

# Astrodienst Ephemeris Tables for the year 1639

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 1639 GC 00:00 UT

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Day	Sid.t	0	)	ğ	φ	♂	4	ħ	)∤(	并	В	S.	v	Ç	ķ	Day
S 1	6 41 36	10 <b>ට</b> 31'52	3 <b>√</b> 1	12 <b>5</b> 24	28 <b>×</b> 744	15 <b>∺</b> 17	27 <b>M</b> 8	6≈ 0	27 <b>≗</b> 41	22 <b>M</b> 25	28°R46	27 <b>×</b> 755	27 <b>×</b> 10	4 <b>)</b> 19	14°R 5	S 1
S 2	6 45 33	11°33'04	15°55	14° 2	29°59	16° 1	27°19	6° 7	27°43	22°26	28 <b>8</b> 45	27°56	27° 7	4°25	148 3	S 2
M 3	6 49 29	12°34'15	28°37	15°41	1 <b>る</b> 15	16°45	27°30	6°14	27°44	22°28	28°44	27°R56	27° 3	4°32	14° 2	M 3
T 4	6 53 26	13°35'26	11궁 7	17°20	2°30	17°29	27°41	6°21	27°46	22°29	28°44	27°56	27° 0	4°39	14° 1	T 4
W 5	6 57 23	14°36'37	23°26	18°59	3°46	18°13	27°52	6°27	27°47	22°31	28°43	27°55	26°57	4°45	13°59	W 5
T 6	7 1 19	15°37'48	5≈36	20°39	5° 1	18°56	28° 3	6°34	27°49	22°32	28°42	27°52	26°54	4°52	13°58	T 6
F 7	7 5 16	16°38'58	17°37	22°19	6°17	19°40	28°14	6°41	27°50	22°34	28°41	27°49	26°51	4°59	13°57	F 7
S 8	7 9 12	17°40'08	29°32	24° 0	7°32	20°24	28°25	6°48	27°52	22°35	28°41	27°46	26°48	5° 6	13°56	S 8
S 9	7 13 9	18°41'17	11 <b>) (</b> 24	25°41	8°47	21° 8	28°36	6°55	27°53	22°37	28°40	27°42	26°44	5°12	13°55	S 9
M10	7 17 5	19°42'25	23°15	27°22	10° 3	21°51	28°46	7° 2	27°54	22°38	28°39	27°40	26°41	5°19	13°55	M10
T 11	7 21 2	20°43'32	5 <b>Υ</b> 9	29° 3	11°18	22°35	28°57	7° 9	27°55	22°40	28°39	27°37	26°38	5°26	13°54	T 11
W12	7 24 58	21°44'39	17°11	0≈45	12°34	23°19	29° 7	7°16	27°57	22°41	28°38	27°D36	26°35	5°32	13°53	W12
T 13	7 28 55	22°45'45	29°26	2°27	13°49	24° 3	29°18	7°23	27°58	22°43	28°37	27°36	26°32	5°39	13°52	T 13
F 14	7 32 52	23°46'50	11858	4° 9	15° 4	24°46	29°28	7°30	27°59	22°44	28°37	27°38	26°28	5°46	13°52	F 14
S 15	7 36 48	24°47'54	24°51	5°51	16°20	25°30	29°38	7°37	28° 0	22°45	28°36	27°39	26°25	5°53	13°51	S 15
S 16	7 40 45	25°48'58	8П 9	7°32	17°35	26°13	29°48	7°44	28° 1	22°46	28°36	27°41	26°22	5°59	13°51	S 16
M17	7 44 41	26°50'00	21°54	9°13	18°50	26°57	29°58	7°51	28° 2	22°48	28°35	27°R42	26°19	6° 6	13°50	M17
T 18	7 48 38	27°51'02	695 6	10°54	20° 6	27°41	0 <b>,</b> ₹0	7°58	28° 2	22°49	28°35	27°42	26°16	6°13	13°50	T 18
W19	7 52 34	28°52'02	20°41	12°34	21°21	28°24	0°18	8° 5	28° 3	22°50	28°34	27°40	26°13	6°19	13°50	W19
T 20	7 56 31	29°53'02	5 <b>Ω</b> 35	14°13	22°36	29° 8	0°27	8°12	28° 4	22°51	28°34	27°37	26° 9	6°26	13°50	T 20
F 21	8 0 27	0≈54'01	20°37	15°51	23°52	29°51	0°37	8°19	28° 5	22°52	28°33	27°32	26° 6	6°33	13°50	F 21
S 22	8 4 24	1°54'59	5 <b>m</b> /41	17°28	25° 7	0 <b>Ƴ</b> 35	0°46	8°27	28° 5	22°53	28°33	27°27	26° 3	6°40	13°D49	S 22
S 23	8 8 21	2°55'56	20°35	19° 2	26°22	1°18	0°56	8°34	28° 6	22°54	28°32	27°22	26° 0	6°46	13°49	S 23
M24	8 12 17	3°56'52	5 <b>₽</b> 13	20°33	27°38	2° 2	1° 5	8°41	28° 6	22°55	28°32	27°18	25°57	6°53	13°50	M24
T 25	8 16 14	4°57'48	19°30	22° 2	28°53	2°45	1°14	8°48	28° 7	22°56	28°32	27°15	25°54	7° 0	13°50	T 25
W26	8 20 10	5°58'43	3M23	23°27	0≈ 8	3°28	1°23	8°55	28° 7	22°57	28°31	27°D14	25°50	7° 6	13°50	W26
T 27	8 24 7	6°59'38	16°53	24°48	1°24	4°12	1°32	9° 2	28° 7	22°58	28°31	27°14	25°47	7°13	13°50	T 27
F 28	8 28 3	8° 0'31	0 <b>∡</b> 7 3	26° 4	2°39	4°55	1°41	9° 9	28° 8	22°59	28°31	27°15	25°44	7°20	13°51	F 28
S 29	8 32 0	9° 1'24	12°54	27°15	3°54	5°38	1°49	9°17	28° 8	23° 0	28°30	27°17	25°41	7°27	13°51	S 29
S 30	8 35 56	10° 2'16	25°29	28°19	5° 9	6°22	1°58	9°24	28° 8	23° 1	28°30	27°R18	25°38	7°33	13°51	S 30
M31	8 39 53	11≈ 3'07	7 <b>궁</b> 53	29≈16	6≈25	7 <b>Υ</b> 5	2 <b>,</b> 7 6	9≈31	28☎ 8	23M 2	28 <b>8</b> 30	27 <b>×</b> 17	25 <b>₹</b> 34	7 <b>)</b> 40	13 <b>8</b> 52	M31

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S 2	22 59	23 50 1	6 24 43	1 59 2	3 30 0s 1	6 8	0 39	18 46	0 51	19 28	0 43	10 9	0 34	16 45	1 43	7 31	12 42	23 28	23 27	5 29	13 39	2 33
M 3	22 53	23 25 On	4 24 34		3 33 0 4	5 50	0 38	18 48	0 52	19 26	0 43	10 10	0 34	16 46	1 43	7 31	12 41	23 28	23 27	5 26	13 39	2 33
T 4	-	-	12 24 24	-	3 34 0 6	5 32		18 51		19 25		10 11		16 46	1 43				23 27		13 39	2 33
W 5 T 6		-	16 24 11		3 35 0 9	5 13		18 53		19 23		10 11		16 46	1 43				23 27	-	13 38	2 33
T 6 F 7	_		13 23 58 1 23 42		3 34 0 11 3 34 0 13	4 55 4 37		18 56 18 58		19 21 19 20		10 12 10 12		16 47 16 47	1 43 1 43				23 27 23 27		13 38 13 38	2 32 2 32
S 8	22 19		37 23 25		3 32 0 16			19 0		19 18		10 12		16 47	1 43				23 27		13 38	2 32
S 9	22 11	2 39 5	2 23 7	-	3 30 0 18	-		19 3		19 16		10 13		16 48					23 27		13 37	2 32
1	22 2		14 22 47		3 27 0 21	3 42		19 5		19 15		10 13		16 48	1 43				23 27		13 37	2 32
	21 53		12 22 25 56 22 1		3 23 0 23 3 19 0 25			19 7 19 9		19 13 19 11		10 14 10 14		16 48 16 49	1 44 1 44				23 27 23 26	-	13 37 13 37	2 32 2 32
			27 21 36					19 12		19 9		10 15		16 49	1 44				23 26		13 37	2 32
F 14	21 23		45 21 10		3 8 0 30	2 29	0 26	19 14	0 52	19 8		10 15		16 49	1 44	7 32	12 39	23 28	23 26	4 56	13 37	2 32
S 15	21 13	21 46 2	51 20 41	1 54 2	3 1 0 32	2 11	0 25	19 16	0 52	19 6	0 43	10 15	0 34	16 49	1 44	7 32	12 38	23 28	23 26	4 53	13 37	2 32
S 16	21 1	23 26 1	45 20 12	1 50 2	2 54 0 34	1 52	0 24	19 18	0 52	19 4	0 43	10 16	0 34	16 50	1 44	7 33	12 38	23 28	23 26	4 51	13 37	2 32
M17	20 50		32 19 41	-		-		19 20		19 2		10 16		16 50					23 26	-	13 36	2 32
_			346 19 8 2 18 34			-		19 22		19 1		10 16 10 16		16 50					23 26		13 36	2 32 2 32
T 20			12 17 59			0 57 0 39	-	19 24 19 26		18 59 18 57		10 16		16 50 16 51	1 44 1 44				23 26 23 26		13 36 13 36	2 32
F 21			9 17 23					19 28	0 52			10 17		16 51	1 44				23 26	-	13 36	2 32
S 22	19 46	4 58 4	49 16 46	1 11 2	1 55 0 47	0 3	0 18	19 30	0 52	18 53	0 44	10 17	0 34	16 51	1 44	7 34	12 37	23 28	23 26	4 34	13 37	2 31
S 23	19 32	1 s 0 5	9 16 8			0n16	0 17	19 32		18 52	0 44	10 17	0 34	16 51	1 44	7 34	12 36	23 28	23 26	4 32	13 37	2 31
M24	19 18		8 15 29			0 34		19 34		18 50		10 17		16 52	1 44				23 25	-	13 37	2 31
T 25	19 4	-	48 14 51	0 41 2				19 35		18 48	-	10 17		16 52	1 44				23 25	-	13 37	2 31
W26 T 27	18 49		12 14 12 22 13 33			-	-	19 37 19 39	0 53 0 53		-	10 18 10 18		16 52 16 52	1 44 1 44				23 25 23 25	-	13 37 13 37	2 31 2 31
F 28			23 12 55			-		19 41	0 53		-	10 18		16 52	1 44				23 25		13 37	2 31
S 29		-	17 12 17	-		-	-	19 42		18 41	-	10 18		16 52	1 44				23 25	-	13 37	2 31
S 30			10 11 41		-			19 44		18 39		10 18		16 53	-				23 25		13 38	2 31
M31	17 s29	22 s18 On	11s 7	0n41 1	9 s 4 4 1 s 3	2n40	0s 9	19s45	0n53	18s37	0 s44	10 s18	0n34	16s53	1n45	7n35	12 s34	23 s27	23 s25	4s10	13n38	2 s31

Julian Day Number = 2319692.5, Delta T = 51.11 sec Ecliptic obliquity = 23°29'09, Nutation =  $0^{\circ}00'18$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}42'06$ , Lahiri =  $18^{\circ}49'06$ Greg. Calendar

#### FEBRUARY 1639 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	并	В	r	v	Ç	Ŗ	Day
T 1	8 43 50	12≈ 3'57	20ට 7	0 <b>)</b> 5	7≈40	7 <b>Υ</b> 48	2 <b>₹</b> 14	9≈38	28°R 8	23M 3	28°R30	27°R15	25 <b>×</b> 31	7 <b>){</b> 47	13 <b>8</b> 53	T 1
W 2	8 47 46	13° 4'45	2≈13	0°45	8°55	8°31	2°22	9°45	28 <b>♀</b> 8	23° 3	28829	27 <b>×</b> 10	25°28	7°53	13°53	W 2
T 3	8 51 43	14° 5'33	14°13	1°16	10°11	9°15	2°30	9°52	28° 8	23° 4	28°29	27° 2	25°25	8° 0	13°54	T 3
F 4	8 55 39	15° 6'19	26° 9	1°37	11°26	9°58	2°38	10° 0	28° 8	23° 5	28°29	26°53	25°22	8° 7	13°55	F 4
S 5	8 59 36	16° 7'04	8 <b>∺</b> 2	1°R47	12°41	10°41	2°46	10° 7	28° 8	23° 5	28°29	26°43	25°19	8°14	13°56	S 5
S 6	9 3 32	17° 7'47	19°53	1°47	13°56	11°24	2°53	10°14	28° 7	23° 6	28°29	26°33	25°15	8°20	13°57	S 6
M 7	9 7 29	18° 8'28	1 <b>Y</b> 45	1°36	15°11	12° 7	3° 1	10°21	28° 7	23° 6	28°29	26°24	25°12	8°27	13°58	M 7
T 8	9 11 25	19° 9'08	13°40	1°15	16°27	12°50	3° 8	10°28	28° 7	23° 7	28°28	26°16	25° 9	8°34	13°59	T 8
W 9	9 15 22	20° 9'47	25°41	0°43	17°42	13°33	3°15	10°35	28° 6	23° 7	28°28	26°10	25° 6	8°40	14° 0	W 9
T 10	9 19 19	21°10'23	7 <b>8</b> 53	0° 3	18°57	14°16	3°22	10°42	28° 6	23° 8	28°28	26° 7	25° 3	8°47	14° 1	T 10
F 11	9 23 15	22°10'58	20°19	29≈14	20°12	14°59	3°29	10°49	28° 5	23° 8	28°D28	26°D 6	25° 0	8°54	14° 3	F 11
S 12	9 27 12	23°11'32	3 <b>II</b> 5	28°18	21°27	15°42	3°36	10°57	28° 5	23° 9	28°28	26° 6	24°56	9° 1	14° 4	S 12
S 13	9 31 8	24°12'03	16°15	27°17	22°42	16°25	3°43	11° 4	28° 4	23° 9	28°28	26° 7	24°53	9° 7	14° 5	S 13
M14	9 35 5	25°12'33	29°52	26°12	23°58	17° 8	3°49	11°11	28° 4	23°10	28°28	26°R 8	24°50	9°14	14° 7	M14
T 15	9 39 1	26°13'00	139558	25° 5	25°13	17°51	3°55	11°18	28° 3	23°10	28°29	26° 6	24°47	9°21	14° 8	T 15
W16	9 42 58	27°13'26	28°33	23°57	26°28	18°33	4° 1	11°25	28° 2	23°10	28°29	26° 2	24°44	9°27	14°10	W16
T 17	9 46 54	28°13'50	13 <b>Ω</b> 32	22°52	27°43	19°16	4° 7	11°32	28° 1	23°10	28°29	25°56	24°40	9°34	14°12	T 17
F 18	9 50 51	29°14'12	28°47	21°49	28°58	19°59	4°13	11°39	28° 0	23°10	28°29	25°48	24°37	9°41	14°13	F 18
S 19	9 54 48	0 <b>) (</b> 14′33	14 <b>m</b> ) 8	20°50	0 <b>米</b> 13	20°41	4°19	11°46	27°59	23°11	28°29	25°38	24°34	9°48	14°15	S 19
S 20	9 58 44	1°14'52	29°22	19°57	1°28	21°24	4°24	11°52	27°58	23°11	28°29	25°28	24°31	9°54	14°17	S 20
M21	10 241	2°15'09	14 <b>≏</b> 20	19°10	2°43	22° 7	4°30	11°59	27°57	23°11	28°29	25°19	24°28	10° 1	14°19	M21
T 22	10 6 37	3°15'25	28°54	18°29	3°58	22°49	4°35	12° 6	27°56	23°11	28°30	25°13	24°25	10° 8	14°21	T 22
W23	10 10 34	4°15'39	12 <b>M</b> 59	17°55	5°13	23°32	4°40	12°13	27°55	23°R11	28°30	25° 8	24°21	10°15	14°23	W23
T 24	10 14 30	5°15'52	26°36	17°29	6°28	24°14	4°45	12°20	27°54	23°11	28°30	25° 6	24°18	10°21	14°25	T 24
F 25	10 18 27	6°16'03	9 <b>∡</b> 745	17° 9	7°43	24°57	4°49	12°27	27°53	23°11	28°30	25°D 6	24°15	10°28	14°27	F 25
S 26	10 22 23	7°16'13	22°32	16°57	8°58	25°39	4°54	12°33	27°52	23°11	28°31	25°R 6	24°12	10°35	14°29	S 26
S 27	10 26 20	8°16'21	5 <b>る</b> 0	16°D51	10°13	26°22	4°58	12°40	27°50	23°11	28°31	25° 6	24° 9	10°41	14°31	S 27
M28	10 30 17	9 <b>)</b> 16'28	17 <b>る</b> 14	16≈52	11 <b>米</b> 28	27 <b>Y</b> 4	5 <b>₹</b> 2	12≈47	27 <b>≏</b> 49	23 <b>M</b> .11	28 <b>8</b> 31	25 <b>∡</b> 4	24 <b>×7</b> 5	10 <b>) (</b> 48	14834	M28

