

# Astrodienst Ephemeris Tables for the year 1613

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 1613 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	♂	24	ħ	)મું(	¥	Р	R	Ω	Ç	ķ	Day
T 1	6 42 45	10 <b>ට</b> 50'31	0832	16 <b>ට</b> 52	25 <b>M</b> 27	9°R31	26 <b>m</b> )24	13 <b>¥</b> 0	23°R40	26°R30	3°R55	21825	20 <b>8</b> 0	26 <b>)</b> 35	21 <b>3</b> 43	T 1
W 2	6 46 41	11°51'41	12°44	18°31	26°35	9П22	26°26	13° 5	23 <b>II</b> 38	26m/29	3 <b>8</b> 55	21°26	19°57	26°42	21°48	W 2
T 3	6 50 38	12°52'50	25°15	20°11	27°43	9°13	26°28	13°10	23°35	26°29	3°54	21°R27	19°54	26°49	21°53	T 3
F 4	6 54 35	13°53'58	8 <b>I</b> 6	21°51	28°51	9° 4	26°29	13°14	23°33	26°29	3°54	21°25	19°51	26°55	21°59	F 4
S 5	6 58 31	14°55'07	21°21	23°31	29°59	8°57	26°30	13°19	23°31	26°29	3°54	21°21	19°48	27° 2	22° 4	S 5
S 6	7 2 28	15°56'14	4959	25°11	1 <b>√</b> 8	8°51	26°31	13°24	23°28	26°29	3°53	21°15	19°45	27° 9	22° 9	S 6
M 7	7 6 24	16°57'22	18°58	26°51	2°16	8°45	26°32	13°29	23°26	26°28	3°53	21° 7	19°41	27°15	22°15	M 7
T 8	7 10 21	17°58'29	3 <b>Ω</b> 15	28°32	3°25	8°40	26°33	13°35	23°24	26°28	3°53	20°57	19°38	27°22	22°20	T 8
W 9	7 14 17	18°59'35	17°43	0≈12	4°34	8°36	26°33	13°40	23°21	26°27	3°53	20°48	19°35	27°29	22°25	W 9
T 10	7 18 14	20° 0'42	2 Mp 16	1°52	5°43	8°33	26°33	13°45	23°19	26°27	3°53	20°39	19°32	27°35	22°31	T 10
F 11	7 22 10	21° 1'47	16°47	3°32	6°53	8°30	26°R33	13°51	23°17	26°27	3°52	20°32	19°29	27°42	22°36	F 11
S 12	7 26 7	22° 2'53	1 <b>₾</b> 10	5°12	8° 2	8°29	26°33	13°56	23°15	26°26	3°52	20°28	19°26	27°49	22°41	S 12
S 13	7 30 4	23° 3'58	15°23	6°51	9°12	8°28	26°33	14° 2	23°13	26°26	3°52	20°26	19°22	27°56	22°47	S 13
M14	7 34 0	24° 5'03	29°24	8°29	10°21	8°D28	26°32	14° 7	23°10	26°25	3°52	20°D26	19°19	28° 2	22°52	M14
T 15	7 37 57	25° 6'08	13 <b>M</b> .12	10° 6	11°31	8°28	26°32	14°13	23° 8	26°24	3°52	20°R26	19°16	28° 9	22°57	T 15
W16	7 41 53	26° 7'12	26°48	11°41	12°41	8°30	26°31	14°19	23° 6	26°24	3°52	20°26	19°13	28°16	23° 3	W16
T 17	7 45 50	27° 8'16	10 <b>×</b> 13	13°15	13°51	8°32	26°30	14°24	23° 4	26°23	3°D52	20°25	19°10	28°22	23° 8	T 17
F 18	7 49 46	28° 9'19	23°27	14°46	15° 1	8°34	26°28	14°30	23° 2	26°23	3°52	20°20	19° 6	28°29	23°13	F 18
S 19	7 53 43	29°10'22	6 <b>ප</b> 31	16°15	16°12	8°38	26°27	14°36	23° 0	26°22	3°52	20°13	19° 3	28°36	23°18	S 19
S 20	7 57 40	0≈11'24	19°23	17°41	17°22	8°42	26°25	14°42	22°59	26°21	3°52	20° 3	19° 0	28°42	23°24	S 20
M21	8 1 36	1°12'25	2≈ 4	19° 2	18°33	8°47	26°23	14°48	22°57	26°20	3°52	19°50	18°57	28°49	23°29	M21
T 22	8 5 33	2°13'26	14°34	20°20	19°43	8°53	26°21	14°54	22°55	26°20	3°52	19°37	18°54	28°56	23°34	T 22
W23	8 9 29	3°14'25	26°51	21°32	20°54	8°59	26°19	15° 0	22°53	26°19	3°52	19°23	18°51	29° 2	23°40	W23
T 24	8 13 26	4°15'23	8 <b>∺</b> 58	22°38	22° 5	9° 6	26°17	15° 6	22°51	26°18	3°53	19°11	18°47	29° 9	23°45	T 24
F 25	8 17 22	5°16'20	20°56	23°38	23°15	9°14	26°14	15°13	22°50	26°17	3°53	19° 1	18°44	29°16	23°50	F 25
S 26	8 21 19	6°17'15	2 <b>Ƴ</b> 47	24°30	24°26	9°22	26°11	15°19	22°48	26°16	3°53	18°53	18°41	29°23	23°55	S 26
S 27	8 25 15	7°18'10	14°35	25°13	25°37	9°31	26° 8	15°25	22°46	26°15	3°53	18°49	18°38	29°29	24° 1	S 27
M28	8 29 12	8°19'03	26°25	25°48	26°48	9°41	26° 5	15°32	22°45	26°14	3°53	18°46	18°35	29°36	24° 6	M28
T 29	8 33 8	9°19'54	8 <b>8</b> 22	26°13	28° 0	9°51	26° 2	15°38	22°43	26°13	3°54	18°D46	18°31	29°43	24°11	T 29
W30	8 37 5	10°20'44	20°32	26°27	29°11	10° 2	25°58	15°45	22°42	26°12	3°54	18°R46	18°28	29°49	24°16	W30
T 31	8 41 2	11≈21'33	2 <b>II</b> 59	26°R30	0중22	10 <b>Ⅱ</b> 13	25 <b>m</b> 54	15 <b>米</b> 51	22 <b>II</b> 40	26 <b>M</b> 11	3 <b>8</b> 54	18 <b>8</b> 45	18 <b>8</b> 25	29 <b>米</b> 56	24 <b>ට</b> 21	T 31

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T 1	23 s 3	9n57		24 s 30				24n52	2n58	2n39	1n19	8 s 3 4		23n31	0n11	2n37	1n20		16s19		17n47		15 s20	6n29
W 2	22 58			24 18				24 50	2 58	2 38	1 20	8 32		23 31	0 11	2 37	1 20	-	16 19		17 46		15 19	6 29
T 3		19 27	0n20		2 7			24 49	2 58	2 38	1 20	8 30		23 31	0 11		1 20	-	16 19		17 45		15 19	6 29
F 4	22 46		1 28					24 48	2 59	2 38	1 20	8 28		23 31	0 11	2 38	1 20		16 18		17 44		15 18	6 29
S 5	22 39	25 45	2 33	23 31	2 7	17 29	2 46	24 47	2 59	2 37	1 20	8 26	2 2	23 30	0 11	2 38	1 20	2 31	16 18	18 8	17 43	4 57	15 17	6 29
S 6	_	26 55		23 12				24 46	2 59	2 37	1 21	8 24	2 1	23 30	-		1 20	-	16 18		17 43		15 16	6 29
M 7		26 24	-	22 52				24 45	2 59	2 37	1 21	8 22	2 1	23 30			1 20	-	16 17		17 42		15 15	6 29
T 8		24 10		22 30				24 44	2 58	2 37	1 21	8 20		23 30			1 20	-	16 17		17 41		15 15	6 29
W 9		20 22						24 43	2 58	2 37	1 22	8 18		23 30			1 21				17 40		15 14	6 29
T 10		15 19		21 41		18 43		24 42	2 58	2 37	1 22	8 16		23 30			1 21				17 39		15 13	6 28
F 11	21 51			21 14				24 42	2 58	2 38	1 22	8 14	2 1			2 39	1 21		16 16		17 38	4 38		6 28
S 12	21 41	3 4	3 51	20 46	1 48	19 10	2 33	24 41	2 58	2 38	1 22	8 11	2 1	23 30	0 11	2 39	1 21	2 30	16 16	17 54	17 37	4 34	15 11	6 28
S 13	21 31	3 s22	2 55	20 16	1 43	19 23	2 31	24 41	2 57	2 38	1 23	8 9	2 1	23 30	0 11	2 39	1 21	2 29	16 15	17 54	17 37	4 31	15 10	6 28
M14	21 20	9 34	1 50	19 45	1 37	19 36	2 29	24 40	2 57	2 39	1 23	8 7	2 0	23 30	0 11	2 40	1 21	2 29	16 15	17 54	17 36	4 28	15 10	6 28
T 15		15 13		19 13	1 31			24 40	2 57	2 39	1 23	8 5	2 0		0 11	2 40	1 21	2 29		-, -,	17 35	4 25		6 29
W16	20 58			18 39				24 40	2 56	2 40	1 24	8 2	2 0		0 11	2 40	1 21	2 28			17 34	4 22		6 29
T 17		23 44	1 43					24 40	2 56	2 41	1 24	8 0	2 0		0 11	2 41	1 21	2 28	-		17 33	4 19		6 29
F 18	20 35			17 30				24 40	2 55	2 41	1 24	7 58	2 0			2 41	1 21				17 32	4 15		6 29
S 19	20 22	26 58	3 39	16 54	0 57	20 31	2 16	24 40	2 55	2 42	1 24	7 55	2 0	23 29	0 11	2 41	1 21	2 27	16 13	17 50	17 31	4 12	15 5	6 29
S 20	20 9	26 22	4 19	16 18	0 46	20 40	2 14	24 40	2 54	2 43	1 25	7 53	2 0	23 29	0 11	2 42	1 21	2 27	16 13	17 47	17 30	4 9	15 4	6 29
M21	19 56	24 24	4 47	15 41	0 34	20 49		24 40	2 54	2 44	1 25	7 50	2 0		0 11	2 42	1 21				17 30	4 6	15 3	6 29
T 22		21 16		15 5	0 22	20 58		24 41	2 53	2 45	1 25	7 48	2 0	-		2 42	1 21	2 26	16 12		17 29	4 3		6 29
W23		17 15		14 29	0 8	-		24 41	2 53	2 46	1 26	7 45	2 0			2 43	1 21	-	16 12		17 28	3 59		6 29
T 24		12 36		13 54	0n 6			24 42	2 52	2 48	1 26	7 43		23 29		_	1 21	-	16 11		17 27	3 56		6 29
F 25	19 0		-	13 21		21 20		24 42	2 51	2 49	1 26	7 40		23 28		_	1 21				17 26	3 53		6 29
S 26	18 45	2 13	3 38	12 49	0 36	21 27	1 56	24 43	2 51	2 50	1 26	7 38	1 59	23 28	0 11	2 44	1 21	2 25	16 11	17 29	17 25	3 50	14 59	6 29
S 27	18 29	3n 8	2 50	12 19	0 53	21 32	1 53	24 44	2 50	2 52	1 27	7 35		23 28		2 44	1 21	2 24	16 10	17 27	17 24	3 47	14 58	6 29
M28	18 13			11 51	1 9			24 45	2 50	2 53	1 27	7 33		23 28		2 45	1 21	2 24	16 10		17 23		14 57	6 29
T 29		13 28		11 27	1 27			24 46	2 49	2 55	1 27	7 30		23 28		-	1 21		16 10		17 23		14 56	6 30
W30	17 41	-		11 6		21 46		24 47	2 48	2 56	1 27	7 28		23 28		-			16 9		17 22		14 55	6 30
T 31	17 s25	22n 1	1n15	10s49	2n 1	21 s49	1n40	24n48	2n48	2n58	1n28	7 s25	1 s59	23n28	0n11	2n46	1n22	2 s23	16s 9	17n26	17n21	3 s34	14 s 5 4	6n30

Julian Day Number = 2310196.5, Delta T = 73.44 sec Ecliptic obliquity =  $23^{\circ}29'28$ , Nutation = -  $0^{\circ}00'13$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}20'21$ , Lahiri =  $18^{\circ}27'21$ Greg. Calendar

#### FEBRUARY 1613 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)ф(	¥	Р	n	Ω	Ç	ķ	Day
F 1	8 44 58	12≈22'20	15 <b>Ⅱ</b> 49	26°R23	1 <b>ප</b> 34	10Ⅱ25	25°R51	15 <b>)</b> 58	22°R39	26°R10	3 <b>8</b> 54	18°R43	18822	<b>0</b> Υ 3	24 <b>궁</b> 26	F 1
S 2	8 48 55	13°23'06	29° 6	26≈ 5	2°45	10°38	25 <b>m</b> 47	16° 4	22 <b>II</b> 37	26Mp 9	3°55	18 <b>8</b> 38	18°19	0° 9	24°31	S 2
S 3	8 52 51	14°23'51	12952	25°36	3°56	10°51	25°42	16°11	22°36	26° 8	3°55	18°31	18°16	0°16	24°37	S 3
M 4	8 56 48	15°24'33	27° 5	24°57	5°8	11° 4	25°38	16°18	22°35	26° 7	3°55	18°20	18°12	0°23	24°42	M 4
T 5	9 0 44	16°25'15	11 <b>Ω</b> 41	24° 9	6°20	11°18	25°33	16°25	22°33	26° 6	3°56	18° 9	18° 9	0°29	24°47	T 5
W 6	9 441	17°25'55	26°34	23°13	7°31	11°33	25°29	16°31	22°32	26° 4	3°56	17°57	18° 6	0°36	24°52	W 6
T 7	9 8 38	18°26'33	11 <b>m</b> 33	22°12	8°43	11°48	25°24	16°38	22°31	26° 3	3°57	17°46	18° 3	0°43	24°57	T 7
F 8	9 12 34	19°27'10	26°31	21° 6	9°55	12° 3	25°19	16°45	22°30	26° 2	3°57	17°37	18° 0	0°49	25° 2	F 8
S 9	9 16 31	20°27'46	11 <b>≏</b> 17	19°57	11° 7	12°19	25°14	16°52	22°29	26° 1	3°58	17°31	17°57	0°56	25° 7	S 9
S 10	9 20 27	21°28'21	25°46	18°48	12°19	12°36	25° 8	16°59	22°28	25°59	3°58	17°27	17°53	1° 3	25°11	S 10
M11	9 24 24	22°28'54	9MJ56	17°40	13°31	12°53	25° 3	17° 6	22°27	25°58	3°59	17°26	17°50	1°10	25°16	M11
T 12	9 28 20	23°29'26	23°45	16°35	14°43	13°10	24°57	17°13	22°26	25°57	3°59	17°26	17°47	1°16	25°21	T 12
W13	9 32 17	24°29'57	7 <b>₹</b> 14	15°33	15°55	13°28	24°52	17°20	22°25	25°55	4° 0	17°26	17°44	1°23	25°26	W13
T 14	9 36 13	25°30'27	20°26	14°37	17° 7	13°46	24°46	17°27	22°25	25°54	4° 0	17°24	17°41	1°30	25°31	T 14
F 15	9 40 10	26°30'56	3 <b>云</b> 24	13°48	18°19	14° 4	24°40	17°34	22°24	25°53	4° 1	17°19	17°37	1°36	25°36	F 15
S 16	9 44 7	27°31'23	16° 8	13° 5	19°31	14°23	24°33	17°41	22°23	25°51	4° 2	17°12	17°34	1°43	25°40	S 16
S 17	9 48 3	28°31'48	28°42	12°29	20°44	14°42	24°27	17°48	22°22	25°50	4° 2	17° 1	17°31	1°50	25°45	S 17
M18	9 52 0	29°32'12	11≈ 6	12° 1	21°56	15° 2	24°21	17°56	22°22	25°48	4° 3	16°49	17°28	1°56	25°50	M18
T 19	9 55 56	0 <b>)</b> 32'35	23°21	11°40	23° 8	15°22	24°14	18° 3	22°21	25°47	4° 4	16°35	17°25	2° 3	25°54	T 19
W20	9 59 53	1°32'55	5 <b>)</b> €28	11°26	24°21	15°43	24° 8	18°10	22°21	25°46	4° 4	16°20	17°22	2°10	25°59	W20
T 21	10 3 49	2°33'14	17°27	11°D19	25°33	16° 3	24° 1	18°17	22°20	25°44	4° 5	16° 8	17°18	2°16	26° 3	T 21
F 22	10 7 46	3°33'31	29°20	11°19	26°46	16°25	23°54	18°25	22°20	25°43	4° 6	15°57	17°15	2°23	26° 8	F 22
S 23	10 11 42	4°33'46	11 <b>Y</b> 9	11°26	27°58	16°46	23°47	18°32	22°20	25°41	4° 7	15°49	17°12	2°30	26°12	S 23
S 24	10 15 39	5°33'59	22°56	11°39	29°11	17° 8	23°40	18°39	22°19	25°40	4° 7	15°44	17° 9	2°36	26°17	S 24
M25	10 19 35	6°34'10	4846	11°57	0≈23	17°30	23°33	18°46	22°19	25°38	4° 8	15°41	17° 6	2°43	26°21	M25
T 26	10 23 32	7°34'19	16°42	12°21	1°36	17°52	23°26	18°54	22°19	25°36	4° 9	15°D40	17° 3	2°50	26°25	T 26
W27	10 27 29	8°34'26	28°49	12°49	2°48	18°15	23°18	19° 1	22°19	25°35	4°10	15°41	16°59	2°56	26°30	W27
T 28	10 31 25	9 <b>)</b> 34'31	11 <b>II</b> 13	13 <b>≈</b> 23	4≈ 1	18 <b>Ⅲ</b> 38	23 Mp 11	19 <b>∺</b> 8	22°D19	25 <b>m</b> 33	4 <b>8</b> 11	15°R41	16 <b>8</b> 56	3 <b>Y</b> 3	26 <b>궁</b> 34	T 28

