
M 9	19 24	10 22	0 31	14 51	1 12	26 45	3 23	0 24	0 46	16 41	1 3	21 33	0 31	23 42	0 13	6 29
T 10	19 37	16 40	0s51	15 35	1 2	26 39	3 19	0 27	0 43	16 39	1 3	21 32	0 31	23 42	0 13	6 29
W 11	19 50	22 0	2 11	16 20	0 52	26 34	3 15	0 31	0 41	16 37	1 3	21 31	0 31	23 42	0 13	6 29
T 12	20 3	25 51	3 22	17 4	0 42	26 28	3 10	0 36	0 39	16 34	1 3	21 30	0 31	23 42	0 13	6 29
F 13	20 15	27 48	4 17	17 47	0 31	26 21	3 5	0 40	0 36	16 32	1 3	21 30	0 31	23 42	0 13	6 29
S 14	20 27	27 43	4 55	18 29	0 20	26 15	3 0	0 45	0 34	16 30	1 3	21 29	0 31	23 42	0 13	6 29
S 15	20 39	25 45	5 12	19 11	0 10	26 8	2 55	0 49	0 32	16 28	1 3	21 28	0 32	23 42	0 13	6 29
M 16	20 50	22 16	5 10	19 51	0n 1	26 0	2 49	0 55	0 30	16 26	1 3	21 26	0 32	23 42	0 13	6 29
T 17	21 1	17 44	4 52	20 29	0 12	25 53	2 43	1 0	0 27	16 23	1 2	21 25	0 32	23 42	0 13	6 29
W 18	21 12	12 30	4 18	21 6	0 22	25 45	2 36	1 6	0 25	16 21	1 2	21 24	0 32	23 42	0 13	6 29
T 19	21 22	6 54	3 33	21 41	0 32	25 37	2 29	1 11	0 23	16 19	1 2	21 23	0 32	23 42	0 13	6 29
F 20	21 32	1 10	2 39	22 14	0 42	25 29	2 22	1 17	0 21	16 16	1 2	21 22	0 32	23 43	0 13	6 29
S 21	21 41	4n31	1 39	22 45	0 52	25 20	2 14	1 24	0 19	16 14	1 2	21 21	0 32	23 43	0 13	6 29
S 22	21 50	9 57	0 35	23 13	1 1	25 11	2 6	1 30	0 17	16 11	1 2	21 20	0 32	23 43	0 13	6 29
M 23	21 59	15 1	0n29	23 39	1 9	25 2	1 58	1 37	0 15	16 9	1 2	21 19	0 32	23 43	0 13	6 29
T 24	22 7	19 30	1 32	24 2	1 17	24 53	1 49	1 44	0 13	16 6	1 2	21 18	0 32	23 43	0 13	6 29
W 25	22 15	23 13	2 31	24 22	1 25	24 43	1 39	1 51	0 11	16 3	1 2	21 17	0 32	23 43	0 13	6 29
T 26	22 23	25 58	3 24	24 39	1 31	24 33	1 29	1 58	0 9	16 1	1 2	21 15	0 32	23 43	0 13	6 29
F 27	22 30	27 35	4 7	24 54	1 38	24 23	1 19	2 6	0 7	15 58	1 1	21 14	0 32	23 43	0 13	6 29
S 28	22 37	27 55	4 41	25 6	1 43	24 13	1 8	2 14	0 5	15 55	1 1	21 13	0 32	23 43	0 13	6 29
S 29	22 43	26 54	5 1	25 15	1 48	24 3	0 57	2 22	0 4	15 52	1 1	21 12	0 32	23 43	0 13	6 29
M 30	22 49	24 35	5 9	25 22	1 51	23 52	0 46	2 30	0 2	15 50	1 1	21 11	0 32	23 43	0 13	6 28
T 31	22n55	21n 4	5n 2	25n25	1n55	23n41	0n34	2s38	0n 0	15n47	1n 1	21n 9	0n32	23n43	0n13	6n28

Julian Day Number = 2249329.5, Delta T = 06m36s

Ecliptic obliquity = 23°30'48", Nutation = - 0°00'10", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°00'58", Lahiri = 16°07'58" Julian Calendar 1 May 1446 == Greg. Calendar 10 May 1446

ASTRODIENST EPHEMERIS for the year 1446

geocentric

JUNE 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	17 11 25	18 ^{II} 21'54	28 ^{II} 11	25 ^{II} 16	9°R57	6 ^{II} 55	20 ^{II} 18	28 ^{II} 6	28 ^{II} 13	16 ^{II} 32	26 ^{II} 50	2°R49	1 ^{II} 32	28 ^{II} 53	16 ^{II} 18	W 1
T 2	17 15 21	19°19'09	11 ^{II} 14	4°12	9 ^{II} 40	7°12	20°27	28°12	28°17	16°33	26°52	2°R47	1°29	28°59	16°22	T 2
F 3	17 19 18	20°16'23	24°37	6°5	9°21	7°31	20°36	28°19	28°20	16°33	26°53	2°D47	1°26	29°6	16°26	F 3
S 4	17 23 15	21°13'36	8 ^{II} 22	7°56	8°59	7°50	20°45	28°25	28°24	16°34	26°54	2°48	1°23	29°13	16°29	S 4
S 5	17 27 11	22°10'48	22°29	9°45	8°36	8°9	20°54	28°32	28°27	16°34	26°56	2°49	1°19	29°19	16°33	S 5
M 6	17 31 8	23°7'59	6 ^{II} 59	11°31	8°10	8°29	21°4	28°39	28°31	16°35	26°57	2°R49	1°16	29°26	16°37	M 6
T 7	17 35 4	24°5'11	21°48	13°15	7°42	8°49	21°13	28°46	28°35	16°35	26°59	2°48	1°13	29°33	16°40	T 7
W 8	17 39 1	25°2'21	6 ^{II} 51	14°57	7°13	9°9	21°23	28°53	28°38	16°36	27°0	2°44	1°10	29°39	16°44	W 8
T 9	17 42 57	25°59'32	21°59	16°37	6°41	9°30	21°32	29°0	28°42	16°37	27°2	2°39	1°7	29°46	16°48	T 9
F 10	17 46 54	26°56'42	7 ^{II} 3	18°14	6°9	9°52	21°42	29°6	28°45	16°37	27°3	2°31	1°4	29°53	16°51	F 10
S 11	17 50 50	27°53'52	21°53	19°49	5°35	10°14	21°52	29°13	28°49	16°38	27°5	2°23	1°0	29°59	16°55	S 11
S 12	17 54 47	28°51'02	6 ^{II} 22	21°22	4°59	10°36	22°2	29°20	28°53	16°39	27°6	2°15	0°57	0 ^{II} 6	16°58	S 12
M13	17 58 44	29°48'12	20°23	22°52	4°23	10°59	22°12	29°27	28°56	16°40	27°8	2°8	0°54	0°13	17°2	M13
T 14	18 2 40	0 ^{II} 45'21	3 ^{II} 55	24°20	3°46	11°22	22°22	29°35	29°0	16°40	27°9	2°3	0°51	0°19	17°5	T 14
W15	18 6 37	1°42'31	17°0	25°45	3°9	11°46	22°32	29°42	29°3	16°41	27°11	2°0	0°48	0°26	17°9	W15
T 16	18 10 33	2°39'42	29°39	27°9	2°31	12°10	22°43	29°49	29°7	16°42	27°13	1°D59	0°44	0°33	17°12	T 16
F 17	18 14 30	3°36'52	11°Y58	28°29	1°54	12°34	22°53	29°56	29°11	16°43	27°14	1°59	0°41	0°39	17°16	F 17
S 18	18 18 26	4°34'03	24°1	29°47	1°17	12°58	23°4	0 ^{II} 3	29°14	16°44	27°16	2°0	0°38	0°46	17°19	S 18
S 19	18 22 23	5°31'14	5 ^{II} 54	1 ^{II} 3	0°40	13°23	23°14	0°11	29°18	16°45	27°17	2°R0	0°35	0°53	17°22	S 19
M20	18 26 19	6°28'25	17°42	2°16	0°4	13°49	23°25	0°18	29°21	16°46	27°19	1°58	0°32	0°59	17°25	M20
T 21	18 30 16	7°25'37	29°30	3°27	29°II29	14°14	23°35	0°25	29°25	16°47	27°21	1°55	0°29	1°6	17°29	T 21
W22	18 34 13	8°22'49	11°II20	4°34	28°55	14°41	23°46	0°32	29°29	16°48	27°22	1°49	0°25	1°13	17°32	W22
T 23	18 38 9	9°20'01	23°15	5°39	28°23	15°7	23°57	0°40	29°32	16°49	27°24	1°40	0°22	1°19	17°35	T 23
F 24	18 42 6	10°17'14	5 ^{II} 19	6°41	27°52	15°34	24°8	0°47	29°36	16°50	27°25	1°30	0°19	1°26	17°38	F 24
S 25	18 46 2	11°14'27	17°32	7°40	27°22	16°1	24°19	0°55	29°39	16°51	27°27	1°18	0°16	1°33	17°41	S 25
S 26	18 49 59	12°11'40	29°55	8°36	26°55	16°28	24°30	1°2	29°43	16°52	27°29	1°5	0°13	1°39	17°44	S 26
M27	18 53 55	13°8'54	12 ^{II} 30	9°29	26°29	16°56	24°41	1°10	29°46	16°53	27°30	0°54	0°10	1°46	17°47	M27
T 28	18 57 52	14°6'07	25°15	10°18	26°6	17°24	24°52	1°17	29°50	16°55	27°32	0°44	0°6	1°53	17°50	T 28
W29	19 1 49	15°3'21	8 ^{II} 13	11°4	25°45	17°52	25°4	1°25	29°53	16°56	27°34	0°37	0°3	1°59	17°52	W29
T 30	19 5 45	16 ^{II} 0'35	21°II23	11 ^{II} 47	25°II25	18 ^{II} 21	25 ^{II} 15	1 ^{II} 32	29°II57	16°II57	27°35	0 ^{II} 33	0 ^{II} 0	2°II6	17°55	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	23n 0	16n30	4n39	25n27	1n57	23n30	0n22	2s47	0s 2	15n44	1n 1	21n 8	0n32	23n43	0n13	6n28	1n14	25n14	4n28	12n29	12n 3	22n17	14n44	2s 7			
T 2	23 5	11 6	4 2	25 26	1 59	23 19	0 9	2 55	0 3	15 41	1 1	21 7	0 32	23 43	0 13	6 28	1 14	25 14	4 28	12 29	12 2	22 19	14 45	2 7			
F 3	23 9	5 4	3 11	25 22	2 0	23 7	0s 4	3 4	0 5	15 38	1 1	21 6	0 32	23 43	0 13	6 28	1 14	25 13	4 28	12 29	12 0	22 21	14 46	2 7			
S 4	23 13	1s22	2 8	25 16	2 0	22 56	0 17	3 13	0 7	15 35	1 1	21 4	0 32	23 43	0 13	6 27	1 14	25 13	4 28	12 29	11 59	22 24	14 47	2 7			
S 5	23 17	7 55	0 55	25 8	2 0	22 44	0 30	3 22	0 8	15 32	1 1	21 3	0 33	23 44	0 13	6 27	1 14	25 13	4 28	12 29	11 58	22 26	14 48	2 7			
M 6	23 20	14 14	0s22	24 59	1 58	22 32	0 44	3 32	0 10	15 29	1 1	21 2	0 33	23 44	0 13	6 27	1 14	25 12	4 28	12 29	11 57	22 28	14 49	2 7			
T 7	23 23	19 53	1 40	24 47	1 57	22 20	0 58	3 41	0 12	15 26	1 0	21 0	0 33	23 44	0 13	6 27	1 14	25 12	4 28	12 29	11 56	22 30	14 50	2 8			
W 8	23 25	24 21	2 52	24 34	1 54	22 7	1 12	3 51	0 13	15 22	1 0	20 59	0 33	23 44	0 13	6 26	1 14	25 12	4 28	12 28	11 55	22 32	14 51	2 8			
T 9	23 27	27 8	3 53	24 19	1 51	21 55	1 26	4 0	0 15	15 19	1 0	20 58	0 33	23 44	0 13	6 26	1 14	25 12	4 28	12 26	11 54	22 35	14 52	2 8			
F 10	23 29	27 55	4 36	24 2	1 47	21 42	1 40	4 10	0 16	15 16	1 0	20 56	0 33	23 44	0 13	6 26	1 14	25 11	4 28	12 23	11 53	22 37	14 53	2 8			
S 11	23 30	26 40	5 1	23 44	1 43	21 29	1 54	4 20	0 18	15 13	1 0	20 55	0 33	23 44	0 13	6 26	1 14	25 11	4 28	12 20	11 52	22 39	14 53	2 8			
S 12	23 30	23 39	5 5	23 25	1 38	21 17	2 9	4 30	0 19	15 9	1 0	20 53	0 33	23 44	0 13	6 25	1 14	25 11	4 28	12 17	11 50	22 41	14 54	2 9			
M13	23 31	19 19	4 50	23 5	1 32	21 4	2 23	4 41	0 21	15 6	1 0	20 52	0 33	23 44	0 13	6 25	1 14	25 10	4 28	12 15	11 49	22 43	14 55	2 9			
T 14	23 31	14 8	4 20	22 43	1 26	20 51	2 36	4 51	0 22	15 3	1 0	20 50	0 33	23 44	0 13	6 25	1 14	25 10	4 28	12 13	11 48	22 46	14 56	2 9			
W15	23 30	8 29	3 37	22 21	1 19	20 39	2 50	5 2	0 24	14 59	1 0	20 49	0 33	23 44	0 13	6 24	1 14	25 10	4 28	12 12	11 47	22 48	14 57	2 9			
T 16	23 29	2 39	2 44	21 58	1 11	20 26	3 3	5 12	0 25	14 56	1 0	20 48	0 33	23 44	0 13	6 24	1 14	25 9	4 28	12 12	11 46	22 50	14 57	2 9			
F 17	23 28	3n 8	1 45	21 34	1 4	20 14	3 16	5 23	0 26	14 52	1 0	20 46	0 33	23 44	0 13	6 23	1 14	25 9	4 28	12 12	11 45	22 52	14 58	2 9			
S 18	23 26	8 41	0 43	21 9	0 55	20 1	3 29	5 34	0 28	14 49	1 0	20 45	0 33	23 44	0 13	6 23	1 14	25 9	4 28	12 12	11 44	22 54	14 59	2 10			
S 19	23 24	13 52	0n21	20 44	0 46	19 50	3 41	5 45	0 29	14 45	1 0	20 43	0 33	23 44	0 13	6 23	1 14	25 9	4 28	12 12	11 43	22 56	15 0	2 10			
M20	23 21	18 29	1 23	20 19	0 37	19 38	3 53	5 56	0 31	14 42	1 0	20 42	0 33	23 44	0 13	6 22	1 14	25 8	4 28	12 12	11 42	22 59	15 0	2 10			
T 21	23 18	22 24	2 21	19 53	0 27	19 27	4 4	6 7	0 32	14 38	1 0	20 40	0 33	23 44	0 13	6 22	1 14	25 8	4 28	12 11	11 40	23 1	15 1	2 10			
W22	23 15	25 24	3 13	19 27	0 17	19 16	4 15	6 19	0 33	14 34	0 59	20 39	0 34	23 44	0 13	6 21	1 14	25 8	4 28	12 8	11 39	23 3	15 2	2 10			
T 23	23 11	27 17	3 57	19 1	0 6	19 6	4 25	6 30	0 34	14 31	0 59	20 37	0 34	23 44	0 13	6 21	1 13	25 7	4 28	12 6	11 38	23 5	15 2	2 11			
F 24	23 7	27 55	4 31	18 35	0s 5	18 56	4 34	6 41	0 36	14 27	0 59	20 35	0 34	23 44	0 13	6 20	1 13	25 7	4 28	12 2	11 37	23 7	15 3	2 11			
S 25	23 2	27 12	4 53	18 9	0 16	18 46	4 43	6 53	0 37	14 23	0 59	20 34	0 34	23 44	0 13	6 20	1 13	25 7	4 28	11 58	11 36	23 9	15 4	2 11			
S 26	22 57	25 8	5 1	17 43	0 28	18 38	4 51	7 5	0 38	14 20	0 59	20 32	0 34	23 44	0 13	6 20	1 13	25 6	4 28	11 53	11 35	23 11	15 4	2 11			
M27	22 52	21 50	4 56	17 17	0 40	18 29	4 59	7 17	0 39	14 16	0 59	20 31	0 34	23 44	0 13	6 19	1 13	25 6	4 28	11 49	11 34	23 13	15 5	2 11			
T 28	22 46	17 27	4 35	16 52	0 53	18 22	5 6	7 28	0 40	14 12	0 59	20 29	0 34	23 44	0 13	6 19	1 13	25 6	4 28	11 46	11 33	23 16	15 5	2 12			
W29	22 40	12 13	4 0	16 27	1 6	18 15	5 12	7 40	0 42	14 8	0 59	20 28	0 34	23 44	0 13	6 18	1 13	25 6	4 28	11 43	11 32	23 18	15 6	2 12			
T 30	22n33	6n21	3n11	16n 3	1s19	18n 8	5s18	7s52	0s43	14n 4	0n59	20n26	0n34	23n44	0n14	6n18	1n13	25n 5	4n28	11n42	11n30	23n20	15n 7	2s12			