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T 1	17 s13	20 s 0 2n 0	10s35 0n5	57 19s26 1s 5	2n58 0s 8	19s47 0n53	18 s 35 0 s 44	10 s18 0n34	16s53 1n45	7n36 12s34	23 s27 23 s25	4s 7	13n38 2s31
W 2		16 50 2 57			3 16 0 7				16 53 1 45		23 27 23 24		13 38 2 31
T 3					3 34 0 7				16 53 1 45		23 27 23 24		13 39 2 31
F 4	16 20	8 41 4 24			3 52 0 6				16 53 1 45		23 27 23 24		13 39 2 31
S 5	16 2	4 5 4 50	8 57 2	3 18 10 1 11	4 10 0 5	19 53 0 53	18 28 0 45	10 18 0 34	16 53 1 45	7 37 12 33	23 27 23 24	3 56	13 39 2 30
S 6	15 44	0n39 5 4	8 41 2 1	19 17 49 1 12	4 28 0 4	19 54 0 53	18 26 0 45	10 17 0 34	16 53 1 45	7 37 12 32	23 26 23 24	3 53	13 40 2 30
M 7	15 25	5 21 5 5	8 31 2 3	35 17 29 1 13	4 45 0 3	19 56 0 53	18 24 0 45	10 17 0 34	16 54 1 45	7 37 12 32	23 26 23 24	3 51	13 40 2 30
T 8	15 7	9 53 4 52	2 8 25 2 5	50 17 7 1 14	5 3 0 2	19 57 0 53	18 22 0 45	10 17 0 35	16 54 1 45	7 37 12 32	23 26 23 24	3 48	13 40 2 30
W 9	14 47	14 5 4 27	8 23 3	3 16 45 1 16	5 20 0 1	19 58 0 54	18 20 0 45	10 17 0 35	16 54 1 45	7 38 12 31	23 26 23 24	3 45	13 41 2 30
T 10	14 28	17 46 3 49	8 26 3 1	15 16 23 1 17	5 38 0 0	20 0 0 54	18 18 0 45	10 17 0 35	16 54 1 45	7 38 12 31	23 26 23 24	3 43	13 41 2 30
F 11	14 9	20 45 3 (			5 55 On 0	20 1 0 54	18 16 0 45	10 17 0 35	16 54 1 45		23 26 23 23	3 40	13 42 2 30
S 12	13 49	22 47 2 (	8 45 3 3	33 15 37 1 19	6 13 0 1	20 2 0 54	18 15 0 45	10 16 0 35	16 54 1 45	7 39 12 30	23 26 23 23	3 37	13 42 2 30
S 13	13 29	23 39 0 53	9 0 3 3	39 15 14 1 20	6 30 0 2	20 3 0 54	18 13 0 45	10 16 0 35	16 54 1 45	7 39 12 30	23 26 23 23	3 34	13 43 2 30
M14	13 9	23 9 0s20	9 19 3 4	43 14 50 1 21	6 47 0 3	20 4 0 54	18 11 0 45	10 16 0 35	16 54 1 45	7 39 12 30	23 26 23 23	3 32	13 43 2 30
T 15	12 48	21 12 1 34	9 39 3 4	45 14 25 1 21	7 4 0 4	20 5 0 54	18 9 0 45	10 16 0 35	16 54 1 45	7 40 12 30	23 26 23 23	3 29	13 44 2 30
	12 28					20 6 0 54	18 7 0 45	10 15 0 35	16 54 1 45		23 26 23 23		13 44 2 30
T 17	12 7	13 12 3 45	5 10 26 3 4			20 7 0 54		10 15 0 35	16 54 1 46		23 25 23 23		13 45 2 30
-	11 46		0 10 51 3 3			20 8 0 54			16 54 1 46		23 25 23 23		13 45 2 30
S 19	11 25	1 41 4 57	7 11 16 3 2	29 12 44 1 24	8 12 0 7	20 9 0 54	18 2 0 46	10 14 0 35	16 54 1 46	7 41 12 28	23 25 23 22	3 18	13 46 2 29
S 20	11 3	4s22 5 2	2 11 41 3 2	20 12 17 1 24	8 29 0 8	20 10 0 54	18 0 0 46	10 14 0 35	16 54 1 46	7 41 12 28	23 24 23 22	3 15	13 47 2 29
M21	10 42	10 4 4 47	7 12 5 3 1	10 11 51 1 25	8 46 0 9	20 11 0 55	17 58 0 46	10 14 0 35	16 54 1 46	7 41 12 28	23 24 23 22	3 13	13 47 2 29
T 22	10 20	15 2 4 13	3 12 28 2 5	59 11 24 1 25	9 2 0 9			10 13 0 35	16 54 1 46		23 24 23 22	3 10	13 48 2 29
W23	,		1 12 50 2 4						16 54 1 46		23 24 23 22		13 48 2 29
T 24	9 36		5 13 10 2 3						16 54 1 46		23 24 23 22	-	13 49 2 29
F 25		23 17 1 21							16 54 1 46		23 24 23 22	-	13 50 2 29
S 26	8 51	23 30 0 14	1 13 45 2	8 9 33 1 26	10 8 0 13	20 15 0 55	17 49 0 46	10 11 0 35	16 54 1 46	7 43 12 26	23 24 23 22	2 59	13 50 2 29
S 27	8 29	22 31 0n52	2 14 0 1 5	54 9 5 1 26	10 24 0 13	20 16 0 55	17 47 0 46	10 11 0 35	16 54 1 46	7 44 12 26	23 24 23 21	2 56	13 51 2 29
M28	8s 6	20 s29 1n54	14s13 1n4	40 8 s 36 1 s 26	10n40 0n14	20s17 0n55	17 s45 0 s47	10 s10 0n35	16s53 1n46	7n44 12s26	23 s24 23 s21	2 s 5 4	13n52 2s29

Julian Day Number = 2319723.5, Delta T = 51.04 sec Ecliptic obliquity =  $23^{\circ}29'10$ , Nutation =  $0^{\circ}00'19$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}42'10$ , Lahiri =  $18^{\circ}49'11$ Greg. Calendar

MARCH 1639 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)મું(	并	В	v	v	Ç	Ŗ	Day
T 1	10 34 13	10 <b>)</b> 16'33	29 <b>궁</b> 18	16≈59	12 <b>)</b> 43	27 <b>Y</b> 46	5 <b>₹</b> 6	12≈53	27°R48	23°R10	28 <b>8</b> 32	24°R59	24 <b>×7</b> 2	10 <b>)</b> 55	14836	T 1
W 2	10 38 10	11°16'36	11≈15	17°12	13°57	28°29	5°10	13° 0	27 <b>≏</b> 46	23 <b>M</b> 10	28°32	24 <b>×</b> 152	23°59	11° 2	14°38	W 2
T 3	10 42 6	12°16'37	23° 8	17°31	15°12	29°11	5°14	13° 7	27°45	23°10	28°33	24°41	23°56	11° 8	14°41	T 3
F 4	10 46 3	13°16'37	5 <b>₩</b> 0	17°54	16°27	29°53	5°17	13°13	27°43	23°10	28°33	24°28	23°53	11°15	14°43	F 4
S 5	10 49 59	14°16'34	16°52	18°23	17°42	0 <b>8</b> 35	5°21	13°20	27°41	23° 9	28°34	24°14	23°50	11°22	14°46	S 5
S 6	10 53 56	15°16'30	28°45	18°57	18°57	1°17	5°24	13°26	27°40	23° 9	28°34	23°59	23°46	11°28	14°49	S 6
M 7	10 57 52	16°16'24	10 <b>Υ</b> 40	19°34	20°12	1°59	5°27	13°33	27°38	23° 9	28°35	23°45	23°43	11°35	14°51	M 7
T 8	11 1 49	17°16'15	22°40	20°16	21°26	2°42	5°30	13°39	27°36	23° 8	28°35	23°33	23°40	11°42	14°54	T 8
W 9	11 5 45	18°16'05	4846	21° 1	22°41	3°24	5°32	13°45	27°35	23° 8	28°36	23°24	23°37	11°49	14°57	W 9
T 10	11 9 42	19°15'52	17° 0	21°50	23°56	4° 6	5°35	13°52	27°33	23° 7	28°36	23°18	23°34	11°55	15° 0	T 10
F 11	11 13 39	20°15'37	29°27	22°42	25°11	4°48	5°37	13°58	27°31	23° 7	28°37	23°15	23°31	12° 2	15° 3	F 11
S 12	11 17 35	21°15'20	12 <b>Ⅱ</b> 11	23°37	26°25	5°30	5°39	14° 4	27°29	23° 6	28°37	23°14	23°27	12° 9	15° 5	S 12
S 13	11 21 32	22°15'01	25°14	24°35	27°40	6°11	5°41	14°10	27°27	23° 6	28°38	23°14	23°24	12°15	15° 8	S 13
M14	11 25 28	23°14'39	89542	25°36	28°55	6°53	5°42	14°16	27°25	23° 5	28°39	23°14	23°21	12°22	15°11	M14
T 15	11 29 25	24°14'15	22°36	26°40	0Υ 9	7°35	5°44	14°23	27°23	23° 5	28°39	23°12	23°18	12°29	15°15	T 15
W16	11 33 21	25°13'49	6 <b>Ω</b> 59	27°45	1°24	8°17	5°45	14°29	27°21	23° 4	28°40	23° 8	23°15	12°36	15°18	W16
T 17	11 37 18	26°13'20	21°47	28°54	2°39	8°59	5°46	14°35	27°19	23° 3	28°41	23° 1	23°11	12°42	15°21	T 17
F 18	11 41 14	27°12'49	6 <b>m</b> 55	0 <b>∺</b> 4	3°53	9°40	5°47	14°40	27°17	23° 3	28°41	22°51	23° 8	12°49	15°24	F 18
S 19	11 45 11	28°12'16	22°13	1°16	5° 8	10°22	5°48	14°46	27°15	23° 2	28°42	22°40	23° 5	12°56	15°27	S 19
S 20	11 49 8	29°11'41	7 <b>≙</b> 31	2°31	6°22	11° 4	5°49	14°52	27°13	23° 1	28°43	22°29	23° 2	13° 3	15°31	S 20
M21	11 53 4	0 <b>Υ</b> 11'04	22°37	3°47	7°37	11°45	5°49	14°58	27°11	23° 0	28°44	22°19	22°59	13° 9	15°34	M21
T 22	11 57 1	1°10'25	7 <b>M</b> ₊21	5° 5	8°51	12°27	5°49	15° 4	27° 9	22°59	28°44	22°11	22°56	13°16	15°37	T 22
W23	12 0 57	2° 9'44	21°37	6°25	10° 6	13° 8	5°R49	15° 9	27° 7	22°59	28°45	22° 5	22°52	13°23	15°41	W23
T 24	12 4 54	3° 9'01	5 <b>₹</b> 23	7°47	11°20	13°50	5°49	15°15	27° 4	22°58	28°46	22° 2	22°49	13°29	15°44	T 24
F 25	12 8 50	4° 8'16	18°40	9°11	12°35	14°31	5°49	15°20	27° 2	22°57	28°47	22°D 2	22°46	13°36	15°48	F 25
S 26	12 12 47	5° 7'30	1 <b>ਰ</b> 31	10°36	13°49	15°13	5°48	15°26	27° 0	22°56	28°48	22°R 2	22°43	13°43	15°51	S 26
S 27	12 16 43	6° 6'42	14° 0	12° 2	15° 3	15°54	5°47	15°31	26°57	22°55	28°49	22° 2	22°40	13°50	15°55	S 27
M28	12 20 40	7° 5'52	26°13	13°31	16°18	16°35	5°46	15°37	26°55	22°54	28°49	22° 0	22°37	13°56	15°58	M28
T 29	12 24 37	8° 5'01	8≈14	15° 1	17°32	17°17	5°45	15°42	26°53	22°53	28°50	21°56	22°33	14° 3	16° 2	T 29
W30	12 28 33	9° 4'07	20° 8	16°32	18°46	17°58	5°44	15°47	26°50	22°52	28°51	21°50	22°30	14°10	16° 6	W30
T 31	12 32 30	10 <b>°</b> 3'12	1 <b>米</b> 59	18 <b>¥</b> 5	20 <b>Υ</b> 1	18 <b>8</b> 39	5 <b>∡</b> 743	15≈52	26 <b>≏</b> 48	22ML51	28 <b>8</b> 52	21 <b>×</b> <sup>7</sup> 40	22 <b>×</b> 127	14 <b>) (</b> 16	16 <b>8</b> 9	T 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 W 2	7 s44 7 21	17 s34 2n50 13 56 3 38		8s 8 1s26 10n56 7 39 1 26 11 12	0 15 2	20 18 0 55	17 42 0 47		16s53 1n46 16 53 1 46	7 45 12 25	23 s23 23 s21 23 23 23 21	2 48	13n53 2 s29 13 53 2 29
T 3 F 4 S 5	6 58 6 35 6 12	9 48 4 16 5 18 4 43 0 38 4 57	14 45 0 47	7 9 1 26 11 27 6 40 1 25 11 43 6 11 1 25 11 59	0 17 2	20 19 0 55	17 38 0 47	10 8 0 35	16 53 1 46	7 45 12 25	23 23 23 21 23 22 23 21 23 22 23 21	2 43	13 54 2 29 13 55 2 29 13 56 2 29
S 6 M 7	5 49 5 26	8 38 4 47		5 41 1 25 12 14 5 11 1 24 12 29	0 18 2 0 19 2	20 20 0 56 20 20 0 56	17 34 0 47 17 33 0 47	10 6 0 35		7 46 12 24 7 46 12 24	23 21 23 20 23 20 23 20	2 37 2 35	13 57 2 29 13 57 2 29
T 8 W 9 T 10 F 11	5 2 4 39 4 15 3 52	16 41 3 46 19 48 2 59	14 44 0 14 14 38 0 24	4 41 1 24 12 44 4 11 1 23 12 59 3 41 1 23 13 14 3 10 1 22 13 29	0 20 2 0 21 2	20 21 0 56 20 21 0 56	17 31 0 47 17 29 0 48 17 28 0 48 17 26 0 48	10 5 0 35 10 5 0 35	16 52 1 47	7 47 12 23 7 48 12 23	23 20 23 20 23 19 23 20 23 19 23 20 23 19 23 20	-	
S 12 S 13			14 23 0 45	2 40 1 21 13 44 2 9 1 20 13 58	0 22 2	20 22 0 56	17 24 0 48	10 3 0 35		7 48 12 22	23 19 23 19 23 19 23 19 23 19 23 19		14 2 2 28
M14 T 15 W16 T 17 F 18 S 19	2 41 2 18 1 54 1 30 1 7 0 43	15 12 3 29 10 13 4 17 4 31 4 49	13 15 1 28	1 39 1 19 14 13 1 8 1 18 14 2 0 37 1 17 14 4 0 7 1 16 14 5 0n24 1 15 15 9 0 55 1 14 15 23	0 24 2 0 24 2 0 25 2 0 26 2 0 26 2	20 23 0 56 20 23 0 56 20 23 0 57 20 23 0 57 20 23 0 57	17 19 0 48 17 17 0 48 17 16 0 48	10 1 0 35 10 0 0 35 10 0 0 35 9 59 0 35	16 51 1 47 16 51 1 47 16 51 1 47	7 49 12 22 7 50 12 21 7 50 12 21 7 50 12 21 7 51 12 21	23 19 23 19 23 19 23 19 23 18 23 19 23 18 23 19 23 18 23 18 23 17 23 18	2 16 2 13 2 10 2 8 2 5 2 2	14 4 2 28
S 20 M21 T 22 W23 T 24 F 25 S 26	0 19 0n 4 0 28 0 52 1 15	7 26 4 50 12 50 4 20 17 20 3 33 20 40 2 33 22 40 1 27	12 17 1 48 11 54 1 54 11 31 1 59 11 5 2 4 10 39 2 8 10 11 2 12	1 25 1 13 15 3 1 56 1 11 15 3 2 27 1 10 16 4 2 57 1 9 16 1 3 28 1 7 16 30 3 58 1 6 16 43 4 29 1 4 16 50	0 28 2 0 28 2 0 29 2 0 29 2 0 30 2 0 31 2	20 23 0 57 20 23 0 57	17 11 0 49 17 9 0 49 17 8 0 49 17 6 0 49 17 5 0 49 17 3 0 49		16 50 1 47 16 50 1 47 16 50 1 47 16 49 1 47 16 49 1 47 16 49 1 47	7 52 12 20 7 52 12 20 7 52 12 20 7 53 12 19 7 53 12 19 7 54 12 19	23 16 23 18 23 16 23 18 23 15 23 18 23 15 23 18 23 15 23 17 23 15 23 17 23 15 23 17	2 0 1 57 1 54 1 51 1 49 1 46	
S 27 M28 T 29 W30 T 31	2 26 2 49 3 13 3 36 3n59	18 9 2 51 14 43 3 39 10 44 4 17	8 40 2 21 8 7 2 23 7 33 2 25	4 59 1 3 17 8 5 29 1 1 17 2 5 59 0 59 17 33 6 29 0 57 17 43 6n59 0s56 17n5	0 32 2 0 33 2 0 33 2	20 22 0 57 20 22 0 58 20 22 0 58		9 52 0 35 9 51 0 35 9 50 0 35 9 49 0 35 9 s48 0n35	16 48 1 48 16 48 1 48 16 47 1 48	7 55 12 18 7 55 12 18 7 56 12 18	23 15 23 17 23 15 23 17 23 14 23 17 23 14 23 16 23 s13 23 s16	1 38 1 35 1 33	14 16 2 28 14 17 2 28 14 18 2 28 14 19 2 28 14n20 2s28

