



Astrodienst Ephemeris Tables for the year 2045

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 2045
geocentric

JANUARY 2045

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 44 13	10°57'54	6°46	22°00	22°24	8°32	10°27	7°06	26°R29	12°R10	0°57	3°R12	4°40	24°33	19°11	S 1
M 2	6 48 10	11°59'02	21°40	23°24	23°39	9°19	10°41	7°12	26°R27	12°R9	0°58	3°R3	4°37	24°40	19°R1	M 2
T 3	6 52 6	13° 0'10	6°51	24°49	24°55	10° 6	10°54	7°19	26°26	12° 9	1° 0	2°55	4°34	24°46	19° 1	T 3
W 4	6 56 3	14° 1'18	22° 9	26°15	26°10	10°53	11° 7	7°25	26°24	12° 8	1° 1	2°48	4°31	24°53	19° 1	W 4
T 5	7 0 0	15° 2'26	7°023	27°41	27°25	11°41	11°21	7°31	26°22	12° 8	1° 2	2°44	4°28	25° 0	19° 1	T 5
F 6	7 3 56	16° 3'34	22°23	29° 8	28°40	12°28	11°35	7°37	26°20	12° 7	1° 3	2°41	4°24	25° 6	19° 0	F 6
S 7	7 7 53	17° 4'43	7°11	0°35	29°56	13°15	11°48	7°43	26°19	12° 7	1° 5	2°D41	4°21	25°13	19° 0	S 7
S 8	7 11 49	18° 5'51	21°14	2° 4	1°31	14° 3	12° 2	7°49	26°17	12° 6	1° 6	2°42	4°18	25°20	18°59	S 8
M 9	7 15 46	19° 6'59	5°0	3°32	2°26	14°50	12°15	7°55	26°15	12° 6	1° 7	2°43	4°15	25°27	18°58	M 9
T 10	7 19 42	20° 8'08	18°21	5° 2	3°41	15°37	12°29	8° 1	26°13	12° 5	1° 9	2°R44	4°12	25°33	18°58	T 10
W11	7 23 39	21° 9'16	1°120	6°31	4°57	16°25	12°43	8° 7	26°11	12° 5	1°10	2°43	4° 9	25°40	18°57	W11
T 12	7 27 35	22°10'25	13°59	8° 2	6°12	17°12	12°57	8°13	26° 9	12° 4	1°11	2°41	4° 5	25°47	18°55	T 12
F 13	7 31 32	23°11'33	26°24	9°33	7°27	17°59	13°11	8°19	26° 7	12° 4	1°13	2°37	4° 2	25°53	18°54	F 13
S 14	7 35 29	24°12'42	8°36	11° 4	8°42	18°47	13°25	8°24	26° 5	12° 4	1°14	2°31	3°59	26° 0	18°53	S 14
S 15	7 39 25	25°13'50	20°39	12°36	9°58	19°34	13°38	8°30	26° 3	12° 4	1°16	2°24	3°56	26° 7	18°51	S 15
M16	7 43 22	26°14'58	2°36	14° 8	11°13	20°21	13°52	8°35	26° 0	12° 3	1°17	2°17	3°53	26°13	18°50	M16
T 17	7 47 18	27°16'06	14°28	15°41	12°28	21° 9	14° 6	8°41	25°58	12° 3	1°18	2°10	3°50	26°20	18°48	T 17
W18	7 51 15	28°17'13	26°18	17°15	13°44	21°56	14°20	8°46	25°56	12° 3	1°20	2° 4	3°46	26°27	18°46	W18
T 19	7 55 11	29°18'19	8°6	18°49	14°59	22°44	14°34	8°52	25°54	12° 3	1°21	2° 0	3°43	26°33	18°45	T 19
F 20	7 59 8	0°19'25	19°56	20°23	16°14	23°31	14°49	8°57	25°52	12° 3	1°23	1°57	3°40	26°40	18°43	F 20
S 21	8 3 5	1°20'31	1°49	21°58	17°29	24°18	15° 3	9° 2	25°49	12° 3	1°24	1°D56	3°37	26°47	18°40	S 21
S 22	8 7 1	2°21'35	13°48	23°34	18°45	25° 6	15°17	9° 8	25°47	12°D3	1°26	1°57	3°34	26°53	18°38	S 22
M23	8 10 58	3°22'38	25°55	25°10	20° 0	25°53	15°31	9°13	25°45	12° 3	1°27	1°59	3°30	27° 0	18°36	M23
T 24	8 14 54	4°23'41	8°15	26°47	21°15	26°41	15°45	9°18	25°42	12° 3	1°29	2° 0	3°27	27° 7	18°33	T 24
W25	8 18 51	5°24'43	20°52	28°24	22°30	27°28	15°59	9°23	25°40	12° 3	1°30	2° 2	3°24	27°13	18°31	W25
T 26	8 22 47	6°25'43	3°49	0°2	23°46	28°15	16°13	9°28	25°37	12° 3	1°32	2°R3	3°21	27°20	18°28	T 26
F 27	8 26 44	7°26'43	17°10	1°40	25° 1	29° 3	16°28	9°33	25°35	12° 3	1°34	2° 2	3°18	27°27	18°26	F 27
S 28	8 30 40	8°27'41	0°157	3°19	26°16	29°50	16°42	9°37	25°32	12° 4	1°35	2° 1	3°15	27°33	18°23	S 28
S 29	8 34 37	9°28'38	15°12	4°59	27°31	0°38	16°56	9°42	25°30	12° 4	1°37	1°58	3°11	27°40	18°20	S 29
M30	8 38 34	10°29'34	29°51	6°40	28°47	1°25	17°10	9°47	25°27	12° 4	1°38	1°56	3° 8	27°47	18°17	M30
T 31	8 42 30	11°30'29	14°50	8°21	0°2	2°12	17°25	9°51	25°25	12°R4	1°40	1°53	3°15	27°53	18°14	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	22s59	26n28	5n 6	22s35	0n36	22s41	0n32	19s15	1s10	18s14	0s38	19s45	1n46	13n24	0n45	13n46
M 2	22 54	28 1	4 51	22 48	0 28	22 47	0 30	19 2	1 10	18 10	0 38	19 46	1 46	13 24	0 45	13 46
T 3	22 48	27 30	4 15	23 0	0 20	22 53	0 27	18 49	1 9	18 7	0 39	19 47	1 46	13 25	0 45	13 46
W 4	22 42	24 55	3 21	23 10	0 13	22 58	0 25	18 36	1 9	18 3	0 39	19 48	1 46	13 26	0 45	13 46
T 5	22 35	20 33	2 12	23 20	0 5	23 2	0 22	18 23	1 9	17 59	0 39	19 49	1 46	13 26	0 45	13 46
F 6	22 28	14 55	0 55	23 29	0s 3	23 6	0 20	18 10	1 9	17 56	0 39	19 50	1 46	13 27	0 46	13 46
S 7	22 21	8 34	0s23	23 36	0 10	23 9	0 17	17 56	1 8	17 52	0 39	19 51	1 46	13 28	0 46	13 46
S 8	22 13	1 58	1 39	23 43	0 17	23 11	0 15	17 42	1 8	17 48	0 39	19 52	1 46	13 28	0 46	13 46
M 9	22 4	4s31	2 46	23 48	0 25	23 13	0 12	17 28	1 8	17 44	0 39	19 53	1 46	13 29	0 46	13 45
T 10	21 56	10 37	3 42	23 52	0 31	23 14	0 10	17 14	1 8	17 41	0 39	19 54	1 46	13 30	0 46	13 45
W11	21 46	16 4	4 25	23 55	0 38	23 14	0 7	16 59	1 7	17 37	0 39	19 54	1 46	13 30	0 46	13 45
T 12	21 37	20 42	4 54	23 56	0 45	23 13	0 4	16 45	1 7	17 33	0 39	19 55	1 46	13 31	0 46	13 45
F 13	21 27	24 20	5 8	23 57	0 51	23 12	0 2	16 30	1 7	17 29	0 39	19 56	1 47	13 32	0 46	13 45
S 14	21 16	26 48	5 8	23 56	0 57	23 10	0s 1	16 15	1 7	17 25	0 39	19 57	1 47	13 32	0 46	13 45
S 15	21 5	28 0	4 55	23 53	1 3	23 7	0 3	16 0	1 6	17 21	0 39	19 58	1 47	13 33	0 46	13 45
M16	20 54	27 53	4 28	23 50	1 9	23 3	0 6	15 44	1 6	17 17	0 39	19 59	1 47	13 34	0 46	13 45
T 17	20 42	26 28	3 50	23 45	1 15	22 59	0 8	15 29	1 6	17 13	0 39	19 59	1 47	13 35	0 46	13 45
W18	20 30	23 52	3 2	23 39	1 20	22 54	0 11	15 13	1 5	17 9	0 39	20 0	1 47	13 35	0 46	13 45
T 19	20 18	20 17	2 7	23 31	1 25	22 49	0 13	14 58	1 5	17 5	0 39	20 1	1 47	13 36	0 46	13 45
F 20	20 5	15 52	1 5	23 22	1 30	22 42	0 16	14 42	1 5	17 1	0 39	20 2	1 47	13 37	0 46	13 45
S 21	19 51	10 50	0 1	23 12	1 34	22 35	0 18	14 26	1 4	16 57	0 39	20 2	1 47	13 38	0 46	13 45
S 22	19 38	5 23	1n 5	23 0	1 39	22 28	0 20	14 9	1 4	16 53	0 39	20 3	1 47	13 39	0 46	13 45
M23	19 24	0n20	2 8	22 47	1 43	22 19	0 23	13 53	1 4	16 49	0 39	20 4	1 47	13 39	0 46	13 45
T 24	19 10	6 8	3 6	22 32	1 46	22 10	0 25	13 37	1 3	16 44	0 39	20 4	1 47	13 40	0 46	13 46
W25	18 55	11 48	3 57	22 16	1 50	22 0	0 27	13 20	1 3	16 40	0 40	20 5	1 48	13 41	0 46	13 46
T 26	18 40	17 8	4 38	21 59	1 53	21 50	0 30	13 3	1 2	16 36	0 40	20 6	1 48	13 42	0 46	13 46
F 27	18 24	21 49	5 4	21 40	1 56	21 39	0 32	12 46	1 2	16 32	0 40	20 6	1 48	13 43	0 46	13 46
S 28	18 9	25 29	5 15	21 19	1 58	21 27	0 34	12 29	1 2	16 28	0 40	20 7	1 48	13 44	0 46	13 46
S 29	17 53	27 42	5 7	20 58	2 0	21 15	0 37	12 12	1 1	16 23	0 40	20 7	1 48	13 45	0 46	13 46
M30	17 36	28 5	4 39	20 34	2 2	21 2	0 39	11 55	1 1	16 19	0 40	20 8	1 48	13 45	0 46	13 46
T 31	17s20	26n26	3n51	20s 9	2s 3	20s48	0s41	11s38	1s 1	16s15	0s40	20s 9	1n48	13n46	0n46	13n46

Julian Day Number = 2467981.5, Delta T = 73.16 sec
Ecliptic obliquity = 23°26'08, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 25°22'08, Lahiri = 24°29'09

ASTRODIENST EPHEMERIS for the year 2045
geocentric

FEBRUARY 2045

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 46 27	12 ³¹ 23	0 ⁰ 2	10 ³ 3	1 ¹⁸ 17	3 ³ 0	17 ³⁹ 39	9 ⁵⁶ 56	25 ²² 22	12 ⁸ 5	1 ⁴² 42	1 ⁵⁰ 50	3 ² 2	28 ⁰ 0	18 ¹¹ 11	W 1
T 2	8 50 23	13 ³² 15	15 ¹ 15	11 ⁴⁶ 46	2 ³² 32	3 ⁴⁷ 47	17 ⁵³ 53	10 ⁰ 0	25 ²⁰ 20	12 ⁵ 5	1 ⁴³ 43	1 ⁴⁹ 49	2 ⁵⁹ 59	28 ⁷ 7	18 ¹⁷ 17	T 2
F 3	8 54 20	14 ³³ 07	0 ¹⁷ 22	13 ²⁹ 29	3 ⁴⁸ 48	4 ³⁴ 34	18 ⁸ 8	10 ⁵ 5	25 ¹⁷ 17	12 ⁵ 5	1 ⁴⁵ 45	1 ⁵⁰ 50	2 ⁵⁶ 56	28 ¹³ 13	18 ⁴ 4	F 3
S 4	8 58 16	15 ³³ 57	15 ¹¹ 11	15 ¹³ 13	5 ³ 3	5 ²² 22	18 ²² 22	10 ⁹ 9	25 ¹⁵ 15	12 ⁶ 6	1 ⁴⁶ 46	1 ⁴⁸ 48	2 ⁵² 52	28 ²⁰ 20	18 ¹ 1	S 4
S 5	9 2 13	16 ³⁴ 47	29 ³⁸ 38	16 ⁵⁸ 58	6 ¹⁸ 18	6 ⁹ 9	18 ³⁶ 36	10 ¹³ 13	25 ¹² 12	12 ⁶ 6	1 ⁴⁸ 48	1 ⁴⁹ 49	2 ⁴⁹ 49	28 ²⁷ 27	17 ⁵⁷ 57	S 5
M 6	9 6 9	17 ³⁵ 35	13 ³⁸ 38	18 ⁴³ 43	7 ³³ 33	6 ⁵⁶ 56	18 ⁵¹ 51	10 ¹⁷ 17	25 ¹⁰ 10	12 ⁷ 7	1 ⁵⁰ 50	1 ⁵¹ 51	2 ⁴⁶ 46	28 ³³ 33	17 ⁵⁴ 54	M 6
T 7	9 10 6	18 ³⁶ 23	27 ¹¹ 11	20 ²⁹ 29	8 ⁴⁸ 48	7 ⁴⁴ 44	19 ⁵ 5	10 ²¹ 21	25 ⁷ 7	12 ⁷ 7	1 ⁵¹ 51	1 ⁵² 52	2 ⁴³ 43	28 ⁴⁰ 40	17 ⁵⁰ 50	T 7
W 8	9 14 3	19 ³⁷ 09	10 ¹⁸ 18	22 ¹⁶ 16	10 ⁴ 4	8 ³¹ 31	19 ¹⁹ 19	10 ²⁵ 25	25 ⁴ 4	12 ⁸ 8	1 ⁵³ 53	1 ⁵² 52	2 ⁴⁰ 40	28 ⁴⁷ 47	17 ⁴⁶ 46	W 8
T 9	9 17 59	20 ³⁷ 55	23 ¹ 1	24 ³ 3	11 ¹⁹ 19	9 ¹⁸ 18	19 ³⁴ 34	10 ²⁹ 29	25 ² 2	12 ⁹ 9	1 ⁵⁵ 55	1 ⁵³ 53	2 ³⁶ 36	28 ⁵³ 53	17 ⁴² 42	T 9
F 10	9 21 56	21 ³⁸ 40	5 ²⁵ 25	25 ⁵¹ 51	12 ³⁴ 34	10 ⁵ 5	19 ⁴⁸ 48	10 ³³ 33	24 ⁵⁹ 59	12 ⁹ 9	1 ⁵⁶ 56	1 ⁵² 52	2 ³³ 33	29 ⁰ 0	17 ³⁹ 39	F 10
S 11	9 25 52	22 ³⁹ 23	17 ³⁴ 34	27 ⁴⁰ 40	13 ⁴⁹ 49	10 ⁵³ 53	20 ² 2	10 ³⁶ 36	24 ⁵⁶ 56	12 ¹⁰ 10	1 ⁵⁸ 58	1 ⁵¹ 51	2 ³⁰ 30	29 ⁷ 7	17 ³⁵ 35	S 11
S 12	9 29 49	23 ⁴⁰ 06	29 ³³ 33	29 ²⁹ 29	15 ⁴ 4	11 ⁴⁰ 40	20 ¹⁷ 17	10 ⁴⁰ 40	24 ⁵⁴ 54	12 ¹¹ 11	2 ⁰ 0	1 ⁵⁰ 50	2 ²⁷ 27	29 ¹³ 13	17 ³¹ 31	S 12
M13	9 33 45	24 ⁴⁰ 48	11 ³⁵ 25	1 ¹⁹ 19	16 ²⁰ 20	12 ²⁷ 27	20 ³¹ 31	10 ⁴⁴ 44	24 ⁵¹ 51	12 ¹¹ 11	2 ¹ 1	1 ⁴⁹ 49	2 ²⁴ 24	29 ²⁰ 20	17 ²⁷ 27	M13
T 14	9 37 42	25 ⁴¹ 28	23 ¹³ 13	3 ⁹ 9	17 ³⁵ 35	13 ¹⁴ 14	20 ⁴⁵ 45	10 ⁴⁷ 47	24 ⁴⁹ 49	12 ¹² 12	2 ³ 3	1 ⁴⁸ 48	2 ²¹ 21	29 ²⁷ 27	17 ²² 22	T 14
W15	9 41 38	26 ⁴² 07	5 ¹ 1	4 ⁵⁹ 59	18 ⁵⁰ 50	14 ² 2	20 ⁵⁹ 59	10 ⁵⁰ 50	24 ⁴⁶ 46	12 ¹³ 13	2 ⁵ 5	1 ⁴⁷ 47	2 ¹⁷ 17	29 ³³ 33	17 ¹⁸ 18	W15
T 16	9 45 35	27 ⁴² 44	16 ⁵² 52	6 ⁴⁹ 49	20 ⁵ 5	14 ⁴⁹ 49	21 ¹⁴ 14	10 ⁵⁴ 54	24 ⁴³ 43	12 ¹⁴ 14	2 ⁶ 6	1 ⁴⁷ 47	2 ¹⁴ 14	29 ⁴⁰ 40	17 ¹⁴ 14	T 16
F 17	9 49 32	28 ⁴³ 21	28 ⁴⁷ 47	8 ³⁹ 39	21 ²⁰ 20	15 ³⁶ 36	21 ²⁸ 28	10 ⁵⁷ 57	24 ⁴¹ 41	12 ¹⁵ 15	2 ⁸ 8	1 ⁴⁷ 47	2 ¹¹ 11	29 ⁴⁷ 47	17 ¹⁰ 10	F 17
S 18	9 53 28	29 ⁴³ 55	10 ⁴⁹ 49	10 ²⁹ 29	22 ³⁵ 35	16 ²³ 23	21 ⁴² 42	11 ⁰ 0	24 ³⁸ 38	12 ¹⁶ 16	2 ¹⁰ 10	1 ⁴⁷ 47	2 ⁸ 8	29 ⁵³ 53	17 ⁵ 5	S 18
S 19	9 57 25	0 ⁴⁴ 28	23 ⁰ 0	12 ¹⁸ 18	23 ⁵⁰ 50	17 ¹⁰ 10	21 ⁵⁷ 57	11 ³ 3	24 ³⁵ 35	12 ¹⁷ 17	2 ¹² 12	1 ⁴⁷ 47	2 ⁵ 5	0 ⁰ 0	17 ¹ 1	S 19
M20	10 1 21	1 ⁴⁴ 59	5 ²⁰ 20	14 ⁶ 6	25 ⁶ 6	17 ⁵⁷ 57	22 ¹¹ 11	11 ⁶ 6	24 ³³ 33	12 ¹⁸ 18	2 ¹³ 13	1 ⁴⁷ 47	2 ² 2	0 ⁷ 7	16 ⁵⁷ 57	M20
T 21	10 5 18	2 ⁴⁵ 29	17 ⁵³ 53	15 ⁵³ 53	26 ²¹ 21	18 ⁴⁴ 44	22 ²⁵ 25	11 ⁸ 8	24 ³⁰ 30	12 ¹⁹ 19	2 ¹⁵ 15	1 ⁴⁷ 47	1 ⁵⁸ 58	0 ¹³ 13	16 ⁵² 52	T 21
W22	10 9 14	3 ⁴⁵ 57	0 ⁴⁰ 40	17 ³⁹ 39	27 ³⁶ 36	19 ³¹ 31	22 ³⁹ 39	11 ¹¹ 11	24 ²⁸ 28	12 ²⁰ 20	2 ¹⁷ 17	1 ⁴⁷ 47	1 ⁵⁵ 55	0 ²⁰ 20	16 ⁴⁸ 48	W22
T 23	10 13 11	4 ⁴⁶ 23	13 ⁴² 42	19 ²² 22	28 ⁵¹ 51	20 ¹⁸ 18	22 ⁵³ 53	11 ¹⁴ 14	24 ²⁵ 25	12 ²¹ 21	2 ¹⁸ 18	1 ⁴⁷ 47	1 ⁵² 52	0 ²⁷ 27	16 ⁴³ 43	T 23
F 24	10 17 7	5 ⁴⁶ 47	27 ³ 3	21 ³ 3	0 ⁴ 4	21 ⁵ 5	23 ⁸ 8	11 ¹⁶ 16	24 ²² 22	12 ²² 22	2 ²⁰ 20	1 ⁴⁶ 46	1 ⁴⁹ 49	0 ³³ 33	16 ³⁸ 38	F 24
S 25	10 21 4	6 ⁴⁷ 09	10 ⁴³ 43	22 ⁴¹ 41	1 ²¹ 21	21 ⁵² 52	23 ²² 22	11 ¹⁹ 19	24 ²⁰ 20	12 ²³ 23	2 ²² 22	1 ⁴⁶ 46	1 ⁴⁶ 46	0 ⁴⁰ 40	16 ³⁴ 34	S 25
S 26	10 25 1	7 ⁴⁷ 30	24 ⁴³ 43	24 ¹⁵ 15	2 ³⁶ 36	22 ³⁹ 39	23 ³⁶ 36	11 ²¹ 21	24 ¹⁷ 17	12 ²⁴ 24	2 ²³ 23	1 ⁴⁷ 47	1 ⁴² 42	0 ⁴⁷ 47	16 ²⁹ 29	S 26
M27	10 28 57	8 ⁴⁷ 48	9 ³ 3	25 ⁴⁶ 46	3 ⁵¹ 51	23 ²⁶ 26	23 ⁵⁰ 50	11 ²³ 23	24 ¹⁵ 15	12 ²⁵ 25	2 ²⁵ 25	1 ⁴⁷ 47	1 ³⁹ 39	0 ⁵³ 53	16 ²⁵ 25	M27
T 28	10 32 54	9 ⁴⁸ 04	23 ³⁹ 39	27 ¹¹ 11	5 ⁴ 4	24 ¹³ 13	24 ⁴⁴ 44	11 ²⁵ 25	24 ¹² 12	12 ²⁷ 27	2 ²⁷ 27	1 ⁴⁸ 48	1 ³⁶ 36	1 ⁵⁰ 50	16 ²⁰ 20	T 28