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F 1 S 2	17s 8 16 50	-			24n49 2n47 24 50 2 46	3n 0 1n28 3 2 1 28		23n28 0n11 23 28 0 11	2n46 1n22 2 47 1 22		17n26 17n20 17 24 17 19		14 s53 6n30 14 52 6 30
S 3 M 4	16 33 16 15		10 22 2		24 51 2 45 24 52 2 45	3 4 1 28 3 6 1 29		23 28 0 11 23 28 0 11	2 47 1 22 2 48 1 22		17 22 17 18 17 20 17 17	-	14 51 6 30 14 50 6 30
T 5	15 57		10 26 3	15 21 57 1 23	24 53 2 44 24 55 2 43	3 8 1 29 3 10 1 29	7 12 1 59	23 28 0 11 23 28 0 11 23 28 0 11	-	2 20 16 7	17 16 17 16 17 13 17 16	3 18	14 48 6 31 14 47 6 31
T 7 F 8	15 20 15 1		10 47 3	33 21 56 1 16	24 56 2 43 24 58 2 42	3 12 1 29 3 14 1 30		23 27 0 11	2 49 1 22 2 50 1 22	2 20 16 6	17 10 17 15 17 7 17 14	3 11	14 46 6 31 14 45 6 31
S 9	14 42	1 s44 2 58	11 20 3	43 21 52 1 9	24 59 2 41	3 16 1 30	7 1 1 58	23 27 0 11	2 50 1 22	2 19 16 6	17 6 17 13	3 5	14 44 6 31
S 10 M11 T 12	14 23 14 3 13 43	14 12 0 40	12 2 3		25 0 2 40 25 2 2 40 25 3 2 39	3 19 1 30 3 21 1 30 3 23 1 30	6 55 1 58	23 27 0 11 23 27 0 11 23 27 0 11	2 51 1 22 2 52 1 22 2 52 1 22	2 18 16 5	17 5 17 12 17 4 17 11 17 4 17 10	2 59	14 43 6 32 14 42 6 32 14 41 6 32
W13 T 14	13 23	23 15 1 43	12 47 3	35 21 37 0 55 28 21 32 0 52	25 5 2 38	3 26 1 31 3 28 1 31	6 50 1 58	23 27 0 11 23 27 0 11 23 27 0 11	2 53 1 22 2 53 1 22 2 53 1 22	2 17 16 4	17 4 17 18 17 4 17 8	2 52	14 40 6 32 14 39 6 33
F 15 S 16	12 42 12 22			19 21 26 0 48 9 21 20 0 45		3 31 1 31 3 34 1 31		23 27 0 11 23 27 0 11	2 54 1 22 2 54 1 22		17 2 17 8 17 0 17 7		14 38 6 33 14 37 6 33
S 17 M18					25 11 2 35 25 12 2 34	3 36 1 31 3 39 1 32		23 27 0 11 23 27 0 11	2 55 1 22 2 56 1 22		16 57 17 6 16 54 17 5		14 36 6 33 14 35 6 34
T 19 W20	10 57	13 56 4 44	15 7 2	21 20 47 0 31	25 14 2 34 25 15 2 33	3 42 1 32 3 45 1 32	6 30 1 58	23 27 0 11 23 27 0 11	2 56 1 22 2 57 1 22	2 13 16 2	16 50 17 4 16 46 17 3	2 29	14 34 6 34 14 32 6 34
T 21 F 22 S 23	10 35 10 13 9 52	3 37 3 40	15 35 1	55 20 27 0 24	25 17 2 32 25 18 2 31 25 20 2 31	3 47 1 32 3 50 1 32 3 53 1 32	6 24 1 58	23 27 0 11 23 27 0 11 23 27 0 11	2 57 1 22 2 58 1 22 2 59 1 22	2 12 16 2	16 42 17 2 16 39 17 1 16 36 17 0	2 23	14 31 6 34 14 30 6 35 14 29 6 35
S 24 M25	9 29		15 55 1	28 20 5 0 17	25 21 2 30 25 23 2 29		6 18 1 58	23 27 0 11 23 27 0 11 23 27 0 11	2 59 1 22	2 11 16 1	16 35 16 59 16 34 16 59	2 17	14 28 6 35 14 27 6 36
T 26 W27	, ,	16 57 On 5	16 9 1	2 19 41 0 10	25 24 2 28 25 25 2 2 28	3 59 1 33 4 2 1 33 4 5 1 33	6 13 1 58	23 27 0 11 23 27 0 11 23 27 0 11		2 10 16 0	16 34 16 58 16 34 16 58	2 10	14 26 6 36 14 25 6 36
T 28	-				25n27 2n27	4n 8 1n33		23n27 0n11	_		16n34 16n56		14s24 6n37

Julian Day Number = 2310227.5, Delta T = 73.35 sec Ecliptic obliquity =  $23^{\circ}29'28$ , Nutation =  $-0^{\circ}00'11$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}20'25$ , Lahiri =  $18^{\circ}27'25$ Greg. Calendar

MARCH 1613 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)Å(	¥	Р	n	v	Ç	Ŷ,	Day
F 1	10 35 22	10 <b>)</b> 34'34	23 <b>II</b> 58	14≈ 1	5≈14	19 <b>I</b> 1	23°R 4	19 <b>)</b> 16	22 <b>I</b> I19	25°R32	4 <b>8</b> 11	15°R40	16 <b>8</b> 53	<b>3Υ</b> 10	26 <b>궁</b> 38	F 1
S 2	10 39 18	11°34'35	7 <b>9</b> 510	14°42	6°26	19°25	22 Mp 56	19°23	22°19	25 <b>m</b> 30	4°12	15 <b>8</b> 37	16°50	3°17	26°42	S 2
S 3	10 43 15	12°34'33	20°51	15°28	7°39	19°49	22°49	19°31	22°19	25°29	4°13	15°32	16°47	3°23	26°46	S 3
M 4	10 47 11	13°34'29	5 <b>Ω</b> 2	16°17	8°52	20°13	22°41	19°38	22°19	25°27	4°14	15°25	16°43	3°30	26°51	M 4
T 5	10 51 8	14°34'23	19°41	17° 9	10° 4	20°38	22°34	19°45	22°19	25°25	4°15	15°16	16°40	3°37	26°55	T 5
W 6	10 55 4	15°34'15	4 Mp 42	18° 5	11°17	21° 2	22°26	19°53	22°20	25°24	4°16	15° 6	16°37	3°43	26°59	W 6
T 7	10 59 1	16°34'05	19°55	19° 3	12°30	21°27	22°18	20° 0	22°20	25°22	4°17	14°57	16°34	3°50	27° 2	T 7
F 8	11 2 58	17°33'53	5 <b>₽</b> 10	20° 4	13°43	21°52	22°10	20° 8	22°20	25°20	4°18	14°50	16°31	3°57	27° 6	F 8
S 9	11 6 54	18°33'39	20°16	21° 7	14°55	22°18	22° 3	20°15	22°21	25°19	4°19	14°46	16°28	4° 3	27°10	S 9
S 10	11 10 51	19°33'23	5M 5	22°13	16° 8	22°43	21°55	20°23	22°21	25°17	4°20	14°43	16°24	4°10	27°14	S 10
M11	11 14 47	20°33'05	19°32	23°22	17°21	23° 9	21°47	20°30	22°22	25°15	4°21	14°D43	16°21	4°17	27°18	M11
T 12	11 18 44	21°32'46	3 <b>₹</b> 32	24°32	18°34	23°35	21°39	20°37	22°22	25°14	4°22	14°44	16°18	4°23	27°21	T 12
W13	11 22 40	22°32'25	17° 8	25°44	19°47	24° 1	21°32	20°45	22°23	25°12	4°23	14°R45	16°15	4°30	27°25	W13
T 14	11 26 37	23°32'03	0 <b>궁</b> 21	26°59	21° 0	24°28	21°24	20°52	22°24	25°10	4°24	14°45	16°12	4°37	27°28	T 14
F 15	11 30 33	24°31'38	13°13	28°15	22°13	24°55	21°16	21° 0	22°25	25° 9	4°25	14°43	16° 9	4°43	27°32	F 15
S 16	11 34 30	25°31'12	25°49	29°33	23°26	25°21	21° 8	21° 7	22°25	25° 7	4°26	14°39	16° 5	4°50	27°35	S 16
S 17	11 38 27	26°30'44	8≈11	0 <b>∺</b> 53	24°39	25°49	21° 1	21°15	22°26	25° 6	4°27	14°33	16° 2	4°57	27°39	S 17
M18	11 42 23	27°30'14	20°23	2°15	25°52	26°16	20°53	21°22	22°27	25° 4	4°29	14°25	15°59	5° 3	27°42	M18
T 19	11 46 20	28°29'43	2 <b>∺</b> 26	3°38	27° 5	26°43	20°45	21°29	22°28	25° 2	4°30	14°16	15°56	5°10	27°45	T 19
W20	11 50 16	29°29'09	14°23	5° 3	28°18	27°11	20°38	21°37	22°29	25° 1	4°31	14° 7	15°53	5°17	27°49	W20
T 21	11 54 13	0 <b>Υ</b> 28'33	26°15	6°29	29°31	27°39	20°30	21°44	22°30	24°59	4°32	13°59	15°49	5°23	27°52	T 21
F 22	11 58 9	1°27'55	8 <b>℃</b> 5	7°57	0 <b>)</b> 44	28° 7	20°22	21°52	22°31	24°57	4°33	13°52	15°46	5°30	27°55	F 22
S 23	12 2 6	2°27'15	19°53	9°26	1°57	28°35	20°15	21°59	22°32	24°56	4°34	13°47	15°43	5°37	27°58	S 23
S 24	12 6 2	3°26'33	1843	10°57	3°10	29° 3	20° 7	22° 6	22°34	24°54	4°35	13°44	15°40	5°43	28° 1	S 24
M25	12 9 59	4°25'49	13°36	12°29	4°23	29°32	20° 0	22°14	22°35	24°52	4°37	13°D43	15°37	5°50	28° 4	M25
T 26	12 13 56	5°25'02	25°36	14° 3	5°36	0ର୍ତ୍ତ 1	19°53	22°21	22°36	24°51	4°38	13°44	15°34	5°57	28° 7	T 26
W27	12 17 52	6°24'14	7 <b>Ⅱ</b> 46	15°38	6°49	0°30	19°45	22°28	22°38	24°49	4°39	13°46	15°30	6° 4	28° 9	W27
T 28	12 21 49	7°23'23	20°11	17°15	8° 2	0°59	19°38	22°36	22°39	24°47	4°40	13°47	15°27	6°10	28°12	T 28
F 29	12 25 45	8°22'30	2954	18°53	9°16	1°28	19°31	22°43	22°40	24°46	4°42	13°R48	15°24	6°17	28°15	F 29
S 30	12 29 42	9°21'34	16° 1	20°32	10°29	1°57	19°24	22°50	22°42	24°44	4°43	13°48	15°21	6°24	28°17	S 30
S 31	12 33 38	10 <b>Y</b> 20'36	29934	22 <b>)</b> 13	11 <b>)</b> €42	29527	19 <b>m</b> )17	22 <b>)</b> 57	22 <b>∏</b> 44	24 Mp 43	4844	13 <b>8</b> 47	15 <b>8</b> 18	6 <b>Ƴ</b> 30	28 <b>궁</b> 20	S 31

Day	0	D	ğ	φ	ď	4	ħ	)મુ(	卉	Р	n n	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
F 1 S 2		26n30 3n 9 27 16 3 59	16s16 0n2 16 15 0 1		25n28 2n26 25 29 2 25	4n11 1n33 4 14 1 33		23n27 0n11 23 27 0 11	3n 3 1n23 3 3 1 23		16n34 16n55 16 33 16 54		14s23 6n37 14 21 6 37
S 3 M 4	6 51 6 28		16 13 0 1 16 8 0s		25 30 2 25 25 31 2 24	4 17 1 33 4 20 1 33	5 58 1 58 5 55 1 58	23 27 0 11 23 27 0 11	3 4 1 23 3 5 1 23		16 32 16 53 16 29 16 52		14 20 6 38 14 19 6 38
T 5 W 6	6 5 5 42	14 15 4 47		0 17 41 0 15		4 23 1 34 4 27 1 34	5 52 1 58 5 49 1 58	23 27 0 11	3 5 1 23 3 6 1 23	2 6 15 58	16 27 16 51 16 24 16 50	1 44	14 18 6 38 14 17 6 39
T 7 F 8 S 9	5 19 4 55 4 32	0 56 3 15	15 36 0 4		25 35 2 21	4 30 1 34 4 33 1 34 4 36 1 34	5 47 1 58 5 44 1 58 5 41 1 58		3 7 1 23 3 7 1 23 3 8 1 23	2 4 15 58	16 21 16 50 16 19 16 49 16 18 16 48	1 38	14 16 6 39 14 15 6 39 14 14 6 40
S 10 M11	4 9 3 45	12 20 0 01	_		25 37 2 19 25 37 2 19	4 39 1 34 4 42 1 34	5 38 1 58 5 35 1 58	23 27 0 11 23 27 0 11	3 9 1 23 3 9 1 23		16 17 16 47 16 17 16 46	_	14 13 6 40 14 12 6 41
T 12 W13 T 14	3 22 2 58 2 34	-	14 40 1 2 14 22 1 3 14 3 1 3	0 15 29 0 36	25 39 2 17	4 45 1 34 4 48 1 34 4 51 1 34	5 32 1 58 5 29 1 58 5 26 1 58		3 10 1 23 3 11 1 23 3 11 1 23	2 2 15 56	16 18 16 45 16 18 16 44 16 18 16 43	1 21	14 11 6 41 14 10 6 41 14 8 6 42
F 15 S 16	2 11	27 10 3 40 27 11 4 22 25 47 4 51	13 43 1 4	3 14 47 0 41	25 39 2 16	4 55 1 34 4 58 1 34	5 23 1 58	23 27 0 11 23 27 0 11 23 27 0 11	3 12 1 23 3 13 1 23	2 1 15 56	16 17 16 42 16 16 16 41	1 15	14 7 6 42
S 17 M18 T 19	1 23 1 0 0 36	19 33 5 6		9 13 42 0 49	25 40 2 14 25 40 2 14 25 40 2 13	5 1 1 34 5 4 1 34 5 7 1 34	5 15 1 59		3 13 1 23 3 14 1 23 3 15 1 23		16 14 16 40 16 12 16 39 16 9 16 39	1 5	14 5 6 43 14 4 6 43 14 3 6 44
W20 T 21 F 22	0 12 0n11	10 15 4 26 4 59 3 48	11 40 2 11 11 2 1	8 12 56 0 54 1 1 12 33 0 56	25 40 2 12 25 40 2 12	5 10 1 34 5 13 1 34	5 9 1 59 5 6 1 59	23 27 0 11 23 27 0 11	3 15 1 23 3 16 1 23	1 58 15 55 1 57 15 55	16 7 16 38 16 4 16 37	0 59 0 55	14 2 6 44 14 1 6 45
S 23	0 35 0 59	5 51 2 6		7 11 45 1 1	25 39 2 10	5 16 1 34 5 19 1 34		23 28 0 11	3 17 1 23 3 17 1 23	1 57 15 54 1 56 15 54	16 1 16 35	0 49	13 59 6 46
S 24 M25 T 26	1 22 1 46 2 9	-	9 4 2 2	1 10 56 1 5		5 22 1 34 5 24 1 34 5 27 1 34	4 58 1 59 4 55 1 59 4 52 1 59	23 28 0 11	3 18 1 23 3 18 1 23 3 19 1 23	1 56 15 54 1 55 15 54 1 54 15 54	16 0 16 33	0 42	13 58 6 46 13 57 6 47 13 56 6 47
W27 T 28	2 33 2 56	<b>26 13 3 6</b>	7 15 2 2	4 9 40 1 11	25 37 2 7 25 36 2 7	5 30 1 34 5 33 1 34	4 49 1 59 4 46 1 59	23 28 0 11	3 20 1 23 3 20 1 23	1 54 15 53 1 53 15 53	16 1 16 30	0 32	13 55 6 47 13 54 6 48
F 29 S 30	3 20 3 43	27 6 4 37		3 8 48 1 15	25 34 2 5	5 36 1 34 5 38 1 34		23 28 0 11	3 21 1 23 3 22 1 23	1 53 15 53 1 52 15 53	16 1 16 28	0 26	13 53 6 48 13 52 6 49
S 31	4n 6	25n13 5n 3	5 s 16 2 s 2:	2 8s22 1s16 1	25n33 2n 5	5n41 1n34	4s38 2s 0	23n28 0n11	3n22 1n23	1 s52 15 s53	16n 1 16n27	0 s23	13 s51 6n49

Julian Day Number = 2310255.5, Delta T = 73.27 sec Ecliptic obliquity = 23°29'29, Nutation = -0°00'12, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°20'29, Lahiri = 18°27'29Greg. Calendar