Julian Day Number = 2319751.5, Delta T = 50.99 sec Ecliptic obliquity = 23°29'10, Nutation =  $0^\circ00'18$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^\circ42'14$ , Lahiri =  $18^\circ49'14$ Greg. Calendar

APRIL 1639 GC 00:00 UT

71 IV	L 103.	, uc													00.0	0 01
Day	Sid.t	0	D	ğ	Ş	ď	4	ħ	)મ(	卉	В	S.	Ω	Ç	ķ	Day
F 1	12 36 26	11 <b>°</b> 2'14	13 <b>米</b> 50	19 <b>)</b> (39	21Υ15	19820	5°R41	15≈58	26°R46	22°R50	28 <b>8</b> 53	21°R29	22 <b>×</b> 124	14 <b>) (</b> 23	16813	F 1
S 2	12 40 23	12° 1'15	25°43	21°15	22°29	20° 1	5 <b>₹</b> 39	16° 3	26 <b>≏</b> 43	22 <b>M</b> 49	28°54	21 <b>×</b> 16	22°21	14°30	16°17	S 2
S 3	12 44 19	13° 0'14	7 <b>Y</b> 40	22°53	23°43	20°43	5°37	16° 8	26°41	22°47	28°55	21° 3	22°17	14°37	16°21	S 3
M 4	12 48 16	13°59'10	19°42	24°32	24°58	21°24	5°35	16°12	26°38	22°46	28°56	20°51	22°14	14°43	16°24	M 4
T 5	12 52 12	14°58'05	1851	26°13	26°12	22° 5	5°32	16°17	26°36	22°45	28°57	20°40	22°11	14°50	16°28	T 5
W 6	12 56 9	15°56'58	14° 7	27°55	27°26	22°46	5°30	16°22	26°33	22°44	28°58	20°32	22° 8	14°57	16°32	W 6
T 7	13 0 5	16°55'48	26°33	29°38	28°40	23°27	5°27	16°27	26°31	22°43	28°59	20°27	22° 5	15° 3	16°36	T 7
F 8	13 4 2	17°54'37	9 <b>I</b> I 9	1 <b>Y</b> 23	29°54	24° 8	5°24	16°31	26°28	22°41	29° 0	20°24	22° 2	15°10	16°40	F 8
S 9	13 7 59	18°53'23	21°59	3°10	18 8	24°49	5°21	16°36	26°26	22°40	29° 1	20°D24	21°58	15°17	16°44	S 9
S 10	13 11 55	19°52'07	595 6	4°58	2°22	25°29	5°18	16°40	26°23	22°39	29° 2	20°24	21°55	15°24	16°48	S 10
M11	13 15 52	20°50'49	18°31	6°48	3°36	26°10	5°14	16°45	26°21	22°38	29° 4	20°R25	21°52	15°30	16°52	M11
T 12	13 19 48	21°49'28	$2\Omega$ 19	8°39	4°50	26°51	5°10	16°49	26°18	22°36	29° 5	20°24	21°49	15°37	16°56	T 12
W13	13 23 45	22°48'05	16°28	10°32	6° 4	27°32	5° 7	16°53	26°16	22°35	29° 6	20°22	21°46	15°44	17° 0	W13
T 14	13 27 41	23°46'40	0 <b>₯</b> 59	12°27	7°18	28°13	5° 3	16°57	26°13	22°34	29° 7	20°18	21°42	15°51	17° 4	T 14
F 15	13 31 38	24°45'13	15°48	14°23	8°32	28°53	4°58	17° 2	26°10	22°32	29° 8	20°11	21°39	15°57	17° 8	F 15
S 16	13 35 34	25°43'43	0 <b>ჲ</b> 47	16°20	9°46	29°34	4°54	17° 6	26° 8	22°31	29° 9	20° 3	21°36	16° 4	17°12	S 16
S 17	13 39 31	26°42'12	15°50	18°19	11° 0	0 <b>П</b> 14	4°50	17°10	26° 5	22°29	29°10	19°55	21°33	16°11	17°17	S 17
M18	13 43 28	27°40'38	0 <b>M</b> .45	20°20	12°14	0°55	4°45	17°13	26° 3	22°28	29°12	19°47	21°30	16°17	17°21	M18
T 19	13 47 24	28°39'03	15°24	22°22	13°28	1°36	4°40	17°17	26° 0	22°26	29°13	19°41	21°27	16°24	17°25	T 19
W20	13 51 21	29°37'26	29°40	24°25	14°41	2°16	4°35	17°21	25°58	22°25	29°14	19°38	21°23	16°31	17°29	W20
T 21	13 55 17	0 <b>8</b> 35'47	13 <b>×</b> 30	26°30	15°55	2°57	4°30	17°24	25°55	22°24	29°15	19°D36	21°20	16°38	17°33	T 21
F 22	13 59 14	1°34'06	26°52	28°36	17° 9	3°37	4°25	17°28	25°53	22°22	29°16	19°36	21°17	16°44	17°38	F 22
S 23	14 3 10	2°32'25	9 <b>궁</b> 49	0 <b>8</b> 43	18°23	4°17	4°20	17°31	25°50	22°21	29°18	19°37	21°14	16°51	17°42	S 23
S 24	14 7 7	3°30'41	22°23	2°51	19°36	4°58	4°14	17°35	25°47	22°19	29°19	19°38	21°11	16°58	17°46	S 24
M25	14 11 3	4°28'56	4≈39	5° 0	20°50	5°38	4° 9	17°38	25°45	22°18	29°20	19°R39	21° 8	17° 5	17°51	M25
T 26	14 15 0	5°27'09	16°43	7° 9	22° 4	6°18	4° 3	17°41	25°42	22°16	29°21	19°38	21° 4	17°11	17°55	T 26
W27	14 18 57	6°25'21	28°38	9°19	23°17	6°59	3°57	17°44	25°40	22°14	29°23	19°36	21° 1	17°18	17°59	W27
T 28	14 22 53	7°23'31	10 <b>)</b> €30	11°28	24°31	7°39	3°51	17°47	25°37	22°13	29°24	19°31	20°58	17°25	18° 3	T 28
F 29	14 26 50	8°21'40	22°21	13°38	25°44	8°19	3°45	17°50	25°35	22°11	29°25	19°25	20°55	17°31	18° 8	F 29
S 30	14 30 46	9 <b>8</b> 19'47	<b>4Υ</b> 17	15 <b>8</b> 46	26 <b>8</b> 58	8耳59	3 <b>∡</b> 739	17≈53	25 <b>₽</b> 33	22M 10	29 <b>8</b> 26	19 <b>×</b> 18	20 <b>х</b> 52	17 <b>) (</b> 38	18812	S 30

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F 1 S 2	4n23 4 46	1 s47 4n 2n53 5	0 5 43	2 s 2 6 7 n 2 s 2 6 7 5 5			20 s21 20 20	0n58 0 58		0 s 5 0 0 5 0	9 s47 9 46			1n48 1 48	7n57 12s17				14n21 14 23	2 s28 2 28
S 3 M 4	5 9 5 32	11 48 4	49 5 4 25 4 24	2 26 8 2° 2 25 8 50	0 48 18	44 0 36	20 20 20 20 20 10	0 58 0 58	16 49	0 51 0 51	9 46 9 45	0 35	16 46	1 48 1 48		23 10	23 15	1 19	14 24 14 25	2 28 2 28
T 5 W 6 T 7 F 8	5 54 6 17 6 40 7 2	18 58 3	48 3 42 0 3 0 3 2 16 0 1 32	2 24 9 25 2 22 9 54 2 19 10 25 2 16 10 5	0 44 19 0 42 19	6 0 37 17 0 38	20 19 20 19 3 20 18 3 20 17	0 58 0 58 0 58 0 58	16 46 16 45	0 51 0 51 0 51 0 51	9 44 9 43 9 42 9 41		16 45 16 45 16 45 16 44	1 48 1 48 1 48 1 48	7 58 12 16 7 59 12 16 7 59 12 16 7 59 12 16	23 9 5 23 8	23 15 23 15 23 15 23 15 23 15	1 14 1 11	14 26 14 27 14 28 14 29	2 28 2 28 2 28 2 28
S 9 S 10 M11	7 25 7 47 8 9	22 6 1	18 On 0	2 9 11 4	0 35 19	48 0 39	20 17 20 16 20 16 20 16	0 58 0 58 0 58	16 41	0 51 0 52 0 52	9 40 9 39 9 38	0 35	16 44	1 48 1 48 1 48	8 0 12 16 8 0 12 15 8 1 12 15	23 8	23 15 23 14 23 14	1 3	14 30 14 31 14 32	<ul><li>2 28</li><li>2 28</li><li>2 28</li></ul>
T 12 W13 T 14	0 /	16 22 3 11 54 4	24 0 48 25 1 36 14 2 26 48 3 16	2 0 12 4 1 54 13	0 31 20 0 28 20	9 0 40 18 0 41	20 15 20 14	0 58 0 58 0 58	16 39 16 38	0 52 0 52 0 52 0 52	9 38 9 37 9 36 9 36	0 35 0 35	16 43	1 48 1 48 1 48	8 1 12 15 8 1 12 15 8 2 12 15 8 2 12 15	23 8		0 58 0 55	14 34 14 35 14 36	2 28 2 28 2 28 2 28
F 15 S 16 S 17	9 36 9 58	0 56 5 4s54 5	4 4 7 0 4 59	1 42 14 0 1 35 14 20	0 24 20 6 0 21 20	38 0 42 47 0 42	20 13 20 12	0 58 0 58	16 36 16 35	0 52 0 53	9 35 9 34	0 35 0 35	16 42 16 41	1 48 1 48	8 2 12 14 8 3 12 14	23 7	23 13 23 13	0 50 0 47	14 37 14 38	2 28 2 28
M18 T 19 W20	10 19 10 40 11 1 11 22	15 22 3 19 14 2	-	1 27 14 5 1 19 15 10 1 11 15 4 1 2 16	0 17 21 0 14 21	5 0 43		0 59 0 59 0 59 0 59	16 33 16 32	0 53 0 53 0 53 0 53	9 33 9 32 9 31 9 30	0 35 0 35	16 41 16 40	1 48 1 48 1 48 1 48	8 3 12 14 8 4 12 14 8 4 12 14 8 4 12 14	23 6	23 13 5 23 13 5 23 13 5 23 12	0 42 0 39	14 39 14 40 14 41 14 43	2 28 2 28 2 28 2 28
	11 42 12 3	23 0 0 22 48 0n	33 9 25 39 10 19 47 11 13	0 53 16 29 0 43 16 53	0 9 21 0 7 21	31 0 44 39 0 45	20 7 20 6	0 59 0 59 0 59	16 30 16 29	0 53 0 53 0 54	9 29 9 28 9 27	0 35 0 35	16 39	1 48 1 48 1 48	8 5 12 13 8 5 12 13 8 6 12 13	23 5 23 5	23 12 5 23 12 5 23 12 5 23 12	0 34 0 31	14 44 14 45 14 46	2 28 2 28 2 28
S 24 M25 T 26	12 43 13 2 13 22	15 35 3	48 12 7 39 13 0 20 13 53	0 23 17 3	0n 1 22	3 0 46	20 3	0 59 0 59 0 59	16 26	0 54 0 54 0 54	9 26 9 25 9 25			1 48 1 48 1 48	8 6 12 13 8 6 12 13 8 7 12 13	23 5	23 12 23 11 23 11	0 23	14 47 14 48 14 49	2 29 2 29 2 29
W27 T 28 F 29	13 41 14 0 14 19		49 14 45 5 15 36 9 16 26	0n 8 18 4 0 19 19	1 0 6 22 1 0 9 22	17 0 47 24 0 47	20 1	0 59 0 59 0 59	16 24 16 24	0 54 0 54 0 55	9 24 9 23 9 22	0 35 0 35	16 37 16 37	1 48 1 48 1 49	8 7 12 13 8 7 12 13 8 7 12 12 8 8 12 12	23 5 23 4	23 11 23 11 23 10	0 18 0 15	14 51 14 52 14 53	2 29 2 29 2 29
S 30	14n38	6n16 4n	17n14	0n40 19n4	1 0n14 22r	38 0n48	19s58	0n59	16 s22	0s55	9 s21	0n35	16s36	1n49	8n 8 12s12	23 s 3	23 s10	0s10	14n54	$2\mathrm{s}29$

 $\label{eq:Julian Day Number = 2319782.5, Delta T = 50.93 sec} \\ Ecliptic obliquity = 23°29'10, Nutation = 0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°42'18, Lahiri = 18°49'19Greg. Calendar$ 