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
W 1	17s 3	22n51	2n47	19s43	2s 4	20s34	0s43	11s20	1s 0	16s11	0s40	20s 9	1n48	13n47	0n46	13n47
T 2	16 45	17 42	1 30	19 15	2 5	20 19	0 45	11 3	1 0	16 6	0 40	20 10	1 48	13 48	0 46	13 47
F 3	16 28	11 28	0 8	18 46	2 5	20 4	0 47	10 45	0 59	16 2	0 40	20 10	1 48	13 49	0 46	13 47
S 4	16 10	4 42	1s13	18 16	2 5	19 48	0 49	10 27	0 59	15 58	0 40	20 11	1 49	13 50	0 46	13 47
S 5	15 52	2s 7	2 28	17 43	2 4	19 31	0 51	10 10	0 58	15 53	0 40	20 11	1 49	13 51	0 46	13 47
M 6	15 34	8 38	3 32	17 10	2 3	19 14	0 53	9 52	0 58	15 49	0 40	20 12	1 49	13 51	0 46	13 48
T 7	15 15	14 31	4 21	16 35	2 1	18 56	0 55	9 34	0 58	15 44	0 40	20 12	1 49	13 52	0 46	13 48
W 8	14 56	19 34	4 55	15 58	1 59	18 38	0 57	9 16	0 57	15 40	0 41	20 13	1 49	13 53	0 46	13 48
T 9	14 37	23 34	5 13	15 20	1 57	18 19	0 58	8 57	0 57	15 36	0 41	20 13	1 49	13 54	0 46	13 48
F 10	14 17	26 23	5 16	14 41	1 53	18 0	1 0	8 39	0 56	15 31	0 41	20 13	1 49	13 55	0 46	13 48
S 11	13 58	27 55	5 5	14 0	1 50	17 40	1 2	8 21	0 56	15 27	0 41	20 14	1 49	13 56	0 46	13 49
S 12	13 38	28 7	4 41	13 18	1 45	17 19	1 4	8 2	0 55	15 22	0 41	20 14	1 49	13 57	0 46	13 49
M13	13 18	27 1	4 5	12 34	1 40	16 59	1 5	7 44	0 55	15 18	0 41	20 15	1 50	13 58	0 46	13 49
T 14	12 57	24 42	3 18	11 50	1 35	16 37	1 7	7 25	0 54	15 13	0 41	20 15	1 50	13 59	0 46	13 50
W15	12 37	21 19	2 23	11 4	1 29	16 15	1 8	7 7	0 54	15 9	0 41	20 15	1 50	13 59	0 46	13 50
T 16	12 16	17 5	1 22	10 17	1 22	15 53	1 10	6 48	0 53	15 4	0 41	20 16	1 50	14 0	0 46	13 50
F 17	11 55	12 9	0 17	9 29	1 15	15 30	1 11	6 29	0 53	15 0	0 41	20 16	1 50	14 1	0 46	13 51
S 18	11 34	6 44	0n50	8 40	1 7	15 7	1 12	6 11	0 52	14 55	0 41	20 16	1 50	14 2	0 46	13 51
S 19	11 13	1 1	1 55	7 50	0 58	14 44	1 14	5 52	0 52	14 51	0 41	20 16	1 50	14 3	0 46	13 51
M20	10 51	4n49	2 56	7 0	0 48	14 20	1 15	5 33	0 51	14 46	0 42	20 17	1 50	14 4	0 46	13 52
T 21	10 29	10 33	3 49	6 9	0 38	13 55	1 16	5 14	0 51	14 42	0 42	20 17	1 51	14 5	0 46	13 52
W22	10 8	15 57	4 32	5 18	0 28	13 31	1 17	4 55	0 50	14 37	0 42	20 17	1 51	14 6	0 46	13 52
T 23	9 46	20 45	5 2	4 27	0 16	13 6	1 18	4 36	0 50	14 33	0 42	20 17	1 51	14 6	0 46	13 53
F 24	9 23	24 38	5 17	3 37	0 4	12 40	1 19	4 17	0 49	14 28	0 42	20 18	1 51	14 7	0 46	13 53
S 25	9 1	27 13	5 14	2 47	0n 8	12 14	1 20	3 58	0 49	14 23	0 42	20 18	1 51	14 8	0 46	13 53
S 26	8 39	28 12	4 53	1 57	0 21	11 48	1 21	3 39	0 48	14 19	0 42	20 18	1 51	14 9	0 46	13 54
M27	8 16	27 20	4 13	1 9	0 35	11 22	1 22	3 20	0 48	14 14	0 42	20 18	1 51	14 10	0 46	13 54
T 28	7s54	24n35	3n16	0s22	0n49	10s55	1s22	3s 1	0s47	14s10	0s42	20s18	1n52	14n11	0n46	13n55

Julian Day Number = 2468012.5, Delta T = 73.18 sec
Ecliptic ob

ASTRODIENST EPHEMERIS for the year 2045
geocentric

MARCH 2045

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 36 50	10♌48'19	8♏28	28♌32	6♌21	25♌0	24♌18	11♌27	24♌R10	12♌28	2♌28	1♌48	1♌33	1♌7	16♌R15	W 1
T 2	10 40 47	11°48'31	23°23	29°46	7°36	25°47	24°32	11°29	24♏7	12°29	2°30	1°49	1°30	1°13	16♏10	T 2
F 3	10 44 43	12°48'41	8♏17	0♏54	8°51	26°33	24°46	11°31	24°5	12°30	2°32	1°R49	1°27	1°20	16°6	F 3
S 4	10 48 40	13°48'50	23°1	1°55	10°6	27°20	25°0	11°33	24°2	12°32	2°33	1°48	1°23	1°27	16°1	S 4
S 5	10 52 36	14°48'56	7♏28	2°48	11°21	28°7	25°14	11°34	24°0	12°33	2°35	1°47	1°20	1°33	15°56	S 5
M 6	10 56 33	15°49'01	21°34	3°33	12°36	28°53	25°28	11°36	23°58	12°35	2°37	1°45	1°17	1°40	15°51	M 6
T 7	11 0 29	16°49'05	5♏14	4°10	13°51	29°40	25°42	11°37	23°55	12°36	2°38	1°43	1°14	1°47	15°47	T 7
W 8	11 4 26	17°49'06	18°29	4°37	15°6	0♏27	25°56	11°39	23°53	12°37	2°40	1°41	1°11	1°53	15°42	W 8
T 9	11 8 23	18°49'07	1♌19	4°56	16°20	1°13	26°9	11°40	23°51	12°39	2°42	1°40	1°7	2°0	15°37	T 9
F 10	11 12 19	19°49'05	13°48	5°6	17°35	2°0	26°23	11°41	23°48	12°40	2°43	1°39	1°4	2°7	15°32	F 10
S 11	11 16 16	20°49'02	26°0	5°R7	18°50	2°46	26°37	11°42	23°46	12°42	2°45	1°D39	1°1	2°13	15°28	S 11
S 12	11 20 12	21°48'58	7♏58	5°0	20°5	3°33	26°51	11°43	23°44	12°44	2°47	1°40	0°58	2°20	15°23	S 12
M13	11 24 9	22°48'51	19°49	4°43	21°20	4°19	27°4	11°44	23°42	12°45	2°48	1°41	0°55	2°27	15°18	M13
T 14	11 28 5	23°48'43	1♌37	4°19	22°35	5°6	27°18	11°45	23°39	12°47	2°50	1°43	0°52	2°33	15°14	T 14
W15	11 32 2	24°48'33	13°26	3°48	23°49	5°52	27°31	11°45	23°37	12°48	2°51	1°45	0°48	2°40	15°9	W15
T 16	11 35 58	25°48'21	25°20	3°10	25°4	6°38	27°45	11°46	23°35	12°50	2°53	1°46	0°45	2°47	15°4	T 16
F 17	11 39 55	26°48'08	7♌23	2°26	26°19	7°25	27°58	11°46	23°33	12°52	2°55	1°R46	0°42	2°53	15°0	F 17
S 18	11 43 52	27°47'52	19°36	1°37	27°34	8°11	28°12	11°47	23°31	12°53	2°56	1°44	0°39	3°0	14°55	S 18
S 19	11 47 48	28°47'35	2♏2	0°46	28°49	8°57	28°25	11°47	23°29	12°55	2°58	1°42	0°36	3°7	14°50	S 19
M20	11 51 45	29°47'15	14°41	29♌52	0♏3	9°43	28°39	11°47	23°27	12°57	2°59	1°38	0°33	3°13	14°46	M20
T 21	11 55 41	0♏46'54	27°34	28°57	1°18	10°30	28°52	11°R47	23°25	12°59	3°1	1°33	0°29	3°20	14°41	T 21
W22	11 59 38	1°46'30	10♌41	28°2	2°33	11°16	29°5	11°47	23°23	13°0	3°2	1°28	0°26	3°27	14°37	W22
T 23	12 3 34	2°46'04	24°0	27°8	3°47	12°2	29°18	11°47	23°21	13°2	3°4	1°24	0°23	3°33	14°33	T 23
F 24	12 7 31	3°45'36	7♏13	26°17	5°2	12°48	29°31	11°47	23°19	13°4	3°5	1°20	0°20	3°40	14°28	F 24
S 25	12 11 27	4°45'06	21°18	25°28	6°17	13°34	29°44	11°46	23°18	13°6	3°7	1°18	0°17	3°47	14°24	S 25
S 26	12 15 24	5°44'34	5♏14	24°44	7°31	14°20	29°57	11°46	23°16	13°8	3°8	1°D17	0°13	3°53	14°20	S 26
M27	12 19 21	6°43'59	19°21	24°4	8°46	15°6	0♌10	11°45	23°14	13°10	3°10	1°17	0°10	4°0	14°16	M27
T 28	12 23 17	7°43'21	3♏38	23°30	10°1	15°52	0°23	11°44	23°13	13°11	3°11	1°19	0°7	4°7	14°11	T 28
W29	12 27 14	8°42'42	18°2	23°0	11°15	16°37	0°36	11°44	23°11	13°13	3°13	1°20	0°4	4°13	14°7	W29
T 30	12 31 10	9°42'00	2♏30	22°37	12°30	17°23	0°48	11°43	23°9	13°15	3°14	1°R21	0°1	4°20	14°3	T 30
F 31	12 35 7	10♏41'15	16♏58	22♌19	13♏44	18♏9	1♌1	11♌42	23♏8	13♌17	3♌16	1♌20	29♌58	4♌27	13♏59	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
W 1	7s31	20n10	2n 6	0n22	1n 3	10s28	1s23	2s42	0s47	14s 5	0s42	20s18	1n52	14n11	0n46	13n55
T 2	7 8	14 27	0 47	1 5	1 17	10 1	1 24	2 23	0 46	14 1	0 43	20 19	1 52	14 12	0 46	13 56
F 3	6 45	7 55	0s36	1 45	1 31	9 33	1 24	2 4	0 46	13 56	0 43	20 19	1 52	14 13	0 46	13 56
S 4	6 22	1 1	1 55	2 22	1 45	9 5	1 25	1 45	0 45	13 51	0 43	20 19	1 52	14 14	0 46	13 57
S 5	5 59	5s48	3 5	2 56	2 0	8 37	1 25	1 26	0 45	13 47	0 43	20 19	1 52	14 15	0 46	13 57
M 6	5 36	12 9	4 2	3 27	2 13	8 9	1 25	1 7	0 44	13 42	0 43	20 19	1 52	14 15	0 46	13 57
T 7	5 12	17 43	4 43	3 54	2 26	7 40	1 26	0 48	0 44	13 38	0 43	20 19	1 53	14 16	0 46	13 58
W 8	4 49	22 15	5 8	4 16	2 39	7 12	1 26	0 29	0 43	13 33	0 43	20 19	1 53	14 17	0 46	13 58
T 9	4 25	25 35	5 16	4 34	2 51	6 43	1 26	0 10	0 42	13 29	0 43	20 19	1 53	14 18	0 46	13 59
F 10	4 2	27 34	5 9	4 48	3 1	6 14	1 26	0n 9	0 42	13 24	0 43	20 19	1 53	14 19	0 46	13 59
S 11	3 38	28 11	4 48	4 57	3 11	5 44	1 26	0 28	0 41	13 19	0 44	20 19	1 53	14 19	0 46	14 0
S 12	3 15	27 26	4 15	5 2	3 19	5 15	1 26	0 47	0 41	13 15	0 44	20 19	1 53	14 20	0 46	14 0
M13	2 51	25 27	3 31	5 1	3 25	4 45	1 26	1 6	0 40	13 10	0 44	20 19	1 53	14 21	0 46	14 1
T 14	2 27	22 23	2 39	4 56	3 30	4 16	1 26	1 25	0 40	13 6	0 44	20 19	1 53	14 21	0 46	14 1
W15	2 4	18 22	1 39	4 47	3 34	3 46	1 26	1 44	0 39	13 1	0 44	20 19	1 54	14 22	0 46	14 2
T 16	1 40	13 38	0 35	4 33	3 35	3 16	1 25	2 3	0 38	12 57	0 44	20 19	1 54	14 23	0 46	14 3
F 17	1 16	8 19	0n31	4 15	3 34	2 46	1 25	2 22	0 38	12 52	0 44	20 19	1 54	14 23	0 46	14 3
S 18	0 53	2 38	1 37	3 53	3 32	2 16	1 25	2 41	0 37	12 48	0 44	20 19	1 54	14 24	0 46	14 4
S 19	0 29	3n14	2 39	3 28	3 27	1 46	1 24	2 59	0 37	12 43	0 45	20 19	1 54	14 25	0 46	14 4
M20	0 5	9 4	3 34	3 1	3 21	1 15	1 24	3 18	0 36	12 39	0 45	20 19	1 54	14 25	0 46	14 5
T 21	0n19	14 38	4 20	2 32	3 13	0 45	1 23	3 37	0 35	12 34	0 45	20 18	1 54	14 26	0 46	14 5
W22	0 42	19 39	4 52	2 1	3 3	0 15	1 22	3 55	0 35	12 30	0 45	20 18	1 55	14 27	0 46	14 6
T 23	1 6	23 46	5 10	1 30	2 52	0n15	1 22	4 14	0 34	12 25	0 45	20 18	1 55	14 27	0 46	14 6
F 24	1 30	26 40	5 11	0 58	2 40	0 46	1 21	4 32	0 34	12 21	0 45	20 18	1 55	14 28	0 46	14 7
S 25	1 53	28 2	4 54	0 26	2 26	1 16	1 20	4 51	0 33	12 16	0 45	20 18	1 55	14 28	0 46	14 8
S 26	2 17	27 39	4 19	0s 5	2 12	1 46	1 19	5 9	0 32	12 12	0 46	20 18	1 55	14 29	0 46	14 8
M27	2 40	25 29	3 29	0 34	1 57	2 17	1 18	5 27	0 32	12 7	0 46	20 17	1 55	14 29	0 46	14 9
T 28	3 4	21 42	2 25	1 2	1 41	2 47	1 17	5 46	0 31	12 3	0 46	20 17	1 55	14 30	0 46	14 9
W29	3 27	16 34	1 12	1 28	1 26	3 17	1 16	6 4	0 30	11 59	0 46	20 17	1 55	14 30	0 46	14 10
T 30	3 51	10 29	0s 6	1 52	1 10	3 47	1 15	6 22	0 30	11 54	0 46	20 17	1 56	14 31	0 46	14 11
F 31	4n14	3n51	1s24	2s13	0n54	4n17	1s14	6n40	0s29	11s50	0s46	20s16	1n56	14n31	0n46	14n11

Julian Day Number = 2468040.5, Delta T = 73.20 sec
Ecliptic obliquity = 23°26'09, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 25°22'16, Lahiri = 24°29'17

