

Astrodienst Ephemeris Tables for the year 1633

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 1633 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(并	В	S.	v	Ç	ķ	Day
S 1	6 43 22	10 ට 58'59	11 m /28	20중21	6≈ 6	23 ~ 41	16°R18	5 ₹ 45	29 Mp 44	9 M .40	22°R59	23°R32	23 Y 11	09513	17 Y 33	S 1
S 2	6 47 19	12° 0'08	24° 3	22° 0	7°21	24°28	16 8 17	5°51	29°44	9°41	22859	23 Y 28	23° 8	0°19	17°33	S 2
M 3	6 51 15	13° 1'18	6 ♀ 54	23°39	8°36	25°15	16°15	5°57	29°44	9°43	22°58	23°27	23° 4	0°26	17°33	M 3
T 4	6 55 12	14° 2'28	20° 7	25°18	9°50	26° 2	16°14	6° 3	29°R44	9°44	22°57	23°27	23° 1	0°33	17°34	T 4
W 5	6 59 8	15° 3'37	3 M .43	26°57	11° 5	26°49	16°12	6°10	29°44	9°45	22°57	23°27	22°58	0°40	17°34	W 5
T 6	7 3 5	16° 4'47	17°47	28°35	12°19	27°36	16°12	6°16	29°44	9°46	22°56	23°25	22°55	0°46	17°34	T 6
F 7	7 7 1	17° 5'57	2 √ 17	0≈14	13°34	28°23	16°11	6°22	29°44	9°47	22°55	23°21	22°52	0°53	17°35	F 7
S 8	7 10 58	18° 7'06	17°10	1°52	14°49	29°11	16°10	6°27	29°44	9°48	22°55	23°14	22°48	1° 0	17°36	S 8
S 9	7 14 55	19° 8'16	2 පි 21	3°29	16° 3	29°58	16°10	6°33	29°44	9°49	22°54	23° 4	22°45	1° 6	17°36	S 9
M10	7 18 51	20° 9'25	17°39	5° 5	17°18	0≈45	16°D10	6°39	29°43	9°50	22°54	22°53	22°42	1°13	17°37	M10
T 11	7 22 48	21°10'33	2≈52	6°40	18°32	1°32	16°10	6°45	29°43	9°51	22°53	22°41	22°39	1°20	17°38	T 11
W12	7 26 44	22°11'41	17°51	8°14	19°46	2°19	16°10	6°51	29°42	9°52	22°53	22°30	22°36	1°27	17°39	W12
T 13	7 30 41	23°12'48	2 ∺ 25	9°45	21° 1	3° 7	16°11	6°56	29°42	9°53	22°52	22°21	22°33	1°33	17°40	T 13
F 14	7 34 37	24°13'55	16°30	11°14	22°15	3°54	16°12	7° 2	29°41	9°54	22°52	22°15	22°29	1°40	17°41	F 14
S 15	7 38 34	25°15'00	0 Υ 5	12°41	23°29	4°41	16°12	7° 7	29°41	9°55	22°51	22°11	22°26	1°47	17°42	S 15
S 16	7 42 30	26°16'04	13°11	14° 4	24°44	5°29	16°14	7°13	29°40	9°56	22°51	22°10	22°23	1°53	17°43	S 16
M17	7 46 27	27°17'07	25°52	15°23	25°58	6°16	16°15	7°18	29°39	9°57	22°50	22°10	22°20	2° 0	17°44	M17
T 18	7 50 24	28°18'10	8 8 13	16°38	27°12	7° 3	16°16	7°23	29°39	9°58	22°50	22°10	22°17	2° 7	17°45	T 18
W19	7 54 20	29°19'11	20°19	17°48	28°26	7°51	16°18	7°29	29°38	9°58	22°50	22° 8	22°14	2°14	17°46	W19
T 20	7 58 17	0≈20'11	2 I I15	18°51	29°40	8°38	16°20	7°34	29°37	9°59	22°49	22° 4	22°10	2°20	17°48	T 20
F 21	8 2 13	1°21'10	14° 6	19°47	0) € 54	9°25	16°22	7°39	29°36	10° 0	22°49	21°58	22° 7	2°27	17°49	F 21
S 22	8 6 10	2°22'08	25°56	20°36	2° 9	10°13	16°25	7°44	29°35	10° 0	22°49	21°48	22° 4	2°34	17°50	S 22
S 23	8 10 6	3°23'05	79547	21°16	3°23	11° 0	16°27	7°49	29°34	10° 1	22°48	21°36	22° 1	2°40	17°52	S 23
M24	8 14 3	4°24'01	19°43	21°46	4°36	11°48	16°30	7°54	29°33	10° 2	22°48	21°22	21°58	2°47	17°53	M24
T 25	8 17 59	5°24'56	1 Q 45	22° 7	5°50	12°35	16°33	7°59	29°32	10° 2	22°48	21° 8	21°54	2°54	17°55	T 25
W26	8 21 56	6°25'49	13°53	22°R17	7° 4	13°22	16°36	8° 4	29°30	10° 3	22°48	20°54	21°51	3° 1	17°57	W26
T 27	8 25 53	7°26'42	26° 9	22°15	8°18	14°10	16°39	8° 8	29°29	10° 3	22°47	20°42	21°48	3° 7	17°58	T 27
F 28	8 29 49	8°27'34	8 m 33	22° 3	9°32	14°57	16°43	8°13	29°28	10° 4	22°47	20°32	21°45	3°14	18° 0	F 28
S 29	8 33 46	9°28'24	21° 7	21°40	10°46	15°45	16°47	8°18	29°27	10° 4	22°47	20°26	21°42	3°21	18° 2	S 29
S 30	8 37 42	10°29'14	3 ≏ 51	21° 6	11°59	16°32	16°50	8°22	29°25	10° 4	22°47	20°22	21°39	3°27	18° 4	S 30
M31	8 41 39	11≈30'02	16 ≏ 49	20≈22	13 米 13	17≈20	16 8 55	8 ∡ 27	29 m 24	10 M 5	22847	20°D21	21 Y 35	3934	18 Y 6	M31

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
S 1	23 s 2	10n24	3n22	24s 3	2s 8	20 s23	1 s40	22 s28	1s 4	15n48	1 s 0	19s37	1n44	0n48	0n45	13 s 3	1n47	5n13 13s46	9n 9	9n 2	28n14	7n33	0n43
S 2	22 57	4 39		23 47	2 7			22 20	1 4		1 0		1 44	0 48	0 45		1 47	5 13 13 46		9 0		7 33	0 43
M 3	22 51	1 s26			2 6		1 40		1 5		0 59		1 44	0 48	0 45		1 47	5 13 13 46		8 59		7 33	0 43
T 4	22 45 22 38		0 18	23 10 22 49	2 4 2 2		1 40 1 40	-	1 5		0 59 0 59		1 44 1 44	0 48 0 48		13 4 13 5	1 47 1 47	5 13 13 45 5 13 13 45		8 58 8 57	28 15 28 15	7 34 7 34	0 42 0 42
T 6	22 38	19 10			1 59		1 40		1 5		0 58	-	1 44	0 48			1 47	5 13 13 45		8 56		7 34	0 42
F 7	-	23 45			1 56			21 35	1 5		0 58	-	1 44	0 48	-		1 47	5 13 13 45			28 16	7 34	0 42
S 8	22 16	26 54	4 3	21 36	1 52	18 1	1 40	21 26	1 5	15 47	0 58	19 44	1 44	0 48	0 46	13 5	1 47	5 13 13 44	9 3	8 53	28 16	7 34	0 42
S 9	22 7	28 9	4 41	21 9	1 47	17 39	1 40	21 16	1 5	15 47	0 58	19 44	1 44	0 48	0 46	13 6	1 47	5 13 13 44	8 59	8 52	28 16	7 34	0 42
M10	21 58	27 15	4 59	20 41	1 42	17 16	1 40	21 5	1 5	15 48	0 57	19 45	1 44	0 49	0 46	13 6	1 47	5 14 13 44	8 55	8 51	28 16	7 34	0 42
T 11		24 20			1 35			20 55	1 5		0 57		1 44	0 49	0 46		1 47	5 14 13 44		8 50		7 34	0 42
	21 39				1 28		1 39		1 5				1 44	0 49	-		1 47	5 14 13 43			28 17	7 35	0 41
T 13 F 14	21 29 21 19	-	3 50 2 56		1 20		1 39	20 34 20 23		15 49 15 49	0 56 0 56		1 44 1 44	0 49	0 46 0 46		1 47 1 47	5 14 13 43 5 14 13 43			28 17 28 17	7 35 7 35	0 41
	21 19	-	1 54		1 12			20 23		15 50	0 56		1 44	0 50			1 47	5 14 13 43			28 18	7 35	0 41
S 16	20 57			17 28		14 50	1 37			15 50			1 44	0 50			1 47	5 15 13 42			28 18	7 36	0 41
M17		10 19			0 40			19 48		15 51	0 55		1 44	0 50			1 48	5 15 13 42			28 18	7 36	0 41
T 18		15 36		16 20	0 28			19 36		15 52	0 55		1 45	0 51	0 46		1 48	5 15 13 42			28 18	7 36	0 41
W19	20 20	20 9	2 23	15 46	0 15	13 31	1 34	19 24	1 5	15 53	0 55	19 53	1 45	0 51	0 46	13 8	1 48	5 15 13 41	8 38	8 40	28 18	7 37	0 41
T 20	20 7	23 50	3 15	15 13	0 1	13 4	1 33	19 12		15 53		19 54	1 45	0 51	0 46	13 8	1 48	5 15 13 41	8 37	8 39	28 19	7 37	0 40
F 21		26 28		14 41		12 36	1 32			15 54			1 45	0 52			1 48	5 16 13 41	8 34		28 19	7 38	0 40
S 22	19 40	27 56	4 30	14 11	0 30	12 9	1 31	18 46	1 5	15 55	0 54	19 55	1 45	0 52	0 46	13 9	1 48	5 16 13 40	8 31	8 37	28 19	7 38	0 40
S 23	19 26			13 43		11 41		18 33		15 56		19 56	1 45	0 53	0 46	13 9	1 48	5 16 13 40			28 19	7 39	0 40
M24	19 12		-	13 17	1 3		1 28			15 57	0 53		1 45	0 53	0 46		1 48	5 16 13 40			28 19	7 39	0 40
T 25	18 57				1 21		1 27			15 58	0 53		1 45	0 54	0 46		1 48	5 16 13 40			28 19	7 39	0 40
W26 T 27	18 42	21 6 16 40			1 38		1 25	17 53 17 39		16 0 16 1	0 53 0 52		1 45 1 45	0 54 0 55	0 46 0 46		1 48 1 48	5 17 13 39 5 17 13 39			28 19 28 20	7 40 7 41	0 40 0 40
F 28		11 30			2 13		1 24			16 2			1 45	0 55			1 48	5 17 13 39			28 20	7 41	0 40
S 29	17 55			11 57	2 29			17 11		16 3			1 46	0 56			1 48	5 17 13 38			28 20	7 42	0 39
S 30	17 39	0s13	1 26	11 54	2 45	8 17	1 19	16 57	1 5	16 5	0 52	20 0	1 46	0 56	0 46	13 9	1 48	5 18 13 38	7 59	8 27	28 20	7 42	0 39
M31	17 s22	6 s 2 0	0n19	11 s54	2n59	7 s47	1 s 1 7	16 s42	1 s 5	16n 6	0 s 5 1	20 s 1	1n46	0n57	0n46	13 s 9	1n48	5n18 13s38	7n58	8n26	28n20	7n43	0n39

Julian Day Number = 2317501.5, Delta T = 55.60 sec Ecliptic obliquity = $23^{\circ}29'21$, Nutation = - $0^{\circ}00'06$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}37'05$, Lahiri = $18^{\circ}44'05$ Greg. Calendar

FEBRUARY 1633 GC 00:00 UT

Day	Sid.t	0)	ğ	φ	ð	4	ħ)∤(并	В	S.	v	Ç	ķ	Day
T 1	8 45 35	12≈30'50	OM 3	19°R29	14) (26	18 ≈ 7	16 8 59	8 ∡ 31	29°R22	10 M 5	22°R47	20 Υ 21	21 Y 32	39541	18 Y 8	T 1
W 2	8 49 32	13°31'36	13°35	18≈29	15°40	18°54	17° 3	8°35	29 Mp 21	10° 5	22847	20°R22	21°29	3°48	18°10	W 2
T 3	8 53 28	14°32'22	27°27	17°24	16°53	19°42	17° 8	8°39	29°19	10° 6	22°47	20°21	21°26	3°54	18°12	T 3
F 4	8 57 25	15°33'07	11 ~ 41	16°15	18° 7	20°29	17°13	8°44	29°18	10° 6	22°47	20°18	21°23	4° 1	18°14	F 4
S 5	9 1 22	16°33'51	26°14	15° 4	19°20	21°17	17°18	8°48	29°16	10° 6	22°D47	20°13	21°20	4° 8	18°16	S 5
S 6	9 5 18	17°34'34	11중 3	13°53	20°33	22° 4	17°23	8°52	29°14	10° 6	22°47	20° 5	21°16	4°15	18°18	S 6
M 7	9 9 15	18°35'15	26° 1	12°45	21°47	22°52	17°28	8°55	29°13	10° 6	22°47	19°56	21°13	4°21	18°20	M 7
T 8	9 13 11	19°35'56	10≈58	11°40	23° 0	23°39	17°34	8°59	29°11	10° 6	22°47	19°46	21°10	4°28	18°23	T 8
W 9	9 17 8	20°36'34	25°47	10°40	24°13	24°27	17°39	9° 3	29° 9	10° 6	22°47	19°37	21° 7	4°35	18°25	W 9
T 10	9 21 4	21°37'11	10) 17	9°46	25°26	25°14	17°45	9° 6	29° 7	10°R 6	22°47	19°29	21° 4	4°41	18°27	T 10
F 11	9 25 1	22°37'47	24°23	8°59	26°39	26° 1	17°51	9°10	29° 5	10° 6	22°47	19°24	21° 0	4°48	18°30	F 11
S 12	9 28 57	23°38'21	8 ℃ 2	8°19	27°52	26°49	17°58	9°13	29° 3	10° 6	22°47	19°21	20°57	4°55	18°32	S 12
S 13	9 32 54	24°38'53	21°14	7°47	29° 5	27°36	18° 4	9°17	29° 1	10° 6	22°47	19°D21	20°54	5° 2	18°35	S 13
M14	9 36 51	25°39'23	48 1	7°23	0 Υ 18	28°24	18°10	9°20	28°59	10° 6	22°47	19°21	20°51	5° 8	18°37	M14
T 15	9 40 47	26°39'51	16°27	7° 6	1°30	29°11	18°17	9°23	28°57	10° 6	22°48	19°23	20°48	5°15	18°40	T 15
W16	9 44 44	27°40'18	28°37	6°56	2°43	29°59	18°24	9°26	28°55	10° 6	22°48	19°R23	20°45	5°22	18°42	W16
T 17	9 48 40	28°40'42	10耳35	6°D54	3°56	0) 46	18°31	9°29	28°53	10° 6	22°48	19°22	20°41	5°28	18°45	T 17
F 18	9 52 37	29°41'05	22°27	6°58	5° 8	1°33	18°38	9°32	28°51	10° 5	22°48	19°19	20°38	5°35	18°48	F 18
S 19	9 56 33	0) 41′26	49518	7° 9	6°20	2°21	18°46	9°35	28°49	10° 5	22°49	19°14	20°35	5°42	18°51	S 19
S 20	10 030	1°41'44	16°11	7°26	7°33	3° 8	18°53	9°38	28°47	10° 5	22°49	19° 7	20°32	5°49	18°53	S 20
M21	10 4 26	2°42'01	28°11	7°48	8°45	3°55	19° 1	9°40	28°44	10° 4	22°49	18°59	20°29	5°55	18°56	M21
T 22	10 8 23	3°42'16	10 Ω 19	8°15	9°57	4°43	19° 8	9°43	28°42	10° 4	22°50	18°50	20°26	6° 2	18°59	T 22
W23	10 12 20	4°42'29	22°37	8°47	11° 9	5°30	19°16	9°45	28°40	10° 3	22°50	18°41	20°22	6° 9	19° 2	W23
T 24	10 16 16	5°42'40	5Mm, 7	9°24	12°21	6°17	19°24	9°48	28°38	10° 3	22°50	18°34	20°19	6°15	19° 5	T 24
F 25	10 20 13	6°42'50	17°48	10° 5	13°33	7° 4	19°32	9°50	28°35	10° 2	22°51	18°28	20°16	6°22	19° 8	F 25
S 26	10 24 9	7°42'57	0 ≏ 41	10°50	14°45	7°52	19°41	9°52	28°33	10° 2	22°51	18°25	20°13	6°29	19°11	S 26
S 27	10 28 6	8°43'03	13°46	11°38	15°57	8°39	19°49	9°54	28°30	10° 1	22°52	18°D23	20°10	6°36	19°14	S 27
M28	10 32 2	9) 43'07	27 ♀ 2	12≈30	17 Y 8	9 米 26	19858	9 ∡ 756	28 m 28	10 M 1	22 8 52	18 Y 23	20 Y 6	6 9542	19 Y 17	M28