MAY 1639 GC 00:00 UT

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S 1	14 34 43	10817'53	16 <b>Y</b> 20	17 <b>8</b> 54	28812	9 <b>Ⅱ</b> 40	3°R32	17≈56	25°R30	22°R 8	29 <b>8</b> 28	19°R11	20 <b>∡</b> 148	17 <b>) (</b> 45	18816	S 1
M 2	14 38 39	11°15'57	28°30	20° 1	29°25	10°20	3 <b>∡</b> 126	17°59	25 <b>≏</b> 28	22 <b>M</b> 7	29°29	19 <b>🗷</b> 4	20°45	17°52	18°21	M 2
T 3	14 42 36	12°14'00	10851	22° 7	0Д38	11° 0	3°19	18° 1	25°25	22° 5	29°30	18°58	20°42	17°58	18°25	T 3
W 4	14 46 32	13°12'01	23°22	24°11	1°52	11°40	3°13	18° 4	25°23	22° 3	29°32	18°54	20°39	18° 5	18°30	W 4
T 5	14 50 29	14°10'01	6 <b>I</b> 5	26°13	3° 5	12°20	3° 6	18° 6	25°20	22° 2	29°33	18°52	20°36	18°12	18°34	T 5
F 6	14 54 26	15° 7'58	18°59	28°12	4°19	13° 0	2°59	18° 8	25°18	22° 0	29°34	18°D51	20°33	18°18	18°38	F 6
S 7	14 58 22	16° 5'55	295 6	0 <b>I</b> I10	5°32	13°40	2°52	18°10	25°16	21°59	29°36	18°52	20°29	18°25	18°43	S 7
S 8	15 2 19	17° 3'49	15°27	2° 4	6°45	14°20	2°45	18°13	25°13	21°57	29°37	18°53	20°26	18°32	18°47	S 8
M 9	15 6 15	18° 1'42	29° 2	3°56	7°59	15° 0	2°38	18°15	25°11	21°55	29°38	18°54	20°23	18°39	18°52	M 9
T 10	15 10 12	18°59'32	$12\Omega52$	5°45	9°12	15°40	2°31	18°17	25° 9	21°54	29°40	18°R55	20°20	18°45	18°56	T 10
W11	15 14 8	19°57'21	26°56	7°32	10°25	16°19	2°23	18°18	25° 7	21°52	29°41	18°55	20°17	18°52	19° 0	W11
T 12	15 18 5	20°55'08	11 <b>M</b> 14	9°15	11°38	16°59	2°16	18°20	25° 4	21°51	29°42	18°54	20°14	18°59	19° 5	T 12
F 13	15 22 1	21°52'54	25°42	10°54	12°52	17°39	2° 9	18°22	25° 2	21°49	29°44	18°52	20°10	19° 6	19° 9	F 13
S 14	15 25 58	22°50'37	10 <b>≏</b> 18	12°31	14° 5	18°19	2° 1	18°23	25° 0	21°47	29°45	18°48	20° 7	19°12	19°14	S 14
S 15	15 29 55	23°48'20	24°54	14° 4	15°18	18°59	1°54	18°25	24°58	21°46	29°46	18°45	20° 4	19°19	19°18	S 15
M16	15 33 51	24°46'00	9 <b>M</b> 25	15°34	16°31	19°38	1°46	18°26	24°56	21°44	29°48	18°42	20° 1	19°26	19°22	M16
T 17	15 37 48	25°43'40	23°44	17° 1	17°44	20°18	1°39	18°27	24°54	21°42	29°49	18°39	19°58	19°32	19°27	T 17
W18	15 41 44	26°41'18	7 <b>.</b> ₹46	18°24	18°57	20°58	1°31	18°28	24°52	21°41	29°50	18°38	19°54	19°39	19°31	W18
T 19	15 45 41	27°38'55	21°28	19°43	20°10	21°37	1°24	18°29	24°50	21°39	29°52	18°D38	19°51	19°46	19°35	T 19
F 20	15 49 37	28°36'30	4 <b>⋜</b> 47	20°59	21°23	22°17	1°16	18°30	24°48	21°38	29°53	18°38	19°48	19°53	19°40	F 20
S 21	15 53 34	29°34'05	17°44	22°12	22°36	22°56	1° 8	18°31	24°46	21°36	29°54	18°39	19°45	19°59	19°44	S 21
S 22	15 57 30	0 <b>Ⅲ</b> 31'39	0≈21	23°21	23°49	23°36	1° 1	18°32	24°44	21°34	29°56	18°41	19°42	20° 6	19°49	S 22
M23	16 1 27	1°29'11	12°40	24°26	25° 2	24°15	0°53	18°33	24°42	21°33	29°57	18°42	19°39	20°13	19°53	M23
T 24	16 5 24	2°26'43	24°47	25°27	26°15	24°55	0°45	18°33	24°40	21°31	29°59	18°43	19°35	20°20	19°57	T 24
W25	16 9 20	3°24'14	6 <b>){</b> 44	26°25	27°27	25°34	0°38	18°34	24°38	21°30	29°59	18°R43	19°32	20°26	20° 2	W25
T 26	16 13 17	4°21'44	18°37	27°18	28°40	26°14	0°30	18°34	24°36	21°28	0 <b>I</b> 1	18°43	19°29	20°33	20° 6	T 26
F 27	16 17 13	5°19'14	0 <b>Υ</b> 31	28° 8	29°53	26°53	0°23	18°34	24°35	21°26	0° 3	18°41	19°26	20°40	20°10	F 27
S 28	16 21 10	6°16'42	12°29	28°54	195 6	27°32	0°15	18°35	24°33	21°25	0° 4	18°40	19°23	20°46	20°14	S 28
S 29	16 25 6	7°14'10	24°36	29°35	2°19	28°12	0° 7	18°R35	24°31	21°23	0° 5	18°38	19°20	20°53	20°19	S 29
M30	16 29 3	8°11'37	6 <b>8</b> 54	0912	3°31	28°51	29M59	18°35	24°30	21°22	<u>0</u> ° 7	18°37	19°16	21° 0	20°23	M30
T 31	16 32 59	9Ⅱ 9'03	19 <b>8</b> 26	09645	49544	29∏30	29M52	18 <b>≈</b> 35	24 <b>₾</b> 28	21 <b>M</b> 20	0 <b>I</b> 8	18 <b>∡</b> ³36	19 <b>×</b> 13	21 <b>米</b> 7	20827	T 31

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S 1 M 2	14n56		n35 1	8n 0	0n50 1 0	20n 4 20 22		22n45 22 51		19s57 19 55	0n59 0 59		0s55 0 55	9 s20 9 19	0n35 0 35	16s35 16 35	1n49 1 49	8n 9 12s 8 9 12	12 23 12 23	s 3 23 2 23			14n55 14 56	2 s29 2 29
T 3	15 14		12 1		1 10			22 57		19 53	0 59	-	0 55	9 19		16 35	1 49		12 23	2 23			14 57	2 29
W 4			14 2		1 19		0 24			19 53	0 59		0 55	9 18		16 34	1 49		12 23	1 23	-		14 58	2 29
T 5	16 7	22 30 1	9 2	20 46	1 28	21 15	0 26			19 52		16 19	0 56	9 17		16 34	1 49		12 23	1 23		0 3	15 0	2 29
F 6	16 24	23 1 0	s 1 2	21 22	1 36	21 31	0 29	23 14	0 50	19 50	0 58	16 18	0 56	9 16	0 35	16 33	1 49	8 10 12	12 23	1 23	9	0 6	15 1	2 29
S 7	16 41	22 16 1	12 2	21 55	1 44	21 47	0 32	23 20	0 51	19 49	0 58	16 18	0 56	9 15	0 35	16 33	1 49	8 11 12	11 23	1 23	9	0 9	15 2	2 29
S 8	16 58	20 16 2	20 2	22 26	1 51	22 2	0 34	23 25	0 51	19 48	0 58	16 17	0 56	9 14	0 35	16 32	1 49	8 11 12	11 23	1 23	8	0 11	15 3	2 29
M 9	17 14	17 6 3	22 2	22 54	1 58	22 17	0 37	23 30	0 52	19 46	0 58	16 17	0 56	9 13	0 35	16 32	1 49	8 12 12	11 23	1 23	8	0 14	15 4	2 30
T 10	17 30	12 56 4	13 2	23 20	2 3	-		23 34		19 45	0 58		0 56	9 13	0 35	16 32	1 49	8 12 12		1 23	-	0 17	15 5	2 30
W11	17 46		-	23 43	2 8		-	23 39		19 44	0 58		0 57	9 12		16 31	1 49	8 12 12		1 23	-	0 19		2 30
T 12	18 1		10 2			22 57		23 43	0 53		0 58		0 57	9 11	0 35	16 31	1 49	8 13 12		1 23		0 22	15 7	2 30
F 13	18 16		11 2		2 16			23 47	0 53	-	0 58		0 57	9 10		16 30	1 49	8 13 12		1 23		0 25	15 8	2 30
S 14	18 31	8 33 4	52 2	24 37	2 18	23 20	0 49	23 51	0 53	19 40	0 58	16 15	0 57	9 9	0 35	16 30	1 49	8 13 12	11 23	1 23	7	0 27	15 10	2 30
S 15	18 46	13 35 4	13 2	24 51	2 20	23 31		23 55	0 54			16 15	0 57	9 9	0 35	16 30	1 49	8 14 12		0 23	7	0 30	15 11	2 30
M16	19 0		19 2		2 21	-		23 59	0 54		0 58		0 57	9 8	0 35	16 29	1 49		11 23	0 23			15 12	2 30
T 17	-		13 2		2 21		0 56		0 54		0 58		0 58	9 7	0 35	16 29	1 49	8 14 12		0 23			15 13	2 30
W18			59 2		2 20			24 5			0 58		0 58	9 6	0 35	16 28	1 49	8 15 12		0 23			15 14	2 30
T 19			n16 2		2 18			24 8		19 32		16 14	0 58	9 6	0 35	16 28	1 49	8 15 12		0 23			15 15	2 31
F 20			28 2		2 16	-		24 11		19 31	0 58		0 58	9 5	0 35	16 28	1 49	8 15 12		0 23			15 16	2 31
S 21	20 6		34 2			24 21		24 13		19 29		16 14	0 58	9 4		16 27	1 49	8 15 12		0 23			15 17	
S 22		-	30 2		2 8			24 16		19 28		16 14	0 58	9 4	0 35		1 49	8 16 12		0 23	-		15 18	2 31
M23	20 30		16 2		2 3		-	24 18		19 27	0 57	-	0 59	9 3	0 35	16 26	1 49		10 23	0 23	-		15 19	2 31
T 24	20 41		49 2		1 57			24 20		19 25		16 14	0 59	9 2		16 26	1 48	8 16 12		0 23			15 20	2 31
	20 53	4 16 5	-	25 16		24 41	1 13			19 24		16 14	0 59	9 2		16 26	1 48	8 17 12		0 23			15 21	2 31
	21 3 21 14	0n20 5 4 56 5	16 2			24 44 24 46		<ul><li>24 23</li><li>24 24</li></ul>		19 22 19 21		16 14 16 14	0 59 0 59	9 1 9 0	0 35		1 48 1 48	8 17 12 8 17 12		0 23			15 22 15 23	2 31 2 31
	21 14		49 2	-		24 46		24 24 25		19 21		16 14	1 0	9 0	0 34		1 48	8 17 12		0 23			15 23	2 31
			16 2			24 49		24 26		19 18		16 14	-			16 24		8 18 12					15 25	2 32
	21 43		31 2			24 49		24 26 27		19 18		16 14	1 0	8 59 8 59		16 24	1 48 1 48	8 18 12					15 25	2 32
	21 43 21n52		n34 2			24 49 24n48		24 27 24n27		19 16 19s15		16 14 16s14	1 0 1s 0	8 s 5 9		16 24 16 s 2 3	1 48 1n48	8 18 12 8n18 12s					15 26 15n27	2 s32
1 31	411134	2011 0 2	1134 2	2 <del>4</del> 1120	01131	241148	11124	24H2 /	01138	19813	01136	10814	18 0	0838	01154	10823	11148	01110 128	10 23	S U 23	18 3	11112	13114/	2832

 $\label{eq:Julian Day Number = 2319812.5, Delta T = 50.87 sec} \\ Ecliptic obliquity = 23°29'09, Nutation = 0°00'16, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°42'22, Lahiri = 18°49'23Greg. Calendar$ 

JUNE 1639 GC 00:00 UT

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W 1	16 36 56	10 <b>I</b> I 6'28	2 <b>I</b> 12	19914	5956	09910	29°R45	18°R34	24°R27	21°R19	0П 9	18°R35	19 <b>×</b> 10	21 <b>米</b> 13	20831	W 1
T 2	16 40 53	11° 3'53	15°14	1°38	7° 9	0°49	29MJ38	18≈34	24 <b>₽</b> 25	21 <b>M</b> .17	0°11	18°D34	19° 7	21°20	20°36	T 2
F 3	16 44 49	12° 1'17	28°31	1°58	8°22	1°28	29°30	18°34	24°24	21°16	0°12	18 <b>∡</b> ³35	19° 4	21°27	20°40	F 3
S 4	16 48 46	12°58'40	1295 3	2°13	9°34	2° 7	29°23	18°33	24°22	21°14	0°13	18°35	19° 0	21°33	20°44	S 4
S 5	16 52 42	13°56'02	25°47	2°23	10°47	2°47	29°16	18°33	24°21	21°13	0°15	18°35	18°57	21°40	20°48	S 5
M 6	16 56 39	14°53'23	9 <b>Ω</b> 42	2°29	11°59	3°26	29° 9	18°32	24°19	21°11	0°16	18°36	18°54	21°47	20°52	M 6
T 7	17 0 35	15°50'42	23°45	2°R31	13°11	4° 5	29° 2	18°31	24°18	21°10	0°17	18°36	18°51	21°54	20°56	T 7
W 8	17 4 32	16°48'01	7 <b>m</b> 55	2°27	14°24	4°44	28°55	18°30	24°17	21° 8	0°19	18°36	18°48	22° 0	21° 1	W 8
T 9	17 8 28	17°45'19	22° 9	2°20	15°36	5°23	28°48	18°29	24°16	21° 7	0°20	18°R36	18°45	22° 7	21° 5	T 9
F 10	17 12 25	18°42'36	6 <b>≏</b> 25	2° 8	16°49	6° 2	28°41	18°28	24°15	21° 6	0°21	18°D36	18°41	22°14	21° 9	F 10
S 11	17 16 22	19°39'52	20°39	1°52	18° 1	6°41	28°34	18°27	24°14	21° 4	0°23	18°36	18°38	22°21	21°13	S 11
S 12	17 20 18	20°37'07	4 <b>M</b> .49	1°33	19°13	7°20	28°27	18°26	24°12	21° 3	0°24	18°36	18°35	22°27	21°17	S 12
M13	17 24 15	21°34'22	18°52	1° 9	20°25	7°59	28°21	18°24	24°11	21° 1	0°25	18°37	18°32	22°34	21°21	M13
T 14	17 28 11	22°31'36	2 <b>₹</b> 44	0°43	21°37	8°38	28°14	18°23	24°11	21° 0	0°26	18°37	18°29	22°41	21°25	T 14
W15	17 32 8	23°28'49	16°23	0°14	22°49	9°17	28° 8	18°21	24°10	20°59	0°28	18°R37	18°26	22°47	21°29	W15
T 16	17 36 4	24°26'02	29°47	29∏43	24° 1	9°56	28° 2	18°20	24° 9	20°58	0°29	18°37	18°22	22°54	21°32	T 16
F 17	17 40 1	25°23'14	12 <b>る</b> 53	29°10	25°13	10°35	27°56	18°18	24° 8	20°56	0°30	18°36	18°19	23° 1	21°36	F 17
S 18	17 43 58	26°20'26	25°43	28°35	26°25	11°14	27°50	18°16	24° 7	20°55	0°32	18°36	18°16	23° 8	21°40	S 18
S 19	17 47 54	27°17'38	8 <b>≈</b> 16	28° 0	27°37	11°53	27°44	18°14	24° 6	20°54	0°33	18°35	18°13	23°14	21°44	S 19
M20	17 51 51	28°14'50	20°35	27°25	28°49	12°32	27°38	18°12	24° 6	20°53	0°34	18°33	18°10	23°21	21°48	M20
T 21	17 55 47	29°12'01	2 <b>) (</b> 41	26°51	$0\Omega$ 1	13°10	27°33	18°10	24° 5	20°51	0°35	18°32	18° 6	23°28	21°51	T 21
W22	17 59 44	09 9'13	14°40	26°18	1°13	13°49	27°27	18° 8	24° 5	20°50	0°36	18°31	18° 3	23°35	21°55	W22
T 23	18 3 40	1° 6'24	26°34	25°46	2°25	14°28	27°22	18° 6	24° 4	20°49	0°38	18°D31	18° 0	23°41	21°59	T 23
F 24	18 7 37	2° 3'36	8 <b>Ƴ</b> 28	25°17	3°36	15° 7	27°17	18° 3	24° 4	20°48	0°39	18°31	17°57	23°48	22° 3	F 24
S 25	18 11 33	3° 0'48	20°26	24°50	4°48	15°45	27°12	18° 1	24° 3	20°47	0°40	18°31	17°54	23°55	22° 6	S 25
S 26	18 15 30	3°58'00	2 <b>8</b> 35	24°27	6° 0	16°24	27° 7	17°58	24° 3	20°46	0°41	18°33	17°51	24° 1	22°10	S 26
M27	18 19 27	4°55'12	14°56	24° 7	7°11	17° 3	27° 2	17°56	24° 3	20°45	0°42	18°34	17°47	24° 8	22°13	M27
T 28	18 23 23	5°52'24	27°35	23°52	8°23	17°42	26°58	17°53	24° 2	20°44	0°44	18°35	17°44	24°15	22°17	T 28
W29	18 27 20	6°49'36	10 <b>Ⅲ</b> 32	23°41	9°34	18°20	26°53	17°50	24° 2	20°43	0°45	18°36	17°41	24°22	22°20	W29
T 30	18 31 16	79546'49	23 <b>Ⅲ</b> 51	23耳34	10 <b>Ω</b> 46	189559	26M49	17 <b>≈</b> 48	24 <b>♀</b> 2	20 <b>M</b> .42	0 <b>Ⅱ</b> 46	18°R36	17 <b>∡</b> ³38	24 <b>)</b> 28	22 <b>8</b> 24	T 30