ASTRODIENST EPHEMERIS for the year 1446

geocentric

JULY 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	19 9 42	16 ⁵⁵ 49	4 ⁴⁸	12 ²⁵	25°R 9	18 ⁴⁵ 50	25 ⁰² 27	1 ⁴⁰	0 ⁰⁰ 0	16 ⁵⁸	27 ³⁷	0°R30	29 ⁵⁷	2 ¹¹ 13	17 ⁵⁸	F 1
S 2	19 13 38	17°55'03	18°29	13° 0	24 ¹¹ 54	19°19	25°38	1°47	0° 4	17° 0	27°39	0°D30	29°54	2°19	18° 1	S 2
S 3	19 17 35	18°52'17	2 ¹¹ 27	13°31	24°42	19°48	25°50	1°55	0° 7	17° 1	27°41	0°R30	29°50	2°26	18° 3	S 3
M 4	19 21 31	19°49'32	16°42	13°57	24°33	20°18	26° 1	2° 3	0°11	17° 2	27°42	0 ⁸ 29	29°47	2°33	18° 6	M 4
T 5	19 25 28	20°46'47	1 ¹⁷ 13	14°19	24°25	20°48	26°13	2°10	0°14	17° 4	27°44	0°27	29°44	2°39	18° 8	T 5
W 6	19 29 24	21°44'02	15°56	14°37	24°20	21°18	26°24	2°18	0°18	17° 5	27°46	0°22	29°41	2°46	18°11	W 6
T 7	19 33 21	22°41'18	0 ³ 46	14°49	24°18	21°49	26°36	2°25	0°21	17° 7	27°47	0°14	29°38	2°53	18°13	T 7
F 8	19 37 18	23°38'34	15°35	14°57	24°D17	22°20	26°48	2°33	0°25	17° 8	27°49	0° 4	29°35	2°59	18°16	F 8
S 9	19 41 14	24°35'51	0 ¹⁴	15°R 0	24°20	22°51	27° 0	2°41	0°28	17°10	27°51	29 ⁵³	29°31	3° 6	18°18	S 9
S 10	19 45 11	25°33'09	14°36	14°59	24°24	23°22	27°12	2°48	0°31	17°11	27°53	29°42	29°28	3°13	18°20	S 10
M 11	19 49 7	26°30'27	28°34	14°52	24°30	23°54	27°24	2°56	0°35	17°13	27°54	29°32	29°25	3°19	18°23	M 11
T 12	19 53 4	27°27'47	12 ¹¹ 7	14°39	24°39	24°26	27°36	3° 4	0°38	17°14	27°56	29°24	29°22	3°26	18°25	T 12
W 13	19 57 0	28°25'07	25°12	14°22	24°50	24°58	27°48	3°12	0°41	17°16	27°58	29°19	29°19	3°33	18°27	W 13
T 14	20 0 57	29°22'28	7 ¹⁵ 54	14° 0	25° 3	25°30	28° 0	3°19	0°44	17°17	27°59	29°16	29°16	3°39	18°29	T 14
F 15	20 4 53	0 ¹⁹ 51	20°14	13°34	25°18	26° 2	28°12	3°27	0°48	17°19	28° 1	29°15	29°12	3°46	18°31	F 15
S 16	20 8 50	1°17'15	2 ¹⁸ 19	13° 2	25°35	26°35	28°24	3°35	0°51	17°21	28° 3	29°15	29° 9	3°53	18°33	S 16
S 17	20 12 47	2°14'40	14°13	12°27	25°54	27° 8	28°37	3°42	0°54	17°22	28° 5	29°15	29° 6	3°59	18°35	S 17
M 18	20 16 43	3°12'06	26° 2	11°48	26°14	27°41	28°49	3°50	0°57	17°24	28° 6	29°13	29° 3	4° 6	18°37	M 18
T 19	20 20 40	4° 9'33	7 ¹¹ 51	11° 6	26°37	28°14	29° 1	3°58	1° 1	17°26	28° 8	29°10	29° 0	4°13	18°39	T 19
W 20	20 24 36	5° 7'02	19°44	10°21	27° 1	28°48	29°14	4° 6	1° 4	17°28	28°10	29° 3	28°56	4°19	18°40	W 20
T 21	20 28 33	6° 4'32	1 ¹³ 46	9°34	27°26	29°22	29°26	4°13	1° 7	17°29	28°11	28°55	28°53	4°26	18°42	T 21
F 22	20 32 29	7° 2'03	13°59	8°47	27°54	29°56	29°39	4°21	1°10	17°31	28°13	28°43	28°50	4°33	18°44	F 22
S 23	20 36 26	7°59'35	26°25	7°59	28°23	0 ¹¹ 30	29°51	4°29	1°13	17°33	28°15	28°31	28°47	4°39	18°45	S 23
S 24	20 40 22	8°57'09	9 ¹¹ 4	7°13	28°53	1° 5	0 ¹¹ 4	4°37	1°16	17°35	28°17	28°18	28°44	4°46	18°47	S 24
M 25	20 44 19	9°54'44	21°57	6°27	29°25	1°39	0°16	4°44	1°19	17°37	28°18	28° 6	28°41	4°53	18°48	M 25
T 26	20 48 16	10°52'19	5 ¹¹ 2	5°45	29°58	2°14	0°29	4°52	1°22	17°38	28°20	27°55	28°37	4°59	18°50	T 26
W 27	20 52 12	11°49'56	18°19	5° 6	0 ¹³ 32	2°49	0°41	5° 0	1°25	17°40	28°22	27°48	28°34	5° 6	18°51	W 27
T 28	20 56 9	12°47'34	1 ¹¹ 46	4°31	1° 8	3°24	0°54	5° 7	1°28	17°42	28°23	27°43	28°31	5°13	18°52	T 28
F 29	21 0 5	13°45'13	15°23	4° 1	1°44	4° 0	1° 7	5°15	1°31	17°44	28°25	27°41	28°28	5°19	18°53	F 29
S 30	21 4 2	14°42'53	29°11	3°37	2°23	4°35	1°19	5°23	1°34	17°46	28°27	27°D40	28°25	5°26	18°55	S 30
S 31	21 7 58	15 ¹⁰ 40'34	13 ¹¹ 8	3 ¹¹ 18	3 ¹¹ 2	5 ¹¹ 11	1 ¹¹ 32	5 ¹¹ 30	1 ¹¹ 37	17 ¹¹ 48	28 ¹¹ 28	27°R40	28 ¹¹ 22	5 ¹¹ 33	18 ¹¹ 56	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
F 1	22n26	0n 6	2n12	15n39	1s32	18n 3	5s23	8s 4	0s44	14n 0	0n59	20n24	0n34	23n44	0n14	6n17	1n13	25n 5	4n28	11n41	11n29	23n22	15n 7	2s12			
S 2	22 19	6s17	1 3	15 16	1 46	17 57	5 28	8 17	0 45	13 56	0 59	20 23	0 34	23 44	0 14	6 16	1 13	25 5	4 28	11 41	11 28	23 24	15 8	2 12			
S 3	22 11	12 31	0s10	14 55	1 59	17 53	5 32	8 29	0 46	13 52	0 59	20 21	0 34	23 44	0 14	6 16	1 13	25 4	4 28	11 41	11 27	23 26	15 8	2 13			
M 4	22 3	18 14	1 25	14 34	2 13	17 49	5 35	8 41	0 47	13 48	0 59	20 19	0 34	23 44	0 14	6 15	1 13	25 4	4 29	11 41	11 26	23 28	15 9	2 13			
T 5	21 54	22 59	2 35	14 14	2 27	17 46	5 38	8 53	0 48	13 44	0 59	20 18	0 34	23 44	0 14	6 15	1 13	25 4	4 29	11 40	11 25	23 30	15 9	2 13			
W 6	21 45	26 20	3 36	13 56	2 41	17 43	5 41	9 6	0 49	13 40	0 59	20 16	0 35	23 44	0 14	6 14	1 13	25 4	4 29	11 38	11 24	23 32	15 10	2 13			
T 7	21 36	27 53	4 22	13 40	2 54	17 41	5 42	9 18	0 50	13 36	0 59	20 14	0 35	23 44	0 14	6 14	1 13	25 3	4 29	11 35	11 23	23 34	15 10	2 14			
F 8	21 26	27 25	4 51	13 24	3 8	17 40	5 44	9 31	0 51	13 32	0 59	20 13	0 35	23 44	0 14	6 13	1 13	25 3	4 29	11 32	11 21	23 36	15 11	2 14			
S 9	21 16	25 3	5 1	13 11	3 21	17 39	5 45	9 43	0 52	13 28	0 59	20 11	0 35	23 44	0 14	6 12	1 13	25 3	4 29	11 28	11 20	23 38	15 11	2 14			
S 10	21 6	21 8	4 51	12 59	3 34	17 39	5 45	9 56	0 53	13 24	0 59	20 9	0 35	23 44	0 14	6 12	1 13	25 2	4 29	11 24	11 19	23 40	15 11	2 14			
M11	20 55	16 7	4 23	12 50	3 46	17 39	5 46	10 8	0 54	13 20	0 59	20 8	0 35	23 44	0 14	6 11	1 13	25 2	4 29	11 21	11 18	23 42	15 12	2 14			
T 12	20 44	10 27	3 42	12 42	3 58	17 39	5 45	10 21	0 55	13 16	0 59	20 6	0 35	23 44	0 14	6 11	1 13	25 2	4 29	11 18	11 17	23 44	15 12	2 15			
W13	20 32	4 30	2 50	12 36	4 8	17 40	5 45	10 34	0 56	13 12	0 59	20 4	0 35	23 44	0 14	6 10	1 13	25 1	4 29	11 16	11 16	23 46	15 13	2 15			
T 14	20 21	1n27	1 51	12 33	4 18	17 42	5 44	10 46	0 57	13 7	0 59	20 3	0 35	23 44	0 14	6 9	1 13	25 1	4 29	11 15	11 15	23 48	15 13	2 15			
F 15	20 9	7 12	0 48	12 32	4 27	17 43	5 43	10 59	0 58	13 3	0 59	20 1	0 35	23 44	0 14	6 9	1 13	25 1	4 29	11 15	11 14	23 50	15 13	2 15			
S 16	19 56	12 34	0n16	12 33	4 35	17 46	5 41	11 12	0 59	12 59	0 59	19 59	0 35	23 44	0 14	6 8	1 13	25 1	4 29	11 15	11 12	23 52	15 14	2 16			
S 17	19 43	17 24	1 18	12 37	4 42	17 48	5 39	11 25	1 0	12 55	0 59	19 57	0 35	23 44	0 14	6 7	1 13	25 0	4 29	11 14	11 11	23 54	15 14	2 16			
M18	19 30	21 32	2 17	12 43	4 47	17 51	5 37	11 37	1 1	12 50	0 59	19 56	0 35	23 44	0 14	6 7	1 13	25 0	4 29	11 14	11 10	23 56	15 14	2 16			
T 19	19 17	24 48	3 9	12 51	4 50	17 54	5 35	11 50	1 1	12 46	0 59	19 54	0 36	23 44	0 14	6 6	1 13	25 0	4 30	11 13	11 9	23 58	15 14	2 16			
W20	19 3	27 0	3 53	13 1	4 52	17 57	5 32	12 3	1 2	12 42	0 59	19 52	0 36	23 44	0 14	6 5	1 13	25 0	4 30	11 10	11 8	24 0	15 15	2 17			
T 21	18 49	27 58	4 28	13 13	4 52	18 0	5 29	12 16	1 3	12 37	0 59	19 50	0 36	23 44	0 14	6 4	1 13	24 59	4 30	11 7	11 7	24 2	15 15	2 17			
F 22	18 34	27 36	4 51	13 27	4 50	18 4	5 26	12 29	1 4	12 33	0 59	19 49	0 36	23 44	0 14	6 4	1 13	24 59	4 30	11 3	11 6	24 4	15 15	2 17			
S 23	18 20	25 51	5 0	13 43	4 47	18 8	5 23	12 42	1 5	12 28	0 59	19 47	0 36	23 44	0 14	6 3	1 13	24 59	4 30	10 59	11 5	24 6	15 15	2 17			
S 24	18 5	22 47	4 55	14 0	4 41	18 11	5 19	12 54	1 5	12 24	0 59	19 45	0 36	23 44	0 14	6 2	1 13	24 58	4 30	10 54	11 3	24 8	15 16	2 18			
M25	17 49	18 34	4 35	14 18	4 34	18 15	5 16	13 7	1 6	12 19	0 59	19 43	0 36	23 44	0 14	6 2	1 13	24 58	4 30	10 50	11 2	24 10	15 16	2 18			
T 26	17 34	13 25	4 0	14 37	4 25	18 19	5 12	13 20	1 7	12 15	0 59	19 42	0 36	23 44	0 14	6 1	1 13	24 58	4 30	10 46	11 1	24 12	15 16	2 18			
W27	17 18	7 35	3 12	14 56	4 14	18 23	5 8	13 33	1 8	12 10	0 59	19 40	0 36	23 44	0 14	6 0	1 13	24 58	4 30	10 43	11 0	24 14	15 16	2 18			
T 28	17 1	1 39	2 13	15 16	4 2	18 27	5 4	13 46	1 8	12 6	0 59	19 38	0 36	23 44	0 14	5 59	1 13	24 57	4 30	10 42	10 59	24 16	15 16	2 18			
F 29	16 45	5s 5	1 5	15 36	3 49	18 31	4 59	13 58	1 9	12 1	0 59	19 36	0 36	23 44	0 14	5 59	1 13	24 57	4 30	10 41	10 58	24 18	15 16	2 18			
S 30	16 28	11 20	0s 8	15 56	3 34	18 34	4 55	14 11	1 10	11 57	0 59	19 34	0 37	23 44	0 14	5 58	1 13	24 57	4 31	10 41	10 57	24 20	15 16	2 19			
S 31	16n11	17s 7	1s21	16n15	3s19	18n38	4s51	14s24	1s11	11n52	0n59	19n33	0n37	23n44	0n14	5n57	1n13	24n57	4n31	10n41	10n55	24n22	15n16	2s19			

