

Astrodienst Ephemeris Tables for the year 1779

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

JANUARY 1779 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(并	Р	S.	v	Ç	Ŷ,	Day
F 1	6 41 56	10 ට 31'38	16 Ⅱ 43	29 궁 50	20°R19	24₽50	27 mg 3	23M42	16°R43	1 ≏ 29	0≈48	20°R30	19 Ⅲ 24	0 궁 56	23°R21	F 1
S 2	6 45 52	11°32'46	1954	0≈39	19 る 46	25°22	27° 5	23°47	16 Ⅱ 40	1°29	0°50	20∏30	19°21	1° 2	23 Y 21	S 2
S 3	6 49 49	12°33'55	17° 8	1°20	19°12	25°54	27° 7	23°53	16°38	1°R29	0°52	20°29	19°18	1° 9	23°D21	S 3
M 4	6 53 45	13°35'03	2 Ω 17	1°53	18°36	26°26	27° 8	23°58	16°36	1°29	0°54	20°26	19°14	1°16	23°21	M 4
T 5	6 57 42	14°36'11	17°11	2°16	18° 0	26°58	27°10	24° 4	16°34	1°29	0°56	20°23	19°11	1°22	23°21	T 5
W 6	7 1 38	15°37'20	1 Mp 42	2°29	17°23	27°30	27°11	24° 9	16°32	1°29	0°58	20°19	19° 8	1°29	23°21	W 6
T 7	7 5 3 5	16°38'28	15°45	2°R30	16°47	28° 1	27°12	24°15	16°30	1°29	0°59	20°16	19° 5	1°36	23°21	T 7
F 8	7 9 32	17°39'36	29°20	2°21	16°10	28°33	27°12	24°20	16°27	1°29	1° 1	20°13	19° 2	1°42	23°21	F 8
S 9	7 13 28	18°40'44	12 ≏ 27	1°59	15°33	29° 4	27°13	24°25	16°25	1°28	1° 3	20°12	18°59	1°49	23°22	S 9
S 10	7 17 25	19°41'51	25° 9	1°26	14°57	29°35	27°14	24°30	16°23	1°28	1° 5	20°D12	18°55	1°56	23°22	S 10
M11	7 21 21	20°42'59	7 M 31	0°42	14°22	0 M 7	27°14	24°35	16°21	1°28	1° 7	20°13	18°52	2° 2	23°22	M11
T 12	7 25 18	21°44'07	19°37	29 궁 47	13°48	0°38	27°R14	24°40	16°19	1°28	1° 9	20°15	18°49	2° 9	23°23	T 12
W13	7 29 14	22°45'14	1 ₹ 32	28°43	13°15	1° 9	27°14	24°45	16°17	1°27	1°11	20°17	18°46	2°15	23°24	W13
T 14	7 33 11	23°46'22	13°20	27°33	12°44	1°39	27°13	24°50	16°16	1°27	1°13	20°18	18°43	2°22	23°24	T 14
F 15	7 37 7	24°47'28	2 <u>5</u> ° 7	26°17	12°14	2°10	27°13	24°54	16°14	1°27	1°15	20°R18	18°39	2°29	23°25	F 15
S 16	7 41 4	25°48'35	6 궁 53	25° 0	11°46	2°40	27°12	24°59	16°12	1°26	1°16	20°16	18°36	2°35	23°26	S 16
S 17	7 45 1	26°49'41	18°44	23°42	11°20	3°11	27°11	25° 4	16°10	1°26	1°18	20°13	18°33	2°42	23°26	S 17
M18	7 48 57	27°50'46	0≈40	22°27	10°56	3°41	27°10	25° 8	16° 8	1°25	1°20	20° 8	18°30	2°49	23°27	M18
T 19	7 52 54	28°51'51	12°43	21°15	10°34	4°11	27° 9	25°13	16° 7	1°25	1°22	20° 1	18°27	2°55	23°28	T 19
W20	7 56 50	29°52'54	24°55	20°10	10°14	4°41	27° 7	25°17	16° 5	1°24	1°24	19°53	18°24	3° 2	23°29	W20
T 21	8 0 47	0≈53'57	7 ₩ 17	19°13	9°57	5°11	27° 5	25°21	16° 3	1°23	1°26	19°45	18°20	3° 9	23°30	T 21
F 22	8 4 43	1°54'59	19°50	18°23	9°43	5°40	27° 4	25°25	16° 2	1°23	1°28	19°38	18°17	3°15	23°31	F 22
S 23	8 8 40	2°56'00	2 Y 36	17°43	9°30	6°10	27° 1	25°29	16° 0	1°22	1°30	19°33	18°14	3°22	23°32	S 23
S 24	8 12 36	3°56'59	15°36	17°11	9°21	6°39	26°59	25°33	15°59	1°21	1°32	19°29	18°11	3°29	23°33	S 24
M25	8 16 33	4°57'58	28°53	16°49	9°13	7° 8	26°57	25°37	15°57	1°21	1°34	19°D27	18° 8	3°35	23°35	M25
T 26	8 20 30	5°58'55	12829	16°35	9° 8	7°37	26°54	25°41	15°56	1°20	1°36	19°27	18° 5	3°42	23°36	T 26
W27	8 24 26	6°59'51	26°25	16°D29	9°D 6	8° 6	26°51	25°45	15°55	1°19	1°37	19°28	18° 1	3°49	23°37	W27
T 28	8 28 23	8° 0'46	10 Ⅱ 42	16°31	9° 6	8°34	26°48	25°49	15°53	1°18	1°39	19°29	17°58	3°55	23°39	T 28
F 29	8 32 19	9° 1'40	25°18	16°41	9° 9	9° 3	26°45	25°52	15°52	1°18	1°41	19°R29	17°55	4° 2	23°40	F 29
S 30	8 36 16	10° 2'32	1095 9	16°57	9°13	9°31	26°42	25°56	15°51	1°17	1°43	19°28	17°52	4° 9	23°42	S 30
S 31	8 40 12	11 ≈ 3'23	259 9	17 る 20	9 3 20	9 M 59	26Mp38	25 M 59	15 Ⅱ 50	1 ≏ 16	1≈45	19 Ⅱ 23	17 Ⅱ 49	4 궁 15	23 Y 43	S 31

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F 1 S 2	23 s 3 22 58		21 s 0 0 s4 20 37 0 3			2n22 1n18 2 22 1 18		22n53 On 4 22 52 O 4	0n41 1n23 0 41 1 23		23n 8 23n 23 8 23	3 24s30 2 24 31	9n13
S 3 M 4 T 5 W 6 T 7 F 8 S 9	22 46 22 40 22 33 22 26 22 18 22 10 22 1	23 5 3 31 19 53 4 24 15 31 4 58 10 26 5 14 5 1 5 11 0s27 4 51 5 44 4 18	19 31 On1 19 11 O 2 18 53 O 4 18 37 1 18 23 1 2 18 12 1 4	6 18 3 4 10 0 17 53 4 24 8 17 44 4 38 6 17 36 4 51 4 17 27 5 4 3 17 20 5 16 2 17 12 5 28	8 41 1 38 8 53 1 38 9 4 1 38 9 15 1 38 9 26 1 38 9 37 1 39 9 48 1 39	2 20 1 21	16 46 2 5 16 48 2 5 16 49 2 5 16 50 2 5 16 51 2 5 16 52 2 5	22 52 0 4 22 52 0 4 22 51 0 4	0 41 1 23 0 41 1 23 0 41 1 23 0 41 1 23 0 41 1 24 0 42 1 24	24 4 4 11 24 3 4 11 24 3 4 11 24 2 4 11 24 2 4 11 24 2 4 11 24 1 4 11	23 7 23 23 7 23 23 7 23 23 7 23 23 6 23 23 6 23 23 6 23	2 24 31 2 24 32 2 24 33 1 24 34 1 24 35 1 24 35 1 24 36 0 24 37	9 12 0 8
	21 22 21 12	15 5 2 40 18 50 1 41 21 48 0 38	17 58 2 1 17 55 2 3 17 54 2 5 17 56 3	5 16 53 5 58 0 16 47 6 6 3 16 42 6 14	10 20 1 39	2 20 1 21 2 21 1 21 2 21 1 21 2 21 1 22 2 22 1 22 2 22 1 22	16 56 2 6 16 57 2 6 16 58 2 6 16 59 2 6	22 50 0 4 22 50 0 4	0 42 1 24 0 42 1 24	24 1 4 11 24 0 4 11 24 0 4 11 24 0 4 11	23 7 23 23 7 23 23 7 22 5 23 7 22 5	0 24 38 0 24 38 0 24 39 9 24 40 9 24 41 9 24 41	9 12 0 8 9 13 0 7 9 13 0 7 9 13 0 7 9 13 0 7 9 13 0 7
S 17 M18 T 19 W20 T 21 F 22 S 23	20 37 20 25	20 57 4 7 17 38 4 41 13 31 5 2 8 46 5 9	18 11 3 2 18 19 3 3 18 28 3 3 18 37 3 3 18 48 3 2	7 16 30 6 32 1 16 27 6 37 1 16 25 6 40 0 16 23 6 44 7 16 22 6 46	11 12 1 39 11 22 1 39 11 32 1 39 11 42 1 39 11 52 1 39	2 24 1 23 2 25 1 23 2 25 1 23 2 25 1 24 2 26 1 24 2 27 1 24	17 1 2 7 17 2 2 7 17 3 2 7 17 4 2 7 17 5 2 7	22 49 0 4 22 49 0 4 22 49 0 4 22 49 0 4 22 49 0 4	0 43 1 24 0 43 1 24 0 44 1 24 0 44 1 24 0 44 1 24	23 58 4 12 23 58 4 12	23 6 22 5 23 6 22 5 23 5 22 5 23 4 22 5 23 4 22 5	8 24 42 8 24 43 8 24 44 8 24 44 7 24 45 7 24 46 7 24 46	9 13 0 7 9 14 0 7 9 14 0 7 9 14 0 7 9 14 0 7 9 15 0 7 9 15 0 6
S 24 M25 T 26 W27 T 28 F 29 S 30	18 33 18 17 18 1 17 45	7 22 3 59 12 39 3 6 17 25 2 1 21 18 0 47 23 54 0n31 24 53 1 49	19 19 3 19 29 2 5 19 40 2 4 19 49 2 3 19 59 2 2 20 8 2 1	7 16 20 6 50 8 16 21 6 50 9 16 21 6 49 8 16 22 6 48 8 16 24 6 46 7 16 25 6 44	12 49 1 39 12 58 1 39	2 30 1 25 2 31 1 25 2 32 1 25 2 33 1 25 2 35 1 26 2 36 1 26 2 38 1 26 2 102	17 7 2 8 17 8 2 8 17 9 2 8 17 9 2 8 17 10 2 8 17 11 2 8	22 48 0 4 22 48 0 4 22 48 0 4 22 48 0 4		23 56 4 12 23 56 4 12 23 55 4 12 23 55 4 12 23 55 4 13 23 54 4 13	23 3 22 5 23 3 22 5 23 3 22 5 23 3 22 5 23 3 22 5		9 18 0 6

Julian Day Number = 2370826.5, Delta T = 22.23 sec Ecliptic obliquity = 23°28'06, Nutation = -0°00'16, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 21°39'17, Lahiri = 20°46'18Greg. Calendar

FEBRUARY 1779 00:00 UT

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M 1	8 44 9	12≈ 4'13	10Ω10	17 石 48	9 ට 30	10 M 27	26°R34	26M 3	15°R49	1°R15	1≈47	19°R17	17 Ⅱ 45	4 る 22	23 Y 45	M 1
T 2	8 48 5	13° 5'01	25° 2	18°22	9°42	10°55	26 m 31	26° 6	15 Ⅱ 48	1 ≏ 14	1°49	19耳 9	17°42	4°28	23°47	T 2
W 3	8 52 2	14° 5'48	9 m 37	19° 1	9°55	11°22	26°27	26° 9	15°47	1°13	1°51	19° 0	17°39	4°35	23°48	W 3
T 4	8 55 59	15° 6'35	23°47	19°43	10°11	11°49	26°22	26°12	15°46	1°12	1°53	18°51	17°36	4°42	23°50	T 4
F 5	8 59 55	16° 7'20	7 ≙ 30	20°30	10°29	12°17	26°18	26°15	15°45	1°11	1°54	18°43	17°33	4°48	23°52	F 5
S 6	9 3 52	17° 8'04	20°45	21°21	10°49	12°43	26°13	26°18	15°44	1°10	1°56	18°37	17°30	4°55	23°54	S 6
S 7	9 7 48	18° 8'47	3M32	22°15	11°11	13°10	26° 9	26°21	15°43	1° 9	1°58	18°34	17°26	5° 2	23°56	S 7
M 8	9 11 45	19° 9'29	15°57	23°12	11°34	13°36	26° 4	26°23	15°42	1°8	2° 0	18°D33	17°23	5°8	23°58	M 8
T 9	9 15 41	20°10'10	28° 5	24°12	12° 0	14° 3	25°59	26°26	15°41	1° 6	2° 2	18°33	17°20	5°15	24° 0	T 9
W10	9 19 38	21°10'50	9 .7 59	25°15	12°27	14°29	25°53	26°28	15°41	1° 5	2° 4	18°34	17°17	5°22	24° 2	W10
T 11	9 23 34	22°11'28	21°47	26°20	12°56	14°54	25°48	26°31	15°40	1° 4	2° 5	18°R34	17°14	5°28	24° 4	T 11
F 12	9 27 31	23°12'06	3 る 33	27°27	13°26	15°20	25°43	26°33	15°40	1° 3	2° 7	18°33	17°10	5°35	24° 6	F 12
S 13	9 31 28	24°12'42	15°22	28°37	13°58	15°45	25°37	26°35	15°39	1° 2	2° 9	18°29	17° 7	5°42	24° 9	S 13
S 14	9 35 24	25°13'17	27°17	29°48	14°31	16°10	25°31	26°37	15°39	1° 0	2°11	18°23	17° 4	5°48	24°11	S 14
M15	9 39 21	26°13'50	9≈21	1≈ 1	15° 6	16°35	25°25	26°39	15°38	0°59	2°13	18°14	17° 1	5°55	24°13	M15
T 16	9 43 17	27°14'22	21°36	2°16	15°42	16°59	25°19	26°41	15°38	0°58	2°14	18° 2	16°58	6° 2	24°16	T 16
W17	9 47 14	28°14'53	4) (4	3°33	16°19	17°23	25°13	26°43	15°38	0°57	2°16	17°49	16°55	6°8	24°18	W17
T 18	9 51 10	29°15'21	16°43	4°51	16°58	17°47	25° 7	26°45	15°37	0°55	2°18	17°36	16°51	6°15	24°20	T 18
F 19	9 55 7	0) 15 ′48	29°35	6°10	17°38	18°11	25° 0	26°47	15°37	0°54	2°20	17°24	16°48	6°22	24°23	F 19
S 20	9 59 3	1°16'14	12 Y 38	7°31	18°19	18°34	24°54	26°48	15°37	0°52	2°21	17°14	16°45	6°28	24°25	S 20
S 21	10 3 0	2°16'37	25°52	8°53	19° 1	18°57	24°47	26°49	15°37	0°51	2°23	17° 6	16°42	6°35	24°28	S 21
M22	10 6 57	3°16'58	9818	10°17	19°44	19°20	24°40	26°51	15°D37	0°50	2°25	17° 2	16°39	6°42	24°31	M22
T 23	10 10 53	4°17'18	22°55	11°42	20°28	19°42	24°34	26°52	15°37	0°48	2°26	17° 0	16°36	6°48	24°33	T 23
W24	10 14 50	5°17'35	6∏45	13° 8	21°13	20° 4	24°27	26°53	15°37	0°47	2°28	16°D59	16°32	6°55	24°36	W24
T 25	10 18 46	6°17'51	20°48	14°35	21°58	20°26	24°20	26°54	15°37	0°45	2°30	16°R59	16°29	7° 1	24°39	T 25
F 26	10 22 43	7°18'04	5 95 5	16° 3	22°45	20°47	24°13	26°55	15°37	0°44	2°31	16°58	16°26	7° 8	24°42	F 26
S 27	10 26 39	8°18'16	19°32	17°33	23°33	21° 9	24° 5	26°56	15°37	0°42	2°33	16°55	16°23	7°15	24°44	S 27
S 28	10 30 36	9 ¥ 18'25	4 Ω 7	19 ≈ 3	24 ට 21	21 M 29	23 m 58	26M57	15 Ⅲ 38	0 ჲ 41	2≈35	16耳50	16耳20	7 ට 21	24 Y 47	S 28