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W 1	22n 0	22n 6	1n29	24n 7	0n38	24n47	1n26 2	4n28	0n59	19s13	0n56	16s15	1s 0	8 s58	0n34	16 s23	1n48	8n19 12	2s10 2	3s 0	23 s 3	1n14	15n28	2 s32
T 2	22 9			23 54		24 45	1 28 2			19 12	0 56		1 0			16 22	1 48	8 19 12			23 2		15 29	2 32
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S 4	22 24	20 50	2 6	23 25	0s 3	24 39	1 31 2	4 28	0 59	19 9	0 56	16 15	1 1	8 56	0 34	16 22	1 48	8 19 12	2 10 2	3 0	23 2	1 22	15 31	2 33
S 5	22 31	17 53	3 12	23 9	0 19	24 35	1 32 2	4 27	1 0	19 8	0 55	16 16	1 1	8 56	0 34	16 21	1 48	8 20 12	2 10 2	3 0	23 2	1 25	15 32	2 33
M 6	22 38	13 53	4 7	22 53	0 34	24 30	1 34 2	4 26	1 0	19 6	0 55	16 16	1 1	8 55	0 34	16 21	1 48	8 20 12	2 10 2	3 0	23 1	1 27	15 33	2 33
T 7	22 44	9 6	4 48	22 37	0 50	24 24	1 35 2	4 26	1 0	19 5	0 55	16 17	1 1	8 55	0 34	16 21	1 48	8 20 12	2 10 2	3 0	23 1	1 30	15 34	2 33
W 8	22 50		-	22 21	1 7		1 36 2		1 0	19 4	0 55		1 1	8 54	0 34	16 20	1 48		2 11 2		23 1	1 33	15 35	2 33
T 9	22 55		5 16			24 11		4 23	1 1	19 2	0 55		1 2	8 54		16 20	1 48		2 11 2		23 0		15 36	2 33
F 10	23 0	,		21 48	1 41			4 22	1 1	19 1	0 55		1 2	8 53		-	1 48		2 11 2		23 0		15 37	2 34
S 11	23 5	12 14	4 29	21 31	1 57	23 55	1 40 2	4 20	1 1	19 0	0 54	16 19	1 2	8 53	0 34	16 19	1 48	8 21 12	2 11 2	3 0	23 0	1 40	15 37	2 34
S 12	23 9	16 36	3 40	21 14	2 14	23 46	1 41 2	4 18	1 1	18 58	0 54	16 19	1 2	8 53	0 34	16 19	1 48	8 21 12	2 11 2	3 0	23 0	1 43	15 38	2 34
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				-		23 26	1 43 2		1 2		0 54		1 2	8 52		16 18	1 48		2 11 2		22 59		15 40	2 34
W15	23 19			20 27	3 2		1 43 2		1 2		0 54		1 3	8 52	0 34	16 18	1 48		2 11 2		22 59		15 41	2 34
T 16	_	22 28		20 12	3 17		1 44 2		1 2		0 54	-	1 3	8 51	0 34	16 18	1 48	8 22 12			22 59		15 42	2 35
F 17	_			19 58		22 51	1 45 2		1 2		0 53		1 3	8 51		16 17	1 48	8 22 12			22 58		15 43	2 35
S 18	23 26	17 54	3 11	19 45	3 44	22 38	1 45 2	4 3	1 3	18 51	0 53	16 23	1 3	8 51	0 34	16 17	1 48	8 22 12	2 11 2	3 0	22 58	1 58	15 43	2 35
S 19	23 27	14 21	4 1	19 33	3 56	22 24	1 46 2	-	1 3	18 50	0 53	16 24	1 3	8 51	0 34	16 17	1 48				22 58	2 1	15 44	2 35
M20	23 28			19 21	4 6		1 46 2		1 3	-	0 53		1 3	8 50		16 17	1 48	8 22 12					15 45	2 35
T 21	23 29		-	19 11		21 55		3 53			0 53		1 4	8 50		-	-	8 23 12					15 46	2 35
W22	23 29		5 15			21 40		3 49		18 47	0 52		1 4	8 50			1 48	8 23 12					15 47	2 36
T 23	23 29			18 56		21 24	1 47 2		1 4	18 46	0 52		1 4			16 16	1 48	8 23 12					15 47	2 36
F 24	23 28			18 50	4 34		1 47 2		1 4	18 45	0 52		1 4	8 50		16 15	1 48	8 23 12					15 48	2 36
S 25	23 27	12 8	4 29	18 45	4 38	20 50	1 47 2	3 37	1 4	18 44	0 52	16 29	1 4	8 50	0 34	16 15	1 48	8 23 12	2 12 2	2 59	22 56	2 17	15 49	2 36
S 26	-		-	18 43		20 33	1 47 2		1 4	-	0 52		1 4	8 50		16 15	-	8 23 12					15 49	2 36
M27	_				4 40		1 47 2		1 4	18 42	0 51		1 5					8 23 12			22 55		15 50	2 37
T 28	_			18 42	4 39		1 47 2		1 4	18 41	0 51		1 5			-		8 24 12			22 55		15 51	2 37
	-	_	-	18 44			1 47 2	-			0 51		1 5	-				8 24 12					15 52	2 37
T 30	23n15	22n52	0 s29	18n48	4 s 3 2	19n16	1n46 2	3n12	1n 5	18 s40	0n51	16s34	1s 5	8 s49	0n33	16s14	1n47	8n24 12	2s12 2	3s 0	22 s55	2n29	15n52	2 s37

Julian Day Number = 2319843.5, Delta T = 50.81 sec Ecliptic obliquity =  $23^{\circ}29'08$ , Nutation =  $0^{\circ}00'16$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}42'27$ , Lahiri =  $18^{\circ}49'27$ Greg. Calendar

JULY 1639 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)મ(	卉	Р	r	v	Ç	Ŗ	Day
F 1	18 35 13	8944'02	7930	23°D32	11 <b>Ω</b> 57	19938	26°R45	17°R45	24°R 2	20°R41	0 <b>Ⅱ</b> 47	18°R35	17 <b>∡</b> ³35	24 <b>)</b> 35	22827	F 1
S 2	18 39 9	9°41'14	21°27	23 <b>II</b> 35	13° 9	20°16	26 <b>M</b> 41	17≈42	24°D 2	20 <b>M</b> 40	0°48	18 <b>₹</b> 33	17°32	24°42	22°30	S 2
S 3	18 43 6	10°38'27	5Ω39	23°43	14°20	20°55	26°37	17°39	24 <b>Ω</b> 2	20°39	0°49	18°31	17°28	24°48	22°34	S 3
M 4	18 47 2	11°35'40	20° 0	23°57	15°31	21°34	26°33	17°36	24° 2	20°38	0°50	18°28	17°25	24°55	22°37	M 4
T 5	18 50 59	12°32'53	4 Mp 27	24°15	16°42	22°12	26°30	17°32	24° 2	20°37	0°51	18°25	17°22	25° 2	22°40	T 5
W 6	18 54 56	13°30'05	18°52	24°39	17°54	22°51	26°27	17°29	24° 2	20°36	0°52	18°22	17°19	25° 9	22°43	W 6
T 7	18 58 52	14°27'18	3 <b>₾</b> 13	25° 8	19° 5	23°29	26°24	17°26	24° 2	20°35	0°53	18°21	17°16	25°15	22°47	T 7
F 8	19 2 49	15°24'30	17°26	25°42	20°16	24° 8	26°21	17°22	24° 3	20°35	0°54	18°D20	17°12	25°22	22°50	F 8
S 9	19 6 45	16°21'42	1 <b>M</b> 28	26°21	21°27	24°47	26°18	17°19	24° 3	20°34	0°55	18°21	17° 9	25°29	22°53	S 9
S 10	19 10 42	17°18'55	15°19	27° 6	22°38	25°25	26°15	17°15	24° 3	20°33	0°56	18°22	17° 6	25°36	22°56	S 10
M11	19 14 38	18°16'08	28°58	27°55	23°48	26° 4	26°13	17°12	24° 4	20°32	0°57	18°24	17° 3	25°42	22°59	M11
T 12	19 18 35	19°13'21	12 <b>×</b> 24	28°50	24°59	26°42	26°11	17° 8	24° 4	20°32	0°58	18°R25	17° 0	25°49	23° 2	T 12
W13	19 22 31	20°10'34	25°38	29°49	26°10	27°21	26° 9	17° 4	24° 5	20°31	0°59	18°25	16°57	25°56	23° 5	W13
T 14	19 26 28	21° 7'47	8 <b>궁</b> 40	0954	27°21	27°59	26° 7	17° 1	24° 5	20°31	1° 0	18°23	16°53	26° 2	23° 7	T 14
F 15	19 30 25	22° 5'01	21°29	2° 3	28°31	28°37	26° 5	16°57	24° 6	20°30	1° 1	18°20	16°50	26° 9	23°10	F 15
S 16	19 34 21	23° 2'15	4≈ 5	3°17	29°42	29°16	26° 3	16°53	24° 7	20°29	1° 2	18°15	16°47	26°16	23°13	S 16
S 17	19 38 18	23°59'30	16°29	4°36	0 <b>m</b> 52	29°54	26° 2	16°49	24° 7	20°29	1° 3	18° 9	16°44	26°23	23°16	S 17
M18	19 42 14	24°56'46	28°42	5°59	2° 2	0 <b>Ω</b> 33	26° 1	16°45	24° 8	20°28	1° 4	18° 3	16°41	26°29	23°18	M18
T 19	19 46 11	25°54'02	10 <b>)</b> (46	7°27	3°13	1°11	26° 0	16°41	24° 9	20°28	1° 5	17°57	16°37	26°36	23°21	T 19
W20	19 50 7	26°51'19	22°43	8°59	4°23	1°50	25°59	16°37	24°10	20°28	1° 6	17°51	16°34	26°43	23°23	W20
T 21	19 54 4	27°48'37	<b>4</b> Υ35	10°35	5°33	2°28	25°59	16°33	24°11	20°27	1° 6	17°47	16°31	26°49	23°26	T 21
F 22	19 58 0	28°45'56	16°28	12°15	6°43	3° 6	25°58	16°29	24°12	20°27	1° 7	17°45	16°28	26°56	23°28	F 22
S 23	20 1 57	29°43'16	28°25	13°59	7°53	3°45	25°58	16°25	24°13	20°26	1° 8	17°D44	16°25	27° 3	23°31	S 23
S 24	20 5 54	0 <b>Ω</b> 40'37	10832	15°47	9° 3	4°23	25°D58	16°21	24°14	20°26	1° 9	17°44	16°22	27°10	23°33	S 24
M25	20 9 50	1°37'59	22°52	17°37	10°13	5° 1	25°58	16°16	24°15	20°26	1°10	17°45	16°18	27°16	23°35	M25
T 26	20 13 47	2°35'22	5 <b>Ⅱ</b> 32	19°30	11°23	5°40	25°58	16°12	24°16	20°26	1°10	17°47	16°15	27°23	23°38	T 26
W27	20 17 43	3°32'47	18°34	21°26	12°33	6°18	25°59	16° 8	24°18	20°25	1°11	17°R47	16°12	27°30	23°40	W27
T 28	20 21 40	4°30'12	295 1	23°25	13°42	6°56	26° 0	16° 3	24°19	20°25	1°12	17°46	16° 9	27°37	23°42	T 28
F 29	20 25 36	5°27'39	15°54	25°25	14°52	7°35	26° 0	15°59	24°20	20°25	1°12	17°43	16° 6	27°43	23°44	F 29
S 30	20 29 33	6°25'07	0 <b>Ω</b> 11	27°26	16° 2	8°13	26° 1	15°55	24°22	20°25	1°13	17°38	16° 3	27°50	23°46	S 30
S 31	20 33 29	7 <b>N</b> 22'35	14 <b>Ω</b> 47	29529	17 <b>m</b> )11	8 <b>N</b> 51	26M 3	15≈50	24 <b>₽</b> 23	20 <b>M</b> 25	1 <b>Ⅱ</b> 14	17 <b>∡</b> 32	15 <b>×</b> 759	27 <b>米</b> 57	23 <b>8</b> 48	S 31

Day	0	D	ğ		φ	♂	2	ŀ	ħ		)į	γ(	并		Р	n	v	Ç	, K
	decl	decl lat	decl l	lat dec	lat dec	l lat	decl	lat	decl l	at	decl	lat	decl la	ıt	decl lat	decl	decl	decl	decl lat
F 1 S 2	23n12 23 8		2 18n53 1 18 59	4s27 18n56 4 21 18 33			18 s 3 9 18 3 8	0n50 0 50		1 s 5 1 5	8 s49 8 49			1n47 1 47	8n24 12 s12 8 24 12 12				15n53 2s37 15 53 2 38
S 3 M 4 T 5 W 6	23 3 22 59 22 54 22 48	10 28 4 3 5 10 5	0 19 7 6 19 16 4 19 26 4 19 37	4 14 18 14 4 6 17 52 3 56 17 30 3 46 17	1 44 22 5 1 43 22 4	0 1 5 4 1 6	18 38 18 37 18 36 18 36	0 50 0 50 0 49 0 49	16 38 16 39	1 6 1 6 1 6 1 6	8 49 8 50 8 50 8 50	0 33 0 33	16 13 16 13	1 47 1 47 1 47 1 47	8 24 12 13 8 24 12 13 8 24 12 13 8 24 12 13	22 59 22 59	22 53 22 53	2 40 2 42	15 54 2 38 15 55 2 38 15 55 2 38 15 56 2 39
T 7 F 8 S 9	22 42 22 36 22 29	5 55 5 11 5 4 3 15 35 3 4	3 19 48 4 20 1 9 20 14	3 35 16 44 3 24 16 23 3 12 15 57	1 1 41 22 3 1 1 40 22 2 7 1 39 22 1	1 1 6 5 1 6 8 1 6	18 35 18 35 18 34		16 43 16 44	1 6 1 6 1 6	8 50 8 50 8 50	0 33 0 33 0 33	16 13 16 13 16 13	1 47 1 47 1 47	8 24 12 13 8 24 12 13 8 24 12 13	22 58 22 58 22 58	22 52 22 52 22 52	2 47 2 50 2 52	15 56 2 39 15 57 2 39 15 58 2 39
S 10 M11 T 12 W13 T 14 F 15 S 16	22 6 21 58 21 49 21 40	21 40 1 4 22 52 0 3 22 45 0n3 21 24 1 4 18 58 2 5	9 21 10 8 21 23 0 21 37	2 59 15 32 2 46 15 8 2 33 14 43 2 19 14 11 2 6 13 5 1 52 13 23 1 37 12 59	3 1 36 22 3 1 35 21 5 7 1 34 21 4 1 32 21 4 5 1 30 21 3	4 1 6 7 1 7 9 1 7 2 1 7 4 1 7	18 33 18 33 18 33 18 33	0 48 0 47 0 47	16 46 16 47 16 49 16 50 16 51	1 7 1 7 1 7 1 7 1 7 1 7	8 50 8 50 8 51 8 51 8 51 8 51	0 33 0 33 0 33 0 33 0 33	16 12 16 12 16 12 16 12 16 12	1 47 1 47 1 47 1 47 1 47 1 47	8 24 12 14 8 24 12 14 8 25 12 14 8 25 12 14 8 25 12 14 8 25 12 14	22 59 22 59 22 59 22 59 22 59 22 58	22 51 22 51 22 51 22 50 22 50	2 57 3 0 3 3 3 5 3 8	15 58 2 39 15 59 2 40 15 59 2 40 16 0 2 40 16 0 2 40 16 1 2 41
S 17 M18 T 19 W20 T 21 F 22 S 23	21 21 21 11 21 0 20 50 20 38 20 27	11 43 4 2 7 22 4 5 2 48 5 1n50 5 6 22 4 5 10 40 4 3	7 22 36	1 37 12 55 1 23 12 32 1 9 12 3 0 55 11 38 0 42 11 10 0 28 10 42 0 15 10 14 0 3 9 40	2 1 27 21 1 5 1 25 21 1 8 1 23 21 0 1 20 20 5 2 1 18 20 4 4 1 16 20 3	8 1 7 0 1 7 2 1 7 3 1 7 5 1 8 6 1 8	18 33 18 33 18 33 18 33 18 33		16 57 16 58 16 59 17 1	1 8 1 8 1 8 1 8 1 8 1 8 1 8	8 52 8 52 8 52 8 53 8 53 8 53 8 54 8 54	0 33 0 33 0 33 0 33 0 33 0 33	16 12 16 12 16 11 16 11 16 11 16 11	1 46 1 46 1 46 1 46 1 46 1 46 1 46 1 46	8 25 12 15	22 57 22 57 22 56 22 56 22 55 22 55	22 49 22 49 22 49 22 48 22 48 22 48	3 10 3 13 3 15 3 18 3 20 3 23 3 25 3 28	16 1 2 41 16 2 2 41 16 2 2 42 16 3 2 42 16 3 2 42 16 3 2 42
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	19 50 19 37 19 24 19 10 18 56 18 42	20 38 2 1 22 21 1 22 55 0s 22 12 1 1 20 8 2 2 16 46 3 2	4 22 29	0n10 9 17 0 21 8 48 0 32 8 19 0 43 7 50 0 52 7 2 1 1 6 5 1 9 6 22	8 1 9 20 1 6 19 5 1 3 19 5 1 0 19 4 0 57 19 3 2 0 54 19 2	9 1 8 9 1 8 0 1 8 0 1 8 1 1 8	18 34 18 34 18 34	0 44	17 5 17 6 17 8 17 9 17 10 17 12	1 8 1 9 1 9 1 9 1 9 1 9 1 9	8 55 8 55 8 56 8 56 8 57 8 57 8 58 8 58	0 32 0 32 0 32 0 32 0 32 0 32	16 11 16 11 16 11 16 11 16 11 16 11	1 46 1 46 1 46 1 46 1 46 1 46 1 46	8 25 12 16 8 24 12 16 8 24 12 16 8 24 12 17 8 24 12 17 8 24 12 17 8 24 12 17 8 24 12 17	22 55 22 55 22 55 22 55 22 55 22 55 22 55	22 47 22 46 22 46 22 46 22 45 22 45	3 30 3 33 3 35 3 38 3 40 3 43 3 45	16 4 2 43 16 5 2 43 16 5 2 44 16 5 2 44 16 5 2 44