ASTRODIENST EPHEMERIS for the year 1446

geocentric

AUGUST 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	21 11 55	16Ω38'16	27♍15	3°R 7	3♊42	5♍47	1♎45	5♊38	1♊39	17♎50	28♊30	27°R40	28°Y18	5♊39	18♊57	M 1
T 2	21 15 51	17°35'59	11♊31	3°D 3	4°23	6°23	1°58	5°46	1°42	17°52	28°32	27°Y38	28°15	5°46	18°58	T 2
W 3	21 19 48	18°33'44	25°54	3♊6	5°6	7°0	2°10	5°53	1°45	17°54	28°33	27°34	28°12	5°53	18°58	W 3
T 4	21 23 45	19°31'29	10♊19	3°17	5°49	7°36	2°23	6°1	1°48	17°56	28°35	27°27	28°9	5°59	18°59	T 4
F 5	21 27 41	20°29'16	24°43	3°35	6°33	8°13	2°36	6°8	1°50	17°58	28°36	27°18	28°6	6°6	19°0	F 5
S 6	21 31 38	21°27'04	9♊0	4°1	7°18	8°50	2°49	6°16	1°53	18°0	28°38	27°8	28°2	6°13	19°1	S 6
S 7	21 35 34	22°24'53	23°2	4°35	8°4	9°27	3°2	6°24	1°55	18°2	28°40	26°58	27°59	6°19	19°1	S 7
M 8	21 39 31	23°22'44	6♊47	5°16	8°51	10°4	3°15	6°31	1°58	18°4	28°41	26°48	27°56	6°26	19°2	M 8
T 9	21 43 27	24°20'37	20°10	6°5	9°39	10°41	3°28	6°39	2°1	18°6	28°43	26°41	27°53	6°33	19°2	T 9
W10	21 47 24	25°18'31	3°Y10	7°1	10°27	11°19	3°41	6°46	2°3	18°8	28°44	26°36	27°50	6°39	19°3	W10
T 11	21 51 20	26°16'27	15°49	8°3	11°17	11°56	3°53	6°53	2°5	18°10	28°46	26°34	27°47	6°46	19°3	T 11
F 12	21 55 17	27°14'24	28°10	9°13	12°7	12°34	4°6	7°1	2°8	18°12	28°47	26°D33	27°43	6°53	19°4	F 12
S 13	21 59 14	28°12'24	10♊15	10°28	12°57	13°12	4°19	7°8	2°10	18°14	28°49	26°34	27°40	7°0	19°4	S 13
S 14	22 3 10	29°10'25	22°10	11°49	13°49	13°50	4°32	7°16	2°13	18°17	28°51	26°35	27°37	7°6	19°4	S 14
M15	22 7 7	0♎8'29	4♊1	13°16	14°41	14°28	4°45	7°23	2°15	18°19	28°52	26°R35	27°34	7°13	19°4	M15
T 16	22 11 3	1°6'34	15°51	14°48	15°34	15°7	4°58	7°30	2°17	18°21	28°54	26°34	27°31	7°20	19°R 4	T 16
W17	22 15 0	2°4'42	27°47	16°23	16°27	15°45	5°11	7°38	2°19	18°23	28°55	26°30	27°28	7°26	19°4	W17
T 18	22 18 56	3°2'51	9♊53	18°3	17°21	16°24	5°24	7°45	2°22	18°25	28°57	26°25	27°24	7°33	19°4	T 18
F 19	22 22 53	4°1'02	22°13	19°46	18°15	17°3	5°37	7°52	2°24	18°27	28°58	26°18	27°21	7°40	19°4	F 19
S 20	22 26 49	4°59'16	4♊49	21°32	19°10	17°42	5°50	7°59	2°26	18°30	28°59	26°9	27°18	7°46	19°4	S 20
S 21	22 30 46	5°57'31	17°42	23°20	20°6	18°21	6°3	8°7	2°28	18°32	29°1	26°0	27°15	7°53	19°4	S 21
M22	22 34 43	6°55'48	0♎53	25°11	21°2	19°0	6°16	8°14	2°30	18°34	29°2	25°51	27°12	8°0	19°3	M22
T 23	22 38 39	7°54'07	14°20	27°2	21°59	19°40	6°29	8°21	2°32	18°36	29°4	25°44	27°8	8°6	19°3	T 23
W24	22 42 36	8°52'27	28°0	28°55	22°56	20°19	6°42	8°28	2°34	18°38	29°5	25°39	27°5	8°13	19°2	W24
T 25	22 46 32	9°50'49	11♊52	0♎49	23°54	20°59	6°55	8°35	2°36	18°41	29°6	25°36	27°2	8°20	19°2	T 25
F 26	22 50 29	10°49'13	25°52	2°43	24°52	21°39	7°8	8°42	2°37	18°43	29°8	25°D35	26°59	8°26	19°1	F 26
S 27	22 54 25	11°47'39	9♍57	4°37	25°50	22°19	7°21	8°49	2°39	18°45	29°9	25°36	26°56	8°33	19°1	S 27
S 28	22 58 22	12°46'07	24°5	6°31	26°49	22°59	7°34	8°56	2°41	18°47	29°11	25°37	26°53	8°40	19°0	S 28
M29	23 2 18	13°44'36	8♊16	8°25	27°48	23°39	7°47	9°2	2°43	18°49	29°12	25°R38	26°49	8°46	18°59	M29
T 30	23 6 15	14°43'06	22°16	10°19	28°48	24°19	8°0	9°9	2°44	18°52	29°13	25°38	26°46	8°53	18°58	T 30
W31	23 10 12	15♎41'39	6♊34	12♎12	29♊48	25♍0	8♎13	9♊16	2♊46	18♎54	29♊14	25°Y36	26°Y43	9♊0	18♊57	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	15n54	22s 2	2s30	16n34	3s 2	18n42	4s46	14s37	1s11	11n48	0n59	19n31	0n37	23n44	0n14	5n56
T 2	15 36	25 43	3 31	16 51	2 45	18 45	4 41	14 49	1 12	11 43	0 59	19 29	0 37	23 44	0 14	5 55
W 3	15 19	27 45	4 18	17 7	2 28	18 49	4 36	15 2	1 13	11 39	0 59	19 27	0 37	23 44	0 14	5 55
T 4	15 1	27 55	4 49	17 22	2 11	18 52	4 32	15 15	1 13	11 34	0 59	19 25	0 37	23 44	0 14	5 54
F 5	14 42	26 12	5 2	17 35	1 53	18 55	4 27	15 27	1 14	11 29	0 59	19 24	0 37	23 44	0 14	5 53
S 6	14 24	22 49	4 56	17 46	1 35	18 58	4 22	15 40	1 14	11 25	0 59	19 22	0 37	23 44	0 14	5 52
S 7	14 5	18 10	4 32	17 55	1 18	19 0	4 16	15 52	1 15	11 20	0 59	19 20	0 37	23 44	0 14	5 51
M 8	13 46	12 39	3 53	18 2	1 1	19 2	4 11	16 5	1 16	11 15	0 59	19 18	0 37	23 44	0 14	5 51
T 9	13 27	6 41	3 1	18 6	0 44	19 4	4 6	16 17	1 16	11 11	0 59	19 17	0 38	23 44	0 14	5 50
W10	13 7	0 36	2 2	18 7	0 28	19 6	4 1	16 29	1 17	11 6	0 59	19 15	0 38	23 44	0 14	5 49
T 11	12 48	5n22	0 57	18 6	0 13	19 8	3 55	16 41	1 17	11 1	0 59	19 13	0 38	23 44	0 14	5 48
F 12	12 28	10 59	0n 9	18 2	0n 2	19 9	3 50	16 54	1 18	10 57	0 59	19 11	0 38	23 44	0 14	5 47
S 13	12 8	16 5	1 13	17 55	0 16	19 10	3 44	17 6	1 19	10 52	0 59	19 9	0 38	23 44	0 14	5 47
S 14	11 48	20 30	2 13	17 45	0 29	19 10	3 39	17 18	1 19	10 47	0 59	19 8	0 38	23 44	0 14	5 46
M15	11 27	24 4	3 7	17 32	0 41	19 10	3 33	17 30	1 20	10 43	0 59	19 6	0 38	23 44	0 14	5 45
T 16	11 7	26 37	3 53	17 16	0 52	19 10	3 28	17 42	1 20	10 38	0 59	19 4	0 38	23 44	0 14	5 44
W17	10 46	27 59	4 29	16 57	1 2	19 9	3 22	17 53	1 21	10 33	0 59	19 2	0 38	23 44	0 14	5 43
T 18	10 25	28 2	4 54	16 35	1 11	19 8	3 16	18 5	1 21	10 28	0 59	19 0	0 38	23 44	0 14	5 42
F 19	10 4	26 42	5 6	16 11	1 19	19 7	3 11	18 17	1 22	10 24	0 59	18 59	0 39	23 44	0 14	5 41
S 20	9 43	24 1	5 3	15 43	1 26	19 5	3 5	18 28	1 22	10 19	0 59	18 57	0 39	23 44	0 14	5 41
S 21	9 21	20 5	4 45	15 13	1 32	19 3	2 59	18 40	1 22	10 14	0 59	18 55	0 39	23 44	0 14	5 40
M22	9 0	15 7	4 12	14 41	1 37	19 0	2 54	18 51	1 23	10 9	0 59	18 53	0 39	23 44	0 14	5 39
T 23	8 38	9 19	3 24	14 7	1 41	18 57	2 48	19 2	1 23	10 4	0 59	18 52	0 39	23 44	0 14	5 38
W24	8 16	2 59	2 23	13 31	1 44	18 53	2 42	19 14	1 24	10 0	0 59	18 50	0 39	23 44	0 14	5 37
T 25	7 54	3s35	1 14	12 52	1 46	18 49	2 37	19 25	1 24	9 55	0 59	18 48	0 39	23 44	0 14	5 36
F 26	7 32	10 3	0s 1	12 13	1 48	18 45	2 31	19 36	1 25	9 50	0 59	18 47	0 39	23 44	0 14	5 35
S 27	7 10	16 4	1 17	11 32	1 48	18 40	2 25	19 46	1 25	9 45	0 59	18 45	0 40	23 44	0 14	5 35
S 28	6 47	21 15	2 28	10 49	1 48	18 34	2 20	19 57	1 25	9 40	0 59	18 43	0 40	23 44	0 15	5 34
M29	6 25	25 13	3 30	10 6	1 48	18 29	2 14	20 8	1 26	9 36	1 0	18 41	0 40	23 44	0 15	5 33
T 30	6 2	27 37	4 20	9 22	1 46	18 22	2 8	20 18	1 26	9 31	1 0	18 40	0 40	23 44	0 15	5 32
W31	5n39	28s14	4s53	8n37	1n45	18n15	2s 3	20s28	1s26	9n26	1n 0	18n38	0n40	23n44	0n15	5n31