Day	0	D		ζ	5	Q		С	3	2	4	1	ì)	ł(ļ		Р	n	Ω	ţ	ď	S
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T 1	17s 5	12 s19	0s51	11s58	3n12	7s17	1s15	16 s28	1s 5	16n 8	0 s 5 1	20s 2	1n46	0n58	0n46	13s 9	1n48	5n18 13s37	7n58	8n25	28n20	7n44	0n39
W 2	16 48	17 52	2 0	12 6	3 23	6 47	1 13	16 13	1 5	16 9	0 51	20 2	1 46	0 58	0 46	13 9	1 48	5 19 13 37	7 58	8 24	28 20	7 44	0 39
T 3	16 30	22 37	3 4	12 18	3 31	6 16	1 11	15 58	1 5	16 11	0 51	20 3	1 46	0 59	0 47	13 9	1 49	5 19 13 37	7 58	8 22	28 20	7 45	0 39
F 4	16 12	26 9	3 58	12 32	3 38	5 46	1 9	15 43	1 4	16 12	0 50	20 3	1 46	1 0	0 47	13 9	1 49	5 19 13 36	7 57	8 21	28 20	7 46	0 39
S 5	15 54	28 3	4 37	12 49	3 42	5 15	1 6	15 27	1 4	16 14	0 50	20 4	1 46	1 0	0 47	13 9	1 49	5 19 13 36	7 55	8 20	28 20	7 46	0 39
S 6	15 36	28 0	5 0	13 8	3 43	4 44	1 4	15 12	1 4	16 16	0 50	20 4	1 46	1 1	0 47	13 9	1 49	5 20 13 36	7 52	8 19	28 20	7 47	0 39
M 7	15 17	25 56	5 2	13 28	3 42	4 13	1 2	14 56	1 4	16 17	0 50	20 5	1 46	1 2	0 47	13 9	1 49	5 20 13 35	7 49	8 18	28 20	7 48	0 38
T 8	14 58	22 3	4 43	13 49	3 39	3 42	0 59	14 40	1 4	16 19	0 49	20 5	1 47	1 2	0 47	13 9	1 49	5 20 13 35	7 45	8 16	28 20	7 49	0 38
W 9	14 39	16 48	4 6	14 10	3 34	3 10	0 57	14 24	1 4	16 21	0 49	20 6	1 47	1 3	0 47	13 9	1 49	5 21 13 35	7 41	8 15	28 20	7 49	0 38
T 10	14 20	10 42	3 13	14 30	3 27	2 39	0 54	14 8	1 4	16 23	0 49	20 6	1 47	1 4	0 47	13 9	1 49	5 21 13 35	7 38	8 14	28 20	7 50	0 38
F 11	14 0	4 13	2 9	14 51	3 19	2 7	0 52	13 52	1 4	16 25	0 49	20 7	1 47	1 5	0 47	13 9	1 49	5 21 13 34	7 36	8 13	28 20	7 51	0 38
S 12	13 40	2n16	1 0	15 10	3 9	1 36	0 49	13 36	1 3	16 27	0 48	20 7	1 47	1 5	0 47	13 9	1 49	5 22 13 34	7 35	8 12	28 20	7 52	0 38
S 13	13 20	8 28	0n10	15 29	2 59	1 4	0 46	13 19	1 3	16 29	0 48	20 7	1 47	1 6	0 47	13 9	1 49	5 22 13 34	7 35	8 11	28 20	7 53	0 38
M14	13 0	14 7	1 18	15 46	2 47	0 33	0 43	13 2	1 3	16 31	0 48	20 8	1 47	1 7	0 47	13 9	1 49	5 22 13 33	7 36	8 9	28 20	7 54	0 38
T 15	12 39	19 2	2 20	16 2	2 35	0 1	0 41	12 46	1 3	16 33	0 48	20 8	1 47	1 8	0 47	13 9	1 49	5 23 13 33	7 36	8 8	28 20	7 54	0 38
W16	12 18	23 3	3 15	16 16	2 23	0n30	0 38	12 29	1 3	16 35	0 47	20 8	1 48	1 9	0 47	13 9	1 49	5 23 13 33	7 36	8 7	28 20	7 55	0 38
T 17	11 57	26 2	4 0	16 30	2 10	1 2	0 35	12 12	1 2	16 37	0 47	20 9	1 48	1 10	0 47	13 9	1 49	5 23 13 32	7 36	8 6	28 20	7 56	0 37
F 18	11 36	27 50	4 34	16 41	1 57	1 34	0 32	11 55	1 2	16 39	0 47	20 9	1 48	1 11	0 47	13 8	1 49	5 24 13 32	7 35	8 5	28 20	7 57	0 37
S 19	11 15	28 22	4 57	16 51	1 44	2 5	0 29	11 38	1 2	16 42	0 47	20 9	1 48	1 11	0 47	13 8	1 50	5 24 13 32	7 33	8 3	28 20	7 58	0 37
S 20	10 54	27 35	5 7	16 59	1 31	2 37	0 25	11 20	1 2	16 44	0 46	20 10	1 48	1 12	0 47	13 8	1 50	5 25 13 31	7 30	8 2	28 20	7 59	0 37
M21	10 32	25 31	5 3	17 6	1 18	3 8	0 22	11 3	1 2	16 46	0 46	20 10	1 48	1 13	0 47	13 8	1 50	5 25 13 31	7 27	8 1	28 20	8 0	0 37
T 22	10 10	22 17	4 46	17 11	1 5	3 40	0 19	10 45	1 1	16 49	0 46	20 10	1 48	1 14	0 47	13 8	1 50	5 25 13 31	7 24	8 0	28 20	8 1	0 37
W23	9 48	18 1	4 15	17 15	0 53	4 11	0 16	10 28	1 1	16 51	0 46	20 10	1 48	1 15	0 47	13 8	1 50	5 26 13 30	7 20	7 59	28 20	8 2	0 37
T 24	9 26	12 57	3 32	17 17	0 41	4 42	0 12	10 10	1 1	16 53	0 45	20 11	1 49	1 16	0 47	13 7	1 50	5 26 13 30	7 17	7 57	28 20	8 3	0 37
F 25	9 4	7 15	2 38	17 17	0 29	5 13	0 9	9 52	1 1	16 56	0 45	20 11	1 49	1 17	0 47	13 7	1 50	5 27 13 30	7 15	7 56	28 20	8 4	0 37
S 26	8 42	1 10	1 34	17 16	0 17	5 44	0 6	9 34	1 0	16 58	0 45	20 11	1 49	1 18	0 47	13 7	1 50	5 27 13 30	7 14	7 55	28 19	8 5	0 37
S 27	8 19	5s 3	0 25	17 14	0 6	6 15	0 2	9 16	1 0	17 1	0 45	20 11	1 49	1 19	0 47	13 7	1 50	5 27 13 29	7 13	7 54	28 19	8 6	0 36
M28	7 s56	11 s10	0 s47	17s10	0s 5	6n46	0n 1	8 s 5 8	1s 0	17n 3	0 s45	20s11	1n49	1n20	0n47	13 s 7	1n50	5n28 13 s29	7n13	7n53	28n19	8n 7	0n36

Julian Day Number = 2317532.5, Delta T = 55.53 sec

Ecliptic obliquity = $23^{\circ}29'22$, Nutation = - $0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}37'09$, Lahiri = $18^{\circ}44'09$ Greg. Calendar

MARCH 1633 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)Å(¥	Р	₽.	v	Ç	κ _O	Day
T 1	10 35 59	10) (43'09	10 M .30	13≈25	18 Y 20	10) 13	20 8 7	9 ∡ 758	28°R26	10°R 0	22 8 53	18 Y 25	20 ° 3	69549	19 Y 20	T 1
W 2	10 39 55	11°43'10	24°11	14°23	19°31	11° 0	20°15	10° 0	28 m 23	10 M 0	22°53	18°26	20° 0	6°56	19°23	W 2
T 3	10 43 52	12°43'10	8 √ 4	15°23	20°43	11°48	20°24	10° 2	28°21	9°59	22°54	18°R27	19°57	7° 2	19°26	T 3
F 4	10 47 49	13°43'07	22°11	16°26	21°54	12°35	20°33	10° 3	28°18	9°58	22°54	18°27	19°54	7° 9	19°30	F 4
S 5	10 51 45	14°43'04	6 云 28	17°32	23° 5	13°22	20°43	10° 5	28°16	9°57	22°55	18°25	19°51	7°16	19°33	S 5
S 6	10 55 42	15°42'58	20°54	18°40	24°16	14° 9	20°52	10° 6	28°13	9°57	22°56	18°22	19°47	7°23	19°36	S 6
M 7	10 59 38	16°42'51	5≈24	19°50	25°27	14°56	21° 2	10° 7	28°11	9°56	22°56	18°18	19°44	7°29	19°39	M 7
T 8	11 3 35	17°42'42	19°54	21° 2	26°38	15°43	21°11	10° 8	28° 8	9°55	22°57	18°13	19°41	7°36	19°43	T 8
W 9	11 731	18°42'31	4) (17	22°16	27°48	16°30	21°21	10°10	28° 6	9°54	22°58	18° 8	19°38	7°43	19°46	W 9
T 10	11 11 28	19°42'18	18°27	23°31	28°59	17°17	21°31	10°11	28° 3	9°53	22°58	18° 5	19°35	7°50	19°49	T 10
F 11	11 15 24	20°42'03	2 Υ 19	24°49	0 8 9	18° 4	21°41	10°11	28° 1	9°52	22°59	18° 3	19°32	7°56	19°53	F 11
S 12	11 19 21	21°41'46	15°50	26° 8	1°20	18°51	21°51	10°12	27°58	9°52	23° 0	18°D 2	19°28	8° 3	19°56	S 12
S 13	11 23 18	22°41'27	29° 0	27°29	2°30	19°38	22° 1	10°13	27°55	9°51	23° 0	18° 2	19°25	8°10	20° 0	S 13
M14	11 27 14	23°41'06	11848	28°51	3°40	20°25	22°11	10°13	27°53	9°50	23° 1	18° 3	19°22	8°16	20° 3	M14
T 15	11 31 11	24°40'43	24°16	0 ₩ 15	4°50	21°12	22°22	10°14	27°50	9°49	23° 2	18° 5	19°19	8°23	20° 7	T 15
W16	11 35 7	25°40'17	6 II 29	1°41	6° 0	21°58	22°32	10°14	27°48	9°48	23° 3	18° 7	19°16	8°30	20°10	W16
T 17	11 39 4	26°39'49	18°31	3° 8	7°10	22°45	22°43	10°15	27°45	9°46	23° 3	18° 8	19°12	8°37	20°14	T 17
F 18	11 43 0	27°39'19	09୍ଦ25	4°37	8°19	23°32	22°53	10°15	27°42	9°45	23° 4	18°R 8	19° 9	8°43	20°17	F 18
S 19	11 46 57	28°38'46	12°18	6° 7	9°29	24°19	23° 4	10°R15	27°40	9°44	23° 5	18° 7	19° 6	8°50	20°21	S 19
S 20	11 50 53	29°38'11	24°13	7°38	10°38	25° 5	23°15	10°15	27°37	9°43	23° 6	18° 6	19° 3	8°57	20°24	S 20
M21	11 54 50	0 Ƴ 37'34	6 Ω 14	9°11	11°47	25°52	23°26	10°15	27°35	9°42	23° 7	18° 3	19° 0	9° 3	20°28	M21
T 22	11 58 47	1°36'55	18°27	10°45	12°56	26°39	23°37	10°15	27°32	9°41	23° 8	18° 1	18°57	9°10	20°32	T 22
W23	12 2 43	2°36'13	0 m 53	12°20	14° 5	27°25	23°48	10°14	27°29	9°40	23° 9	17°58	18°53	9°17	20°35	W23
T 24	12 6 40	3°35'29	13°34	13°57	15°14	28°12	23°59	10°14	27°27	9°38	23°10	17°56	18°50	9°24	20°39	T 24
F 25	12 10 36	4°34'43	26°31	15°36	16°23	28°58	24°11	10°13	27°24	9°37	23°11	17°55	18°47	9°30	20°43	F 25
S 26	12 14 33	5°33'54	9 ≏ 45	17°15	17°31	29°45	24°22	10°13	27°22	9°36	23°11	17°54	18°44	9°37	20°46	S 26
S 27	12 18 29	6°33'04	23°14	18°56	18°39	0 Υ 31	24°34	10°12	27°19	9°35	23°12	17°D54	18°41	9°44	20°50	S 27
M28	12 22 26	7°32'12	6 M .56	20°39	19°47	1°18	24°45	10°11	27°16	9°33	23°13	17°55	18°37	9°50	20°54	M28
T 29	12 26 22	8°31'18	20°50	22°23	20°55	2° 4	24°57	10°10	27°14	9°32	23°14	17°55	18°34	9°57	20°57	T 29
W30	12 30 19	9°30'22	4 ₹ 52	24° 8	22° 3	2°50	25° 9	10° 9	27°11	9°31	23°15	17°56	18°31	10° 4	21° 1	W30
T 31	12 34 16	10 Y 29'24	19 ×7 0	25 \ 55	23 8 10	3 Ƴ 37	25 8 21	10 × 8	27 m 9	9 M 29	23 8 16	17 Ƴ 57	18 Ƴ 28	10911	21 ° 5	T 31

Day	0	D	ğ	Q	(3	2	ŀ	ħ	1) _į	(¥	Р	n	v	Ç	ķ
	decl	decl lat	decl la	at decl l	lat decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl lat	decl	decl	decl	decl lat
T 1 W 2 T 3	7 s34 7 11 6 48	21 48 3 2	16 57	0s15 7n16 0 25 7 47 0 35 8 17	0n 5 8s40 0 8 8 22 0 12 8 4	0 59	17n 6 17 8 17 11	0 s44 0 44 0 44	20 12	1n49 1 49 1 49	1n21 1 22 1 23	0n47 0 47 0 47	13 s 6 1 n50 13 6 1 50 13 6 1 50	5 29 13 28	7n14 7 14 7 15	7n51 7 50 7 49		8n 9 0n36 8 10 0 36 8 11 0 36
F 4 S 5	6 25	27 55 4 40 28 24 5 5	16 38 16 27	0 44 8 47 0 53 9 17	0 16 7 45 0 19 7 27	0 59 0 58	17 14 17 16	0 44 0 43	20 12 20 12	1 50 1 50	1 24 1 25	0 47 0 47	13 5 1 50 13 5 1 50	5 29 13 28 5 30 13 27	7 15 7 14	7 48 7 47	28 18 28 18	8 12 0 36 8 13 0 36
S 6 M 7 T 8 W 9	5 39 5 15 4 52 4 29	23 46 4 58 19 4 4 26	16 0 15 44	1 1 9 47 1 9 10 16 1 17 10 46 1 24 11 15	0 23 7 9 0 27 6 50 0 30 6 31 0 34 6 13	0 58 0 57		0 43 0 43	20 12 20 12 20 12 20 12	1 50 1 50 1 50 1 50	1 26 1 27 1 28 1 29	0 47 0 47 0 47 0 47	13 4 1 50	5 31 13 27 5 31 13 27	7 13 7 11 7 9 7 8	7 44	28 18 28 18 28 18 28 17	8 14 0 36 8 15 0 36 8 16 0 36 8 18 0 35
T 10 F 11 S 12	4 5 3 42 3 18	0 23 1 25 6n 4 0 12	14 49 14 27	1 31 11 43 1 37 12 12 1 43 12 40	0 38 5 54 0 42 5 36 0 45 5 17	0 56 0 56	17 30 17 33 17 35	0 42 0 42 0 42	20 12 20 12	1 50 1 50 1 51	1 30 1 31 1 32	0 47	13 3 1 51 13 3 1 51	5 32 13 26 5 33 13 25	7 6 7 5 7 5	7 41 7 39 7 38	28 17 28 17	8 19 0 35 8 20 0 35 8 21 0 35
S 13 M14 T 15 W16 T 17 F 18 S 19	_	17 25 2 7 21 53 3 6 25 18 3 56 27 32 4 34 28 29 5 0	13 41 13 15 12 49 12 21 11 52	1 49 13 8 1 54 13 36 1 59 14 3 2 3 14 30 2 7 14 57 2 10 15 23 2 13 15 49	0 49 4 58 0 53 4 39 0 57 4 20 1 1 4 2 1 4 3 43 1 8 3 24 1 12 3 5	0 56 0 55 0 55 0 55 0 54 0 54 0 53	17 41 17 44 17 47 17 50	0 42 0 42 0 41 0 41 0 41 0 41 0 41	20 12 20 12 20 12 20 12 20 12 20 12	1 51 1 51 1 51 1 51 1 51 1 51 1 51	1 33 1 34 1 35 1 36 1 37 1 38 1 39		13 3 1 51 13 2 1 51 13 2 1 51 13 2 1 51 13 1 1 51 13 1 1 51 13 0 1 51	5 33 13 25 5 34 13 25 5 34 13 25 5 35 13 24 5 35 13 24 5 36 13 24	7 5 7 6 7 6 7 7 7 7 7 7 7 7		28 16 28 16 28 16	8 22 0 35 8 24 0 35 8 25 0 35 8 26 0 35 8 27 0 35 8 29 0 35 8 30 0 35
S 20 M21 T 22 W23 T 24 F 25 S 26	0 9 0n15 0 39 1 2 1 26 1 49 2 13	23 35 4 59 19 38 4 32 14 47 3 51 9 13 2 58 3 9 1 55	10 16 9 42 9 6 8 30 7 52	2 16 16 15 2 18 16 40 2 19 17 5 2 20 17 29 2 21 17 53 2 21 18 17 2 21 18 40	1 16 2 46 1 20 2 27 1 23 2 8 1 27 1 49 1 31 1 30 1 35 1 11 1 39 0 53	0 53 0 52 0 52 0 51 0 51	18 4	0 40 0 40 0 40 0 40 0 40 0 40 0 39	20 11 20 11 20 11 20 11 20 11	1 52 1 52 1 52 1 52 1 52 1 52 1 52 1 52	1 40 1 41 1 42 1 43 1 44 1 45 1 46	0 47 0 47 0 47 0 47 0 47 0 47 0 47	13 0 1 51 13 0 1 51 12 59 1 51 12 59 1 51 12 58 1 51 12 58 1 51 12 57 1 51	5 38 13 22 5 39 13 22	7 7 7 6 7 5 7 4 7 3 7 3 7 2	7 28 7 27 7 26 7 25 7 24 7 22 7 21	28 14 28 14 28 13 28 13 28 13	8 31 0 34 8 33 0 34 8 34 0 34 8 35 0 34 8 36 0 34 8 38 0 34 8 39 0 34
S 27 M28 T 29 W30 T 31	3 46		5 50 5 8 4 24	2 20 19 3 2 19 19 25 2 17 19 47 2 15 20 8 2 s12 20n29	1 42 0 34 1 46 0 15 1 50 0n 4 1 53 0 23 1n57 0n42	0 50 0 49 0 49	18 19 18 22 18 25 18 28 18n31	0 39 0 39 0 39	20 10	1 52 1 53 1 53 1 53 1 n53	1 47 1 48 1 49 1 50 1n51	0 47	12 57 1 51 12 57 1 51 12 56 1 51 12 56 1 51 12 s55 1n51	5 40 13 21 5 40 13 21	7 2 7 2 7 3 7 3 7n 3	7 20 7 19 7 18 7 16 7n15	28 12 28 11	8 40 0 34 8 42 0 34 8 43 0 34 8 44 0 34 8n46 0n34