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M 1	17 s12	21n32	3n58	20 s23	1n55	16s30	6n39	13 s24	1n39	2n41	1n27	17s12	2n 9	22n47	0n 5	0n48	1n25	23 s54	4s13	23n 2	22n54	24 s52	9n19	0n 6
T 2	16 55	17 35	4 40	20 30	1 43	16 32	6 36	13 33	1 39	2 43	1 27	17 13	2 9	22 47	0 5	0 48	1 25	23 53	4 13	23 1	22 54	24 53	9 20	0 6
W 3	16 37	12 38	5 2	20 36	1 32	16 35	6 32	13 41	1 39	2 45	1 27	17 13	2 9	22 47	0 5	0 49	1 25	23 53	4 13	23 1	22 54	24 53	9 20	0 6
T 4	16 19	7 8	5 5	20 41	1 21	16 37	6 28	13 50	1 39	2 47	1 27	17 14	2 9	22 47	0 5	0 49	1 25	23 53	4 13	23 (22 53	24 54	9 21	0 5
F 5	16 1	1 27	4 50	20 45	1 10	16 40	6 24	13 58	1 39	2 49	1 28	17 14	2 10	22 47	0 5	0 50	1 25	23 52	4 13	22 59	22 53	24 55	9 21	0 5
S 6	15 43	4s 6	4 20	20 48	0 59	16 43	6 20	14 6	1 39	2 51	1 28	17 15	2 10	22 47	0 5	0 50	1 25	23 52	4 13	22 59	22 53	24 55	9 22	0 5
S 7	15 25	9 18	3 37	20 50	0 48	16 46	6 15	14 14	1 39	2 53	1 28	17 15	2 10	22 47	0 5	0 51	1 25	23 52	4 13	22 59	22 52	24 56	9 23	0 5
M 8	15 6	14 0	2 45	20 51	0 38	16 49	6 10	14 22	1 39	2 55	1 28	17 16	2 10	22 47	0 5	0 51	1 25	23 51	4 14	22 58	22 52	24 56	9 23	0 5
T 9	14 47	18 1	1 47	20 51	0 28	16 52	6 5	14 30	1 39	2 57	1 28	17 16	2 10	22 46	0 5	0 52	1 25	23 51	4 14	22 58	22 52	24 57	9 24	0 5
W10	14 27	21 13	0 46	20 49	0 18	16 55	6 0	14 38	1 38	2 59	1 29	17 17	2 10	22 46	0 5	0 52	1 25	23 51	4 14	22 59	22 52	24 58	9 25	0 5
T 11	14 8	23 30	0s17	20 47	0 8	16 58	5 54	14 46	1 38	3 2	1 29	17 17	2 11	22 46	0 5	0 53	1 25	23 50	4 14	22 59	22 51	24 58	9 25	0 5
F 12	13 48	24 44	1 19	20 43	0s 2	17 0	5 49	14 53	1 38	3 4	1 29	17 17	2 11	22 46	0 5	0 53	1 25	23 50	4 14	22 58	22 51	24 59	9 26	0 5
S 13	13 28	24 52	2 18	20 38	0 11	17 3	5 43	15 1	1 38	3 7	1 29	17 18	2 11	22 46	0 5	0 54	1 25	23 50	4 14	22 58	22 51	24 59	9 27	0 5
S 14	13 8	23 51	3 11	20 32	0 20	17 6	5 37	15 8	1 38	3 9	1 30	17 18	2 11	22 46	0 5	0 54	1 25	23 49	4 14	22 58	22 50	25 0	9 28	0 5
M15	12 47	21 43	3 56	20 25	0 28	17 8	5 31	15 15	1 38	3 12	1 30	17 18	2 11	22 46	0 5	0 55	1 25	23 49	4 14	22 57	22 50	25 0	9 28	0 5
T 16	12 27	18 35	4 31	20 16	0 37	17 10	5 25	15 22	1 37	3 14	1 30	17 18	2 12	22 46	0 5	0 55	1 25	23 49	4 15	22 56	22 50	25 1	9 29	0 4
W17	12 6	14 34	4 53	20 7	0 45	17 12	5 18	15 29	1 37	3 17	1 30	17 19	2 12	22 46	0 5	0 56	1 25	23 49	4 15	22 55	22 49	25 1	9 30	0 4
T 18	11 45	9 52	5 1	19 55	0 52	17 14	5 12	15 36	1 37	3 20	1 30	17 19	2 12	22 46	0 5	0 56	1 25	23 48	4 15	22 53	22 49	25 2	9 31	0 4
F 19	11 24	4 40	4 55	19 43	1 0	17 15	5 6	15 43	1 37	3 22	1 30	17 19	2 12	22 46	0 5	0 57	1 25	23 48	4 15	22 52	22 49	25 2	9 32	0 4
S 20	11 2	0n48	4 33	19 29	1 7	17 16	4 59	15 50	1 37	3 25	1 31	17 19	2 12	22 46	0 5	0 57	1 25	23 48	4 15	22 51	22 48	25 3	9 33	0 4
S 21	10 41	6 20	3 56	19 14	1 14	17 17	4 53	15 56	1 36	3 28	1 31	17 19	2 12	22 46	0 5	0 58	1 25	23 47	4 15	22 51	22 48	25 3	9 33	0 4
M22	10 19	11 41	3 5	18 58	1 20	17 18	4 46	16 2	1 36	3 31	1 31	17 19	2 13	22 46	0 5	0 59	1 26	23 47	4 15	22 50	22 48	25 4	9 34	0 4
T 23	9 57	16 32	2 4	18 41	1 26	17 18	4 39	16 9	1 36	3 33	1 31	17 20	2 13	22 46	0 5	0 59	1 26	23 47	4 15	22 50	22 48	25 4	9 35	0 4
W24	9 35	20 35	0 54	18 22	1 32	17 18	4 33	16 15	1 36	3 36	1 31	17 20	2 13	22 46	0 5	1 0	1 26	23 47	4 16	22 50	22 47	25 5	9 36	0 4
T 25	9 13	23 29	0n20	18 2	1 37	17 18	4 26	16 21	1 35	3 39	1 31	17 20	2 13	22 46	0 5	1 0	1 26	23 46	4 16	22 50	22 47	25 5	9 37	0 4
F 26	8 50	24 56	1 34	17 40	1 42	17 17	4 19	16 27	1 35	3 42	1 32	17 20	2 13	22 46	0 5	1 1	1 26	23 46	4 16	22 50	22 47	25 6	9 38	0 4
S 27	8 28	24 44	2 43	17 17	1 47	17 16	4 12	16 33	1 35	3 45	1 32	17 20	2 14	22 46	0 5	1 2	1 26	23 46	4 16	22 50	22 46	25 6	9 39	0 4
S 28	8s 5	22n50	3n42	16 s 5 3	1 s51	17s15	4n 5	16 s38	1n34	3n48	1n32	17 s20	2n14	22n46	0n 5	1n 2	1n26	23 s46	4s16	22n49	22n46	25 s 7	9n40	0n 4

Julian Day Number = 2370857.5, Delta T = 22.24 sec Ecliptic obliquity = 23°28'07, Nutation = -0°00'15, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $21^{\circ}39'21$, Lahiri = $20^{\circ}46'22$ Greg. Calendar

MARCH 1779 00:00 UT

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Day	Sid.t	0	D	ğ	P	♂	4	ħ)∤(¥	Р	v	v	Ç	ę,	Day
M 1	10 34 32	10) 18′32	18 Ω 44	20≈35	25 궁 11	21 M .50	23°R51	26 M 57	15 Ⅱ 38	0°R39	2≈36	16°R41	16 I I16	7 云 28	24 Υ 50	M 1
T 2	10 38 29	11°18'38	3 m 17	22° 8	26° 1	22°10	23 Mp 43	26°58	15°39	0 ჲ 38	2°38	16耳30	16°13	7°35	24°53	T 2
W 3	10 42 26	12°18'41	17°37	23°42	26°51	22°29	23°36	26°58	15°39	0°36	2°39	16°18	16°10	7°41	24°56	W 3
T 4	10 46 22	13°18'42	1 ≏ 40	25°17	27°43	22°49	23°28	26°58	15°39	0°35	2°41	16° 5	16° 7	7°48	24°59	T 4
F 5	10 50 19	14°18'42	15°20	26°53	28°35	23° 8	23°21	26°59	15°40	0°33	2°42	15°55	16° 4	7°55	25° 2	F 5
S 6	10 54 15	15°18'40	28°34	28°31	29°28	23°26	23°13	26°R59	15°41	0°32	2°44	15°46	16° 1	8° 1	25° 5	S 6
S 7	10 58 12	16°18'36	11 M 24	0 ∺ 9	0≈21	23°44	23° 5	26°59	15°41	0°30	2°45	15°40	15°57	8° 8	25° 8	S 7
M 8	11 2 8	17°18'30	23°52	1°49	1°15	24° 2	22°58	26°58	15°42	0°28	2°47	15°37	15°54	8°15	25°12	M 8
T 9	11 6 5	18°18'23	6 ₹ 3	3°30	2°10	24°19	22°50	26°58	15°43	0°27	2°48	15°35	15°51	8°21	25°15	T 9
W10	11 10 1	19°18'14	18° 0	5°12	3° 5	24°36	22°42	26°58	15°44	0°25	2°50	15°35	15°48	8°28	25°18	W10
T 11	11 13 58	20°18'04	29°49	6°55	4° 1	24°52	22°34	26°58	15°44	0°24	2°51	15°35	15°45	8°35	25°21	T 11
F 12	11 17 55	21°17'52	11 る 37	8°39	4°57	25° 8	22°27	26°57	15°45	0°22	2°53	15°34	15°42	8°41	25°24	F 12
S 13	11 21 51	22°17'38	23°28	10°24	5°54	25°24	22°19	26°56	15°46	0°20	2°54	15°30	15°38	8°48	25°28	S 13
S 14	11 25 48	23°17'22	5≈27	12°11	6°51	25°39	22°11	26°56	15°47	0°19	2°55	15°24	15°35	8°55	25°31	S 14
M15	11 29 44	24°17'05	17°38	13°59	7°49	25°53	22° 3	26°55	15°48	0°17	2°57	15°15	15°32	9° 1	25°34	M15
T 16	11 33 41	25°16'45	0) 4	15°48	8°47	26° 7	21°55	26°54	15°50	0°15	2°58	15° 4	15°29	9° 8	25°38	T 16
W17	11 37 37	26°16'24	12°46	17°39	9°46	26°21	21°48	26°53	15°51	0°14	2°59	14°51	15°26	9°15	25°41	W17
T 18	11 41 34	27°16'01	25°44	19°30	10°45	26°34	21°40	26°52	15°52	0°12	3° 1	14°38	15°22	9°21	25°45	T 18
F 19	11 45 30	28°15'35	8 Ƴ 57	21°23	11°44	26°46	21°32	26°51	15°53	0°10	3° 2	14°26	15°19	9°28	25°48	F 19
S 20	11 49 27	29°15'08	22°23	23°17	12°44	26°58	21°25	26°49	15°55	0° 9	3° 3	14°15	15°16	9°35	25°51	S 20
S 21	11 53 23	0 Υ 14'38	6 8 1	25°13	13°44	27° 9	21°17	26°48	15°56	0° 7	3° 4	14° 8	15°13	9°41	25°55	S 21
M22	11 57 20	1°14'07	19°46	27° 9	14°45	27°20	21° 9	26°46	15°57	0° 5	3° 5	14° 3	15°10	9°48	25°58	M22
T 23	12 1 17	2°13'33	3 II 39	29° 7	15°45	27°30	21° 2	26°45	15°59	0° 4	3° 6	14° 1	15° 7	9°55	26° 2	T 23
W24	12 5 13	3°12'57	17°37	1 Υ 6	16°47	27°40	20°54	26°43	16° 0	0° 2	3° 8	14°D 0	15° 3	10° 1	26° 6	W24
T 25	12 9 10	4°12'18	19941	3° 6	17°48	27°49	20°47	26°41	16° 2	0° 0	3° 9	14°R 1	15° 0	10° 8	26° 9	T 25
F 26	12 13 6	5°11'37	15°48	5° 7	18°50	27°57	20°39	26°40	16° 4	29 m 59	3°10	14° 0	14°57	10°15	26°13	F 26
S 27	12 17 3	6°10'54	29°59	7° 8	19°52	28° 5	20°32	26°38	16° 5	29°57	3°11	13°58	14°54	10°21	26°16	S 27
S 28	12 20 59	7°10'08	14 Ω 11	9°11	20°54	28°12	20°25	26°35	16° 7	29°55	3°12	13°54	14°51	10°28	26°20	S 28
M29	12 24 56	8° 9'20	28°21	11°14	21°57	28°19	20°18	26°33	16° 9	29°54	3°13	13°46	14°48	10°34	26°24	M29
T 30	12 28 52	9° 8'30	12 m 26	13°18	23° 0	28°25	20°11	26°31	16°11	29°52	3°14	13°37	14°44	10°41	26°27	T 30
W31	12 32 49	10 ° 7'37	26 m 21	15 Y 22	24≈ 3	28 M 30	20 Mg 4	26M29	16 I I12	29 m 51	3≈15	13 Ⅱ 27	14 ∏ 41	10 る 48	26 Y 31	W31