ASTRODIENST EPHEMERIS for the year 2045
geocentric

APRIL 2045

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 39 3	11°40'29	1°21	22°R 6	14°V59	18°V55	1°K14	11°R41	23°R 6	13°B19	3°K17	1°R17	29°54	4°33	13°R56	S 1
S 2	12 43 0	12°39'40	15°33	22°K 0	16°13	19°40	1°26	11°K40	23°B 5	13°21	3°18	1°K12	29°51	4°40	13°K52	S 2
M 3	12 46 56	13°38'49	29°29	21°D59	17°28	20°26	1°39	11°38	23° 4	13°23	3°20	1° 5	29°48	4°47	13°48	M 3
T 4	12 50 53	14°37'57	13°M 6	22° 4	18°42	21°11	1°51	11°37	23° 2	13°25	3°21	0°58	29°45	4°53	13°44	T 4
W 5	12 54 50	15°37'02	26°20	22°14	19°56	21°57	2° 3	11°36	23° 1	13°27	3°22	0°51	29°42	5° 0	13°41	W 5
T 6	12 58 46	16°36'06	9°K13	22°29	21°11	22°42	2°16	11°34	23° 0	13°29	3°24	0°44	29°39	5° 6	13°37	T 6
F 7	13 2 43	17°35'08	21°44	22°50	22°25	23°28	2°28	11°32	22°58	13°31	3°25	0°39	29°35	5°13	13°34	F 7
S 8	13 6 39	18°34'09	3°B58	23°14	23°40	24°13	2°40	11°31	22°57	13°34	3°26	0°36	29°32	5°20	13°30	S 8
S 9	13 10 36	19°33'07	15°58	23°44	24°54	24°58	2°52	11°29	22°56	13°36	3°28	0°D35	29°29	5°26	13°27	S 9
M10	13 14 32	20°32'04	27°50	24°17	26° 8	25°44	3° 4	11°27	22°55	13°38	3°29	0°35	29°26	5°33	13°24	M10
T 11	13 18 29	21°30'59	9°K39	24°55	27°23	26°29	3°16	11°25	22°54	13°40	3°30	0°36	29°23	5°40	13°21	T 11
W12	13 22 25	22°29'52	21°29	25°36	28°37	27°14	3°27	11°23	22°53	13°42	3°31	0°37	29°19	5°46	13°18	W12
T 13	13 26 22	23°28'43	3°K26	26°22	29°51	27°59	3°39	11°21	22°52	13°44	3°32	0°R37	29°16	5°53	13°15	T 13
F 14	13 30 19	24°27'32	15°35	27°10	1°B 5	28°44	3°51	11°18	22°51	13°46	3°34	0°36	29°13	6° 0	13°12	F 14
S 15	13 34 15	25°26'20	27°58	28° 2	2°20	29°29	4° 2	11°16	22°51	13°48	3°35	0°33	29°10	6° 6	13° 9	S 15
S 16	13 38 12	26°25'06	10°V39	28°57	3°34	0°B14	4°13	11°14	22°50	13°51	3°36	0°27	29° 7	6°13	13° 7	S 16
M17	13 42 8	27°23'50	23°37	29°55	4°48	0°59	4°25	11°11	22°49	13°53	3°37	0°19	29° 4	6°20	13° 4	M17
T 18	13 46 5	28°22'32	6°B53	0°V56	6° 2	1°44	4°36	11° 9	22°48	13°55	3°38	0° 9	29° 0	6°26	13° 2	T 18
W19	13 50 1	29°21'12	20°25	1°59	7°16	2°29	4°47	11° 6	22°48	13°57	3°39	29°59	28°57	6°33	12°59	W19
T 20	13 53 58	0°B19'50	4°B 9	3° 6	8°31	3°14	4°58	11° 3	22°47	13°59	3°40	29°49	28°54	6°40	12°57	T 20
F 21	13 57 54	1°18'26	18° 4	4°14	9°45	3°58	5° 9	11° 0	22°47	14° 2	3°41	29°41	28°51	6°46	12°55	F 21
S 22	14 1 51	2°17'00	2°B 5	5°25	10°59	4°43	5°20	10°57	22°46	14° 4	3°42	29°35	28°48	6°53	12°53	S 22
S 23	14 5 48	3°15'32	16°10	6°39	12°13	5°28	5°31	10°54	22°46	14° 6	3°43	29°32	28°45	7° 0	12°51	S 23
M24	14 9 44	4°14'01	0°B17	7°54	13°27	6°12	5°41	10°51	22°46	14° 8	3°44	29°D31	28°41	7° 6	12°49	M24
T 25	14 13 41	5°12'28	14°25	9°12	14°41	6°57	5°52	10°48	22°45	14°10	3°45	29°31	28°38	7°13	12°47	T 25
W26	14 17 37	6°10'53	28°32	10°32	15°55	7°41	6° 2	10°45	22°45	14°13	3°46	29°R31	28°35	7°20	12°45	W26
T 27	14 21 34	7° 9'16	12°K37	11°54	17° 9	8°26	6°13	10°42	22°45	14°15	3°47	29°31	28°32	7°26	12°44	T 27
F 28	14 25 30	8° 7'37	26°39	13°19	18°23	9°10	6°23	10°38	22°45	14°17	3°48	29°28	28°29	7°33	12°42	F 28
S 29	14 29 27	9° 5'56	10°B36	14°45	19°37	9°54	6°33	10°35	22°45	14°19	3°49	29°23	28°25	7°40	12°41	S 29
S 30	14 33 23	10°B 4'12	24°B23	16°V13	20°B51	10°B39	6°K43	10°K31	22°D45	14°B22	3°K50	29°515	28°22	7°46	12°K40	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	4n37	2s55	2s36	2s32	0n39	4n47	1s12	6n58	0s29	11s46	0s47	20s16	1n56	14n32	0n46	14n12	1s43	20s49	11s19	11s 1	11s30	21s16	1n27	5s17				
S 2	5 0	9 27	3 37	2 49	0 24	5 17	1 11	7 16	0 28	11 41	0 47	20 16	1 56	14 32	0 46	14 12	1 43	20 49	11 20	11 3	11 31	21 13	1 29	5 16				
M 3	5 23	15 24	4 24	3 3	0 9	5 47	1 10	7 33	0 27	11 37	0 47	20 16	1 56	14 33	0 46	14 13	1 43	20 49	11 20	11 5	11 32	21 11	1 31	5 16				
T 4	5 46	20 26	4 54	3 14	0s 6	6 16	1 8	7 51	0 27	11 33	0 47	20 15	1 56	14 33	0 46	14 14	1 43	20 48	11 20	11 8	11 34	21 9	1 33	5 15				
W 5	6 9	24 19	5 8	3 23	0 19	6 46	1 7	8 9	0 26	11 29	0 47	20 15	1 56	14 34	0 45	14 14	1 43	20 48	11 20	11 10	11 35	21 6	1 34	5 15				
T 6	6 31	26 51	5 5	3 29	0 33	7 15	1 5	8 26	0 25	11 24	0 47	20 15	1 56	14 34	0 45	14 15	1 43	20 48	11 21	11 13	11 36	21 4	1 36	5 14				
F 7	6 54	27 58	4 48	3 33	0 45	7 44	1 4	8 44	0 25	11 20	0 47	20 14	1 57	14 34	0 45	14 16	1 43	20 48	11 21	11 14	11 37	21 1	1 38	5 13				
S 8	7 17	27 41	4 18	3 34	0 58	8 13	1 2	9 1	0 24	11 16	0 48	20 14	1 57	14 35	0 45	14 16	1 43	20 47	11 21	11 16	11 38	20 59	1 40	5 13				
S 9	7 39	26 5	3 37	3 33	1 9	8 42	1 1	9 18	0 24	11 12	0 48	20 14	1 57	14 35	0 45	14 17	1 43	20 47	11 21	11 16	11 39	20 57	1 42	5 12				
M10	8 1	23 20	2 48	3 30	1 20	9 11	0 59	9 35	0 23	11 8	0 48	20 13	1 57	14 35	0 45	14 18	1 43	20 47	11 21	11 16	11 40	20 54	1 44	5 11				
T 11	8 23	19 37	1 51	3 24	1 30	9 39	0 57	9 52	0 22	11 3	0 48	20 13	1 57	14 36	0 45	14 18	1 43	20 47	11 22	11 16	11 41	20 52	1 46	5 11				
W12	8 45	15 7	0 49	3 16	1 40	10 7	0 55	10 9	0 22	10 59	0 48	20 13	1 57	14 36	0 45	14 19	1 43	20 46	11 22	11 15	11 42	20 49	1 47	5 10				
T 13	9 7	10 0	0n15	3 7	1 49	10 35	0 54	10 26	0 21	10 55	0 49	20 12	1 57	14 36	0 45	14 20	1 43	20 46	11 22	11 15	11 44	20 47	1 49	5 9				
F 14	9 29	4 28	1 20	2 55	1 57	11 3	0 52	10 42	0 20	10 51	0 49	20 12	1 57	14 36	0 45	14 20	1 43	20 46	11 23	11 16	11 45	20 44	1 51	5 9				
S 15	9 50	1n21	2 21	2 41	2 5	11 30	0 50	10 59	0 20	10 47	0 49	20 11	1 57	14 37	0 45	14 21	1 43	20 46	11 23	11 17	11 46	20 42	1 52	5 8				
S 16	10 12	7 14	3 18	2 26	2 12	11 57	0 48	11 15	0 19	10 43	0 49	20 11	1 57	14 37	0 45	14 22	1 43	20 46	11 23	11 19	11 47	20 40	1 54	5 7				
M17	10 33	12 57	4 5	2 9	2 18	12 24	0 46	11 32	0 18	10 39	0 49	20 10	1 58	14 37	0 45	14 22	1 43	20 45	11 23	11 22	11 48	20 37	1 56	5 7				
T 18	10 54	18 13	4 40	1 50	2 24	12 51	0 44	11 48	0 18	10 35	0 49	20 10	1 58	14 37	0 45	14 23	1 43	20 45	11 24	11 25	11 49	20 35	1 57	5 6				
W19	11 15	22 40	5 0	1 29	2 29	13 17	0 42	12 4	0 17	10 31	0 50	20 10	1 58	14 37	0 45	14 24	1 43	20 45	11 24	11 29	11 50	20 32	1 59	5 5				
T 20	11 35	25 56	5 3	1 7	2 34	13 43	0 40	12 20	0 17	10 28	0 50	20 9	1 58	14 38	0 45	14 24	1 43	20 45	11 24	11 32	11 51	20 30	2 0	5 5				
F 21	11 56	27 42	4 49	0 43	2 37	14 8	0 37	12 35	0 16	10 24	0 50	20 9	1 58	14 38	0 45	14 25	1 43	20 45	11 24	11 35	11 52	20 27	2 2	5 4				
S 22	12 16	27 42	4 17	0 18	2 41	14 34	0 35	12 51	0 15	10 20	0 50	20 8	1 58	14 38	0 45	14 26	1 43	20 45	11 25	11 37	11 53	20 25	2 3	5 3				
S 23	12 36	25 55	3 30	0n 8	2 43	14 59	0 33	13 7	0 15	10 16	0 50	20 8	1 58	14 38	0 45	14 26	1 42	20 45	11 25	11 38	11 55	20 22	2 5	5 2				
M24	12 56	22 31	2 29	0 36	2 46	15 23	0 31	13 22	0 14	10 13	0 51	20 7	1 58	14 38	0 45	14 27	1 42	20 45	11 25	11 38	11 56	20 20	2 6	5 2				
T 25	13 15	17 46	1 20	1 5	2 47	15 47	0 28	13 37	0 13	10 9	0 51	20 7	1 58	14 38	0 45	14 28	1 42	20 45	11 26	11 38	11 57	20 17	2 7	5 1				
W26	13 35	12 4	0 5	1 36	2 48	16 11	0 26	13 52	0 13	10 5	0 51	20 6	1 58	14 38	0 45	14 28	1 42	20 44	11 26	11 38	11 58	20 15	2 9	5 0				
T 27	13 54	5 45	1s 9	2 7	2 48	16 34	0 24	14 7	0 12	10 2	0 51	20 6	1 58	14 38	0 45	14 29	1 42	20 44	11 26	11 38	11 59	20 12	2 10	4 59				
F 28	14 13	0s48	2 19	2 40	2 48	16 57	0 22	14 22	0 11	9 58	0 51	20 5	1 58	14 38	0 45	14 30	1 42	20 44	11 27	11 39	12 0	20 10	2 11	4 59				
S 29	14 32	7 15	3 20	3 14	2 47	17 20	0 19	14 37	0 11	9 54	0 52	20 5	1 58	14 38	0 45	14 30	1 42	20 44	11 27	11 41	12 1	20 7	2 12	4 58				
S 30	14n50	13s18	4s 8	3n49	2s46	17n42	0s17	14n51	0s10	9s51	0s52	20s 4	1n58	14n38	0n45	14n31	1s42	20s44	11s27	11s44	12s 2	20s 5	2n14	4s57				

ASTRODIENST EPHEMERIS for the year 2045
geocentric

MAY 2045

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	14 37 20	11♌ 2'27	7♍.59	17♎43	22♏ 5	11♌23	6♎53	10°R28	22♏45	14♌24	3♎51	29°R 5	28♏19	7♏53	12°R39	M 1
T 2	14 41 17	12° 0'41	21°20	19°15	23°18	12° 7	7° 2	10♌24	22°45	14°26	3°51	28♏53	28°16	8° 0	12♎38	T 2
W 3	14 45 13	12°58'52	4♌24	20°49	24°32	12°51	7°12	10°21	22°45	14°28	3°52	28°41	28°13	8° 6	12°37	W 3
T 4	14 49 10	13°57'02	17°10	22°25	25°46	13°35	7°22	10°17	22°45	14°31	3°53	28°30	28°10	8°13	12°36	T 4
F 5	14 53 6	14°55'11	29°38	24° 2	27° 0	14°19	7°31	10°13	22°45	14°33	3°54	28°20	28° 6	8°20	12°35	F 5
S 6	14 57 3	15°53'17	11♌50	25°42	28°14	15° 3	7°40	10° 9	22°46	14°35	3°54	28°14	28° 3	8°26	12°35	S 6
S 7	15 0 59	16°51'23	23°50	27°24	29°28	15°47	7°49	10° 6	22°46	14°37	3°55	28° 9	28° 0	8°33	12°34	S 7
M 8	15 4 56	17°49'27	5♏42	29° 7	0♐41	16°31	7°58	10° 2	22°47	14°40	3°56	28° 7	27°57	8°39	12°34	M 8
T 9	15 8 52	18°47'29	17°30	0♌52	1°55	17°15	8° 7	9°58	22°47	14°42	3°56	28°D 7	27°54	8°46	12°34	T 9
W10	15 12 49	19°45'30	29°21	2°40	3° 9	17°58	8°16	9°54	22°48	14°44	3°57	28°R 7	27°50	8°53	12°34	W10
T 11	15 16 46	20°43'30	11♎20	4°29	4°22	18°42	8°25	9°50	22°48	14°46	3°58	28° 6	27°47	8°59	12°D34	T 11
F 12	15 20 42	21°41'29	23°31	6°20	5°36	19°26	8°33	9°46	22°49	14°49	3°58	28° 4	27°44	9° 6	12°34	F 12
S 13	15 24 39	22°39'26	6♎ 0	8°13	6°50	20° 9	8°42	9°41	22°49	14°51	3°59	28° 0	27°41	9°13	12°34	S 13
S 14	15 28 35	23°37'21	18°50	10° 8	8° 3	20°53	8°50	9°37	22°50	14°53	3°59	27°53	27°38	9°19	12°34	S 14
M15	15 32 32	24°35'16	2♌ 3	12° 5	9°17	21°36	8°58	9°33	22°51	14°55	4° 0	27°43	27°35	9°26	12°35	M15
T 16	15 36 28	25°33'09	15°38	14° 3	10°31	22°20	9° 6	9°29	22°52	14°58	4° 0	27°32	27°31	9°33	12°35	T 16
W17	15 40 25	26°31'01	29°32	16° 4	11°44	23° 3	9°14	9°24	22°53	15° 0	4° 1	27°20	27°28	9°39	12°36	W17
T 18	15 44 21	27°28'51	13♐43	18° 6	12°58	23°47	9°22	9°20	22°54	15° 2	4° 1	27° 8	27°25	9°46	12°37	T 18
F 19	15 48 18	28°26'40	28° 4	20°10	14°11	24°30	9°29	9°16	22°55	15° 4	4° 2	26°58	27°22	9°53	12°38	F 19
S 20	15 52 15	29°24'27	12♌29	22°16	15°25	25°13	9°37	9°12	22°56	15° 7	4° 2	26°51	27°19	9°59	12°39	S 20
S 21	15 56 11	0♐22'13	26°53	24°23	16°38	25°56	9°44	9° 7	22°57	15° 9	4° 2	26°46	27°16	10° 6	12°40	S 21
M22	16 0 8	1°19'57	11♌12	26°31	17°52	26°39	9°51	9° 3	22°58	15°11	4° 3	26°44	27°12	10°13	12°41	M22
T 23	16 4 4	2°17'40	25°23	28°40	19° 5	27°23	9°58	8°58	22°59	15°13	4° 3	26°44	27° 9	10°19	12°42	T 23
W24	16 8 1	3°15'20	9♎26	0♐51	20°19	28° 6	10° 5	8°54	23° 0	15°15	4° 3	26°44	27° 6	10°26	12°44	W24
T 25	16 11 57	4°12'59	23°19	3° 2	21°32	28°48	10°11	8°49	23° 2	15°17	4° 3	26°43	27° 3	10°33	12°45	T 25
F 26	16 15 54	5°10'37	7♎ 2	5°13	22°46	29°31	10°18	8°45	23° 3	15°20	4° 4	26°40	27° 0	10°39	12°47	F 26
S 27	16 19 50	6° 8'13	20°36	7°25	23°59	0♐14	10°24	8°41	23° 5	15°22	4° 4	26°34	26°56	10°46	12°49	S 27
S 28	16 23 47	7° 5'48	4♍ 0	9°37	25°12	0°57	10°31	8°36	23° 6	15°24	4° 4	26°26	26°53	10°53	12°51	S 28
M29	16 27 44	8° 3'21	17°12	11°49	26°26	1°40	10°37	8°32	23° 7	15°26	4° 4	26°16	26°50	10°59	12°53	M29
T 30	16 31 40	9° 0'53	0♌12	14° 0	27°39	2°22	10°42	8°27	23° 9	15°28	4° 4	26° 3	26°47	11° 6	12°55	T 30
W31	16 35 37	9♐58'24	12♌58	16♐10	28♐52	3♐ 5	10♎48	8♌23	23♌11	15♌30	4♎ 4	25♏51	26♏44	11♏12	12♎57	W31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	15n 8	18s36	4s42	4n25	2s44	18n 3	0s14	15n 6	0s 9	9s47	0s52	20s 3	1n59	14n38	0n45	14n32	1s42	20s44	11s27	11s48	12s 3	20s 2	2n15	4s56	
T 2	15 26	22 54	4 59	5 2	2 42	18 24	0 12	15 20	0 9	9 44	0 52	20 3	1 59	14 38	0 45	14 32	1 42	20 44	11 28	11 52	12 5	20 0	2 16	4 56	
W 3	15 44	25 56	5 0	5 40	2 39	18 45	0 10	15 34	0 8	9 41	0 52	20 2	1 59	14 38	0 44	14 33	1 42	20 44	11 28	11 56	12 6	19 57	2 17	4 55	
T 4	16 1	27 33	4 46	6 19	2 35	19 5	0 7	15 48	0 8	9 37	0 53	20 2	1 59	14 38	0 44	14 34	1 42	20 44	11 28	12 0	12 7	19 54	2 18	4 54	
F 5	16 19	27 44	4 18	6 59	2 31	19 25	0 5	16 1	0 7	9 34	0 53	20 1	1 59	14 38	0 44	14 34	1 42	20 44	11 29	12 3	12 8	19 52	2 19	4 53	
S 6	16 36	26 33	3 39	7 39	2 27	19 44	0 2	16 15	0 6	9 31	0 53	20 1	1 59	14 38	0 44	14 35	1 42	20 44	11 29	12 5	12 9	19 49	2 20	4 53	
S 7	16 52	24 9	2 51	8 20	2 22	20 2	0n 0	16 28	0 6	9 28	0 53	20 0	1 59	14 37	0 44	14 35	1 42	20 44	11 29	12 7	12 10	19 47	2 21	4 52	
M 8	17 9	20 43	1 56	9 2	2 16	20 20	0 3	16 42	0 5	9 24	0 54	19 59	1 59	14 37	0 44	14 36	1 42	20 44	11 30	12 8	12 11	19 44	2 22	4 51	
T 9	17 25	16 28	0 56	9 45	2 10	20 38	0 5	16 55	0 4	9 21	0 54	19 59	1 59	14 37	0 44	14 37	1 42	20 44	11 30	12 8	12 12	19 42	2 22	4 50	
W10	17 40	11 36	0n 7	10 28	2 3	20 55	0 8	17 8	0 4	9 18	0 54	19 58	1 59	14 37	0 44	14 37	1 42	20 44	11 30	12 8	12 13	19 39	2 23	4 49	
T 11	17 56	6 15	1 10	11 11	1 56	21 11	0 10	17 20	0 3	9 15	0 54	19 58	1 59	14 37	0 44	14 38	1 42	20 45	11 31	12 8	12 14	19 37	2 24	4 49	
F 12	18 11	0 35	2 10	11 55	1 49	21 27	0 13	17 33	0 2	9 12	0 54	19 57	1 59	14 36	0 44	14 39	1 42	20 45	11 31	12 9	12 15	19 34	2 25	4 48	
S 13	18 26	5n14	3 6	12 39	1 41	21 42	0 15	17 45	0 2	9 9	0 55	19 56	1 59	14 36	0 44	14 39	1 42	20 45	11 31	12 10	12 17	19 31	2 25	4 47	
S 14	18 41	10 59	3 54	13 23	1 32	21 56	0 18	17 57	0 1	9 6	0 55	19 56	1 59	14 36	0 44	14 40	1 42	20 45	11 32	12 12	12 18	19 29	2 26	4 46	
M15	18 55	16 25	4 31	14 8	1 24	22 10	0 20	18 9	0 0	9 4	0 55	19 55	1 59	14 35	0 44	14 41	1 42	20 45	11 32	12 16	12 19	19 26	2 26	4 45	
T 16	19 9	21 12	4 54	14 52	1 15	22 24	0 23	18 21	0n 0	9 1	0 55	19 55	1 59	14 35	0 44	14 41	1 42	20 45	11 32	12 20	12 20	19 24	2 27	4 45	
W17	19 22	24 56	5 0	15 36	1 5	22 36	0 25	18 33	0 1	8 58	0 56	19 54	1 59	14 35	0 44	14 42	1 42	20 45	11 33	12 24	12 21	19 21	2 27	4 44	
T 18	19 36	27 12	4 48	16 20	0 55	22 48	0 28	18 44	0 2	8 55	0 56	19 53	1 59	14 34	0 44	14 43	1 42	20 45	11 33	12 28	12 22	19 18	2 28	4 43	
F 19	19 49	27 43	4 18	17 3	0 45	23 0	0 30	18 56	0 2	8 53	0 56	19 53	1 59	14 34	0 44	14 43	1 42	20 46	11 33	12 31	12 23	19 16	2 28	4 42	
S 20	20 1	26 21	3 31	17 46	0 35	23 10	0 32	19 7	0 3	8 50	0 56	19 52	1 59	14 34	0 44	14 44	1 42	20 46	11 34	12 34	12 24	19 13	2 29	4 42	
S 21	20 14	23 15	2 31	18 28	0 24	23 21	0 35	19 18	0 3	8 48	0 57	19 51	1 59	14 33	0 44	14 45	1 43	20 46	11 34	12 35	12 25	19 11	2 29	4 41	
M22	20 25	18 43	1 21	19 9	0 14	23 30	0 37	19 28	0 4	8 45	0 57	19 51	1 59	14 33	0 44	14 45	1 43	20 46	11 34	12 36	12 26	19 8	2 29	4 40	
T 23	20 37	13 10	0 7	19 48	0 3	23 39	0 40	19 39	0 5	8 43	0 57	19 50	1 59	14 33	0 44	14 46	1 43	20 46	11 35	12 36	12 27	19 5	2 29	4 39	
W24	20 48	7 0	1s 7	20 26	0n 7	23 47	0 42	19 49	0 5	8 40	0 57	19 50	1 59	14 32	0 44	14 46	1 43	20 46	11 35	12 36	12 29	19 3	2 29	4 38	
T 25	20 59	0 35	2 16	21 3	0 18	23 54	0 44	19 59	0 6	8 38	0 58	19 49	1 59	14 32	0 44	14 47	1 43	20 47	11 35	12 36	12 30	19 0	2 30	4 38	
F 26	21 10	5s47	3 16	21 38	0 28	24 1	0 47	20 9	0 7	8 36	0 58	19 48	1 59	14 31	0 44	14 48	1 43	20 47	11 36	12 37	12 31	18 57	2 30	4 37	
S 27	21 20	11 49	4 4	22 10	0 38	24 7	0 49	20 19	0 7	8 34	0 58	19 48	1 59	14 31	0 44	14 48	1 43	20 47	11 36	12 39	12 32	18 55	2 30	4 36	
S 28	21 29	17 13	4 38	22 41	0 48	24 12	0 51	20 28	0 8	8 32	0 58	19 47	1 59	14 30	0 44	14 49	1 43	20 47	11 36	12 42	12 33	18 52	2 30	4 35	
M29	21 39	21 43	4 57	23 9	0 57	24 17	0 53	20 38	0 9	8 30	0 59	19 46	1 58	14 30	0 44	14 49	1 43	20 48	11 37	12 46	12 34	18 50	2 30	4 34	
T 30	21 48	25 4	5 0	23 34	1 6	24 20	0 55	20 47	0 9	8 28	0 59	19 46	1 58	14 29	0 44	14 50	1 43	20 48	11 37	12 50	12 35	18 47	2 30	4 34	
W31	21n57	27s 6	4s48	23n57	1n15	24n23	0n58	20n56	0n10	8s26	0s59	19s45	1n58	14n28	0n43	14n51	1s43	20s48	11s37	12s54	12s36	18s44	2n29	4s33	