Julian Day Number = 2317560.5, Delta T = 55.48 sec Ecliptic obliquity = $23^{\circ}29'22$, Nutation = $-0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}37'13$, Lahiri = $18^{\circ}44'13$ Greg. Calendar

APRIL 1633 GC 00:00 UT

AI IV	L IUJ	uc													00.0	0.
Day	Sid.t	0)	ğ	φ	♂	4	ħ)∤(¥	В	S.	v	Ç	ę,	Day
F 1	12 38 12	11 Y 28'25	3 ਰ 12	27) (43	24 8 18	4 Υ 23	25 8 32	10°R 7	27°R 6	9°R28	23818	17 Υ 57	18 Υ 25	109517	21Υ 9	F 1
S 2	12 42 9	12°27'24	17°26	29°33	25°25	5° 9	25°44	10 ₰ 6	27 Mp 4	9 M 26	23°19	17°R57	18°22	10°24	21°12	S 2
S 3	12 46 5	13°26'21	1≈38	1 Y 24	26°32	5°55	25°56	10° 4	27° 1	9°25	23°20	17°57	18°18	10°31	21°16	S 3
M 4	12 50 2	14°25'16	15°46	3°17	27°39	6°41	26° 9	10° 3	26°59	9°24	23°21	17°57	18°15	10°38	21°20	M 4
T 5	12 53 58	15°24'10	29°48	5°11	28°45	7°27	26°21	10° 1	26°57	9°22	23°22	17°56	18°12	10°44	21°24	T 5
W 6	12 57 55	16°23'01	13) (42	7° 7	29°52	8°14	26°33	10° 0	26°54	9°21	23°23	17°56	18° 9	10°51	21°27	W 6
T 7	13 1 51	17°21'51	27°23	9° 4	0 Ⅱ 58	9° 0	26°45	9°58	26°52	9°19	23°24	17°56	18° 6	10°58	21°31	T 7
F 8	13 5 48	18°20'39	10 Y 52	11° 2	2° 4	9°46	26°58	9°56	26°49	9°18	23°25	17°56	18° 3	11° 4	21°35	F 8
S 9	13 9 44	19°19'25	24° 4	13° 2	3°10	10°31	27°10	9°54	26°47	9°16	23°26	17°56	17°59	11°11	21°39	S 9
S 10	13 13 41	20°18'09	7 岁 1	15° 3	4°15	11°17	27°23	9°52	26°45	9°15	23°27	17°56	17°56	11°18	21°43	S 10
M11	13 17 38	21°16'51	19°42	17° 6	5°21	12° 3	27°35	9°50	26°42	9°13	23°29	17°56	17°53	11°25	21°46	M11
T 12	13 21 34	22°15'31	2 II 7	19°10	6°26	12°49	27°48	9°48	26°40	9°12	23°30	17°55	17°50	11°31	21°50	T 12
W13	13 25 31	23°14'09	14°19	21°15	7°31	13°35	28° 1	9°45	26°38	9°10	23°31	17°54	17°47	11°38	21°54	W13
T 14	13 29 27	24°12'45	26°21	23°21	8°35	14°21	28°14	9°43	26°36	9° 9	23°32	17°54	17°43	11°45	21°58	T 14
F 15	13 33 24	25°11'18	89517	25°27	9°40	15° 6	28°26	9°41	26°33	9° 7	23°33	17°53	17°40	11°52	22° 1	F 15
S 16	13 37 20	26° 9'49	20° 9	27°35	10°44	15°52	28°39	9°38	26°31	9° 5	23°35	17°53	17°37	11°58	22° 5	S 16
S 17	13 41 17	27° 8'19	2 N 4	29°43	11°47	16°37	28°52	9°35	26°29	9° 4	23°36	17°D53	17°34	12° 5	22° 9	S 17
M18	13 45 13	28° 6'46	14° 6	1851	12°51	17°23	29° 5	9°33	26°27	9° 2	23°37	17°53	17°31	12°12	22°13	M18
T 19	13 49 10	29° 5'10	26°19	3°59	13°54	18° 8	29°18	9°30	26°25	9° 1	23°38	17°54	17°28	12°18	22°17	T 19
W20	13 53 7	0 8 3'33	8 m 47	6° 7	14°57	18°54	29°31	9°27	26°23	8°59	23°40	17°55	17°24	12°25	22°20	W20
T 21	13 57 3	1° 1'54	21°34	8°15	16° 0	19°39	29°44	9°24	26°21	8°57	23°41	17°56	17°21	12°32	22°24	T 21
F 22	14 1 0	2° 0'12	4 ≏ 42	10°21	17° 2	20°25	29°58	9°21	26°19	8°56	23°42	17°57	17°18	12°39	22°28	F 22
S 23	14 4 56	2°58'29	18°11	12°26	18° 4	21°10	0 Ⅱ 11	9°18	26°17	8°54	23°43	17°R57	17°15	12°45	22°32	S 23
S 24	14 8 53	3°56'43	2 m 1	14°30	19° 6	21°55	0°24	9°15	26°15	8°53	23°45	17°57	17°12	12°52	22°35	S 24
M25	14 12 49	4°54'56	16°10	16°32	20° 7	22°40	0°37	9°12	26°13	8°51	23°46	17°56	17° 9	12°59	22°39	M25
T 26	14 16 46	5°53'08	0 х 32	18°32	21° 8	23°25	0°51	9° 8	26°11	8°49	23°47	17°54	17° 5	13° 5	22°43	T 26
W27	14 20 42	6°51'17	15° 2	20°30	22° 9	24°10	1° 4	9° 5	26°10	8°48	23°49	17°51	17° 2	13°12	22°47	W27
T 28	14 24 39	7°49'26	29°35	22°25	23° 9	24°56	1°17	9° 2	26° 8	8°46	23°50	17°49	16°59	13°19	22°50	T 28
F 29	14 28 36	8°47'33	14중 4	24°17	24° 9	25°41	1°31	8°58	26° 6	8°44	23°51	17°47	16°56	13°26	22°54	F 29
S 30	14 32 32	9 8 45'38	28 궁 26	26 8 6	25 II 8	26 Y 25	1 Ⅱ 44	8 ∡ 755	26Mp 5	8 M .43	23 8 52	17 Ƴ 45	16 Y 53	13932	22 Υ 58	S 30

Day	0	D		ğ	9	2	d	7	2	+	ŧ	1);	j (4		Р	ß	v	ţ	ķ	
	decl	decl lat	de	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
F 1	4n33		s 6 2s5		9 20n50	-	1n 1		18n34		20s 9	1n53	1n52		12 s55	1n51	5n42 13 s21	7n 3		28n10	8n47	0n33
S 2	4 56	27 35 5	17 2	5 2	5 21 10	2 4	1 19	0 47	18 37	0 38	20 9	1 53	1 53	0 47	12 54	1 52	5 42 13 20	7 3	7 13	28 10	8 48	0 33
S 3	5 19				1 21 29		1 38		18 40	0 38		1 53	1 54		12 54	1 52	5 43 13 20		7 12		8 50	0 33
M 4 T 5	5 42	20 36 4 15 15 3	40 0 2 56 0n2			2 11 2 14	1 57 2 16	0 47 0 46		0 38 0 38		1 53 1 53	1 55 1 56			1 52 1 52	5 43 13 20 5 44 13 20	7 3	7 10 7 9	28 9 28 8	8 51 8 52	0 33
W 6	6 5 6 27		59 1 1		51 22 6 15 22 24	2 14	2 34			0 38		1 54	1 50	0 47		1 52	5 44 13 20	7 3	7 8	28 8	8 54	0 33
T 7	6 50			5 1 3		2 21	2 53		18 52	0 37		1 54	1 58		-	1 52	5 45 13 19	, ,	7 7	28 7	8 55	0 33
F 8	7 12	3n42 0	39 2 5	8 1 3	32 22 58	2 24	3 11	0 45	18 55	0 37	20 7	1 54	1 59	0 47	12 51	1 52	5 45 13 19	7 3	7 5	28 7	8 56	0 33
S 9	7 35	9 53 0	n34 3 5	2 1 2	24 23 15	2 27	3 30	0 44	18 58	0 37	20 6	1 54	2 0	0 47	12 51	1 52	5 45 13 19	7 3	7 4	28 6	8 58	0 33
S 10	7 57	15 31 1	44 4 4	6 1	17 23 30	2 30	3 48	0 44	19 1	0 37	20 6	1 54	2 1	0 47	12 50	1 52	5 46 13 19	7 3	7 3	28 6	8 59	0 33
M11	8 19	-	47 5 4		8 23 45	2 34	4 7	0 43	-	0 37		1 54	2 2			1 52	5 46 13 19		7 2		9 0	0 33
T 12	-	_	41 6 3	-	0 24 0	2 37	4 25	0 43				1 54	_			1 52	5 47 13 18		7 1	28 5	9 2	0 33
W13	9 3		24 7 3			2 39	4 43		19 10	0 37		1 54		0 47		1 52	5 47 13 18		6 59	-	9 3	0 33
T 14	-		54 8 2			2 42	5 2		19 13	0 36	-	1 54	2 4		-	1 52	5 48 13 18		6 58	_	9 4	0 32
F 15 S 16			12 9 2 16 10 1	-		2 45 2 48	5 20	0 41 0 41	19 16 19 19	0 36		1 54	2 5 2 6		-	1 52 1 52	5 48 13 18 5 49 13 18	7 2 7 2	6 57	28 3 28 3	9 6 9 7	0 32
							5 38					1 55							6 56			
S 17		24 43 5			-	2 50	5 56		19 22	0 36		1 55	2 7			1 52	5 49 13 18		6 55	-	9 9	0 32
M18 T 19	10 50			8 0	0 25 15	2 53	6 14		19 25	0 36	-	1 55 1 55	2 8		-	1 52	5 49 13 17		6 53	-	9 10	0 32
W20	-	16 39 4 11 23 3	8 13 20 13 5	2 0n		2 55 2 58	6 32 6 49		19 28 19 31	0 36 0 36	-	1 55	2 8 2 9		-	1 52 1 52	5 50 13 17 5 50 13 17	7 2 7 3		28 1 28 1	9 11 9 13	0 32
T 21	11 51		20 13 2			3 0	7 7		19 34	0 30	-	1 55	2 10		_	1 52	5 51 13 17	7 3	6 50	-	9 14	0 32
F 22	12 12		13 15 3		13 25 53	3 2	7 25		19 37	0 35			2 11			1 52	5 51 13 17			27 59	9 15	0 32
S 23	12 32		s 1 16 2		53 26 1	3 4	7 42		19 39	0 35			2 12		12 44	1 52	5 51 13 17		6 47		9 17	0 32
S 24	12. 52	13 24 1	17 17 1	4 1	4 26 8	3 6	8 0	0.36	19 42	0 35	19 59	1 55	2 12	0 47	12 43	1 52	5 52 13 17	7 3	6 46	27 58	9 18	0 32
M25	13 11	-		0 1		3 8	8 17	0 36	-	0 35		1 55	2 13	0 47		1 52	5 52 13 16			27 58	9 19	0 32
T 26	13 31		34 18 4	3 1 2		3 10	8 34	0 35		0 35		1 55	2 14	0 46	_	1 52	5 53 13 16		6 44		9 21	0 32
W27	13 50	27 2 4	25 19 2	4 1 3	32 26 27	3 12	8 51	0 35	19 51	0 35	19 58	1 55	2 14	0 46	12 42	1 52	5 53 13 16	7 1	6 42	27 56	9 22	0 32
T 28	14 9	28 28 4	59 20	2 1 4	11 26 32	3 13	9 9	0 34	19 54	0 34	19 57	1 55	2 15	0 46	12 41	1 52	5 54 13 16	7 0	6 41	27 56	9 23	0 31
F 29	14 28	27 57 5	14 20 3	9 1 4	19 26 36	3 14	9 26	0 33	19 57	0 34	19 56	1 55	2 16	0 46	12 41	1 52	5 54 13 16	6 59	6 40	27 55	9 24	0 31
S 30	14n46	25 s34 5	s 9 21n1	2 1n5	57 26n40	3n16	9n42	0 s33	20n 0	0 s34	19s56	1n55	2n16	0n46	12 s40	1n52	5n54 13s16	6n59	6n39	27n55	9n26	0n31

 $\label{eq:Julian Day Number = 2317591.5, Delta T = 55.41 sec} \\ Ecliptic obliquity = 23°29'22, Nutation = -0°00'06, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°37'17, Lahiri = 18°44'18Greg. Calendar$

MAY 1633 GC 00:00 UT

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Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)∤(\	Р	₽.	v	Ç	Ŗ	Day
S 1	14 36 29	10843'42	12≈36	27 8 52	26耳 7	27 Y 10	1Д58	8°R51	26°R 3	8°R41	23854	17°D45	16 Y 49	13939	23 ° 1	S 1
M 2	14 40 25	11°41'44	26°34	29°35	27° 6	27°55	2°11	8 ∡ 747	26Mp 1	8 M .40	23°55	17 Y 46	16°46	13°46	23° 5	M 2
T 3	14 44 22	12°39'46	10) 17	1 I I15	28° 4	28°40	2°25	8°44	26° 0	8°38	23°56	17°47	16°43	13°53	23° 9	T 3
W 4	14 48 18	13°37'45	23°47	2°50	29° 2	29°25	2°39	8°40	25°58	8°36	23°58	17°48	16°40	13°59	23°12	W 4
T 5	14 52 15	14°35'44	7 Υ 4	4°23	29°59	0 8 9	2°52	8°36	25°57	8°35	23°59	17°50	16°37	14° 6	23°16	T 5
F 6	14 56 11	15°33'41	20° 7	5°51	0956	0°54	3° 6	8°32	25°55	8°33	24° 0	17°R50	16°34	14°13	23°19	F 6
S 7	15 0 8	16°31'36	2 8 58	7°16	1°52	1°39	3°20	8°28	25°54	8°31	24° 2	17°49	16°30	14°19	23°23	S 7
S 8	15 4 5	17°29'31	15°37	8°37	2°48	2°23	3°33	8°24	25°53	8°30	24° 3	17°47	16°27	14°26	23°27	S 8
M 9	15 8 1	18°27'23	28° 4	9°54	3°44	3° 8	3°47	8°20	25°52	8°28	24° 4	17°43	16°24	14°33	23°30	M 9
T 10	15 11 58	19°25'14	10 Ⅱ 21	11° 7	4°38	3°52	4° 1	8°16	25°50	8°27	24° 6	17°38	16°21	14°40	23°34	T 10
W11	15 15 54	20°23'04	22°28	12°16	5°33	4°37	4°15	8°12	25°49	8°25	24° 7	17°32	16°18	14°46	23°37	W11
T 12	15 19 51	21°20'52	49527	13°22	6°26	5°21	4°28	8° 8	25°48	8°23	24° 9	17°26	16°15	14°53	23°41	T 12
F 13	15 23 47	22°18'39	16°21	14°23	7°19	6° 5	4°42	8° 4	25°47	8°22	24°10	17°21	16°11	15° 0	23°44	F 13
S 14	15 27 44	23°16'24	28°13	15°19	8°12	6°49	4°56	8° 0	25°46	8°20	24°11	17°17	16° 8	15° 7	23°47	S 14
S 15	15 31 41	24°14'07	10 Ω 7	16°12	9° 4	7°34	5°10	7°56	25°45	8°19	24°13	17°14	16° 5	15°13	23°51	S 15
M16	15 35 37	25°11'49	22° 7	17° 0	9°55	8°18	5°24	7°51	25°44	8°17	24°14	17°D13	16° 2	15°20	23°54	M16
T 17	15 39 34	26° 9'29	4 m) 17	17°44	10°45	9° 2	5°38	7°47	25°43	8°16	24°15	17°13	15°59	15°27	23°58	T 17
W18	15 43 30	27° 7'07	16°43	18°24	11°35	9°46	5°51	7°43	25°42	8°14	24°17	17°15	15°55	15°33	24° 1	W18
T 19	15 47 27	28° 4'44	29°30	18°59	12°24	10°30	6° 5	7°38	25°41	8°13	24°18	17°16	15°52	15°40	24° 4	T 19
F 20	15 51 23	29° 2'20	12 ≏ 39	19°29	13°12	11°14	6°19	7°34	25°41	8°11	24°19	17°R17	15°49	15°47	24° 7	F 20
S 21	15 55 20	29°59'54	26°15	19°55	13°59	11°57	6°33	7°30	25°40	8°10	24°21	17°17	15°46	15°54	24°11	S 21
S 22	15 59 16	0Д57'26	10 M .18	20°16	14°46	12°41	6°47	7°25	25°39	8° 8	24°22	17°15	15°43	16° 0	24°14	S 22
M23	16 3 13	1°54'58	24°44	20°32	15°31	13°25	7° 1	7°21	25°39	8° 7	24°23	17°11	15°40	16° 7	24°17	M23
T 24	16 7 9	2°52'28	9 ₹ 29	20°44	16°16	14° 8	7°15	7°16	25°38	8° 5	24°25	17° 5	15°36	16°14	24°20	T 24
W25	16 11 6	3°49'58	24°25	20°51	17° 0	14°52	7°29	7°12	25°38	8° 4	24°26	16°58	15°33	16°20	24°23	W25
T 26	16 15 3	4°47'26	9 궁 24	20°R53	17°43	15°36	7°43	7° 8	25°37	8° 2	24°28	16°51	15°30	16°27	24°26	T 26
F 27	16 18 59	5°44'54	24°15	20°51	18°25	16°19	7°57	7° 3	25°37	8° 1	24°29	16°45	15°27	16°34	24°30	F 27
S 28	16 22 56	6°42'20	8≈53	20°44	19° 5	17° 3	8°11	6°59	25°37	7°59	24°30	16°40	15°24	16°41	24°33	S 28
S 29	16 26 52	7°39'46	23°12	20°33	19°45	17°46	8°25	6°54	25°36	7°58	24°32	16°38	15°21	16°47	24°36	S 29
M30	16 30 49	8°37'12	7 ∺ 10	20°18	20°24	18°29	8°39	6°50	25°36	7°57	24°33	16°D37	15°17	16°54	24°39	M30
T 31	16 34 45	9 Ⅲ 34'36	20) (47	19∏59	2199 1	19 8 13	8 Ⅱ 53	6 ₮ 45	25 m 36	7 M 55	24 8 34	16 Y 37	15 Y 14	1799 1	24 Y 41	T 31