Julian Day Number = 2249421.5, Delta T = 06m35s

Ecliptic obliquity = 23°30'48", Nutation = - 0°00'07", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°01'10", Lahiri = 16°08'11" Julian Calendar 1 Aug. 1446 == Greg. Calendar 10 Aug. 1446

ASTRODIENST EPHEMERIS for the year 1446
geocentric

SEPTEMBER 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	23 14 8	16 ^h 40'13	20 ^h 38	14 ^h 4	0 ^h 49	25 ^h 40	8 ^h 26	9 ^h 23	2 ^h 47	18 ^h 56	29 ^h 16	25 ^h R33	26 ^h Y40	9 ^h II 6	18 ^h R56	T 1
F 2	23 18 5	17 ^h 38'48	4 ^h 36	15 ^h 56	1 ^h 50	26 ^h 21	8 ^h 39	9 ^h 29	2 ^h 49	18 ^h 58	29 ^h 17	25 ^h Y28	26 ^h 37	9 ^h 13	18 ^h 55	F 2
S 3	23 22 1	18 ^h 37'26	18 ^h 25	17 ^h 47	2 ^h 51	27 ^h 2	8 ^h 52	9 ^h 36	2 ^h 50	19 ^h 1	29 ^h 18	25 ^h 22	26 ^h 34	9 ^h 20	18 ^h 54	S 3
S 4	23 25 58	19 ^h 36'05	2 ^h 1	19 ^h 37	3 ^h 53	27 ^h 43	9 ^h 5	9 ^h 43	2 ^h 52	19 ^h 3	29 ^h 19	25 ^h 16	26 ^h 30	9 ^h 26	18 ^h 53	S 4
M 5	23 29 54	20 ^h 34'46	15 ^h 23	21 ^h 26	4 ^h 55	28 ^h 24	9 ^h 18	9 ^h 49	2 ^h 53	19 ^h 5	29 ^h 20	25 ^h 11	26 ^h 27	9 ^h 33	18 ^h 52	M 5
T 6	23 33 51	21 ^h 33'29	28 ^h 28	23 ^h 15	5 ^h 57	29 ^h 5	9 ^h 31	9 ^h 55	2 ^h 55	19 ^h 7	29 ^h 22	25 ^h 7	26 ^h 24	9 ^h 40	18 ^h 51	T 6
W 7	23 37 47	22 ^h 32'13	11 ^h Y16	25 ^h 2	7 ^h 0	29 ^h 46	9 ^h 44	10 ^h 2	2 ^h 56	19 ^h 9	29 ^h 23	25 ^h 5	26 ^h 21	9 ^h 47	18 ^h 49	W 7
T 8	23 41 44	23 ^h 31'00	23 ^h 47	26 ^h 48	8 ^h 3	0 ^h 28	9 ^h 57	10 ^h 8	2 ^h 57	19 ^h 12	29 ^h 24	25 ^h D 4	26 ^h 18	9 ^h 53	18 ^h 48	T 8
F 9	23 45 40	24 ^h 29'50	6 ^h 3	28 ^h 34	9 ^h 6	1 ^h 9	10 ^h 9	10 ^h 15	2 ^h 58	19 ^h 14	29 ^h 25	25 ^h 4	26 ^h 14	10 ^h 0	18 ^h 46	F 9
S 10	23 49 37	25 ^h 28'41	18 ^h 7	0 ^h 18	10 ^h 10	1 ^h 51	10 ^h 22	10 ^h 21	2 ^h 59	19 ^h 16	29 ^h 26	25 ^h 6	26 ^h 11	10 ^h 7	18 ^h 45	S 10
S 11	23 53 34	26 ^h 27'35	0 ^h II 2	2 ^h 2	11 ^h 14	2 ^h 33	10 ^h 35	10 ^h 27	3 ^h 0	19 ^h 18	29 ^h 27	25 ^h 7	26 ^h 8	10 ^h 13	18 ^h 43	S 11
M12	23 57 30	27 ^h 26'31	11 ^h 53	3 ^h 45	12 ^h 18	3 ^h 14	10 ^h 48	10 ^h 33	3 ^h 1	19 ^h 21	29 ^h 28	25 ^h 9	26 ^h 5	10 ^h 20	18 ^h 42	M12
T 13	0 1 27	28 ^h 25'29	23 ^h 44	5 ^h 26	13 ^h 22	3 ^h 56	11 ^h 0	10 ^h 39	3 ^h 2	19 ^h 23	29 ^h 29	25 ^h R10	26 ^h 2	10 ^h 27	18 ^h 40	T 13
W14	0 5 23	29 ^h 24'30	5 ^h 40	7 ^h 7	14 ^h 27	4 ^h 38	11 ^h 13	10 ^h 45	3 ^h 3	19 ^h 25	29 ^h 30	25 ^h 10	25 ^h 59	10 ^h 33	18 ^h 38	W14
T 15	0 9 20	0 ^h 23'33	17 ^h 46	8 ^h 47	15 ^h 32	5 ^h 21	11 ^h 26	10 ^h 51	3 ^h 4	19 ^h 27	29 ^h 31	25 ^h 9	25 ^h 55	10 ^h 40	18 ^h 36	T 15
F 16	0 13 16	1 ^h 22'39	0 ^h II 7	10 ^h 27	16 ^h 38	6 ^h 3	11 ^h 38	10 ^h 57	3 ^h 5	19 ^h 29	29 ^h 32	25 ^h 6	25 ^h 52	10 ^h 47	18 ^h 35	F 16
S 17	0 17 13	2 ^h 21'46	12 ^h 46	12 ^h 5	17 ^h 43	6 ^h 45	11 ^h 51	11 ^h 3	3 ^h 6	19 ^h 32	29 ^h 33	25 ^h 3	25 ^h 49	10 ^h 53	18 ^h 33	S 17
S 18	0 21 9	3 ^h 20'56	25 ^h 47	13 ^h 42	18 ^h 49	7 ^h 28	12 ^h 4	11 ^h 8	3 ^h 6	19 ^h 34	29 ^h 34	25 ^h 0	25 ^h 46	11 ^h 0	18 ^h 31	S 18
M19	0 25 6	4 ^h 20'08	9 ^h 19	15 ^h 19	19 ^h 55	8 ^h 10	12 ^h 16	11 ^h 14	3 ^h 7	19 ^h 36	29 ^h 35	24 ^h 57	25 ^h 43	11 ^h 7	18 ^h 29	M19
T 20	0 29 3	5 ^h 19'22	22 ^h 52	16 ^h 55	21 ^h 1	8 ^h 53	12 ^h 29	11 ^h 20	3 ^h 8	19 ^h 38	29 ^h 36	24 ^h 54	25 ^h 39	11 ^h 13	18 ^h 27	T 20
W21	0 32 59	6 ^h 18'39	6 ^h 54	18 ^h 30	22 ^h 8	9 ^h 36	12 ^h 41	11 ^h 25	3 ^h 8	19 ^h 40	29 ^h 37	24 ^h 53	25 ^h 36	11 ^h 20	18 ^h 24	W21
T 22	0 36 56	7 ^h 17'57	21 ^h 12	20 ^h 5	23 ^h 15	10 ^h 19	12 ^h 53	11 ^h 31	3 ^h 9	19 ^h 42	29 ^h 37	24 ^h D52	25 ^h 33	11 ^h 27	18 ^h 22	T 22
F 23	0 40 52	8 ^h 17'18	5 ^h 13	21 ^h 38	24 ^h 22	11 ^h 2	13 ^h 6	11 ^h 36	3 ^h 9	19 ^h 45	29 ^h 38	24 ^h 52	25 ^h 30	11 ^h 33	18 ^h 20	F 23
S 24	0 44 49	9 ^h 16'40	20 ^h 11	23 ^h 11	25 ^h 29	11 ^h 45	13 ^h 18	11 ^h 41	3 ^h 9	19 ^h 47	29 ^h 39	24 ^h 53	25 ^h 27	11 ^h 40	18 ^h 18	S 24
S 25	0 48 45	10 ^h 16'04	4 ^h 11	24 ^h 43	26 ^h 36	12 ^h 28	13 ^h 31	11 ^h 47	3 ^h 10	19 ^h 49	29 ^h 40	24 ^h 54	25 ^h 24	11 ^h 47	18 ^h 15	S 25
M26	0 52 42	11 ^h 15'31	19 ^h 7	26 ^h 15	27 ^h 44	13 ^h 11	13 ^h 43	11 ^h 52	3 ^h 10	19 ^h 51	29 ^h 40	24 ^h 55	25 ^h 20	11 ^h 53	18 ^h 13	M26
T 27	0 56 38	12 ^h 14'59	3 ^h 23	27 ^h 45	28 ^h 51	13 ^h 54	13 ^h 55	11 ^h 57	3 ^h 10	19 ^h 53	29 ^h 41	24 ^h 56	25 ^h 17	12 ^h 0	18 ^h 11	T 27
W28	1 0 35	13 ^h 14'29	17 ^h 28	29 ^h 15	29 ^h 59	14 ^h 38	14 ^h 7	12 ^h 2	3 ^h 10	19 ^h 55	29 ^h 42	24 ^h R56	25 ^h 14	12 ^h 7	18 ^h 8	W28
T 29	1 4 32	14 ^h 14'00	1 ^h 21	0 ^h 14	1 ^h 19	15 ^h 21	14 ^h 19	12 ^h 7	3 ^h 10	19 ^h 57	29 ^h 42	24 ^h 55	25 ^h 11	12 ^h 14	18 ^h 6	T 29
F 30	1 8 28	15 ^h 13'33	14 ^h 59	2 ^h 13	2 ^h 16	16 ^h 13	14 ^h 31	12 ^h 12	3 ^h R10	19 ^h 59	29 ^h 43	24 ^h Y54	25 ^h Y 8	12 ^h II20	18 ^h 3	F 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	5n17	27s 1	5s 9	7n51	1n42	18n 8	1s57	20s38	1s27	9n21	1n 0	18n36	0n40	23n44	0n15	5n30	1n13	24n51	4n35	9n54	10n19	25n19	15n 9	2s27			
F 2	4 54	24 7	5 6	7 5	1 39	18 0	1 52	20 48	1 27	9 16	1 0	18 35	0 40	23 44	0 15	5 29	1 13	24 51	4 35	9 53	10 18	25 21	15 8	2 28			
S 3	4 31	19 53	4 46	6 19	1 36	17 52	1 46	20 58	1 27	9 12	1 0	18 33	0 40	23 44	0 15	5 28	1 13	24 51	4 35	9 51	10 17	25 23	15 8	2 28			
S 4	4 8	14 40	4 9	5 32	1 32	17 43	1 40	21 8	1 28	9 7	1 0	18 31	0 41	23 44	0 15	5 28	1 13	24 50	4 35	9 48	10 15	25 24	15 7	2 28			
M 5	3 45	8 50	3 19	4 45	1 28	17 34	1 35	21 18	1 28	9 2	1 0	18 30	0 41	23 44	0 15	5 27	1 13	24 50	4 36	9 46	10 14	25 26	15 7	2 28			
T 6	3 21	2 45	2 20	3 58	1 23	17 24	1 30	21 27	1 28	8 57	1 0	18 28	0 41	23 44	0 15	5 26	1 13	24 50	4 36	9 45	10 13	25 28	15 6	2 29			
W 7	2 58	3n20	1 15	3 11	1 18	17 13	1 24	21 36	1 29	8 52	1 0	18 27	0 41	23 44	0 15	5 25	1 13	24 50	4 36	9 44	10 12	25 29	15 5	2 29			
T 8	2 35	9 9	0 7	2 24	1 13	17 3	1 19	21 45	1 29	8 48	1 0	18 25	0 41	23 44	0 15	5 24	1 13	24 50	4 36	9 44	10 11	25 31	15 5	2 29			
F 9	2 12	14 31	1n 0	1 36	1 8	16 51	1 13	21 54	1 29	8 43	1 0	18 23	0 41	23 44	0 15	5 23	1 13	24 50	4 36	9 44	10 10	25 33	15 4	2 29			
S 10	1 48	19 15	2 3	0 50	1 2	16 40	1 8	22 3	1 29	8 38	1 0	18 22	0 41	23 44	0 15	5 22	1 13	24 50	4 36	9 44	10 8	25 34	15 3	2 30			
S 11	1 25	23 9	3 0	0 3	0 56	16 27	1 3	22 12	1 30	8 33	1 0	18 20	0 41	23 44	0 15	5 22	1 13	24 50	4 37	9 45	10 7	25 36	15 3	2 30			
M12	1 1	26 4	3 49	0s44	0 50	16 15	0 58	22 20	1 30	8 28	1 1	18 19	0 42	23 44	0 15	5 21	1 13	24 50	4 37	9 46	10 6	25 37	15 2	2 30			
T 13	0 38	27 50	4 28	1 30	0 44	16 1	0 52	22 29	1 30	8 24	1 1	18 17	0 42	23 44	0 15	5 20	1 13	24 50	4 37	9 46	10 5	25 39	15 1	2 30			
W14	0 14	28 20	4 56	2 16	0 37	15 48	0 47	22 37	1 30	8 19	1 1	18 16	0 42	23 44	0 15	5 19	1 13	24 50	4 37	9 46	10 4	25 41	15 1	2 30			
T 15	0s 9	27 29	5 12	3 1	0 31	15 33	0 42	22 44	1 30	8 14	1 1	18 14	0 42	23 44	0 15	5 18	1 13	24 50	4 37	9 46	10 3	25 42	15 0	2 31			
F 16	0 33	25 17	5 13	3 47	0 24	15 19	0 37	22 52	1 31	8 9	1 1	18 13	0 42	23 44	0 15	5 17	1 13	24 50	4 37	9 45	10 2	25 44	14 59	2 31			
S 17	0 57	21 49	5 0	4 31	0 17	15 3	0 32	23 0	1 31	8 5	1 1	18 11	0 42	23 44	0 15	5 16	1 13	24 50	4 38	9 44	10 0	25 45	14 59	2 31			
S 18	1 20	17 12	4 30	5 16	0 11	14 48	0 27	23 7	1 31	8 0	1 1	18 10	0 42	23 44	0 15	5 16	1 13	24 50	4 38	9 42	9 59	25 47	14 58	2 31			
M19	1 44	11 39	3 46	6 0	0 4	14 32	0 23	23 14	1 31	7 55	1 1	18 8	0 43	23 44	0 15	5 15	1 13	24 50	4 38	9 41	9 58	25 49	14 57	2 32			
T 20	2 7	5 24	2 47	6 43	0s 3	14 15	0 18	23 21	1 31	7 51	1 1	18 7	0 43	23 44	0 15	5 14	1 13	24 50	4 38	9 40	9 57	25 50	14 56	2 32			
W21	2 31	1s15	1 38	7 26	0 10	13 58	0 13	23 28	1 31	7 46	1 1	18 6	0 43	23 44	0 15	5 13	1 13	24 50	4 38	9 40	9 56	25 52	14 55	2 32			
T 22	2 54	7 59	0 20	8 8	0 17	13 41	0 8	23 34	1 31	7 41	1 2	18 4	0 43	23 44	0 15	5 12	1 13	24 50	4 38	9 39	9 55	25 53	14 55	2 32			
F 23	3 18	14 23	0s59	8 50	0 24	13 23	0 4	23 41	1 32	7 37	1 2	18 3	0 43	23 44	0 15	5 11	1 13	24 50	4 39	9 39	9 53	25 55	14 54	2 32			
S 24	3 41	20 1	2 15	9 31	0 31	13 5	0n 1	23 47	1 32	7 32	1 2	18 2	0 43	23 44	0 15	5 11	1 13	24 50	4 39	9 40	9 52	25 56	14 53	2 33			
S 25	4 5	24 28	3 23	10 12	0 38	12 46	0 5	23 53	1 32	7 27	1 2	18 0	0 43	23 44	0 15	5 10	1 13	24 50	4 39	9 40	9 51	25 58	14 52	2 33			
M26	4 28	27 20	4 17	10 52	0 45	12 27	0 9	23 58	1 32	7 23	1 2	17 59	0 44	23 44	0 15	5 9	1 13	24 50	4 39	9 41	9 50	25 59	14 51	2 33			
T 27	4 51	28 23	4 55	11 31	0 52	12 7	0 14	24 4	1 32	7 18	1 2	17 58	0 44	23 44	0 15	5 8	1 13	24 50	4 39	9 41	9 49	26 1	14 50	2 33			
W28	5 15	27 33	5 14	12 10	0 59	11 47	0 18	24 9	1 32	7 13	1 2	17 56	0 44	23 44	0 15	5 7	1 13	24 50	4 40	9 41	9 48	26 2	14 50	2 34			
T 29	5 38	25 2	5 15	12 48	1 6	11 27	0 22	24 14	1 32	7 9	1 2	17 55	0 44	23 44	0 15	5 7	1 13	24 50	4 40	9 41	9 46	26 4	14 49	2 34			
F 30	6s 1	21s 7	4s57	13s25	1s13	11n 6	0n26	24s19	1s32	7n 4	1n 2	17n54	0n44	23n44	0n15	5n 6	1n13	24n50	4n40	9n40	9n45	26n 5	14n48	2s34			