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M 1 T 2	7 s43 7 20	19n26 4n2	26 16 s28 52 16 1	1 s55 1 59			16 s44 16 50	1n34 1 33	3n51 3 54	1n32 1 32	17 s20 17 20		22n46 22 46		1n 3	1n26 1 26				22n46 22 45	25 s 7 25 8	9n41 9 42	0n 3 0 3
W 3 T 4	6 57 6 34	9 30 5 3 46 4 4	0 15 33 19 15 4				16 55 17 0	1 33 1 33	3 57 4 0	1 32 1 32	17 20 17 19					1 26 1 26			22 46 22 44	_		9 43 9 44	0 3 0 3
F 5 S 6	6 11 5 48	2s 1 4 2 7 32 3 4	12 14 33 11 14 1	2 7 2 9		3 31 3 24	17 5 17 10	1 32 1 32	4 4 4 7	1 32 1 32	17 19 17 19	2 15 2 15		0 5 0 5	1 6 1 6	1 26 1 26			22 43 22 42		25 9 25 9	9 45 9 46	0 3 0 3
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W10 T 11 F 12 S 13	3 27	24 43 1 1 25 10 2 1	-	2 12	16 31 16 24		17 34 17 39	1 30 1 29 1 28 1 28	4 19 4 22 4 25 4 29	1 33 1 33 1 33 1 33	17 18 17 18	2 16 2 16		0 5 0 5	1 9 1 9 1 10 1 11	1 26 1 26 1 26 1 26	23 44 23 43	4 18 4 18	22 41 22 41	22 43 22 42 22 42 22 42	25 11 25 12	9 50 9 52 9 53 9 54	0 3 0 3 0 3 0 2
S 14 M15 T 16 W17 T 18 F 19 S 20	2 16 1 53	22 40 3 5 19 48 4 2 15 59 4 5 11 24 5 6 13 4 5 0 39 4 3 5n 3 3 5	27 8 16 51 7 31 0 6 45 55 5 58 64 5 10	2 7 2 5 2 1 1 58 1 54	16 1 15 52 15 43 15 34 15 24	2 24 2 17 2 11 2 4	17 47 17 51 17 55 17 59 18 3 18 6	1 27 1 27 1 26 1 25 1 24 1 24 1 23	4 32 4 35 4 38 4 41 4 44 4 47 4 50	1 33	17 17 17 16 17 16 17 16 17 15	2 16 2 17 2 17 2 17 2 17 2 17	22 48 22 48 22 48	0 5 0 5 0 5 0 5 0 5	1 11 1 12 1 13 1 13 1 14 1 15 1 15	1 26 1 26 1 26 1 26 1 26 1 26 1 26	23 43 23 43 23 43 23 43	4 19 4 19 4 19 4 19 4 19	22 39 22 38 22 36 22 35 22 34	22 41 22 40 22 40 22 40	25 13 25 13	9 55 9 56 9 57 9 58 10 0 10 1 10 2	0 2 0 2 0 2 0 2 0 2 0 2 0 2
S 21 M22 T 23 W24 T 25 F 26 S 27	0n 6 0 30 0 53 1 17 1 40	10 36 3 15 42 2 20 1 0 5 23 13 0n1 25 0 1 3 25 11 2 4	7 3 30 5 2 38 65 1 46 9 0 52 62 0n 2	1 44 1 39 1 32 1 26 1 19 1 11	15 2 14 51 14 39 14 27 14 14 14 1	1 45 1 39 1 33 1 27 1 21 1 15	18 13 18 16 18 20 18 23 18 26	1 22 1 21 1 20 1 19 1 18 1 17 1 16	4 53 4 56 4 59 5 2 5 5 5 8 5 11		17 14 17 14 17 13 17 13 17 12 17 11	2 17 2 18 2 18 2 18 2 18 2 18	22 48 22 49 22 49 22 49 22 49 22 49	0 5 0 5 0 5 0 5 0 5 0 5	1 16 1 17 1 17 1 18 1 19 1 19	1 26 1 26 1 26 1 26 1 26 1 26 1 26	23 42 23 42 23 42 23 42 23 42 23 42 23 42	4 20 4 20 4 20 4 20 4 20 4 21	22 31 22 31 22 31 22 31 22 31 22 31	22 39 22 39 22 38 22 38 22 37 22 37	25 15 25 15 25 15 25 16	10 3 10 4 10 6 10 7 10 8 10 9	0 2 0 2 0 2 0 2 0 2 0 2 0 1
S 28 M29 T 30 W31	3 14		3 4 43 3 4 43	0 45 0 35	13 3			1 15 1 14 1 13 1n12	5 13 5 16 5 19 5n22	1 33 1 33	17 10 17 10 17 9 17s 8	2 19 2 19		0 5 0 5		1 26 1 26 1 26 1n26	23 42	4 21 4 21	22 29 22 28	22 36 22 36	25 17 25 17 25 17 25 s17	10 13 10 14	$\begin{array}{cc} 0 & 1 \\ 0 & 1 \end{array}$

Julian Day Number = 2370885.5, Delta T = 22.24 sec Ecliptic obliquity = 23°28'08, Nutation = -0°00'15, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 21°39'25, Lahiri = 20°46'26Greg. Calendar

APRIL 1779 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(¥	Р	ß	Ω	Ç	ę,	Day
T 1	12 36 46	11 ° 6'43	10₽ 2	17 Y 26	25≈ 6	28M35	19°R57	26°R26	16 I I14	29°R49	3≈16	13°R16	14∏38	10 궁 54	26 Y 35	T 1
F 2	12 40 42	12° 5'46	23°26	19°29	26°10	28°38	19 m 50	26M24	16°16	29 m 47	3°17	13 I 7	14°35	11° 1	26°38	F 2
S 3	12 44 39	13° 4'47	6 M 30	21°32	27°14	28°42	19°43	26°21	16°18	29°46	3°18	12°59	14°32	11°8	26°42	S 3
S 4	12 48 35	14° 3'46	19°14	23°35	28°18	28°44	19°37	26°19	16°20	29°44	3°18	12°54	14°28	11°14	26°46	S 4
M 5	12 52 32	15° 2'44	1 × 740	25°36	29°22	28°46	19°30	26°16	16°22	29°43	3°19	12°51	14°25	11°21	26°49	M 5
T 6	12 56 28	16° 1'40	13°50	27°35	0 ¥ 27	28°47	19°24	26°13	16°24	29°41	3°20	12°D51	14°22	11°28	26°53	T 6
W 7	13 0 25	17° 0'34	25°48	29°33	1°32	28°R47	19°18	26°10	16°27	29°39	3°21	12°51	14°19	11°34	26°57	W 7
T 8	13 421	17°59'26	7 云 39	1828	2°37	28°47	19°12	26° 7	16°29	29°38	3°22	12°52	14°16	11°41	27° 1	T 8
F 9	13 8 18	18°58'17	19°28	3°21	3°42	28°46	19° 6	26° 4	16°31	29°36	3°22	12°R53	14°13	11°48	27° 5	F 9
S 10	13 12 15	19°57'05	1≈21	5°11	4°47	28°44	19° 0	26° 1	16°33	29°35	3°23	12°52	14° 9	11°54	27° 8	S 10
S 11	13 16 11	20°55'52	13°22	6°57	5°53	28°42	18°54	25°58	16°36	29°33	3°24	12°49	14° 6	12° 1	27°12	S 11
M12	13 20 8	21°54'37	25°37	8°40	6°59	28°38	18°48	25°55	16°38	29°32	3°24	12°45	14° 3	12° 8	27°16	M12
T 13	13 24 4	22°53'21	8) 8	10°19	8° 5	28°34	18°43	25°51	16°40	29°30	3°25	12°38	14° 0	12°14	27°20	T 13
W14	13 28 1	23°52'02	20°59	11°54	9°11	28°29	18°38	25°48	16°43	29°29	3°26	12°30	13°57	12°21	27°23	W14
T 15	13 31 57	24°50'42	4Υ 10	13°25	10°17	28°23	18°33	25°45	16°45	29°27	3°26	12°22	13°53	12°28	27°27	T 15
F 16	13 35 54	25°49'20	17°41	14°51	11°23	28°17	18°28	25°41	16°48	29°26	3°27	12°14	13°50	12°34	27°31	F 16
S 17	13 39 50	26°47'56	1830	16°12	12°30	28°10	18°23	25°37	16°50	29°24	3°27	12° 7	13°47	12°41	27°35	S 17
S 18	13 43 47	27°46'30	15°32	17°29	13°37	28° 2	18°18	25°34	16°53	29°23	3°28	12° 2	13°44	12°48	27°39	S 18
M19	13 47 44	28°45'03	29°44	18°41	14°44	27°53	18°13	25°30	16°55	29°22	3°28	12° 0	13°41	12°54	27°42	M19
T 20	13 51 40	29°43'33	14Ⅱ 1	19°47	15°50	27°43	18° 9	25°26	16°58	29°20	3°28	11°D59	13°38	13° 1	27°46	T 20
W21	13 55 37	0842'01	28°20	20°49	16°58	27°33	18° 5	25°22	17° 1	29°19	3°29	12° 0	13°34	13° 8	27°50	W21
T 22	13 59 33	1°40'27	12936	21°45	18° 5	27°22	18° 1	25°19	17° 3	29°17	3°29	12° 1	13°31	13°14	27°54	T 22
F 23	14 3 30	2°38'51	26°49	22°36	19°12	27°10	17°57	25°15	17° 6	29°16	3°30	12°R 2	13°28	13°21	27°58	F 23
S 24	14 7 26	3°37'12	10 Ω 55	23°21	20°20	26°58	17°53	25°11	17° 9	29°15	3°30	12° 2	13°25	13°28	28° 1	S 24
S 25	14 11 23	4°35'32	24°54	24° 1	21°27	26°45	17°50	25° 7	17°12	29°13	3°30	12° 1	13°22	13°34	28° 5	S 25
M26	14 15 19	5°33'49	8 m /44	24°36	22°35	26°31	17°46	25° 3	17°15	29°12	3°30	11°57	13°19	13°41	28° 9	M26
T 27	14 19 16	6°32'04	22°25	25° 5	23°43	26°16	17°43	24°59	17°18	29°11	3°31	11°53	13°15	13°48	28°13	T 27
W28	14 23 13	7°30'17	5 ≙ 53	25°28	24°51	26° 1	17°40	24°54	17°20	29°10	3°31	11°47	13°12	13°54	28°17	W28
T 29	14 27 9	8°28'29	19° 8	25°46	25°59	25°45	17°37	24°50	1 <u>7</u> °23	29° 9	3°31	1 <u>1</u> °42	13° 9	1 <u>4°</u> 1	28°20	T 29
F 30	14 31 6	9 8 26'38	2 M 9	25 8 59	27) 7	25 M 29	17 m 34	24M46	17 Ⅲ 26	29 Mp 7	3≈31	11 II 37	13 II 6	14 る 8	28 Y 24	F 30