Julian Day Number = 2468101.5, Delta T = 73.25 sec
Ecliptic obliquity = 23°26'08, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 25°22'25, Lahiri = 24°29'25

ASTRODIENST EPHEMERIS for the year 2045

geocentric

JUNE 2045

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 39 33	10 ^{II} 55'55	25 [♂] 30	18 ^{II} 19	0 [♂] 5 5	3 ^{II} 48	10 [♂] 54	8°R18	23 ^{II} 12	15 [♂] 32	4 [♂] 4	25°R39	26 [♂] 41	11 [♂] 19	13 [♂] 0	T 1
F 2	16 43 30	11°53'24	7 [♂] 49	20°26	1°19	4°30	10°59	8 [♂] 14	23°14	15°34	4°5	25°30	26°37	11°26	13°2	F 2
S 3	16 47 26	12°50'52	19°55	22°32	2°32	5°13	11°4	8°9	23°16	15°36	4°5	25°22	26°34	11°32	13°5	S 3
S 4	16 51 23	13°48'19	1 [♂] 52	24°37	3°45	5°55	11°10	8°5	23°18	15°39	4°R 5	25°17	26°31	11°39	13°7	S 4
M 5	16 55 19	14°45'46	13°42	26°39	4°58	6°38	11°14	8°1	23°19	15°41	4°5	25°15	26°28	11°46	13°10	M 5
T 6	16 59 16	15°43'11	25°30	28°39	6°11	7°20	11°19	7°56	23°21	15°43	4°4	25°D14	26°25	11°52	13°13	T 6
W 7	17 3 13	16°40'36	7 [♂] 20	0 [♂] 38	7°24	8°2	11°24	7°52	23°23	15°45	4°4	25°15	26°22	11°59	13°16	W 7
T 8	17 7 9	17°38'01	19°18	2°33	8°37	8°44	11°28	7°47	23°25	15°47	4°4	25°R15	26°18	12°6	13°19	T 8
F 9	17 11 6	18°35'24	1 [♂] 30	4°27	9°51	9°27	11°32	7°43	23°27	15°49	4°4	25°14	26°15	12°12	13°22	F 9
S 10	17 15 2	19°32'48	14°0	6°18	11°4	10°9	11°36	7°39	23°29	15°51	4°4	25°11	26°12	12°19	13°25	S 10
S 11	17 18 59	20°30'10	26°53	8°7	12°17	10°51	11°40	7°34	23°31	15°52	4°4	25°6	26°9	12°26	13°29	S 11
M12	17 22 55	21°27'33	10 [♂] 11	9°53	13°30	11°33	11°44	7°30	23°34	15°54	4°4	24°59	26°6	12°32	13°32	M12
T 13	17 26 52	22°24'54	23°56	11°37	14°43	12°15	11°47	7°26	23°36	15°56	4°3	24°51	26°2	12°39	13°36	T 13
W14	17 30 48	23°22'16	8 ^{II} 5	13°18	15°56	12°57	11°51	7°22	23°38	15°58	4°3	24°41	25°59	12°46	13°40	W14
T 15	17 34 45	24°19'36	22°34	14°57	17°9	13°39	11°54	7°18	23°40	16°0	4°3	24°32	25°56	12°52	13°43	T 15
F 16	17 38 42	25°16'56	7 [♂] 17	16°33	18°21	14°21	11°57	7°13	23°43	16°2	4°3	24°24	25°53	12°59	13°47	F 16
S 17	17 42 38	26°14'16	22°6	18°6	19°34	15°2	12°0	7°9	23°45	16°4	4°2	24°18	25°50	13°6	13°51	S 17
S 18	17 46 35	27°11'34	6 [♂] 53	19°37	20°47	15°44	12°2	7°5	23°47	16°6	4°2	24°15	25°47	13°12	13°55	S 18
M19	17 50 31	28°8'52	21°31	21°6	22°0	16°26	12°4	7°1	23°50	16°7	4°2	24°D13	25°43	13°19	13°59	M19
T 20	17 54 28	29°6'09	5 [♂] 56	22°31	23°13	17°7	12°7	6°57	23°52	16°9	4°1	24°14	25°40	13°25	14°4	T 20
W21	17 58 24	0 [♂] 3'25	20°5	23°54	24°26	17°49	12°9	6°53	23°55	16°11	4°1	24°15	25°37	13°32	14°8	W21
T 22	18 2 21	1°0'41	3 [♂] 58	25°14	25°38	18°31	12°11	6°49	23°57	16°13	4°0	24°R15	25°34	13°39	14°13	T 22
F 23	18 6 18	1°57'55	17°33	26°32	26°51	19°12	12°12	6°46	24°0	16°14	4°0	24°14	25°31	13°45	14°17	F 23
S 24	18 10 14	2°55'09	0 [♂] 54	27°47	28°4	19°53	12°14	6°42	24°3	16°16	4°0	24°11	25°28	13°52	14°22	S 24
S 25	18 14 11	3°52'23	14°0	28°58	29°17	20°35	12°15	6°38	24°5	16°18	3°59	24°5	25°24	13°59	14°26	S 25
M26	18 18 7	4°49'36	26°52	0 [♂] 7	0 [♂] 29	21°16	12°16	6°34	24°8	16°19	3°59	23°58	25°21	14°5	14°31	M26
T 27	18 22 4	5°46'48	9 [♂] 32	1°13	1°42	21°57	12°17	6°31	24°11	16°21	3°58	23°50	25°18	14°12	14°36	T 27
W28	18 26 0	6°44'00	22°0	2°16	2°54	22°39	12°17	6°27	24°14	16°23	3°57	23°42	25°15	14°19	14°41	W28
T 29	18 29 57	7°41'12	4 [♂] 17	3°15	4°7	23°20	12°18	6°24	24°16	16°24	3°57	23°34	25°12	14°25	14°46	T 29
F 30	18 33 53	8°38'24	16 [♂] 24	4 [♂] 12	5 [♂] 20	24 ^{II} 1	12 [♂] 18	6 [♂] 20	24 [♂] 19	16 [♂] 26	3 [♂] 56	23 [♂] 27	25 [♂] 8	14 [♂] 32	14 [♂] 51	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	22n 5	27s43	4s22	24n18	1n23	24n26	1n 0	21n 5	0n10	8s24	1s 0	19s44	1n58	14n28	0n43	14n51	1s43	20s48	11s38	12s58	12s37	18s42	2n29	4s32	
F 2	22 13	26 56	3 44	24 35	1 30	24 28	1 2	21 13	0 11	8 22	1 0	19 44	1 58	14 27	0 43	14 52	1 43	20 49	11 38	13 1	12 38	18 39	2 29	4 31	
S 3	22 20	24 51	2 56	24 50	1 37	24 29	1 4	21 21	0 12	8 20	1 0	19 43	1 58	14 27	0 43	14 52	1 43	20 49	11 38	13 4	12 39	18 36	2 29	4 31	
S 4	22 27	21 42	2 1	25 2	1 43	24 29	1 6	21 30	0 12	8 19	1 0	19 43	1 58	14 26	0 43	14 53	1 43	20 49	11 39	13 5	12 40	18 34	2 28	4 30	
M 5	22 34	17 41	1 1	25 11	1 48	24 28	1 8	21 38	0 13	8 17	1 1	19 42	1 58	14 25	0 43	14 53	1 43	20 50	11 39	13 6	12 42	18 31	2 28	4 29	
T 6	22 40	13 0	0n 1	25 18	1 52	24 27	1 10	21 45	0 14	8 15	1 1	19 41	1 58	14 25	0 43	14 54	1 43	20 50	11 39	13 6	12 43	18 28	2 28	4 28	
W 7	22 46	7 50	1 4	25 22	1 56	24 25	1 12	21 53	0 14	8 14	1 1	19 41	1 58	14 24	0 43	14 54	1 43	20 50	11 40	13 6	12 44	18 26	2 27	4 28	
T 8	22 52	2 19	2 5	25 24	1 59	24 23	1 14	22 0	0 15	8 13	1 1	19 40	1 58	14 23	0 43	14 55	1 43	20 51	11 40	13 6	12 45	18 23	2 27	4 27	
F 9	22 57	3n22	3 1	25 23	2 1	24 19	1 15	22 7	0 15	8 11	1 2	19 40	1 58	14 23	0 43	14 56	1 43	20 51	11 40	13 6	12 46	18 20	2 26	4 26	
S 10	23 1	9 3	3 50	25 20	2 3	24 15	1 17	22 14	0 16	8 10	1 2	19 39	1 57	14 22	0 43	14 56	1 43	20 51	11 41	13 7	12 47	18 17	2 26	4 25	
S 11	23 6	14 32	4 28	25 15	2 4	24 11	1 19	22 21	0 17	8 9	1 2	19 38	1 57	14 21	0 43	14 57	1 43	20 52	11 41	13 9	12 48	18 15	2 25	4 25	
M12	23 10	19 31	4 54	25 7	2 4	24 5	1 21	22 27	0 17	8 8	1 3	19 38	1 57	14 21	0 43	14 57	1 43	20 52	11 41	13 11	12 49	18 12	2 25	4 24	
T 13	23 13	23 39	5 4	24 58	2 3	23 59	1 22	22 33	0 18	8 6	1 3	19 37	1 57	14 20	0 43	14 58	1 43	20 53	11 42	13 14	12 50	18 9	2 24	4 23	
W14	23 16	26 31	4 56	24 47	2 1	23 52	1 24	22 39	0 19	8 5	1 3	19 37	1 57	14 19	0 43	14 58	1 43	20 53	11 42	13 18	12 51	18 7	2 23	4 22	
T 15	23 19	27 42	4 29	24 34	1 59	23 45	1 25	22 45	0 19	8 5	1 3	19 36	1 57	14 18	0 43	14 59	1 43	20 53	11 42	13 21	12 52	18 4	2 22	4 22	
F 16	23 21	26 57	3 44	24 20	1 56	23 36	1 27	22 51	0 20	8 4	1 4	19 36	1 57	14 17	0 43	14 59	1 43	20 54	11 43	13 23	12 53	18 1	2 22	4 21	
S 17	23 23	24 18	2 43	24 4	1 52	23 27	1 28	22 56	0 20	8 3	1 4	19 35	1 57	14 17	0 43	15 0	1 43	20 54	11 43	13 25	12 54	17 58	2 21	4 20	
S 18	23 24	20 2	1 32	23 47	1 48	23 18	1 29	23 1	0 21	8 2	1 4	19 34	1 57	14 16	0 43	15 0	1 43	20 55	11 43	13 26	12 56	17 56	2 20	4 19	
M19	23 25	14 33	0 15	23 29	1 43	23 8	1 31	23 6	0 22	8 2	1 5	19 34	1 56	14 15	0 43	15 1	1 43	20 55	11 44	13 27	12 57	17 53	2 19	4 19	
T 20	23 26	8 22	1s 3	23 9	1 37	22 57	1 32	23 11	0 22	8 1	1 5	19 33	1 56	14 14	0 43	15 1	1 43	20 55	11 44	13 27	12 58	17 50	2 18	4 18	
W21	23 26	1 52	2 14	22 49	1 31	22 45	1 33	23 15	0 23	8 0	1 5	19 33	1 56	14 13	0 43	15 2	1 43	20 56	11 44	13 26	12 59	17 48	2 17	4 17	
T 22	23 26	4s35	3 17	22 28	1 24	22 33	1 34	23 20	0 23	8 0	1 5	19 32	1 56	14 12	0 43	15 2	1 43	20 56	11 45	13 26	13 0	17 45	2 16	4 17	
F 23	23 25	10 41	4 7	22 6	1 16	22 20	1 35	23 24	0 24	8 0	1 6	19 32	1 56	14 12	0 43	15 2	1 43	20 57	11 45	13 27	13 1	17 42	2 15	4 16	
S 24	23 24	16 11	4 42	21 43	1 8	22 7	1 36	23 28	0 25	7 59	1 6	19 31	1 56	14 11	0 43	15 3	1 43	20 57	11 45	13 28	13 2	17 39	2 14	4 15	
S 25	23 23	20 51	5 2	21 20	0 59	21 52	1 37	23 31	0 25	7 59	1 6	19 31	1 56	14 10	0 43	15 3	1 43	20 58	11 45	13 29	13 3	17 37	2 12	4 15	
M26	23 21	24 25	5 7	20 56	0 50	21 38	1 38	23 35	0 26	7 59	1 7	19 31	1 55	14 9	0 43	15 4	1 44	20 58	11 46	13 32	13 4	17 34	2 11	4 14	
T 27	23 19	26 45	4 56	20 32	0 40	21 22	1 38	23 38	0 26	7 59	1 7	19 30	1 55	14 8	0 43	15 4	1 44	20 59	11 46	13 34	13 5	17 31	2 10	4 13	
W28	23 16	27 42	4 31	20 8	0 29	21 7	1 39	23 41	0 27	7 59	1 7	19 30	1 55	14 7	0 43	15 5	1 44	20 59	11 46	13 37	13 6	17 28	2 9	4 12	
T 29	23 13	27 16	3 54	19 43	0 18	20 50	1 39	23 44	0 28	7 59	1 8	19 30	1 55	14 6	0 43	15 5	1 44	21 0	11 47	13 40	13 7	17 25	2 7	4 12	
F 30	23n 9	25s31	3s 6	19n19	0n 7	20n33	1n40	23n46	0n28	7s59	1s 8	19s29	1n55	14n 5	0n43	15n 5	1s44	21s 0	11s47	13s42	13s 8	17s23	2n 6	4s11	