Julian Day Number = 2319873.5, Delta T = 50.75 sec

Ecliptic obliquity =  $23^{\circ}29'08$ , Nutation =  $0^{\circ}00'17$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}42'31$ , Lahiri =  $18^{\circ}49'31$ Greg. Calendar

AUGUST 1639 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)ұ(	¥	В	R	Ω	Ç	ķ	Day
M 1	20 37 26	8 <b>Ω</b> 20'05	29€35	1£32	18 <b>m</b> )20	9Ω30	26M 4	15°R46	24 <u>Ω</u> 25	20°R25	1 <b>I</b> I14	17°R24	15 <b>₹</b> 756	28 <b>米</b> 3	23850	M 1
T 2	20 41 23	9°17'35	14 m/27	3°37	19°30	10° 8	26° 6	15≈41	24°26	20°D25	1°15	17 <b>×</b> 717	15°53	28°10	23°52	T 2
W 3	20 45 19	10°15'06	29°15	5°41	20°39	10°46	26° 7	15°37	24°28	20M25	1°16	17°10	15°50	28°17	23°53	W 3
T 4	20 49 16	11°12'38	13 <b>≏</b> 51	7°45	21°48	11°25	26° 9	15°32	24°29	20°25	1°16	17° 5	15°47	28°24	23°55	T 4
F 5	20 53 12	12°10'11	28°11	9°49	22°57	12° 3	26°12	15°28	24°31	20°25	1°17	17° 2	15°43	28°30	23°57	F 5
S 6	20 57 9	13° 7'45	12 <b>M</b> 12	11°52	24° 6	12°41	26°14	15°23	24°33	20°25	1°17	17°D 1	15°40	28°37	23°58	S 6
S 7	21 1 5	14° 5'19	25°54	13°55	25°14	13°19	26°16	15°19	24°35	20°25	1°18	17° 2	15°37	28°44	24° 0	S 7
M 8	21 5 2	15° 2'55	9 <b>∡</b> 18	15°57	26°23	13°58	26°19	15°14	24°36	20°25	1°18	17° 3	15°34	28°50	24° 1	M 8
T 9	21 8 58	16° 0'32	2 <u>2</u> °26	17°57	27°32	14°36	26°22	15°10	24°38	20°26	1°19	17°R 3	15°31	28°57	24° 3	T 9
W10	21 12 55	16°58'09	5 <b>云</b> 20	19°57	28°40	15°14	26°25	15° 6	24°40	20°26	1°19	17° 1	15°28	29° 4	24° 4	W10
T 11	21 16 52	17°55'48	18° 2	21°56	29°48	15°52	26°28	15° 1	24°42	20°26	1°20	16°57	15°24	29°11	24° 5	T 11
F 12	21 20 48	18°53'28	0 <b>≈</b> 33	23°53	0 <u>ჲ</u> 57	16°30	26°31	14°57	24°44	20°26	1°20	16°51	15°21	29°17	24° 7	F 12
S 13	21 24 45	19°51'09	12°55	25°49	2° 5	17° 9	26°35	14°52	24°46	20°27	1°21	16°42	15°18	29°24	24° 8	S 13
S 14	21 28 41	20°48'51	25° 8	27°43	3°13	17°47	26°39	14°48	24°48	20°27	1°21	16°31	15°15	29°31	24° 9	S 14
M15	21 32 38	21°46'35	7 <b>₩</b> 13	29°37	4°20	18°25	26°43	14°43	24°50	20°27	1°21	16°19	15°12	29°38	24°10	M15
T 16	21 36 34	22°44'20	19°12	1 <b>m</b> ) 28	5°28	19° 3	26°47	14°39	24°53	20°28	1°22	16° 7	15° 9	29°44	24°11	T 16
W17	21 40 31	23°42'07	1 <b>Y</b> 5	3°19	6°36	19°42	26°51	14°34	24°55	20°28	1°22	15°56	15° 5	29°51	24°12	W17
T 18	21 44 27	24°39'55	12°56	5° 8	7°43	20°20	26°55	14°30	24°57	20°29	1°22	15°47	15° 2	29°58	24°13	T 18
F 19	21 48 24	25°37'45	24°48	6°56	8°51	20°58	27° 0	14°26	24°59	20°29	1°23	15°40	14°59	0 <b>Υ</b> 4	24°13	F 19
S 20	21 52 21	26°35'37	6 <b>8</b> 43	8°42	9°58	21°36	27° 4	14°21	25° 2	20°30	1°23	15°36	14°56	0°11	24°14	S 20
S 21	21 56 17	27°33'30	18°47	10°27	11° 5	22°14	27° 9	14°17	25° 4	20°31	1°23	15°35	14°53	0°18	24°15	S 21
M22	22 0 14	28°31'26	1 <b>I</b> I 4	12°11	12°12	22°52	27°14	14°13	25° 7	20°31	1°23	15°D34	14°49	0°25	24°15	M22
T 23	22 4 10	29°29'23	13°40	13°54	13°19	23°31	27°19	14° 8	25° 9	20°32	1°23	15°R34	14°46	0°31	24°16	T 23
W24	22 8 7	0 m/27'22	26°40	15°35	14°25	24° 9	27°25	14° 4	25°12	20°33	1°24	15°34	14°43	0°38	24°16	W24
T 25	22 12 3	1°25'23	1095 6	17°14	15°32	24°47	27°30	14° 0	25°14	20°33	1°24	15°32	14°40	0°45	24°17	T 25
F 26	22 16 0	2°23'26	24° 2	18°53	16°38	25°25	27°36	13°56	25°17	20°34	1°24	15°28	14°37	0°51	24°17	F 26
S 27	22 19 56	3°21'31	8 <b>Ω</b> 26	20°30	17°45	26° 3	27°42	13°52	25°19	20°35	1°24	15°21	14°34	0°58	24°17	S 27
S 28	22 23 53	4°19'38	23°15	22° 6	18°51	26°42	27°48	13°48	25°22	20°36	1°24	15°11	14°30	1° 5	24°18	S 28
M29	22 27 50	5°17'46	8 <b>m</b> /21	23°41	19°57	27°20	27°54	13°44	25°25	20°36	1°24	15° 1	14°27	1°12	24°18	M29
T 30	22 31 46	6°15'56	23°33	25°15	21° 2	27°58	28° 0	13°40	25°28	20°37	1°24	14°50	14°24	1°18	24°18	T 30
W31	22 35 43	7 Mp 14'07	8 <b>≏</b> 42	26 <b>m</b> 47	22 <b>♀</b> 8	28€36	28M 6	13 <b>≈</b> 36	25 <b>≏</b> 30	20 <b>M</b> 38	1∏24	14 <b>才</b> 40	14 <b>×</b> 21	1 <b>Y</b> 25	24°R18	W31

Day	0	D	ğ	·	♂	4	ħ	)Å(	并	В	w v	Ç	, k
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
M 1 T 2	18n13 17 58	7n 5 4s52	21n12 1n23 20 49 1 29			18s37 0n43 18 37 0 43		8 s 59 0 n 32 8 59 0 32			22 s53 22 s44 22 53 22 44	3n50 3 53	16n 6 2s45 16 6 2 45
W 3	17 42	4s17 4 59			18 40 1 9						22 52 22 44	3 55	
T 4	17 27	9 40 4 34	19 56 1 38	3 51 0 38	18 29 1 9		17 19 1 10	9 1 0 32	16 12 1 45	8 24 12 18	22 51 22 43		16 7 2 46
F 5		14 26 3 51			18 19 1 9						22 51 22 43	4 0	
S 6	16 55	18 18 2 55	18 55 1 43	2 50 0 31	18 8 1 9	18 40 0 42	17 22 1 10	9 2 0 32	16 12 1 45	8 24 12 19	22 51 22 43	4 3	16 7 2 46
S 7	16 38	_				18 41 0 42			16 12 1 45		22 51 22 42		16 7 2 47
M 8		22 34 0 41				18 42 0 42			-		22 51 22 42	4 8	
T 9 W10	-	22 47 0n29 21 47 1 36				18 42 0 41 18 43 0 41					22 51 22 42 22 51 22 41	4 10 4 13	
T 11					17 12 1 9				-		22 51 22 41	4 15	
F 12		16 39 3 30			17 1 1 9			9 6 0 32	-		22 50 22 41	4 18	
S 13	14 53	12 56 4 12	14 31 1 41	0 45 0 5	16 49 1 9	18 46 0 40	17 32 1 10	9 7 0 32	16 13 1 45	8 23 12 20	22 49 22 40	4 20	16 7 2 48
S 14	14 35		13 49 1 38	1 16 0 1	16 38 1 9						22 48 22 40	4 23	
M15	14 17	4 15 4 58			16 26 1 9			9 9 0 32			22 47 22 40	4 25	
T 16 W17	13 58 13 39	0n20 5 2 4 54 4 52	-		16 14 1 9 16 2 1 9			9 10 0 32 9 10 0 32			22 46 22 39 22 44 22 39	4 28 4 30	
T 18	13 20	-			15 50 1 9			9 10 0 32			22 44 22 39	4 30	
F 19	13 0					18 53 0 39		9 12 0 32			22 43 22 38	4 35	
S 20	12 40	16 47 3 11	9 26 1 12	4 20 0 25	15 25 1 9	18 55 0 39	17 41 1 11	9 13 0 32	16 14 1 44	8 22 12 22	22 42 22 38	4 38	16 7 2 50
S 21	12 21	19 38 2 17	8 42 1 7	4 51 0 29	15 13 1 9	18 56 0 39	17 42 1 11	9 14 0 32	16 14 1 44	8 21 12 22	22 42 22 38	4 40	16 7 2 51
M22		21 39 1 16	7 57 1 1		15 0 1 9		-	9 15 0 31	16 14 1 44		22 42 22 37	4 43	16 7 2 51
T 23					14 48 1 9			9 16 0 31	16 15 1 44	-	22 42 22 37	4 45	
W24 T 25	11 20 10 59				14 35 1 9 14 22 1 9			9 17 0 31 9 18 0 31	16 15 1 44		22 42 22 36 22 42 22 36	4 47 4 50	
F 26		-						9 18 0 31	16 15 1 44 16 15 1 44		22 42 22 36	4 50	
S 27		14 18 4 1	4 12 0 28		-			9 20 0 31	16 16 1 44		22 41 22 35	4 55	
S 28	9 57	9 24 4 39	3 27 0 21	8 21 1 2	13 44 1 9	19 6 0 37	17 51 1 11	9 21 0 31	16 16 1 44	8 20 12 23	22 40 22 35	4 57	16 6 2 53
M29	9 35			8 51 1 7	13 30 1 9	19 8 0 37	17 52 1 11	9 22 0 31	16 16 1 44		22 38 22 35	5 0	
T 30	9 14					19 9 0 37		9 23 0 31	16 16 1 44		22 37 22 34	5 2	
W31	8n52	7 s40 4 s35	1n15 0s 2	9s49 1s17	13n 4 1n 9	19s11 0n37	17 s 55 1 s 11	9 s24 0n31	16s17 1n44	8n19 12s24	22 s36 22 s34	5n 5	16n 5 2s53

Julian Day Number = 2319904.5, Delta T = 50.68 sec Ecliptic obliquity =  $23^{\circ}29'08$ , Nutation =  $0^{\circ}00'18$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}42'35$ , Lahiri =  $18^{\circ}49'36$ Greg. Calendar

SEPTEMBER 1639 GC 00:00 UT

Day         Sid.t         ⊙         ⊅         ♥         ♀         ♂         ♀         ♠         ⅓         ♀         ₽         ♠           T 1         22 39 39         8 m 12'20         23 37         28 m 18         23 13         29 € 14         28 m 13         13°R 32         25 33         20 m 39         1°R 24         14°R 3           F 2         22 43 36         9°10'35         8 m 11         29°48         24°18         29°53         28°20         13 ≈ 28         25°36         20°40         1 m 24         14 ≈ 2           S 3         22 47 32         10° 8'51         22°20         1 m 17         25°23         0 m 31         28°26         13°24         25°39         20°41         1°24         14°2           S 4         22 51 29         11° 7'09         6	14°15 14°11 14°8 14°5 14°2 13°55 13°55 13°52 13°49	1 Y 32 1°38 1°45 1°52 1°59 2° 5 2°12 2°19 2°25 2°32	\$ 24°R18 24°C17 24°17 24°17 24°16 24°16 24°16	T 1 F 2 S 3 S 4 M 5 T 6 W 7 T 8
F 2 22 43 36 9°10'35 8mL11 29°48 24°18 29°53 28°20 13≈28 25°36 20°40 1	14°15 14°11 14°8 14°5 14°2 13°55 13°55 13°52 13°49	1°38 1°45 1°52 1°59 2° 5 2°12 2°19 2°25	24°17 24°17 24°17 24°16 24°16 24°15	F 2 S 3 S 4 M 5 T 6 W 7
S 3 22 47 32 10° 8'51 22°20 1 1 17 25°23 0 m 31 28°26 13°24 25°39 20°41 1°24 14°2 S 4 22 51 29 11° 7'09 6	14°11 14°8 14°14°5 14°2 13°59 13°55 13°52 13°49	1°45 1°52 1°59 2° 5 2°12 2°19 2°25	24°17 24°17 24°17 24°16 24°16 24°15	S 3 S 4 M 5 T 6 W 7
S 4 22 51 29 11° 7'09 6メ 4 2°44 26°28 1° 9 28°33 13°21 25°42 20°42 1°24 14°2 M 5 22 55 25 12° 5'28 19°24 4°10 27°33 1°47 28°40 13°17 25°45 20°43 1°24 14°2 T 6 22 59 22 13° 3'49 2중24 5°35 28°37 2°25 28°48 13°13 25°48 20°44 1°24 14°2 W 7 23 3 19 14° 2'12 15° 6 6°59 29°42 3° 3 28°55 13°10 25°51 20°45 1°24 14°2 T 8 23 7 15 15° 0'36 27°35 8°21 0肌46 3°42 29° 3 13° 6 25°54 20°47 1°24 14°1	14° 8 14° 5 14° 2 13°59 13°55 13°52 13°49	1°52 1°59 2° 5 2°12 2°19 2°25	24°17 24°17 24°16 24°16 24°15	S 4 M 5 T 6 W 7
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T 6 22 59 22 13° 3'49 2署24 5°35 28°37 2°25 28°48 13°13 25°48 20°44 1°24 14°2 W 7 23 3 19 14° 2'12 15° 6 6°59 29°42 3° 3 28°55 13°10 25°51 20°45 1°24 14°2 T 8 23 7 15 15° 0'36 27°35 8°21 0肌46 3°42 29° 3 13° 6 25°54 20°47 1°24 14°1	14° 2 13°59 13°55 13°55 13°52 13°49	2° 5 2°12 2°19 2°25	24°16 24°16 24°15	T 6 W 7
W 7     23     3 19     14° 2'12     15° 6     6°59     29°42     3° 3     28°55     13°10     25°51     20°45     1°24     14°2       T 8     23     7 15     15° 0'36     27°35     8°21     0ML46     3°42     29° 3     13° 6     25°54     20°47     1°24     14°1	13°59 13°55 13°52 13°49	2°12 2°19 2°25	24°16 24°15	W 7
T 8 23 7 15   15° 0'36   27°35   8°21   0ML46   3°42   29° 3   13° 6   25°54   20°47   1°24   14°1	13°55 13°52 13°49	2°19 2°25	24°15	
	3 13°52 13°49	2°25		T 8
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F 9 23 11 12 15°59'01 9 \$\infty\$53 9°42 1°49 4°20 29°10 13° 3 25°57 20°48 1°24 14°		2022	24°15	F 9
S 10 23 15 8 16°57'29 22° 2 11° 2 2°53 4°58 29°18 13° 0 26° 0 20°49 1°23 13°5		2 32	24°14	S 10
S 11   23 19 5   17°55'58   4\( \overline{H}\) 5   12°20   3°56   5°36   29°26   12°56   26° 3   20°50   1°23   13°4	13°46	2°39	24°14	S 11
M12   23 23 1   18°54'29   16° 3   13°36   4°59   6°14   29°34   12°53   26° 6   20°51   1°23   13°3	13°43	2°46	24°13	M12
T 13   23 26 58   19°53'01   27°57   14°51   6° 2   6°52   29°42   12°50   26° 9   20°53   1°23   13°1	-	2°52	24°12	T 13
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T 15   23 34 51   21°50'13   21°40   17°16   8° 7   8° 9   29°59   12°44   26°16   20°55   1°22   12°5		3° 6	24°10	T 15
F 16   23 38 47   22°48'52   3 <b>8</b> 32   18°26   9° 9   8°47   0 <b>x</b> 7   12°41   26°19   20°57   1°22   12°4		3°12	24° 9	F 16
S 17   23 42 44   23°47'33   15°29   19°34   10°10   9°25   0°16   12°38   26°22   20°58   1°21   12°3	13°27	3°19	24° 8	S 17
S 18   23 46 41   24°46'17   27°33   20°40   11°12   10°3   0°25   12°35   26°26   21°0   1°21   12°3		3°26	24° 7	S 18
M19   23 50 37   25°45′03   9 <b>I</b> I50   21°44   12°13   10°42   0°34   12°33   26°29   21° 1   1°21   12°D3		3°33	24° 5	M19
T 20   23 54 34   26°43'51   22°23   22°45   13°13   11°20   0°43   12°30   26°33   21° 2   1°20   12°R3		3°39	24° 4	T 20
W21   23 58 30   27°42'41   5©17   23°44   14°14   11°58   0°52   12°28   26°36   21° 4   1°20   12°3		3°46	24° 3	W21
T22   0 2 27   28°41'33   18°37   24°40   15°14   12°36   1° 1   12°25   26°39   21° 5   1°20   12°3		3°53	24° 1	T 22
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S 25   0 14 16   1°38'25   1 mp 31   27°10   18°12   14°31   1°30   12°19   26°50   21°10   1°18   12°1		4°13	23°57	S 25
M26   0 18 13   2°37'26   16°38   27°53   19°11   15° 9   1°39   12°16   26°53   21°12   1°18   12°		4°20	23°55	M26
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		4°26	23°53	T 27
W28   0 26 6   4°35'36   17°15   29° 7   21° 7   16°26   1°59   12°13   27° 0   21°15   1°17   11°4		4°33	23°52	W28
T29   0 30 3   5°34'44   211622   29°37   22° 4   17° 4   2° 9   12°11   27° 4   21°17   1°16   11°3		4°40	23°50	T 29
F 30   0 33 59   6♠33'53   17ML10   0ML 1   23ML 1   17Mp42   2♣19   12∞ 9   27♠ 7   21ML19   1∏15   11♣3	12 <b>×</b> 746	<b>4</b> Υ46	23 <b>8</b> 48	F 30