APRIL 1613 GC 00:00 UT

VI IV	LL TOI	uc													00.0	0 01
Day	Sid.t	0	)	ğ	φ	ď	4	ħ	)∤(	并	В	S.	v	Ç	ę,	Day
M 1	12 37 35	11 <b>Y</b> 19'36	13 <b>£</b> 35	23 <b>米</b> 56	12 <b>)</b> 55	2956	19°R11	23 <b>¥</b> 5	22 <b>∏</b> 45	24°R41	4 <b>8</b> 45	13°R44	15 <b>8</b> 14	6 <b>Ƴ</b> 37	28중22	M 1
T 2	12 41 31	12°18'33	28° 3	25°40	14° 8	3°26	19 <b>m</b> ) 4	23°12	22°47	24 Mp 39	4°47	13 <b>8</b> 40	15°11	6°44	28°25	T 2
W 3	12 45 28	13°17'28	12 <b>m</b> 54	27°25	15°21	3°56	18°57	23°19	22°48	24°38	4°48	13°36	15° 8	6°50	28°27	W 3
T 4	12 49 25	14°16'21	28° 2	29°12	16°34	4°26	18°51	23°26	22°50	24°36	4°49	13°31	15° 5	6°57	28°29	T 4
F 5	12 53 21	15°15'12	13 <b>≏</b> 18	1 <b>Υ</b> 1	17°47	4°56	18°45	23°33	22°52	24°35	4°50	13°28	15° 2	7° 4	28°32	F 5
S 6	12 57 18	16°14'00	28°30	2°50	19° 1	5°26	18°38	23°40	22°54	24°33	4°52	13°26	14°59	7°10	28°34	S 6
S 7	13 1 14	17°12'47	13 <b>M</b> 29	4°42	20°14	5°57	18°32	23°47	22°56	24°32	4°53	13°D25	14°55	7°17	28°36	S 7
M 8	13 5 11	18°11'32	28° 9	6°35	21°27	6°27	18°26	23°54	22°58	24°30	4°54	13°26	14°52	7°24	28°38	M 8
T 9	13 9 7	19°10'15	12 <b>×</b> 23	8°29	22°40	6°58	18°20	24° 1	23° 0	24°29	4°56	13°27	14°49	7°30	28°40	T 9
W10	13 13 4	20° 8'57	26°10	10°25	23°53	7°28	18°15	24° 8	23° 2	24°27	4°57	13°29	14°46	7°37	28°41	W10
T 11	13 17 0	21° 7'36	9 <b>ට</b> 31	12°23	25° 7	7°59	18° 9	24°15	23° 4	24°26	4°58	13°30	14°43	7°44	28°43	T 11
F 12	13 20 57	22° 6'15	22°27	14°22	26°20	8°30	18° 4	24°22	23° 6	24°25	5° 0	13°R30	14°40	7°50	28°45	F 12
S 13	13 24 54	23° 4'51	5≈ 3	16°22	27°33	9° 1	17°58	24°29	23° 8	24°23	5° 1	13°30	14°36	7°57	28°47	S 13
S 14	13 28 50	24° 3'26	17°22	18°24	28°46	9°32	17°53	24°36	23°10	24°22	5° 2	13°28	14°33	8° 4	28°48	S 14
M15	13 32 47	25° 1'58	29°28	20°27	29°59	10° 4	17°48	24°43	23°12	24°20	5° 4	13°26	14°30	8°10	28°50	M15
T 16	13 36 43	26° 0'30	11 <b>) (</b> 25	22°31	1 <b>Y</b> 13	10°35	17°43	24°49	23°15	24°19	5° 5	13°24	14°27	8°17	28°51	T 16
W17	13 40 40	26°58'59	23°17	24°37	2°26	11° 7	17°38	24°56	23°17	24°18	5° 6	13°21	14°24	8°24	28°52	W17
T 18	13 44 36	27°57'27	5 <b>℃</b> 5	26°44	3°39	11°38	17°34	25° 3	23°19	24°16	5° 8	13°18	14°20	8°30	28°54	T 18
F 19	13 48 33	28°55'53	16°54	28°51	4°52	12°10	17°29	25° 9	23°22	24°15	5° 9	13°17	14°17	8°37	28°55	F 19
S 20	13 52 29	29°54'17	28°45	0 <b>8</b> 59	6° 6	12°42	17°25	25°16	23°24	24°14	5°10	13°15	14°14	8°44	28°56	S 20
S 21	13 56 26	0852'39	10840	3° 8	7°19	13°14	17°21	25°23	23°27	24°12	5°12	13°D15	14°11	8°50	28°57	S 21
M22	14 0 22	1°50'59	22°41	5°17	8°32	13°46	17°17	25°29	23°29	24°11	5°13	13°15	14° 8	8°57	28°58	M22
T 23	14 4 19	2°49'18	4 <b>Ⅱ</b> 51	7°26	9°45	14°18	17°13	25°35	23°32	24°10	5°15	13°16	14° 5	9° 4	28°59	T 23
W24	14 8 16	3°47'35	17°12	9°34	10°58	14°50	17°10	25°42	23°34	24° 9	5°16	13°17	14° 1	9°10	29° 0	W24
T 25	14 12 12	4°45'49	29°46	11°42	12°12	15°22	17° 7	25°48	23°37	24° 8	5°17	13°17	13°58	9°17	29° 1	T 25
F 26	14 16 9	5°44'02	12936	13°49	13°25	15°55	17° 3	25°55	23°39	24° 6	5°19	13°18	13°55	9°24	29° 1	F 26
S 27	14 20 5	6°42'13	25°44	15°55	14°38	16°27	17° 0	26° 1	23°42	24° 5	5°20	13°19	13°52	9°30	29° 2	S 27
S 28	14 24 2	7°40'21	9 <b>Ω</b> 13	18° 0	15°51	17° 0	16°57	26° 7	23°45	24° 4	5°21	13°R19	13°49	9°37	29° 2	S 28
M29	14 27 58	8°38'28	23° 5	20° 3	17° 5	17°32	16°55	26°13	23°48	24° 3	5°23	13°19	13°46	9°44	29° 3	M29
T 30	14 31 55	9 <b>8</b> 36'33	7 <b>m</b> )18	22 <b>8</b> 3	18 <b>Y</b> 18	1895 5	16 Mp 52	26 <b>米</b> 19	23 <b>II</b> 50	24 Mp 2	5 <b>8</b> 24	13818	13842	9 <b>Y</b> 50	29 <b>궁</b> 3	T 30

Day	0	D	ğ	φ	♂	2	ł	ħ	1	)į	ł(	<b>¥</b>		Р	U	Ω	Ç	ę,	
	decl	decl lat	decl lat	decl lat	decl lat	decl	lat	decl	lat	decl	lat	decl la	at	decl lat	decl	decl	decl	decl l	at
M 1	4n29	21n46 5n13	4s33 2s20	7s55 1s18 2	5n32 2n 4	5n43	1n33	4 s 3 5	2s 0	23n28	0n11	3n23	1n23	1s51 15s53	16n 0	16n27	0s19	13 s50	6n50
T 2	4 52	16 54 5 3	3 50 2 18	7 29 1 20 2	5 30 2 3	5 46	1 33	4 32	2 0	23 28	0 11	3 24	1 23	1 51 15 52	15 59	16 26	0 16	13 49	6 50
W 3	5 15	10 56 4 33	3 6 2 15	7 2 1 21 2	5 29 2 3	5 49	1 33	4 30	2 0	23 28	0 11	3 24	1 23	1 50 15 52	15 57	16 25	0 13	13 48	6 51
T 4	5 38	4 12 3 43	2 20 2 12	6 35 1 22 2	5 27 2 2	5 51	1 33	4 27	2 0	23 29	0 11	3 25	1 23	1 50 15 52	15 56	16 24	0 10	13 47	6 51
F 5	6 1	2s50 2 38	1 34 2 9	6 7 1 24 2	5 25 2 1	5 53	1 33	4 24	2 0	23 29	0 11	3 25	1 23	1 49 15 52	15 55	16 23	0 6	13 47	6 52
S 6	6 24	9 42 1 21	0 46 2 4	5 40 1 25 2	5 23 2 1	5 56	1 33	4 21	2 0	23 29	0 11	3 26	1 23	1 49 15 52	15 54	16 22	0 3	13 46	6 52
S 7	6 46	15 56 0s 0	0n 2 2 0	5 12 1 26 2	5 21 2 (	5 58	1 33	4 19	2 0	23 29	0 11	3 27	1 23	1 48 15 52	15 54	16 21	0n 0	13 45	6 53
M 8	7 9	21 5 1 20			5 19 1 59		1 33	4 16	2 0			3 27	1 23	1 47 15 52			0 4	13 44	6 53
T 9		24 51 2 33		4 16 1 28 2			1 33	4 13		23 29			1 23	1 47 15 52				13 43	6 54
W10	7 54				5 15 1 58		1 32	4 11	2 1	23 29			1 23	1 46 15 52				13 42	6 54
T 11	8 16						1 32	4 8		23 29			1 23		15 55			13 41	6 55
F 12	8 38		-		5 10 1 57		1 32	4 5		23 29			1 23	1 45 15 51				13 40	6 55
S 13	8 59	24 5 5 12	5 12 1 21	2 23 1 32 2	5 7 1 56	6 11	1 32	4 3	2 1	23 30	0 11	3 30	1 23	1 45 15 51	15 55	16 15	0 20	13 40	6 56
S 14	9 21	20 39 5 14	6 6 1 13	1 54 1 33 2	5 4 1 55	6 12	1 32	4 0	2 1	23 30	0 11	3 30	1 23	1 44 15 51	15 55	16 14	0 23	13 39	6 56
M15	9 43	16 24 5 3	7 0 1 5	1 26 1 33 2	5 1 1 55	6 14	1 32	3 58	2 1	23 30	0 11	3 31	1 23	1 44 15 51	15 54	16 13	0 27	13 38	6 57
T 16	10 4	11 35 4 39	7 55 0 56	0 57 1 34 2	4 58 1 54	6 16	1 31	3 55	2 1	23 30	0 11	3 32	1 23	1 43 15 51	15 54	16 12	0 30	13 37	6 57
W17	10 25	6 23 4 2	8 50 0 46		4 55 1 54	6 18	1 31	3 52	2 1	23 30	0 11	3 32	1 23	1 43 15 51			0 33	13 36	6 58
T 18	10 46				4 51 1 53		1 31	3 50	2 2				1 23	1 42 15 51				13 36	6 58
F 19	11 7	4n29 2 21		0 29 1 35 2			1 31	3 47		23 30			1 23	1 42 15 51				13 35	6 59
S 20	11 28	9 49 1 19	11 35 0 16	0 58 1 35 2	4 44 1 52	6 22	1 31	3 45	2 2	23 30	0 11	3 34	1 23	1 41 15 51	15 51	16 9	0 43	13 34	7 0
S 21	11 48	14 50 0 14	12 29 0 6	1 27 1 36 2	4 40 1 51	6 24	1 31	3 42	2 2	23 30	0 11	3 34	1 22	1 41 15 51	15 51	16 8	0 46	13 33	7 0
M22	12 9	19 19 0n52	13 23 On 5	1 56 1 36 2	4 37 1 50	6 25	1 30	3 40	2 2	23 31	0 11	3 35	1 22	1 41 15 51	15 51	16 7	0 50	13 33	7 1
T 23	12 29	23 4 1 57	14 16 0 15	2 24 1 36 2	4 33 1 50	6 26	1 30	3 38	2 2	23 31	0 11	3 35	1 22	1 40 15 51	15 51	16 6	0 53	13 32	7 1
W24	12 49	25 49 2 57	15 7 0 26	2 53 1 36 2	4 28 1 49	6 28	1 30	3 35	2 2	23 31	0 11	3 35	1 22	1 40 15 51			0 56	13 31	7 2
T 25	13 8	27 20 3 50	15 58 0 37	3 22 1 36 2	4 24 1 49	6 29	1 30	3 33	2 3	23 31	0 11	3 36	1 22	1 39 15 51	15 52	16 4	0 59	13 31	7 2
F 26	13 28	27 25 4 33	16 46 0 47	3 51 1 35 2	4 20 1 48	6 30	1 30	3 30	2 3	23 31	0 11	3 36	1 22	1 39 15 51	15 52	16 3	1 3	13 30	7 3
S 27	13 47	26 0 5 3	17 34 0 58	4 19 1 35 2	4 15 1 47	6 31	1 29	3 28	2 3	23 31	0 11	3 37	1 22	1 38 15 51	15 52	16 2	1 6	13 29	7 3
S 28	14 6	23 4 5 17	18 19 1 8	4 48 1 35 2	4 10 1 47	6 32	1 29	3 26	2 3	23 31	0 11	3 37	1 22	1 38 15 51	15 52	16 1	1 9	13 29	7 4
M29	14 25	18 46 5 13	19 2 1 17	5 16 1 34 2	-	6 33	1 29	3 23		23 31	0 11		1 22	1 37 15 50	15 52	16 0	1 13	13 28	7 4
T 30	14n43	13n20 4n50	19n43 1n26	5n44 1s34 2	4n 1 1n45	6n34	1n29	3 s21	2s 3	23n32	0n11	3n38	1n22	1 s 37 1 5 s 5 (	15n52	15n59	1n16	13 s28	7n 5

 $\label{eq:Julian Day Number = 2310286.5, Delta T = 73.19 sec} \\ Ecliptic obliquity = 23°29'29, Nutation = -0°00'12, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°20'33, Lahiri = 18°27'33Greg. Calendar \\ \\$ 

MAY 1613 GC 00:00 UT

11/41	1013 (	40													00.0	0 01
Day	Sid.t	0	D	ğ	ρ	ď	4	ħ	)મ(	并	Р	₽.	v	Ç	Ŗ	Day
W 1	14 35 52	10 <b>8</b> 34'35	21 m/52	24 <b>8</b> 2	19 <b>Y</b> 31	18938	16°R50	26 <b>米</b> 25	23 <b>II</b> 53	24°R 1	5 <b>8</b> 25	13°R18	13839	9 <b>Υ</b> 57	29궁 4	W 1
T 2	14 39 48	11°32'36	6 <b>≏</b> 42	25°58	20°44	19°10	16 <b>M</b> )48	26°31	23°56	24 Mp 0	5°27	13 <b>8</b> 18	13°36	10° 4	29° 4	T 2
F 3	14 43 45	12°30'34	21°41	27°51	21°58	19°43	16°46	26°37	23°59	23°59	5°28	13°18	13°33	10°10	29° 4	F 3
S 4	14 47 41	13°28'31	6M42	29°42	23°11	20°16	16°44	26°43	24° 2	23°58	5°30	13°18	13°30	10°17	29° 4	S 4
S 5	14 51 38	14°26'27	21°36	1П29	24°24	20°49	16°42	26°49	24° 5	23°57	5°31	13°18	13°26	10°24	29°R 4	S 5
M 6	14 55 34	15°24'21	6 <b>₹</b> 15	3°13	25°37	21°23	16°41	26°55	24° 8	23°56	5°32	13°17	13°23	10°30	29° 4	M 6
T 7	14 59 31	16°22'14	20°34	4°54	26°51	21°56	16°40	27° 1	24°11	23°55	5°34	13°17	13°20	10°37	29° 4	T 7
W 8	15 3 27	17°20'05	4 <b>る</b> 28	6°31	28° 4	22°29	16°38	27° 6	24°14	23°54	5°35	13°17	13°17	10°44	29° 4	W 8
T 9	15 7 24	18°17'55	17°57	8° 6	29°17	23° 2	16°38	27°12	24°17	23°54	5°36	13°16	13°14	10°50	29° 3	T 9
F 10	15 11 21	19°15'44	1≈ 0	9°36	0 <b>8</b> 30	23°36	16°37	27°17	24°20	23°53	5°38	13°16	13°11	10°57	29° 3	F 10
S 11	15 15 17	20°13'31	13°40	11° 3	1°44	24° 9	16°36	27°23	24°23	23°52	5°39	13°16	13° 7	11° 4	29° 3	S 11
S 12	15 19 14	21°11'18	26° 1	12°27	2°57	24°43	16°36	27°28	24°26	23°51	5°40	13°D16	13° 4	11°10	29° 2	S 12
M13	15 23 10	22° 9'03	8 <b>)</b> 7	13°46	4°10	25°17	16°D36	27°34	24°29	23°51	5°42	13°16	13° 1	11°17	29° 2	M13
T 14	15 27 7	23° 6'47	20° 2	15° 2	5°24	25°50	16°36	27°39	24°32	23°50	5°43	13°17	12°58	11°24	29° 1	T 14
W15	15 31 3	24° 4'30	1 <b>Y</b> 52	16°15	6°37	26°24	16°36	27°44	24°35	23°49	5°44	13°18	12°55	11°30	29° 0	W15
T 16	15 35 0	25° 2'11	13°40	17°23	7°50	26°58	16°36	27°49	24°39	23°49	5°46	13°19	12°52	11°37	28°59	T 16
F 17	15 38 56	25°59'52	25°31	18°28	9° 4	27°32	16°37	27°54	24°42	23°48	5°47	13°20	12°48	11°44	28°59	F 17
S 18	15 42 53	26°57'31	7 <b>8</b> 26	19°29	10°17	28° 6	16°38	27°59	24°45	23°48	5°48	13°R20	12°45	11°50	28°58	S 18
S 19	15 46 49	27°55'10	19°30	20°25	11°30	28°40	16°39	28° 4	24°48	23°47	5°49	13°20	12°42	11°57	28°57	S 19
M20	15 50 46	28°52'47	1 <b>Ⅱ</b> 43	21°18	12°43	29°14	16°40	28° 9	24°52	23°46	5°51	13°20	12°39	12° 4	28°56	M20
T 21	15 54 43	29°50'23	14° 8	22° 6	13°57	29°48	16°41	28°14	24°55	23°46	5°52	13°18	12°36	12°10	28°54	T 21
W22	15 58 39	0 <b>Ⅱ</b> 47'58	26°46	22°50	15°10	$0\Omega 22$	16°42	28°19	24°58	23°46	5°53	13°16	12°32	12°17	28°53	W22
T 23	16 2 36	1°45'31	9937	23°30	16°23	0°56	16°44	28°23	25° 2	23°45	5°55	13°13	12°29	12°24	28°52	T 23
F 24	16 6 32	2°43'03	22°43	24° 6	17°37	1°31	16°46	28°28	25° 5	23°45	5°56	13°10	12°26	12°30	28°51	F 24
S 25	16 10 29	3°40'34	6 <b>Ω</b> 3	24°37	18°50	2° 5	16°48	28°32	25° 9	23°44	5°57	13° 8	12°23	12°37	28°49	S 25
S 26	16 14 25	4°38'04	19°38	25° 4	20° 3	2°40	16°50	28°37	25°12	23°44	5°58	13° 7	12°20	12°44	28°48	S 26
M27	16 18 22	5°35'32	3 <b>m</b> 28	25°26	21°17	3°14	16°52	28°41	25°15	23°44	5°59	13°D 6	12°17	12°50	28°46	M27
T 28	16 22 19	6°32'59	17°32	25°43	22°30	3°49	16°55	28°45	25°19	23°44	6° 1	13° 6	12°13	12°57	28°45	T 28
W29	16 26 15	7°30'24	1 <b>≏</b> 49	25°56	23°43	4°23	16°58	28°50	25°22	23°43	6° 2	13° 7	12°10	13° 4	28°43	W29
T 30	16 30 12	8°27'48	16°17	26° 4	24°57	4°58	17° 0	28°54	25°26	23°43	6° 3	13° 9	12° 7	13°10	28°41	T 30
F 31	16 34 8	9 <b>Ⅲ</b> 25'11	0 <b>M</b> .52	26°R 7	26810	5 <b>Ω</b> 33	17MD 3	28 <b>米</b> 58	25Ⅲ29	23 <b>m</b> 43	6 <b>8</b> 4	13 <b>8</b> 10	128 4	13 <b>Y</b> 17	28 <b>궁</b> 39	F 31