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S 1	15n 4	21 s37	4 s46	21n44	2n 3	26n43	3n17	9n59	0 s32	20n 2	0 s34	19s55	1n55	2n17	0n46	12 s40	1n52	5n55	13 s16	6n59	6n37	27n54	9n27	0n31
M 2	15 22	16 32	4 5	22 12	2 9	26 45	3 18	10 16	0 32	20 5	0 34	19 55	1 55	2 18	0 46	12 39	1 52	5 55	13 16	6 59	6 36	27 53	9 28	0 31
T 3	15 40	10 41	3 12	22 39	2 14	26 47	3 19	10 32	0 31	20 8	0 34	19 54	1 56	2 18	0 46	12 38	1 52	5 56	13 16	6 59	6 35	27 53	9 30	0 31
W 4	15 58	4 26	2 8	23 2	2 19	26 49	3 20	10 49	0 31	20 11	0 34	19 53	1 56	2 19	0 46	12 38		5 56	13 16	7 0	6 34	27 52	9 31	0 31
T 5	16 15	1n55	0 59	23 24	2 22	26 50	3 20	11 5	0 30	20 14	0 34	19 53	1 56	2 19	0 46	12 37	1 52	5 56	13 16	7 1	6 33	27 51	9 32	0 31
F 6	16 32	8 4	0n13	23 43	2 25	26 50	3 21	11 21	0 29	20 16	0 34	19 52	1 56	2 20	0 46	12 37	1 52	5 57	13 15	7 1	6 31	27 50	9 34	0 31
S 7	16 49	13 49	1 22	23 59	2 27	26 50	3 21	11 37	0 29	20 19	0 33	19 52	1 56	2 20	0 46	12 36	1 52	5 57	13 15	7 0	6 30	27 50	9 35	0 31
S 8	17 5	18 53	2 26	24 13	2 28	26 49	3 21	11 53	0 28	20 22	0 33	19 51	1 56	2 21	0 46	12 36	1 52	5 57	13 15	6 59	6 29	27 49	9 36	0 31
M 9	17 21	23 3	3 22	24 25	2 28	26 47	3 21	12 9	0 28	20 24	0 33	19 50	1 56	2 21	0 46	12 35	1 52	5 58	13 15	6 58	6 28	27 48	9 37	0 31
T 10	17 37	26 8	4 8	24 35	2 27	26 45	3 21	12 25	0 27	20 27	0 33	19 50	1 56	2 22	0 46	12 35	1 52	5 58	13 15	6 56	6 26	27 48	9 39	0 31
W11	17 53	27 58	4 42	24 43	2 26	26 43	3 21	12 40	0 26	20 30	0 33	19 49	1 56	2 22	0 46	12 34	1 52	5 59	13 15	6 54	6 25	27 47	9 40	0 31
T 12	18 8	28 28	5 3	24 49	2 23	26 40	3 20	12 56	0 26	20 32	0 33	19 48	1 56	2 22	0 46	12 34	1 52	5 59	13 15	6 52	6 24	27 46	9 41	0 31
F 13	18 23	27 37	5 11	24 53	2 19	26 36	3 20	13 11	0 25	20 35	0 33	19 48	1 56	2 23	0 46	12 33	1 52	5 59	13 15	6 50	6 23	27 45	9 42	0 30
S 14	18 38	25 32	5 5	24 55	2 15	26 33	3 19	13 26	0 25	20 38	0 33	19 47	1 56	2 23	0 46	12 33	1 52	6 0	13 15	6 48	6 22	27 45	9 43	0 30
S 15	18 52	22 20	4 46	24 55	2 9	26 28	3 18	13 41	0 24	20 40	0 33	19 46	1 56	2 24	0 46	12 32	1 52	6 0	13 15	6 47	6 20	27 44	9 45	0 30
M16	19 6	18 11	4 15	24 53	2 3	26 23	3 17	13 56	0 23	20 43	0 32	19 46	1 56	2 24	0 46	12 32	1 52	6 0	13 15	6 47	6 19	27 43	9 46	0 30
T 17	19 20	13 15	3 32	24 50	1 55	26 18	3 15	14 11	0 23	20 45	0 32	19 45	1 56	2 24	0 46	12 32	1 52	6 1	13 15	6 47	6 18	27 42	9 47	0 30
W18	19 33	7 41	2 38	24 46	1 47	26 12	3 14	14 25	0 22	20 48	0 32	19 44	1 56	2 25	0 46	12 31	1 52	6 1	13 15	6 47	6 17	27 41	9 48	0 30
T 19	19 46	1 39	1 35	24 39	1 38	26 5	3 12	14 40	0 21	20 51	0 32	19 44	1 56	2 25	0 46	12 31	1 52	6 1	13 15	6 48	6 15	27 41	9 49	0 30
F 20	19 59	4s38	0 25	24 32	1 28	25 59	3 10	14 54	0 21	20 53	0 32	19 43	1 56	2 25	0 46	12 30	1 52	6 2	13 15	6 48	6 14	27 40	9 50	0 30
S 21	20 12	10 54	0 s 48	24 23	1 16	25 52	3 7	15 8	0 20	20 55	0 32	19 42	1 56	2 25	0 46	12 30	1 52	6 2	13 15	6 48	6 13	27 39	9 52	0 30
S 22	20 24	16 51	2 1	24 12	1 4	25 44	3 5	15 22	0 20	20 58	0 32	19 42	1 55	2 26	0 46	12 29	1 52	6 2	13 15	6 47	6 12	27 38	9 53	0 30
M23	20 35	22 2	3 8	24 1	0 52	25 36	3 2	15 36	0 19	21 0	0 32	19 41	1 55	2 26	0 45	12 29	1 52	6 3	13 15	6 46	6 11	27 37	9 54	0 30
T 24	20 47	25 56	4 4	23 48	0 38	25 28	2 59	15 50	0 18	21 3	0 32	19 40	1 55	2 26	0 45	12 28	1 52	6 3	13 15	6 44	6 9	27 36	9 55	0 30
W25	20 58	28 6	4 44	23 34	0 24	25 19	2 56	16 3	0 18	21 5	0 32	19 40	1 55	2 26	0 45	12 28	1 52	6 3	13 15	6 41	6 8	27 36	9 56	0 30
T 26	21 8	28 13	5 5	23 19	0 8	25 10	2 53	16 16	0 17	21 8		19 39	1 55	2 26	0 45	12 27		6 3	13 15	6 38	6 7	27 35	9 57	0 30
F 27		26 18		23 3		25 1	2 49	16 30		21 10		19 38	1 55	2 26		12 27			13 15	6 36		27 34	9 58	0 30
S 28	21 28	22 39	4 45	22 46	0 23	24 51	2 45	16 43	0 16	21 12	0 31	19 38	1 55	2 26	0 45	12 27	1 51	6 4	13 15	6 34	6 4	27 33	9 59	0 30
S 29	21 38	17 42	4 7	22 29	0 40	24 41	2 41	16 55	0 15	21 14	0 31	19 37	1 55	2 26	0 45	12 26	1 51	6 4	13 15	6 33	6 3	27 32	10 0	0 30
M30	21 47	11 55	3 16	22 11	0 57	24 31	2 37	17 8	0 14	21 17	0 31	19 36	1 55	2 26	0 45	12 26	1 51	6 5	13 15	6 33	6 2	27 31	10 1	0 29
T 31	21n56	5 s43	2s14	21n52	1 s 1 4	24n21	2n32	17n21	0s14	21n19	0 s31	19s36	1n55	2n27	0n45	12 s25	1n51	6n 5	$13\mathrm{s}15$	6n33	6n 1	27n30	10n 2	0n29

Julian Day Number = 2317621.5, Delta T = 55.35 sec Ecliptic obliquity = $23^{\circ}29'22$, Nutation = $-0^{\circ}00'06$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}37'21$, Lahiri = $18^{\circ}44'22$ Greg. Calendar

JUNE 1633 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(¥	Р	ß	v	Ç	& &	Day
W 1	16 38 42	10 川 32'00	4 Υ 4	19°R37	219937	19 8 56	9 I 7	6°R41	25°R36	7°R54	24 8 35	16 Y 38	15 Υ 11	1795 8	24 Y 44	W 1
T 2	16 42 39	11°29'24	17° 3	19 Ⅱ 12	22°12	20°39	9°21	6 ₮ 36	25 Mp 36	7 M 53	24°37	16°R38	15° 8	17°14	24°47	T 2
F 3	16 46 35	12°26'47	29°48	18°44	22°46	21°22	9°35	6°32	25°D36	7°51	24°38	16°38	15° 5	17°21	24°50	F 3
S 4	16 50 32	13°24'09	12821	18°14	23°18	22° 5	9°49	6°28	25°36	7°50	24°39	16°35	15° 1	17°28	24°53	S 4
S 5	16 54 28	14°21'30	24°43	17°42	23°49	22°48	10° 2	6°23	25°36	7°49	24°41	16°29	14°58	17°34	24°56	S 5
M 6	16 58 25	15°18'51	6 Ⅱ 57	17° 9	24°19	23°31	10°16	6°19	25°36	7°48	24°42	16°21	14°55	17°41	24°58	M 6
T 7	17 2 21	16°16'12	19° 3	16°35	24°47	24°14	10°30	6°15	25°36	7°47	24°43	16°11	14°52	17°48	25° 1	T 7
W 8	17 6 18	17°13'31	195 3	16° 1	25°13	24°57	10°44	6°10	25°37	7°45	24°45	16° 0	14°49	17°55	25° 4	W 8
T 9	17 10 14	18°10'50	12°58	15°28	25°38	25°40	10°58	6° 6	25°37	7°44	24°46	15°49	14°46	18° 1	25° 6	T 9
F 10	17 14 11	19° 8'09	24°50	14°56	26° 1	26°22	11°12	6° 2	25°37	7°43	24°47	15°38	14°42	18° 8	25° 9	F 10
S 11	17 18 8	20° 5'26	6 Ω 41	14°26	26°22	27° 5	11°26	5°57	25°38	7°42	24°48	15°29	14°39	18°15	25°11	S 11
S 12	17 22 4	21° 2'43	18°34	13°58	26°42	27°48	11°40	5°53	25°38	7°41	24°50	15°22	14°36	18°22	25°14	S 12
M13	17 26 1	21°59'59	0 m 33	13°32	27° 0	28°30	11°54	5°49	25°39	7°40	24°51	15°17	14°33	18°28	25°16	M13
T 14	17 29 57	22°57'14	12°41	13°10	27°15	29°13	12° 7	5°45	25°39	7°39	24°52	15°15	14°30	18°35	25°19	T 14
W15	17 33 54	23°54'28	25° 4	12°51	27°29	29°55	12°21	5°41	25°40	7°38	24°53	15°D14	14°27	18°42	25°21	W15
T 16	17 37 50	24°51'42	7 ≏ 46	12°36	27°41	0 Ⅱ 38	12°35	5°37	25°41	7°37	24°54	15°15	14°23	18°48	25°23	T 16
F 17	17 41 47	25°48'55	20°52	12°24	27°50	1°20	12°49	5°33	25°41	7°36	24°56	15°R15	14°20	18°55	25°26	F 17
S 18	17 45 43	26°46'07	4M26	12°18	27°58	2° 2	13° 2	5°29	25°42	7°35	24°57	15°13	14°17	19° 2	25°28	S 18
S 19	17 49 40	27°43'19	18°29	12°D15	28° 3	2°44	13°16	5°25	25°43	7°34	24°58	15°10	14°14	19° 9	25°30	S 19
M20	17 53 37	28°40'30	3 ∡ 0	12°18	28° 6	3°26	13°30	5°21	25°44	7°33	24°59	15° 4	14°11	19°15	25°32	M20
T 21	17 57 33	29°37'41	17°55	12°25	28°R 7	4° 9	13°43	5°17	25°45	7°32	25° 0	14°56	14° 7	19°22	25°34	T 21
W22	18 1 30	0934'52	3 ප 6	12°37	28° 5	4°51	13°57	5°13	25°46	7°31	25° 1	14°46	14° 4	19°29	25°36	W22
T 23	18 5 26	1°32'02	18°23	12°53	28° 1	5°33	14°11	5° 9	25°47	7°31	25° 3	14°36	14° 1	19°35	25°38	T 23
F 24	18 9 23	2°29'13	3 ≈ 33	13°15	27°54	6°14	14°24	5° 6	25°48	7°30	25° 4	14°26	13°58	19°42	25°40	F 24
S 25	18 13 19	3°26'23	18°28	13°41	27°45	6°56	14°38	5° 2	25°49	7°29	25° 5	14°18	13°55	19°49	25°42	S 25
S 26	18 17 16	4°23'34	3 ∺ 1	14°12	27°34	7°38	14°51	4°58	25°50	7°28	25° 6	14°13	13°52	19°56	25°44	S 26
M27	18 21 13	5°20'44	17° 7	14°48	27°20	8°20	15° 5	4°55	25°52	7°28	25° 7	14°11	13°48	20° 2	25°46	M27
T 28	18 25 9	6°17'55	0 Υ 46	15°29	27° 4	9° 2	15°18	4°51	25°53	7°27	25° 8	14°10	13°45	20° 9	25°48	T 28
W29	18 29 6	7°15'06	14° 0	1 <u>6</u> °14	26°46	9°43	15°32	4°48	25°54	7°26	25° 9	14°10	13°42	20°16	25°50	W29
T 30	18 33 2	89512'17	26 Y 53	17 I I 4	26926	10Ⅱ25	15 Ⅱ 45	4 ₹ 45	25 Mp 56	7 M 26	25810	14 Y 9	13 Υ 39	209523	25 Y 51	T 30

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W 1 T 2	22n 4 22 12		-		2n27 17n33 2 22 17 45		21n21 21 23	0 s31 0 31	19s35 19 34	1n55 1 55	2n27 2 27		12 s25 12 25	1n51 1 51	6n 5 13s15 6 5 13 15		6n 0 5 58	27n29 27 28	10n 3 0n29 10 4 0 29
F 3	22 12				2 16 17 57		21 26			1 55	2 26			1 51	6 6 13 15				10 4 0 29
S 4	22 27	17 41 2 13	20 36		2 11 18 9	0 11	21 28	0 31	19 33	1 55	2 26	0 45	12 24	1 51	6 6 13 15	6 32	5 56	27 27	10 6 0 29
S 5	22 34	22 2 3 9	20 17	2 38 23 25 2	2 4 18 21	0 10	21 30	0 31	19 32	1 55	2 26	0 45	12 23	1 51	6 6 13 15	6 30	5 55	27 26	10 7 0 29
M 6	22 41				1 58 18 32		21 32	0 30		1 54	2 26			1 51	6 6 13 15			27 25	
T 7	22 47				1 51 18 43		21 34	0 30		1 54	2 26		12 23	1 51	6 6 13 15			27 24	
W 8 T 9	22 52 22 58				1 44 18 54 1 36 19 5		21 36 21 38	0 30 0 30		1 54 1 54	2 26 2 26		12 22 12 22	1 51 1 51	6 7 13 15 6 7 13 16			27 2327 22	10 10 0 29 10 11 0 29
F 10					1 29 19 16		21 40	0 30		1 54	2 26			1 51	6 7 13 16			27 21	
S 11					1 20 19 27		21 42	0 30	-	1 54	2 25		12 21	1 51	6 7 13 16			27 20	
S 12	-				1 12 19 37		21 44			1 54	2 25		12 21	1 51	6 7 13 16			27 19	
M13		14 38 3 34		4 12 21 50	1 3 19 47		21 46	0 30	-	1 54	2 25			1 51	6 8 13 16		-	27 18	
T 14 W15	23 18 23 21	9 20 2 44 3 34 1 45) 54 19 57) 44 20 7		21 48 21 50	0 30 0 30		1 54 1 53	2 25 2 24	0 45 0 44	12 21 12 20	1 51 1 51	6 8 13 16 6 8 13 16		-	27 1727 16	
T 16	23 23				34 20 16		21 50	0 30		1 53	2 24		12 20	1 51	6 8 13 16			27 15	
F 17	23 25				24 20 26		21 54	0 30	-	1 53	2 24		12 20	1 51	6 8 13 16		-	27 14	
S 18					13 20 35		21 55		19 24	1 53	2 23		12 19	1 51	6 9 13 16			27 13	
S 19					2 20 44		21 57	0 29	-	1 53	2 23		12 19	1 51	6 9 13 17			27 12	
M20	23 29	-			0s 9 20 53		21 59		-	1 53	2 23		-	1 51	6 9 13 17			27 10	
T 21 W22	23 29 23 29) 21 21 1) 33 21 10	0n 0 0 1	22 1 22 2	0 29 0 29		1 53 1 53	2 22 2 22	0 44 0 44		1 51 1 50	6 9 13 17 6 9 13 17	5 54 5 50	5 35 5 34		10 21 0 28 10 21 0 28
	23 29	-) 46 21 18		22 4	0 29		1 52	2 22		12 19	1 50	6 9 13 17	5 46	5 32		10 21 0 28
F 24	23 28	_, _, _ ,	-		58 21 26		22 6	0 29		1 52	2 21		12 18	1 50	6 9 13 17	5 42	5 31		10 23 0 28
S 25	23 27	-			1 11 21 34		22 7			1 52	2 20		-	1 50	6 9 13 17		5 30		
S 26	23 25	13 31 3 19	18 45	3 50 19 18	1 25 21 41	0 4	22 9	0 29	19 20	1 52	2 20	0 44	12 18	1 50	6 10 13 17	5 37	5 29	27 4	10 24 0 28
M27	23 23				1 38 21 49		-	0 29		1 52	2 19			1 50	6 10 13 18		5 27		10 25 0 28
T 28	23 20				1 52 21 56		22 12	0 29		1 52	2 19		12 17	1 50	6 10 13 18		5 26		10 25 0 28
	23 17	5n31 0 1			2 6 22 3		22 13			1 51	2 18	-	12 17	1 50	6 10 13 18		5 25		10 26 0 28
1 30	23n14	11n25 1n 7	19n42	3 s 10 18 n 37 2	2 s20 22n10	Un 6	22n15	0 s29	19s18	1n51	2n18	0n44	12s17	1n50	6n10 13s18	5n36	5n24	26n59	10n26 0n28