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T 1	4n24	0n11 4n	31 6n38	0s15	12 s32	0n41	18 s43	1n10	5n24	1n33	17s 8	2n19	22n50	0n 5	1n23	1n26	23 s41	-			25 s18		0n 1
F 2	4 47	5 s 3 1 3	52 7 35				18 45	1 9	5 27	1 32	17 7		22 50	0 5	1 24	1 26	23 41				25 18		0 1
S 3	5 10	10 51 3	2 8 31	0n 7	11 59	0 30	18 47	1 8	5 29	1 32	17 6	2 19	22 51	0 5	1 25	1 26	23 41	4 22	22 23	22 34	25 18	10 19	0 1
S 4	5 33	15 35 2	3 9 27	0 18	11 42	0 24	18 49	1 7	5 32	1 32	17 5	2 20	22 51	0 5	1 25	1 26	23 41			_	25 18	-	0 1
M 5	5 56	19 33 1	0 10 22	0 30	11 24	0 19	18 51	1 5	5 34	1 32	17 5	2 20	22 51	0 5	1 26	1 26	23 41	4 23	22 22	22 33	25 19	10 22	0 1
T 6	6 19	22 34 0s	5 11 16	0 41	11 7	0 14	18 53	1 4	5 37	1 32	17 4	2 20	22 51	0 5	1 27	1 26	23 41	4 23	22 22	22 33	25 19	10 23	0 1
W 7	6 41	24 33 1	9 12 9	0 53	10 48	0 9	18 54	1 2	5 39	1 32	17 3	2 20	22 51	0 5	1 27	1 26	23 41	4 23	22 22	22 33	25 19	10 24	0 1
T 8		25 24 2	9 13 0	1 4	10 30	0 4	18 56	1 1	5 41	1 32	17 2	2 20			1 28	1 26	23 41				25 19		0 1
F 9	7 26	25 5 3	4 13 49	1 15	10 11	0 s 1	18 57	0 59	5 44	1 32	17 1	2 20	-	0 5	1 28	1 26	23 41	-		_	25 19		0 0
S 10	7 49	23 38 3	51 14 36	1 26	9 51	0 6	18 58	0 57	5 46	1 32	17 1	2 20	22 52	0 5	1 29	1 26	23 41	4 24	22 22	22 32	25 20	10 28	0 0
S 11	8 11	21 6 4	28 15 22	1 36	9 32	0 10	18 59	0 56	5 48	1 31	17 0	2 20	22 52	0 5	1 30	1 26	23 42	4 24	22 22	22 31	25 20	10 30	0 0
M12	8 33	17 36 4	54 16 5	1 46	9 11	0 15	19 0	0 54	5 50	1 31	16 59	2 20	22 53	0 5	1 30	1 26	23 42	4 24	22 21	22 31	25 20	10 31	0 0
T 13	8 55	13 16 5	6 16 46	1 56	8 51	0 19	19 1	0 52	5 52	1 31	16 58	2 21	22 53	0 5	1 31	1 26	23 42	4 24	22 20	22 30	25 20	10 32	0 0
W14	9 16	8 14 5	4 17 24	2 4	8 30	0 24	19 2	0 50	5 54	1 31	16 57	2 21	22 53	0 5	1 31	1 26	23 42	4 24	22 19	22 30	25 20	10 33	0 0
T 15	9 38	2 42 4	46 18 0	2 13	8 9	0 28	19 2	0 49	5 56	1 31	16 56	2 21	22 53	0 5	1 32	1 26	23 42	4 25	22 18	22 30	25 20	10 35	0 s 0
F 16	9 59	3n 5 4	11 18 33	2 20	7 48	0 32	19 3	0 47	5 58	1 31	16 55	2 21	22 54	0 5	1 32	1 26	23 42	4 25	22 17	22 29	25 20	10 36	0 0
S 17	10 21	8 52 3	21 19 3	2 27	7 26	0 37	19 3	0 45	5 59	1 31	16 54	2 21	22 54	0 5	1 33	1 26	23 42	4 25	22 16	22 29	25 21	10 37	0 0
S 18	10 42	14 18 2	18 19 31	2 33	7 5	0 41	19 3	0 43	6 1	1 30	16 53	2 21	22 54	0 5	1 34	1 26	23 42	4 25	22 16	22 29	25 21	10 39	0 0
M19	11 3	19 3 1	6 19 56	2 38	6 42	0 44	19 3	0 41	6 3	1 30	16 53	2 21	22 54	0 5	1 34	1 26	23 42	4 25	22 15	22 28	25 21	10 40	0 0
T 20	11 23	22 42 0n	11 20 18	2 42	6 20	0 48	19 3	0 38	6 4	1 30	16 52	2 21	22 55	0 5	1 35	1 26	23 42	4 26	22 15	22 28	25 21	10 41	0 0
W21	11 44	24 55 1	28 20 38	2 45	5 57	0 52	19 3	0 36	6 6	1 30	16 51	2 21	22 55	0 5	1 35	1 26	23 42	4 26	22 15	22 27	25 21	10 43	0 0
T 22	12 4	25 30 2	39 20 55	2 47	5 34	0 56	19 3	0 34	6 7	1 30	16 50	2 21	22 55	0 5	1 36	1 26	23 42	4 26	22 16	22 27	25 21	10 44	0 1
F 23	12 24	24 24 3	39 21 9	2 48	5 11	0 59	19 2	0 32	6 9	1 30	16 49	2 21	22 56	0 5	1 36	1 26	23 43	4 26	22 16	22 27	25 21	10 45	0 1
S 24	12 44	21 47 4	27 21 21	2 48	4 48	1 3	19 1	0 29	6 10	1 29	16 48	2 21	22 56	0 5	1 37	1 26	23 43	4 26	22 16	22 26	25 21	10 46	0 1
S 25	13 4	17 54 4	57 21 30	2 47	4 24	1 6	19 1	0 27	6 11	1 29	16 47	2 21		0 5	1 37	1 26	23 43	4 27	22 15	22 26	25 21	10 48	0 1
M26	13 24	13 6 5	10 21 36	2 45	4 0	1 9	19 0	0 25	6 12	1 29	16 46	2 22	22 56	0 5	1 38	1 26	23 43	4 27	22 15	22 25	25 21	10 49	0 1
T 27	13 43	7 42 5	6 21 40	2 41	3 36	1 12	18 59	0 22	6 13	1 29	16 45	2 22		0 5	1 38	1 26	23 43				25 22		0 1
W28	14 2	2 1 4	44 21 41	2 37	3 12	1 15	18 58	0 20	6 14	1 29	16 44	2 22	22 57	0 5	1 39	1 26	23 43	4 27	22 14	22 25	25 22	10 52	0 1
T 29	14 21	3 s41 4	8 21 40	2 31	2 48	1 18	18 57	0 17	6 15	1 28	16 43	2 22	22 57	0 5	1 39	1 26	23 43				25 22		0 1
F 30	14n39	9s 7 3n	19 21n36	2n24	2 s23	1 s21	18 s55	0n15	6n16	1n28	16 s42	2n22	22n57	0n 5	1n40	1n26	23 s44	4 s 2 8	22n12	22n24	25 s22	10n54	0 s 1

Julian Day Number = 2370916.5, Delta T = 22.25 sec Ecliptic obliquity = 23°28'08, Nutation = -0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 21°39'29, Lahiri = 20°46'30Greg. Calendar

MAY 1779 00:00 UT

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Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)∤(¥	Р	r	v	Ç	ķ	Day
S 1	14 35 2	10824'46	14 M 55	26 8 6	28 米 15	25°R12	17°R32	24°R42	17 Ⅱ 29	29°R 6	3≈31	11°R33	13 II 3	14 궁 14	28 Y 28	S 1
S 2	14 38 59	11°22'52	27°25	26°R 7	29°23	24M55	17 m 30	24 M 37	17°32	29 m 5	3°31	11 II 31	12°59	14°21	28°32	S 2
M 3	14 42 55	12°20'56	9 × 743	26° 4	0 Υ 32	24°36	17°28	24°33	17°35	29° 4	3°31	11°D30	12°56	14°28	28°35	M 3
T 4	14 46 52	13°18'59	21°48	25°56	1°40	24°18	17°26	24°29	17°38	29° 3	3°31	11°30	12°53	14°34	28°39	T 4
W 5	14 50 48	14°17'01	3 云 44	25°43	2°49	23°59	17°24	24°24	17°42	29° 2	3°R31	11°32	12°50	14°41	28°43	W 5
T 6	14 54 45	15°15'01	15°35	25°25	3°58	23°40	17°22	24°20	17°45	29° 1	3°31	11°33	12°47	14°48	28°46	T 6
F 7	14 58 42	16°13'00	27°25	25° 4	5° 7	23°20	17°21	24°16	17°48	29° 0	3°31	11°35	12°44	14°54	28°50	F 7
S 8	15 238	17°10'57	9 ≈ 18	24°39	6°16	23° 0	17°19	24°11	17°51	28°59	3°31	11°36	12°40	15° 1	28°54	S 8
S 9	15 635	18° 8'53	21°20	24°11	7°25	22°39	17°18	24° 7	17°54	28°58	3°31	11°R36	12°37	15° 8	28°57	S 9
M10	15 10 31	19° 6'48	3) 34	23°40	8°34	22°18	17°18	24° 2	17°57	28°57	3°31	11°36	12°34	15°14	29° 1	M10
T 11	15 14 28	20° 4'41	16° 6	23° 7	9°43	21°57	17°17	23°58	18° 1	28°56	3°31	11°34	12°31	15°21	29° 5	T 11
W12	15 18 24	21° 2'33	28°59	22°33	10°52	21°36	17°16	23°53	18° 4	28°55	3°31	11°31	12°28	15°28	29° 8	W12
T 13	15 22 21	22° 0'24	12 Y 15	21°58	12° 1	21°15	17°16	23°49	18° 7	28°54	3°31	11°29	12°25	15°34	29°12	T 13
F 14	15 26 17	22°58'13	25°55	21°22	13°11	20°53	17°D16	23°44	18°10	28°53	3°30	11°26	12°21	15°41	29°16	F 14
S 15	15 30 14	23°56'02	9 8 57	20°47	14°20	20°32	17°16	23°40	18°14	28°53	3°30	11°24	12°18	15°48	29°19	S 15
S 16	15 34 10	24°53'49	24°19	20°13	15°30	20°10	17°16	23°36	18°17	28°52	3°30	11°22	12°15	15°54	29°23	S 16
M17	15 38 7	25°51'35	8耳54	19°41	16°39	19°49	17°16	23°31	18°20	28°51	3°29	11°D22	12°12	16° 1	29°26	M17
T 18	15 42 4	26°49'19	23°37	19°11	17°49	19°27	17°17	23°27	18°24	28°50	3°29	11°22	12° 9	16° 8	29°30	T 18
W19	15 46 0	27°47'02	89521	18°43	18°59	19° 6	17°18	23°22	18°27	28°50	3°29	11°23	12° 5	16°14	29°33	W19
T 20	15 49 57	28°44'43	22°59	18°18	20° 9	18°45	17°19	23°18	18°31	28°49	3°28	11°24	12° 2	16°21	29°37	T 20
F 21	15 53 53	29°42'23	7Ω 27	17°57	21°18	18°24	17°20	23°13	18°34	28°48	3°28	11°25	11°59	16°28	29°40	F 21
S 22	15 57 50	0 Ⅱ 40′01	21°41	17°39	22°28	18° 4	17°21	23° 9	18°37	28°48	3°27	11°25	11°56	16°34	29°43	S 22
S 23	16 146	1°37'38	5 m /38	17°26	23°38	17°43	17°23	23° 4	18°41	28°47	3°27	11°R25	11°53	16°41	29°47	S 23
M24	16 5 43	2°35'13	19°19	17°16	24°48	17°24	17°24	23° 0	18°44	28°47	3°26	11°25	11°50	16°48	29°50	M24
T 25	16 9 40	3°32'47	2 ≏ 43	17°11	25°58	17° 4	17°26	22°56	18°48	28°46	3°26	11°24	11°46	16°54	29°53	T 25
W26	16 13 36	4°30'19	15°51	17°D10	27° 8	16°45	17°28	22°51	18°51	28°46	3°25	11°24	11°43	17° 1	29°57	W26
T 27	16 17 33	5°27'50	28°44	17°14	28°19	16°27	17°30	22°47	18°55	28°45	3°25	11°23	11°40	17° 8	29°59	T 27
F 28	16 21 29	6°25'19	11 M 23	17°22	29°29	16° 9	17°33	22°43	18°58	28°45	3°24	11°22	11°37	17°14	0 8 3	F 28
S 29	16 25 26	7°22'48	23°50	17°35	0 8 39	15°51	17°35	22°38	19° 2	28°44	3°24	11°22	11°34	17°21	0° 6	S 29
S 30	16 29 22	8°20'15	6 ₹ 1 6	17°52	1°49	15°34	17°38	22°34	19° 5	28°44	3°23	11°D22	11°30	1 <u>7</u> °28	0°10	S 30
M31	16 33 19	9 Ⅱ 17'41	18 ∡ 12	18 8 13	3 8 0	15 M .18	17 m /41	22 M 30	19 I I 9	28 m /44	3≈22	11 II 22	11 Ⅱ 27	17 る 34	0813	M31

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S 1	14n58	14s 5 2n2	0 21n30	2n16 1	s59 1 s24	18 s54	0n12	6n17	1n28	16s41	2n22	22n58	0n 5	1n40	1n26	23 s44	4 s28	22n12	22n24	25 s22	10n55	0 s 1
S 2			6 21 21			18 52	0 9	6 18	1 28			22 58		1 40		23 44				25 22		
M 3			0 21 10	1 55 1			0 7	6 18	1 28		2 22			1 41	1 26					25 22		
T 4 W 5	15 51 16 9		6 20 56 9 20 41	-) 44 1 32) 19 1 34		0 4 0 1	6 19 6 19	1 27 1 27		2 22	22 59 22 59		1 41	1 26 1 26					25 22 25 22		
T 6	16 26	-	6 20 23		on 6 1 36		0 s 2	6 20	1 27		2 22			1 42	-					25 22		0 2
F 7	16 43	24 24 3 4		1 2 0	32 1 38		0 5	6 20	1 27	16 34	2 22			1 42		23 45				25 22		0 2
S 8	16 59	22 14 4 2	6 19 42	0 47 0	57 1 40	18 40	0 8	6 20	1 27	16 33	2 22	23 0	0 5	1 43	1 25	23 45	4 29	22 12	22 21	25 22	11 4	0 2
S 9	17 15	19 4 4 5	6 19 20	0 30 1	23 1 42	18 38	0 10	6 21	1 26	16 32	2 22	23 0	0 5	1 43	1 25	23 45	4 30	22 12	22 20	25 22	11 5	0 2
M10			2 18 56	0 13 1	48 1 44		0 13	6 21	1 26				0 5	1 44	1 25	23 46			22 20			0 2
T 11			4 18 31		2 14 1 46		0 16	6 21	1 26		2 22		0 5	1 44	1 25	23 46				25 22		0 2
W12 T 13	18 2 18 17	5 0 5 0n41 4 3	1 18 5		2 40 1 47 3 5 1 49		0 19 0 22	6 21	1 26 1 25		2 22 2 22		0 5	1 44	1 25					25 22 25 22		0 2 0 2
F 14	18 17		5 17 13		-	18 27	0 22	6 21 6 21	1 25		2 22			1 44	1 25 1 25					25 22		0 2
S 15			5 16 48			18 21	0 28	6 20		16 26	2 22			1 45		23 47				25 21		
S 16	19 1	17 22 1 3	3 16 22	1 30 4	1 22 1 53	18 18	0 31	6 20	1 25	16 25	2 21	23 2	0 5	1 45	1 25	23 47	4 31	22 10	22 17	25 21	11 14	0 2
M17	19 15	21 35 0 1	4 15 58	1 46 4	1 48 1 54	18 15	0 34	6 20	1 25	16 24	2 21	23 2	0 5	1 46	1 25	23 47				25 21		
T 18	19 28					18 12	0 37	6 19	1 24			23 3		1 46	1 25					25 21		
W19 T 20	19 41				5 39 1 56			6 19	1 24			23 3		1 46	1 25					25 21		
F 21	19 54 20 7		1 14 53 3 14 35	2 31 6 2 44 6	5 5 1 57 5 30 1 57		0 43 0 46	6 18 6 18	1 24 1 24			23 3 23 4		1 46 1 47	1 25 1 25					25 21 25 21		
S 22	20 19				56 1 58		0 48	6 17		16 18	2 21			1 47		23 49				25 21		
S 23	20 31	14 20 5 1	5 14 4	3 6 7	7 21 1 59	17 58	0 51	6 16	1 23	16 17	2 21	23 4	0 5	1 47	1 25	23 49	4 32	22 11	22 14	25 21	11 22	0 3
	20 42	-	4 13 53		7 46 1 59		0 54	6 15	1 23			23 5		1 47	1 25					25 21		
1	20 53	3 26 4 5	5 13 43	3 24 8	3 11 1 59	17 52	0 57	6 14	1 23	16 15		23 5	0 5	1 47	1 25	23 50				25 20		
	21 4		2 13 36		36 2 0		1 0	6 13	1 23			23 5		1 47	1 25					25 20		
	21 14		5 13 31	3 38 9			1 2	6 12	1 22			23 6		1 48	1 25					25 20		
	21 24 21 34		9 13 28 6 13 28		26 2 0 50 2 0		1 5 1 8	6 11 6 10	1 22 1 22		2 21 2 20	23 6 23 6		1 48 1 48	1 25 1 25	23 51 23 51				25 20 25 20		0 3 0 3
	21 43					17 39	1 10			16 10						23 51				25 20		
	21 43 21n52					17 s36	1 s13			16s 9		23n 7		1 48 1n48	-	23 s52	-			25 s19	-	