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W 1	-	-		20n21	1n35	6n13		23n55	1n45	6n34	1n29	3 s 1 9		23n32		3n38	1n22				15n58			5
T 2	15 20	0 14	3 10	20 58	1 43	6 41		23 50	1 44	6 35	1 28	3 17	2 4	23 32	0 11	3 39	1 22	1 36	15 51	15 52	15 57	1 22	13 26 7	6
F 3	15 38	6s39		21 31	1 51	79		23 45	1 44	6 36	1 28	3 14	2 4			3 39	1 22	1 36			15 56		13 26 7	6
S 4	15 55	13 12	0 37	22 3	1 58	7 37	1 32	23 39	1 43	6 36	1 28	3 12	2 4	23 32	0 11	3 39	1 22	1 35	15 51	15 52	15 55	1 29	13 25 7	7
S 5	16 12	18 57	0s46	22 31	2 4	8 4	1 31	23 34	1 42	6 36	1 28	3 10	2 4	23 32	0 11	3 40	1 22	1 35	15 51	15 52	15 54	1 32	13 25 7	7
M 6	16 29	23 26	2 4	22 58	2 9	8 32	1 30	23 28	1 42	6 37	1 28	3 8	2 5	23 32	0 11	3 40	1 22	1 35	15 51	15 52	15 54	1 36	13 24 7	8
T 7	16 46	26 21	3 13	23 21	2 14	8 59	1 29	23 22	1 41	6 37	1 27	3 6	2 5	23 33	0 11	3 40	1 22	1 34	15 51	15 52	15 53	1 39	13 24 7	9
W 8	17 3	27 32	4 8	23 42	2 18	9 26	1 28	23 16	1 41	6 37	1 27	3 4	2 5	23 33	0 11	3 41	1 22	1 34	15 51	15 52	15 52	1 42	13 23 7	9
T 9	17 19	27 1	4 47	24 1	2 21	9 53		23 10	1 40	6 37	1 27	3 2	2 5	23 33	0 11	3 41	1 22	1 33	15 51	15 51	15 51	1 46	13 23 7 1	0
F 10	17 35	25 1	5 10	24 18	2 23	10 20	1 26	23 3	1 39	6 38	1 27	3 0	2 5	23 33	0 11	3 41	1 22	1 33	15 51	15 51	15 50	1 49	13 22 7 1	0
S 11	17 50	21 49	5 17	24 32	2 24	10 46	1 25	22 57	1 39	6 38	1 26	2 58	2 6	23 33	0 11	3 42	1 22	1 33	15 51	15 51	15 49	1 52	13 22 7 1	1
S 12	18 6	17 43	5 10	24 44	2 25	11 13	1 24	22 50	1 38	6 37	1 26	2 56	2 6	23 33	0 11	3 42	1 22	1 32	15 51	15 51	15 48	1 55	13 22 7 1	1
M13	18 21	13 0	4 48	24 53	2 24	11 39	1 22	22 44	1 38	6 37	1 26	2 54	2 6	23 33	0 11	3 42	1 22	1 32	15 51	15 51	15 47	1 59	13 21 7 1	2
T 14	18 35	7 51	4 14	25 1	2 23	12 4	1 21	22 37	1 37	6 37	1 26	2 52	2 6	23 34	0 11	3 42	1 22	1 32	15 51	15 51	15 46	2 2	13 21 7 1	2
W15	18 50	2 28	3 30	25 7	2 21	12 30	1 20	22 30	1 36	6 37	1 26	2 50	2 6	23 34	0 11	3 43	1 22	1 31	15 51	15 52	15 45	2 5	13 20 7 1	.3
T 16	19 4	3n 0	2 37	25 10	2 18	12 55	1 18	22 23	1 36	6 36	1 25	2 48	2 7	23 34	0 11	3 43	1 22	1 31	15 51	15 52	15 44		13 20 7 1	3
F 17	19 18	8 23	1 37	25 12	2 14	13 20	1 17	22 15	1 35	6 36	1 25	2 46	2 7	23 34	0 11	3 43	1 22	1 31	15 51	15 52	15 43	2 12	13 20 7 1	4
S 18	19 31	13 31	0 33	25 13	2 9	13 45	1 15	22 8	1 35	6 36	1 25	2 44	2 7	23 34	0 11	3 43	1 22	1 30	15 51	15 53	15 42	2 15	13 19 7 1	4
S 19	19 44	18 11	0n34	25 11	2 3	14 9	1 14	22 1	1 34	6 35	1 25	2 43	2 7	23 34	0 11	3 43	1 22	1 30	15 51	15 53	15 41	2 19	13 19 7 1	.5
M20	19 57	22 11	1 40	25 8	1 56	14 33	1 12	21 53	1 34	6 34	1 24	2 41	2 7	23 34	0 11	3 44	1 22	1 30	15 52	15 52	15 40	2 22	13 19 7 1	.5
T 21	20 10	25 14	2 42	25 4	1 49	14 56	1 10	21 45	1 33	6 34	1 24	2 39	2 8	23 34	0 11	3 44	1 22	1 29	15 52	15 52	15 39	2 25	13 19 7 1	6
W22	20 22	27 4	3 37	24 58	1 40	15 19	1 9	21 37	1 32	6 33	1 24	2 38	2 8	23 35	0 11	3 44	1 22	1 29	15 52	15 51	15 38	2 28	13 18 7 1	6
T 23	20 34	27 31	4 23	24 50	1 31	15 42	1 7	21 29	1 32	6 32	1 24	2 36	2 8	23 35	0 11	3 44	1 22	1 29	15 52	15 50	15 37	2 32	13 18 7 1	7
F 24	20 45	26 25	4 55	24 42	1 20	16 5	1 5	21 21	1 31	6 31	1 24	2 34	2 8	23 35		3 44	1 22	1 29	15 52	15 50	15 36	2 35	13 18 7 1	7
S 25	20 56	23 51	5 13	24 32	1 9	16 27	1 3	21 13	1 31	6 30	1 23	2 33	2 9	23 35	0 11	3 44	1 22	1 28	15 52	15 49	15 35	2 38	13 18 7 1	8
S 26	21 7	19 54	5 13	24 21	0 57	16 48	1 1	21 4	1 30	6 29	1 23	2 31	2 9	23 35	0 11	3 44	1 21	1 28	15 52	15 48	15 34	2 42	13 18 7 1	8
M27	21 17	14 51	4 55	24 9	0 44	17 10	1 0	20 56	1 29	6 28	1 23	2 30	2 9	23 35	0 11	3 44	1 21	1 28	15 52	15 48	15 33	2 45	13 18 7 1	8
T 28	21 27	8 56	4 20	23 56	0 31	17 30	0 58	20 47	1 29	6 27	1 23	2 28	2 9	23 35	0 11	3 45	1 21	1 28	15 53	15 48	15 32	2 48	13 17 7 1	9
W29	21 37	2 28	3 28	23 42	0 17	17 51	0 56	20 38	1 28	6 25	1 22	2 27	2 9	23 36	0 11	3 45	1 21	1 27	15 53	15 49	15 31	2 52	13 17 7 1	9
T 30	21 46	4s13	2 23	23 28	0 2	18 11	0 54	20 29	1 28	6 24	1 22	2 25	2 10	23 36	0 11	3 45	1 21	1 27	15 53	15 49	15 30	2 55	13 17 7 2	.0
F 31	21n55	10 s45	1n 7	23n12	0s14	18n30	0 s 5 1	20n20	1n27	6n23	1n22	2 s24	2s10	23n36	0n11	3n45	1n21	1 s27	15 s53	15n49	15n29	2n58	13 s17 7n2	.0

Julian Day Number = 2310316.5, Delta T = 73.10 sec Ecliptic obliquity =  $23^{\circ}29'29$ , Nutation = -  $0^{\circ}00'13$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}20'37$ , Lahiri =  $18^{\circ}27'38$ Greg. Calendar

JUNE 1613 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)Å(	¥	Р	₽.	v	Ç	ę,	Day
S 1	16 38 5	10 <b>Ⅲ</b> 22'33	15 <b>M</b> 30	26°R 6	27824	6 <b>N</b> 7	17 <b>m</b> ) 7	29 <b>米</b> 2	25 <b>Ⅲ</b> 33	23°R43	6 <b>8</b> 5	13°R10	128 1	13 <b>Y</b> 24	28°R38	S 1
S 2	16 42 1	11°19'55	0 <b>∡</b> 5	26耳 1	28°37	6°42	17°10	29° 6	25°36	23 <b>m</b> 43	6° 7	138 9	11°58	13°30	28 <b>궁</b> 36	S 2
M 3	16 45 58	12°17'15	14°31	25°51	29°50	7°17	17°13	29° 9	25°40	23°43	6° 8	13° 7	11°54	13°37	28°34	M 3
T 4	16 49 54	13°14'34	28°41	25°37	1 <b>I</b> I 4	7°52	17°17	29°13	25°43	23°D43	6° 9	13° 3	11°51	13°44	28°32	T 4
W 5	16 53 51	14°11'53	12 <b>る</b> 32	25°20	2°17	8°27	17°21	29°17	25°47	23°43	6°10	12°59	11°48	13°50	28°30	W 5
T 6	16 57 48	15° 9'11	26° 0	24°58	3°30	9° 2	17°25	29°20	25°50	23°43	6°11	12°54	11°45	13°57	28°27	T 6
F 7	17 1 44	16° 6'29	9≈ 5	24°34	4°44	9°37	17°29	29°24	25°54	23°43	6°12	12°50	11°42	14° 4	28°25	F 7
S 8	17 541	17° 3'46	21°47	24° 6	5°57	10°12	17°34	29°27	25°57	23°43	6°13	12°46	11°38	14°10	28°23	S 8
S 9	17 9 37	18° 1'03	4 <b>)</b> €11	23°36	7°11	10°47	17°38	29°30	26° 1	23°43	6°14	12°43	11°35	14°17	28°21	S 9
M10	17 13 34	18°58'19	16°18	23° 4	8°24	11°23	17°43	29°33	26° 5	23°43	6°15	12°D42	11°32	14°24	28°18	M10
T 11	17 17 30	19°55'35	28°14	22°31	9°38	11°58	17°47	29°36	26° 8	23°43	6°16	12°43	11°29	14°30	28°16	T 11
W12	17 21 27	20°52'51	10 <b>°</b> 4	21°57	10°51	12°33	17°52	29°39	26°12	23°44	6°17	12°44	11°26	14°37	28°13	W12
T 13	17 25 23	21°50'06	21°53	21°23	12° 5	13° 9	17°57	29°42	26°15	23°44	6°18	12°45	11°23	14°44	28°11	T 13
F 14	17 29 20	22°47'21	3 <b>8</b> 46	20°49	13°18	13°44	18° 3	29°45	26°19	23°44	6°19	12°47	11°19	14°50	28° 8	F 14
S 15	17 33 17	23°44'36	15°47	20°16	14°32	14°19	18° 8	29°48	26°23	23°45	6°20	12°R47	11°16	14°57	28° 6	S 15
S 16	17 37 13	24°41'51	27°59	19°45	15°45	14°55	18°14	29°51	26°26	23°45	6°21	12°46	11°13	15° 4	28° 3	S 16
M17	17 41 10	25°39'05	10∏26	19°15	16°59	15°31	18°19	29°53	26°30	23°45	6°22	12°43	11°10	15°10	28° 0	M17
T 18	17 45 6	26°36'20	23° 8	18°48	18°12	16° 6	18°25	29°55	26°33	23°46	6°23	12°38	11° 7	15°17	27°58	T 18
W19	17 49 3	27°33'34	69 6	18°24	19°26	16°42	18°31	29°58	26°37	23°46	6°24	12°31	11° 4	15°24	27°55	W19
T 20	17 52 59	28°30'47	19°21	18° 4	20°39	17°18	18°37	oΥ 0	26°40	23°47	6°25	12°24	11° 0	15°30	27°52	T 20
F 21	17 56 56	29°28'01	2 <b>Ω</b> 49	17°47	21°53	17°53	18°44	0° 2	26°44	23°47	6°26	12°16	10°57	15°37	27°49	F 21
S 22	18 0 53	0925'13	16°30	17°34	23° 6	18°29	18°50	0° 4	26°48	23°48	6°27	12° 9	10°54	15°44	27°46	S 22
S 23	18 449	1°22'26	0 Mp 20	17°26	24°20	19° 5	18°56	0° 6	26°51	23°48	6°28	12° 4	10°51	15°50	27°43	S 23
M24	18 8 46	2°19'37	14°19	17°D22	25°34	19°41	19° 3	0° 8	26°55	23°49	6°29	12° 0	10°48	15°57	27°40	M24
T 25	18 12 42	3°16'49	28°23	17°23	26°47	20°17	19°10	0°10	26°58	23°50	6°30	11°D59	10°44	16° 4	27°37	T 25
W26	18 16 39	4°14'00	12 <b>≏</b> 32	17°29	28° 1	20°53	19°17	0°11	27° 2	23°50	6°30	11°59	10°41	16°10	27°34	W26
T 27	18 20 35	5°11'10	26°45	17°39	29°14	21°29	19°24	0°13	27° 6	23°51	6°31	12° 0	10°38	16°17	27°31	T 27
F 28	18 24 32	6° 8'21	10 <b>M</b> 58	17°55	09528	22° 5	19°31	0°15	27° 9	23°52	6°32	12°R 0	10°35	16°24	27°28	F 28
S 29	18 28 28	7° 5'31	25°11	18°16	1°42	22°41	19°38	0°16	27°13	23°53	6°33	12° 0	10°32	16°30	27°25	S 29
S 30	18 32 25	89 2'41	9 <b>∡</b> 120	18 <b>Ⅱ</b> 41	2955	23 <b>Ω</b> 17	19 <b>m</b> /46	0 <b>Υ</b> 17	27 <b>I</b> I16	23 <b>m</b> 53	6 <b>8</b> 33	11857	10829	16 <b>Y</b> 37	27 <b>ට</b> 21	S 30

Day	0	D		ğ		φ	С	7	2	ŀ	ħ	1	);	ł(	并		Р		n	Ω	Ç	Š	
	decl	decl la	nt	decl	lat de	l lat	decl	lat	decl	lat	decl	lat	decl	lat	decl la	at	decl la	t	decl	decl	decl	decl	lat
S 1	22n 3	16 s43	0s13	22n56	0 s 3 0 18 n 4	9 0s49	20n11	1n27	6n21	1n22	2 s23	2s10	23n36	0n11	3n45	1n21	1 s27 1	5 s53	15n50	15n28	3n 1	13 s17	7n21
S 2			-	22 40		8 0 47	-	1 26	6 20	1 21	2 21		23 36		3 45	1 21	1 26 1					13 17	7 21
M 3	-		2 43		1 3 19 2		19 52	1 25	6 18	1 21	2 20	2 11			-	1 21	1 26 13			-	3 8		7 22
T 4 W 5	22 26 22 33		3 44 4 29	22 5 21 47	1 20 19 4 1 37 20	0 43	19 42 19 33	1 25 1 24	6 17 6 15	1 21 1 21	2 19 2 18	2 11 2 11			-	1 21 1 21	1 26 13 1 26 13					13 17 13 17	7 22 7 22
T 6				21 47	1 54 20 1				6 13	1 21	2 16	2 11			-	1 21				15 24		13 17	7 23
F 7	-			21 12	2 11 20 3				6 11	1 20	2 15		23 37	0 11	-	1 21	1 26 13					13 17	7 23
S 8	22 52	19 8	5 8	20 54	2 28 20 4	7 0 34	19 3	1 23	6 9	1 20	2 14	2 12	23 37	0 11	3 44	1 21	1 25 13	5 54	15 42	15 22	3 25	13 17	7 24
S 9	22 57	14 30	4 51	20 37	2 44 21	2 0 32	18 53	1 22	6 7	1 20	2 13	2 12	23 37	0 11	3 44	1 21	1 25 13	5 55	15 41	15 21	3 28	13 17	7 24
M10	23 2			20 20	2 59 21 1		-	1 22	6 5	1 20	2 12	2 12		0 11	-	1 21	1 25 13		-			13 17	7 24
T 11 W12	23 6 23 11	-		20 3 19 48	3 14 21 3 3 28 21 4			1 21 1 20	6 3	1 20 1 19	2 11 2 10		23 37 23 37	0 11 0 11	-	1 21	1 25 13					13 17 13 17	7 25
T 13	23 14	-		19 48	3 40 21 5			1 20	6 1 5 59	1 19	2 10	2 13		0 11	-	1 21 1 21			15 42	15 18 15 17		13 17	7 25 7 25
F 14	23 18			19 19	3 52 22	7 0 20		1 19	5 57	1 19	2 8	2 13		0 11		1 21				15 16		13 18	7 26
S 15	23 21	16 52	0n16	19 7	4 2 22 1	8 0 17	17 49	1 19	5 54	1 19	2 7	2 14	23 38	0 11	3 43	1 21	1 25 1	5 56	15 43	15 15	3 48	13 18	7 26
S 16	23 23	21 5	1 22	18 56	4 11 22 2	9 0 15	17 38	1 18	5 52	1 18	2 7	2 14	23 38	0 11	3 43	1 21	1 24 1	5 56	15 42	15 14	3 51	13 18	7 26
M17	23 25	-		18 46	4 18 22 3		17 27	1 18	5 50	1 18	2 6	2 14			-	1 21	1 24 1:		-			13 18	7 27
_	23 27 23 28			18 38 18 31	4 24 22 4 4 29 22 5			1 17 1 16	5 47	1 18 1 18	2 5 2 5	2 15 2 15	23 38		-	1 21	1 24 1:					13 19 13 19	7 27 7 27
	23 28			18 27	4 29 22 3	6 0 8 4 0 5		-	5 45 5 42	1 18	2 4	2 15				1 21 1 21				15 11		13 19	7 28
	23 29			18 23	4 33 23 1			1 15	5 39	1 17	2 3	2 15				1 21	1 24 13					13 19	7 28
S 22	23 29	20 48	5 7	18 22	4 34 23 1	8 0 1	16 30	1 15	5 37	1 17	2 3	2 16	23 38	0 11	3 42	1 20	1 24 1	5 57	15 31	15 8	4 11	13 20	7 28
S 23	23 29	15 56	4 52	18 22	4 32 23 2	4 0n 2	16 18	1 14	5 34	1 17	2 2	2 16	23 38	0 11	3 42	1 20	1 24 13	5 58	15 29	15 7	4 14	13 20	7 28
M24	23 28	-	-	18 25	4 30 23 2		,	1 14	5 31	1 17	2 2	2 16			-	1 20	1 24 1:					13 20	7 29
T 25	23 27			18 28	4 26 23 3		15 55	1 13	5 28	1 17	2 1	2 16				1 20	1 24 1:					13 21	7 29
W26 T 27	23 25 23 23			18 34 18 40	4 22 23 3 4 16 23 4			1 13 1 12	5 25 5 22	1 16 1 16	2 1 2 0	2 17 2 17			3 41 3 41	1 20 1 20	1 24 1:		15 28 15 28			13 21 13 21	7 29 7 29
F 28	23 21			18 49	4 9 23 4		15 18		5 19	1 16	2 0		23 39		-	1 20	1 24 13					13 21	7 30
S 29	23 18	20 14	1 s 1 0	18 58	4 1 23 4	0 16	15 6	1 11	5 16	1 16	2 0		23 39		3 40	1 20	1 24 1	5 59	15 28	15 1	4 34	13 22	7 30
S 30	23n15	24 s13	2 s21	19n 9	3 s 5 2 2 3 n 4	6 0n18	14n53	1n10	5n13	1n16	2s 0	2 s 1 8	23n39	0n11	3n40	1n20	1 s24 10	6s 0	15n27	15n 0	4n37	13 s22	7n30