ASTRODIENST EPHEMERIS for the year 2045
geocentric

JULY 2045

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	18 37 50	9♂35'35	28♂23	5♊ 5	6♋32	24♌42	12°R18	6°R17	24♎22	16♏27	3°R56	23°R22	25♐ 5	14♑39	14♒57	S 1
S 2	18 41 47	10°32'47	10♐15	5°54	7°45	25°23	12♈18	6♉14	24°25	16°29	3♊55	23♋19	25° 2	14°45	15° 2	S 2
M 3	18 45 43	11°29'58	22° 2	6°40	8°57	26° 4	12°18	6°11	24°28	16°30	3°54	23°D18	24°59	14°52	15° 7	M 3
T 4	18 49 40	12°27'09	3♊50	7°23	10° 9	26°45	12°17	6° 7	24°31	16°32	3°54	23°19	24°56	14°59	15°13	T 4
W 5	18 53 36	13°24'21	15°40	8° 1	11°22	27°26	12°17	6° 4	24°34	16°33	3°53	23°20	24°53	15° 5	15°18	W 5
T 6	18 57 33	14°21'33	27°39	8°36	12°34	28° 7	12°16	6° 1	24°37	16°34	3°52	23°22	24°49	15°12	15°24	T 6
F 7	19 1 29	15°18'45	9♊50	9° 6	13°46	28°47	12°15	5°58	24°40	16°36	3°51	23°R23	24°46	15°18	15°30	F 7
S 8	19 5 26	16°15'57	22°18	9°32	14°59	29°28	12°14	5°55	24°43	16°37	3°51	23°23	24°43	15°25	15°36	S 8
S 9	19 9 22	17°13'10	5♋ 9	9°54	16°11	0♌ 9	12°12	5°53	24°46	16°39	3°50	23°21	24°40	15°32	15°42	S 9
M10	19 13 19	18°10'23	18°25	10°12	17°23	0°50	12°11	5°50	24°49	16°40	3°49	23°19	24°37	15°38	15°48	M10
T 11	19 17 16	19° 7'37	2♌ 9	10°25	18°35	1°30	12° 9	5°47	24°53	16°41	3°48	23°14	24°34	15°45	15°54	T 11
W12	19 21 12	20° 4'51	16°21	10°33	19°47	2°11	12° 7	5°45	24°56	16°42	3°47	23°10	24°30	15°52	16° 0	W12
T 13	19 25 9	21° 2'06	0♌57	10°R36	21° 0	2°51	12° 4	5°42	24°59	16°44	3°46	23° 5	24°27	15°58	16° 6	T 13
F 14	19 29 5	21°59'21	15°50	10°35	22°12	3°32	12° 2	5°40	25° 2	16°45	3°46	23° 1	24°24	16° 5	16°12	F 14
S 15	19 33 2	22°56'36	0♎55	10°29	23°24	4°12	11°59	5°38	25° 6	16°46	3°45	22°58	24°21	16°12	16°18	S 15
S 16	19 36 58	23°53'51	16° 0	10°18	24°36	4°53	11°57	5°35	25° 9	16°47	3°44	22°D57	24°18	16°18	16°25	S 16
M17	19 40 55	24°51'07	0♐57	10° 3	25°48	5°33	11°54	5°33	25°12	16°48	3°43	22°57	24°14	16°25	16°31	M17
T 18	19 44 52	25°48'23	15°40	9°43	27° 0	6°13	11°51	5°31	25°16	16°49	3°42	22°58	24°11	16°32	16°38	T 18
W19	19 48 48	26°45'38	0♌ 3	9°18	28°12	6°53	11°47	5°29	25°19	16°50	3°41	22°59	24° 8	16°38	16°44	W19
T 20	19 52 45	27°42'54	14° 4	8°50	29°23	7°34	11°44	5°27	25°22	16°51	3°40	23° 1	24° 5	16°45	16°51	T 20
F 21	19 56 41	28°40'11	27°42	8°18	0♐35	8°14	11°40	5°25	25°26	16°52	3°39	23°R 1	24° 2	16°52	16°58	F 21
S 22	20 0 38	29°37'27	10♌58	7°42	1°47	8°54	11°36	5°24	25°29	16°53	3°38	23° 1	23°59	16°58	17° 5	S 22
S 23	20 4 34	0♎34'44	23°55	7° 4	2°59	9°34	11°32	5°22	25°33	16°54	3°37	22°59	23°55	17° 5	17°11	S 23
M24	20 8 31	1°32'01	6♊36	6°24	4°10	10°14	11°28	5°21	25°36	16°55	3°36	22°57	23°52	17°11	17°18	M24
T 25	20 12 27	2°29'19	19° 1	5°42	5°22	10°54	11°23	5°19	25°40	16°56	3°35	22°54	23°49	17°18	17°25	T 25
W26	20 16 24	3°26'37	1♌15	4°59	6°34	11°34	11°19	5°18	25°43	16°57	3°34	22°51	23°46	17°25	17°32	W26
T 27	20 20 21	4°23'55	13°20	4°16	7°45	12°14	11°14	5°17	25°47	16°57	3°33	22°48	23°43	17°31	17°39	T 27
F 28	20 24 17	5°21'14	25°17	3°34	8°57	12°53	11° 9	5°15	25°50	16°58	3°32	22°46	23°40	17°38	17°47	F 28
S 29	20 28 14	6°18'34	7♋ 8	2°53	10° 8	13°33	11° 4	5°14	25°54	16°59	3°30	22°44	23°36	17°45	17°54	S 29
S 30	20 32 10	7°15'54	18°56	2°14	11°20	14°13	10°59	5°13	25°58	17° 0	3°29	22°D44	23°33	17°51	18° 1	S 30
M31	20 36 7	8♎13'16	0♈44	1♎39	12♐31	14♌53	10♈54	5♊12	26♎ 1	17♏ 0	3♋28	22♐44	23♐30	17♐58	18♐ 8	M31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈			
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat		
S 1	23n 5	22s37	2s11	18n55	0s 5	20n15	1n40	23n49	0n29	8s 0	1s 8	19s28	1n55	14n 4	0n43	15n 6	1s44	21s 1	11s47	13s44	13s 9	17s20	2n 5	4s11
S 2	23 1	18 48	1 10	18 31	0 18	19 57	1 41	23 51	0 29	8 0	1 8	19 28	1 54	14 3	0 43	15 6	1 44	21 1	11 48	13 45	13 10	17 17	2 3	4 10
M 3	22 56	14 16	0 7	18 7	0 30	19 39	1 41	23 53	0 30	8 0	1 9	19 28	1 54	14 2	0 43	15 7	1 44	21 2	11 48	13 45	13 12	17 14	2 2	4 9
T 4	22 51	9 13	0n57	17 43	0 44	19 19	1 41	23 54	0 31	8 1	1 9	19 27	1 54	14 1	0 42	15 7	1 44	21 2	11 48	13 45	13 13	17 12	2 0	4 9
W 5	22 46	3 49	1 59	17 20	0 57	19 0	1 42	23 56	0 31	8 1	1 9	19 27	1 54	14 0	0 42	15 7	1 44	21 3	11 48	13 44	13 14	17 9	1 59	4 8
T 6	22 40	1n45	2 56	16 58	1 11	18 39	1 42	23 57	0 32	8 2	1 10	19 27	1 54	13 59	0 42	15 8	1 44	21 3	11 49	13 44	13 15	17 6	1 57	4 7
F 7	22 33	7 22	3 47	16 36	1 26	18 19	1 42	23 58	0 32	8 2	1 10	19 26	1 53	13 58	0 42	15 8	1 44	21 4	11 49	13 43	13 16	17 3	1 55	4 7
S 8	22 27	12 49	4 28	16 15	1 40	17 57	1 41	23 59	0 33	8 3	1 10	19 26	1 53	13 57	0 42	15 8	1 44	21 4	11 49	13 43	13 17	17 0	1 54	4 6
S 9	22 20	17 53	4 57	15 55	1 55	17 36	1 41	24 0	0 33	8 4	1 10	19 26	1 53	13 56	0 42	15 9	1 44	21 5	11 50	13 44	13 18	16 58	1 52	4 5
M10	22 12	22 17	5 11	15 36	2 10	17 14	1 41	24 0	0 34	8 5	1 11	19 25	1 53	13 55	0 42	15 9	1 44	21 5	11 50	13 45	13 19	16 55	1 50	4 5
T 11	22 4	25 37	5 8	15 18	2 25	16 51	1 41	24 0	0 35	8 6	1 11	19 25	1 53	13 54	0 42	15 9	1 44	21 6	11 50	13 46	13 20	16 52	1 49	4 4
W12	21 56	27 30	4 47	15 2	2 39	16 28	1 40	24 0	0 35	8 7	1 11	19 25	1 52	13 52	0 42	15 10	1 44	21 7	11 50	13 48	13 21	16 49	1 47	4 4
T 13	21 47	27 33	4 7	14 47	2 54	16 4	1 40	24 0	0 36	8 8	1 12	19 25	1 52	13 51	0 42	15 10	1 44	21 7	11 51	13 49	13 22	16 46	1 45	4 3
F 14	21 38	25 38	3 9	14 33	3 9	15 41	1 39	24 0	0 36	8 9	1 12	19 24	1 52	13 50	0 42	15 10	1 44	21 8	11 51	13 51	13 23	16 44	1 43	4 2
S 15	21 29	21 52	1 58	14 21	3 23	15 16	1 39	23 59	0 37	8 10	1 12	19 24	1 52	13 49	0 42	15 10	1 44	21 8	11 51	13 51	13 24	16 41	1 41	4 2
S 16	21 19	16 39	0 38	14 11	3 36	14 52	1 38	23 58	0 37	8 12	1 12	19 24	1 52	13 48	0 42	15 11	1 44	21 9	11 51	13 52	13 25	16 38	1 39	4 1
M17	21 9	10 27	0s44	14 2	3 49	14 27	1 37	23 57	0 38	8 13	1 13	19 24	1 51	13 47	0 42	15 11	1 45	21 9	11 52	13 52	13 26	16 35	1 37	4 1
T 18	20 59	3 47	2 2	13 56	4 2	14 1	1 36	23 56	0 39	8 15	1 13	19 24	1 51	13 46	0 42	15 11	1 45	21 10	11 52	13 52	13 27	16 32	1 35	4 0
W19	20 48	2s56	3 10	13 51	4 13	13 35	1 35	23 54	0 39	8 16	1 13	19 24	1 51	13 45	0 42	15 11	1 45	21 11	11 52	13 51	13 28	16 29	1 33	4 0
T 20	20 37	9 19	4 5	13 48	4 24	13 9	1 34	23 53	0 40	8 18	1 14	19 23	1 51	13 43	0 42	15 12	1 45	21 11	11 52	13 51	13 30	16 27	1 31	3 59
F 21	20 25	15 5	4 45	13 47	4 33	12 43	1 33	23 51	0 40	8 19	1 14	19 23	1 51	13 42	0 42	15 12	1 45	21 12	11 52	13 51	13 31	16 24	1 29	3 58
S 22	20 14	19 59	5 8	13 48	4 41	12 16	1 32	23 49	0 41	8 21	1 14	19 23	1 50	13 41	0 42	15 12	1 45	21 12	11 53	13 51	13 32	16 21	1 27	3 58
S 23	20 1	23 50	5 15	13 51	4 48	11 49	1 31	23 47	0 41	8 23	1 14	19 23	1 50	13 40	0 42	15 12	1 45	21 13	11 53	13 51	13 33	16 18	1 25	3 57
M24	19 49	26 26	5 6	13 56	4 53	11 22	1 29	23 44	0 42	8 25	1 15	19 23	1 50	13 39	0 42	15 13	1 45	21 13	11 53	13 52	13 34	16 15	1 23	3 56
T 25	19 36	27 41	4 43	14 3	4 57	10 54	1 28	23 42	0 43	8 27	1 15	19 23	1 50	13 38	0 42	15 13	1 45	21 14	11 53	13 53	13 35	16 12	1 20	3 57
W26	19 23	27 33	4 7	14 11	4 58	10 26	1 26	23 39	0 43	8 29	1 15	19 23	1 49	13 36	0 42	15 13	1 45	21 15	11 54	13 54	13 36	16 9	1 18	3 56
T 27	19 9	26 6	3 21	14 21	4 58	9 58	1 25	23 36	0 44	8 31	1 15	19 23	1 49	13 35	0 42	15 13	1 45	21 15	11 54	13 55	13 37	16 7	1 16	3 55
F 28	18 56	23 28	2 26	14 33	4 57	9 30	1 23	23 33	0 44	8 33	1 16	19 23	1 49	13 34	0 42	15 13	1 45	21 16	11 54	13 56	13 38	16 4	1 14	3 55
S 29	18 42	19 52	1 25	14 45	4 53	9 1	1 21	23 29	0 45	8 35	1 16	19 23	1 49	13 33	0 42	15 13	1 45	21 16	11 54	13 56	13 39	16 1	1 11	3 54
S 30	18 27	15 29	0 21	14 59	4 48	8 32	1 19	23 26	0 45	8 37	1 16	19 23	1 49	13 31	0 42	15 14	1 45	21 17	11 54	13 56	13 40	15 58	1 9	3 54
M31	18n12	10s31	0n44	15n13	4s41	8n 3	1n17	23n22	0n46	8s39	1s16	19s23	1n48	13n30	0n42	15n14	1s45	21s18	11s54	13s56	13s41	15s55	1n 7	3s53

Julian Day Number = 2468162.5, Delta T = 73.30 sec
Ecliptic obliquity = 23°26'07, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 25°22'33, Lahiri = 24°29'34

ASTRODIENST EPHEMERIS for the year 2045
geocentric

AUGUST 2045

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	20 40 3	9♏10'38	12♋33	1°R 7	13♎42	15♊32	10°R48	5°R12	26♏5	17♌1	3°R27	22♎44	23♎27	18♎5	18♎16	T 1
W 2	20 44 0	10° 8'01	24°27	0♏39	14°53	16°12	10♋43	5♎11	26° 8	17° 2	3♋26	22°46	23°24	18°11	18°23	W 2
T 3	20 47 56	11° 5'25	6♎28	0°16	16° 5	16°51	10°37	5°10	26°12	17° 2	3°25	22°47	23°20	18°18	18°31	T 3
F 4	20 51 53	12° 2'50	18°42	29♊58	17°16	17°31	10°31	5°10	26°16	17° 3	3°24	22°48	23°17	18°25	18°38	F 4
S 5	20 55 49	13° 0'16	1♋11	29°47	18°27	18°10	10°25	5°10	26°19	17° 3	3°22	22°48	23°14	18°31	18°46	S 5
S 6	20 59 46	13°57'44	13°59	29°D41	19°38	18°50	10°19	5° 9	26°23	17° 4	3°21	22°R48	23°11	18°38	18°53	S 6
M 7	21 3 43	14°55'13	27°11	29°42	20°49	19°29	10°12	5° 9	26°27	17° 4	3°20	22°48	23° 8	18°45	19° 1	M 7
T 8	21 7 39	15°52'44	10♎48	29°49	22° 0	20° 8	10° 6	5° 9	26°30	17° 5	3°19	22°48	23° 5	18°51	19° 9	T 8
W 9	21 11 36	16°50'15	24°51	0♏3	23°11	20°48	9°59	5°D 9	26°34	17° 5	3°18	22°47	23° 1	18°58	19°16	W 9
T 10	21 15 32	17°47'48	9♊20	0°24	24°22	21°27	9°52	5° 9	26°38	17° 5	3°16	22°47	22°58	19° 4	19°24	T 10
F 11	21 19 29	18°45'23	24°10	0°51	25°32	22° 6	9°46	5° 9	26°41	17° 6	3°15	22°46	22°55	19°11	19°32	F 11
S 12	21 23 25	19°42'58	9♏15	1°26	26°43	22°45	9°39	5° 9	26°45	17° 6	3°14	22°46	22°52	19°18	19°40	S 12
S 13	21 27 22	20°40'35	24°26	2° 7	27°54	23°24	9°32	5°10	26°49	17° 6	3°13	22°D46	22°49	19°24	19°48	S 13
M14	21 31 19	21°38'13	9♎35	2°56	29° 4	24° 3	9°25	5°10	26°53	17° 6	3°11	22°46	22°46	19°31	19°56	M14
T 15	21 35 15	22°35'52	24°31	3°50	0♎15	24°43	9°17	5°11	26°56	17° 6	3°10	22°R46	22°42	19°38	20° 4	T 15
W16	21 39 12	23°33'32	9♎8	4°51	1°25	25°21	9°10	5°12	27° 0	17° 7	3° 9	22°46	22°39	19°44	20°12	W16
T 17	21 43 8	24°31'13	23°20	5°59	2°36	26° 0	9° 3	5°12	27° 4	17° 7	3° 8	22°46	22°36	19°51	20°20	T 17
F 18	21 47 5	25°28'55	7♎1	7°12	3°46	26°39	8°55	5°13	27° 8	17° 7	3° 6	22°46	22°33	19°58	20°28	F 18
S 19	21 51 1	26°26'38	20°27	8°31	4°56	27°18	8°48	5°14	27°11	17° 7	3° 5	22°D45	22°30	20° 4	20°36	S 19
S 20	21 54 58	27°24'22	3♎23	9°55	6° 7	27°57	8°40	5°15	27°15	17°R 7	3° 4	22°45	22°26	20°11	20°44	S 20
M21	21 58 54	28°22'08	15°59	11°25	7°17	28°36	8°33	5°16	27°19	17° 7	3° 2	22°46	22°23	20°18	20°52	M21
T 22	22 2 51	29°19'54	28°17	12°59	8°27	29°14	8°25	5°18	27°23	17° 7	3° 1	22°46	22°20	20°24	21° 1	T 22
W23	22 6 48	0♎17'42	10♊23	14°37	9°37	29°53	8°17	5°19	27°26	17° 7	3° 0	22°47	22°17	20°31	21° 9	W23
T 24	22 10 44	1°15'30	22°19	16°19	10°47	0♏32	8° 9	5°20	27°30	17° 7	2°59	22°48	22°14	20°37	21°17	T 24
F 25	22 14 41	2°13'21	4♎10	18° 4	11°56	1°10	8° 2	5°22	27°34	17° 6	2°57	22°49	22°11	20°44	21°25	F 25
S 26	22 18 37	3°11'12	15°57	19°53	13° 6	1°49	7°54	5°24	27°38	17° 6	2°56	22°49	22° 7	20°51	21°34	S 26
S 27	22 22 34	4° 9'05	27°45	21°44	14°16	2°27	7°46	5°25	27°41	17° 6	2°55	22°R49	22° 4	20°57	21°42	S 27
M28	22 26 30	5° 6'59	9♋36	23°37	15°25	3° 6	7°38	5°27	27°45	17° 6	2°53	22°49	22° 1	21° 4	21°50	M28
T 29	22 30 27	6° 4'55	21°31	25°32	16°35	3°44	7°30	5°29	27°49	17° 6	2°52	22°47	21°58	21°11	21°59	T 29
W30	22 34 23	7° 2'52	3♎33	27°27	17°44	4°23	7°22	5°31	27°52	17° 5	2°51	22°46	21°55	21°17	22° 7	W30
T 31	22 38 20	8♎0'51	15♎43	29♏24	18♎54	5♏1	7♋14	5♎33	27♏56	17♌5	2♋50	22♎43	21♎52	21♎24	22♎16	T 31