ASTRODIENST EPHEMERIS for the year 1446

geocentric

OCTOBER 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	1 12 25	16♌13'08	28♏24	3♍41	3♍24	16♌49	14♍43	12♏16	3°R10	20♍1	29♏44	24°R53	25°Y 5	12♏27	18°R 0	S 1
S 2	1 16 21	17°12'45	11♏35	5° 8	4°33	17°32	14°55	12°21	3♏10	20° 3	29°44	24°Y52	25° 1	12°34	17♏58	S 2
M 3	1 20 18	18°12'23	24°32	6°35	5°42	18°16	15° 7	12°26	3°10	20° 5	29°45	24°51	24°58	12°40	17°55	M 3
T 4	1 24 14	19°12'04	7°Y16	8° 0	6°51	19° 0	15°19	12°30	3°10	20° 7	29°45	24°51	24°55	12°47	17°52	T 4
W 5	1 28 11	20°11'46	19°46	9°25	8° 0	19°44	15°31	12°35	3°10	20° 9	29°46	24°D51	24°52	12°54	17°50	W 5
T 6	1 32 7	21°11'30	2♏ 5	10°49	9°10	20°28	15°42	12°39	3°10	20°11	29°46	24°51	24°49	13° 0	17°47	T 6
F 7	1 36 4	22°11'17	14°13	12°12	10°19	21°13	15°54	12°43	3° 9	20°13	29°47	24°51	24°45	13° 7	17°44	F 7
S 8	1 40 1	23°11'06	26°13	13°35	11°29	21°57	16° 6	12°48	3° 9	20°15	29°47	24°51	24°42	13°14	17°41	S 8
S 9	1 43 57	24°10'56	8♏ 6	14°56	12°39	22°41	16°17	12°52	3° 9	20°17	29°47	24°51	24°39	13°20	17°38	S 9
M10	1 47 54	25°10'49	19°56	16°16	13°49	23°25	16°29	12°56	3° 8	20°19	29°48	24°R51	24°36	13°27	17°35	M10
T 11	1 51 50	26°10'45	1♏47	17°35	14°59	24°10	16°40	13° 0	3° 8	20°21	29°48	24°51	24°33	13°34	17°32	T 11
W12	1 55 47	27°10'42	13°42	18°54	16° 9	24°54	16°52	13° 3	3° 7	20°23	29°48	24°51	24°30	13°41	17°29	W12
T 13	1 59 43	28°10'41	25°46	20°10	17°20	25°39	17° 3	13° 7	3° 6	20°25	29°49	24°D51	24°26	13°47	17°26	T 13
F 14	2 3 40	29°10'43	8♏ 4	21°26	18°30	26°24	17°14	13°11	3° 6	20°27	29°49	24°51	24°23	13°54	17°23	F 14
S 15	2 7 36	0♏10'47	20°40	22°39	19°41	27° 8	17°25	13°14	3° 5	20°29	29°49	24°51	24°20	14° 1	17°20	S 15
S 16	2 11 33	1°10'53	3♍37	23°51	20°52	27°53	17°36	13°18	3° 4	20°30	29°49	24°52	24°17	14° 7	17°17	S 16
M17	2 15 30	2°11'01	16°59	25° 2	22° 3	28°38	17°47	13°21	3° 3	20°32	29°50	24°52	24°14	14°14	17°14	M17
T 18	2 19 26	3°11'11	0♏48	26°10	23°14	29°23	17°58	13°24	3° 2	20°34	29°50	24°53	24°11	14°21	17°11	T 18
W19	2 23 23	4°11'23	15° 1	27°16	24°25	0♏ 8	18° 9	13°27	3° 1	20°36	29°50	24°54	24° 7	14°27	17° 8	W19
T 20	2 27 19	5°11'37	29°35	28°19	25°37	0°53	18°20	13°30	3° 0	20°37	29°50	24°R54	24° 4	14°34	17° 5	T 20
F 21	2 31 16	6°11'53	14♏26	29°19	26°48	1°38	18°30	13°33	2°59	20°39	29°50	24°53	24° 1	14°41	17° 1	F 21
S 22	2 35 12	7°12'11	29°24	0♏16	28° 0	2°24	18°41	13°36	2°58	20°41	29°50	24°52	23°58	14°47	16°58	S 22
S 23	2 39 9	8°12'30	14♏22	1°10	29°12	3° 9	18°51	13°39	2°57	20°42	29°R50	24°51	23°55	14°54	16°55	S 23
M24	2 43 5	9°12'51	29°11	1°59	0♏23	3°54	19° 2	13°42	2°56	20°44	29°50	24°49	23°51	15° 1	16°52	M24
T 25	2 47 2	10°13'14	13♏44	2°44	1°35	4°40	19°12	13°44	2°55	20°46	29°50	24°47	23°48	15° 8	16°48	T 25
W26	2 50 59	11°13'38	27°59	3°24	2°47	5°25	19°22	13°47	2°53	20°47	29°50	24°46	23°45	15°14	16°45	W26
T 27	2 54 55	12°14'03	11♏51	3°58	3°59	6°11	19°32	13°49	2°52	20°49	29°50	24°D46	23°42	15°21	16°42	T 27
F 28	2 58 52	13°14'30	25°22	4°25	5°12	6°56	19°42	13°51	2°51	20°50	29°50	24°46	23°39	15°28	16°39	F 28
S 29	3 2 48	14°14'57	8♏33	4°46	6°24	7°42	19°52	13°53	2°49	20°52	29°50	24°47	23°36	15°34	16°35	S 29
S 30	3 6 45	15°15'26	21°26	4°58	7°36	8°27	20° 2	13°55	2°48	20°53	29°49	24°49	23°32	15°41	16°32	S 30
M31	3 10 41	16♏15'57	4°Y 3	5°R 2	8♏49	9♏13	20♍12	13♏57	2♏46	20♍55	29♏49	24°Y50	23°Y29	15♏48	16♏29	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	6s24	16s12	4s24	14s 2	1s19	10n45	0n30	24s23	1s32	7n 0	1n 3	17n53	0n44	23n44	0n15	S 1
S 2	6 47	10 35	3 38	14 37	1 26	10 24	0 34	24 27	1 32	6 55	1 3	17 52	0 45	23 44	0 15	S 2
M 3	7 10	4 38	2 40	15 12	1 32	10 2	0 38	24 31	1 32	6 51	1 3	17 50	0 45	23 44	0 15	M 3
T 4	7 32	1n25	1 36	15 47	1 39	9 40	0 41	24 35	1 32	6 46	1 3	17 49	0 45	23 44	0 15	T 4
W 5	7 55	7 19	0 28	16 20	1 45	9 17	0 45	24 39	1 32	6 42	1 3	17 48	0 45	23 44	0 15	W 5
T 6	8 18	12 52	0n40	16 52	1 51	8 55	0 49	24 42	1 32	6 37	1 3	17 47	0 45	23 44	0 15	T 6
F 7	8 40	17 50	1 46	17 24	1 57	8 31	0 52	24 45	1 32	6 33	1 3	17 46	0 45	23 44	0 15	F 7
S 8	9 2	22 3	2 45	17 54	2 2	8 8	0 55	24 48	1 32	6 29	1 4	17 45	0 46	23 44	0 15	S 8
S 9	9 24	25 18	3 38	18 24	2 8	7 44	0 59	24 51	1 32	6 24	1 4	17 44	0 46	23 44	0 15	S 9
M10	9 46	27 27	4 20	18 53	2 13	7 20	1 2	24 53	1 32	6 20	1 4	17 43	0 46	23 44	0 15	M10
T 11	10 8	28 22	4 52	19 20	2 18	6 56	1 5	24 55	1 32	6 16	1 4	17 42	0 46	23 44	0 15	T 11
W12	10 30	27 58	5 11	19 47	2 23	6 31	1 8	24 57	1 32	6 11	1 4	17 41	0 46	23 44	0 16	W12
T 13	10 52	26 15	5 17	20 12	2 27	6 7	1 11	24 58	1 32	6 7	1 4	17 40	0 46	23 44	0 16	T 13
F 14	11 13	23 17	5 9	20 36	2 31	5 42	1 14	25 0	1 32	6 3	1 4	17 39	0 47	23 44	0 16	F 14
S 15	11 34	19 10	4 46	20 59	2 35	5 16	1 17	25 1	1 32	5 59	1 5	17 39	0 47	23 44	0 16	S 15
S 16	11 55	14 3	4 8	21 21	2 38	4 51	1 19	25 1	1 31	5 54	1 5	17 38	0 47	23 44	0 16	S 16
M17	12 16	8 9	3 15	21 41	2 41	4 25	1 22	25 2	1 31	5 50	1 5	17 37	0 47	23 44	0 16	M17
T 18	12 37	1 40	2 10	22 0	2 43	3 59	1 24	25 2	1 31	5 46	1 5	17 36	0 47	23 44	0 16	T 18
W19	12 57	5s 6	0 55	22 17	2 45	3 33	1 27	25 2	1 31	5 42	1 5	17 35	0 47	23 44	0 16	W19
T 20	13 18	11 46	0s26	22 33	2 47	3 7	1 29	25 2	1 31	5 38	1 5	17 35	0 48	23 44	0 16	T 20
F 21	13 38	17 54	1 46	22 47	2 47	2 40	1 31	25 1	1 31	5 34	1 6	17 34	0 48	23 44	0 16	F 21
S 22	13 58	23 0	3 0	23 0	2 47	2 13	1 33	25 0	1 31	5 30	1 6	17 33	0 48	23 45	0 16	S 22
S 23	14 17	26 35	4 1	23 11	2 47	1 47	1 35	24 59	1 30	5 26	1 6	17 33	0 48	23 45	0 16	S 23
M24	14 37	28 16	4 45	23 19	2 45	1 20	1 37	24 58	1 30	5 22	1 6	17 32	0 48	23 45	0 16	M24
T 25	14 56	27 57	5 10	23 26	2 43	0 53	1 39	24 56	1 30	5 18	1 6	17 32	0 48	23 45	0 16	T 25
W26	15 15	25 47	5 16	23 31	2 40	0 26	1 41	24 54	1 30	5 14	1 6	17 31	0 49	23 45	0 16	W26
T 27	15 33	22 7	5 2	23 33	2 35	0s 2	1 42	24 52	1 30	5 10	1 7	17 31	0 49	23 45	0 16	T 27
F 28	15 52	17 22	4 32	23 33	2 30	0 29	1 44	24 49	1 30	5 7	1 7	17 30	0 49	23 45	0 16	F 28
S 29	16 10	11 55	3 48	23 30	2 23	0 56	1 45	24 46	1 29	5 3	1 7	17 30	0 49	23 45	0 16	S 29
S 30	16 28	6 4	2 54	23 24	2 15	1 24	1 46	24 43	1 29	4 59	1 7	17 29	0 49	23 45	0 16	S 30
M31	16s45	0s 6	1s52	23s16	2s 6	1s51	1n48	24s40	1s29	4n56	1n 7	17n29	0n50	23n45	0n16	M31

Julian Day Number = 2249482.5, Delta T = 06m35s

Ecliptic obliquity = 23°30'49, Nutation = - 0°00'08, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°01'19, Lahiri = 16°08'19 Julian Calendar 1 Oct. 1446 == Greg. Calendar 10 Oct. 1446