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S 4 M 5 T 6 W 7 T 8 F 9	7 25 7 2 6 40 6 18 5 55 5 32	22 37 0n26 21 54 1 34 20 4 2 34 17 18 3 27	2 18 0 2 59 0 3 40 0 4 20 1	6 13 35 1 57	11 56 1 9 11 42 1 9 11 29 1 9 11 15 1 9	19 19 0 36 0 19 21 0 35 19 23 0 35 19 25 0 35	18 0 1 11 18 1 1 11 18 2 1 11 18 3 1 11	9 28 0 31 9 29 0 31 9 30 0 31 9 31 0 31 9 32 0 31 9 34 0 31	16 18 1 44 16 18 1 43 16 19 1 43 16 19 1 43 16 19 1 43 16 20 1 43	8 18 12 25 8 18 12 25 8 18 12 26 8 18 12 26	22 34 22 32 22 34 22 32 22 34 22 32 22 34 22 31 22 33 22 31 22 32 22 31	5 14 5 17 5 19 5 22 5 24 5 26	16 3 2 55 16 3 2 55 16 2 2 55 16 2 2 56
S 10 S 11 M12 T 13	5 32 5 10 4 47 4 24 4 1		5 38 1 6 16 1 6 54 1	23 14 29 2 7	10 47 1 9 10 33 1 9 10 18 1 9	19 29 0 35 19 30 0 35 19 32 0 34	18 5 1 11 18 6 1 11 18 7 1 11	9 35 0 31 9 36 0 31	16 20 1 43 16 20 1 43	8 17 12 26 8 17 12 27 8 17 12 27	22 32 22 31 22 31 22 30 22 30 22 30 22 28 22 29 22 26 22 29	5 29 5 31 5 34 5 36	16 1 2 56 16 1 2 57 16 0 2 57
W14 T 15 F 16 S 17	3 38 3 15 2 51	8 0 4 28	8 6 1 8 41 2 9 15 2	55 16 13 2 27 3 16 38 2 32	9 50 1 9 9 36 1 9 9 21 1 9	19 36 0 34 19 38 0 34 19 40 0 34	18 9 1 11 18 10 1 11	9 39 0 31 9 41 0 31 9 42 0 31	16 22 1 43 16 22 1 43 16 22 1 43	8 16 12 27 8 16 12 27 8 15 12 28	22 25 22 29 22 23 22 28 22 22 22 28 22 21 22 27		15 59 2 57 15 59 2 58 15 58 2 58
S 18 M19 T 20 W21 T 22 F 23	0 31 0 8	22 13 0 15 22 24 0s52 21 26 1 57 19 14 2 59 15 53 3 52	10 50 2 11 20 2 11 48 2 12 15 2 12 40 2	25 17 52 2 47 33 18 16 2 52 40 18 39 2 57 46 19 2 3 2 53 19 25 3 7 59 19 47 3 12	8 38 1 8 8 23 1 8 8 8 1 8 7 54 1 8 7 39 1 8	19 46 0 33 19 48 0 33 19 50 0 33 19 52 0 33 19 54 0 32	18 14 1 11 18 14 1 11 18 15 1 11 18 16 1 11	9 46 0 31 9 47 0 31 9 48 0 31 9 49 0 31 9 51 0 31	16 24 1 43 16 24 1 43 16 25 1 43 16 25 1 43 16 25 1 43	8 15 12 28 8 14 12 28 8 14 12 29 8 14 12 29 8 14 12 29	22 21 22 27 22 21 22 27 22 21 22 26 22 21 22 26 22 21 22 26 22 20 22 25 22 20 22 25	6 0	15 56 2 59 15 56 2 59 15 55 2 59 15 55 3 0 15 54 3 0
S 24 S 25 M26 T 27 W28 T 29 F 30	0 39 1 3 1 26 1 50	0 40 5 1 5s 7 4 44 10 35 4 7 15 20 3 12	13 26 3 13 46 3 14 5 3 14 21 3 14 34 3	5 20 9 3 17 10 20 31 3 22 15 20 52 3 27 19 21 12 3 31 23 21 32 3 36 26 21 52 3 40 529 22s11 3 s45	7 9 1 8 6 54 1 8 6 39 1 8 6 24 1 8 6 9 1 8	19 59 0 32 20 1 0 32 20 3 0 32 20 5 0 32 20 7 0 31	18 17 1 11 18 17 1 11 18 18 1 11 18 18 1 11	9 54 0 31 9 56 0 31 9 57 0 31 9 58 0 31	16 27 1 42 16 27 1 42 16 28 1 42 16 28 1 42	8 13 12 29 8 13 12 30 8 12 12 30 8 12 12 30 8 12 12 30	22 20 22 25 22 18 22 24 22 17 22 24 22 16 22 24 22 14 22 23 22 14 22 23 22 2313 22 22	6 5	15 51 3 1 15 50 3 2

 $\label{eq:Julian Day Number = 2319935.5, Delta T = 50.62 sec} \\ Ecliptic obliquity = 23°29'08, Nutation = 0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°42'39, Lahiri = 18°49'40Greg. Calendar$ 

OCTOBER 1639 GC 00:00 UT

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Day	Sid.t	0	D	ğ	·	ð	4	ħ	)∤(	¥	Р	₽.	ß	Ç	ę,	Day
S 1	0 37 56	7 <b>₽</b> 33'05	1 <b>₹</b> 31	0 <b>M</b> .20	23M58	18 <b>M</b> )20	2 <b>/</b> 29	12°R 8	27 <b>₽</b> 11	21 <b>M</b> 20	1°R15	11°R32	12 <b>×</b> 742	<b>4</b> Υ53	23°R46	S 1
S 2	0 41 52	8°32'18	15°24	0°33	24°54	18°59	2°40	12≈ 6	27°15	21°22	1 <b>I</b> I14	11°D32	12°39	5° 0	23844	S 2
M 3	0 45 49	9°31'34	28°50	0°R39	25°49	19°37	2°50	12° 5	27°18	21°24	1°14	11 <b>~</b> 32	12°36	5° 7	23°42	M 3
T 4	0 49 45	10°30'51	11 <b>る</b> 51	0°38	26°44	20°15	3° 1	12° 3	27°22	21°26	1°13	11°R32	12°33	5°13	23°40	T 4
W 5	0 53 42	11°30'09	24°31	0°30	27°39	20°53	3°11	12° 2	27°25	21°27	1°12	11°32	12°30	5°20	23°38	W 5
T 6	0 57 39	12°29'30	6≈55	0°14	28°32	21°32	3°22	12° 1	27°29	21°29	1°12	11°29	12°26	5°27	23°36	T 6
F 7	1 1 35	13°28'52	19° 6	29 <b>॒</b> 49	29°26	22°10	3°33	12° 0	27°33	21°31	1°11	11°23	12°23	5°33	23°33	F 7
S 8	1 5 32	14°28'16	1 <b>∺</b> 8	29°17	0 <b>√</b> 18	22°48	3°44	11°59	27°37	21°33	1°10	11°15	12°20	5°40	23°31	S 8
S 9	1 9 28	15°27'42	13° 4	28°35	1°11	23°27	3°55	11°58	27°40	21°35	1° 9	11° 6	12°17	5°47	23°29	S 9
M10	1 13 25	16°27'10	24°57	27°46	2° 2	24° 5	4° 6	11°57	27°44	21°37	1° 9	10°55	12°14	5°54	23°26	M10
T 11	1 17 21	17°26'40	6 <b>Ƴ</b> 49	26°50	2°53	24°43	4°17	11°57	27°48	21°39	1°8	10°44	12°11	6° 0	23°24	T 11
W12	1 21 18	18°26'12	18°42	25°47	3°43	25°21	4°28	11°56	27°51	21°41	1° 7	10°34	12° 7	6° 7	23°21	W12
T 13	1 25 14	19°25'46	0 <b>8</b> 36	24°38	4°32	26° 0	4°39	11°56	27°55	21°43	1° 6	10°26	12° 4	6°14	23°19	T 13
F 14	1 29 11	20°25'22	12°34	23°25	5°20	26°38	4°51	11°56	27°59	21°45	1° 6	10°20	12° 1	6°20	23°16	F 14
S 15	1 33 8	21°25'00	24°38	22°11	6° 8	27°16	5° 2	11°55	28° 3	21°47	1° 5	10°17	11°58	6°27	23°14	S 15
S 16	1 37 4	22°24'40	6 <b>Ⅱ</b> 49	20°57	6°55	27°55	5°14	11°55	28° 6	21°49	1° 4	10°D15	11°55	6°34	23°11	S 16
M17	1 41 1	23°24'23	19°11	19°45	7°41	28°33	5°25	11°D55	28°10	21°51	1° 3	10°15	11°52	6°41	23° 8	M17
T 18	1 44 57	24°24'07	19547	18°37	8°26	29°11	5°37	11°55	28°14	21°53	1° 2	10°17	11°48	6°47	23° 5	T 18
W19	1 48 54	25°23'55	14°41	17°37	9°10	29°50	5°49	11°55	28°18	21°55	1° 1	10°18	11°45	6°54	23° 3	W19
T 20	1 52 50	26°23'44	27°57	16°44	9°53	0 <b>ჲ</b> 28	6° 0	11°56	28°21	21°57	1° 0	10°R18	11°42	7° 1	23° 0	T 20
F 21	1 56 47	27°23'35	11 <b>£</b> 37	16° 2	10°36	1° 6	6°12	11°56	28°25	21°59	0°59	10°17	11°39	7° 7	22°57	F 21
S 22	2 0 43	28°23'29	25°43	15°30	11°17	1°45	6°24	11°57	28°29	22° 1	0°59	10°15	11°36	7°14	22°54	S 22
S 23	2 4 40	29°23'25	10 <b>m</b> )14	15° 9	11°57	2°23	6°36	11°57	28°33	22° 3	0°58	10°10	11°32	7°21	22°51	S 23
M24	2 8 36	0M23'23	25° 6	15°D 0	12°36	3° 2	6°48	11°58	28°36	22° 5	0°57	10° 4	11°29	7°27	22°48	M24
T 25	2 12 33	1°23'24	10 <b>≏</b> 12	15° 3	13°13	3°40	7° 0	11°59	28°40	22° 7	0°56	9°58	11°26	7°34	22°45	T 25
W26	2 16 30	2°23'26	25°23	15°16	13°50	4°18	7°13	12° 0	28°44	22° 9	0°55	9°53	11°23	7°41	22°42	W26
T 27	2 20 26	3°23'30	10M28	15°39	14°25	4°57	7°25	12° 1	28°48	22°12	0°54	9°49	11°20	7°48	22°39	T 27
F 28	2 24 23	4°23'37	25°19	16°12	14°59	5°35	7°37	12° 2	28°51	22°14	0°53	9°46	11°17	7°54	22°36	F 28
S 29	2 28 19	5°23'45	9 <b>∡</b> 147	16°54	15°32	6°14	7°50	12° 3	28°55	22°16	0°52	9°D45	11°13	8° 1	22°33	S 29
S 30	2 32 16	6°23'54	23°49	17°44	16° 3	6°52	8° 2	12° 4	28°59	22°18	0°51	9°46	11°10	8° 8	22°30	S 30
M31	2 36 12	7 <b>M</b> 24'06	7 <b>云</b> 24	18 <b>≏</b> 40	16 <b>₹</b> 32	7 <b>≏</b> 30	8 <b>∡</b> 15	12≈ 6	29 <b>º</b> 3	22M20	0 <b>耳</b> 50	9 <b>∡</b> 747	11 <b>才</b> 7	8 <b>Ƴ</b> 14	22827	M31

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S 2	3 24	22 20 0	n21 14	4 58	3 31	22 48	3 54	5 24	1 7	20 14	0 31	18 20	1 11	10 2	0 31	16 30	1 42	8 11	12 31	22 13	22 21	6 21	15 48	3 2
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S 8	5 43					24 28	4 18	3 53		20 27		18 22		10 10		16 33	1 42				22 19		15 43	3 4
S 9	6 6	1 59 5	5 5 13	3 46	2 58	24 43	4 22	3 38	1 7	20 29	0 30	18 22	1 11	10 11	0 30	16 33	1 42	8 9	12 32	22 9	22 19	6 38	15 42	3 4
M10	6 29	_	56 13			24 57	4 26	3 22		20 31		18 22		10 13		16 34			12 32		22 18		15 42	3 4
T 11	6 52		34 12			25 11	4 29	3 7		20 33		18 22		10 14		16 34			12 32	_	22 18		15 41	3 4
W12 T 13	7 14		1 12   17 11	-	-	25 24 25 37	4 33 4 36	2 52 2 36		20 36 20 38		18 22 18 23		10 15 10 17		16 35 16 35			12 32		22 17 22 17		15 40 15 39	3 5
F 14		-	2 23 10	-	-	25 49	4 30	2 21		20 38		18 23		10 17		16 36				_	22 17		15 39	3 5
S 15			-	58	1 25		4 42	2 5		20 40		18 23		10 20		16 36					22 16		15 37	3 5
S 16	8 44	21 48 0	19 9	9 12	1 5	26 11	4 45	1 50	1 6	20 44	0 29	18 23	1 11	10 21	0 30	16 37	1 42	8 7	12 33	22 2	22 16	6 54	15 37	3 6
M17	,			-	-	26 22	4 48	1 35		20 47	0 29			10 22		16 38			12 33		22 15		15 36	3 6
T 18			-		0 24		4 50	1 19		20 49	0 29	-		10 24		16 38		8 6			22 15		15 35	3 6
W19 T 20				5 59	0 3	-	4 53 4 55	1 4 0 48		20 51 20 53	0 28 0 28	-		10 25 10 26		16 39 16 39	1 42 1 42	8 6 8 6			22 14		15 34 15 33	3 6
F 21				5 47	0n16 0 35		4 55	0 48		20 55	0 28	-		10 28		16 40	1 42	8 5			22 14	, .	15 33	3 7
S 22	10 54		-		0 52		4 59	0 18		20 58	0 28			10 28		16 40	1 41		12 34		22 13	, .	15 31	3 7
S 23	11 17	2 58 5	10 4	1 57	1 7	27 13	5 0	0 2	1 4	21 0	0 28	18 22	1 10	10 30	0 30	16 41	1 41	8 5	12 34	22 1	22 13	7 10	15 30	3 7
M24	11 38	2 s 3 8 4	59 4	4 41	1 21	27 20	5 2	0 s13	1 4	21 2	0 28	18 22	1 10	10 32	0 30	16 41	1 41			-	22 12	7 13	15 29	3 7
T 25	11 59	-	-	4 30	1 33		5 3	0 29		21 4	0 28	-		10 33		16 42	1 41				22 12		15 28	3 7
W26	-			1 26	1 44		5 4	0 44		21 6	0 27	-		10 34			1 41	-			22 11		15 27	3 8
T 27		1		1 27	1 52		5 4	1 0		21 8	0 27	-		10 36			1 41	-			22 11		15 27	3 8
F 28 S 29	_		-	1 33 1 44		27 41 27 45	5 5 5 5	1 15 1 30		21 11 21 13	0 27	18 20 18 20		10 37 10 38	0 30	-	1 41 1 41	-			22 10 22 10		15 26 15 25	3 8
			-																					3 6
S 30	13 41		-		-	27 48	5 5	1 46		21 15		18 20		10 40		16 45		-			22 10		15 24	3 8
M31	14s 0	20 s52 2	2n25 5	5s18	2n12	27 s51	5s 4	2 s 1	In 3	21 s17	0n27	18s19	1 s 1 0	10 s41	0n30	16 s45	1n41	8n 3	12 s 3 5	21 s58	22 s 9	7n29	15n23	3 s 8