Day	☉	☾		♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊	♋	♌	♍	♎	♏			
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat			
T 1	17n57	5s11	1n48	15n28	4s33	7n34	1n15	23n18	0n46	8s42	1s17	19s23	1n48	13n29	0n42	15n14	1s45	21s18	11s55	13s56	13s42	15s52	1n 4	3s53
W 2	17 42	0n21	2 47	15 44	4 23	7 5	1 13	23 14	0 47	8 44	1 17	19 23	1 48	13 28	0 42	15 14	1 45	21 19	11 55	13 56	13 43	15 49	1 2	3 52
T 3	17 27	5 56	3 40	16 0	4 11	6 35	1 11	23 9	0 47	8 47	1 17	19 24	1 48	13 27	0 42	15 14	1 46	21 19	11 55	13 55	13 44	15 46	0 59	3 52
F 4	17 11	11 23	4 23	16 15	3 59	6 5	1 9	23 5	0 48	8 49	1 17	19 24	1 47	13 25	0 42	15 14	1 46	21 19	11 55	13 55	13 45	15 44	0 54	3 51
S 5	16 55	16 29	4 55	16 31	3 45	5 35	1 6	23 0	0 49	8 51	1 18	19 24	1 47	13 24	0 42	15 14	1 46	21 20	11 55	13 55	13 46	15 41	0 57	3 51
S 6	16 38	21 1	5 14	16 46	3 31	5 5	1 4	22 55	0 49	8 54	1 18	19 24	1 47	13 23	0 42	15 14	1 46	21 21	11 55	13 55	13 47	15 38	0 52	3 50
M 7	16 21	24 39	5 17	17 1	3 16	4 35	1 2	22 50	0 50	8 57	1 18	19 24	1 47	13 21	0 42	15 14	1 46	21 22	11 56	13 55	13 48	15 35	0 49	3 50
T 8	16 4	27 2	5 2	17 15	3 0	4 5	0 59	22 45	0 50	8 59	1 18	19 24	1 47	13 20	0 42	15 14	1 46	21 22	11 56	13 55	13 49	15 32	0 47	3 49
W 9	15 47	27 49	4 29	17 28	2 44	3 34	0 56	22 40	0 51	9 2	1 18	19 25	1 46	13 19	0 42	15 14	1 46	21 23	11 56	13 55	13 50	15 29	0 44	3 49
T 10	15 30	26 45	3 39	17 40	2 27	3 4	0 54	22 34	0 51	9 5	1 19	19 25	1 46	13 18	0 42	15 14	1 46	21 23	11 56	13 55	13 51	15 26	0 41	3 48
F 11	15 12	23 47	2 32	17 50	2 11	2 33	0 51	22 28	0 52	9 7	1 19	19 25	1 46	13 16	0 42	15 14	1 46	21 24	11 56	13 55	13 53	15 23	0 39	3 48
S 12	14 54	19 8	1 14	17 59	1 54	2 2	0 48	22 22	0 52	9 10	1 19	19 25	1 46	13 15	0 42	15 15	1 46	21 25	11 56	13 55	13 54	15 20	0 36	3 48
S 13	14 36	13 14	0s 9	18 6	1 37	1 32	0 45	22 16	0 53	9 13	1 19	19 26	1 45	13 14	0 42	15 15	1 46	21 25	11 56	13 56	13 55	15 17	0 33	3 47
M14	14 17	6 33	1 32	18 12	1 21	1 1	0 42	22 10	0 53	9 16	1 19	19 26	1 45	13 13	0 42	15 15	1 46	21 26	11 56	13 55	13 56	15 14	0 31	3 47
T 15	13 59	0s23	2 48	18 15	1 4	0 30	0 39	22 4	0 54	9 19	1 19	19 26	1 45	13 11	0 42	15 15	1 46	21 26	11 57	13 55	13 57	15 12	0 28	3 46
W16	13 40	7 9	3 50	18 16	0 49	0s 1	0 36	21 57	0 54	9 22	1 20	19 27	1 45	13 10	0 42	15 15	1 46	21 27	11 57	13 55	13 58	15 9	0 25	3 46
T 17	13 21	13 21	4 37	18 14	0 33	0 32	0 33	21 50	0 55	9 25	1 20	19 27	1 44	13 9	0 42	15 14	1 46	21 27	11 57	13 56	13 59	15 6	0 23	3 45
F 18	13 1	18 42	5 6	18 11	0 18	1 3	0 30	21 44	0 55	9 28	1 20	19 28	1 44	13 7	0 42	15 14	1 46	21 28	11 57	13 56	14 0	15 3	0 20	3 45
S 19	12 42	22 57	5 17	18 4	0 4	1 34	0 26	21 37	0 56	9 30	1 20	19 28	1 44	13 6	0 42	15 14	1 46	21 29	11 57	13 56	14 1	15 0	0 17	3 45
S 20	12 22	25 56	5 12	17 55	0n10	2 4	0 23	21 29	0 56	9 33	1 20	19 28	1 44	13 5	0 42	15 14	1 47	21 29	11 57	13 56	14 2	14 57	0 14	3 44
M21	12 2	27 32	4 52	17 43	0 22	2 35	0 20	21 22	0 57	9 36	1 20	19 29	1 43	13 4	0 42	15 14	1 47	21 30	11 57	13 56	14 3	14 54	0 11	3 44
T 22	11 42	27 44	4 19	17 28	0 34	3 6	0 16	21 15	0 57	9 39	1 21	19 29	1 43	13 2	0 42	15 14	1 47	21 30	11 57	13 55	14 4	14 51	0 8	3 43
W23	11 22	26 36	3 35	17 10	0 46	3 37	0 13	21 7	0 58	9 43	1 21	19 30	1 43	13 1	0 42	15 14	1 47	21 31	11 57	13 55	14 5	14 48	0 5	3 43
T 24	11 2	24 14	2 41	16 50	0 56	4 8	0 9	20 59	0 58	9 46	1 21	19 30	1 43	13 0	0 42	15 14	1 47	21 31	11 57	13 55	14 6	14 45	0 3	3 43
F 25	10 41	20 52	1 42	16 26	1 5	4 38	0 5	20 51	0 59	9 49	1 21	19 31	1 43	12 58	0 42	15 14	1 47	21 32	11 57	13 55	14 7	14 42	0s 0	3 42
S 26	10 20	16 39	0 38	16 0	1 13	5 9	0 2	20 43	0 59	9 52	1 21	19 31	1 42	12 57	0 42	15 14	1 47	21 32	11 57	13 54	14 8	14 39	0 3	3 42
S 27	9 59	11 49	0n27	15 32	1 21	5 39	0s 2	20 35	1 0	9 55	1 21	19 32	1 42	12 56	0 42	15 14	1 47	21 33	11 57	13 54	14 9	14 36	0 6	3 42
M28	9 38	6 33	1 32	15 1	1 27	6 10	0 6	20 27	1 0	9 58	1 21	19 32	1 42	12 55	0 42	15 14	1 47	21 33	11 57	13 55	14 10	14 33	0 9	3 41
T 29	9 17	1 2	2 32	14 28	1 33	6 40	0 10	20 18	1 1	10 1	1 21	19 33	1 42	12 53	0 42	15 13	1 47	21 34	11 58	13 55	14 11	14 30	0 12	3 41
W30	8 55	4n34	3 27	13 52	1 37	7 10	0 14	20 9	1 1	10 4	1 21	19 33	1 41	12 52	0 42	15 13	1 47	21 34	11 58	13 56	14 12	14 27	0 15	3 41
T 31	8n34	10n 4	4n13	13n15	1n41	7s40	0s17	20n 1	1n 2	10s 7	1s22	19s34	1n41	12n51	0n42	15n13	1s47	21s35	11s58	13s56	14s13	14s24	0s18	3s40

Julian Day Number = 2468193.5, Delta T = 73.32 sec
Ecliptic obliquity = 23°26'07, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 25°22'37, Lahiri = 24°29'38

ASTRODIENST EPHEMERIS for the year 2045
geocentric

SEPTEMBER 2045

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 42 16	8♍58'52	28♍5	1♍22	20♍3	5♍39	7♍6	5♍35	28♍0	17♍5	2♍48	22♍R41	21♍48	21♍31	22♍24	F 1
S 2	22 46 13	9°56'55	10♌40	3°19	21°12	6°17	6♌58	5°38	28°4	17♌4	2♌47	22♌39	21°45	21°37	22°33	S 2
S 3	22 50 10	10°55'00	23°31	5°17	22°21	6°56	6°51	5°40	28°7	17°4	2°46	22°37	21°42	21°44	22°41	S 3
M 4	22 54 6	11°53'06	6♊41	7°14	23°30	7°34	6°43	5°42	28°11	17°3	2°44	22°D37	21°39	21°51	22°50	M 4
T 5	22 58 3	12°51'15	20°11	9°11	24°39	8°12	6°35	5°45	28°15	17°3	2°43	22°37	21°36	21°57	22°58	T 5
W 6	23 1 59	13°49'26	4♌3	11°8	25°48	8°50	6°27	5°48	28°18	17°2	2°42	22°37	21°32	22°4	23°7	W 6
T 7	23 5 56	14°47'39	18°17	13°4	26°57	9°28	6°19	5°50	28°22	17°2	2°41	22°39	21°29	22°10	23°15	T 7
F 8	23 9 52	15°45'54	2♌52	14°59	28°5	10°6	6°12	5°53	28°26	17°1	2°39	22°40	21°26	22°17	23°24	F 8
S 9	23 13 49	16°44'10	17°43	16°53	29°14	10°44	6°4	5°56	28°29	17°0	2°38	22°R41	21°23	22°24	23°33	S 9
S 10	23 17 46	17°42'29	2♍45	18°46	0♍22	11°22	5°56	5°59	28°33	17°0	2°37	22°41	21°20	22°30	23°41	S 10
M11	23 21 42	18°40'49	17°49	20°38	1°30	12°0	5°49	6°2	28°36	16°59	2°36	22°39	21°17	22°37	23°50	M11
T 12	23 25 39	19°39'11	2♌47	22°29	2°39	12°37	5°41	6°5	28°40	16°58	2°35	22°36	21°13	22°44	23°58	T 12
W13	23 29 35	20°37'35	17°29	24°19	3°47	13°15	5°34	6°9	28°43	16°58	2°33	22°33	21°10	22°50	24°7	W13
T 14	23 33 32	21°36'01	1♍49	26°8	4°55	13°53	5°27	6°12	28°47	16°57	2°32	22°28	21°7	22°57	24°16	T 14
F 15	23 37 28	22°34'28	15°44	27°56	6°2	14°31	5°19	6°15	28°51	16°56	2°31	22°24	21°4	23°4	24°24	F 15
S 16	23 41 25	23°32'57	29°10	29°43	7°10	15°8	5°12	6°19	28°54	16°55	2°30	22°21	21°1	23°10	24°33	S 16
S 17	23 45 21	24°31'28	12♌10	1♌29	8°18	15°46	5°5	6°22	28°57	16°54	2°29	22°19	20°57	23°17	24°42	S 17
M18	23 49 18	25°30'00	24°47	3°13	9°25	16°23	4°58	6°26	29°1	16°53	2°27	22°D18	20°54	23°24	24°50	M18
T 19	23 53 14	26°28'34	7♌3	4°57	10°33	17°1	4°51	6°30	29°4	16°53	2°26	22°19	20°51	23°30	24°59	T 19
W20	23 57 11	27°27'10	19°7	6°39	11°40	17°38	4°45	6°34	29°8	16°52	2°25	22°20	20°48	23°37	25°8	W20
T 21	0 1 8	28°25'47	1♌0	8°21	12°47	18°16	4°38	6°38	29°11	16°51	2°24	22°22	20°45	23°44	25°16	T 21
F 22	0 5 4	29°24'26	12°48	10°2	13°54	18°53	4°31	6°42	29°15	16°50	2°23	22°23	20°42	23°50	25°25	F 22
S 23	0 9 1	0♌23'07	24°35	11°41	15°1	19°30	4°25	6°46	29°18	16°49	2°22	22°R24	20°38	23°57	25°34	S 23
S 24	0 12 57	1°21'49	6♌25	13°20	16°7	20°7	4°19	6°50	29°21	16°48	2°21	22°23	20°35	24°3	25°42	S 24
M25	0 16 54	2°20'33	18°21	14°57	17°14	20°45	4°13	6°54	29°25	16°46	2°19	22°20	20°32	24°10	25°51	M25
T 26	0 20 50	3°19'19	0♍26	16°34	18°20	21°22	4°7	6°58	29°28	16°45	2°18	22°15	20°29	24°17	25°59	T 26
W27	0 24 47	4°18'07	12°40	18°10	19°26	21°59	4°1	7°3	29°31	16°44	2°17	22°8	20°26	24°23	26°8	W27
T 28	0 28 43	5°16'58	25°6	19°45	20°32	22°36	3°55	7°7	29°34	16°43	2°16	22°1	20°23	24°30	26°17	T 28
F 29	0 32 40	6°15'50	7♌43	21°18	21°38	23°13	3°50	7°12	29°38	16°42	2°15	21°53	20°19	24°37	26°25	F 29
S 30	0 36 37	7♌14'44	20♌33	22♌51	22♌44	23♌50	3♌44	7♌16	29♌41	16♌41	2♌14	21♌45	20♌16	24♌43	26♌34	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	8n12	15n15	4n47	12n36	1n43	8s10	0s21	19n52	1n2	10s10	1s22	19s35	1n41	12n50	0n42	15n13	1s47	21s35	11s58	13s57	14s14	14s21	0s21	3s40			
S 2	7 50	19 54	5 9	11 55	1 45	8 40	0 25	19 43	1 3	10 13	1 22	19 35	1 41	12 48	0 42	15 13	1 47	21 36	11 58	13 58	14 15	14 18	0 24	3 40			
S 3	7 28	23 44	5 16	11 13	1 47	9 9	0 29	19 34	1 3	10 16	1 22	19 36	1 41	12 47	0 42	15 13	1 47	21 36	11 58	13 58	14 16	14 15	0 27	3 39			
M 4	7 6	26 27	5 6	10 30	1 47	9 39	0 34	19 24	1 4	10 19	1 22	19 36	1 40	12 46	0 42	15 12	1 47	21 37	11 58	13 59	14 17	14 12	0 30	3 39			
T 5	6 44	27 44	4 40	9 46	1 47	10 8	0 38	19 15	1 4	10 22	1 22	19 37	1 40	12 45	0 42	15 12	1 47	21 37	11 58	13 59	14 18	14 9	0 34	3 39			
W 6	6 22	27 19	3 57	9 1	1 46	10 37	0 42	19 6	1 5	10 25	1 22	19 38	1 40	12 43	0 42	15 12	1 47	21 38	11 58	13 58	14 19	14 6	0 37	3 38			
T 7	5 59	25 8	2 58	8 15	1 44	11 6	0 46	18 56	1 5	10 28	1 22	19 38	1 40	12 42	0 42	15 12	1 48	21 38	11 58	13 58	14 20	14 3	0 40	3 38			
F 8	5 37	21 15	1 47	7 29	1 42	11 34	0 50	18 46	1 6	10 30	1 22	19 39	1 39	12 41	0 42	15 12	1 48	21 39	11 58	13 57	14 21	14 1	0 43	3 38			
S 9	5 14	15 57	0 27	6 42	1 39	12 3	0 54	18 36	1 6	10 33	1 22	19 40	1 39	12 40	0 42	15 11	1 48	21 39	11 58	13 57	14 22	13 58	0 46	3 38			
S 10	4 51	9 38	0s55	5 55	1 36	12 31	0 59	18 26	1 7	10 36	1 22	19 41	1 39	12 38	0 42	15 11	1 48	21 39	11 57	13 57	14 23	13 55	0 49	3 37			
M11	4 29	2 45	2 14	5 8	1 32	12 59	1 3	18 16	1 7	10 39	1 22	19 41	1 39	12 37	0 42	15 11	1 48	21 40	11 57	13 58	14 24	13 52	0 52	3 37			
T 12	4 6	4s12	3 23	4 20	1 28	13 26	1 7	18 6	1 8	10 42	1 22	19 42	1 39	12 36	0 42	15 11	1 48	21 40	11 57	13 59	14 25	13 49	0 55	3 37			
W13	3 43	10 49	4 17	3 32	1 24	13 54	1 11	17 56	1 8	10 44	1 22	19 43	1 38	12 35	0 42	15 10	1 48	21 41	11 57	14 0	14 26	13 46	0 59	3 36			
T 14	3 20	16 41	4 53	2 45	1 19	14 21	1 16	17 45	1 9	10 47	1 22	19 44	1 38	12 33	0 42	15 10	1 48	21 41	11 57	14 1	14 27	13 43	1 2	3 36			
F 15	2 57	21 30	5 11	1 57	1 14	14 47	1 20	17 35	1 9	10 50	1 22	19 44	1 38	12 32	0 42	15 10	1 48	21 42	11 57	14 3	14 28	13 40	1 5	3 36			
S 16	2 34	25 2	5 11	1 10	1 9	15 14	1 24	17 24	1 10	10 52	1 22	19 45	1 38	12 31	0 42	15 10	1 48	21 42	11 57	14 4	14 29	13 37	1 8	3 36			
S 17	2 10	27 7	4 55	0 23	1 3	15 40	1 29	17 14	1 10	10 55	1 22	19 46	1 38	12 30	0 42	15 9	1 48	21 42	11 57	14 4	14 30	13 33	1 11	3 35			
M18	1 47	27 44	4 25	0s24	0 57	16 6	1 33	17 3	1 11	10 57	1 22	19 47	1 37	12 29	0 42	15 9	1 48	21 43	11 57	14 5	14 31	13 30	1 15	3 35			
T 19	1 24	26 57	3 43	1 11	0 51	16 31	1 37	16 52	1 11	11 0	1 22	19 48	1 37	12 27	0 42	15 9	1 48	21 43	11 57	14 4	14 33	13 27	1 18	3 35			
W20	1 1	24 55	2 52	1 57	0 45	16 56	1 42	16 41	1 12	11 2	1 22	19 49	1 37	12 26	0 42	15 8	1 48	21 43	11 57	14 4	14 34	13 24	1 21	3 35			
T 21	0 37	21 47	1 54	2 43	0 38	17 21	1 46	16 30	1 12	11 5	1 22	19 49	1 37	12 25	0 42	15 8	1 48	21 44	11 57	14 3	14 35	13 21	1 24	3 34			
F 22	0 14	17 48	0 52	3 29	0 32	17 46	1 50	16 19	1 13	11 7	1 22	19 50	1 37	12 24	0 42	15 8	1 48	21 44	11 57	14 3	14 36	13 18	1 27	3 34			
S 23	0s 9	13 8	0n12	4 14	0 25	18 10	1 54	16 8	1 13	11 9	1 22	19 51	1 36	12 23	0 42	15 7	1 48	21 44	11 57	14 3	14 37	13 15	1 31	3 34			
S 24	0 33	7 59	1 16	4 59	0 18	18 33	1 59	15 56	1 14	11 12	1 22	19 52	1 36	12 22	0 43	15 7	1 48	21 45	11 57	14 3	14 38	13 12	1 34	3 34			
M25	0 56	2 31	2 16	5 43	0 11	18 56	2 3	15 45	1 14	11 14	1 21	19 53	1 36	12 20	0 43	15 7	1 48	21 45	11 56	14 4	14 39	13 9	1 37	3 34			
T 26	1 19	3n 6	3 12	6 27	0 4	19 19	2 7	15 33	1 15	11 16	1 21	19 54	1 36	12 19	0 43	15 6	1 48	21 45	11 56	14 6	14 40	13 6	1 40	3 33			
W27	1 43	8 40	3 59	7 10	0s 3	19 42	2 11	15 22	1 15	11 18	1 21	19 55	1 36	12 18	0 43	15 6	1 49	21 46	11 56	14 8	14 41	13 3	1 44	3 33			
T 28	2 6	13 59	4 35	7 53	0 10	20 4	2 16	15 10	1 16	11 20	1 21	19 56	1 35	12 17	0 43	15 6	1 49	21 46	11 56	14 10	14 42	13 0	1 47	3 33			
F 29	2 29	18 47	4 59	8 35	0 18	20 25	2 20	14 58	1 16	11 22	1 21	19 57	1 35	12 16	0 43	15 5	1 49	21 46	11 56	14 13	14 43	12 57	1 50	3 33			
S 30	2s53	22n50	5n 8	9s16	0s25	20s46	2s24	14n47	1n17	11s24	1s21	19s58	1n35	12n15	0n43	15n 5	1s49	21s46	11s56	14s15	14s44	12s54	1s53	3s33			