Julian Day Number = 2370946.5, Delta T = 22.25 sec Ecliptic obliquity = $23^{\circ}28'08$, Nutation = - $0^{\circ}00'18$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $21^{\circ}39'34$, Lahiri = $20^{\circ}46'34$ Greg. Calendar

JUNE 1779 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ)મું(并	В	S.	v	Ç	Ŗ	Day
T 1	16 37 15	10 Ⅱ 15′07	0 궁 10	18 8 39	4810	15°R 2	17 m 44	22°R26	19 Ⅱ 12	28°R43	3°R22	11 II 22	11 II 24	17 云 41	0816	T 1
W 2	16 41 12	11°12'32	12° 3	19° 9	5°21	14 M 47	17°47	22 M 22	19°16	28 m 43	3≈21	11°R22	11°21	17°48	0°19	W 2
T 3	16 45 9	12° 9'56	23°53	19°43	6°31	14°33	17°50	22°18	19°19	28°43	3°20	11°22	11°18	17°54	0°22	T 3
F 4	16 49 5	13° 7'19	5≈43	20°22	7°42	14°19	17°54	22°14	19°23	28°43	3°19	11°21	11°15	18° 1	0°25	F 4
S 5	16 53 2	14° 4'41	17°37	21° 4	8°53	14° 6	17°58	22°10	19°26	28°43	3°19	11°21	11°11	18° 8	0°28	S 5
S 6	16 56 58	15° 2'03	29°38	21°51	10° 3	13°54	18° 1	22° 6	19°30	28°42	3°18	11°21	11°8	18°14	0°31	S 6
M 7	17 0 55	15°59'24	11 米 51	22°41	11°14	13°43	18° 5	22° 2	19°34	28°42	3°17	11°D21	11° 5	18°21	0°34	M 7
T 8	17 4 51	16°56'45	24°21	23°35	12°25	13°32	18°10	21°58	19°37	28°42	3°16	11°21	11° 2	18°28	0°37	T 8
W 9	17 8 48	17°54'05	7 Υ 10	24°32	13°36	13°22	18°14	21°54	19°41	28°42	3°15	11°21	10°59	18°34	0°40	W 9
T 10	17 12 44	18°51'25	20°23	25°33	14°47	13°13	18°18	21°50	19°44	28°D42	3°14	11°22	10°56	18°41	0°43	T 10
F 11	17 16 41	19°48'44	4 8 2	26°38	15°58	13° 5	18°23	21°47	19°48	28°42	3°13	11°22	10°52	18°48	0°45	F 11
S 12	17 20 38	20°46'03	18° 7	27°46	17° 9	12°57	18°28	21°43	19°51	28°42	3°12	11°23	10°49	18°55	0°48	S 12
S 13	17 24 34	21°43'22	2 II 36	28°58	18°20	12°51	18°33	21°39	19°55	28°42	3°11	11°24	10°46	19° 1	0°51	S 13
M14	17 28 31	22°40'40	17°24	0∏12	19°31	12°45	18°38	21°36	19°59	28°43	3°11	11°R24	10°43	19°8	0°54	M14
T 15	17 32 27	23°37'58	29525	1°31	20°42	12°40	18°43	21°32	20° 2	28°43	3°10	11°23	10°40	19°15	0°56	T 15
W16	17 36 24	24°35'15	17°30	2°52	21°53	12°36	18°49	21°29	20° 6	28°43	3° 9	11°22	10°37	19°21	0°59	W16
T 17	17 40 20	25°32'32	2 Ω 31	4°17	23° 4	12°33	18°54	21°26	20° 9	28°43	3° 7	11°20	10°33	19°28	1° 1	T 17
F 18	17 44 17	26°29'47	17°18	5°45	24°15	12°30	19° 0	21°22	20°13	28°43	3° 6	11°19	10°30	19°35	1° 4	F 18
S 19	17 48 13	27°27'02	1 M 46	7°16	25°27	12°29	19° 6	21°19	20°16	28°44	3° 5	11°17	10°27	19°41	1° 6	S 19
S 20	17 52 10	28°24'17	15°51	8°50	26°38	12°D28	19°12	21°16	20°20	28°44	3° 4	11°16	10°24	19°48	1° 9	S 20
M21	17 56 7	29°21'30	29°32	10°27	27°49	12°28	19°18	21°13	20°23	28°44	3° 3	11°D16	10°21	19°55	1°11	M21
T 22	18 0 3	09518'43	12 ≏ 50	12° 8	29° 1	12°29	19°24	21°10	20°27	28°45	3° 2	11°16	10°17	20° 1	1°13	T 22
W23	18 4 0	1°15'56	25°47	13°51	0 Ⅱ 12	12°31	19°31	21° 7	20°31	28°45	3° 1	11°17	10°14	20° 8	1°16	W23
T 24	18 7 56	2°13'08	8M26	15°38	1°24	12°33	19°37	21° 4	20°34	28°46	3° 0	11°19	10°11	20°15	1°18	T 24
F 25	18 11 53	3°10'19	20°50	17°27	2°35	12°36	19°44	21° 2	20°38	28°46	2°59	11°20	10° 8	20°21	1°20	F 25
S 26	18 15 49	4° 7'30	3 ₹ 2	19°19	3°47	12°41	19°51	20°59	20°41	28°47	2°57	11°21	10° 5	20°28	1°22	S 26
S 27	18 19 46	5° 4'41	15° 5	21°14	4°58	12°45	19°58	20°56	20°45	28°47	2°56	11°R21	10° 2	20°35	1°25	S 27
M28	18 23 42	6° 1'52	2 <u>7</u> ° 1	23°11	6°10	12°51	20° 5	20°54	20°48	28°48	2°55	11°20	9°58	20°41	1°27	M28
T 29	18 27 39	6°59'02	8 궁 54	25°11	7°22	12°58	20°12	20°51	20°52	28°48	2°54	11°18	9°55	20°48	1°29	T 29
W30	18 31 36	7956'13	20 궁 44	27 Ⅲ 12	8 Ⅲ 33	13 M 5	20 m 19	20 M .49	20 Ⅱ 55	28 M 49	2≈53	11 I I15	9∏52	20 궁 55	1 8 31	W30

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T 1 W 2	22 9	25 37 2	2 42 13	-	3 11 27 1	s59 17 s34 59 17 32	1 s 1 6 1 1 8	6 5	1n21 1 21	16 8	2 20		0n 5 0 5	1 48	1 25	23 s52 23 52	4 34	22 10	22 10	25 s 19 25 19	11 32	0 s 4 0 4
T 3 F 4 S 5	22 24	23 2 4	3 35 13 4 18 14 4 51 14	10 3 5	0 12 14 1	59 17 30 58 17 29 57 17 27	1 21 1 23 1 25	6 3 6 1 6 0	1 21 1 21 1 20	16 7 16 6 16 5	2 20 2 20 2 20	23 8	0 5 0 5 0 5	1 48	1 25	23 5323 5323 54	4 35	22 10 22 10 22 10	22 9	25 19 25 19 25 18	11 34	0 4 0 4 0 4
S 6 M 7	22 44	12 0 5	5 11 14 5 17 14	55 3 3	9 13 23 1	57 17 25 56 17 24	1 28 1 30	5 56	1 20 1 20	16 3		23 9	0 5 0 5	1 48	1 24		4 35	22 10 22 10	22 8	25 18 25 18	11 37	0 4 0 4
T 8 W 9 T 10 F 11	22 50 22 55 23 0 23 5	1 31 4 4n10 4	5 9 15 4 46 15 4 7 15 3 13 16	33 3 2 54 3 2	9 14 7 1 2 14 29 1	55 17 23 54 17 22 53 17 21 52 17 21	1 32 1 34 1 36 1 38	5 51	1 20 1 19 1 19 1 19	16 2 16 1	2 19 2 19	23 9		1 48 1 48			4 36 4 36	22 10 22 10 22 10 22 10	22 7 22 7	25 18 25 18 25 17 25 17	11 39 11 40	0 4 0 4 0 4 0 4
S 12 S 13 M14	23 9 23 13	15 14 2 19 55 0	2 6 16 0 49 17	38 3	8 15 12 1 9 15 33 1	51 17 20 50 17 20	1 40 1 42	5 47 5 44	1 19 1 19	15 59 15 58	2 182 18	23 1023 10	0 5 0 5	1 48 1 48	1 24 1 24	23 5623 57	4 36 4 36	22 1022 10	22 6 22 5	25 1725 17	11 42 11 43	0 5
T 15 W16 T 17	23 19 23 21	25 21 1 25 25 3	0n33 17 1 54 17 3 7 18 4 7 18	51 2 4 3 17 2 3	1 16 14 1 2 16 33 1	49 17 20 47 17 20 46 17 21 44 17 22	1 44 1 46 1 48 1 50	5 40 5 38	1 18 1 18	15 58 15 57 15 56 15 56	2 18 2 18	23 11 23 11 23 11 23 12	0 5 0 5 0 5 0 5	1 48 1 48	1 24 1 24	23 57 23 57 23 58 23 58	4 37 4 37	22 10 22 10 22 10	22 4 22 4	25 16 25 16 25 16 25 15	11 44 11 45	0 5 0 5 0 5 0 5
F 18 S 19	23 25	20 15 4	4 49 19 5 12 19	8 2 1	1 17 12 1	44 17 22 43 17 22 41 17 23	1 51 1 53	5 33	1 18	15 55 15 54	2 17	23 12 23 12 23 12	0 5	1 48	1 24		4 37		22 3	25 15 25 15 25 15	11 47	0 5 0 5
S 20 M21 T 22	23 28 23 28 23 28	4 46 5	5 15 20 5 0 20 4 29 20	26 1 3	8 18 7 1	39 17 25 38 17 26 36 17 28	1 54 1 56 1 57	-	1 17	15 54 15 53 15 53	2 17	23 12 23 13 23 13	0 5	1 47	1 24 1 24 1 24	-	4 38		22 2	25 15 25 14 25 14	11 49	0 5 0 5 0 5
W23 T 24 F 25		11 37 2	3 46 21 2 52 21 1 51 22	39 1	2 18 58 1	34 17 30 32 17 32 30 17 34	1 59 2 0 2 2	5 17	1 16	15 52 15 51 15 51	2 16	23 13 23 13 23 14	0 5 0 5 0 5	1 46	1 24 1 24 1 24	24 1	4 38	22 10 22 10 22 10	22 0	25 14 25 13 25 13	11 51	0 5 0 6 0 6
S 26 S 27	23 24	20 3 0	0 46 22 0 s21 22	24 0 3	9 19 29 1	28 17 37 26 17 40	2 3 2 4		1 16	15 50 15 50	2 16	23 14 23 14 23 14	0 5	1 46	1 24	24 2	4 38	22 10	21 59	25 12 25 12	11 53	0 6
M28 T 29 W30	23 20 23 17	24 51 1 25 35 2	1 25 23 2 26 23 3 s20 23	2 0 1	5 19 59 1 4 20 13 1	24 17 42 22 17 46 s20 17 s49	2 4 2 6 2 7 2s 8	5 6 5 3	1 16 1 15	15 50 15 49 15 s49	2 15 2 15	23 14 23 15 23 15 23 n15	0 6 0 6	1 45 1 45	1 24 1 24	24 3	4 39 4 39	22 10 22 10	21 58 21 58	25 12 25 12 25 11 25 s11	11 54 11 55	0 6 0 6 0 6 0s 6

Julian Day Number = 2370977.5, Delta T = 22.26 sec Ecliptic obliquity = 23°28'07, Nutation = -0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $21^{\circ}39'38$, Lahiri = $20^{\circ}46'38$ Greg. Calendar

JULY 1779 00:00 UT

Day	Sid.t	\odot	D	φ	φ	♂	4	ħ)ұ(¥	Р	r	Ω	Ç	ę,	Day
T 1	18 35 32	8953'23	2≈34	29∏16	9 Ⅱ 45	13 M .13	20 m 27	20°R47	20耳58	28 m 50	2°R51	11°R10	9 Ⅱ 49	21중 1	1833	T 1
F 2	18 39 29	9°50'34	14°26	19522	10°57	13°21	20°34	20 M 45	21° 2	28°50	2≈50	11 I I 6	9°46	21° 8	1°35	F 2
S 3	18 43 25	10°47'45	26°23	3°28	12° 9	13°31	20°42	20°43	21° 5	28°51	2°49	11° 1	9°43	21°15	1°36	S 3
S 4	18 47 22	11°44'55	8 ¥ 27	5°36	13°21	13°41	20°50	20°41	21° 9	28°52	2°48	10°56	9°39	21°21	1°38	S 4
M 5	18 51 18	12°42'07	20°41	7°45	14°32	13°51	20°58	20°39	21°12	28°53	2°46	10°53	9°36	21°28	1°40	M 5
T 6	18 55 15	13°39'18	3 Υ 9	9°55	15°44	14° 3	21° 6	20°37	21°15	28°53	2°45	10°51	9°33	21°35	1°42	T 6
W 7	18 59 12	14°36'30	15°55	12° 4	16°56	14°15	21°14	20°35	21°19	28°54	2°44	10°D51	9°30	21°41	1°43	W 7
T 8	19 3 8	15°33'42	29° 2	14°14	18° 8	14°28	21°22	20°33	21°22	28°55	2°42	10°51	9°27	21°48	1°45	T 8
F 9	19 7 5	16°30'55	12834	16°24	19°21	14°41	21°31	20°32	21°25	28°56	2°41	10°53	9°23	21°55	1°46	F 9
S 10	19 11 1	17°28'09	26°32	18°32	20°33	14°55	21°39	20°30	21°29	28°57	2°40	10°54	9°20	22° 2	1°48	S 10
S 11	19 14 58	18°25'23	10П56	20°41	21°45	15°10	21°48	20°29	21°32	28°58	2°38	10°R55	9°17	22° 8	1°49	S 11
M12	19 18 54	19°22'38	25°43	22°48	22°57	15°25	21°57	20°28	21°35	28°59	2°37	10°54	9°14	22°15	1°51	M12
T 13	19 22 51	20°19'53	109548	24°54	24° 9	15°41	22° 5	20°27	21°39	29° 0	2°36	10°51	9°11	22°22	1°52	T 13
W14	19 26 47	21°17'09	26° 3	26°59	25°22	15°58	22°14	20°25	21°42	29° 1	2°34	10°47	9°8	22°28	1°53	W14
T 15	19 30 44	22°14'24	11 Ω 16	29° 2	26°34	16°15	22°23	20°24	21°45	29° 2	2°33	10°42	9° 4	22°35	1°55	T 15
F 16	19 34 41	23°11'41	26°18	1 Ω 4	27°46	16°33	22°33	20°24	21°48	29° 3	2°32	10°35	9° 1	22°42	1°56	F 16
S 17	19 38 37	24° 8'57	11 Mp 0	3° 4	28°59	16°51	22°42	20°23	21°51	29° 4	2°30	10°29	8°58	22°48	1°57	S 17
S 18	19 42 34	25° 6'14	25°16	5° 3	09୍ତୀ 1	17°10	22°51	20°22	21°54	29° 6	2°29	10°25	8°55	22°55	1°58	S 18
M19	19 46 30	26° 3'31	9 ₾ 3	7° 0	1°24	17°29	23° 1	20°21	21°58	29° 7	2°27	10°22	8°52	23° 2	1°59	M19
T 20	19 50 27	27° 0'48	22°23	8°56	2°36	17°49	23°10	20°21	22° 1	29° 8	2°26	10°D20	8°48	23° 8	2° 0	T 20
W21	19 54 23	27°58'06	5 M .18	10°49	3°49	18°10	23°20	20°21	22° 4	29° 9	2°25	10°20	8°45	23°15	2° 1	W21
T 22	19 58 20	28°55'23	17°51	12°41	5° 1	18°31	23°30	20°20	22° 7	29°11	2°23	10°21	8°42	23°22	2° 2	T 22
F 23	20 2 16	29°52'42	0 才 7	14°32	6°14	18°52	23°39	20°20	22°10	29°12	2°22	10°23	8°39	23°28	2° 3	F 23
S 24	20 6 13	0 Ω 50'01	12°10	16°20	7°27	19°14	23°49	20°20	22°13	29°13	2°20	10°R23	8°36	23°35	2° 3	S 24
S 25	20 10 10	1°47'20	24° 6	18° 7	8°39	19°37	23°59	20°D20	22°16	29°15	2°19	10°22	8°33	23°42	2° 4	S 25
M26	20 14 6	2°44'40	5 궁 56	19°52	9°52	20° 0	24° 9	20°20	22°19	29°16	2°18	10°19	8°29	23°48	2° 5	M26
T 27	20 18 3	3°42'01	17°46	21°35	11° 5	20°23	24°20	20°20	22°21	29°17	2°16	10°13	8°26	23°55	2° 5	T 27
W28	20 21 59	4°39'22	29°36	23°17	12°18	20°47	24°30	20°20	22°24	29°19	2°15	10° 6	8°23	24° 2	2° 6	W28
T 29	20 25 56	5°36'45	11≈29	24°57	13°31	21°11	24°40	20°21	22°27	29°20	2°13	9°56	8°20	24° 9	2° 6	T 29
F 30	20 29 52	6°34'08	23°27	26°35	14°44	21°36	24°51	20°21	22°30	29°22	2°12	9°46	<u>8</u> °17	2 <u>4</u> °15	2° 7	F 30
S 31	20 33 49	$7\Omega 31'32$	5 ∺ 30	28 Ω 12	159556	22 M 1	25 mg 1	20 M 22	22 II 33	29 m 23	2≈11	9∏35	8 Ⅱ 14	24 궁 22	2 8 7	S 31