 $\label{eq:Julian Day Number = 2317652.5, Delta\ T = 55.28\ sec} \\ Ecliptic\ obliquity = 23°29'21, Nutation = -0°00'05, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 19°37'25, Lahiri = 18°44'26Greg.\ Calendar \\$

JULY 1633 GC 00:00 UT

Day	Sid.t	0)	ğ	φ	ď	4	ħ)∤(,	В	S.	v	Ç	ę,	Day
F 1	18 36 59	99 9'29	9 8 28	17 II 59	26°R 3	11 I 6	15 Ⅱ 58	4°R41	25 m 57	7°R25	25811	14°R 7	13 Y 36	20929	25 Υ 53	F 1
S 2	18 40 55	10° 6'41	21°50	18°58	25938	11°48	16°12	4 ₹ 38	25°59	7 M 25	25°12	14 Y 3	13°33	20°36	25°54	S 2
S 3	18 44 52	11° 3'54	4 I 1	20° 1	25°11	12°29	16°25	4°35	26° 0	7°24	25°13	13°56	13°29	20°43	25°56	S 3
M 4	18 48 48	12° 1'06	16° 4	21° 9	24°43	13°11	16°38	4°32	26° 2	7°24	25°14	13°46	13°26	20°49	25°57	M 4
T 5	18 52 45	12°58'19	28° 2	22°21	24°12	13°52	16°51	4°29	26° 4	7°23	25°15	13°34	13°23	20°56	25°59	T 5
W 6	18 56 42	13°55'33	9957	23°38	23°40	14°33	17° 4	4°26	26° 5	7°23	25°16	13°21	13°20	21° 3	26° 0	W 6
T 7	19 0 38	14°52'46	21°49	24°59	23° 7	15°14	17°18	4°23	26° 7	7°22	25°17	13° 7	13°17	21°10	26° 2	T 7
F 8	19 4 35	15°50'00	3 Ω 40	26°23	22°32	15°55	17°31	4°20	26° 9	7°22	25°18	12°53	13°13	21°16	26° 3	F 8
S 9	19 8 31	16°47'14	15°33	27°52	21°57	16°36	17°44	4°18	26°11	7°22	25°19	12°42	13°10	21°23	26° 4	S 9
S 10	19 12 28	17°44'28	27°28	29°25	21°20	17°17	17°57	4°15	26°12	7°21	25°20	12°33	13° 7	21°30	26° 5	S 10
M11	19 16 24	18°41'43	9 m 29	195 2	20°43	17°58	18° 9	4°13	26°14	7°21	25°21	12°27	13° 4	21°37	26° 6	M11
T 12	19 20 21	19°38'57	21°39	2°42	20° 6	18°39	18°22	4°10	26°16	7°21	25°22	12°23	13° 1	21°43	26° 7	T 12
W13	19 24 17	20°36'12	4 ♀ 1	4°26	19°28	19°20	18°35	4° 8	26°18	7°21	25°22	12°22	12°58	21°50	26° 8	W13
T 14	19 28 14	21°33'27	16°41	6°13	18°51	20° 1	18°48	4° 5	26°20	7°20	25°23	12°22	12°54	21°57	26° 9	T 14
F 15	19 32 11	22°30'42	29°43	8° 4	18°14	20°42	19° 0	4° 3	26°23	7°20	25°24	12°22	12°51	22° 3	26°10	F 15
S 16	19 36 7	23°27'58	13 M J11	9°57	17°38	21°22	19°13	4° 1	26°25	7°20	25°25	12°21	12°48	22°10	26°11	S 16
S 17	19 40 4	24°25'14	27° 7	11°53	17° 2	22° 3	19°26	3°59	26°27	7°20	25°26	12°17	12°45	22°17	26°12	S 17
M18	19 44 0	25°22'30	11 × 32	13°52	16°28	22°43	19°38	3°57	26°29	7°20	25°26	12°12	12°42	22°24	26°12	M18
T 19	19 47 57	26°19'46	26°22	15°52	15°55	23°24	19°51	3°55	26°31	7°D20	25°27	12° 4	12°39	22°30	26°13	T 19
W20	19 51 53	27°17'04	11 る 32	17°54	15°23	24° 4	20° 3	3°53	26°34	7°20	25°28	11°54	12°35	22°37	26°14	W20
T 21	19 55 50	28°14'21	26°51	19°58	14°53	24°45	20°15	3°52	26°36	7°20	25°29	11°44	12°32	22°44	26°14	T 21
F 22	19 59 46	29°11'40	12≈ 9	22° 3	14°25	25°25	20°28	3°50	26°39	7°20	25°29	11°35	12°29	22°50	26°15	F 22
S 23	20 3 43	oΩ 8'59	27°13	24° 8	13°58	26° 5	20°40	3°49	26°41	7°20	25°30	11°27	12°26	22°57	26°15	S 23
S 24	20 7 40	1° 6'19	11 米 56	26°14	13°34	26°45	20°52	3°47	26°43	7°20	25°31	11°22	12°23	23° 4	26°16	S 24
M25	20 11 36	2° 3'40	26°11	28°21	13°12	27°25	21° 4	3°46	26°46	7°20	25°31	11°19	12°19	23°11	26°16	M25
T 26	20 15 33	3° 1'02	9 Υ 58	0 Ω 27	12°52	28° 6	21°16	3°45	26°49	7°21	25°32	11°D18	12°16	23°17	26°16	T 26
W27	20 19 29	3°58'25	23°17	2°32	12°34	28°46	21°28	3°43	26°51	7°21	25°33	11°18	12°13	23°24	26°17	W27
T 28	20 23 26	4°55'50	6 8 11	4°37	12°19	29°25	21°40	3°42	26°54	7°21	25°33	11°R19	12°10	23°31	26°17	T 28
F 29	20 27 22	5°53'15	18°45	6°42	12° 6	099 5	21°52	3°41	26°56	7°21	25°34	11°18	12° 7	23°38	26°17	F 29
S 30	20 31 19	6°50'42	1 I I 3	8°45	11°56	0°45	22° 3	3°41	26°59	7°22	25°34	11°15	12° 4	23°44	26°17	S 30
S 31	20 35 15	7 Ω 48'11	13 II 9	10 Ω 48	119547	19525	22 II 15	3 ∡ 740	27 MD 2	7 M 22	25 8 35	11 Y 10	12 Y 0	23951	26°R17	S 31

Day	0	D		ğ		φ	С	7	2	ŀ	ħ)į	(¥		Р	n	Ω	Ç	Š	j
	decl	decl lat	d	decl la	ıt	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	dec	l lat	decl	decl	decl	decl	lat
F 1 S 2	23n10 23 6	16n43 2 21 14 3	2n 9 19 5 5 20				22n16 22 23		22n16 22 18	0 s29 0 29		1n51 1 51	2n17 2 16	0n44 0 44	12s17 1ns		0 13 s18 0 13 18	5n35 5 33		26n58 26 57	10n27 10 28	0n28 0 28
S 3 M 4 T 5 W 6		27 10 4 28 17 4	5 51 20 4 26 20 4 49 21 4 59 21	50 7		3 0 3 17 7 52 3 31		0 9 0 10	22 19 22 21 22 22 22 23	0 29 0 28 0 28 0 28	19 16	1 51 1 51 1 50 1 50	2 16 2 15 2 14 2 14	0 44 0 44 0 44 0 44	12 17 1 : 12 16 1 :	50 6 1 50 6 1	0 13 18 0 13 19 0 13 19 0 13 19	5 31 5 27 5 22 5 17	5 19 5 18	26 56 26 55 26 54 26 52	10 28 10 29	0 28 0 28 0 28 0 27
T 7 F 8 S 9	22 33 22 26	23 54 4 20 13 4	56 21 40 21 12 22	56	1 30 17 1 17 17	7 28 4 12 7 20 4 25		0 12 0 13	22 25 22 26 22 27	0 28	19 15 19 15	1 50 1 50 1 50	2 13 2 12 2 11	0 43	12 16 1 : 12 16 1 :	50 6 1 50 6 1	0 13 19 0 13 19 0 13 20	-	5 14 5 13	26 51 26 50 26 49	10 30 10 31	0 27 0 27 0 27
S 10 M11 T 12 W13 T 14	22 19 22 11 22 3 21 54 21 46	10 34 2 4 58 1 0s56 0	33 22 2 44 22 47 22 0 44 23 0 823 23	39 (50 (60 (60 (60 (60 (60 (60 (60 (60 (60 (6	0 50 17 0 37 17 0 24 16	7 0 5 2 6 55 5 13	23 11	0 14 0 15 0 15	22 28 22 30 22 31 22 32 22 33	0 28 0 28 0 28 0 28 0 28	19 15 19 14 19 14	1 49 1 49 1 49 1 49 1 49	2 10 2 10 2 9 2 8 2 7	0 43 0 43 0 43 0 43	12 16 1 4 12 16 1 4 12 16 1 4 12 16 1 4 12 16 1 4	19 6 1 19 6 1 19 6 1	0 13 20 0 13 20 0 13 20 0 13 20 0 13 20	4 58 4 56 4 54 4 54 4 54	5 10 5 9 5 8	26 48 26 46 26 45 26 44 26 43	10 31 10 32 10 32	0 27 0 27 0 27 0 27 0 27
F 15 S 16	21 36 21 27	12 48 1 18 18 2	30 23 2 35 23	15 (0n 0 16 0 12 16	5 44 5 34 5 39 5 43	23 27 23 30	0 17 0 18	22 34 22 35	0 28 0 28	19 14 19 13	1 48 1 48	2 6 2 5	0 43 0 43	12 16 1 4 12 16 1 4	19 6 1 19 6 1	0 13 21 0 13 21	4 54 4 53	5 5 5 4	26 41 26 40	10 33 10 33	0 27 0 27
S 17 M18 T 19 W20 T 21 F 22	20 56 20 45 20 33 20 22	26 30 4 28 16 4 27 59 5 25 35 4 21 21 4	50 23 5 1 23 5 51 23 5 20 22	20 16 10 10 1 150	0 34 16 0 44 16 0 53 16 1 2 16 1 10 16	6 31 6 0 6 28 6 7 6 25 6 14 6 22 6 19 6 20 6 25	23 39 23 42 23 44 23 46	0 19 0 20 0 20 0 21 0 22	22 41	0 28 0 28 0 28 0 28 0 27	19 13 19 13 19 13 19 13	1 48 1 48 1 48 1 47 1 47	2 4 2 4 2 3 2 2 2 1 2 0		12 16 1 4 12 16 1 4 12 16 1 4 12 16 1 4 12 16 1 4	19 6 1 19 6 1 19 6 1 19 6 1 19 6 1	0 13 21 0 13 21 0 13 22 0 13 22 0 13 22 0 13 22	4 52 4 50 4 47 4 43 4 39 4 35	5 1 5 0 4 59 4 58 4 57	26 39 26 38 26 36 26 35 26 34 26 32	10 33 10 33 10 34 10 34 10 34	0 27 0 27 0 27 0 27 0 27 0 27 0 27
S 23 S 24 M25 T 26 W27 T 28 F 29 S 30	19 57 19 45 19 31 19 18 19 4 18 50	9 24 2 2 44 1 3n51 0 10 3 1 15 38 2 20 24 3	n 3 21	19 59 38 13 47 18	1 24 16 1 29 16 1 34 16 1 38 16 1 41 16 1 44 16	6 17 6 33 6 16 6 36 6 16 6 38 6 16 6 40 6 16 6 41 6 16 6 41		0 23 0 24 0 25 0 25 0 26 0 27	22 42 22 43 22 44 22 45 22 46 22 46 22 47 22 48	0 27 0 27 0 27 0 27 0 27 0 27 0 27	19 13 19 13 19 13 19 13	1 47 1 46 1 46 1 46 1 46 1 45 1 45	1 59 1 58 1 57 1 56 1 55 1 53 1 52 1 51	0 43 0 43	12 17 1 4 12 17 1 4 12 17 1 4 12 17 1 4 12 17 1 4 12 17 1 4 12 17 1 4 12 17 1 4	19 6 1 19 6 1 19 6 1 18 6 1 18 6 1	0 13 22 0 13 23 0 13 23 0 13 23 0 13 23 0 13 23 0 13 24 0 13 24	4 32 4 30 4 29 4 29 4 29 4 29 4 29 4 29 4 28	4 54 4 53 4 52 4 50 4 49 4 48	26 31 26 30 26 28 26 27 26 26 26 24 26 23 26 22	10 34 10 34 10 34 10 34 10 34 10 34	0 27 0 27 0 26 0 26 0 26 0 26 0 26 0 26 0 26
S 31			ln28 19		1 43 10 1n46 16		23 37 23n57		22 48 22n49		19 13 19 s13	1 43 1n45			12 17 1 1 12 s18 1n		9 13 s24				10°34	

 $\label{eq:Julian Day Number = 2317682.5, Delta T = 55.22 sec} \\ Ecliptic obliquity = 23°29'21, Nutation = -0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°37'30, Lahiri = 18°44'30Greg. Calendar$

AUGUST 1633 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ş	♂	4	ħ)∤(,	Р	S.	v	Ç	ķ	Day
M 1	20 39 12	8 Ω 45'40	25 I 7	12\$\Omega49\$	11°R42	295 5	22 II 26	3°R39	27 m/ 5	7 M 23	25 8 35	11°R 2	11 Y 57	239558	26°R17	M 1
T 2	20 43 9	9°43'11	7 95 0	14°49	119539	2°44	22°38	3 ∡ 39	27° 8	7°23	25°36	10 Y 53	11°54	24° 4	26 Y 17	T 2
W 3	20 47 5	10°40'43	18°52	16°47	11°D38	3°24	22°49	3°38	27°10	7°23	25°36	10°42	11°51	24°11	26°17	W 3
T 4	20 51 2	11°38'16	0 Ω 44	18°45	11°39	4° 4	23° 1	3°38	27°13	7°24	25°37	10°30	11°48	24°18	26°16	T 4
F 5	20 54 58	12°35'50	12°38	20°40	11°43	4°43	23°12	3°37	27°16	7°24	25°37	10°20	11°45	24°25	26°16	F 5
S 6	20 58 55	13°33'26	24°35	22°35	11°48	5°23	23°23	3°37	27°19	7°25	25°38	10°10	11°41	24°31	26°16	S 6
S 7	21 2 51	14°31'02	6 m /37	24°27	11°57	6° 2	23°34	3°37	27°22	7°26	25°38	10° 3	11°38	24°38	26°15	S 7
M 8	21 6 48	15°28'40	18°46	26°19	12° 7	6°41	23°45	3°D37	27°25	7°26	25°38	9°59	11°35	24°45	26°15	M 8
T 9	21 10 44	16°26'18	1₽ 4	28° 9	12°19	7°20	23°56	3°37	27°28	7°27	25°39	9°56	11°32	24°51	26°14	T 9
W10	21 14 41	17°23'58	13°33	29°57	12°33	8° 0	24° 7	3°37	27°31	7°28	25°39	9°D56	11°29	24°58	26°14	W10
T 11	21 18 38	18°21'39	26°17	1 mp 44	12°49	8°39	24°17	3°38	27°34	7°28	25°39	9°57	11°25	25° 5	26°13	T 11
F 12	21 22 34	19°19'21	9M20	3°30	13° 8	9°18	24°28	3°38	27°38	7°29	25°40	9°58	11°22	25°12	26°12	F 12
S 13	21 26 31	20°17'04	22°44	5°14	13°27	9°57	24°38	3°39	27°41	7°30	25°40	9°R58	11°19	25°18	26°12	S 13
S 14	21 30 27	21°14'48	6 ₹ 33	6°56	13°49	10°36	24°49	3°39	27°44	7°31	25°40	9°57	11°16	25°25	26°11	S 14
M15	21 34 24	22°12'33	20°46	8°38	14°13	11°15	24°59	3°40	27°47	7°31	25°40	9°54	11°13	25°32	26°10	M15
T 16	21 38 20	23°10'20	5 군 22	10°18	14°38	11°53	25° 9	3°41	27°50	7°32	25°41	9°49	11°10	25°38	26° 9	T 16
W17	21 42 17	24° 8'07	20°16	11°56	15° 5	12°32	25°19	3°41	27°54	7°33	25°41	9°43	11° 6	25°45	26° 8	W17
T 18	21 46 13	25° 5'56	5≈22	13°33	15°33	13°11	25°29	3°42	27°57	7°34	25°41	9°37	11° 3	25°52	26° 7	T 18
F 19	21 50 10	26° 3'46	20°30	15° 9	16° 3	13°49	25°39	3°44	28° 0	7°35	25°41	9°30	11° 0	25°59	26° 6	F 19
S 20	21 54 7	27° 1'38	5 ₩30	16°43	16°34	14°28	25°49	3°45	28° 4	7°36	25°41	9°25	10°57	26° 5	26° 5	S 20
S 21	21 58 3	27°59'31	20°12	18°16	17° 7	15° 7	25°58	3°46	28° 7	7°37	25°41	9°22	10°54	26°12	26° 4	S 21
M22	22 2 0	28°57'26	4 Υ 32	19°48	17°41	15°45	26° 8	3°47	28°10	7°38	25°42	9°D21	10°50	26°19	26° 3	M22
T 23	22 5 56	29°55'22	18°24	21°18	18°16	16°23	26°17	3°49	28°14	7°39	25°42	9°21	10°47	26°26	26° 2	T 23
W24	22 9 53	0 m 53'21	1849	22°47	18°53	17° 2	26°27	3°50	28°17	7°40	25°42	9°22	10°44	26°32	26° 0	W24
T 25	22 13 49	1°51'21	14°48	24°14	19°31	17°40	26°36	3°52	28°21	7°41	25°42	9°24	10°41	26°39	25°59	T 25
F 26	22 17 46	2°49'23	27°26	25°40	20°10	18°18	26°45	3°54	28°24	7°43	25°R42	9°R25	10°38	26°46	25°57	F 26
S 27	22 21 42	3°47'28	9 Ⅱ 45	27° 5	20°50	18°56	26°54	3°55	28°28	7°44	25°42	9°25	10°35	26°52	25°56	S 27
S 28	22 25 39	4°45'34	21°51	28°28	21°31	19°34	27° 3	3°57	28°31	7°45	25°42	9°23	10°31	26°59	25°54	S 28
M29	22 29 36	5°43'42	39548	29°50	22°13	20°12	27°11	3°59	28°35	7°46	25°42	9°20	10°28	27° 6	25°53	M29
T 30	22 33 32	6°41'52	15°41	1 ≙ 10	22°56	20°50	27°20	4° 1	28°38	7°48	25°41	9°16	10°25	27°13	25°51	T 30
W31	22 37 29	7 m) 40'04	27932	2 ≏ 29	239541	219528	27 Ⅱ 28	4 才 4	28 Mp 42	7 M 49	25 8 41	9 Υ 11	10 Y 22	279519	25 Y 50	W31