ASTRODIENST EPHEMERIS for the year 1446

geocentric

NOVEMBER 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	3 14 38	17 ¹⁶ 16'29	16 ¹⁷ 28	4 ¹⁸ 57	10 ¹⁹ 1	9 ²⁰ 59	20 ²¹ 22	13 ²² 59	2 ²³ 45	20 ²⁴ 56	29 ²⁵ 49	24 ²⁶ 51	23 ²⁷ 26	15 ²⁸ 54	16 ²⁹ 26	T 1
W 2	3 18 34	18 ¹⁹ 17'02	28 ²⁰ 42	4 ²¹ 42	11 ²² 14	10 ²³ 45	20 ²⁴ 31	14 ²⁵ 1	2 ²⁶ 43	20 ²⁷ 58	29 ²⁸ 49	24 ²⁹ 51	23 ³⁰ 23	16 ³¹ 1	16 ³² 22	W 2
T 3	3 22 31	19 ²⁰ 17'37	10 ²¹ 48	4 ²² 16	12 ²³ 26	11 ²⁴ 31	20 ²⁵ 40	14 ²⁶ 2	2 ²⁷ 42	20 ²⁸ 59	29 ²⁹ 48	24 ³⁰ 50	23 ³¹ 20	16 ³² 8	16 ³³ 19	T 3
F 4	3 26 28	20 ²¹ 18'13	22 ²² 47	3 ²³ 40	13 ²⁴ 39	12 ²⁵ 17	20 ²⁶ 50	14 ²⁷ 4	2 ²⁷ 40	21 ²⁸ 0	29 ²⁹ 48	24 ³⁰ 48	23 ³¹ 17	16 ³² 14	16 ³³ 16	F 4
S 5	3 30 24	21 ²² 18'51	4 ²³ 42	2 ²⁴ 53	14 ²⁵ 52	13 ²⁶ 2	20 ²⁷ 59	14 ²⁸ 5	2 ²⁸ 38	21 ²⁹ 2	29 ³⁰ 48	24 ³¹ 44	23 ³² 13	16 ³³ 21	16 ³⁴ 12	S 5
S 6	3 34 21	22 ²³ 19'30	16 ²⁴ 33	1 ²⁵ 57	16 ²⁶ 5	13 ²⁷ 48	21 ²⁸ 8	14 ²⁹ 6	2 ²⁹ 36	21 ³⁰ 3	29 ³¹ 47	24 ³² 40	23 ³³ 10	16 ³⁴ 28	16 ³⁵ 9	S 6
M 7	3 38 17	23 ²⁴ 20'11	28 ²⁵ 24	0 ²⁶ 51	17 ²⁷ 18	14 ²⁸ 34	21 ²⁹ 17	14 ³⁰ 7	2 ³⁰ 35	21 ³¹ 4	29 ³² 47	24 ³³ 34	23 ³⁴ 7	16 ³⁵ 35	16 ³⁶ 6	M 7
T 8	3 42 14	24 ²⁵ 20'53	10 ²⁶ 15	29 ²⁷ 13	18 ²⁸ 31	15 ²⁹ 21	21 ³⁰ 26	14 ³¹ 8	2 ³¹ 33	21 ³² 5	29 ³³ 47	24 ³⁴ 29	23 ³⁵ 4	16 ³⁶ 41	16 ³⁷ 3	T 8
W 9	3 46 10	25 ²⁶ 21'37	22 ²⁷ 11	28 ²⁸ 19	19 ²⁹ 44	16 ³⁰ 7	21 ³¹ 35	14 ³² 9	2 ³² 31	21 ³³ 7	29 ³⁴ 46	24 ³⁵ 24	23 ³⁶ 1	16 ³⁷ 48	15 ³⁸ 59	W 9
T 10	3 50 7	26 ²⁷ 22'23	4 ²⁸ 14	26 ²⁹ 57	20 ³⁰ 58	16 ³¹ 53	21 ³² 43	14 ³³ 10	2 ³³ 29	21 ³⁴ 8	29 ³⁵ 46	24 ³⁶ 21	22 ³⁷ 57	16 ³⁸ 55	15 ³⁹ 56	T 10
F 11	3 54 3	27 ²⁸ 23'09	16 ²⁹ 29	25 ³⁰ 35	22 ³¹ 11	17 ³² 39	21 ³³ 52	14 ³⁴ 11	2 ³⁴ 27	21 ³⁵ 9	29 ³⁶ 45	24 ³⁷ 18	22 ³⁸ 54	17 ³⁹ 1	15 ⁴⁰ 53	F 11
S 12	3 58 0	28 ²⁹ 23'58	28 ³⁰ 59	24 ³¹ 16	23 ³² 24	18 ³³ 25	22 ³⁴ 0	14 ³⁵ 11	2 ³⁵ 25	21 ³⁶ 10	29 ³⁷ 45	24 ³⁸ D18	22 ³⁹ 51	17 ⁴⁰ 8	15 ⁴¹ 50	S 12
S 13	4 1 57	29 ³⁰ 24'48	11 ³¹ 49	23 ³² 1	24 ³³ 38	19 ³⁴ 11	22 ³⁵ 9	14 ³⁶ 12	2 ³⁶ 23	21 ³⁷ 11	29 ³⁸ 44	24 ³⁹ 18	22 ⁴⁰ 48	17 ⁴¹ 15	15 ⁴² 47	S 13
M14	4 5 53	0 ³¹ 25'39	25 ³² 3	21 ³³ 53	25 ³⁴ 51	19 ³⁵ 58	22 ³⁶ 17	14 ³⁷ 12	2 ³⁷ 21	21 ³⁸ 12	29 ³⁹ 44	24 ⁴⁰ 20	22 ⁴¹ 45	17 ⁴² 21	15 ⁴³ 43	M14
T 15	4 9 50	1 ³² 26'32	8 ³³ 43	20 ³⁴ 55	27 ³⁵ 5	20 ³⁶ 44	22 ³⁷ 25	14 ³⁸ 12	2 ³⁸ 19	21 ³⁹ 13	29 ⁴⁰ 43	24 ⁴¹ 21	22 ⁴² 42	17 ⁴³ 28	15 ⁴⁴ 40	T 15
W16	4 13 46	2 ³³ 27'26	22 ³⁴ 52	20 ³⁵ 7	28 ³⁶ 18	21 ³⁷ 31	22 ³⁸ 33	14 ³⁹ 13	2 ³⁹ 17	21 ⁴⁰ 14	29 ⁴¹ 42	24 ⁴² R22	22 ⁴³ 38	17 ⁴⁴ 35	15 ⁴⁵ 37	W16
T 17	4 17 43	3 ³⁴ 28'22	7 ³⁵ 14	19 ³⁶ 31	29 ³⁷ 42	22 ³⁸ 17	22 ³⁹ 40	14 ⁴⁰ R13	2 ⁴⁰ 15	21 ⁴¹ 15	29 ⁴² 42	24 ⁴³ 21	22 ⁴⁴ 35	17 ⁴⁵ 42	15 ⁴⁶ 34	T 17
F 18	4 21 39	4 ³⁵ 29'19	22 ³⁶ 26	19 ³⁷ 6	0 ³⁸ 46	23 ³⁹ 3	22 ⁴⁰ 48	14 ⁴¹ 12	2 ⁴¹ 12	21 ⁴² 16	29 ⁴³ 41	24 ⁴⁴ 19	22 ⁴⁵ 32	17 ⁴⁶ 48	15 ⁴⁷ 31	F 18
S 19	4 25 36	5 ³⁶ 30'17	7 ³⁷ 38	18 ³⁸ 52	2 ³⁹ 0	23 ⁴⁰ 50	22 ⁴¹ 56	14 ⁴² 12	2 ⁴² 10	21 ⁴³ 17	29 ⁴⁴ 40	24 ⁴⁵ 14	22 ⁴⁶ 29	17 ⁴⁷ 55	15 ⁴⁸ 28	S 19
S 20	4 29 32	6 ³⁷ 31'16	22 ³⁹ 55	18 ⁴⁰ D49	3 ⁴¹ 14	24 ⁴² 36	23 ⁴³ 3	14 ⁴³ 12	2 ⁴³ 8	21 ⁴⁴ 18	29 ⁴⁵ 40	24 ⁴⁶ 8	22 ⁴⁷ 26	18 ⁴⁸ 2	15 ⁴⁹ 25	S 20
M21	4 33 29	7 ³⁸ 32'16	8 ⁴¹ 3	18 ⁴² 57	4 ⁴³ 27	25 ⁴⁴ 23	23 ⁴⁵ 10	14 ⁴⁴ 11	2 ⁴⁴ 6	21 ⁴⁵ 19	29 ⁴⁶ 39	24 ⁴⁷ 1	22 ⁴⁸ 23	18 ⁴⁹ 8	15 ⁵⁰ 22	M21
T 22	4 37 26	8 ³⁹ 33'17	23 ⁴² 1	19 ⁴⁴ 14	5 ⁴⁵ 41	26 ⁴⁶ 9	23 ⁴⁷ 17	14 ⁴⁵ 11	2 ⁴⁵ 3	21 ⁴⁶ 19	29 ⁴⁷ 38	23 ⁴⁸ 55	22 ⁴⁹ 19	18 ⁵⁰ 15	15 ⁵¹ 19	T 22
W23	4 41 22	9 ⁴⁰ 34'18	7 ⁴³ 32	19 ⁴⁶ 39	6 ⁴⁷ 55	26 ⁴⁸ 56	23 ⁴⁹ 24	14 ⁴⁶ 10	2 ⁴⁶ 1	21 ⁴⁷ 20	29 ⁴⁸ 37	23 ⁴⁹ 49	22 ⁵⁰ 16	18 ⁵¹ 22	15 ⁵² 16	W23
T 24	4 45 19	10 ⁴¹ 35'20	21 ⁴⁵ 35	20 ⁴⁸ 13	8 ⁴⁹ 9	27 ⁵⁰ 43	23 ⁵¹ 31	14 ⁴⁷ 9	1 ⁵¹ 59	21 ⁴⁸ 21	29 ⁴⁹ 37	23 ⁵⁰ 45	22 ⁵¹ 13	18 ⁵² 28	15 ⁵³ 13	T 24
F 25	4 49 15	11 ⁴² 36'22	5 ⁵⁰ 10	20 ⁵⁰ 53	9 ⁵¹ 23	28 ⁵² 29	23 ⁵³ 38	14 ⁴⁸ 9	1 ⁵² 56	21 ⁴⁹ 22	29 ⁵⁰ 36	23 ⁵¹ 44	22 ⁵² 10	18 ⁵³ 35	15 ⁵⁴ 10	F 25
S 26	4 53 12	12 ⁴³ 37'25	18 ⁵¹ 19	21 ⁵² 40	10 ⁵³ 38	29 ⁵⁴ 16	23 ⁵⁵ 44	14 ⁴⁹ 8	1 ⁵³ 54	21 ⁵⁰ 22	29 ⁵¹ 35	23 ⁵² D43	22 ⁵³ 7	18 ⁵⁴ 42	15 ⁵⁵ 7	S 26
S 27	4 57 8	13 ⁴⁴ 38'29	1 ⁵² 5	22 ⁵⁴ 31	11 ⁵⁵ 52	0 ⁵⁶ 3	23 ⁵⁷ 51	14 ⁵⁰ 6	1 ⁵⁴ 52	21 ⁵¹ 23	29 ⁵² 34	23 ⁵³ 44	22 ⁵⁴ 3	18 ⁵⁵ 49	15 ⁵⁶ 5	S 27
M28	5 1 5	14 ⁴⁵ 39'32	13 ⁵³ 33	23 ⁵⁶ 28	13 ⁵⁷ 6	0 ⁵⁸ 49	23 ⁵⁹ 57	14 ⁵¹ 5	1 ⁵⁵ 49	21 ⁵² 24	29 ⁵³ 33	23 ⁵⁴ 46	22 ⁵⁵ 0	18 ⁵⁶ 55	15 ⁵⁷ 2	M28
T 29	5 5 2	15 ⁴⁶ 40'37	25 ⁵⁴ 46	24 ⁵⁸ 29	14 ⁵⁹ 20	1 ⁶⁰ 36	24 ⁶¹ 3	14 ⁵² 4	1 ⁵⁶ 47	21 ⁵³ 24	29 ⁵⁴ 32	23 ⁵⁵ R46	21 ⁵⁶ 57	19 ⁵⁷ 2	14 ⁵⁸ 59	T 29