ASTRODIENST EPHEMERIS for the year 2045

geocentric

OCTOBER 2045

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 40 33	8♌13'41	3♊35	24♌24	23♊49	24♌27	3♊39	7♌21	29♌44	16♊39	2♊13	21♊39	20♌13	24♌50	26♊42	S 1	
M 2	0 44 30	9♍12'40	16♌51	25♌55	24♌54	25° 4	3♊34	7°26	29°47	16♌38	2♊12	21♌35	20°10	24°57	26°51	M 2	
T 3	0 48 26	10♎11'41	0♌21	27°25	25°59	25°41	3°29	7°31	29°50	16°37	2°11	21°32	20° 7	25° 3	26°59	T 3	
W 4	0 52 23	11°10'45	14° 7	28°55	27° 4	26°17	3°24	7°35	29°53	16°36	2°10	21°D32	20° 3	25°10	27° 8	W 4	
T 5	0 56 19	12° 9'51	28° 8	0♌24	28° 9	26°54	3°20	7°40	29°56	16°34	2° 9	21°33	20° 0	25°17	27°16	T 5	
F 6	1 0 16	13° 8'59	12♌25	1°51	29°13	27°31	3°15	7°45	29°59	16°33	2° 8	21°34	19°57	25°23	27°25	F 6	
S 7	1 4 12	14° 8'10	26°55	3°18	0♌18	28° 7	3°11	7°50	0♌2	16°32	2° 8	21°R34	19°54	25°30	27°33	S 7	
S 8	1 8 9	15° 7'23	11♌36	4°44	1°22	28°44	3° 7	7°56	0° 5	16°30	2° 7	21°32	19°51	25°36	27°42	S 8	
M 9	1 12 6	16° 6'37	26°21	6°10	2°25	29°21	3° 3	8° 1	0° 8	16°29	2° 6	21°28	19°48	25°43	27°50	M 9	
T 10	1 16 2	17° 5'55	11♌4	7°34	3°29	29°57	2°59	8° 6	0°11	16°27	2° 5	21°22	19°44	25°50	27°59	T 10	
W11	1 19 59	18° 5'14	25°38	8°57	4°32	0♌34	2°56	8°11	0°14	16°26	2° 4	21°13	19°41	25°56	28° 7	W11	
T 12	1 23 55	19° 4'35	9♌54	10°19	5°35	1°10	2°53	8°17	0°16	16°25	2° 3	21° 4	19°38	26° 3	28°15	T 12	
F 13	1 27 52	20° 3'58	23°48	11°41	6°38	1°46	2°49	8°22	0°19	16°23	2° 3	20°54	19°35	26°10	28°24	F 13	
S 14	1 31 48	21° 3'23	7♌17	13° 1	7°41	2°22	2°46	8°28	0°22	16°22	2° 2	20°46	19°32	26°16	28°32	S 14	
S 15	1 35 45	22° 2'50	20°20	14°20	8°43	2°59	2°44	8°33	0°24	16°20	2° 1	20°39	19°29	26°23	28°40	S 15	
M16	1 39 41	23° 2'19	2♌59	15°37	9°45	3°35	2°41	8°39	0°27	16°19	2° 0	20°35	19°25	26°30	28°48	M16	
T 17	1 43 38	24° 1'50	15°18	16°54	10°47	4°11	2°39	8°45	0°30	16°17	2° 0	20°33	19°22	26°36	28°57	T 17	
W18	1 47 35	25° 1'22	27°21	18° 9	11°48	4°47	2°37	8°50	0°32	16°16	1°59	20°D32	19°19	26°43	29° 5	W18	
T 19	1 51 31	26° 0'56	9♌13	19°22	12°49	5°23	2°35	8°56	0°35	16°14	1°58	20°33	19°16	26°50	29°13	T 19	
F 20	1 55 28	27° 0'31	21° 1	20°34	13°50	5°59	2°33	9° 2	0°37	16°12	1°58	20°R33	19°13	26°56	29°21	F 20	
S 21	1 59 24	28° 0'09	2♌49	21°45	14°50	6°35	2°31	9° 8	0°40	16°11	1°57	20°32	19° 9	27° 3	29°29	S 21	
S 22	2 3 21	28°59'48	14°43	22°53	15°50	7°11	2°30	9°14	0°42	16° 9	1°56	20°30	19° 6	27°10	29°37	S 22	
M23	2 7 17	29°59'29	26°45	23°59	16°50	7°46	2°29	9°20	0°44	16° 8	1°56	20°24	19° 3	27°16	29°45	M23	
T 24	2 11 14	0♌59'12	9♌0	25° 3	17°49	8°22	2°28	9°26	0°47	16° 6	1°55	20°16	19° 0	27°23	29°53	T 24	
W25	2 15 10	1°58'56	21°29	26° 4	18°48	8°58	2°27	9°32	0°49	16° 4	1°55	20° 5	18°57	27°29	0♌1	W25	
T 26	2 19 7	2°58'43	4♌12	27° 3	19°46	9°33	2°27	9°38	0°51	16° 3	1°54	19°53	18°54	27°36	0° 9	T 26	
F 27	2 23 3	3°58'31	17°10	27°58	20°44	10° 9	2°26	9°44	0°53	16° 1	1°54	19°41	18°50	27°43	0°17	F 27	
S 28	2 27 0	4°58'22	0♌22	28°50	21°42	10°44	2°D26	9°50	0°55	16° 0	1°53	19°28	18°47	27°49	0°24	S 28	
S 29	2 30 57	5°58'15	13°45	29°38	22°39	11°20	2°26	9°57	0°58	15°58	1°53	19°18	18°44	27°56	0°32	S 29	
M30	2 34 53	6°58'10	27°18	0♌22	23°35	11°55	2°27	10° 3	1° 0	15°56	1°52	19°10	18°41	28° 3	0°40	M30	
T 31	2 38 50	7♌58'07	11♌0	1♌1	24♌31	12♌30	2♌27	10♌9	1♌2	15♌55	1♌52	19♌5	18♌38	28♌9	0♌48	T 31	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	3s16	25n48	5n 2	9s57	0s32	21s 7	2s28	14n35	1n17	11s26	1s21	19s58	1n35	12n14	0n43	15n 5	S 1
M 2	3 39	27 25	4 39	10 37	0 39	21 27	2 32	14 23	1 18	11 27	1 21	19 59	1 35	12 13	0 43	15 4	M 2
T 3	4 2	27 27	4 1	11 17	0 47	21 47	2 36	14 11	1 18	11 29	1 21	20 0	1 34	12 12	0 43	15 4	T 3
W 4	4 25	25 48	3 8	11 56	0 54	22 6	2 40	13 59	1 18	11 31	1 21	20 1	1 34	12 11	0 43	15 3	W 4
T 5	4 48	22 32	2 3	12 34	1 1	22 25	2 44	13 47	1 19	11 32	1 21	20 2	1 34	12 10	0 43	15 3	T 5
F 6	5 11	17 52	0 49	13 11	1 8	22 43	2 48	13 35	1 19	11 34	1 20	20 3	1 34	12 9	0 43	15 3	F 6
S 7	5 34	12 5	0s29	13 48	1 15	23 0	2 52	13 22	1 20	11 35	1 20	20 4	1 34	12 8	0 43	15 2	S 7
S 8	5 57	5 35	1 46	14 24	1 22	23 18	2 56	13 10	1 20	11 36	1 20	20 5	1 34	12 7	0 43	15 2	S 8
M 9	6 20	1s14	2 55	14 59	1 29	23 34	2 59	12 58	1 21	11 38	1 20	20 6	1 33	12 6	0 43	15 1	M 9
T 10	6 43	7 57	3 53	15 33	1 36	23 50	3 3	12 45	1 21	11 39	1 20	20 7	1 33	12 5	0 43	15 1	T 10
W11	7 6	14 10	4 35	16 6	1 43	24 6	3 6	12 33	1 22	11 40	1 20	20 8	1 33	12 4	0 43	15 0	W11
T 12	7 28	19 30	4 59	16 39	1 49	24 21	3 10	12 20	1 22	11 41	1 20	20 9	1 33	12 3	0 43	15 0	T 12
F 13	7 51	23 38	5 4	17 10	1 56	24 35	3 13	12 8	1 23	11 42	1 19	20 10	1 33	12 2	0 43	15 0	F 13
S 14	8 13	26 20	4 52	17 41	2 2	24 49	3 17	11 55	1 23	11 43	1 19	20 11	1 33	12 1	0 43	14 59	S 14
S 15	8 35	27 30	4 25	18 10	2 8	25 3	3 20	11 43	1 24	11 44	1 19	20 12	1 32	12 0	0 43	14 59	S 15
M16	8 57	27 10	3 46	18 39	2 14	25 16	3 23	11 30	1 24	11 45	1 19	20 13	1 32	11 59	0 43	14 58	M16
T 17	9 19	25 29	2 57	19 6	2 19	25 28	3 26	11 17	1 25	11 45	1 19	20 14	1 32	11 58	0 43	14 58	T 17
W18	9 41	22 40	2 1	19 33	2 25	25 39	3 29	11 4	1 25	11 46	1 19	20 15	1 32	11 57	0 43	14 57	W18
T 19	10 3	18 55	1 0	19 58	2 30	25 50	3 32	10 52	1 25	11 47	1 19	20 16	1 32	11 56	0 43	14 57	T 19
F 20	10 24	14 27	0n 2	20 23	2 35	26 1	3 35	10 39	1 26	11 47	1 18	20 17	1 32	11 56	0 43	14 56	F 20
S 21	10 46	9 07	1 5	20 45	2 39	26 11	3 38	10 26	1 26	11 47	1 18	20 19	1 31	11 55	0 43	14 56	S 21
S 22	11 7	4 6	2 5	21 7	2 43	26 20	3 40	10 13	1 27	11 48	1 18	20 20	1 31	11 54	0 43	14 55	S 22
M23	11 28	1n28	3 0	21 28	2 47	26 29	3 43	10 0	1 27	11 48	1 18	20 21	1 31	11 53	0 43	14 55	M23
T 24	11 49	7 3	3 47	21 47	2 50	26 37	3 45	9 47	1 28	11 48	1 18	20 22	1 31	11 52	0 43	14 54	T 24
W25	12 10	12 28	4 25	22 4	2 53	26 44	3 48	9 34	1 28	11 48	1 18	20 23	1 31	11 52	0 43	14 54	W25
T 26	12 30	17 28	4 50	22 20	2 55	26 51	3 50	9 21	1 29	11 48	1 17	20 24	1 31	11 51	0 43	14 54	T 26
F 27	12 50	21 46	5 1	22 35	2 57	26 58	3 52	9 8	1 29	11 48	1 17	20 25	1 31	11 50	0 44	14 53	F 27
S 28	13 11	25 2	4 56	22 47	2 58	27 4	3 54	8 55	1 30	11 48	1 17	20 26	1 30	11 49	0 44	14 53	S 28
S 29	13 31	26 59	4 35	22 58	2 59	27 9	3 55	8 42	1 30	11 48	1 17	20 27	1 30	11 49	0 44	14 52	S 29
M30	13 50	27 22	3 58	23 8	2 58	27 13	3 57	8 29	1 31	11 48	1 17	20 28	1 30	11 48	0 44	14 52	M30
T 31	14s10	26n 5	3n 7	23s15	2s57	27s17	3s58	8n16	1n31	11s47	1s16	20s29	1n30	11n47	0n44	14n51	T 31

Julian Day Number = 2468254.5, Delta T = 73.37 sec
 Ecliptic obliquity = 23°26'08", Nutation = 0°00'10", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 25°22'46", Lahiri = 24°29'46"

ASTRODIENST EPHEMERIS for the year 2045
geocentric

NOVEMBER 2045

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 42 46	8♐58'06	24♊50	1♈35	25♈27	13♏5	2♊28	10♈16	1♏3	15♏53	1♏52	19♏R 3	18♏35	28♏16	0♏55	W 1
T 2	2 46 43	9°58'07	8♏48	2° 3	26°22	13°41	2°29	10°22	1° 5	15♏51	1♏51	19°D 2	18°31	28°23	1° 3	T 2
F 3	2 50 39	10°58'10	22°53	2°25	27°16	14°16	2°30	10°29	1° 7	15°50	1°51	19°R 2	18°28	28°29	1°10	F 3
S 4	2 54 36	11°58'16	7♏5	2°39	28°10	14°51	2°31	10°35	1° 9	15°48	1°51	19°≈ 1	18°25	28°36	1°18	S 4
S 5	2 58 33	12°58'24	21°22	2°R46	29° 3	15°26	2°32	10°42	1°11	15°46	1°51	18°59	18°22	28°43	1°25	S 5
M 6	3 2 29	13°58'33	5♏41	2°45	29°56	16° 1	2°34	10°48	1°12	15°44	1°50	18°53	18°19	28°49	1°32	M 6
T 7	3 6 26	14°58'45	19°59	2°35	0♏48	16°35	2°36	10°55	1°14	15°43	1°50	18°44	18°15	28°56	1°40	T 7
W 8	3 10 22	15°58'59	4♏10	2°15	1°39	17°10	2°38	11° 2	1°16	15°41	1°50	18°33	18°12	29° 2	1°47	W 8
T 9	3 14 19	16°59'14	18° 9	1°45	2°30	17°45	2°40	11° 8	1°17	15°39	1°50	18°20	18° 9	29° 9	1°54	T 9
F 10	3 18 15	17°59'32	1♏51	1° 6	3°19	18°19	2°43	11°15	1°19	15°38	1°50	18° 8	18° 6	29°16	2° 1	F 10
S 11	3 22 12	18°59'51	15°13	0°16	4° 8	18°54	2°45	11°22	1°20	15°36	1°49	17°56	18° 3	29°22	2° 8	S 11
S 12	3 26 8	20° 0'11	28°12	29♐18	4°57	19°28	2°48	11°28	1°22	15°34	1°49	17°46	18° 0	29°29	2°15	S 12
M13	3 30 5	21° 0'34	10♏50	28°11	5°44	20° 3	2°51	11°35	1°23	15°33	1°49	17°39	17°56	29°36	2°22	M13
T 14	3 34 2	22° 0'57	23° 9	26°58	6°31	20°37	2°55	11°42	1°24	15°31	1°49	17°35	17°53	29°42	2°29	T 14
W15	3 37 58	23° 1'22	5≈12	25°39	7°16	21°11	2°58	11°49	1°25	15°29	1°D49	17°33	17°50	29°49	2°35	W15
T 16	3 41 55	24° 1'48	17° 5	24°19	8° 1	21°45	3° 2	11°56	1°27	15°28	1°49	17°32	17°47	29°56	2°42	T 16
F 17	3 45 51	25° 2'16	28°53	22°58	8°45	22°19	3° 6	12° 3	1°28	15°26	1°49	17°32	17°44	0♏2	2°49	F 17
S 18	3 49 48	26° 2'45	10♏42	21°41	9°27	22°53	3°10	12°10	1°29	15°24	1°49	17°32	17°41	0° 9	2°55	S 18
S 19	3 53 44	27° 3'15	22°37	20°29	10° 9	23°27	3°14	12°17	1°30	15°23	1°50	17°29	17°37	0°16	3° 2	S 19
M20	3 57 41	28° 3'46	4♏43	19°24	10°49	24° 1	3°18	12°23	1°31	15°21	1°50	17°24	17°34	0°22	3° 8	M20
T 21	4 1 37	29° 4'19	17° 4	18°29	11°28	24°35	3°23	12°30	1°32	15°19	1°50	17°16	17°31	0°29	3°14	T 21
W22	4 5 34	0♏4'53	29°43	17°45	12° 6	25° 8	3°28	12°37	1°32	15°18	1°50	17° 6	17°28	0°36	3°21	W22
T 23	4 9 31	1° 5'29	12♏42	17°12	12°43	25°42	3°33	12°44	1°33	15°16	1°50	16°54	17°25	0°42	3°27	T 23
F 24	4 13 27	2° 6'05	25°59	16°51	13°19	26°15	3°38	12°51	1°34	15°15	1°50	16°41	17°21	0°49	3°33	F 24
S 25	4 17 24	3° 6'44	9♐35	16°D41	13°53	26°49	3°43	12°58	1°35	15°13	1°51	16°29	17°18	0°56	3°39	S 25
S 26	4 21 20	4° 7'23	23°24	16°42	14°25	27°22	3°49	13° 6	1°35	15°11	1°51	16°18	17°15	1° 2	3°45	S 26
M27	4 25 17	5° 8'04	7♏23	16°54	14°56	27°55	3°54	13°13	1°36	15°10	1°51	16°11	17°12	1° 9	3°51	M27
T 28	4 29 13	6° 8'47	21°28	17°16	15°26	28°28	4° 0	13°20	1°36	15° 8	1°52	16° 6	17° 9	1°15	3°57	T 28
W29	4 33 10	7° 9'31	5♏36	17°46	15°54	29° 1	4° 6	13°27	1°37	15° 7	1°52	16° 3	17° 6	1°22	4° 2	W29
T 30	4 37 6	8♏10'17	19♏44	18♐24	16♏20	29♏34	4♏12	13♏34	1♏37	15♏5	1♏52	16°D 3	17≈2	1♏29	4≈8	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	14s29	23n12	2n 4	23s20	2s55	27s21	4s 0	8n 3	1n31	11s47	1s16	20s30	1n30	11n47	0n44	14n51	1s49	21s49	11s50	15s 7	15s15	11s16	3s34	3s30	
T 2	14 48	18 56	0 54	23 22	2 52	27 24	4 1	7 50	1 32	11 46	1 16	20 31	1 30	11 46	0 44	14 50	1 49	21 49	11 50	15 7	15 16	11 12	3 37	3 30	
F 3	15 7	13 34	0s20	23 22	2 47	27 26	4 2	7 37	1 32	11 46	1 16	20 32	1 30	11 45	0 44	14 50	1 49	21 49	11 49	15 7	15 17	11 9	3 40	3 30	
S 4	15 25	7 27	1 34	23 20	2 42	27 28	4 2	7 24	1 33	11 45	1 16	20 33	1 30	11 45	0 44	14 49	1 49	21 49	11 49	15 7	15 18	11 6	3 43	3 30	
S 5	15 44	0 57	2 42	23 15	2 35	27 29	4 3	7 11	1 33	11 45	1 16	20 34	1 29	11 44	0 44	14 49	1 49	21 49	11 49	15 8	15 19	11 3	3 46	3 30	
M 6	16 2	5s37	3 40	23 6	2 27	27 29	4 3	6 58	1 34	11 44	1 15	20 35	1 29	11 44	0 44	14 48	1 49	21 49	11 49	15 10	15 20	11 0	3 49	3 30	
T 7	16 20	11 53	4 24	22 55	2 17	27 30	4 4	6 44	1 34	11 43	1 15	20 36	1 29	11 43	0 44	14 48	1 49	21 48	11 48	15 12	15 21	10 57	3 52	3 30	
W 8	16 37	17 28	4 51	22 40	2 6	27 29	4 4	6 31	1 35	11 42	1 15	20 37	1 29	11 43	0 44	14 47	1 49	21 48	11 48	15 16	15 22	10 54	3 55	3 30	
T 9	16 54	22 2	5 0	22 21	1 53	27 28	4 3	6 18	1 35	11 41	1 15	20 38	1 29	11 42	0 44	14 47	1 49	21 48	11 48	15 20	15 23	10 51	3 57	3 30	
F 10	17 11	25 17	4 52	21 59	1 38	27 27	4 3	6 5	1 36	11 40	1 15	20 39	1 29	11 42	0 44	14 46	1 49	21 48	11 48	15 24	15 24	10 48	4 0	3 30	
S 11	17 28	27 3	4 27	21 33	1 22	27 25	4 2	5 52	1 36	11 39	1 14	20 40	1 29	11 41	0 44	14 46	1 49	21 48	11 47	15 27	15 25	10 44	4 3	3 30	
S 12	17 44	27 15	3 50	21 3	1 5	27 22	4 2	5 39	1 37	11 38	1 14	20 41	1 29	11 41	0 44	14 45	1 49	21 48	11 47	15 30	15 26	10 41	4 6	3 30	
M13	18 0	26 0	3 1	20 30	0 46	27 19	4 1	5 26	1 37	11 36	1 14	20 42	1 29	11 40	0 44	14 45	1 49	21 47	11 47	15 32	15 27	10 38	4 9	3 30	
T 14	18 16	23 31	2 5	19 53	0 26	27 16	3 59	5 13	1 38	11 35	1 14	20 43	1 29	11 40	0 44	14 44	1 49	21 47	11 47	15 34	15 28	10 35	4 11	3 30	
W15	18 32	20 1	1 5	19 15	0 5	27 12	3 58	5 0	1 38	11 34	1 14	20 44	1 28	11 39	0 44	14 44	1 49	21 47	11 46	15 34	15 29	10 32	4 14	3 30	
T 16	18 47	15 45	0 2	18 36	0n15	27 7	3 56	4 47	1 38	11 32	1 14	20 45	1 28	11 39	0 44	14 43	1 49	21 47	11 46	15 34	15 30	10 29	4 17	3 30	
F 17	19 1	10 55	1n 0	17 56	0 36	27 2	3 54	4 34	1 39	11 30	1 13	20 46	1 28	11 39	0 44	14 43	1 49	21 46	11 46	15 34	15 31	10 26	4 19	3 30	
S 18	19 16	5 43	2 0	17 18	0 55	26 57	3 52	4 21	1 39	11 29	1 13	20 47	1 28	11 38	0 44	14 42	1 49	21 46	11 46	15 35	15 32	10 22	4 22	3 30	
S 19	19 30	0 15	2 54	16 41	1 13	26 51	3 49	4 8	1 40	11 27	1 13	20 48	1 28	11 38	0 44	14 42	1 49	21 46	11 45	15 35	15 33	10 19	4 25	3 30	
M20	19 44	5n16	3 42	16 8	1 30	26 45	3 46	3 55	1 40	11 25	1 13	20 49	1 28	11 38	0 45	14 42	1 49	21 46	11 45	15 37	15 34	10 16	4 27	3 30	
T 21	19 57	10 43	4 21	15 39	1 45	26 39	3 43	3 42	1 41	11 24	1 13	20 50	1 28	11 37	0 45	14 41	1 49	21 45	11 45	15 39	15 35	10 13	4 30	3 30	
W22	20 10	15 51	4 48	15 14	1 58	26 32	3 40	3 29	1 41	11 22	1 12	20 51	1 28	11 37	0 45	14 41	1 49	21 45	11 45	15 42	15 36	10 10	4 32	3 30	
T 23	20 22	20 24	5 0	14 55	2 8	26 25	3 36	3 16	1 42	11 20	1 12	20 52	1 28	11 37	0 45	14 40	1 49	21 45	11 44	15 46	15 37	10 7	4 35	3 30	
F 24	20 35	24 4	4 57	14 41	2 17	26 17	3 32	3 3	1 42	11 18	1 12	20 53	1 28	11 37	0 45	14 40	1 49	21 44	11 44	15 50	15 38	10 4	4 37	3 30	
S 25	20 47	26 27	4 37	14 31	2 24	26 9	3 27	2 50	1 43	11 16	1 12	20 54	1 28	11 37	0 45	14 39	1 49	21 44	11 44	15 54	15 39	10 0	4 40	3 30	
S 26	20 58	27 17	4 1	14 27	2 28	26 1	3 23	2 38	1 43	11 13	1 12	20 55	1 27	11 36	0 45	14 39	1 49	21 44	11 44	15 57	15 40	9 57	4 42	3 30	
M27	21 9	26 23	3 10	14 28	2 31	25 52	3 18	2 25	1 44	11 11	1 12	20 56	1 27	11 36	0 45	14 38	1 49	21 43	11 43	15 59	15 41	9 54	4 45	3 30	
T 28	21 20	23 48	2 7	14 32	2 33	25 43	3 12	2 12	1 44	11 9	1 11	20 57	1 27	11 36	0 45	14 38	1 49	21 43	11 43	16 1	15 42	9 51	4 47	3 30	
W29	21 30	19 46	0 55	14 40	2 33	25 34	3 6	1 59	1 45	11 6	1 11	20 58	1 27	11 36	0 45	14 38	1 49	21 43	11 43	16 1	15 43	9 48	4 49	3 30	
T 30	21s40	14n35	0s20	14s52	2n32	25s25	3s 0	1n47	1n45	11s 4	1s11	20s59	1n27	11n36	0n45	14n37	1s49	21s42	11s43	16s 1	15s44	9s45	4s52	3s30	