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T 1 F 2 S 3	23n10 23 6 23 2	20 58 4 39	23 57	0n19 20n40 0 29 20 52 0 39 21 4	1 s 1 8 1 7 s 5 2 1 1 5 1 7 5 6 1 1 3 1 8 (2 10	4n56 4 53 4 50		15 s48 15 48 15 48	2 14	23n15 23 15 23 16	0 6	1 44 1	23 24 s 23 24 23 24	4 4s39 4 4 39 5 4 39	22 8	21n57 21 56 21 56	25 10	11 56	0 s 6 0 6 0 6
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F 9 S 10	22 27 22 20			1 27 22 4 1 32 22 12	0 58 18 26 0 56 18 31		4 30 4 26		15 46 15 46		23 17 23 17			23 24 23 24	7 4 40 8 4 40		21 53 21 53		12 0 12 0	0 7 0 7
S 11 M12 T 13 W14 T 15 F 16 S 17	21 56 21 47 21 38	24 44 1 20 25 36 2 35 24 34 3 40 21 44 4 30 17 28 5 0	23 11 22 52 22 31 22 8 21 43	1 37 22 20 1 40 22 26 1 44 22 32 1 46 22 38 1 48 22 43 1 49 22 47 1 49 22 50	0 53 18 36 0 51 18 41 0 48 18 47 0 45 18 52 0 43 18 58 0 40 19 4 0 38 19 10	2 19 2 20 2 20 2 21 2 21	4 23 4 19 4 16 4 12 4 8 4 4 4 1	1 13 1 13 1 13 1 13 1 13	15 46 15 46 15 46	2 12 2 12 2 12 2 12 2 11 2 11	23 18 23 18	0 6 0 6 0 6 0 6 0 6	1 40 1 1 40 1 1 40 1 1 39 1 1 39 1	23 24 23 24 23 24 23 24 1 23 24 1 23 24 1 23 24 1	10 4 41 10 4 41	22 6 22 6 22 5 22 5 22 4	21 51 21 51 21 50 21 50	25 6 25 5 25 5 25 4	12 1 12 1 12 2 12 2 12 2 12 3 12 3	0 7 0 7 0 7 0 7 0 7 0 7 0 7
S 18 M19 T 20 W21 T 22 F 23 S 24	20 12	0 34 4 32 5 s 10 3 50 10 30 2 58 15 16 1 59 19 18 0 55	20 17 19 45 19 12 18 38 18 3	1 48 22 53 1 47 22 55 1 46 22 57 1 44 22 58 1 41 22 58 1 37 22 58 1 33 22 57	0 35 19 15 0 32 19 22 0 30 19 28 0 27 19 34 0 24 19 40 0 21 19 45 0 19 19 53	2 23 2 24 2 24 2 25 2 25	3 57 3 53 3 49 3 45 3 41 3 37 3 33	1 12 1 12 1 12 1 12 1 11	15 46 15 46 15 46 15 46	2 10 2 10 2 10 2 10 2 10 2 9	23 19 23 20	0 6 0 6 0 6 0 6 0 6	1 37 1 1 37 1 1 36 1 1 36 1 1 35 1	23 24 1 23 24 1 23 24 1 23 24 1 23 24 1 23 24 1 23 24 1	12 4 41 12 4 41 13 4 41 13 4 41 13 4 42	22 2 22 2 22 2 22 2 22 2 22 2	21 49 21 48 21 47 21 47 21 46 21 46	25 2 25 2 25 1 25 1 25 0	12 3 12 3 12 4 12 4 12 4 12 4 12 5	0 8 0 8 0 8 0 8 0 8 0 8
S 25 M26 T 27 W28 T 29 F 30 S 31	19 34 19 21 19 7 18 53 18 39	25 33 2 13 25 22 3 7 24 3 3 52 21 39 4 28 18 19 4 52	16 12 15 34 14 56 14 17 13 37	1 29 22 55 1 24 22 53 1 19 22 50 1 13 22 46 1 7 22 42 1 1 22 37 0n54 22n31	0 16 20 0 0 13 20 6 0 11 20 13 0 8 20 20 0 5 20 27 0 3 20 33 0n 0 20 840	2 26 2 26 2 27 2 27 2 27 2 27	3 29 3 25 3 20 3 16 3 12 3 8 3n 4	1 11 1 11 1 11 1 11 1 11		2 9 2 8 2 8 2 8 2 8	23 20	0 6 0 6 0 6 0 6 0 6 0 6 0 6	1 33 1 1 33 1 1 32 1 1 31 1 1 31 1	23 24 1 23 24 1 23 24 1 23 24 1 23 24 1 22 24 1 22 24 5	15 4 42 15 4 42 15 4 42 16 4 42 16 4 42	22 1 22 1 21 59 21 58 21 57	21 45 21 45 21 44 21 44 21 43 21 43 21 n42	24 59 24 58 24 57 24 57 24 56	12 5 12 5 12 5 12 5 12 5 12 5	0 8 0 8 0 8 0 8 0 9 0 9 0 9

Julian Day Number = 2371007.5, Delta T = 22.26 sec Ecliptic obliquity = $23^{\circ}28'07$, Nutation = - $0^{\circ}00'15$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $21^{\circ}39'42$, Lahiri = $20^{\circ}46'42$ Greg. Calendar

AUGUST 1779 00:00 UT

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S 1	20 37 45	8 Ω 28'57	17) (42	29 Ω 47	1795 9	22 M 27	25 Mp 12	20 M 22	22 II 35	29 m 25	2°R 9	9°R25	8 Ⅲ 10	24 궁 29	2 8 7	S 1
M 2	20 41 42	9°26'23	0 Υ 2	1 m 20	18°22	22°53	25°22	20°23	22°38	29°26	2≈ 8	9 Ⅱ 17	8° 7	24°35	2° 8	M 2
T 3	20 45 39	10°23'50	12°35	2°52	19°36	23°19	25°33	20°24	22°41	29°28	2° 7	9°12	8° 4	24°42	2° 8	T 3
W 4	20 49 35	11°21'19	25°21	4°21	20°49	23°46	25°44	20°25	22°43	29°30	2° 5	9° 8	8° 1	24°49	2° 8	W 4
T 5	20 53 32	12°18'49	8 8 26	5°50	22° 2	24°13	25°55	20°26	22°46	29°31	2° 4	9°D 7	7°58	24°55	2° 8	T 5
F 6	20 57 28	13°16'20	21°51	7°16	23°15	24°41	26° 6	20°27	22°49	29°33	2° 2	9° 7	7°54	25° 2	2°R 8	F 6
S 7	21 1 25	14°13'53	5 Ⅱ 38	8°41	24°28	25° 9	26°17	20°28	22°51	29°35	2° 1	9°R 8	7°51	25° 9	2° 8	S 7
S 8	21 5 21	15°11'27	19°51	10° 4	25°42	25°37	26°28	20°29	22°54	29°36	2° 0	9° 7	7°48	25°15	2° 8	S 8
M 9	21 9 18	16° 9'03	49526	11°25	26°55	26° 6	26°39	20°31	22°56	29°38	1°58	9° 5	7°45	25°22	2° 8	M 9
T 10	21 13 14	17° 6'40	19°21	12°44	28° 8	26°35	26°50	20°32	22°59	29°40	1°57	9° 1	7°42	25°29	2° 8	T 10
W11	21 17 11	18° 4'19	4Ω29	14° 2	29°22	27° 4	27° 2	20°34	23° 1	29°41	1°56	8°53	7°39	25°35	2° 7	W11
T 12	21 21 8	19° 1'59	19°40	15°17	0 Ω 35	27°34	27°13	20°36	23° 3	29°43	1°54	8°44	7°35	25°42	2° 7	T 12
F 13	21 25 4	19°59'40	4 m) 44	16°31	1°49	28° 4	27°25	20°37	23° 6	29°45	1°53	8°34	7°32	25°49	2° 7	F 13
S 14	21 29 1	20°57'22	19°31	17°42	3° 2	28°35	27°36	20°39	23° 8	29°47	1°52	8°24	7°29	25°56	2° 6	S 14
S 15	21 32 57	21°55'05	3 ≏ 53	18°51	4°16	29° 5	27°48	20°41	23°10	29°49	1°50	8°15	7°26	26° 2	2° 6	S 15
M16	21 36 54	22°52'50	17°47	19°59	5°29	29°36	27°59	20°43	23°12	29°51	1°49	8° 9	7°23	26° 9	2° 5	M16
T 17	21 40 50	23°50'35	1 m 11	21° 3	6°43	0 ≯ 8	28°11	20°46	23°15	29°52	1°48	8° 5	7°20	26°16	2° 5	T 17
W18	21 44 47	24°48'22	14° 8	22° 6	7°56	0°40	28°23	20°48	23°17	29°54	1°47	8° 3	7°16	26°22	2° 4	W18
T 19	21 48 43	25°46'10	26°42	23° 5	9°10	1°12	28°34	20°50	23°19	29°56	1°45	8°D 2	7°13	26°29	2° 3	T 19
F 20	21 52 40	26°43'59	8 ∡ 756	24° 2	10°24	1°44	28°46	20°53	23°21	29°58	1°44	8°R 3	7°10	26°36	2° 2	F 20
S 21	21 56 37	27°41'49	20°58	24°57	11°38	2°16	28°58	20°55	23°23	0 亚 0	1°43	8° 2	7° 7	26°42	2° 2	S 21
S 22	22 0 33	28°39'41	2 ප් 51	25°48	12°51	2°49	29°10	20°58	23°25	0° 2	1°42	8° 0	7° 4	26°49	2° 1	S 22
M23	22 4 30	29°37'34	14°40	26°36	14° 5	3°22	29°22	21° 1	23°27	0° 4	1°40	7°55	7° 0	26°56	2° 0	M23
T 24	22 8 26	0 m 35'28	26°29	27°20	15°19	3°56	29°34	21° 3	23°28	0° 6	1°39	7°48	6°57	27° 2	1°59	T 24
W25	22 12 23	1°33'23	8≈22	28° 2	16°33	4°30	29°46	21° 6	23°30	0° 8	1°38	7°38	6°54	27° 9	1°58	W25
T 26	22 16 19	2°31'20	20°21	28°39	17°47	5° 3	29°58	21° 9	23°32	0°10	1°37	7°25	6°51	27°16	1°57	T 26
F 27	22 20 16	3°29'19	2) 28	29°12	19° 1	5°38	0 ჲ 11	21°12	23°34	0°12	1°36	7°12	6°48	27°22	1°56	F 27
S 28	22 24 12	4°27'19	14°42	29°41	20°15	6°12	0°23	21°15	23°35	0°14	1°35	6°58	6°45	27°29	1°54	S 28
S 29	22 28 9	5°25'21	27° 6	0 ჲ 5	21°29	6°47	0°35	21°19	23°37	0°16	1°33	6°45	6°41	27°36	1°53	S 29
M30	22 32 6	6°23'24	9 Υ 40	0°25	22°43	7°22	0°47	21°22	23°39	0°18	1°32	6°35	6°38	27°43	1°52	M30
T 31	22 36 2	7 m 21'30	22 Y 24	0 ჲ 39	23 £ 57	7 .₹ 57	1☎ 0	21 M 25	23 Ⅱ 40	0 <u>ჲ</u> 20	1≈31	6 Ⅱ 27	6 Ⅱ 35	27 る 49	1 8 51	T 31