Day	0	D	ğ	·	♂	4	ħ)f(¥	Р	R	ນ ţ	ķ
	decl	decl lat	decl la	at decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl dec	l decl lat
M 1	18n 6	28n16 4n5	2 18n42	1n46 16n20 6s40	23n57 0n29	22n49 0s27	19s13 1n45	1n49 0n43	12s18 1n48	6n 9 13 s24	4n23	4n44 26n1	9 10n34 0n26
T 2	17 51	28 20 5	3 18 7	1 46 16 22 6 38	23 57 0 30	22 50 0 27	19 13 1 44	1 48 0 43	12 18 1 48	6 9 13 25	4 19	4 43 26 1	7 10 34 0 26
W 3	17 36	27 7 5	0 17 30	1 45 16 24 6 36	23 57 0 30	22 51 0 27	19 13 1 44	1 47 0 43	12 18 1 48	6 9 13 25	4 15	4 42 26 1	6 10 34 0 26
T 4	17 20	24 40 4 4	5 16 53	1 43 16 26 6 34	23 57 0 31	22 51 0 27	19 13 1 44	1 45 0 43	12 18 1 48	6 9 13 25	4 10	4 40 26 1	5 10 34 0 26
F 5						22 52 0 27		1 44 0 43		6 9 13 25	4 6	4 39 26 1	
S 6	16 47	16 46 3 3	8 15 34	1 39 16 31 6 28	23 55 0 32	22 53 0 27	19 14 1 44	1 43 0 43	12 19 1 48	6 9 13 26	4 2	4 38 26 1	2 10 33 0 26
S 7	16 31	11 43 2 4	9 14 54	1 35 16 34 6 25	23 54 0 33	22 53 0 27	19 14 1 43	1 42 0 42	12 19 1 48	6 8 13 26	3 59	4 37 26 1	0 10 33 0 26
M 8	16 14	6 9 1 5	1 14 12	1 32 16 37 6 21	23 53 0 34	22 54 0 27	19 14 1 43	1 41 0 42	12 19 1 48	6 8 13 26	3 58	4 35 26	9 10 33 0 26
T 9	15 57	0 18 0 4	8 13 31	1 28 16 40 6 17	23 52 0 35	22 54 0 27	19 14 1 43	1 39 0 42	12 20 1 48	6 8 13 26	3 57	4 34 26	7 10 33 0 26
W10	15 39	5s39 0s1	9 12 48	1 23 16 43 6 12	23 50 0 35	22 55 0 27	19 14 1 43	1 38 0 42	12 20 1 48	6 8 13 27	3 57	4 33 26	6 10 33 0 26
T 11	15 21	11 31 1 2		1 18 16 46 6 8		22 55 0 27		1 37 0 42	12 20 1 48	6 8 13 27	3 57	-	5 10 32 0 25
F 12		17 2 2 3		1 13 16 49 6 3		22 56 0 27		1 36 0 42		6 8 13 27	3 57		3 10 32 0 25
S 13	14 45	21 52 3 3	0 10 39 1	1 7 16 52 5 58	23 44 0 37	22 56 0 26	19 15 1 42	1 34 0 42	12 21 1 47	6 7 13 27	3 57	4 29 26	2 10 32 0 25
S 14	14 27	25 40 4 1	7 9 56	1 1 16 55 5 53	23 42 0 38	22 57 0 26	19 16 1 42	1 33 0 42	12 21 1 47	6 7 13 28	3 57	4 28 26	0 10 31 0 25
M15	14 8	28 0 4 5				22 57 0 26	19 16 1 41	1 32 0 42	12 21 1 47	6 7 13 28	3 56		9 10 31 0 25
T 16	13 49					22 58 0 26		1 30 0 42		6 7 13 28	3 54		7 10 31 0 25
W17						22 58 0 26		1 29 0 42		6 7 13 28	3 52		6 10 30 0 25
T 18		23 27 4 3				22 58 0 26		1 28 0 42		6 6 13 29	3 49		4 10 30 0 25
F 19	-	18 22 3 5					19 18 1 41	1 26 0 42		6 6 13 29	3 46	4 22 25 5	
S 20	12 32	12 12 2 5	3 5 33 (0 20 17 11 5 19	23 24 0 42	22 59 0 26	19 18 1 40	1 25 0 42	12 23 1 47	6 6 13 29	3 44	4 20 25 5	1 10 29 0 25
S 21	12 12	5 27 1 4	2 4 50 (0 12 17 13 5 12	23 21 0 43	23 0 0 26	19 19 1 40	1 24 0 42	12 24 1 47	6 6 13 29	3 43	4 19 25 5	0 10 28 0 25
M22	11 52	1n24 0 2	6 4 7 (0 4 17 15 5 6	23 17 0 44		19 19 1 40	1 22 0 42	12 24 1 47	6 6 13 30	3 43	4 18 25 4	
T 23	11 31	7 59 0n4		0s 4 17 17 5 0						6 5 13 30	3 43	4 17 25 4	
W24		13 59 1 5		0 12 17 19 4 53						6 5 13 30	3 43		5 10 27 0 25
T 25	10 50	-		0 20 17 20 4 47					12 25 1 47	6 5 13 30	3 44		3 10 26 0 25
F 26		23 23 3 5		0 29 17 21 4 41					12 26 1 47	6 5 13 31		4 13 25 4	
S 27	10 8	26 25 4 3	1 0 36 0	0 37 17 21 4 34	22 56 0 48	23 1 0 26	19 22 1 39	1 15 0 42	12 26 1 47	6 4 13 31	3 44	4 12 25 4	0 10 25 0 25
S 28		28 11 4 5			22 51 0 48		19 22 1 39		12 27 1 47	6 4 13 31	3 44	4 10 25 3	
M29	9 26	28 36 5 1	0 46 (22 46 0 49			-	12 27 1 47	6 4 13 31	3 42	4 9 25 3	
T 30		_,	9 1 26 1		22 41 0 50			-	12 27 1 47	6 4 13 32	3 41		5 10 23 0 24
W31	8n43	25n32 4n5	6 2s 5	1s11 17n21 4s 7	22n36 0n50	23n 2 0s26	19s24 1n38	1n10 0n42	12 s 28 1 n 4 6	6n 3 13 s32	3n39	4n 7 25n3	4 10n23 0n24

Julian Day Number = 2317713.5, Delta T = 55.15 sec Ecliptic obliquity = $23^{\circ}29'22$, Nutation = $-0^{\circ}00'02$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}37'34$, Lahiri = $18^{\circ}44'34$ Greg. Calendar

SEPTEMBER 1633 GC 00:00 UT

JLI	ILMDLK	1033 u	C												00.0	0 01
Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(并	В	S.	v	Ç	Ŷ,	Day
T 1	22 41 25	8 mp 38'18	9Ω26	3 <u>₽</u> 46	249526	2295 6	27 Ⅲ 37	4 ₹ 6	28 m /46	7 M 50	25°R41	9°R 5	10 Υ 19	279526	25°R48	T 1
F 2	22 45 22	9°36'34	21°24	5° 2	25°12	22°44	27°45	4° 8	28°49	7°52	25 8 41	9 Υ 0	10°16	27°33	25 Υ 46	F 2
S 3	22 49 18	10°34'52	3 m 29	6°16	25°59	23°21	27°53	4°11	28°53	7°53	25°41	8°55	10°12	27°39	25°44	S 3
S 4	22 53 15	11°33'11	15°42	7°28	26°47	23°59	28° 1	4°13	28°57	7°54	25°41	8°52	10° 9	27°46	25°43	S 4
M 5	22 57 11	12°31'33	28° 4	8°38	27°35	24°37	28° 9	4°16	29° 0	7°56	25°41	8°50	10° 6	27°53	25°41	M 5
T 6	23 1 8	13°29'56	10 ≏ 37	9°46	28°25	25°14	28°16	4°19	29° 4	7°57	25°40	8°D50	10° 3	28° 0	25°39	T 6
W 7	23 5 5	14°28'20	23°22	10°52	29°15	25°52	28°24	4°22	29° 8	7°59	25°40	8°51	10° 0	28° 6	25°37	W 7
T 8	23 9 1	15°26'47	6M20	11°56	0Ω 5	26°29	28°31	4°24	29°11	8° 0	25°40	8°52	9°56	28°13	25°35	T 8
F 9	23 12 58	16°25'15	19°33	12°58	0°57	27° 6	28°38	4°27	29°15	8° 2	25°39	8°53	9°53	28°20	25°33	F 9
S 10	23 16 54	17°23'45	3 ∡ 3	13°57	1°49	27°43	28°46	4°31	29°19	8° 3	25°39	8°55	9°50	28°26	25°31	S 10
S 11	23 20 51	18°22'17	16°49	14°54	2°42	28°20	28°52	4°34	29°22	8° 5	25°39	8°R55	9°47	28°33	25°28	S 11
M12	23 24 47	19°20'50	0 궁 53	15°48	3°35	28°57	28°59	4°37	29°26	8° 7	25°38	8°55	9°44	28°40	25°26	M12
T 13	23 28 44	20°19'25	15°13	16°38	4°29	29°34	29° 6	4°40	29°30	8° 8	25°38	8°54	9°41	28°47	25°24	T 13
W14	23 32 40	21°18'01	29°47	17°26	5°24	0 Ω 11	29°12	4°44	29°34	8°10	25°38	8°52	9°37	28°53	25°22	W14
T 15	23 36 37	22°16'39	14≈29	18° 9	6°19	0°48	29°19	4°47	29°37	8°12	25°37	8°50	9°34	29° 0	25°19	T 15
F 16	23 40 34	23°15'19	29°14	18°49	7°15	1°25	29°25	4°51	29°41	8°13	25°37	8°48	9°31	29° 7	25°17	F 16
S 17	23 44 30	24°14'01	13) (54	19°25	8°11	2° 2	29°31	4°55	29°45	8°15	25°36	8°46	9°28	29°13	25°15	S 17
S 18	23 48 27	25°12'44	28°22	19°57	9° 8	2°38	29°37	4°58	29°49	8°17	25°36	8°45	9°25	29°20	25°12	S 18
M19	23 52 23	26°11'30	12 Y 33	20°23	10° 5	3°15	29°42	5° 2	29°52	8°18	25°35	8°D45	9°22	29°27	25°10	M19
T 20	23 56 20	27°10'18	26°22	20°45	11° 3	3°51	29°48	5° 6	29°56	8°20	25°35	8°45	9°18	29°34	25° 7	T 20
W21	0 0 16	28° 9'07	9 8 48	21° 0	12° 2	4°28	29°53	5°10	29°59	8°22	25°34	8°46	9°15	29°40	25° 5	W21
T 22	0 4 13	29° 8'00	22°51	21°10	13° 0	5° 4	29°58	5°14	0요 4	8°24	25°34	8°47	9°12	29°47	25° 2	T 22
F 23	0 8 9	0 ♀ 6'54	5 Ⅱ 32	21°R14	14° 0	5°40	0 9 3	5°18	0° 8	8°26	25°33	8°48	9° 9	29°54	25° 0	F 23
S 24	0 12 6	1° 5'51	17°55	21°10	14°59	6°16	0° 8	5°23	0°11	8°28	25°33	8°49	9° 6	0 N 0	24°57	S 24
S 25	0 16 3	2° 4'50	0ණ 3	21° 0	15°59	6°53	0°13	5°27	0°15	8°29	25°32	8°R49	9° 2	0° 7	24°55	S 25
M26	0 19 59	3° 3'51	12° 1	20°42	17° 0	7°29	0°17	5°31	0°19	8°31	25°32	8°49	8°59	0°14	24°52	M26
T 27	0 23 56	4° 2'55	23°54	20°16	18° 1	8° 5	0°22	5°36	0°23	8°33	25°31	8°48	8°56	0°21	24°49	T 27
W28	0 27 52	5° 2'01	5 Ω 47	19°42	19° 2	8°40	0°26	5°40	0°26	8°35	25°30	8°48	8°53	0°27	24°47	W28
T 29	0 31 49	6° 1'09	17°42	19° 1	20° 4	9°16	0°30	5°45	0°30	8°37	25°30	8°48	8°50	0°34	24°44	T 29
F 30	0 35 45	7 ♀ 0'20	29 Ω 45	18 ≏ 13	21Ω 6	9Ω52	0ഇ33	5 √ 49	0 ჲ 34	8M39	25 8 29	8 Ƴ 47	8 Ƴ 47	$0\Omega41$	24 Υ 41	F 30

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl	decl	decl lat
T 1 F 2 S 3	8n21 7 59 7 37		3 22 1 2	29 17 18 3 54	22n31 0n51 22 25 0 52 22 20 0 53	23 3 0 26	19 25 1 37	1n 8 0n42 1 7 0 42 1 5 0 42	12 29 1 46	6 3 13 32	3n36 3 34 3 33			10n22 0n24 10 21 0 24 10 20 0 24
S 4 M 5 T 6 W 7 T 8	7 15 6 52 6 30 6 8 5 45	1 40 0 59 4s22 0s10 10 19 1 19	5 11 1 5 5 46 2 6 19 2 1	16 17 14 3 40 54 17 12 3 34 3 17 9 3 27 11 17 5 3 20 20 17 1 3 14	22 8 0 54 22 2 0 55 21 56 0 56	23 3 0 26 23 3 0 26 23 3 0 26	19 28 1 37 19 29 1 36	1 4 0 42 1 2 0 42 1 1 0 42 0 59 0 42 0 58 0 42	12 30 1 46 12 31 1 46 12 31 1 46	6 2 13 33	3 31 3 31 3 30 3 31 3 31	4 2 2: 4 0 2: 3 59 2: 3 58 2: 3 57 2:	5 26 5 24 5 22	10 20 0 24 10 19 0 24 10 18 0 24 10 17 0 24 10 17 0 24
F 9 S 10	5 22 4 59	20 57 3 26 24 59 4 16			21 43 0 57 21 36 0 58			0 56 0 42 0 55 0 42			3 32 3 32	3 55 2: 3 54 2:		10 16 0 24 10 15 0 24
S 11 M12 T 13 W14 T 15 F 16 S 17	4 36 4 14 3 50 3 27 3 4 2 41 2 18	28 41 5 12 27 48 5 13 25 2 4 55 20 36 4 16 14 54 3 21	8 51 2 5 9 18 2 5 9 42 3	51 16 41 2 47 58 16 35 2 40 5 16 28 2 34 2 16 21 2 27 8 16 14 2 21	21 16 1 0 21 9 1 1 21 1 1 2 20 54 1 2	23 4 0 25 23 4 0 25	19 33 1 35 19 33 1 35 19 34 1 35 19 35 1 35 19 36 1 35	0 47 0 42 0 46 0 42	12 34 1 46 12 35 1 46 12 35 1 46 12 36 1 46	6 0 13 35 6 0 13 35	3 33 3 32 3 32 3 31 3 30 3 30 3 29	3 53 2: 3 52 2: 3 50 2: 3 49 2: 3 48 2: 3 47 2: 3 45 2:	5 14 5 12 5 11 5 9 5 7	10 14 0 24 10 13 0 23 10 12 0 23 10 12 0 23 10 11 0 23 10 10 0 23 10 9 0 23
S 18 M19 T 20 W21 T 22 F 23 S 24	0 s 3	5n17 0n21 11 41 1 36 17 22 2 44 22 5 3 41 25 37 4 25	11 16 3 3 11 28 3 3 11 37 3 4 11 42 3 4	33 15 48 2 1 37 15 39 1 55 40 15 29 1 49 42 15 18 1 43 43 15 7 1 36	20 31 1 5 20 23 1 5 20 15 1 6 20 7 1 7	23 4 0 25 23 4 0 25 23 4 0 25 23 4 0 25 23 4 0 25	19 39 1 34 19 39 1 34 19 40 1 34 19 41 1 33 19 42 1 33	0 43 0 42 0 41 0 42 0 40 0 42 0 38 0 42 0 37 0 42 0 35 0 42 0 34 0 42	12 38 1 46 12 39 1 46 12 39 1 46 12 40 1 45 12 41 1 45	5 58 13 36 5 57 13 36	3 29 3 29 3 29 3 29 3 29 3 30 3 30	3 44 2: 3 43 2: 3 40 24 3 39 24 3 38 24 3 37 24	5 2 5 0 4 58 4 57 4 55	10 8 0 23 10 7 0 23 10 6 0 23 10 5 0 23 10 4 0 23 10 3 0 23 10 2 0 23
S 25 M26 T 27 W28 T 29 F 30	0 50 1 13 1 37 2 0 2 24 2 s47	28 12 5 16 26 23 5 6 23 26 4 42 19 28 4 7	11 16 3 3 10 58 3 3 10 35 3 2	10 14 32 1 18 36 14 19 1 12 30 14 6 1 6 22 13 52 1 1	19 34 1 10 19 26 1 11 19 17 1 12 19 8 1 12	23 5 0 25 23 5 0 25	19 45 1 33 19 46 1 32 19 47 1 32 19 48 1 32	0 32 0 42 0 31 0 42 0 29 0 42 0 28 0 42 0 26 0 42 0n25 0n42	12 43 1 45 12 43 1 45 12 44 1 45	5 56 13 38 5 56 13 38 5 55 13 38 5 55 13 38 5 55 13 38 5 55 13 38	3 30 3 30 3 30 3 30 3 30 3 n29	3 35 24 3 34 24 3 33 24 3 30 24 3 n29 24	4 50 4 48 4 46 4 44	10 1 0 23 10 0 0 22 9 59 0 22 9 58 0 22 9 57 0 22 9n56 0n22

 $\label{eq:Julian Day Number = 2317744.5, Delta T = 55.09 sec} \\ Ecliptic obliquity = 23°29'22, Nutation = -0°00'02, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°37'38, Lahiri = 18°44'39Greg. Calendar$