Julian Day Number = 2310347.5, Delta T = 73.01 sec Ecliptic obliquity =  $23^{\circ}29'29$ , Nutation =  $-0^{\circ}00'12$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}20'41$ , Lahiri =  $18^{\circ}27'42$ Greg. Calendar

JULY 1613 GC 00:00 UT

Day	Sid.t	$\odot$	D	ğ	φ	♂	4	ħ	)∤(	₩	Р	n	Ω	Ç	, k	Day
M 1	18 36 22	8959'51	23 <b>×</b> 22	19 <b>Ⅱ</b> 12	495 9	23Ω54	19 <b>m</b> 53	0Υ18	27 <b>II</b> 20	23 m 54	6 <b>8</b> 34	11°R52	10825	16 <b>Y</b> 44	27°R18	M 1
T 2	18 40 18	9°57'01	7 <b>云</b> 13	19°47	5°23	24°30	20° 1	0°19	27°23	23°55	6°35	11844	10°22	16°50	27 <b>궁</b> 15	T 2
W 3	18 44 15	10°54'11	20°49	20°28	6°36	25° 6	20° 9	0°20	27°27	23°56	6°36	11°35	10°19	16°57	27°12	W 3
T 4	18 48 11	11°51'21	4≈ 8	21°13	7°50	25°43	20°17	0°21	27°30	23°57	6°36	11°25	10°16	17° 4	27° 8	T 4
F 5	18 52 8	12°48'31	17° 7	22° 3	9° 4	26°19	20°25	0°22	27°34	23°58	6°37	11°16	10°13	17°10	27° 5	F 5
S 6	18 56 4	13°45'42	29°46	22°58	10°17	26°55	20°33	0°23	27°37	23°59	6°38	11° 7	10°10	17°17	27° 2	S 6
S 7	19 0 1	14°42'53	12 <b>∺</b> 8	23°58	11°31	27°32	20°41	0°23	27°41	24° 0	6°38	11° 0	10° 6	17°24	26°58	S 7
M 8	19 3 57	15°40'05	24°15	25° 3	12°45	28° 8	20°50	0°24	27°44	24° 1	6°39	10°56	10° 3	17°30	26°55	M 8
T 9	19 7 54	16°37'17	6 <b>Υ</b> 11	26°12	13°59	28°45	20°58	0°24	27°48	24° 2	6°39	10°53	10° 0	17°37	26°51	T 9
W10	19 11 51	17°34'30	18° 1	27°25	15°13	29°22	21° 7	0°24	27°51	24° 3	6°40	10°D53	9°57	17°43	26°48	W10
T 11	19 15 47	18°31'44	29°50	28°43	16°26	29°58	21°16	0°24	27°55	24° 4	6°40	10°53	9°54	17°50	26°45	T 11
F 12 S 13	19 19 44 19 23 40	19°28'58 20°26'13	11 <b>8</b> 44 23°48	0 <b>9</b> 6 1°32	17°40 18°54	0 Mp 35 1°12	21°24 21°33	0°R24 0°24	27°58 28° 1	24° 5 24° 7	6°41 6°42	10°R53 10°53	9°50 9°47	17°57 18° 3	26°41 26°38	F 12 S 13
			-													
S 14	19 27 37	21°23'29	6 <b>I</b> 7	3° 3	20° 8	1°49	21°42	0°24	28° 5	24° 8	6°42	10°50	9°44	18°10	26°34	S 14
M15	19 31 33	22°20'45	18°43	4°38	21°22	2°25	21°52	0°24	28° 8	24° 9	6°42	10°45	9°41	18°17	26°31	M15
T 16	19 35 30	23°18'03	19540	6°17	22°36	3° 2	22° 1	0°24	28°12	24°10	6°43	10°37	9°38	18°23	26°27	T 16
W17	19 39 26	24°15'20	14°58	7°59	23°49	3°39	22°10	0°23	28°15	24°12	6°43	10°28	9°35	18°30	26°24	W17
T 18 F 19	19 43 23	25°12'39	28°35	9°45 11°34	25° 3 26°17	4°16	22°20 22°29	0°23 0°22	28°18 28°22	24°13 24°14	6°44	10°16 10° 5	9°31 9°28	18°37 18°43	26°20 26°17	T 18 F 19
S 20	19 47 20 19 51 16	26° 9'58 27° 7'18	12 <b>Ω</b> 29 26°36	11°34 13°27	20°17 27°31	4°53 5°30	22°39	0°22 0°21	28°25	24°14 24°16	6°44 6°45	9°55	9°28	18°43	26°17 26°13	S 20
										-						
S 21	19 55 13	28° 4'38	10 <b>m</b> 49	15°22	28°45	6° 7	22°49	0°20	28°28	24°17	6°45	9°46	9°22	18°57	26°10	S 21
M22	19 59 9	29° 1'59	25° 6	17°19	29°59	6°45	22°58	0°19	28°31	24°18	6°45	9°40	9°19	19° 3	26° 6	M22
T 23 W24	20 3 6 20 7 2	29°59'20 0 <b>Ω</b> 56'41	9 <u><b>Ω</b></u> 22 23°33	19°19 21°20	1 <b>Ω</b> 13 2°27	7°22 7°59	23° 8 23°18	0°18 0°17	28°34 28°38	24°20 24°21	6°46 6°46	9°37 9°36	9°16 9°12	19°10 19°17	26° 3 25°59	T 23 W24
T 25	20 / 2	1°54'04	23°33 7 <b>M</b> L40	21°20 23°23	3°41		23°18 23°28	0°17	28°41	24°23	6°46	9°36	9°12	19°17	25°56	T 25
F 26	20 10 59 20 14 55	2°51'26	21°40	25°27	4°55	8°36 9°14	23°28 23°39	0°16	28°44	24°23	6°46	9°36	9° 6	19°23	25°52	F 26
S 27	20 14 33 20 18 52	3°48'50	5 <b>/</b> 34	23°27 27°32	6° 9	9°51	23°49	0°13	28°47	24°24 24°26	6°47	9°34	9° 3	19°37	25°49	S 27
										-						
S 28	20 22 49	4°46'14	19°20	29°37	7°23	10°29	23°59	0°12	28°50	24°27	6°47	9°30	9° 0	19°43	25°46	S 28
M29	20 26 45	5°43'39	2 <b>3</b> 57	10.42	8°37 9°51	11° 6	24°10	0°10 0° 8	28°53	24°29	6°47	9°23	8°56	19°50	25°42	M29
T 30 W31	20 30 42 20 34 38	6°41'04 7 <b>Ω</b> 38'31	16°24 29 <b>る</b> 39	3°47 5 <b>Ω</b> 52	9°51 11 <b>Ω</b> 5	11°44 12 <b>m</b> )21	24°20 24 <b>m</b> ) 31	0° 8	28°56 28 <b>II</b> 59	24°31 24 <b>m</b> )32	6°47 6 <b>8</b> 47	9°13 9 <b>8</b> 2	8°53 8 <b>8</b> 50	19°57 20 <b>°</b> 3	25°39 25 <b>る</b> 35	T 30 W31

Day	0	D	ğ	·	♂ <sup>™</sup>	4	ħ	)Å(	¥	Р	w v	Ç	Š,
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl dec	el decl	decl lat
M 1	23n11	26 s42 3 s23	19n21 3s4	13 23n46 0n21	14n41 1n10	5n10 1n15	1s59 2s18	23n39 0n11	3n39 1n20	1s24 16s 0	15n26 14n5	9 4n40	13 s23 7n30
T 2	23 7	27 29 4 11	19 34 3 3	32 23 46 0 23	14 28 1 9	5 7 1 15	1 59 2 18	23 39 0 11	3 39 1 20	1 24 16 0	15 23 14 5	8 4 44	13 23 7 30
W 3	23 3	26 34 4 45	19 48 3 2	22 23 45 0 25	14 16 1 9	5 4 1 15	1 59 2 19	23 39 0 11	3 38 1 20	1 24 16 0	15 21 14 5	7 4 47	13 24 7 30
T 4	22 58	24 9 5 2	20 2 3 1	0 23 43 0 27	14 3 1 8	5 0 1 15	1 59 2 19	23 39 0 11	3 38 1 20	1 24 16 1	15 17 14 5	6 4 50	13 24 7 31
F 5	22 52	20 32 5 3	20 17 2 5	8 23 41 0 30	13 50 1 7	4 57 1 15	1 59 2 19	23 39 0 11	3 38 1 20	-	15 14 14 5	5 4 54	13 25 7 31
S 6	22 47	16 4 4 48	20 33 2 4	16 23 37 0 32	13 37 1 7	4 54 1 15	1 59 2 20	23 39 0 11	3 37 1 20	1 24 16 1	15 12 14 5	4 4 57	13 25 7 31
S 7	22 41	11 2 4 21	20 48 2 3	33 23 33 0 34	13 24 1 6	4 50 1 14	1 59 2 20	23 40 0 11	3 37 1 20	1 24 16 1	15 10 14 5	3 5 0	13 26 7 31
M 8	22 34	5 41 3 42	21 4 2 2	20 23 29 0 36	13 10 1 6	4 47 1 14	1 59 2 20	23 40 0 11	3 36 1 20	1 24 16 2	15 8 14 5	2 5 3	13 26 7 31
T 9	22 27	0 12 2 54	21 20 2	7 23 24 0 38	12 57 1 5	4 43 1 14	1 59 2 20	23 40 0 11	3 36 1 20	1 25 16 2	15 8 14 5	1 5 7	13 27 7 31
W10	22 20	5n15 1 59	21 35 1 5	53 23 18 0 41	12 44 1 5	4 40 1 14	1 59 2 21	23 40 0 11	3 35 1 20	1 25 16 2	15 7 14 5	0 5 10	13 27 7 31
T 11	22 12			10 23 11 0 43		4 36 1 14	1 59 2 21		3 35 1 20		15 7 14 4		13 28 7 31
F 12		15 28 On 5			12 17 1 4	4 32 1 14	2 0 2 21		3 34 1 20		15 8 14 4		13 28 7 32
S 13	21 56	19 52 1 8	22 17 1 1	2 22 55 0 47	12 3 1 3	4 29 1 13	2 0 2 21	23 40 0 11	3 34 1 20	1 25 16 3	15 7 14 4	7 5 20	13 29 7 32
S 14	21 47	23 30 2 10	22 29 0 5	59 22 47 0 49	11 50 1 2	4 25 1 13	2 0 2 22	23 40 0 11	3 33 1 20	1 25 16 3	15 6 14 4	6 5 23	13 30 7 32
	21 38	26 7 3 7	22 39 0 4	15 22 37 0 50	11 36 1 2	4 21 1 13	2 1 2 22	23 40 0 11	3 33 1 20	1 25 16 4	15 5 14 4	5 5 27	13 30 7 32
	21 29				11 22 1 1	4 17 1 13	2 1 2 22	23 40 0 11	3 32 1 20	1 25 16 4	15 3 14 4	4 5 30	13 31 7 32
	21 19			9 22 17 0 54	-	4 14 1 13		23 40 0 11	3 32 1 20		14 59 14 4		13 31 7 32
_		25 18 4 55			10 54 1 0			23 40 0 11	3 31 1 20		14 56 14 4		13 32 7 32
F 19	20 58				10 40 1 0			23 40 0 11	3 31 1 20		14 52 14 4		13 33 7 32
S 20	20 47	17 12 4 49	23 6 0 1	7 21 40 1 0	10 26 0 59	4 2 1 12	2 3 2 23	23 40 0 11	3 30 1 20	1 26 16 5	14 49 14 4	0 5 43	13 33 7 32
S 21	20 35	11 30 4 19	23 4 0 2	28 21 27 1 1	10 12 0 59	3 58 1 12	2 4 2 24	23 40 0 11	3 30 1 20	1 26 16 6	14 46 14 3	9 5 46	13 34 7 32
M22	20 24	5 12 3 32		39 21 13 1 3	9 57 0 58	3 54 1 12	2 4 2 24	23 40 0 11	3 29 1 19	1 26 16 6	14 45 14 3	8 5 50	13 34 7 32
T 23	20 12		-	19 20 59 1 4	9 43 0 57	3 50 1 12	2 5 2 24	23 40 0 11	3 28 1 19	1 27 16 6	14 43 14 3	7 5 53	13 35 7 32
W24	19 59			8 20 44 1 6	9 28 0 57	3 46 1 12	2 6 2 24	23 41 0 11	3 28 1 19		14 43 14 3		13 36 7 32
T 25				6 20 28 1 7		-		23 41 0 11	3 27 1 19		14 43 14 3		13 37 7 31
F 26			-	4 20 11 1 9	0 07 0 00			23 41 0 11	3 26 1 19		14 43 14 3	-	13 37 7 31
S 27	19 20	23 27 2 13	22 1 1 2	21 19 55 1 10	8 45 0 55	3 33 1 11	2 8 2 25	23 41 0 12	3 26 1 19	1 27 16 7	14 42 14 3	3 6 6	13 38 7 31
S 28				27 19 37 1 12				23 41 0 12			14 41 14 3		13 39 7 31
M29			21 19 1 3			3 25 1 11	1 1	23 41 0 12			14 39 14 3		13 39 7 31
T 30	18 39		20 54 1 3			3 20 1 11		23 41 0 12	-		14 36 14 3		13 40 7 31
W31	18n24	25 s 6 4 s 56	20n27 1n4	10 18n41 1n15	7n45 0n53	3n16 1n11	2s12 2s26	23n41 0n12	3n23 1n19	1s28 16s 9	14n32 14n2	9 6n19	13 s41 7n31

Julian Day Number = 2310377.5, Delta T = 72.93 sec Ecliptic obliquity =  $23^{\circ}29'29$ , Nutation =  $-0^{\circ}00'11$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}20'46$ , Lahiri =  $18^{\circ}27'46$ Greg. Calendar