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S 1 M 2 T 3 W 4	18n10 17 55 17 39 17 24	9s29 5s 1 4 20 4 45 1n 4 4 15 6 32 3 31		39 22 18 0 5 20 32 22 10 0 8 21	1 2 28	2 55 1 10 2 50 1 10	15 50 2 7 15 50 2 7	23 22 0 6	1 29 1 22 1 28 1 22	24 17 4 42 24 18 4 42	-	41 24 54 41 24 54	
T 5 F 6 S 7	16 35	11 52 2 36 16 47 1 31 20 58 0 19	8 57 0 8 18 0s	15 21 53 0 13 21 7 21 43 0 16 21 2 21 33 0 18 21	22 2 29 29 2 29	2 37 1 10 2 33 1 10	15 52 2 6 15 52 2 5	23 22 0 6 23 23 0 6	1 26 1 22 1 26 1 22	24 19 4 43 24 19 4 43	21 51 21 21 51 21		12 5 0 9 12 5 0 9
S 8 M 9 T 10 W11 T 12 F 13 S 14	15 44 15 26 15 8	25 34 2 10	6 59 0 2 6 20 0 3 5 41 0 3 5 3 0 4 4 26 0 5	39 20 46 0 28 21 49 20 33 0 30 22	43 2 29 50 2 29 57 2 29 4 2 29 11 2 29	2 24 1 9 2 19 1 9 2 14 1 9 2 10 1 9 2 5 1 9	15 54 2 5 15 54 2 5 15 55 2 4 15 56 2 4 15 56 2 4	23 23 0 6 23 23 0 6	1 25 1 22 1 24 1 22 1 23 1 22 1 23 1 22 1 22 1 22 1 21 1 22 1 21 1 22	24 20 4 43 24 20 4 43 24 21 4 43 24 21 4 43 24 21 4 43	21 51 21 21 50 21 21 50 21 21 49 21 21 47 21 21 46 21 21 44 21	38 24 50 37 24 49 37 24 48 36 24 48 36 24 47	12 5 0 10 12 5 0 10 12 4 0 10 12 4 0 10 12 4 0 10
S 15 M16 T 17 W18 T 19 F 20 S 21	14 13 13 54 13 35 13 16 12 57 12 37 12 17	21 54 0s 5	1 28 1 4 0 56 1 5 0 24 2	29		1 51 1 9 1 46 1 9 1 42 1 9 1 37 1 8 1 32 1 8	15 59 2 3 15 59 2 3 16 0 2 3 16 1 2 2 16 2 2 2	23 24 0 6 23 24 0 6	1 19 1 22 1 18 1 22 1 18 1 22 1 17 1 22 1 16 1 22	24 22 4 43 24 23 4 43 24 23 4 43 24 23 4 43 24 24 4 43	21 43 21 21 42 21 21 41 21 21 41 21 21 41 21 21 41 21 21 40 21	34 24 45 34 24 44 33 24 44 33 24 43 32 24 42	12 3 0 10 12 3 0 10 12 3 0 10 12 2 0 10 12 2 0 11
S 22 M23 T 24 W25 T 26 F 27 S 28	11 57 11 37 11 17 10 56 10 35 10 14 9 53	25 39 3 1 24 35 3 46 22 24 4 22 19 15 4 47	1 5 2 3 1 31 2 4 1 57 2 5 2 20 3 2 41 3 1	39 17 29 0 54 23 49 17 9 0 56 23 58 16 49 0 58 23 8 16 28 1 0 23 17 16 7 1 1 23	17 2 28 23 2 28	1 18 1 8 1 13 1 8 1 8 1 8 1 3 1 8	16 5 2 2 16 6 2 1 16 7 2 1 16 8 2 1 16 9 2 1	23 25 0 6 23 25 0 6	1 13 1 22 1 12 1 22 1 11 1 22 1 10 1 22	24 25 4 43 24 25 4 43 24 25 4 43 24 25 4 43 24 26 4 43	21 40 21 21 39 21 21 38 21 21 37 21 21 35 21 21 32 21 21 30 21	30 24 40 30 24 39 29 24 38 29 24 37 28 24 37	12 1 0 11 12 0 0 11 12 0 0 11 12 0 0 11 11 59 0 11 11 59 0 11
S 29 M30 T 31	9 32 9 11 8n49	5 27 4 41 0 2 4 12 5n29 3 s30			53 2 27 59 2 27 s 5 2 s 27	0 43 1 8	16 12 2 0	23 25 0 6 23 25 0 6 23n25 0n 6		24 26 4 43	21 28 21 21 26 21 21n25 21n	27 24 34	11 57 0 12

Julian Day Number = 2371038.5, Delta T = 22.26 sec Ecliptic obliquity = $23^{\circ}28'08$, Nutation = - $0^{\circ}00'15$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $21^{\circ}39'46$, Lahiri = $20^{\circ}46'47$ Greg. Calendar

SEPTEMBER 1779 00:00 UT

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W 1	22 39 59	8 m) 19'37	5 8 20	0 <u>ჲ</u> 48	25 Ω 11	8 ∡ ³32	1 ≏ 12	21 M 29	23 Ⅱ 42	0 <u>ჲ</u> 22	1°R30	6°R22	6 Ⅱ 32	27 궁 56	1°R49	W 1
T 2	22 43 55	9°17'46	18°30	0°R51	26°25	9° 8	1°25	21°32	23°43	0°24	1≈29	6 Ⅱ 19	6°29	28° 3	1 8 48	T 2
F 3	22 47 52	10°15'58	1 II 55	0°48	27°40	9°44	1°37	21°36	23°45	0°27	1°28	6°19	6°26	28° 9	1°46	F 3
S 4	22 51 48	11°14'11	15°37	0°39	28°54	10°20	1°49	21°40	23°46	0°29	1°27	6°19	6°22	28°16	1°45	S 4
S 5	22 55 45	12°12'27	29°38	0°24	0 mg/8	10°56	2° 2	21°44	23°47	0°31	1°26	6°18	6°19	28°23	1°43	S 5
M 6	22 59 41	13°10'44	139558	0° 2	1°22	11°32	2°15	21°47	23°48	0°33	1°25	6°15	6°16	28°29	1°41	M 6
T 7	23 3 38	14° 9'04	28°35	29 m 33	2°37	12° 9	2°27	21°51	23°50	0°35	1°24	6°10	6°13	28°36	1°40	T 7
W 8	23 7 35	15° 7'26	13 £ 24	28°58	3°51	12°46	2°40	21°55	23°51	0°37	1°23	6° 3	6°10	28°43	1°38	W 8
T 9	23 11 31	16° 5'50	28°17	28°17	5° 6	13°23	2°52	22° 0	23°52	0°39	1°22	5°53	6° 6	28°50	1°36	T 9
F 10	23 15 28	17° 4'15	13 m y 8	27°30	6°20	14° 0	3° 5	22° 4	23°53	0°42	1°21	5°42	6° 3	28°56	1°34	F 10
S 11	23 19 24	18° 2'43	27°46	26°38	7°34	14°38	3°18	22° 8	23°54	0°44	1°21	5°31	6° 0	29° 3	1°32	S 11
S 12	23 23 21	19° 1'12	12 ॒ 3	25°41	8°49	15°16	3°31	22°12	23°55	0°46	1°20	5°21	5°57	29°10	1°30	S 12
M13	23 27 17	19°59'43	25°56	24°41	10° 3	15°54	3°43	22°17	23°56	0°48	1°19	5°13	5°54	29°16	1°28	M13
T 14	23 31 14	20°58'16	9 M 22	23°39	11°18	16°32	3°56	22°21	23°57	0°50	1°18	5° 8	5°51	29°23	1°26	T 14
W15	23 35 10	21°56'50	22°22	22°35	12°33	17°10	4° 9	22°26	23°58	0°53	1°17	5° 6	5°47	29°30	1°24	W15
T 16	23 39 7	22°55'27	4 ₹ 57	21°33	13°47	17°49	4°22	22°31	23°58	0°55	1°17	5°D 5	5°44	29°36	1°22	T 16
F 17	23 43 3	23°54'05	17°14	20°32	15° 2	18°27	4°35	22°35	23°59	0°57	1°16	5° 5	5°41	29°43	1°20	F 17
S 18	23 47 0	24°52'44	29°16	19°35	16°16	19° 6	4°48	22°40	24° 0	0°59	1°15	5°R 5	5°38	29°50	1°18	S 18
S 19	23 50 57	25°51'26	11 궁 10	18°43	17°31	19°45	5° 0	22°45	24° 0	1° 1	1°14	5° 4	5°35	29°56	1°16	S 19
M20	23 54 53	26°50'09	23° 0	17°57	18°46	20°24	5°13	22°50	24° 1	1° 4	1°14	5° 1	5°32	0≈ 3	1°14	M20
T 21	23 58 50	27°48'54	4≈52	17°19	20° 0	21° 4	5°26	22°55	24° 1	1° 6	1°13	4°55	5°28	0°10	1°11	T 21
W22	0 2 46	28°47'40	16°48	16°50	21°15	21°43	5°39	23° 0	24° 2	1° 8	1°13	4°47	5°25	0°17	1° 9	W22
T 23	0 6 43	29°46'29	28°53	16°30	22°30	22°23	5°52	23° 5	24° 2	1°10	1°12	4°37	5°22	0°23	1° 7	T 23
F 24	0 10 39	0 ₽ 45'19	11 米 9	16°D20	23°45	23° 2	6° 5	23°10	24° 2	1°13	1°11	4°25	5°19	0°30	1° 4	F 24
S 25	0 14 36	1°44'11	23°36	16°21	24°59	23°42	6°18	23°15	24° 3	1°15	1°11	4°14	5°16	0°37	1° 2	S 25
S 26	0 18 32	2°43'05	6 Υ 16	16°31	26°14	24°23	6°31	23°21	24° 3	1°17	1°10	4° 3	5°12	0°43	0°59	S 26
M27	0 22 29	3°42'01	19° 9	16°52	27°29	25° 3	6°44	23°26	24° 3	1°19	1°10	3°54	5° 9	0°50	0°57	M27
T 28	0 26 26	4°40'59	2812	17°22	28°44	25°43	6°57	23°32	24° 3	1°22	1° 9	3°47	5° 6	0°57	0°54	T 28
W29	0 30 22	5°40'00	15°27	18° 1	29°59	26°24	7°10	23°37	24° 3	1°24	1° 9	3°43	5° 3	1° 3	0°52	W29
T 30	0 34 19	6 ₽ 39'02	28 8 53	18 m 49	1 ≏ 14	27 ×7 4	7 ₽ 23	23M43	24°R 3	1 ≏ 26	1≈ 9	3°D42	5 I 0	1≈10	0 8 49	T 30

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W 1	8n27	10n52 2s36	3 s 5 5 3 s 5	6 14n14 1n 9	24s10 2s27	0n33 1n	8 1	6s14	1n59	23n25	0n 6	1n 6	1n22	24 s27	4 s43	21n24	21n26	24 s33	11n56	0 s12
T 2	8 6	15 52 1 33		1 13 50 1 11	-		7 1			23 26	0 6	1 5	1 22	24 27				24 32		0 12
F 3		20 11 0 23	4 5 4		24 21 2 26		7 1		1 59			1 4	1 22	24 27				24 31		0 12
S 4	7 22	23 30 0n49	4 5 4 1	0 13 1 1 13	24 26 2 26	0 18 1	7 1	6 17	1 59	23 26	0 6	1 4	1 22	24 28	4 43	21 23	21 24	24 30	11 54	0 12
S 5	6 59	25 28 2 0	4 2 4 1	3 12 36 1 14	24 31 2 26	0 13 1	7 1	6 19	1 58	23 26	0 6	1 3	1 22	24 28	4 43	21 23	21 23	24 29	11 54	0 12
M 6	6 37	25 48 3 5	3 54 4 1	5 12 11 1 16	24 36 2 25	0 8 1	7 1	6 20	1 58	23 26	0 6	1 2	1 22	24 28	4 43	21 23	21 23	24 28	11 53	0 12
T 7	6 15	24 22 3 59	3 43 4 1	5 11 45 1 17	24 40 2 25	0 3 1	7 1	6 21	1 58	23 26	0 6	1 1	1 22	24 28	4 43	21 22	21 22	24 28	11 52	0 12
W 8	5 52	21 15 4 38	3 28 4 1		24 45 2 25	0s 2 1	7 1	6 22				1 0	1 22	24 28				24 27		0 12
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F 10	5 7	11 13 4 58		6 10 26 1 20		0 12 1		6 25				0 58	1 22	24 29				24 25		0 13
S 11	4 44	5 9 4 39	2 19 3 5	9 9 59 1 21	24 57 2 23	0 17 1	7 1	6 26	1 57	23 26	0 6	0 58	1 22	24 29	4 43	21 15	21 20	24 24	11 50	0 13
S 12	4 21	1 s 4 4 2			25 1 2 23					23 26	0 6	0 57	1 22	24 29				24 23		0 13
M13	3 58	7 3 3 12				0 27 1						0 56	1 22	24 29				24 22	-	0 13
T 14	3 35	12 33 2 12				0 33 1		6 30	1 57		0 7	0 55	1 22	24 29				24 21		0 13
W15	-	17 18 1 7	0 1 3 1			0 38 1	- 1	6 32	1 56		0 7	0 54	1 22	24 30				24 20		0 13
T 16		21 8 0 1	0n39 2 5			0 43 1		6 33	1 56			0 53	1 22	24 30				24 19		0 13
F 17	2 25		1 19 2 4			0 48 1		6 34	1 56			0 52	1 22	24 30				24 18		0 13
S 18	2 2	25 33 2 5	1 58 2 2	1 6 44 1 25	25 21 2 21	0 53 1	7 1	6 36	1 56	23 27	0 7	0 51	1 22	24 30	4 43	21 10	21 16	24 18	11 44	0 13
S 19	1 39	25 59 2 59	2 36 2	2 6 15 1 25	-		7 1	6 37	1 56	23 27	0 7	0 51	1 22	24 30	-			24 17	-	0 13
M20	-	25 13 3 46	3 12 1 4			-	7 1	6 39	1 55		0 7	0 50	1 22	24 30	-			24 16		0 13
T 21		23 19 4 23	3 46 1 2		25 29 2 19	-		6 40	1 55		0 7	0 49	1 22		4 43			24 15		0 14
W22		20 24 4 48	- 1	2 4 47 1 26				6 41	1 55		0 7	0 48	1 22	24 31	4 43			24 14	-	0 14
T 23		16 35 5 1	4 41 0 4		25 33 2 18			6 43		23 27	0 7	0 47	1 22	24 31	4 43			24 13		0 14
F 24	0s18	12 1 5 1	5 2 0 2					6 44	1 55		0 7	0 46	1 22	24 31	4 43	-		24 12		0 14
S 25	0 41	6 55 4 46	5 19 0	5 3 18 1 26	25 36 2 17	1 29 1	7 1	6 46	1 54	23 27	0 7	0 45	1 22	24 31	4 43	21 1	21 12	24 11	11 38	0 14
S 26	1 5	1 26 4 17	5 31 0n1		25 37 2 17	_			-	23 27	0 7	0 44	1 22	24 31				24 10	11 37	0 14
M27	1 28	4n12 3 34	5 38 0 2	8 2 19 1 26			7 1	6 49			0 7	0 43	1 22	24 31		20 57			11 36	0 14
T 28	1 52	9 45 2 40		-				6 50			0 7	0 43	1 22	-		20 56			11 35	0 14
W29	2 15	14 57 1 36		-				6 52	1 54		0 7	0 42	1 22	_		20 55			11 34	0 14
T 30	2 s39	19n31 0s26	5n28 1n	8 0n48 1n25	25 s40 2 s14	1 s55 1n	7 1	6s53	1n54	23n27	0n 7	0n41	1n22	24 s 3 1	4 s42	20n55	21n 9	24s 6	11n33	0s14