OCTOBER 1633 GC 00:00 UT

0010	, D = 11 = 0	,55 uc													00.0	0 01
Day	Sid.t	0	D	ğ	φ	ð	4	ħ)Å(¥	В	ß	v	Ç	ķ	Day
S 1	0 39 42	7 ي 59'32	11 m 57	17°R17	22 N 8	10 Ω 27	0937	5 ₹ 154	ე <u>თ</u> 38	8 M 41	25°R28	8°R47	8 Υ 43	0 Ω 47	24°R39	S 1
S 2	0 43 38	8°58'47	24°22	16 ₽ 16	23°11	11° 3	0°40	5°59	0°42	8°43	25 8 28	8°D47	8°40	0°54	24 Y 36	S 2
M 3	0 47 35	9°58'04	7 ♀ 0	15° 9	24°14	11°38	0°44	6° 4	0°45	8°45	25°27	8°R47	8°37	1° 1	24°33	M 3
T 4	0 51 31	10°57'23	19°53	14° 0	25°17	12°14	0°47	6° 9	0°49	8°47	25°26	8 Ƴ 47	8°34	1° 8	24°30	T 4
W 5	0 55 28	11°56'44	3 m 1	12°48	26°21	12°49	0°50	6°14	0°53	8°49	25°25	8°47	8°31	1°14	24°27	W 5
T 6	0 59 25	12°56'07	16°22	11°37	27°25	13°24	0°52	6°19	0°57	8°51	25°24	8°47	8°27	1°21	24°24	T 6
F 7	1 3 21	13°55'32	29°57	10°28	28°29	13°59	0°55	6°24	1° 0	8°53	25°24	8°46	8°24	1°28	24°22	F 7
S 8	1 7 18	14°54'59	13 × 743	9°23	29°34	14°34	0°57	6°29	1° 4	8°55	25°23	8°45	8°21	1°34	24°19	S 8
S 9	1 11 14	15°54'28	2 <u>7</u> °39	8°24	0 m 39	15° 9	0°59	6°34	1°8	8°57	25°22	8°45	8°18	1°41	24°16	S 9
M10	1 15 11	16°53'58	11 궁 44	7°33	1°44	15°44	1° 1	6°40	1°11	9° 0	25°21	8°D44	8°15	1°48	24°13	M10
T 11	1 19 7	17°53'30	25°55	6°52	2°49	16°19	1° 3	6°45	1°15	9° 2	25°20	8°44	8°12	1°55	24°10	T 11
W12	1 23 4	18°53'04	10≈11	6°20	3°55	16°53	1° 4	6°51	1°19	9° 4 9° 6	25°19	8°45	8° 8	2° 1	24° 7	W12
T 13 F 14	1 27 1 1 30 57	19°52'40 20°52'17	24°28 8) (45	5°59 5°D50	5° 1 6° 7	17°28 18° 2	1° 5 1° 7	6°56 7°2	1°22 1°26	9° 6 9° 8	25°19 25°18	8°46 8°47	8° 5 8° 2	2° 8 2°15	24° 4 24° 1	T 13 F 14
S 15	1 30 57	20°51'56	22°56	5°52	7°14	18°36	1° 7	7° 7	1°30	9°10	25°17	8°48	7°59	2°21	23°58	S 15
S 16	1 38 50	22°51'37	6 ℃ 59	6° 4	8°20	19°11	1° 8	7°13	1°33	9°12	25°16	8°R48	7°56	2°28	23°56	S 16
M17 T 18	1 42 47 1 46 43	23°51'20 24°51'05	20°50 4 8 25	6°27 7° 0	9°27 10°34	19°45 20°19	1° 9 1° 9	7°19 7°24	1°37 1°40	9°15 9°17	25°15 25°14	8°48 8°47	7°53 7°49	2°35 2°42	23°53 23°50	M17 T 18
W19	1 50 40	24 31 03 25°50'52	17°43	7°42	10 34 11°41	20°53	1°R 9	7°30	1°44	9°17	25°13	8°45	7°46	2°48	23°47	W19
T 20	1 54 36	26°50'41	0 Π 42	8°32	12°49	20°33	1° 9	7°36	1°47	9°21	25°12	8°42	7°43	2°55	23°44	T 20
F 21	1 58 33	27°50'32	13°22	9°29	13°57	22° 0	1° 9	7°42	1°51	9°23	25°11	8°39	7°40	3° 2	23°41	F 21
S 22	2 2 29	28°50'26	25°46	10°32	15° 5	22°34	1° 8	7°48	1°54	9°26	25°10	8°36	7°37	3° 8	23°38	S 22
S 23	2 6 26	29°50'21	7955	11°42	16°13	23° 7	1° 8	7°54	1°58	9°28	25° 9	8°34	7°33	3°15	23°35	S 23
M24	2 10 23	0ML50'19	19°54	12°56	17°21	23°41	1° 7	8° 0	2° 1	9°30	25° 8	8°32	7°30	3°22	23°32	M24
T 25	2 14 19	1°50'19	1 Ω 48	14°14	18°30	24°14	1° 6	8° 6	2° 5	9°32	25° 7	8°D32	7°27	3°28	23°29	T 25
W26	2 18 16	2°50'21	13°39	15°36	19°39	24°47	1° 4	8°12	2° 8	9°35	25° 6	8°32	7°24	3°35	23°26	W26
T 27	2 22 12	3°50'26	25°35	17° 1	20°48	25°20	1° 3	8°19	2°12	9°37	25° 5	8°34	7°21	3°42	23°24	T 27
F 28	2 26 9	4°50'32	7 m) 39	18°29	21°57	25°53	1° 1	8°25	2°15	9°39	25° 4	8°35	7°18	3°49	23°21	F 28
S 29	2 30 5	5°50'40	19°55	19°58	23° 6	26°26	0°59	8°31	2°18	9°41	25° 3	8°37	7°14	3°55	23°18	S 29
S 30	2 34 2	6°50'51	2 ჲ 28	21°29	24°15	26°59	0°57	8°37	2°21	9°44	25° 2	8°R38	7°11	4° 2	23°15	S 30
M31	2 37 58	7 M 51'03	15 ≏ 19	23 ₾ 2	25 Mp 25	27 Ω 31	0955	8 . ₹44	2 º 25	9 IL 46	258 1	8 Ƴ 38	7 Υ 8	4 Ω 9	23 Y 12	M31

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl lat
S 1	3 s11	9n18 2n23	9s36 3	s 2 13n23 0s49	18n50 1n14	23n 5 0s25	19s50 1n32	0n23 0n42	12 s46 1n45	5n54 13 s39	3n29	3n28 24n41	9n54 0n22
S 2	3 34	3 27 1 19			18 41 1 15			0 22 0 42		5 54 13 39	3 29	3 27 24 39	
M 3	3 57	2 s 3 8 0 1 0		34 12 52 0 38				0 20 0 42		5 53 13 39	3 29	3 25 24 37	
T 4 W 5	4 21 4 44	8 44 1s 1 14 35 2 10		17 12 36 0 33 59 12 20 0 27	18 23 1 16 18 14 1 17			0 19 0 42 0 17 0 42	-	5 53 13 39 5 53 13 39	3 29 3 29	3 24 24 35 3 23 24 33	
T 6	5 7	19 51 3 14		40 12 3 0 22				0 16 0 42	-	5 52 13 40	3 29	3 22 24 33	9 49 0 22
F 7	5 30	24 12 4 7			17 55 1 19			0 14 0 42	-	5 52 13 40	3 29	3 20 24 29	
S 8	5 53	27 14 4 47	4 38 0	59 11 28 0 12	17 46 1 20	23 5 0 24	19 57 1 30	0 13 0 42	12 51 1 45	5 51 13 40	3 29	3 19 24 28	9 47 0 21
S 9	6 16	28 39 5 11	3 56 0	39 11 10 0 7	17 36 1 20	23 5 0 24	19 58 1 30	0 11 0 42	12 51 1 45	5 51 13 40	3 28	3 18 24 26	9 46 0 21
M10	6 39	28 13 5 16	3 17 0	19 10 51 0 2	17 27 1 21	23 5 0 24	19 59 1 30	0 10 0 42	12 52 1 45	5 51 13 40	3 28	3 17 24 24	9 44 0 21
T 11		25 58 5 3		n 1 10 32 0n 3				0 8 0 42		5 50 13 40	3 28	3 15 24 22	
W12 T 13		22 4 4 30		20 10 13 0 8				0 7 0 42		5 50 13 40	3 29	3 14 24 20	
F 14	7 47 8 10				16 58 1 24 16 48 1 24	23 5 0 24 23 5 0 24		0 6 0 42 0 42		5 50 13 41 5 50 13 41	3 29 3 29	3 13 24 18 3 12 24 16	
S 15	8 32	4 8 1 27				23 5 0 24		0 3 0 42		5 49 13 41	3 30	3 10 24 14	
S 16	8 54	2n37 0 10	1 11 1	20 8 52 0 26	16 28 1 26	23 5 0 24	20 6 1 29	0 1 0 42	12 56 1 45	5 49 13 41	3 30	3 9 24 12	9 37 0 21
M17	9 17	9 10 1n 6	1 10 1	31 8 31 0 31	16 18 1 27	23 5 0 24	20 7 1 29	0s 0 0 42	12 57 1 45	5 49 13 41	3 30	3 8 24 10	9 36 0 21
T 18		15 10 2 17		41 8 9 0 35		23 5 0 24		0 2 0 42		5 48 13 41	3 29	3 7 24 9	7
W19				49 7 48 0 39		23 5 0 24		0 3 0 42		5 48 13 41	3 28	3 5 24 7	9 34 0 21
T 20 F 21		24 23 4 8				23 5 0 24		0 4 0 42		5 48 13 41	3 27	3 4 24 5	
S 22		27 10 4 45 28 32 5 7			15 38 1 30 15 27 1 31					5 47 13 42 5 47 13 42	3 26 3 25	3 3 24 3 3 2 24 1	9 32 0 20 9 31 0 20
S 23	11 26		-							5 47 13 42	3 24		
M24	11 47							0 9 0 42 0 10 0 42		5 46 13 42	3 24	3 0 23 59 2 59 23 57	
T 25	12 8	_,						0 11 0 42		5 46 13 42	3 23	2 58 23 55	
W26	-	20 52 4 18			14 46 1 35			0 13 0 42		5 46 13 42	3 24	2 57 23 53	
T 27	12 49	16 23 3 35	4 45 2	6 4 43 1 9	14 36 1 35	23 6 0 23	20 18 1 28	0 14 0 42	13 4 1 45	5 45 13 42	3 24	2 55 23 51	9 25 0 20
F 28					14 26 1 36			0 15 0 42		5 45 13 42	3 25	2 54 23 49	
S 29	13 30	5 33 1 41	5 57 2	1 3 54 1 15	14 15 1 37	23 6 0 23	20 20 1 27	0 17 0 42	13 5 1 45	5 45 13 42	3 25	2 53 23 47	9 22 0 20
S 30	13 50	0s28 0 34			14 5 1 38		20 21 1 27			5 44 13 42		2 52 23 45	
M31	14s 9	6s36 0s37	7 s12 11	n54 3n 4 1n21	13n55 1n39	23n 6 0s23	20 s22 1n27	0s19 0n42	13 s 7 1n45	5n44 13 s42	3n26	2n50 23n43	9n20 0n19

 $\label{eq:Julian Day Number = 2317774.5, Delta T = 55.03 sec} \\ Ecliptic obliquity = 23°29'22, Nutation = -0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°37'42, Lahiri = 18°44'43Greg. Calendar$

NOVEMBER 1633 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)វ(¥	Р	u	Ω	Ç	ę,	Day
T 1	2 41 55	8 M 51'17	28 ≏ 31	24 <u>₽</u> 36	26 m 35	28 N 3	0°R52	8 ₹ 50	2 ≏ 28	9 M .48	25°R 0	8°R37	7 Υ 5	4 Ω 15	23°R 9	T 1
W 2	2 45 52	9°51'34	12 M 2	26°10	27°45	28°36	0950	8°57	2°31	9°50	24 8 59	8 Ƴ 34	7° 2	4°22	23 ° 7	W 2
T 3	2 49 48	10°51'52	25°52	27°46	28°55	29° 8	0°47	9° 3	2°34	9°53	24°58	8°29	6°59	4°29	23° 4	T 3
F 4	2 53 45	11°52'11	9 ∡ 755	29°22	0 ♀ 5	29°40	0°44	9°10	2°38	9°55	24°56	8°24	6°55	4°36	23° 1	F 4
S 5	2 57 41	12°52'33	24° 8	0 M .58	1°15	0 m 12	0°40	9°16	2°41	9°57	24°55	8°19	6°52	4°42	22°58	S 5
S 6	3 1 38	13°52'56	8 궁 25	2°34	2°26	0°43	0°37	9°23	2°44	9°59	24°54	8°14	6°49	4°49	22°56	S 6
M 7	3 5 34	14°53'20	22°44	4°10	3°36	1°15	0°33	9°30	2°47	10° 2	24°53	8°10	6°46	4°56	22°53	M 7
T 8	3 9 31	15°53'46	6≈58	5°47	4°47	1°47	0°29	9°36	2°50	10° 4	24°52	8° 8	6°43	5° 2	22°50	T 8
W 9	3 13 28	16°54'13	21° 8	7°24	5°58	2°18	0°25	9°43	2°53	10° 6	24°51	8°D 8	6°39	5° 9	22°48	W 9
T 10	3 17 24	17°54'41	5 米 9	9° 0	7° 9	2°49	0°21	9°50	2°56	10° 8	24°50	8° 9	6°36	5°16	22°45	T 10
F 11	3 21 21	18°55'11	19° 3	10°36	8°20	3°20	0°17	9°56	2°59	10°10	24°49	8°10	6°33	5°23	22°43	F 11
S 12	3 25 17	19°55'42	2 Υ 48	12°13	9°31	3°51	0°12	10° 3	3° 2	10°13	24°48	8°R11	6°30	5°29	22°40	S 12
S 13	3 29 14	20°56'14	16°23	13°49	10°43	4°21	0° 7	10°10	3° 4	10°15	24°46	8°11	6°27	5°36	22°38	S 13
M14	3 33 10	21°56'47	29°47	15°25	11°54	4°52	0° 3	10°17	3° 7	10°17	24°45	8° 9	6°24	5°43	22°35	M14
T 15	3 37 7	22°57'22	138 0	17° 1	13° 6	5°22	29 Ⅲ 57	10°24	3°10	10°19	24°44	8° 5	6°20	5°49	22°33	T 15
W16	3 41 3	23°57'59	26° 1	18°36	14°17	5°53	29°52	10°30	3°13	10°22	24°43	7°58	6°17	5°56	22°30	W16
T 17	3 45 0	24°58'37	8 Ⅱ 48	20°12	15°29	6°23	29°47	10°37	3°16	10°24	24°42	7°50	6°14	6° 3	22°28	T 17
F 18	3 48 57	25°59'16	21°21	21°47	16°41	6°52	29°41	10°44	3°18	10°26	24°41	7°41	6°11	6° 9	22°26	F 18
S 19	3 52 53	26°59'57	39541	23°22	17°53	7°22	29°36	10°51	3°21	10°28	24°40	7°31	6° 8	6°16	22°23	S 19
S 20	3 56 50	28° 0'40	15°48	24°57	19° 5	7°52	29°30	10°58	3°23	10°30	24°39	7°23	6° 5	6°23	22°21	S 20
M21	4 0 46	29° 1'24	27°46	26°32	20°17	8°21	29°24	11° 5	3°26	10°32	24°37	7°16	6° 1	6°30	22°19	M21
T 22	4 4 43	0 才 2'09	9 Ω 38	28° 7	21°30	8°50	29°17	11°12	3°28	10°35	24°36	7°11	5°58	6°36	22°17	T 22
W23	4 8 39	1° 2'56	21°28	29°41	22°42	9°19	29°11	11°19	3°31	10°37	24°35	7° 9	5°55	6°43	22°15	W23
T 24	4 12 36	2° 3'45	3 m 22	1 √ 16	23°55	9°48	29° 5	11°26	3°33	10°39	24°34	7°D 8	5°52	6°50	22°13	T 24
F 25	4 16 32	3° 4'35	15°23	2°50	25° 7	10°17	28°58	11°33	3°36	10°41	24°33	7° 9	5°49	6°56	22°10	F 25
S 26	4 20 29	4° 5'26	27°38	4°24	26°20	10°45	28°51	11°40	3°38	10°43	24°32	7°10	5°45	7° 3	22° 8	S 26
S 27	4 24 26	5° 6'19	10 ≏ 12	5°59	27°33	11°13	28°45	11°47	3°40	10°45	24°31	7°R10	5°42	7°10	22° 6	S 27
M28	4 28 22	6° 7'13	23° 8	7°33	28°45	11°41	28°38	11°54	3°43	10°47	24°30	7° 9	5°39	7°16	22° 5	M28
T 29	4 32 19	7° 8'08	6ML29	9° 7	29°58	12° 9	28°30	12° 1	3°45	10°49	24°28	7° 5	5°36	7°23	22° 3	T 29
W30	4 36 15	8 .7 9'05	20 M 17	10 ∡ 741	1 M .11	12 M y37	28 Ⅲ 23	12 ×7 8	3 ≗ 47	10 M .51	24 8 27	6 Ƴ 59	5 Υ 33	7Ω 30	22 Υ 1	W30