W30	5 8 58	16 ⁴⁷ 41'41	7 ⁵⁹ 48	25 ⁶⁰ 33	15 ⁶¹ 34	2 ⁶² 23	24 ⁶³ 24	14 ⁵³ 2	1 ⁵⁷ 44	21 ⁵⁴ 25	29 ⁵⁵ 31	23 ⁵⁶ Y45	21 ⁵⁷ 54	19 ⁵⁸ 9	14 ⁵⁹ 56	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	17s 3	5n47	0s46	23s 4	1s55	2s19	1n49	24s37	1s29	4n52	1n 8	17n29	0n50	23n45	0n16	4n44	1n14	24n55	4n46	9n39	9n 8	26n50	14n16	2s39			
W 2	17 20	11 23	0n21	22 49	1 42	2 46	1 50	24 33	1 28	4 48	1 8	17 28	0 50	23 45	0 16	4 44	1 14	24 55	4 46	9 39	9 7	26 51	14 15	2 39			
T 3	17 36	16 29	1 27	22 30	1 28	3 14	1 51	24 29	1 28	4 45	1 8	17 28	0 50	23 45	0 16	4 43	1 14	24 55	4 47	9 39	9 5	26 52	14 14	2 39			
F 4	17 53	20 54	2 27	22 8	1 12	3 41	1 52	24 24	1 28	4 41	1 8	17 28	0 50	23 45	0 16	4 43	1 14	24 55	4 47	9 38	9 4	26 53	14 13	2 39			
S 5	18 9	24 26	3 21	21 42	0 55	4 9	1 52	24 19	1 28	4 38	1 8	17 28	0 50	23 45	0 16	4 42	1 14	24 56	4 47	9 37	9 3	26 55	14 12	2 39			
S 6	18 24	26 55	4 6	21 13	0 37	4 36	1 53	24 14	1 27	4 34	1 9	17 27	0 51	23 45	0 16	4 42	1 14	24 56	4 47	9 35	9 2	26 56	14 11	2 39			
M 7	18 40	28 11	4 40	20 40	0 17	5 4	1 54	24 9	1 27	4 31	1 9	17 27	0 51	23 45	0 16	4 41	1 14	24 56	4 47	9 33	9 1	26 57	14 10	2 39			
T 8	18 55	28 9	5 3	20 5	0n 3	5 31	1 54	24 4	1 27	4 28	1 9	17 27	0 51	23 45	0 16	4 41	1 14	24 57	4 48	9 31	9 0	26 58	14 9	2 39			
W 9	19 10	26 48	5 12	19 28	0 24	5 59	1 54	23 58	1 26	4 24	1 9	17 27	0 51	23 45	0 16	4 41	1 15	24 57	4 48	9 29	8 58	26 59	14 8	2 40			
T 10	19 24	24 14	5 8	18 49	0 44	6 26	1 55	23 52	1 26	4 21	1 9	17 27	0 51	23 46	0 16	4 40	1 15	24 57	4 48	9 28	8 57	27 1	14 7	2 40			
F 11	19 38	20 32	4 49	18 11	1 4	6 53	1 55	23 46	1 26	4 18	1 10	17 27	0 52	23 46	0 16	4 40	1 15	24 57	4 48	9 27	8 56	27 2	14 6	2 40			
S 12	19 52	15 52	4 17	17 34	1 23	7 20	1 55	23 39	1 25	4 15	1 10	17 27	0 52	23 46	0 16	4 39	1 15	24 58	4 48	9 27	8 55	27 3	14 5	2 40			
S 13	20 5	10 24	3 31	16 59	1 40	7 47	1 55	23 32	1 25	4 12	1 10	17 27	0 52	23 46	0 16	4 39	1 15	24 58	4 49	9 27	8 54	27 4	14 4	2 40			
M14	20 18	4 19	2 33	16 27	1 55	8 14	1 55	23 25	1 25	4 9	1 10	17 27	0 52	23 46	0 16	4 39	1 15	24 58	4 49	9 28	8 52	27 5	14 3	2 40			
T 15	20 31	2s11	1 24	15 59	2 8	8 41	1 55	23 18	1 24	4 6	1 10	17 27	0 52	23 46	0 16	4 38	1 15	24 59	4 49	9 28	8 51	27 7	14 2	2 40			
W16	20 43	8 48	0 8	15 36	2 19	9 7	1 54	23 10	1 24	4 3	1 11	17 27	0 53	23 46	0 16	4 38	1 15	24 59	4 49	9 29	8 50	27 8	14 1	2 40			
T 17	20 55	15 9	1s11	15 18	2 27	9 34	1 54	23 2	1 24	4 0	1 11	17 27	0 53	23 46	0 16	4 37	1 15	24 59	4 49	9 28	8 49	27 9	14 0	2 40			
F 18	21 6	20 47	2 26	15 5	2 34	10 0	1 54	22 54	1 23	3 57	1 11	17 28	0 53	23 46	0 16	4 37	1 15	25 0	4 49	9 27	8 48	27 10	13 59	2 40			
S 19	21 17	25 9	3 33	14 57	2 39	10 26	1 53	22 46	1 22	3 54	1 11	17 28	0 53	23 46	0 16	4 37	1 15	25 0	4 50	9 26	8 46	27 11	13 58	2 40			
S 20	21 28	27 43	4 24	14 53	2 41	10 52	1 53	22 37	1 22	3 52	1 12	17 28	0 53	23 46	0 16	4 37	1 15	25 0	4 50	9 23	8 45	27 12	13 57	2 40			
M21	21 38	28 12	4 57	14 54	2 42	11 17	1 52	22 28	1 22	3 49	1 12	17 29	0 53	23 46	0 16	4 36	1 15	25 1	4 50	9 21	8 44	27 13	13 56	2 40			
T 22	21 48	26 37	5 9	14 59	2 42	11 43	1 51	22 19	1 22	3 47	1 12	17 29	0 54	23 46	0 16	4 36	1 15	25 1	4 50	9 18	8 43	27 14	13 55	2 40			
W23	21 57	23 16	5 0	15 8	2 41	12 8	1 50	22 10	1 21	3 44	1 12	17 29	0 54	23 46	0 16	4 36	1 15	25 1	4 50	9 16	8 42	27 16	13 55	2 40			
T 24	22 6	18 39	4 33	15 19	2 38	12 33	1 49	22 0	1 21	3 42	1 13	17 30	0 54	23 46	0 16	4 36	1 15	25 2	4 51	9 15	8 41	27 17	13 54	2 40			
F 25	22 15	13 14	3 52	15 33	2 34	12 57	1 49	21 50	1 20	3 39	1 13	17 30	0 54	23 46	0 16	4 35	1 15	25 2	4 51	9 14	8 39	27 18	13 53	2 40			
S 26	22 23	7 23	2 59	15 49	2 30	13 21	1 47	21 40	1 20	3 37	1 13	17 31	0 54	23 46	0 16	4 35	1 15	25 2	4 51	9 14	8 38	27 19	13 52	2 40			
S 27	22 30	1 23	1 59	16 8	2 25	13 45	1 46	21 30	1 19	3 34	1 13	17 31	0 55	23 46	0 16	4 35	1 15	25 3	4 51	9 15	8 37	27 20	13 51	2 40			
M28	22 38	4n 31	0 55	16 27	2 19	14 9	1 45	21 19	1 19	3 32	1 14	17 32	0 55	23 46	0 16	4 35	1 15	25 3	4 51	9 15	8 36	27 21	13 50	2 40			
T 29	22 44	10 9	0n11	16 48	2 13	14 32	1 44	21 8	1 19	3 30	1 14	17 32	0 55	23 47	0 16	4 34	1 15	25 3	4 51	9 15	8 35	27 22	13 50	2 40			
W30	22s51	15n20	1n15	17s10	2n 6	14s55	1n43	20s57	1s18	3n28	1n14	17n33	0n55	23n47	0n16	4n34	1n16	25n 4	4n52	9n15	8n33	27n23	13n49	2s40			