 $\label{eq:Julian Day Number = 2371069.5, Delta T = 22.27 sec} \\ Ecliptic obliquity = 23°28'09, Nutation = -0°00'15, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 21°39'51, Lahiri = 20°46'51Greg. Calendar \\ \\$

OCTOBER 1779 00:00 UT

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F 1	0 38 15	7 ≏ 38'07	12Ⅱ29	19 m)45	2 ॒ 29	27 × 745	7 ≏ 36	23 M .48	24°R 3	1 ≏ 28	1°R 8	3 Ⅱ 42	4 Ⅱ 57	1≈17	0°R46	F 1
S 2	0 42 12	8°37'15	26°17	20°49	3°43	28°26	7°49	23°54	24 II 3	1°30	1≈ 8	3°43	4°53	1°24	0 8 44	S 2
S 3	0 46 8	9°36'25	109915	21°59	4°58	29° 7	8° 2	23°59	24° 3	1°33	1° 7	3°R43	4°50	1°30	0°41	S 3
M 4	0 50 5	10°35'37	24°25	23°14	6°13	29°48	8°15	24° 5	24° 3	1°35	1° 7	3°42	4°47	1°37	0°38	M 4
T 5	0 54 1	11°34'51	8 Ω 44	24°35	7°28	0 궁 30	8°28	24°11	24° 3	1°37	1° 7	3°40	4°44	1°44	0°36	T 5
W 6	0 57 58	12°34'08	23°10	26° 0	8°43	1°11	8°41	24°17	24° 2	1°39	1° 7	3°35	4°41	1°50	0°33	W 6
T 7	1 1 55	13°33'27	7 m ∤38	27°29	9°58	1°53	8°54	24°23	24° 2	1°41	1° 6	3°28	4°37	1°57	0°30	T 7
F 8	1 5 5 1	14°32'48	22° 2	29° 1	11°13	2°34	9° 7	24°29	24° 2	1°44	1° 6	3°20	4°34	2° 4	0°27	F 8
S 9	1 9 48	15°32'12	6 ₽ 17	0 ჲ 36	12°28	3°16	9°20	24°35	24° 1	1°46	1° 6	3°12	4°31	2°10	0°25	S 9
S 10	1 13 44	16°31'37	20°18	2°13	13°44	3°58	9°33	24°41	24° 1	1°48	1° 6	3° 5	4°28	2°17	0°22	S 10
M11	1 17 41	17°31'04	3ML58	3°52	14°59	4°40	9°46	24°47	24° 0	1°50	1° 6	2°59	4°25	2°24	0°19	M11
T 12	1 21 37	18°30'34	17°17	5°32	16°14	5°22	9°59	24°53	23°59	1°52	1° 6	2°56	4°22	2°31	0°16	T 12
W13	1 25 34	19°30'05	0 ∡ 14	7°13	17°29	6° 5	10°11	24°59	23°59	1°55	1° 6	2°D55	4°18	2°37	0°13	W13
T 14	1 29 30	20°29'39	12°49	8°55	18°44	6°47	10°24	25° 6	23°58	1°57	1°D 6	2°55	4°15	2°44	0°10	T 14
F 15	1 33 27	21°29'14	25° 7	10°37	19°59	7°29	10°37	25°12	23°57	1°59	1° 6	2°57	4°12	2°51	0° 7	F 15
S 16	1 37 24	22°28'51	7 ਰ 11	12°19	21°14	8°12	10°50	25°18	23°56	2° 1	1° 6	2°58	4° 9	2°57	0° 5	S 16
S 17	1 41 20	23°28'30	19° 7	14° 2	22°29	8°55	11° 3	25°25	23°56	2° 3	1° 6	2°R59	4° 6	3° 4	0° 2	S 17
M18	1 45 17	24°28'10	0≈58	15°45	23°44	9°38	11°16	25°31	23°55	2° 5	1° 6	2°59	4° 3	3°11	29 Υ 59	M18
T 19	1 49 13	25°27'52	12°51	17°27	25° 0	10°20	11°29	25°38	23°54	2° 7	1° 6	2°57	3°59	3°17	29°56	T 19
W20	1 53 10	26°27'36	24°49	19°10	26°15	11° 3	11°41	25°44	23°53	2° 9	1° 6	2°54	3°56	3°24	29°53	W20
T 21	1 57 6	27°27'22	6 ∺ 58	20°52	27°30	11°47	11°54	25°51	23°52	2°11	1° 6	2°49	3°53	3°31	29°50	T 21
F 22	2 1 3	28°27'09	19°19	22°34	28°45	12°30	12° 7	25°57	23°51	2°13	1° 6	2°44	3°50	3°38	29°47	F 22
S 23	2 4 59	29°26'58	1 Ƴ 57	24°15	0 m 0	13°13	12°20	26° 4	23°49	2°16	1° 7	2°38	3°47	3°44	29°44	S 23
S 24	2 8 56	0ML26'49	14°51	25°56	1°15	13°56	12°32	26°10	23°48	2°18	1° 7	2°32	3°43	3°51	29°41	S 24
M25	2 12 53	1°26'42	28° 2	27°37	2°31	14°40	12°45	26°17	23°47	2°20	1° 7	2°28	3°40	3°58	29°38	M25
T 26	2 16 49	2°26'37	11829	29°17	3°46	15°23	12°58	26°24	23°46	2°22	1° 8	2°24	3°37	4° 4	29°35	T 26
W27	2 20 46	3°26'33	25° 9	0 M .56	5° 1	16° 7	13°10	26°30	23°44	2°24	1° 8	2°23	3°34	4°11	29°32	W27
T 28	2 24 42	4°26'32	9 I 0	2°35	6°16	16°50	13°23	26°37	23°43	2°25	1° 8	2°D23	3°31	4°18	29°29	T 28
F 29	2 28 39	5°26'33	23° 0	4°14	7°32	17°34	13°35	26°44	23°42	2°27	1° 9	2°24	3°28	4°24	29°26	F 29
S 30	2 32 35	6°26'36	799 5	5°52	8°47	18°18	13°48	26°51	23°40	2°29	1° 9	2°25	3°24	4°31	29°24	S 30
S 31	2 36 32	7 M 26'42	219514	7 M .30	10 M 2	19중 2	14 ♀ 0	26M58	23耳39	2 ≏ 31	1≈10	2 Ⅱ 27	3 Ⅲ 21	4≈38	29 Υ 21	S 31

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S 3 M 4 T 5 W 6 T 7 F 8 S 9 S 10 M11	3 49 4 12 4 35 4 58 5 21 5 44 6 7 6 30 6 53	25 10 3 58 22 34 4 38 18 33 5 2 13 27 5 6 7 37 4 51 1 26 4 18 4 842 3 29	4 15 1 42 3 48 1 48 3 18 1 52 2 45 1 55 2 11 1 57 1 34 1 58 0 56 1 58	1 13 1 23 2 1 43 1 22 2 2 13 1 21 2 2 43 1 20 2 3 14 1 19 2 3 44 1 18 2 4 14 1 17 2		2 36 1 7	17 0 1 53 17 1 1 53 17 3 1 53 17 4 1 52 17 6 1 52 17 8 1 52 17 9 1 52	23 27 0 7 23 27 0 7	0 38 1 22 0 37 1 22 0 36 1 22 0 36 1 22 0 35 1 22 0 34 1 22 0 33 1 22 0 32 1 22 0 31 1 22	24 31 4 42 24 31 4 42	20 55 21 20 55 21 20 55 21 20 54 21 20 52 21 20 51 21 20 49 21 20 48 21 20 47 21	7 24 1	11 26 0 15 11 25 0 15 11 24 0 15 11 22 0 15
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S 17 M18 T 19 W20 T 21 F 22 S 23	9 8 9 30 9 52 10 13 10 35 10 56 11 18	24 16 4 24 21 39 4 52 18 6 5 8 13 46 5 10	4 43 1 37 5 27 1 32 6 10 1 27 6 54 1 21 7 37 1 16	8 11 1 7 2 8 40 1 6 2 9 9 1 4 2 9 37 1 3 2 10 5 1 1 2	25 13 2 3 25 9 2 2 25 5 2 2 25 1 2 1 24 57 2 0 24 52 1 59		17 22 1 51 17 24 1 51 17 26 1 51 17 27 1 50 17 29 1 50	23 27 0 7 23 27 0 7 23 27 0 7 23 27 0 7 23 27 0 7	0 26 1 22 0 26 1 22 0 25 1 22 0 24 1 22 0 23 1 22 0 22 1 22 0 22 1 22	24 31 4 42 24 31 4 41 24 31 4 41 24 31 4 41 24 30 4 41	20 47 21 20 47 20 20 47 20 20 46 20 20 45 20 20 44 20 20 43 20	58 23 45 58 23 44 57 23 43 57 23 41	11 14 0 16 11 13 0 16 11 11 0 16 11 10 0 16 11 9 0 16
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	13 41	18 26 0 40 22 25 0n36 25 8 1 51 26 16 2 59	11 47 0 38 12 27 0 32 13 6 0 25	11 29 0 56 1 11 56 0 54 1 12 23 0 52 1 12 50 0 50 2	24 36	4 0 1 7 4 5 1 7 4 10 1 8 4 15 1 8 4 20 1 8 4 25 1 8	17 34 1 50 17 35 1 50 17 37 1 50 17 39 1 50 17 40 1 50 17 42 1 49	23 27 0 7 23 26 0 7 23 26 0 7 23 26 0 7	0 21 1 22 0 20 1 22 0 19 1 22 0 18 1 22 0 18 1 22 0 17 1 22 0 16 1 23 0n15 1n23	24 30 4 41 24 29 4 41	20 42 20 20 41 20 20 40 20 20 40 20 20 40 20 20 40 20 20 40 20 20 40 20 20 41 20	55 23 38 54 23 37 54 23 35 53 23 34 52 23 33 52 23 32	11 6 0 17 11 5 0 17 11 4 0 17 11 3 0 17 11 1 0 17

Julian Day Number = 2371099.5, Delta T = 22.27 sec Ecliptic obliquity = $23^{\circ}28'09$, Nutation = - $0^{\circ}00'16$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $21^{\circ}39'55$, Lahiri = $20^{\circ}46'55$ Greg. Calendar

NOVEMBER 1779 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)/(并	Р	P.	ດ	Ç	, k	Day
M 1	2 40 28	8ML26'49	5 Ω 25	9 ™ 8	11 M .17	19 궁 46	14 ₽ 13	27 M 5	23°R37	2 ₽ 33	1≈10	2°R28	3耳18	4≈45	29°R18	M 1
T 2	2 44 25	9°26'59	19°36	10°44	12°33	20°30	14°25	27°11	23耳35	2°35	1°11	2 Ⅲ 27	3°15	4°51	29 Υ 15	T 2
W 3	2 48 22	10°27'10	3 m 44	12°21	13°48	21°14	14°37	27°18	23°34	2°37	1°11	2°26	3°12	4°58	29°12	W 3
T 4	2 52 18	11°27'24	17°48	13°57	15° 3	21°58	14°50	27°25	23°32	2°39	1°12	2°24	3° 9	5° 5	29° 9	T 4
F 5	2 56 15	12°27'39	1 <u>₽4</u> 4	15°33	16°18	22°42	15° 2	27°32	23°30	2°41	1°12	2°21	3° 5	5°11	29° 6	F 5
S 6	3 0 11	13°27'57	15°30	17° 8	17°34	23°27	15°14	27°39	23°29	2°42	1°13	2°18	3° 2	5°18	29° 3	S 6
S 7	3 4 8	14°28'16	29° 4	18°43	18°49	24°11	15°26	27°46	23°27	2°44	1°14	2°15	2°59	5°25	29° 1	S 7
M 8	3 8 4	15°28'38	12 M 23	20°18	20° 4	24°55	15°39	27°53	23°25	2°46	1°14	2°14	2°56	5°32	28°58	M 8
T 9	3 12 1	16°29'01	25°25	21°52	21°20	25°40	15°51	28° 0	23°23	2°48	1°15	2°13	2°53	5°38	28°55	T 9
W10	3 15 57	17°29'25	8 ~ 11	23°26	22°35	26°25	16° 3	28° 7	23°21	2°49	1°16	2°D13	2°49	5°45	28°52	W10
T 11	3 19 54	18°29'52	20°41	25° 0	23°50	27° 9	16°15	28°14	23°19	2°51	1°16	2°13	2°46	5°52	28°49	T 11
F 12	3 23 51	19°30'20	2 ප 56	26°33	25° 6	27°54	16°27	28°21	23°17	2°53	1°17	2°14	2°43	5°58	28°47	F 12
S 13	3 27 47	20°30'49	15° 0	28° 7	26°21	28°38	16°38	28°28	23°15	2°54	1°18	2°16	2°40	6° 5	28°44	S 13
S 14	3 31 44	21°31'19	26°56	29°40	27°36	29°23	16°50	28°35	23°13	2°56	1°19	2°17	2°37	6°12	28°41	S 14
M15	3 35 40	22°31'51	8 ≈ 47	1 才 12	28°51	0≈ 8	17° 2	28°43	23°11	2°58	1°20	2°18	2°34	6°19	28°39	M15
T 16	3 39 37	23°32'25	20°39	2°45	0 才 7	0°53	17°14	28°50	23° 9	2°59	1°21	2°R18	2°30	6°25	28°36	T 16
W17	3 43 33	24°32'59	2) 37	4°17	1°22	1°38	17°25	28°57	23° 7	3° 1	1°22	2°18	2°27	6°32	28°34	W17
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Julian Day Number = 2371130.5, Delta T = 22.27 sec Ecliptic obliquity = 23°28'09, Nutation = -0°00'16, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 21°39'59, Lahiri = 20°46'59Greg. Calendar

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Julian Day Number = 2371160.5, Delta T = 22.28 sec Ecliptic obliquity = $23^{\circ}28'09$, Nutation = - $0^{\circ}00'16$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $21^{\circ}40'03$, Lahiri = $20^{\circ}47'03$ Greg. Calendar