AUGUST 1613 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)ф(	¥	Р	រា	ນ	Ç	ķ	Day
T 1	20 38 35	8 <b>Ω</b> 35'58	12≈40	7 <b>Ω</b> 56	12 <b>Ω</b> 19	12 <b>m</b> 59	24 m/41	0°R 4	29耳 2	24 Mp 34	6 <b>8</b> 47	8°R49	8 <b>8</b> 47	20Υ10	25°R32	T 1
F 2	20 42 31	9°33'27	25°25	10° 0	13°34	13°36	24°52	0 <b>Υ</b> 2	29° 5	24°36	6°47	8 <b>8</b> 36	8°44	20°17	25る29	F 2
S 3	20 46 28	10°30'57	7 <b>∺</b> 55	12° 2	14°48	14°14	25° 3	0° 0	29° 8	24°37	6°48	8°25	8°41	20°23	25°25	S 3
S 4	20 50 24	11°28'27	20°11	14° 4	16° 2	14°52	25°14	29 <b>米</b> 58	29°11	24°39	6°48	8°16	8°37	20°30	25°22	S 4
M 5	20 54 21	12°26'00	2 <b>Υ</b> 14	16° 4	17°16	15°30	25°25	29°56	29°14	24°41	6°48	8° 9	8°34	20°36	25°19	M 5
T 6	20 58 18	13°23'33	14° 8	18° 3	18°30	16° 7	25°36	29°53	29°17	24°43	6°R48	8° 5	8°31	20°43	25°16	T 6
W 7	21 2 14	14°21'08	25°57	20° 1	19°44	16°45	25°47	29°51	29°19	24°44	6°48	8° 3	8°28	20°50	25°12	W 7
T 8	21 6 11	15°18'44	7 <b>8</b> 45	21°58	20°58	17°23	25°58	29°48	29°22	24°46	6°48	8°D 3	8°25	20°56	25° 9	T 8
F 9	21 10 7	16°16'22	19°39	23°53	22°12	18° 1	26° 9	29°46	29°25	24°48	6°48	8°R 3	8°21	21° 3	25° 6	F 9
S 10	21 14 4	17°14'02	1 <b>Ⅱ</b> 43	25°46	23°27	18°39	26°21	29°43	29°28	24°50	6°48	8° 2	8°18	21°10	25° 3	S 10
S 11	21 18 0	18°11'43	14° 3	27°39	24°41	19°17	26°32	29°40	29°30	24°52	6°47	8° 0	8°15	21°16	25° 0	S 11
M12	21 21 57	19° 9'26	26°44	29°30	25°55	19°55	26°44	29°37	29°33	24°53	6°47	7°55	8°12	21°23	24°57	M12
T 13	21 25 53	20° 7'10	99548	1 <b>m</b> y 19	27° 9	20°33	26°55	29°34	29°35	24°55	6°47	7°48	8° 9	21°30	24°54	T 13
W14	21 29 50	21° 4'56	23°17	3° 7	28°23	21°12	27° 7	29°31	29°38	24°57	6°47	7°39	8° 6	21°36	24°51	W14
T 15	21 33 47	22° 2'44	7 <b>Ω</b> 11	4°54	29°38	21°50	27°18	29°28	29°41	24°59	6°47	7°28	8° 2	21°43	24°48	T 15
F 16	21 37 43	23° 0'33	21°27	6°39	0 <b>m</b> 52	22°28	27°30	29°25	29°43	25° 1	6°47	7°16	7°59	21°50	24°45	F 16
S 17	21 41 40	23°58'23	5 <b>m</b> 57	8°23	2° 6	23° 7	27°42	29°21	29°45	25° 3	6°46	7° 6	7°56	21°56	24°42	S 17
S 18	21 45 36	24°56'15	20°37	10° 5	3°20	23°45	27°54	29°18	29°48	25° 5	6°46	6°58	7°53	22° 3	24°39	S 18
M19	21 49 33	25°54'08	5 <b>≙</b> 17	11°46	4°35	24°23	28° 5	29°15	29°50	25° 7	6°46	6°52	7°50	22°10	24°37	M19
T 20	21 53 29	26°52'02	19°52	13°26	5°49	25° 2	28°17	29°11	29°53	25° 9	6°46	6°49	7°47	22°16	24°34	T 20
W21	21 57 26	27°49'58	4 <b>M</b> .17	15° 4	7° 3	25°40	28°29	29° 8	29°55	25°11	6°45	6°D48	7°43	22°23	24°31	W21
T 22	22 1 22	28°47'55	18°29	16°41	8°18	26°19	28°41	29° 4	29°57	25°13	6°45	6°48	7°40	22°30	24°29	T 22
F 23	22 5 19	29°45'53	2×728	18°17	9°32	26°58	28°53	29° 0	29°59	25°15	6°45	6°R48	7°37	22°36	24°26	F 23
S 24	22 9 16	0 <b>m</b> 43'53	16°12	19°52	10°46	27°36	29° 5	28°56	099 2	25°17	6°44	6°47	7°34	22°43	24°23	S 24
S 25	22 13 12	1°41'54	29°42	21°25	12° 0	28°15	29°18	28°53	0° 4	25°19	6°44	6°44	7°31	22°50	24°21	S 25
M26	22 17 9	2°39'56	13 <b>る</b> 0	22°57	13°15	28°54	29°30	28°49	0° 6	25°21	6°44	6°38	7°27	22°56	24°19	M26
T 27	22 21 5	3°38'00	26° 6	24°27	14°29	29°32	29°42	28°45	0° 8	25°24	6°43	6°30	7°24	23° 3	24°16	T 27
W28	22 25 2	4°36'05	8≈59	25°57	15°43	0 <b>亞</b> 11	29°54	28°41	0°10	25°26	6°43	6°21	7°21	23° 9	24°14	W28
T 29	22 28 58	5°34'12	21°40	27°25	16°58	0°50	0요 7	28°37	0°12	25°28	6°42	6°10	7°18	23°16	24°12	T 29
F 30	22 32 55	6°32'21	4 <b>)</b> 9	28°51	18°12	1°29	0°19	28°32	0°14	25°30	6°42	5°59	7°15	23°23	24° 9	F 30
S 31	22 36 51	7 <b>m</b> 30'31	16 <b>米</b> 27	0 <b>ჲ</b> 17	19 <b>m</b> 26	2 <b>₾</b> 8	0 <b>亞</b> 31	28 <b>米</b> 28	0916	25 <b>m</b> 32	6 <b>8</b> 41	5 <b>8</b> 49	7 <b>8</b> 12	23 <b>Y</b> 29	24중 7	S 31

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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	18n 9	21 s50	4s59	19n58	1n42	18n22	1n16	7n30	0n52	3n12	1n11	2s13	2 s27	23n41	0n12	3n23	1n19	1 s29 16 s	9 14n28	14n27	6n22	13 s41	7n31
F 2	17 54	17 35	4 48	19 27	1 44	18 1	1 17	7 15	0 52	3 7	1 11	2 14	2 27	23 41	0 12	3 22	1 19	1 29 16	9 14 24	14 26	6 26	13 42	7 31
S 3	17 38	12 40	4 22	18 55	1 46	17 41	1 18	7 0	0 51	3 3	1 10	2 15	2 27	23 41	0 12	3 21	1 19	1 29 16 1	0 14 20	14 25	6 29	13 43	7 30
S 4	17 23	7 20	3 44	18 20	1 46	17 20	1 19	6 45	0 51	2 58	1 10	2 16	2 27	23 41	0 12	3 20	1 19	1 30 16 1	0 14 17	14 24	6 32	13 44	7 30
M 5	17 7	1 49	2 57	17 44	1 46	16 58	1 20	6 30	0 50	2 54	1 10	2 17	2 28	23 41	0 12	3 20	1 19	1 30 16 1	0 14 15	14 23	6 35	13 44	7 30
T 6	16 50	3n42	2 3	17 7	1 45	16 36	1 21	6 15	0 50	2 50	1 10	2 18	2 28	23 41	0 12	3 19	1 19	1 30 16 1	1 14 14	14 22	6 39	13 45	7 30
W 7	16 34	9 3	1 4	16 29	1 44	16 13	1 22	6 0	0 49	2 45	1 10	2 19	2 28	23 41	0 12	3 18	1 19	1 30 16 1	1 14 13	14 21	6 42	13 46	7 30
T 8	16 17	14 6	0 2	15 50	1 42	15 50	1 22	5 44	0 49	2 40	1 10	2 21	2 28	23 41	0 12	3 18	1 19	1 31 16 1	1 14 13	14 20	6 45	13 47	7 29
F 9	16 0	18 40	1n 1	15 9	1 40	15 27	1 23	5 29	0 48	2 36	1 10	2 22	2 28	23 41	0 12	3 17	1 19	1 31 16 1	2 14 13	14 19	6 49	13 47	7 29
S 10	15 42	22 33	2 2	14 28	1 37	15 3	1 24	5 13	0 47	2 31	1 10	2 23	2 29	23 41	0 12	3 16	1 19	1 31 16 1	2 14 13	14 18	6 52	13 48	7 29
S 11	15 25	25 29	2 59	13 46	1 33	14 39	1 24	4 58	0 47	2 27	1 10	2 25	2 29	23 41	0 12	3 15	1 19	1 32 16 1	2 14 12	14 17	6 55	13 49	7 29
M12	15 7	27 15	3 48	13 4	1 29	14 14	1 25	4 43	0 46	2 22	1 10	2 26	2 29	23 41	0 12	3 15	1 19	1 32 16 1	2 14 11	14 16	6 58	13 50	7 29
T 13	14 49	27 34	4 27	12 21	1 25	13 49	1 25	4 27	0 46	2 17	1 9	2 27	2 29	23 41	0 12	3 14	1 19	1 32 16 1	3 14 8	14 15	7 2	13 51	7 28
W14	14 30	26 17	4 52	11 38	1 20	13 23	1 25	4 11	0 45	2 13	1 9	2 29	2 30	23 41	0 12	3 13	1 19	1 33 16 1	3 14 5	14 14	7 5	13 51	7 28
T 15	14 11	23 22	5 2	10 54	1 15	12 58	1 25	3 56	0 45	2 8	1 9	2 30	2 30	23 41	0 12	3 12	1 19	1 33 16 1	3 14 2	14 13	7 8	13 52	7 28
F 16	13 53	19 0	4 53	10 10	1 10	12 31	1 26	3 40	0 44	2 3	1 9	2 32	2 30	23 41	0 12	3 11	1 19	1 33 16 1	4 13 58	14 12	7 11	13 53	7 27
S 17	13 34	13 27	4 25	9 26	1 4	12 5	1 26	3 24	0 43	1 58	1 9	2 33	2 30	23 41	0 12	3 11	1 19	1 34 16 1	4 13 55	14 11	7 15	13 54	7 27
S 18	13 14	7 5	3 39	8 42	0 58	11 38	1 26	3 9	0 43	1 54	1 9	2 35	2 30	23 41	0 12	3 10	1 19	1 34 16 1	4 13 52	14 10	7 18	13 54	7 27
M19	12 55	0 20	2 39	7 57	0 51	11 11	1 26	2 53	0 42	1 49	1 9	2 36	2 31	23 41	0 12	3 9	1 19	1 34 16 1	5 13 50	14 9	7 21	13 55	7 27
T 20	12 35	6 s 2 5	1 29	7 13	0 45	10 44	1 26	2 37	0 42	1 44	1 9	2 38	2 31	23 41	0 12	3 8	1 19	1 35 16 1	5 13 49	14 8	7 25	13 56	7 26
W21	12 15	12 46	0 13	6 28	0 38	10 16	1 26	2 21	0 41	1 39	1 9	2 39	2 31	23 41	0 12	3 7	1 19	1 35 16 1	5 13 49	14 7	7 28	13 57	7 26
T 22	11 55	18 22	1 s 2	5 44	0 31	9 48	1 25	2 5	0 41	1 34	1 9	2 41	2 31	23 41	0 12	3 7	1 19	1 36 16 1	5 13 49	14 6	7 31	13 57	7 26
F 23	11 35	22 51	2 12	5 0	0 24	9 20	1 25	1 49	0 40	1 29	1 9	2 43	2 31	23 41	0 12	3 6	1 19	1 36 16 1	6 13 49	14 5	7 34	13 58	7 25
S 24	11 14	25 59	3 14	4 16	0 16	8 51	1 25	1 33	0 39	1 25	1 8	2 44	2 32	23 41	0 12	3 5	1 19	1 36 16 1	6 13 49	14 4	7 38	13 59	7 25
S 25	10 54	27 33	4 3	3 32	0 8	8 22	1 24	1 18	0 39	1 20	1 8	2 46	2 32	23 41	0 12	3 4	1 19	1 37 16 1	6 13 48	14 3	7 41	14 0	7 25
M26	10 33	27 28	4 39	2 49	0 1	7 53	1 24	1 2	0 38	1 15	1 8	2 48	2 32	23 42	0 12	3 3	1 19	1 37 16 1	7 13 46	14 2	7 44	14 1	7 24
T 27	10 12	25 52	4 59	2 6	0s 7	7 24	1 23	0 46	0 38	1 10	1 8	2 49	2 32	23 42	0 12	3 2	1 19	1 37 16 1	7 13 43	14 1	7 47	14 1	7 24
W28	9 51	22 55	5 3	1 23	0 15	6 55	1 23	0 30	0 37	1 5	1 8	2 51	2 32	23 42	0 12	3 2	1 19	1 38 16 1	7 13 40	14 0	7 51	14 2	7 23
T 29	9 29	18 56	4 53	0 40	0 23	6 25	1 22	0 14	0 37	1 0	1 8	2 53	2 32	23 42	0 12	3 1	1 19	1 38 16 1	7 13 36	13 59	7 54	14 3	7 23
F 30	9 8	14 10	4 28	0s 2	0 32	5 55	1 21	0 s 2	0 36	0 55	1 8	2 55	2 32	23 42	0 12	3 0	1 19	1 39 16 1	8 13 33	13 58	7 57	14 4	7 23
S 31	8n46	8 s 5 5	3 s52	0s43	0 s40	5n25	1n21	0s19	0n35	0n50	1n 8	2 s 5 7	2 s33	23n42	0n12	2n59	1n19	1s39 16s1	8 13n29	13n57	8n 0	14s 4	7n22
																				1 1			

Julian Day Number = 2310408.5, Delta T = 72.84 sec Ecliptic obliquity =  $23^{\circ}29'29$ , Nutation = -  $0^{\circ}00'09$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}20'50$ , Lahiri =  $18^{\circ}27'50$ Greg. Calendar

SEPTEMBER 1613 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	¥	Р	n	Ω	Ç	ę,	Day
S 1	22 40 48	8 m 28'43	28 <b>)</b> (33	1 <b>≙</b> 40	20 <b>m</b> 41	2 <b>≙</b> 47	0 <b>ჲ</b> 44	28°R24	09917	25 m/34	6°R41	5°R41	7 <b>と</b> 8	23Υ36	24°R 5	S 1
M 2	22 44 45	9°26'56	10 <b>Y</b> 30	3° 3	21°55	3°26	0°56	28 <b>米</b> 20	0°19	25°36	6 <b>8</b> 40	5 <b>8</b> 36	7° 5	23°43	24궁 3	M 2
T 3	22 48 41	10°25'12	22°21	4°24	23° 9	4° 5	1° 9	28°16	0°21	25°38	6°40	5°33	7° 2	23°49	24° 1	T 3
W 4	22 52 38	11°23'30	4 <b>8</b> 8	5°44	24°24	4°45	1°21	28°11	0°23	25°41	6°39	5°D32	6°59	23°56	23°59	W 4
T 5	22 56 34	12°21'50	15°55	7° 2	25°38	5°24	1°34	28° 7	0°24	25°43	6°39	5°32	6°56	24° 3	23°57	T 5
F 6	23 0 31	13°20'12	27°48	8°19	26°52	6° 3	1°47	28° 2	0°26	25°45	6°38	5°33	6°53	24° 9	23°56	F 6
S 7	23 4 27	14°18'36	9∏50	9°34	28° 7	6°42	1°59	27°58	0°27	25°47	6°37	5°R34	6°49	24°16	23°54	S 7
S 8	23 8 24	15°17'02	22° 9	10°47	29°21	7°22	2°12	27°53	0°29	25°49	6°37	5°34	6°46	24°23	23°52	S 8
M 9	23 12 20	16°15'31	49647	11°59	0 <b>ჲ</b> 35	8° 1	2°25	27°49	0°30	25°52	6°36	5°32	6°43	24°29	23°51	M 9
T 10	23 16 17	17°14'02	17°51	13° 9	1°50	8°41	2°37	27°44	0°32	25°54	6°36	5°28	6°40	24°36	23°49	T 10
W11	23 20 14	18°12'34	1 <b>£</b> 22	14°16	3° 4	9°20	2°50	27°40	0°33	25°56	6°35	5°23	6°37	24°43	23°48	W11
T 12	23 24 10	19°11'09	15°21	15°22	4°18	10° 0	3° 3	27°35	0°34	25°58	6°34	5°16	6°33	24°49	23°46	T 12
F 13	23 28 7	20° 9'46	29°45	16°26	5°33	10°39	3°16	27°31	0°36	26° 0	6°33	5° 9	6°30	24°56	23°45	F 13
S 14	23 32 3	21° 8'25	14 <b>m</b> 30	17°27	6°47	11°19	3°28	27°26	0°37	26° 3	6°33	5° 2	6°27	25° 2	23°44	S 14
S 15	23 36 0	22° 7'06	29°28	18°26	8° 1	11°59	3°41	27°21	0°38	26° 5	6°32	4°57	6°24	25° 9	23°42	S 15
M16	23 39 56	23° 5'49	14 <u>₽</u> 30	19°22	9°16	12°39	3°54	27°17	0°39	26° 7	6°31	4°53	6°21	25°16	23°41	M16
T 17	23 43 53	24° 4'34	29°27	20°15	10°30	13°18	4° 7	27°12	0°40	26° 9	6°30	4°D52	6°18	25°22	23°40	T 17
W18	23 47 49	25° 3'21	14ML12	21° 5	11°44	13°58	4°20	27° 7	0°41	26°12	6°30	4°52	6°14	25°29	23°39	W18
T 19	23 51 46	26° 2'09	28°40	21°52	12°59	14°38	4°33	27° 3	0°42	26°14	6°29	4°53	6°11	25°36	23°38	T 19
F 20	23 55 43	27° 1'00	12 <b>~</b> 47	22°35	14°13	15°18	4°46	26°58	0°43	26°16	6°28	4°54	6°8	25°42	23°38	F 20
S 21	23 59 39	27°59'52	26°33	23°14	15°27	15°58	4°59	26°53	0°44	26°18	6°27	4°R55	6° 5	25°49	23°37	S 21
S 22	0 3 36	28°58'45	9 <b>궁</b> 59	23°48	16°42	16°38	5°12	26°48	0°45	26°21	6°26	4°54	6° 2	25°56	23°36	S 22
M23	0 732	29°57'41	23° 7	24°19	17°56	17°18	5°25	26°44	0°45	26°23	6°25	4°52	5°59	26° 2	23°35	M23
T 24	0 11 29	0 <b>ჲ</b> 56'38	5≈58	24°44	19°10	17°59	5°38	26°39	0°46	26°25	6°25	4°49	5°55	26° 9	23°35	T 24
W25	0 15 25	1°55'37	18°34	25° 3	20°25	18°39	5°51	26°34	0°47	26°27	6°24	4°44	5°52	26°16	23°34	W25
T 26	0 19 22	2°54'38	0 <b>∺</b> 59	25°17	21°39	19°19	6° 4	26°30	0°47	26°29	6°23	4°38	5°49	26°22	23°34	T 26
F 27	0 23 18	3°53'41	13°12	25°24	22°53	19°59	6°17	26°25	0°48	26°32	6°22	4°33	5°46	26°29	23°34	F 27
S 28	0 27 15	4°52'45	25°17	25°R25	24° 8	20°40	6°30	26°21	0°48	26°34	6°21	4°28	5°43	26°36	23°33	S 28
S 29	0 31 12	5°51'52	7 <b>Υ</b> 14	25°18	25°22	21°20	6°43	26°16	0°49	26°36	6°20	4°24	5°39	26°42	23°33	S 29
M30	0 35 8	6 <b>₽</b> 51'00	19 <b>Y</b> 6	25 <b>♀</b> 4	26 <b>₽</b> 36	22 <b>º</b> 1	6 <b>₽</b> 56	26 <b>)</b> 11	0 <b>9</b> 49	26 <b>m</b> 38	6 <b>8</b> 19	4821	5 <b>8</b> 36	26 <b>Ƴ</b> 49	23 <b>云</b> 33	M30