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T 1	14 s29	12 s38 1	s47 7s5	l 1n50	2n39	1n24	13n44	1n40	23n 6	0 s23	20 s23	1n27	0 s20	0n42	13 s 8	1n45	5n44 13 s42	3n25	2n49	23n41	9n19	0n19
W 2	14 48	18 13 2	52 8 30	1 45	2 13	1 27	13 34	1 41	23 6	0 23	20 24	1 27	0 22	0 42	13 8	1 45	5 44 13 42	3 24	2 48	23 39	9 18	0 19
T 3	15 7	22 58 3	49 9 9	1 40	1 48	1 29	13 23	1 42	23 6	0 23	20 26	1 27	0 23	0 42	13 9	1 45	5 43 13 43	3 22	2 46	23 37	9 17	0 19
F 4	15 26	26 29 4	34 9 4	1 35	1 22	1 32	13 13		23 6	0 23	20 27	1 27	0 24	0 42	13 10	1 45	5 43 13 43	3 20	2 45		9 16	0 19
S 5	15 44	28 23 5	1 10 2	1 29	0 56	1 34	13 2	1 44	23 7	0 23	20 28	1 26	0 25	0 42	13 10	1 45	5 43 13 43	3 18	2 44	23 33	9 15	0 19
S 6	16 2	28 23 5	11 11 :	1 23	0 31	1 37	12 52	1 44	23 7	0 23	20 29	1 26	0 27	0 42	13 11	1 45	5 42 13 43	3 16	2 43	23 31	9 14	0 19
M 7	16 20	26 31 5	1 11 4	1 17	0 4	1 39	12 42	1 45	23 7	0 23	20 30	1 26	0 28	0 42	13 12	1 45	5 42 13 43	3 15	2 41	23 28	9 12	0 19
T 8	16 38	22 57 4	32 12 22	2 1 11	0 s22	1 41	12 31	1 46	23 7	0 23	20 31	1 26	0 29	0 42	13 12	1 45	5 42 13 43	3 14	2 40	23 26	9 11	0 19
W 9	16 55	18 5 3	48 13	1 4	0 48	1 43		1 47	23 7	0 22	20 32	1 26	0 30	0 42	13 13	1 45	5 42 13 43	3 14		23 24	9 10	0 19
T 10	17 12		50 13 3	0 58	1 14		12 10		23 7			1 26	0 31	0 42			5 41 13 43	_	2 38		9 9	0 19
F 11	17 29				1 41				23 7			1 26	0 32				5 41 13 43			23 20	9 8	0 18
S 12	17 46	0n40 0	29 14 50	0 44	2 7	1 48	11 50	1 50	23 7	0 22	20 35	1 26	0 34	0 42	13 15	1 45	5 41 13 43	3 15	2 35	23 18	9 7	0 18
S 13	18 2	7 8 0	n44 15 2	0 37	2 34	1 50	11 39	1 51	23 7	0 22	20 36	1 26	0 35	0 42	13 16	1 45	5 41 13 43	3 15	2 34	23 16	9 6	0 18
M14	18 18	13 12 1	54 16	0 31	3 0	1 51	11 29	1 52	23 7	0 22	20 38	1 26	0 36	0 42	13 17	1 45	5 40 13 43	3 14	2 33	23 14	9 5	0 18
T 15	18 33	18 35 2	57 16 34	0 24	3 27	1 53	11 19	1 53	23 7	0 22	20 39	1 25	0 37	0 42	13 17	1 45	5 40 13 43	3 13	2 31	23 12	9 4	0 18
W16	18 48	23 0 3	49 17	0 17	3 54	1 54	11 8	1 54	23 8	0 22	20 40	1 25	0 38	0 42	13 18	1 45	5 40 13 43	3 10	2 30	23 10	9 3	0 18
T 17	19 3	26 14 4	28 17 40	0 10	4 20	1 55	10 58	1 55	23 8	0 22	20 41	1 25	0 39	0 42	13 19	1 45	5 40 13 43	3 7	2 29	23 7	9 2	0 18
F 18	19 18	28 6 4	54 18 12	0 3	4 47	1 56	10 48	1 56	23 8	0 22	20 42	1 25	0 40	0 42	13 19	1 45	5 40 13 43	3 3	2 28		9 1	0 18
S 19	19 32	28 32 5	6 18 43	0s 3	5 13	1 57	10 38	1 57	23 8	0 22	20 43	1 25	0 41	0 43	13 20	1 45	5 39 13 42	3 0	2 26	23 3	9 0	0 18
S 20	19 45	27 34 5	3 19 13	0 10	5 40	1 58	10 28	1 58	23 8	0 21	20 44	1 25	0 42	0 43	13 21	1 45	5 39 13 42	2 56	2 25		8 59	0 18
M21	19 59	25 20 4	47 19 42	0 17	6 7	1 59	10 18		23 8	0 21	20 45	1 25	0 43	0 43	13 21	1 45	5 39 13 42	2 53		22 59	8 59	0 18
T 22	20 12	22 2 4	19 20 10	0 23	6 33	2 0	10 8	2 0	23 8	0 21	20 46	1 25	0 44	0 43	13 22	1 45	5 39 13 42	2 52		22 57	8 58	0 17
W23	20 25	17 50 3	40 20 3	0 30	6 59	2 0	9 58	2 1	23 8	0 21	20 47	1 25	0 45	0 43	13 23	1 45	5 38 13 42			22 55	8 57	0 17
T 24	20 37		51 21		7 26	2 1	9 48	2 2			20 48	1 25	0 46		13 23	1 45	5 38 13 42			22 52	8 56	0 17
F 25	20 49		54 21 2		7 52	2 1	9 38	2 3	23 8		20 49	1 25	0 47	0 43	-	1 45	5 38 13 42			22 50	8 55	0 17
S 26	21 1	1 43 0	51 21 52	0 49	8 18	2 1	9 28	2 4	23 8	0 21	20 50	1 25	0 48	0 43	13 24	1 45	5 38 13 42	2 51	2 18	22 48	8 54	0 17
S 27	21 12	4s18 0	s16 22 1:	0 55	8 44	2 1	9 18	2 5	23 8	0 21	20 51	1 24	0 49	0 43	13 25	1 45	5 38 13 42	2 51	2 16	22 46	8 53	0 17
M28	21 22	10 19 1	24 22 3	7 1 1	9 10	2 2	9 8	2 6		0 21	20 52	1 24	0 49	0 43	13 26	1 45	5 38 13 42	2 51	2 15	22 44	8 53	0 17
		-	30 22 5	1 6	9 35	2 2	8 59	2 7	23 8	0 21	20 53	1 24	0 50	0 43	13 26	1 45	5 37 13 42	2 49	2 14	22 41	8 52	0 17
W30	21 s43	21 s12 3	s29 23 s1'	1 s12	10s 1	2n 1	8n49	2n 8	23n 8	0 s20	20 s54	1n24	0 s51	0n43	13 s27	1n45	5n37 13 s42	2n47	2n12	22n39	8n51	0n17

Julian Day Number = 2317805.5, Delta T = 54.96 sec Ecliptic obliquity = 23°29'22, Nutation = -0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°37'47, Lahiri = 18°44'47Greg. Calendar

DECEMBER 1633 GC 00:00 UT

DLUL	DEN 1	LUJJ UC													00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	♂	4	ħ)f(并	Р	n	ນ	Ç	ķ	Day
T 1	4 40 12	9 ∡ 10'03	4 ₹ 28	12 √ 15	2M24	13 Mp 4	28°R16	12 × 15	3 ≏ 49	10 M .54	24°R26	6°R50	5 Υ 30	7 Ω 37	21°R59	T 1
F 2	4 44 8	10°11'02	18°58	13°50	3°37	13°31	28耳 9	12°22	3°51	10°56	24 8 25	6 Ƴ 40	5°26	7°43	21 Y 57	F 2
S 3	4 48 5	11°12'02	3 ⋜ 41	15°24	4°50	13°58	28° 1	12°30	3°53	10°58	24°24	6°30	5°23	7°50	21°56	S 3
S 4	4 52 1	12°13'03	18°27	16°58	6° 4	14°25	27°54	12°37	3°55	11° 0	24°23	6°20	5°20	7°57	21°54	S 4
M 5	4 55 58	13°14'05	3≈ 9	18°32	7°17	14°51	27°46	12°44	3°57	11° 2	24°22	6°12	5°17	8° 3	21°53	M 5
T 6	4 59 55	14°15'07	17°41	20° 7	8°30	15°17	27°38	12°51	3°59	11° 4	24°21	6° 7	5°14	8°10	21°51	T 6
W 7	5 3 51	15°16'09	1) (57	21°41	9°44	15°43	27°30	12°58	4° 1	11° 5	24°20	6° 4	5°11	8°17	21°50	W 7
T 8	5 7 48	16°17'12	15°58	23°15	10°57	16° 9	27°23	13° 5	4° 2	11° 7	24°19	6°D 3	5° 7	8°24	21°48	T 8
F 9	5 11 44	17°18'15	29°41	24°50	12°11	16°34	27°15	13°12	4° 4	11° 9	24°18	6°R 4	5° 4	8°30	21°47	F 9
S 10	5 15 41	18°19'19	13 Y 9	26°25	13°24	16°59	27° 7	13°19	4° 6	11°11	24°17	6° 4	5° 1	8°37	21°45	S 10
S 11	5 19 37	19°20'23	26°24	27°59	14°38	17°24	26°59	13°26	4° 7	11°13	24°16	6° 2	4°58	8°44	21°44	S 11
M12	5 23 34	20°21'28	9 8 25	29°34	15°51	17°49	26°51	13°33	4° 9	11°15	24°15	5°58	4°55	8°50	21°43	M12
T 13	5 27 30	21°22'33	22°16	1る 9	17° 5	18°13	26°43	13°40	4°10	11°17	24°14	5°50	4°51	8°57	21°42	T 13
W14	5 31 27	22°23'38	4 ∏ 57	2°44	18°19	18°37	26°34	13°47	4°12	11°19	24°13	5°40	4°48	9° 4	21°41	W14
T 15	5 35 24	23°24'44	17°27	4°18	19°32	19° 1	26°26	13°54	4°13	11°20	24°12	5°28	4°45	9°10	21°40	T 15
F 16	5 39 20	24°25'51	29°48	5°53	20°46	19°24	26°18	14° 1	4°15	11°22	24°11	5°13	4°42	9°17	21°39	F 16
S 17	5 43 17	25°26'58	119559	7°28	22° 0	19°47	26°10	14° 8	4°16	11°24	24°10	4°59	4°39	9°24	21°38	S 17
S 18	5 47 13	26°28'05	24° 1	9° 3	23°14	20°10	26° 2	14°15	4°17	11°26	24° 9	4°45	4°36	9°31	21°37	S 18
M19	5 51 10	27°29'13	5 Ω 56	10°37	24°28	20°33	25°54	14°22	4°18	11°27	24° 8	4°34	4°32	9°37	21°36	M19
T 20	5 55 6	28°30'22	17°46	12°11	25°42	20°55	25°46	14°29	4°19	11°29	24° 7	4°25	4°29	9°44	21°35	T 20
W21	5 59 3	29°31'30	29°35	13°45	26°56	21°17	25°37	14°36	4°20	11°31	24° 6	4°19	4°26	9°51	21°35	W21
T 22	6 3 0	0 궁 32'40	11 m 26	15°18	28°10	21°38	25°29	14°43	4°21	11°32	24° 5	4°16	4°23	9°57	21°34	T 22
F 23	6 6 5 6	1°33'49	23°24	16°51	29°24	21°59	25°21	14°50	4°22	11°34	24° 4	4°15	4°20	10° 4	21°34	F 23
S 24	6 10 53	2°35'00	5 ₾ 35	18°23	0 ∡ 38	22°20	25°13	14°57	4°23	11°36	24° 4	4°15	4°17	10°11	21°33	S 24
S 25	6 14 49	3°36'10	18° 4	19°54	1°52	22°41	25° 5	15° 3	4°24	11°37	24° 3	4°15	4°13	10°17	21°33	S 25
M26	6 18 46	4°37'21	0 M 57	21°23	3° 7	23° 1	24°57	15°10	4°25	11°39	24° 2	4°13	4°10	10°24	21°32	M26
T 27	6 22 42	5°38'33	14°16	22°51	4°21	23°20	24°49	15°17	4°26	11°40	24° 1	4° 9	4° 7	10°31	21°32	T 27
W28	6 26 39	6°39'45	28° 6	24°18	5°35	23°40	24°42	15°24	4°26	11°42	24° 0	4° 2	4° 4	10°37	21°32	W28
T 29	6 30 35	7°40'57	12 × 25	25°42	6°49	23°59	24°34	15°31	4°27	11°43	24° 0	3°52	4° 1	10°44	21°31	T 29
F 30	6 34 32	8°42'09	2 <u>7°</u> 9	2 <u>7</u> ° 4	8° 4	24°17	24°26	15°37	4°28	11°45	23°59	3°41	3°57	10°51	21°31	F 30
S 31	6 38 29	9 궁 43'21	12 る 10	28 궁 22	9 ∡ 18	24 Mp 35	24 Ⅱ 18	15 ~ 144	4 ≏ 28	11 M .46	23 8 58	3 Ƴ 29	3 Ƴ 54	10 N 58	21 Y 31	S 31

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T 1 F 2 S 3	22 1	27 49 4 49	5 23 s35 1 s1 9 23 53 1 2 2 24 9 1 2		8n40 2n10 8 30 2 11 8 21 2 12	23 8 0 20	20 s55 1n24 20 56 1 24 20 57 1 24	0 53 0 43	13 s28 1 n45 13 28 1 45 13 29 1 45	5n37 13 s42 5 37 13 42 5 37 13 41	2n43 2 39 2 35	2n11 22n37 2 10 22 35 2 9 22 33	8n50 0n17 8 50 0 16 8 49 0 16
S 4 M 5 T 6 W 7 T 8	22 26	23 52 4 30 19 10 3 4 13 27 2 5	5 24 23 1 3 0 24 37 1 3 7 24 49 1 4 1 24 59 1 4 5 25 9 1 5	37 12 5 2 0 12 12 29 1 59 16 12 53 1 58	8 11 2 13 8 2 2 14 7 53 2 15 7 44 2 16 7 35 2 17	23 8 0 20 23 8 0 20 23 8 0 20	20 59 1 24 21 0 1 24 21 1 1 24	0 55 0 43 0 56 0 43 0 56 0 43	13 29 1 45 13 30 1 45 13 31 1 45 13 31 1 45 13 32 1 45	5 37 13 41 5 37 13 41 5 36 13 41 5 36 13 41 5 36 13 41	2 31 2 28 2 26 2 25 2 25	2 7 22 30 2 6 22 28 2 5 22 26 2 4 22 24 2 2 22 21	8 48 0 16 8 47 0 16 8 47 0 16 8 46 0 16 8 46 0 16
F 9 S 10 S 11	22 53 22 58 23 4	5n47 0n38	1 25 17 1 5 3 25 23 1 5 5 25 29 2		7 26 2 19 7 18 2 20 7 9 2 21	23 8 0 19	21 4 1 24	0 58 0 43	13 32 1 45 13 33 1 45	5 36 13 41 5 36 13 40	2 25 2 25 2 24	2 1 22 19 2 0 22 17 1 59 22 15	8 45 0 16 8 44 0 16 8 44 0 16
M12 T 13	23 8 23 12 23 16 23 19 23 22	17 18 2 4' 21 53 3 38 25 24 4 18 27 38 4 4: 28 28 4 58	7 25 32 2 8 25 35 2 8 25 35 2	3 14 49 1 53 5 15 11 1 52 8 15 32 1 51 9 15 54 1 50 1 16 15 1 48	7 9 2 21 7 0 2 22 6 52 2 23 6 44 2 24 6 35 2 26 6 27 2 27 6 19 2 28	23 8 0 19 23 8 0 19 23 8 0 19 23 8 0 18 23 8 0 18	21 5 1 24 21 6 1 24 21 7 1 24 21 8 1 24	0 59 0 43 1 0 0 43 1 1 0 43 1 1 0 43 1 2 0 43	13 35 1 46 13 35 1 46		2 24 2 22 2 19 2 15 2 10 2 5 1 59	1 59 22 15 1 57 22 12 1 56 22 10 1 55 22 8 1 54 22 5 1 52 22 3 1 51 22 1	8 44 0 16 8 43 0 16 8 43 0 15 8 42 0 15 8 42 0 15 8 41 0 15 8 41 0 15
S 18 M19 T 20 W21 T 22 F 23 S 24	23 27 23 28 23 29 23 29 23 29 23 29 23 28	22 58 4 1' 19 1 3 33 14 20 2 52 9 6 1 58 3 30 0 5'	2 25 7 2 1 2 24 57 2 1 3 24 45 2 7 24 32 2	2 17 15 1 43 2 17 35 1 42	6 11 2 29 6 4 2 31 5 56 2 32 5 49 2 33 5 41 2 34 5 34 2 36 5 27 2 37	23 8 0 18 23 8 0 18 23 7 0 18 23 7 0 17 23 7 0 17	21 11 1 23 21 11 1 23 21 12 1 23 21 13 1 23 21 14 1 23 21 15 1 23 21 15 1 23	1 3 0 44 1 3 0 44 1 4 0 44 1 4 0 44 1 4 0 44	13 37 1 46 13 38 1 46	5 36 13 39 5 36 13 39 5 36 13 39 5 36 13 39 5 36 13 38 5 36 13 38 5 36 13 38	1 54 1 49 1 46 1 43 1 42 1 42 1 42	1 50 21 59 1 48 21 56 1 47 21 54 1 46 21 52 1 45 21 49 1 43 21 47 1 42 21 45	8 40 0 15 8 40 0 15 8 40 0 15 8 39 0 15 8 39 0 15 8 39 0 14 8 38 0 14
S 25 M26 T 27 W28 T 29 F 30 S 31	23 16 23 12	13 57 2 10 19 15 3 14 23 44 4 4 26 57 4 40 28 26 4 58	5 23 43 1 5 4 23 24 1 5 4 23 3 1 4 0 22 41 1 4 8 22 19 1 3	52 19 37 1 28 17 19 52 1 26	5 20 2 38 5 13 2 40 5 7 2 41 5 0 2 42 4 54 2 44 4 48 2 45 4n42 2n46	23 7 0 17 23 7 0 17 23 6 0 17 23 6 0 16 23 6 0 16	21 16 1 23 21 17 1 23 21 18 1 23 21 19 1 23 21 19 1 23 21 20 1 23 21 s21 1n23	1 5 0 44 1 6 0 44 1 6 0 44 1 6 0 44 1 6 0 44	-	5 36 13 37 5 36 13 37 5 36 13 37 5 36 13 37 5 36 13 37	1 41 1 41 1 39 1 36 1 33 1 28 1n23	1 41 21 42 1 40 21 40 1 38 21 37 1 37 21 35 1 36 21 33 1 35 21 30 1n33 21n28	8 38 0 14 8 38 0 14 8 38 0 14 8 38 0 14 8 37 0 14 8 37 0 14 8 37 0 014

Julian Day Number = 2317835.5, Delta T = 54.90 sec Ecliptic obliquity = $23^{\circ}29'21$, Nutation = $-0^{\circ}00'03$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}37'51$, Lahiri = $18^{\circ}44'51$ Greg. Calendar