ASTRODIENST EPHEMERIS for the year 1446
geocentric

DECEMBER 1446 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	5 12 55	17°42'47"	19°45'	26°41'	16°48'	3°10'	24°14'	14°R 1	1°R42	21°25'	29°R30	23°R41	21°Y51	19°II15	14°R54	T 1
F 2	5 16 51	18°43'52"	1°II37	27°52'	18° 3'	3°56'	24°20'	13°Ω59	1°Ω39	21°26'	29°Ω29	23°Y35	21°48'	19°22'	14°Ω51	F 2
S 3	5 20 48	19°44'59"	13°28'	29° 5'	19°17'	4°43'	24°25'	13°58'	1°37'	21°26'	29°29'	23°27'	21°44'	19°29'	14°49'	S 3
S 4	5 24 44	20°46'05"	25°19'	0°20'	20°31'	5°30'	24°31'	13°56'	1°34'	21°26'	29°28'	23°16'	21°41'	19°35'	14°46'	S 4
M 5	5 28 41	21°47'12"	7°Ω12	1°37'	21°46'	6°17'	24°36'	13°54'	1°32'	21°27'	29°27'	23° 4'	21°38'	19°42'	14°44'	M 5
T 6	5 32 37	22°48'20"	19° 8'	2°56'	23° 0'	7° 3'	24°41'	13°52'	1°29'	21°27'	29°25'	22°52'	21°35'	19°49'	14°41'	T 6
W 7	5 36 34	23°49'28"	1°Ω 9'	4°16'	24°15'	7°50'	24°46'	13°49'	1°27'	21°27'	29°24'	22°41'	21°32'	19°56'	14°39'	W 7
T 8	5 40 31	24°50'37"	13°17'	5°37'	25°29'	8°37'	24°50'	13°47'	1°24'	21°28'	29°23'	22°31'	21°29'	20° 2'	14°37'	T 8
F 9	5 44 27	25°51'46"	25°34'	7° 0'	26°44'	9°24'	24°55'	13°45'	1°22'	21°28'	29°22'	22°24'	21°25'	20° 9'	14°34'	F 9
S 10	5 48 24	26°52'56"	8°II 3'	8°24'	27°58'	10°11'	24°59'	13°42'	1°19'	21°28'	29°21'	22°20'	21°22'	20°16'	14°32'	S 10
S 11	5 52 20	27°54'06"	20°48'	9°48'	29°13'	10°58'	25° 3'	13°40'	1°16'	21°28'	29°20'	22°18'	21°19'	20°22'	14°30'	S 11
M12	5 56 17	28°55'17"	3°Ω54	11°13'	0°27'	11°44'	25° 7'	13°37'	1°14'	21°28'	29°19'	22°D18	21°16'	20°29'	14°28'	M12
T 13	6 0 13	29°56'28"	17°23'	12°40'	1°42'	12°31'	25°11'	13°34'	1°11'	21°29'	29°18'	22°R18	21°13'	20°36'	14°26'	T 13
W14	6 4 10	0°Ω5740	1°II18	14° 6'	2°57'	13°18'	25°14'	13°31'	1° 9'	21°29'	29°17'	22°18'	21° 9'	20°42'	14°24'	W14
T 15	6 8 6	1°58'52"	15°40'	4°11'	14° 5'	25°18'	13°28'	1° 6'	21°R29	29°15'	22°16'	21° 6'	20°49'	14°22'	T 15	
F 16	6 12 3	3° 0'04"	0°28'	17° 2'	5°26'	14°52'	25°21'	13°25'	1° 3'	21°29'	29°14'	22°12'	21° 3'	20°56'	14°20'	F 16
S 17	6 16 0	4° 1'17"	15°35'	18°30'	6°41'	15°39'	25°24'	13°22'	1° 1'	21°29'	29°13'	22° 4'	21° 0'	21° 3'	14°18'	S 17
S 18	6 19 56	5° 2'29"	0°Ω53	19°59'	7°55'	16°26'	25°27'	13°19'	0°58'	21°28'	29°12'	21°54'	20°57'	21° 9'	14°16'	S 18
M19	6 23 53	6° 3'42"	16°11'	21°29'	9°10'	17°13'	25°30'	13°16'	0°56'	21°28'	29°11'	21°43'	20°54'	21°16'	14°15'	M19
T 20	6 27 49	7° 4'55"	1°Ω16	22°59'	10°25'	17°59'	25°32'	13°12'	0°53'	21°28'	29° 9'	21°32'	20°50'	21°23'	14°13'	T 20
W21	6 31 46	8° 6'07"	16° 0'	24°29'	11°40'	18°46'	25°34'	13° 9'	0°51'	21°28'	29° 8'	21°22'	20°47'	21°29'	14°12'	W21
T 22	6 35 42	9° 7'19"	0°28'	26° 0'	12°54'	19°33'	25°37'	13° 5'	0°48'	21°28'	29° 7'	21°14'	20°44'	21°36'	14°10'	T 22
F 23	6 39 39	10° 8'30"	14° 1'	27°32'	14° 9'	20°20'	25°38'	13° 2'	0°45'	21°28'	29° 6'	21° 9'	20°41'	21°43'	14° 9'	F 23
S 24	6 43 36	11° 9'40"	27°17'	29° 4'	15°24'	21° 7'	25°40'	12°58'	0°43'	21°27'	29° 4'	21° 7'	20°38'	21°50'	14° 7'	S 24
S 25	6 47 32	12°10'50"	10°Y 6	0°Ω36	16°39'	21°54'	25°42'	12°54'	0°40'	21°27'	29° 3'	21°D 6	20°35'	21°56'	14° 6'	S 25
M26	6 51 29	13°12'00"	22°33'	2° 9'	17°54'	22°41'	25°43'	12°50'	0°38'	21°27'	29° 2'	21°R 6	20°31'	22° 3'	14° 5'	M26
T 27	6 55 25	14°13'09"	4°Ω43	3°42'	19° 8'	23°28'	25°44'	12°46'	0°35'	21°26'	29° 0'	21° 6'	20°28'	22°10'	14° 3'	T 27
W28	6 59 22	15°14'17"	16°42'	5°15'	20°23'	24°14'	25°45'	12°42'	0°33'	21°26'	28°59'	21° 4'	20°25'	22°16'	14° 2'	W28
T 29	7 3 18	16°15'24"	28°34'	6°50'	21°38'	25° 1'	25°46'	12°38'	0°30'	21°25'	28°58'	20°59'	20°22'	22°23'	14° 1'	T 29
F 30	7 7 15	17°16'31"	10°II24	8°24'	22°53'	25°48'	25°47'	12°34'	0°28'	21°25'	28°56'	20°51'	20°19'	22°30'	14° 0'	F 30
S 31	7 11 11	18°Ω17'38"	22°II14	9°Ω59	24°28'	26°35'	25°47'	12°30'	0°26'	21°24'	28°55'	20°Y40	20°Y15	22°II36	13°Ω59	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22s57	19n53	2n15	17s33	1n59	15s18	1n41	20s46	1s18	3n26	1n14	17n33	0n55	23n47	0n16	4n34
F 2	23 2	23 37	3 8	17 56	1 52	15 40	1 40	20 35	1 17	3 24	1 15	17 34	0 56	23 47	0 16	4 34
S 3	23 7	26 21	3 54	18 19	1 45	16 2	1 38	20 23	1 17	3 22	1 15	17 35	0 56	23 47	0 16	4 34
S 4	23 11	27 54	4 29	18 42	1 37	16 23	1 37	20 11	1 16	3 20	1 15	17 35	0 56	23 47	0 17	4 34
M 5	23 15	28 10	4 52	19 5	1 29	16 44	1 35	19 59	1 16	3 18	1 15	17 36	0 56	23 47	0 17	4 34
T 6	23 19	27 8	5 3	19 29	1 21	17 5	1 33	19 47	1 15	3 17	1 16	17 37	0 56	23 47	0 17	4 34
W 7	23 22	24 50	5 0	19 51	1 14	17 25	1 31	19 34	1 15	3 15	1 16	17 38	0 56	23 47	0 17	4 34
T 8	23 25	21 25	4 44	20 14	1 6	17 45	1 30	19 21	1 14	3 13	1 16	17 39	0 57	23 47	0 17	4 33
F 9	23 27	17 2	4 15	20 36	0 58	18 4	1 28	19 8	1 14	3 12	1 16	17 39	0 57	23 47	0 17	4 33
S 10	23 29	11 52	3 33	20 57	0 50	18 23	1 26	18 55	1 13	3 10	1 17	17 40	0 57	23 47	0 17	4 33
S 11	23 30	6 6	2 39	21 18	0 42	18 41	1 24	18 42	1 13	3 9	1 17	17 41	0 57	23 47	0 17	4 33
M12	23 31	0s 5	1 36	21 38	0 34	18 59	1 22	18 28	1 12	3 8	1 17	17 42	0 57	23 47	0 17	4 33
T 13	23 31	6 26	0 26	21 57	0 26	19 16	1 20	18 15	1 11	3 6	1 18	17 43	0 58	23 47	0 17	4 33
W14	23 31	12 42	0s48	22 15	0 19	19 33	1 17	18 1	1 11	3 5	1 18	17 44	0 58	23 47	0 17	4 33
T 15	23 30	18 30	2 1	22 33	0 11	19 49	1 15	17 47	1 10	3 4	1 18	17 45	0 58	23 47	0 17	4 33
F 16	23 29	23 22	3 8	22 49	0 4	20 5	1 13	17 32	1 10	3 3	1 18	17 46	0 58	23 47	0 17	4 34
S 17	23 27	26 45	4 3	23 4	0s 4	20 20	1 11	17 18	1 9	3 2	1 19	17 47	0 58	23 47	0 17	4 34
S 18	23 25	28 12	4 41	23 19	0 11	20 34	1 8	17 3	1 9	3 1	1 19	17 48	0 58	23 47	0 17	4 34
M19	23 22	27 29	5 0	23 32	0 18	20 48	1 6	16 48	1 8	3 0	1 19	17 50	0 59	23 47	0 17	4 34
T 20	23 19	24 46	4 57	23 44	0 25	21 2	1 4	16 33	1 8	3 0	1 19	17 51	0 59	23 47	0 17	4 34
W21	23 16	20 27	4 34	23 56	0 32	21 14	1 1	16 18	1 7	2 59	1 20	17 52	0 59	23 47	0 17	4 34
T 22	23 12	15 4	3 55	24 5	0 38	21 27	0 59	16 3	1 6	2 58	1 20	17 53	0 59	23 47	0 17	4 34
F 23	23 7	9 7	3 3	24 14	0 45	21 38	0 56	15 48	1 6	2 58	1 20	17 54	0 59	23 47	0 17	4 34
S 24	23 3	2 57	2 2	24 22	0 51	21 49	0 54	15 32	1 5	2 58	1 21	17 55	0 59	23 47	0 17	4 34
S 25	22 57	3n 8	0 58	24 28	0 57	21 59	0 51	15 16	1 5	2 57	1 21	17 57	1 0	23 47	0 17	4 35
M26	22 51	8 55	0n 8	24 33	1 3	22 9	0 49	15 0	1 4	2 57	1 21	17 58	1 0	23 47	0 17	4 35
T 27	22 45	14 15	1 11	24 36	1 9	22 18	0 46	14 44	1 3	2 57	1 21	17 59	1 0	23 47	0 17	4 35
W28	22 38	18 58	2 11	24 39	1 14	22 26	0 44	14 28	1 3	2 57	1 22	18 0	1 0	23 47	0 17	4 35
T 29	22 31	22 53	3 4	24 40	1 19	22 34	0 41	14 12	1 2	2 56	1 22	18 2	1 0	23 47	0 17	4 35
F 30	22 24	25 51	3 49	24 39	1 24	22 41	0 38	13 55	1 2	2 56	1 22	18 3	1 0	23 47	0 17	4 36
S 31	22s16	27n40	4n24	24s37	1s29	22s47	0n36	13s39	1s 1	2n57	1n23	18n 4	1n 1	23n47	0n17	4n36

Julian Day Number = 2249543.5, Delta T = 06m35s
Ecliptic obliquity = 23°30'48", Nutation = - 0°00'07", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°01'27", Lahiri = 16°08'28" Julian Calendar 1 Dec. 1446 == Greg. Calendar 10 Dec. 1446