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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 M 2 T 3 W 4	8n25 8 3 7 41 7 18	3 s24 3 s 5 2n10 2 10 7 38 1 10 12 48 0 8	2 5 0 57 2 45 1 5	4n55 1n20 4 25 1 19 3 55 1 18 3 24 1 17	0 s35 0n35 0 51 0 34 1 7 0 34 1 23 0 33	0n45 1n 8 0 40 1 8 0 35 1 8 0 30 1 8	3 0 2 33	23 42 0 12	2 57 1 19	1 40 16 19 1 40 16 19	13n27 13n56 13 25 13 55 13 24 13 53 13 24 13 52	8 7 8 10	14 7 7 21
T 5 F 6 S 7	6 56 6 34 6 11	17 32 0n56 21 37 1 57	4 3 1 22 4 41 1 30	2 54 1 16 2 23 1 14	1 39 0 33 1 55 0 32 2 11 0 31	0 25 1 8 0 20 1 8 0 15 1 8	3 6 2 33 3 8 2 33	23 42 0 12 23 42 0 12	2 55 1 19 2 54 1 19	1 41 16 19 1 42 16 20	13 24 13 52 13 24 13 50 13 24 13 49	8 17 8 20	14 8 7 20
S 8 M 9 T 10 W11 T 12 F 13 S 14	5 26	-	6 31 1 55 7 6 2 3 7 39 2 11 8 12 2 19 8 44 2 27		2 27 0 31 2 43 0 30 3 0 0 30 3 16 0 29 3 32 0 29 3 48 0 28 4 4 0 27	-	3 13 2 34 3 15 2 34	23 42 0 12 23 42 0 12	2 51 1 19 2 50 1 19 2 49 1 19 2 49 1 19 2 48 1 19	1 43 16 20 1 43 16 21 1 44 16 21 1 44 16 21 1 45 16 21	13 24 13 48 13 24 13 47 13 23 13 46 13 21 13 45 13 18 13 44 13 16 13 43 13 14 13 42	8 30 8 33 8 36 8 39 8 43	14 10 7 19 14 11 7 18 14 12 7 18 14 12 7 17 14 13 7 17 14 14 7 16 14 14 7 16
S 15 M16 T 17 W18 T 19 F 20 S 21			10 12 2 49 10 39 2 56 11 4 3 2 11 27 3 9 11 48 3 14	3 48 0 56 4 19 0 54	4 20 0 27 4 36 0 26 4 52 0 26 5 8 0 25 5 24 0 24 5 40 0 24 5 56 0 23	0 26 1 7 0 32 1 7 0 37 1 7 0 42 1 7 0 47 1 7 0 52 1 7 0 57 1 7	3 25 2 34 3 27 2 34 3 28 2 34 3 30 2 34 3 32 2 34 3 34 2 34 3 36 2 34	23 42 0 12 23 42 0 12 23 42 0 12 23 42 0 12 23 42 0 13	2 45 1 19 2 44 1 19 2 43 1 19 2 42 1 19 2 42 1 19	1 46 16 22 1 46 16 22 1 47 16 22 1 47 16 23 1 48 16 23	13 12 13 41 13 11 13 40 13 10 13 39 13 10 13 38 13 11 13 36 13 11 13 36 13 11 13 35	8 52 8 56 8 59 9 2 9 5	14 15 7 16 14 16 7 15 14 16 7 15 14 17 7 14 14 18 7 14 14 18 7 13 14 19 7 13
S 22 M23 T 24 W25 T 26 F 27 S 28	0 1 0 s23 0 46 1 10 1 33 1 57	20 5 5 3 15 30 4 40 10 22 4 4 4 54 3 18	12 40 3 29 12 53 3 32 13 3 3 35 13 9 3 36 13 13 3 37 13 13 3 37	6 21 0 46 6 51 0 44 7 21 0 42 7 51 0 39 8 21 0 37 8 50 0 35	6 12 0 23 6 28 0 22 6 44 0 22 7 0 0 21 7 16 0 20 7 32 0 20 7 47 0 19	1 8 1 7 1 13 1 7 1 18 1 7 1 23 1 7 1 28 1 7 1 33 1 7	3 40 2 34 3 42 2 34 3 44 2 35 3 45 2 35 3 47 2 35 3 49 2 34	23 42 0 13 23 42 0 13	2 39 1 19 2 38 1 19 2 37 1 19 2 36 1 19 2 35 1 19 2 34 1 19	1 49 16 23 1 49 16 24 1 50 16 24 1 50 16 24 1 51 16 24	13 8 13 30 13 6 13 29 13 4 13 28 13 2 13 27	9 15 9 18 9 21 9 25 9 28 9 31	14 22 7 10 14 22 7 9 14 23 7 9
S 29 M30	2 20 2 s44	0n41 2 23 6n13 1 s23	13 9 3 36 13s 1 3s33		8 3 0 19 8 s 19 0 n 1 8			23 42 0 13 23n42 0n13		1 52 16 24 1 s52 16 s25	13 1 13 26 13n 0 13n25		14 24 7 8 14 s 24 7 n 8

Julian Day Number = 2310439.5, Delta T = 72.75 sec Ecliptic obliquity = 23°29'30, Nutation = -0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°20'54, Lahiri =  $18^\circ27'54$ Greg. Calendar

OCTOBER 1613 GC 00:00 UT

Day	Sid.t	0	D	ğ	0	♂	)ı	Ł	)∤(	¥	Р	n	Ω	•	K	Day
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T 1	0 39 5	7 <b>≙</b> 50'11	0 <b>8</b> 54	24°R42	27 <b>≙</b> 51	22 <b>≏</b> 41	7 <b>≙</b> 9	26°R 7	09549	26 <b>m</b> 40	6°R18	4°D20	5 <b>8</b> 33	26 <b>Y</b> 55	23°D33	T 1
W 2	0 43 1	8°49'24	12°40	24 <b>₽</b> 12	29° 5	23°22	7°22	26 <b>¥</b> 2	0°50	26°43	6 <b>8</b> 17	4821	5°30	27° 2	23 <b>る</b> 33	W 2
T 3	0 46 58	9°48'40	24°29	23°34	0 <b>M</b> .19	24° 2	7°35	25°58	0°50	26°45	6°16	4°22	5°27	27° 9	23°33	T 3
F 4	0 50 54	10°47'57	6 <b>Ⅱ</b> 23	22°48	1°34	24°43	7°48	25°53	0°50	26°47	6°15	4°23	5°24	27°15	23°33	F 4
S 5	0 54 51	11°47'17	18°27	21°55	2°48	25°24	8° 1	25°49	0°50	26°49	6°14	4°25	5°20	27°22	23°34	S 5
S 6	0 58 47	12°46'39	09544	20°55	4° 2	26° 4	8°14	25°45	0°50	26°51	6°13	4°26	5°17	27°29	23°34	S 6
M 7	1 2 44	13°46'04	13°20	19°50	5°16	26°45	8°27	25°40	0°R50	26°54	6°12	4°R27	5°14	27°35	23°34	M 7
T 8	1 6 41	14°45'31	26°18	18°40	6°31	27°26	8°40	25°36	0°50	26°56	6°11	4°26	5°11	27°42	23°35	T 8
W 9	1 10 37	15°45'00	9 <b>Ω</b> 42	17°27	7°45	28° 7	8°53	25°32	0°50	26°58	6°10	4°25	5° 8	27°49	23°35	W 9
T 10	1 14 34	16°44'31	23°33	16°14	8°59	28°48	9° 6	25°27	0°50	27° 0	6° 9	4°23	5° 4	27°55	23°36	T 10
F 11	1 18 30	17°44'05	7 <b>m</b> 53	15° 3	10°13	29°29	9°19	25°23	0°50	27° 2	6° 8	4°21	5° 1	28° 2	23°37	F 11
S 12	1 22 27	18°43'41	22°36	13°55	11°28	0 <b>M</b> .10	9°32	25°19	0°49	27° 4	6° 7	4°19	4°58	28° 9	23°37	S 12
S 13	1 26 23	19°43'19	7 <b>≙</b> 38	12°52	12°42	0°51	9°44	25°15	0°49	27° 6	6° 6	4°17	4°55	28°15	23°38	S 13
M14	1 30 20	20°42'59	22°49	11°57	13°56	1°33	9°57	25°11	0°49	27° 8	6° 5	4°16	4°52	28°22	23°39	M14
T 15	1 34 16	21°42'42	8 <b>M</b> . 1	11°11	15°10	2°14	10°10	25° 7	0°48	27°11	6° 4	4°D16	4°49	28°28	23°40	T 15
W16	1 38 13	22°42'26	23° 3	10°35	16°25	2°55	10°23	25° 3	0°48	27°13	6° 2	4°17	4°45	28°35	23°41	W16
T 17	1 42 9	23°42'12	7 <b>√</b> 149	10°10	17°39	3°37	10°36	25° 0	0°47	27°15	6° 1	4°17	4°42	28°42	23°42	T 17
F 18	1 46 6	24°42'00	22°11	9°56	18°53	4°18	10°49	24°56	0°47	27°17	6° 0	4°18	4°39	28°48	23°44	F 18
S 19	1 50 3	25°41'50	6 <b>ප</b> 9	9°D54	20° 7	4°59	11° 2	24°52	0°46	27°19	5°59	4°19	4°36	28°55	23°45	S 19
S 20	1 53 59	26°41'41	19°40	10° 2	21°22	5°41	11°15	24°48	0°46	27°21	5°58	4°19	4°33	29° 2	23°46	S 20
M21	1 57 56	27°41'34	2≈47	10°22	22°36	6°22	11°27	24°45	0°45	27°23	5°57	4°R19	4°30	29° 8	23°48	M21
T 22	2 1 52	28°41'29	15°33	10°51	23°50	7° 4	11°40	24°41	0°44	27°25	5°56	4°19	4°26	29°15	23°49	T 22
W23	2 5 49	29°41'25	28° 1	11°29	25° 4	7°46	11°53	24°38	0°43	27°27	5°55	4°19	4°23	29°22	23°51	W23
T 24	2 9 45	0 <b>M</b> 41'23	10 <b>) (</b> 15	12°16	26°18	8°27	12° 5	24°35	0°42	27°29	5°54	4°18	4°20	29°28	23°52	T 24
F 25	2 13 42	1°41'22	22°18	13°10	27°32	9° 9	12°18	24°31	0°41	27°31	5°52	4°18	4°17	29°35	23°54	F 25
S 26	2 17 38	2°41'24	<b>4Υ</b> 13	14°11	28°47	9°51	12°31	24°28	0°40	27°32	5°51	4°17	4°14	29°42	23°56	S 26
S 27	2 21 35	3°41'27	16° 3	15°17	0 <b>×</b> 1	10°33	12°43	24°25	0°39	27°34	5°50	4°17	4°10	29°48	23°58	S 27
M28	2 25 32	4°41'32	27°51	16°29	1°15	11°15	12°56	24°22	0°38	27°36	5°49	4°17	4° 7	29°55	24° 0	M28
T 29	2 29 28	5°41'38	9839	17°45	2°29	11°57	13° 8	24°19	0°37	27°38	5°48	4°17	4° 4	0 <b>8</b> 2	24° 2	T 29
W30	2 33 25	6°41'47	21°30	19° 4	3°43	12°39	13°21	24°16	0°36	27°40	5°47	4°17	4° 1	0° 8	24° 4	W30
T 31	2 37 21	7 <b>M</b> 41'58	3 <b>Ⅱ</b> 24	20 <b>≙</b> 27	4 <b>∡</b> 757	13 <b>M</b> 21	13 <b>≏</b> 33	24 <b>)</b> 14	0935	27 <b>m</b> 42	5 <b>8</b> 46	4 <b>8</b> 17	3 <b>8</b> 58	0 <b>8</b> 15	24궁 6	T 31

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T 1 W 2 T 3 F 4 S 5	4 17	16 24 0n46 20 41 1 49 24 10 2 48	5 12 32 0 12 11 8 11 45	3 s28 10 s18 3 22 10 47 3 15 11 15 3 5 11 43 2 54 12 11	0n28 8s34 0 25 8 50 0 23 9 6 0 20 9 21 0 18 9 37	0 17 0 16 0 16	2 4	1n 7 1 7 1 7 1 7	3 s 5 5 3 5 6 3 5 8 4 0 4 2	2 34 2 34 2 34	23n42 23 42 23 42 23 42 23 42	0 13 0 13 0 13	2 31 1 2 30 1 2 29 1	19	1 s53 16 s25 1 53 16 25 1 53 16 25 1 54 16 25 1 54 16 25	13 0 13 0 13 1	13n24 13 23 13 22 13 21 13 20	9 44 9 47 9 50	14 s 25 14 25 14 26 14 26 14 27	7n 7 7 7 7 6 7 6 7 5
S 6 M 7 T 8 W 9	5 3 5 27 5 50 6 13	27 53 4 23 27 43 4 55 26 3 5 13 22 55 5 15	3 10 40 5 10 1 6 9 19 5 8 34	2 41 12 39 2 26 13 7 2 9 13 34 1 51 14 0	0 15 9 52 0 13 10 7 0 10 10 23 0 7 10 38	0 14 0 14 0 13 0 13	2 15 2 20 2 25 2 30	1 7 1 7 1 7 1 7	4 3 4 5 4 7 4 8	2 34 2 34 2 34 2 34	23 42 23 42 23 42 23 42	0 13 0 13 0 13 0 13	2 28 1 2 27 1 2 26 1 2 25 1	19 19 19 19	1 55 16 25 1 55 16 25 1 56 16 26 1 56 16 26	13 2 13 2 13 2 13 1	13 19 13 18 13 17 13 16	9 57 10 0 10 3 10 6	14 27 14 28 14 28 14 28	7 5 7 4 7 4 7 3
T 10 F 11 S 12	6 58 7 21	18 23 4 59 12 43 4 24 6 10 3 31	7 2 6 17	1 32 14 27 1 11 14 53 0 51 15 19	0 5 10 53 0 2 11 8 0s 0 11 23	0 12	2 35 2 40 2 45	1 7 1 7 1 7	4 10 4 11 4 13	2 34	23 42 23 42 23 42	0 13	2 23 1	19	1 56 16 26 1 57 16 26 1 57 16 26	13 0	13 15 13 13 13 12	10 13	14 29	7 3 7 2 7 2
S 13 M14 T 15 W16 T 17 F 18 S 19	7 44 8 6 8 29 8 51 9 13 9 35 9 57	20 14 1 42 24 33 2 56 27 11 3 56	3 4 53 4 17 2 3 46 5 3 20 5 3 1	0 30 15 44 0 10 16 9 0n10 16 34 0 28 16 58 0 45 17 21 1 1 17 45 1 15 18 7	0 3 11 38 0 6 11 53 0 9 12 8 0 11 12 23 0 14 12 37 0 17 12 52 0 19 13 6	0 10 0 9 0 9 0 8 0 7		1 7 1 7 1 7 1 7 1 7 1 7 1 8	4 14 4 16 4 17 4 19 4 20 4 22 4 23	2 34 2 33 2 33 2 33	23 42 23 42 23 42 23 42		2 21 1 2 20 1 2 19 1 2 19 1 2 18 1	1 19 1 19 1 19 1 19 1 19	1 59 16 26	12 58 12 58 12 58 12 59 12 59	13 10 13 9 13 8 13 7 13 6	10 22 10 25 10 29 10 32 10 35	14 30 14 31 14 31 14 31	7 1 7 1 7 0 6 59 6 59 6 58 6 58
S 20 M21 T 22 W23 T 24 F 25 S 26	11 23	24 43 5 18 21 10 5 12 16 44 4 51 11 42 4 17 6 19 3 33	3 2 37 2 2 40 2 48 7 3 1 3 3 18	1 27 18 30 1 38 18 52 1 47 19 13 1 54 19 34 2 0 19 54 2 5 20 14 2 8 20 33	0 22 13 21 0 25 13 35 0 28 13 49 0 30 14 4 0 33 14 18 0 36 14 32 0 38 14 46	0 4 0 4 0 3	3 25 3 30 3 35 3 40 3 45 3 50 3 55	1 8 1 8 1 8 1 8 1 8 1 8	4 24 4 26 4 27 4 28 4 29 4 31 4 32	2 33 2 33 2 33 2 32 2 32	23 43 23 43	0 13	2 15 1 2 15 1 2 14 1 2 13 1 2 12 1	1 19 1 19 1 19 1 19 1 20	2 1 16 26 2 1 16 26	12 59 12 59 12 59 12 59 12 59	13 3 13 2 13 1 13 0 12 58	10 48 10 51 10 54 10 57	14 33 14 33 14 33 14 34	6 57 6 57 6 56 6 56 6 55 6 55 6 54
S 27 M28 T 29 W30 T 31	13 47	10 11 0 36 15 13 0n30 19 41 1 34	5 4 29 0 4 58 4 5 29	2 10 20 52 2 11 21 10 2 11 21 28 2 10 21 45 2n 8 22s 1	0 41 14 59 0 44 15 13 0 46 15 27 0 49 15 40 0 s52 15 s53	0 1 0 1 0 0		1 8 1 8 1 8 1 8 1n 8	4 33 4 34 4 35 4 36 4 s37	2 32 2 32 2 32	23 43 23 43 23 43 23 43 23 n43	0 13 0 13 0 13	2 10 1 2 10 1 2 9 1	20 20 20 20	2 4 16 26		12 55 12 54 12 53	11 7 11 10 11 13	14 34 14 34 14 34	6 54 6 53 6 53 6 52 6n52

Julian Day Number = 2310469.5, Delta T = 72.67 sec Ecliptic obliquity =  $23^{\circ}29'30$ , Nutation = -  $0^{\circ}00'11$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}20'58$ , Lahiri =  $18^{\circ}27'59$ Greg. Calendar