ASTRODIENST EPHEMERIS for the year 2045

geocentric

DECEMBER 2045

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4 41 3	9♂11'04	3♂51	19♂9	16♂44	0♂7	4♂19	13♂41	1♂38	15°R 4	1♂53	16°R 3	16♂59	1♂35	4♂13	F 1	
S 2	4 45 0	10°11'52	17°56	20° 0	17° 7	0°40	4°25	13°48	1°38	15♂2	1°53	16≈3	16°56	1°42	4°19	S 2	
S 3	4 48 56	11°12'42	1♂58	20°57	17°28	1°12	4°32	13°55	1°38	15° 1	1°54	16° 1	16°53	1°49	4°24	S 3	
M 4	4 52 53	12°13'33	15°55	21°58	17°47	1°45	4°39	14° 2	1°38	14°59	1°54	15°57	16°50	1°55	4°29	M 4	
T 5	4 56 49	13°14'26	29°47	23° 4	18° 4	2°17	4°46	14° 9	1°38	14°58	1°55	15°50	16°46	2° 2	4°35	T 5	
W 6	5 0 46	14°15'20	13♂31	24°13	18°19	2°49	4°53	14°16	1°39	14°56	1°55	15°41	16°43	2° 9	4°40	W 6	
T 7	5 4 42	15°16'16	27° 4	25°25	18°32	3°22	5° 0	14°24	1°R39	14°55	1°56	15°30	16°40	2°15	4°45	T 7	
F 8	5 8 39	16°17'13	10♂23	26°40	18°42	3°54	5° 8	14°31	1°39	14°53	1°56	15°19	16°37	2°22	4°50	F 8	
S 9	5 12 35	17°18'10	23°27	27°57	18°51	4°25	5°15	14°38	1°38	14°52	1°57	15° 9	16°34	2°29	4°54	S 9	
S 10	5 16 32	18°19'09	6♂14	29°17	18°57	4°57	5°23	14°45	1°38	14°51	1°58	15° 1	16°31	2°35	4°59	S 10	
M11	5 20 29	19°20'08	18°44	0♂37	19° 0	5°29	5°31	14°52	1°38	14°49	1°58	14°55	16°27	2°42	5° 4	M11	
T 12	5 24 25	20°21'08	0≈58	2° 0	19°R 2	6° 1	5°39	14°59	1°38	14°48	1°59	14°51	16°24	2°49	5° 8	T 12	
W13	5 28 22	21°22'09	13° 0	3°23	19° 1	6°32	5°48	15° 6	1°37	14°47	2° 0	14°D50	16°21	2°55	5°13	W13	
T 14	5 32 18	22°23'10	24°53	4°48	18°57	7° 3	5°56	15°13	1°37	14°46	2° 0	14°50	16°18	3° 2	5°17	T 14	
F 15	5 36 15	23°24'12	6♂40	6°14	18°51	7°34	6° 4	15°20	1°37	14°44	2° 1	14°52	16°15	3° 9	5°21	F 15	
S 16	5 40 11	24°25'14	18°29	7°40	18°43	8° 5	6°13	15°27	1°36	14°43	2° 2	14°53	16°12	3°15	5°25	S 16	
S 17	5 44 8	25°26'17	0♂23	9° 8	18°32	8°36	6°22	15°34	1°36	14°42	2° 3	14°R53	16° 8	3°22	5°29	S 17	
M18	5 48 4	26°27'20	12°28	10°35	18°18	9° 7	6°31	15°41	1°35	14°41	2° 4	14°51	16° 5	3°28	5°33	M18	
T 19	5 52 1	27°28'23	24°50	12° 4	18° 2	9°38	6°40	15°49	1°34	14°40	2° 4	14°47	16° 2	3°35	5°37	T 19	
W20	5 55 58	28°29'27	7♂31	13°33	17°44	10° 8	6°49	15°56	1°34	14°38	2° 5	14°42	15°59	3°42	5°40	W20	
T 21	5 59 54	29°30'31	20°36	15° 2	17°23	10°39	6°59	16° 3	1°33	14°37	2° 6	14°35	15°56	3°48	5°44	T 21	
F 22	6 3 51	0♂31'36	4♂11	16°32	17° 0	11° 9	7° 8	16° 9	1°32	14°36	2° 7	14°27	15°52	3°55	5°47	F 22	
S 23	6 7 47	1°32'41	17°56	18° 2	16°34	11°39	7°18	16°16	1°31	14°35	2° 8	14°20	15°49	4° 2	5°51	S 23	
S 24	6 11 44	2°33'46	2♂6	19°33	16° 7	12° 9	7°28	16°23	1°30	14°34	2° 9	14°13	15°46	4° 8	5°54	S 24	
M25	6 15 40	3°34'52	16°32	21° 3	15°38	12°39	7°37	16°30	1°29	14°33	2°10	14° 8	15°43	4°15	5°57	M25	
T 26	6 19 37	4°35'58	1♂5	22°35	15° 7	13° 8	7°47	16°37	1°28	14°32	2°11	14° 6	15°40	4°22	6° 0	T 26	
W27	6 23 34	5°37'05	15°40	24° 6	14°35	13°38	7°58	16°44	1°27	14°31	2°12	14°D 5	15°37	4°28	6° 3	W27	
T 28	6 27 30	6°38'12	0♂12	25°38	14° 1	14° 7	8° 8	16°51	1°26	14°30	2°13	14° 6	15°33	4°35	6° 6	T 28	
F 29	6 31 27	7°39'19	14°36	27°10	13°27	14°36	8°18	16°58	1°25	14°30	2°14	14° 7	15°30	4°42	6° 8	F 29	
S 30	6 35 23	8°40'28	28°49	28°42	12°51	15° 5	8°29	17° 5	1°24	14°29	2°15	14° 9	15°27	4°48	6°11	S 30	
S 31	6 39 20	9♂41'36	12♂49	0♂15	12♂15	15♂34	8♂39	17♂11	1♂22	14♂28	2♂16	14°R 9	15≈24	4♂55	6♂13	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	21s49	8n38	1s33	15s 6	2n30	25s15	2s53	1n34	1n46	11s 2	1s11	21s 0	1n27	11n36	0n45	14n37	1s49	21s42	11s42	16s 1	15s45	9s41	4s54	3s31			
S 2	21 58	2 18	2 41	15 23	2 27	25 5	2 46	1 22	1 46	10 59	1 11	21 1	1 27	11 36	0 45	14 36	1 49	21 41	11 42	16 1	15 45	9 38	4 56	3 31			
S 3	22 7	4s 8	3 39	15 42	2 23	24 55	2 39	1 9	1 47	10 56	1 10	21 2	1 27	11 36	0 45	14 36	1 49	21 41	11 42	16 2	15 46	9 35	4 58	3 31			
M 4	22 15	10 19	4 23	16 2	2 18	24 45	2 31	0 57	1 47	10 54	1 10	21 3	1 27	11 36	0 45	14 36	1 49	21 41	11 42	16 3	15 47	9 32	5 1	3 31			
T 5	22 23	15 57	4 52	16 23	2 13	24 34	2 23	0 44	1 47	10 51	1 10	21 3	1 27	11 36	0 45	14 35	1 49	21 40	11 41	16 5	15 48	9 29	5 3	3 31			
W 6	22 30	20 43	5 4	16 46	2 7	24 24	2 14	0 32	1 48	10 48	1 10	21 4	1 27	11 36	0 45	14 35	1 49	21 40	11 41	16 8	15 49	9 26	5 5	3 31			
T 7	22 37	24 19	4 58	17 9	2 1	24 13	2 5	0 19	1 48	10 45	1 10	21 5	1 27	11 36	0 45	14 34	1 49	21 39	11 41	16 11	15 50	9 23	5 7	3 31			
F 8	22 44	26 33	4 36	17 33	1 55	24 2	1 55	0 7	1 49	10 43	1 10	21 6	1 27	11 36	0 45	14 34	1 49	21 39	11 41	16 14	15 51	9 19	5 9	3 31			
S 9	22 50	27 15	3 59	17 57	1 48	23 51	1 45	0s 5	1 49	10 40	1 9	21 7	1 27	11 36	0 45	14 34	1 49	21 39	11 40	16 17	15 52	9 16	5 11	3 31			
S 10	22 55	26 29	3 12	18 21	1 41	23 39	1 35	0 17	1 50	10 37	1 9	21 8	1 27	11 36	0 45	14 33	1 49	21 38	11 40	16 20	15 53	9 13	5 13	3 31			
M 11	23 0	24 22	2 15	18 45	1 34	23 28	1 24	0 29	1 50	10 33	1 9	21 9	1 27	11 36	0 45	14 33	1 49	21 38	11 40	16 22	15 54	9 10	5 15	3 32			
T 12	23 5	21 8	1 14	19 9	1 26	23 16	1 12	0 41	1 51	10 30	1 9	21 9	1 27	11 36	0 46	14 33	1 49	21 37	11 40	16 23	15 55	9 7	5 17	3 32			
W 13	23 9	17 4	0 10	19 32	1 19	23 5	1 0	0 53	1 51	10 27	1 9	21 10	1 26	11 36	0 46	14 32	1 49	21 37	11 39	16 23	15 56	9 3	5 19	3 32			
T 14	23 13	12 23	0n54	19 55	1 11	22 53	0 48	1 5	1 52	10 24	1 9	21 11	1 26	11 36	0 46	14 32	1 49	21 36	11 39	16 23	15 57	9 0	5 20	3 32			
F 15	23 16	7 17	1 55	20 18	1 4	22 41	0 35	1 17	1 52	10 21	1 9	21 12	1 26	11 37	0 46	14 32	1 49	21 36	11 39	16 22	15 58	8 57	5 22	3 32			
S 16	23 19	1 56	2 51	20 40	0 56	22 29	0 22	1 29	1 53	10 17	1 8	21 13	1 26	11 37	0 46	14 31	1 49	21 35	11 39	16 22	15 59	8 54	5 24	3 32			
S 17	23 21	3n32	3 41	21 1	0 49	22 17	0 8	1 41	1 53	10 14	1 8	21 13	1 26	11 37	0 46	14 31	1 48	21 35	11 39	16 22	16 0	8 51	5 26	3 32			
M 18	23 23	8 56	4 21	21 21	0 41	22 5	0n 6	1 52	1 54	10 10	1 8	21 14	1 26	11 37	0 46	14 31	1 48	21 34	11 38	16 23	16 1	8 48	5 27	3 32			
T 19	23 25	14 7	4 50	21 41	0 33	21 53	0 20	2 4	1 54	10 7	1 8	21 15	1 26	11 38	0 46	14 30	1 48	21 34	11 38	16 24	16 2	8 44	5 29	3 32			
W 20	23 26	18 50	5 6	22 0	0 26	21 41	0 35	2 15	1 55	10 3	1 8	21 16	1 26	11 38	0 46	14 30	1 48	21 33	11 38	16 25	16 3	8 41	5 30	3 33			
T 21	23 26	22 49	5 7	22 17	0 18	21 29	0 50	2 27	1 55	10 0	1 8	21 16	1 26	11 38	0 46	14 30	1 48	21 33	11 38	16 27	16 4	8 38	5 32	3 33			
F 22	23 26	25 43	4 51	22 34	0 11	21 17	1 5	2 38	1 56	9 56	1 8	21 17	1 26	11 39	0 46	14 30	1 48	21 32	11 37	16 30	16 4	8 35	5 33	3 33			
S 23	23 26	27 10	4 18	22 50	0 4	21 5	1 21	2 49	1 56	9 52	1 7	21 18	1 26	11 39	0 46	14 29	1 48	21 31	11 37	16 32	16 5	8 32	5 35	3 33			
S 24	23 25	26 53	3 28	23 5	0s 3	20 52	1 36	3 1	1 57	9 49	1 7	21 19	1 26	11 39	0 46	14 29	1 48	21 31	11 37	16 34	16 6	8 28	5 36	3 33			
M 25	23 23	24 48	2 24	23 19	0 11	20 40	1 52	3 12	1 57	9 45	1 7	21 19	1 26	11 40	0 46	14 29	1 48	21 30	11 37	16 35	16 7	8 25	5 38	3 33			
T 26	23 21	21 3	1 10	23 31	0 18	20 28	2 7	3 23	1 58	9 41	1 7	21 20	1 26	11 40	0 46	14 29	1 48	21 30	11 37	16 36	16 8	8 22	5 39	3 33			
W 27	23 19	16 0	0s 9	23 43	0 24	20 16	2 23	3 34	1 58	9 37	1 7	21 21	1 26	11 41	0 46	14 28	1 48	21 29	11 36	16 36	16 9	8 19	5 40	3 33			
T 28	23 16	10 3	1 27	23 53	0 31	20 4	2 39	3 45	1 59	9 33	1 7	21 21	1 26	11 41	0 46	14 28	1 48	21 29	11 36	16 36	16 10	8 16	5 41	3 34			
F 29	23 13	3 37	2 39	24 2	0 38	19 52	2 54	3 55	1 59	9 29	1 7	21 22	1 26	11 41	0 46	14 28	1 48	21 28	11 36	16 35	16 11	8 13	5 43	3 34			
S 30	23 9	2s53	3 40	24 10	0 44	19 40	3 9	4 6	2 0	9 25	1 6	21 23	1 26	11 42	0 46	14 28	1 48	21 28	11 36	16 35	16 12	8 9	5 44	3 34			
S 31	23s 5	9s10	4s27	24s16	0s50	19s29	3n24	4s17	2n 0	9s21	1s 6	21s23	1n26	11n42	0n46	14n28	1s48	21s27	11s36	16s35	16s13	8s 6	5s45	3s34			