NOVEMBER 1613 GC 00:00 UT

1101	HIDEN 3	LUIJ UC													00.0	0 01
Day	Sid.t	0	)	ğ	φ	♂	4	ħ	)મ(	并	В	S.	Ω	Ç	ķ	Day
F 1	2 41 18	8ML42'10	15 <b>Ⅱ</b> 25	21 <b>≏</b> 53	6 <b>₹</b> 11	14 <b>M</b> 3	13 <u>₽</u> 46	24°R11	0°R33	27 <b>m</b> )44	5°R45	4°R16	3 <b>8</b> 55	0821	24궁 8	F 1
S 2	2 45 14	9°42'25	27°35	23°20	7°25	14°45	13°58	24 <b>∺</b> 8	0932	27°45	5 <b>8</b> 43	4816	3°51	0°28	24°10	S 2
S 3	2 49 11	10°42'41	9957	24°49	8°39	15°27	14°10	24° 6	0°31	27°47	5°42	4°15	3°48	0°35	24°12	S 3
M 4	2 53 7	11°43'00	22°35	26°20	9°53	16°10	14°23	24° 4	0°29	27°49	5°41	4°14	3°45	0°41	24°15	M 4
T 5	2 57 4	12°43'20	5 <b>Ω</b> 30	27°52	11° 7	16°52	14°35	24° 1	0°28	27°51	5°40	4°14	3°42	0°48	24°17	T 5
W 6	3 1 1	13°43'42	18°47	29°25	12°22	17°34	14°47	23°59	0°26	27°52	5°39	4°D14	3°39	0°55	24°20	W 6
T 7	3 4 57	14°44'07	2 Mp 27	0 <b>M</b> .59	13°36	18°17	14°59	23°57	0°25	27°54	5°38	4°14	3°36	1° 1	24°22	T 7
F 8	3 8 54	15°44'33	16°31	2°33	14°50	18°59	15°11	23°55	0°23	27°56	5°37	4°15	3°32	1°8	24°25	F 8
S 9	3 12 50	16°45'01	ე <b>ჲ</b> 59	4° 8	16° 4	19°42	15°23	23°53	0°22	27°57	5°36	4°16	3°29	1°15	24°28	S 9
S 10	3 16 47	17°45'31	15°47	5°43	17°18	20°25	15°35	23°51	0°20	27°59	5°35	4°17	3°26	1°21	24°30	S 10
M11	3 20 43	18°46'03	0 <b>M</b> .50	7°18	18°31	21° 7	15°47	23°49	0°18	28° 0	5°33	4°R18	3°23	1°28	24°33	M11
T 12	3 24 40	19°46'36	16° 0	8°54	19°45	21°50	15°59	23°48	0°17	28° 2	5°32	4°17	3°20	1°35	24°36	T 12
W13	3 28 36	20°47'12	1 <b>√</b> 7	10°29	20°59	22°33	16°11	23°46	0°15	28° 3	5°31	4°16	3°16	1°41	24°39	W13
T 14	3 32 33	21°47'48	16° 1	12° 5	22°13	23°16	16°23	23°45	0°13	28° 5	5°30	4°14	3°13	1°48	24°42	T 14
F 15	3 36 30	22°48'26	0 <b>궁</b> 36	13°40	23°27	23°58	16°35	23°44	0°11	28° 6	5°29	4°12	3°10	1°54	24°45	F 15
S 16	3 40 26	23°49'06	14°46	15°16	24°41	24°41	16°46	23°42	0° 9	28° 8	5°28	4° 9	3° 7	2° 1	24°48	S 16
S 17	3 44 23	24°49'46	28°28	16°51	25°55	25°24	16°58	23°41	0° 7	28° 9	5°27	4° 7	3° 4	2° 8	24°51	S 17
M18	3 48 19	25°50'28	11≈42	18°27	27° 9	26° 7	17° 9	23°40	0° 5	28°11	5°26	4° 5	3° 1	2°14	24°55	M18
T 19	3 52 16	26°51'10	24°31	20° 2	28°23	26°50	17°21	23°40	0° 3	28°12	5°25	4°D 4	2°57	2°21	24°58	T 19
W20	3 56 12	27°51'54	6 <b>∺</b> 58	21°37	29°37	27°33	17°32	23°39	0° 1	28°13	5°24	4° 5	2°54	2°28	25° 1	W20
T 21	4 0 9	28°52'39	19° 8	23°12	0 <b>궁</b> 50	28°17	17°43	23°38	29∏59	28°15	5°23	4° 6	2°51	2°34	25° 5	T 21
F 22	4 4 6	29°53'25	1 <b>Υ</b> 6	24°47	2° 4	29° 0	17°55	23°38	29°57	28°16	5°22	4° 8	2°48	2°41	25° 8	F 22
S 23	4 8 2	0 <b>∡</b> 754'11	12°57	26°21	3°18	29°43	18° 6	23°37	29°55	28°17	5°21	4° 9	2°45	2°48	25°12	S 23
S 24	4 11 59	1°54'59	24°44	27°56	4°32	0 <b>∡</b> 126	18°17	23°37	29°53	28°18	5°20	4°11	2°42	2°54	25°15	S 24
M25	4 15 55	2°55'48	6 <b>8</b> 31	29°30	5°45	1°10	18°28	23°36	29°50	28°20	5°19	4°R11	2°38	3° 1	25°19	M25
T 26	4 19 52	3°56'38	18°22	1 <b>√</b> 5	6°59	1°53	18°39	23°36	29°48	28°21	5°18	4°10	2°35	3° 8	25°23	T 26
W27	4 23 48	4°57'29	0 <b>Ⅱ</b> 18	2°39	8°13	2°37	18°50	23°D36	29°46	28°22	5°17	4° 7	2°32	3°14	25°26	W27
T 28	4 27 45	5°58'22	12°23	4°13	9°26	3°20	19° 0	23°36	29°44	28°23	5°16	4° 3	2°29	3°21	25°30	T 28
F 29	4 31 41	6°59'15	24°37	5°48	10°40	4° 4	19°11	23°37	29°41	28°24	5°15	3°58	2°26	3°28	25°34	F 29
S 30	4 35 38	8 <b>才</b> 0'10	7 <b>9</b> 5 1	7 <b>₹</b> 22	11 <b>る</b> 53	4 <b>₹</b> 47	19 <b>₽</b> 22	23 <b>)</b> 37	29∏39	28 <b>m</b> 25	5 <b>8</b> 14	3 <b>8</b> 52	2822	3 <b>8</b> 34	25 <b>云</b> 38	S 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
F 1	14 s26	26n10	3n29	6s36	2n 5	22 s 1 7	0s54	16s 6	0 s 1	4 s24	1n 8	4s38	2 s 3 1	23n43	0n13	2n 8			16 s26	12n58	12n51	11n19	14 s35	6n51
S 2	14 45	27 43	4 15	7 12	2 2	22 32	0 57	16 20	0 2	4 28	1 8	4 39	2 31	23 43	0 13	2 7	1 20	2 5	16 26	12 58	12 50	11 23	14 35	6 51
S 3	15 4	27 56	4 50	7 48	1 58	22 46	0 59	16 33	0 2	4 33	1 8	4 39	2 31	23 43	0 13	2 6	1 20	2 5	16 26	12 58	12 49	11 26	14 35	6 50
M 4	-	26 42	-	8 25	1 54		1 2		0 3	4 38	1 8	4 40	2 31		0 13		1 20	2 5				11 29		6 50
T 5	15 41		5 17	9 2		-			0 4	4 42	1 9	4 41		23 43	0 13		1 20	2 6				11 32		6 49
W 6		20 5						17 11	0 4	4 47	1 9	4 42		23 43	0 13		1 20	2 6				11 35		6 49
T 7 F 8	16 18	14 59 8 56		10 18 10 56				17 23 17 35	0 5 0 5	4 52 4 56	1 9 1 9	4 42 4 43		23 43 23 43	0 13 0 13		-	2 6 2 7				11 38 11 41		6 49
S 9	16 53			11 33				17 48	0 6	5 1	1 9	4 43		23 43	0 13							11 41		6 48
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S 10 M11	17 10	4 s 4 0 11 2 9		12 11 12 48			1 16 1 19	-	0 7 0 7	5 5 5 10	1 9 1 9	4 44 4 45	2 30	23 43 23 43	0 14		1 20 1 20					11 48	14 35	6 47 6 47
T 12	-, -,	17 41		13 25			1 19		0 8	5 14	1 9	4 45	2 29		0 14		1 20	2 8			-	11 51		6 46
W13		22 46			1 2		1 23		0 8	5 19	1 9	4 45		23 43	0 14			2 8				11 57		6 46
T 14	18 15	26 15		14 37			1 25	18 46	0 9	5 23	1 9	4 46		23 43	0 14	2 0	1 20	2 8				12 0		6 45
F 15	18 31	27 53	4 23	15 13	0 48	24 47	1 27	18 58	0 10	5 28	1 9	4 46	2 29	23 43	0 14	1 59	1 20	2 8	16 25	12 57	12 36	12 3	14 35	6 45
S 16	18 46	27 36	4 58	15 47	0 42	24 52	1 29	19 9	0 10	5 32	1 10	4 46	2 28	23 43	0 14	1 58	1 20	2 9	16 25	12 56	12 35	12 7	14 35	6 44
S 17	19 1	25 38	5 14	16 21	0 35	24 57	1 31	19 20	0 11	5 36	1 10	4 47	2 28	23 43	0 14	1 58	1 20	2 9	16 25	12 55	12 34	12 10	14 34	6 44
M18	19 16	22 19	5 13	16 55	0 28	25 1	1 33	19 31	0 11	5 41	1 10	4 47	2 28	23 43	0 14	1 57	1 20	2 9	16 25	12 54	12 33	12 13	14 34	6 44
T 19	19 30	-		17 27	0 21		1 35		0 12	5 45	1 10	4 47		23 43	0 14		1 21	2 9				12 16		6 43
W20	19 44			17 59				19 52	0 13	5 49	1 10	4 47		23 43	0 14			2 9				12 19		6 43
T 21 F 22	19 57			18 30					0 13	5 53	1 10	4 47		23 43	0 14			2 9				12 22		6 42
S 23	20 10 20 23		-	19 0 19 29		25 9		20 12 20 22	0 14 0 14	5 58 6 2	1 10 1 10	4 47 4 47		23 43 23 43	0 14 0 14							12 25	14 34	6 42 6 42
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S 24	20 35			19 57				20 32	0 15	6 6	1 10	4 47		23 43	0 14								14 33	6 41
M25 T 26		13 55 18 34		20 25 20 51	0 20			20 42 20 51	0 16 0 16	6 10 6 14	1 11 1 11	4 47 4 47		23 43 23 43	0 14 0 14							12 35 12 38		6 41
W27		22 31		20 31				20 51	0 16	6 18	1 11	4 47		23 43	0 14				-			12 38		6 40
T 28	-	25 32	-	21 40			1 49		0 17	6 22	1 11	4 46		23 43	0 14							12 41		6 40
F 29		27 24	-		0 45			21 18	0 18	6 26	1 11	4 46		23 43	0 14							12 47		6 39
S 30	21 s41	27n56	4n38	22 s26	0s51	24 s49		21 s27	0s19	6s30	1n11	4 s 4 6	2 s25	23n43	0n14	1n52	1n21	2s11				12n50		6n39

 $\label{eq:Julian Day Number = 2310500.5, Delta T = 72.58 sec} \\ Ecliptic obliquity = 23°29'30, Nutation = -0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°21'02, Lahiri = 18°28'03Greg. Calendar \\ \\$ 

DECEMBER 1613 GC 00:00 UT

Day	Sid.t	0	D	ğ	0	ď	21	Ł	)∤(	并	В	n	Ω	•	K	Day
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S 1	4 39 35	9.7 1'05	19937	8 <b>₹</b> 56	13중 7	5 <b>₹</b> 31	19 <b>₾</b> 32	23 <b>∺</b> 37	29°R37	28 Mp 26	5°R13	3°R45	2819	3 <b>8</b> 41	25 <b>~</b> 342	S 1
M 2	4 43 31	10° 2'02	2 <b>\Omega</b> 25	10°30	14°20	6°15	19°43	23°38	29∏34	28°27	5812	3 <b>8</b> 40	2°16	3°47	25°45	M 2
T 3	4 47 28	11° 3'00	15°27	12° 5	15°34	6°59	19°53	23°38	29°32	28°28	5°11	3°35	2°13	3°54	25°49	T 3
W 4	4 51 24	12° 3'59	28°45	13°39	16°47	7°42	20° 3	23°39	29°30	28°29	5°10	3°33	2°10	4° 1	25°54	W 4
T 5	4 55 21	13° 5'00	12 mp 18	15°13	18° 1	8°26	20°13	23°40	29°27	28°30	5°10	3°D32	2° 7	4° 7	25°58	T 5
F 6	4 59 17	14° 6'01	26°10	16°48	19°14	9°10	20°24	23°41	29°25	28°31	5° 9	3°32	2° 3	4°14	26° 2	F 6
S 7	5 3 14	15° 7'03	10 <b>≏</b> 19	18°22	20°27	9°54	20°34	23°42	29°22	28°32	5° 8	3°34	2° 0	4°21	26° 6	S 7
S 8	5 7 10	16° 8'07	24°45	19°57	21°41	10°38	20°43	23°43	29°20	28°32	5° 7	3°35	1°57	4°27	26°10	S 8
M 9	5 11 7	17° 9'12	9 <b>M</b> 26	21°32	22°54	11°22	20°53	23°45	29°17	28°33	5° 6	3°R35	1°54	4°34	26°14	M 9
T 10	5 15 4	18°10'17	24°16	23° 6	24° 7	12° 6	21° 3	23°46	29°15	28°34	5° 5	3°33	1°51	4°41	26°19	T 10
W11	5 19 0	19°11'24	9 <b>×</b> 7 9	24°41	25°20	12°51	21°12	23°47	29°12	28°35	5° 5	3°29	1°48	4°47	26°23	W11
T 12	5 22 57	20°12'31	23°56	26°16	26°34	13°35	21°22	23°49	29°10	28°35	5° 4	3°23	1°44	4°54	26°27	T 12
F 13	5 26 53	21°13'39	8 <b>국</b> 29	27°52	27°47	14°19	21°31	23°51	29° 7	28°36	5° 3	3°15	1°41	5° 1	26°32	F 13
S 14	5 30 50	22°14'47	22°42	29°27	29° 0	15° 3	21°40	23°53	29° 5	28°36	5° 2	3° 7	1°38	5° 7	26°36	S 14
S 15	5 34 46	23°15'56	6≈29	1る 2	0≈13	15°48	21°50	23°54	29° 2	28°37	5° 2	2°59	1°35	5°14	26°41	S 15
M16	5 38 43	24°17'05	19°49	2°38	1°26	16°32	21°59	23°57	28°59	28°38	5° 1	2°52	1°32	5°21	26°45	M16
T 17	5 42 39	25°18'14	2 <b>) (</b> 44	4°14	2°39	17°17	22° 7	23°59	28°57	28°38	5° 0	2°47	1°28	5°27	26°50	T 17
W18	5 46 36	26°19'23	15°15	5°50	3°51	18° 1	22°16	24° 1	28°54	28°38	5° 0	2°44	1°25	5°34	26°54	W18
T 19	5 50 33	27°20'32	27°27	7°25	5° 4	18°46	22°25	24° 3	28°52	28°39	4°59	2°D44	1°22	5°40	26°59	T 19
F 20	5 54 29	28°21'41	9 <b>Υ</b> 25	9° 1	6°17	19°30	22°33	24° 6	28°49	28°39	4°58	2°44	1°19	5°47	27° 3	F 20
S 21	5 58 26	29°22'50	21°14	10°37	7°30	20°15	22°42	24° 8	28°46	28°40	4°58	2°45	1°16	5°54	27° 8	S 21
S 22	6 2 22	0 <b>ට</b> 23'59	3 <b>8</b> 1	12°13	8°42	20°59	22°50	24°11	28°44	28°40	4°57	2°R46	1°13	6° 0	27°13	S 22
M23	6 6 19	1°25'09	14°49	13°49	9°55	21°44	22°58	24°14	28°41	28°40	4°57	2°45	1° 9	6° 7	27°17	M23
T 24	6 10 15	2°26'18	26°44	15°24	11° 7	22°29	23° 6	24°16	28°39	28°40	4°56	2°42	1° 6	6°14	27°22	T 24
W25	6 14 12	3°27'27	8∏48	16°59	12°20	23°14	23°14	24°19	28°36	28°41	4°56	2°36	1° 3	6°20	27°27	W25
T 26	6 18 8	4°28'37	21° 4	18°34	13°32	23°59	23°22	24°22	28°34	28°41	4°55	2°28	1° 0	6°27	27°32	T 26
F 27	6 22 5	5°29'46	3934	20° 9	14°44	24°43	23°30	24°26	28°31	28°41	4°55	2°17	0°57	6°34	27°36	F 27
S 28	6 26 2	6°30'56	16°17	21°42	15°57	25°28	23°37	24°29	28°28	28°41	4°54	2° 5	0°54	6°40	27°41	S 28
S 29	6 29 58	7°32'05	29°14	23°15	17° 9	26°13	23°45	24°32	28°26	28°41	4°54	1°53	0°50	6°47	27°46	S 29
M30	6 33 55	8°33'15	$12\Omega 23$	24°46	18°21	26°58	23°52	24°36	28°23	28°41	4°53	1°42	0°47	6°54	27°51	M30
T 31	6 37 51	9 <b>ප</b> 34'24	25 <b>Ω</b> 43	26 <b>궁</b> 17	19 <b>≈</b> 33	27 <b>×7</b> 43	23 <b>₽</b> 59	24 <b>)</b> 39	28 <b>Ⅲ</b> 21	28°R41	4 <b>8</b> 53	1 <b>8</b> 33	0844	7 <b>8</b> 0	27 <b>ප්</b> 56	T 31

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T 24 W25 T 26 F 27	23 25 23 23	17 20 1 4 21 29 2 5 24 47 3 0 26 59 3 48 27 52 4 26	24 56 2 24 45 2 24 32 2 24 18 2	10 19 19 1 55 2 9 18 58 1 54 2 7 18 36 1 53 2 4 18 14 1 52 2	3 46 0 32 3 50 0 33 3 53 0 33 3 55 0 34 3 58 0 35	7 47 1 15 7 50 1 15 7 53 1 15 7 56 1 16 7 58 1 16	4 26 2 20 4 25 2 20 4 24 2 20 4 22 2 19 4 21 2 19	23 43 0 14 23 43 0 14	1 47 1 22 1 47 1 22 1 47 1 22 1 47 1 22		12 27 1 12 26 1 12 24 1 12 21 1 12 18 1	11 54 14 11 53 14 11 52 14 11 51 14 11 50 14	1 14 20 4 14 19 7 14 18 10 14 17 13 14 17	6 33 6 32 6 32 6 32 6 32 6 32
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Julian Day Number = 2310530.5, Delta T = 72.49 sec Ecliptic obliquity =  $23^{\circ}29'29$ , Nutation = -  $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}21'07$ , Lahiri =  $18^{\circ}28'07$ Greg. Calendar