Julian Day Number = 2319965.5, Delta T = 50.56 sec Ecliptic obliquity =  $23^{\circ}29'08$ , Nutation =  $0^{\circ}00'16$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}42'43$ , Lahiri =  $18^{\circ}49'44$ Greg. Calendar

NOVEMBER 1639 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	¥	Р	r	v	Ç	Ŗ	Day
T 1	2 40 9	8ML24'19	20 <b>궁</b> 32	19 <b>≏</b> 43	17 <b>₹</b> 0	8 <b>亞</b> 9	8 <b>∡</b> 727	12≈ 7	29 <u>₽</u> 6	22M22	0°R49	9 <b>∡</b> 749	11 <b>×7</b> 4	8 <b>Υ</b> 21	22°R23	T 1
W 2	2 44 6	9°24'33	3≈16	20°51	17°26	8°47	8°40	12° 9	29°10	22°25	0 <b>Ⅱ</b> 48	9°50	11° 1	8°28	22820	W 2
T 3	2 48 2	10°24'49	15°42	22° 3	17°51	9°26	8°53	12°11	29°14	22°27	0°47	9°R50	10°57	8°35	22°17	T 3
F 4	2 51 59	11°25'06	27°52	23°20	18°14	10° 4	9° 5	12°12	29°18	22°29	0°45	9°49	10°54	8°41	22°14	F 4
S 5	2 55 55	12°25'25	9 <b>∺</b> 52	24°39	18°35	10°43	9°18	12°14	29°21	22°31	0°44	9°46	10°51	8°48	22°10	S 5
S 6	2 59 52	13°25'45	21°46	26° 2	18°54	11°21	9°31	12°16	29°25	22°34	0°43	9°43	10°48	8°55	22° 7	S 6
M 7	3 3 48	14°26'07	3 <b>Ƴ</b> 37	27°27	19°11	11°59	9°44	12°18	29°29	22°36	0°42	9°38	10°45	9° 1	22° 4	M 7
T 8	3 7 45	15°26'30	15°29	28°54	19°26	12°38	9°57	12°21	29°32	22°38	0°41	9°34	10°42	9° 8	22° 1	T 8
W 9	3 11 41	16°26'55	27°24	0 <b>M</b> 22	19°39	13°16	10°10	12°23	29°36	22°40	0°40	9°30	10°38	9°15	21°57	W 9
T 10	3 15 38	17°27'21	9 <b>8</b> 25	1°52	19°50	13°55	10°23	12°25	29°40	22°43	0°39	9°26	10°35	9°21	21°54	T 10
F 11	3 19 34	18°27'49	21°32	3°23	19°58	14°33	10°36	12°28	29°43	22°45	0°38	9°24	10°32	9°28	21°51	F 11
S 12	3 23 31	19°28'19	3 <b>Ⅱ</b> 48	4°55	20° 5	15°12	10°49	12°30	29°47	22°47	0°37	9°D23	10°29	9°35	21°47	S 12
S 13	3 27 28	20°28'50	16°14	6°28	20° 9	15°50	11° 2	12°33	29°50	22°49	0°36	9°23	10°26	9°42	21°44	S 13
M14	3 31 24	21°29'23	28°51	8° 1	20°R10	16°29	11°15	12°36	29°54	22°52	0°35	9°24	10°23	9°48	21°41	M14
T 15	3 35 21	22°29'58	119541	9°35	20°10	17° 7	11°28	12°39	29°58	22°54	0°33	9°25	10°19	9°55	21°37	T 15
W16	3 39 17	23°30'34	24°46	11° 9	20° 7	17°46	11°42	12°42	OM 1	22°56	0°32	9°27	10°16	10° 2	21°34	W16
T 17	3 43 14	24°31'12	8 <b>N</b> 6	12°43	20° 1	18°25	11°55	12°45	0° 5	22°58	0°31	9°28	10°13	10° 8	21°31	T 17
F 18	3 47 10	25°31'52	21°45	14°17	19°53	19° 3	12° 8	12°48	0° 8	23° 1	0°30	9°R28	10°10	10°15	21°27	F 18
S 19	3 51 7	26°32'33	5 <b>m</b> /41	15°51	19°42	19°42	12°21	12°51	0°12	23° 3	0°29	9°28	10° 7	10°22	21°24	S 19
S 20	3 55 3	27°33'16	19°55	17°26	19°29	20°20	12°35	12°54	0°15	23° 5	0°28	9°28	10° 3	10°29	21°21	S 20
M21	3 59 0	28°34'01	4 <b>≏</b> 25	19° 0	19°14	20°59	12°48	12°58	0°19	23° 7	0°27	9°26	10° 0	10°35	21°18	M21
T 22	4 2 57	29°34'47	19° 6	20°35	18°56	21°37	13° 2	13° 1	0°22	23°10	0°25	9°25	9°57	10°42	21°14	T 22
W23	4 6 53	0 <b>₮</b> 35'35	3 <b>M</b> .53	22° 9	18°36	22°16	13°15	13° 5	0°25	23°12	0°24	9°24	9°54	10°49	21°11	W23
T 24	4 10 50	1°36'24	18°39	23°44	18°14	22°55	13°29	13° 9	0°29	23°14	0°23	9°23	9°51	10°55	21° 8	T 24
F 25	4 14 46	2°37'15	3 <b>₹</b> 16	25°18	17°50	23°33	13°42	13°12	0°32	23°16	0°22	9°D23	9°48	11° 2	21° 4	F 25
S 26	4 18 43	3°38'07	17°37	26°53	17°23	24°12	13°56	13°16	0°35	23°19	0°21	9°23	9°44	11° 9	21° 1	S 26
S 27	4 22 39	4°39'00	1 <b>る</b> 39	28°27	16°55	24°50	14° 9	13°20	0°39	23°21	0°20	9°23	9°41	11°15	20°58	S 27
M28	4 26 36	5°39'54	15°17	0 <b>x</b> <sup>7</sup> 1	16°25	25°29	14°23	13°24	0°42	23°23	0°19	9°24	9°38	11°22	20°55	M28
T 29	4 30 33	6°40'49	28°30	1°36	15°53	26° 8	14°36	13°28	0°45	23°25	0°18	9°24	9°35	11°29	20°52	T 29
W30	4 34 29	7 <b>.</b> ₹41'45	11≈21	3 <b>₹</b> 10	15 <b>₹</b> 20	26 <b>≏</b> 46	14 <b>×</b> 750	13≈33	0 <b>M</b> .48	23 <b>M</b> 27	0 <b>П</b> 16	9 <b>∡</b> 124	9 <b>∡</b> ³32	11 <b>Y</b> 36	20848	W30
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Day	0	D		ğ	5	ç	)	С	7		4	ħ	<u> </u>	)	<del>j</del> (	4	7	E	2	n	v	Ç	لح	5
	decl	decl la	at	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	14 s20	18 s32	3n25	5 s40	2n13	27 s53	5 s 3	2 s17	1n 3	21 s19	0n27	18s19	1 s 1 0	10 s42	0n30	16 s46	1n41	8n 2	12 s35	21 s58	22 s 9	7n31	15n22	3 s 9
W 2	14 39	15 22	4 12	6 5	2 14	27 54	5 2	2 32	1 3	21 21	0 27	18 18	1 10	10 44	0 30	16 47	1 41	8 2	12 35	21 58	22 8	7 33	15 21	3 9
T 3	14 58	11 36	4 46	6 33	2 13	27 55	5 1	2 47	1 2	21 23	0 26	18 18	1 10	10 45	0 30	16 47	1 41	8 2	12 35	21 58	22 8	7 36	15 20	3 9
F 4	15 17	7 26	5 7	7 2	2 12	27 56	4 59	3 3	1 2	21 25	0 26	18 17	1 10	10 46	0 30	16 48	1 41	8 2	12 35	21 58	22 7	7 38	15 19	3 9
S 5	15 36	3 3	5 13	7 34	2 9	27 55	4 57	3 18	1 2	21 27	0 26	18 16	1 10	10 48	0 30	16 48	1 41	8 1	12 35	21 57	22 7	7 40	15 18	3 9
S 6	15 54	1n25	5 7	8 7	2 6	27 54	4 54	3 33	1 2	21 29	0 26	18 16	1 10	10 49	0 30	16 49	1 41	8 1	12 35	21 57	22 6	7 43	15 17	3 9
M 7	16 12	5 49	4 47	8 40	2 3	27 53	4 51	3 48	1 2	21 31	0 26	18 15	1 10	10 50	0 30	16 49	1 41	8 1	12 35	21 56	22 6	7 45	15 16	3 9
T 8	16 30	10 1	4 14	9 15	1 59	27 51	4 48	4 4	1 1	21 33	0 26	18 15	1 9	10 52	0 30	16 50	1 41	8 1	12 35	21 56	22 6	7 47	15 15	3 10
W 9	16 47	13 51	3 31	9 50	1 54	27 48	4 44	4 19	1 1	21 35	0 26	18 14	1 9	10 53	0 30	16 51	1 41	8 0	12 35	21 55	22 5	7 49	15 14	3 10
T 10	17 4	17 9	2 38	10 26	1 49	27 44	4 40	4 34	1 1	21 37		18 13	1 9	10 54	0 30	16 51	1 41	8 0		21 55		7 52	15 13	3 10
F 11	17 21	19 44	1 37	11 2	1 44	27 40	4 35	4 49	1 1	21 39	0 26	18 12	1 9	10 55	0 30	16 52	1 41	8 0	12 35	21 54	22 4	7 54	15 12	3 10
S 12	17 38	21 27	0 31	11 39	1 38	27 36	4 30	5 4	1 0	21 41	0 25	18 12	1 9	10 57	0 30	16 52	1 41	8 0	12 35	21 54	22 4	7 56	15 11	3 10
S 13	17 54	22 9	0s38	12 15	1 32	27 30	4 24	5 19	1 0	21 43	0 25	18 11	1 9	10 58	0 30	16 53	1 41	7 59	12 35	21 54	22 3	7 58	15 10	3 10
M14	18 10	21 43	1 46	12 51	1 26	27 24	4 18	5 34	1 0	21 45	0 25	18 10	1 9	10 59	0 30	16 53	1 41	7 59	12 35	21 54	22 3	8 1	15 9	3 10
T 15	18 26	20 10	2 49	13 27	1 20	27 17	4 11	5 49	1 0	21 47	0 25	18 9	1 9	11 0	0 30	16 54	1 41	7 59	12 35	21 54	22 2	8 3	15 8	3 10
W16	18 41	17 31	3 45	14 2	1 13	27 10	4 3	6 4	0 59	21 49	0 25	18 8	1 9	11 2	0 30	16 55	1 41	7 59	12 35	21 55	22 2	8 5	15 7	3 11
T 17	18 56	13 55	4 31	14 37	1 7	27 1	3 55	6 19	0 59	21 51	0 25	18 7	1 9	11 3	0 30	16 55	1 41	7 58	12 35	21 55	22 1	8 7	15 6	3 11
F 18	19 11	9 31	5 2	15 12	1 0	26 52	3 47	6 34	0 59	21 53	0 25	18 6	1 9	11 4	0 30	16 56	1 41	7 58	12 35	21 55	22 1	8 10	15 6	3 11
S 19	19 25	4 33	5 16	15 46	0 53	26 42	3 38	6 49	0 59	21 55	0 25	18 5	1 9	11 5	0 30	16 56	1 41	7 58	12 35	21 55	22 1	8 12	15 5	3 11
S 20	19 39	0 s46	5 11	16 19	0 46	26 31	3 28	7 4	0 58	21 57	0 25	18 4	1 9	11 7	0 30	16 57	1 41	7 58	12 35	21 55	22 0	8 14	15 4	3 11
M21	19 53	6 9	4 47	16 52	0 40	26 20	3 18	7 18	0 58	21 58	0 24	18 3	1 9	11 8	0 30	16 57	1 41	7 58	12 35	21 55	22 0	8 16	15 3	3 11
T 22	20 6	11 15	4 4	17 24	0 33	26 8	3 7	7 33	0 58	22 0	0 24	18 2	1 9	11 9	0 30	16 58	1 41	7 57	12 35	21 54	21 59	8 19	15 2	3 11
W23	20 19	15 44	3 4	17 56	0 26	25 55	2 56	7 48	0 58	22 2	0 24	18 1	1 9	11 10	0 30	16 59	1 41	7 57	12 35	21 54	21 59	8 21	15 1	3 11
T 24	20 31	19 13	1 53	18 26	0 19	25 41	2 44	8 2	0 57	22 4	0 24	18 0	1 9	11 11	0 30	16 59	1 41	7 57	12 35	21 54	21 58	8 23	15 0	3 11
F 25	20 43	21 24	0 34	18 56	0 12	25 26	2 31	8 17	0 57	22 5	0 24	17 59	1 9	11 12	0 30	17 0	1 41				21 58	8 25	14 59	3 11
S 26	20 55	22 9	0n46	19 25	0 5	25 11	2 18	8 31	0 57	22 7	0 24	17 58	1 9	11 14	0 30	17 0	1 41	7 57	12 35	21 54	21 57	8 28	14 58	3 11
S 27	21 7	21 28	2 1	19 53	0s 2	24 55	2 5	8 46	0 56	22 9	0 24	17 57	1 9	11 15	0 30	17 1	1 41	7 57	12 35	21 54	21 57	8 30	14 57	3 11
M28	21 17	19 31	3 6	20 20	0 9	24 38	1 51	9 0	0 56	22 11	0 24	17 56		11 16		17 1	1 41	7 56	12 35	21 54	21 56	8 32	14 56	3 11
T 29	21 28	16 35	4 0	20 46	0 15	24 20	1 36	9 14	0 56	22 12	0 24	17 54	1 9	11 17	0 30	17 2	1 41	7 56	12 35	21 54	21 56	8 34	14 56	3 11
W30	21 s38	$12\mathrm{s}55$	4n40	21 s11	0 s22	24s 2	1 s22	9 s29	0n55	22 s14	0n24	17s53	1s 9	11 s18	0n30	17s 2	1n41	7n56	12 s35	21 s54	21 s55	8n36	14n55	3 s11

 $\label{eq:Julian Day Number = 2319996.5, Delta T = 50.50 sec} \\ Ecliptic obliquity = 23°29'07, Nutation = 0°00'15, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°42'48, Lahiri = 18°49'48Greg. Calendar$ 

DECEMBER 1639 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)મું(	¥	Р	n	Ω	Ç	ķ	Day
T 1	4 38 26	8 <b>×</b> 742'41	23≈51	4 <b>×</b> 744	14°R46	27 <b>Ω</b> 25	15🕶 3	13≈37	0 <b>M</b> .52	23MJ30	0°R15	9 <b>×</b> <sup>7</sup> 24	9 <b>×</b> <sup>1</sup> 29	11 <b>Y</b> 42	20°R45	T 1
F 2	4 42 22	9°43'38	6 <del>)(</del> 4	6°18	14 7 11	28° 3	15°17	13°41	0°55	23°32	0 <b>Ⅱ</b> 14	9°24	9°25	11°49	20842	F 2
S 3	4 46 19	10°44'36	18° 6	7°52	13°35	28°42	15°31	13°46	0°58	23°34	0°13	9°24	9°22	11°56	20°39	S 3
												-				
S 4	4 50 15	11°45'35	29°59 11 <b>Y</b> 50	9°27 11° 1	12°59	29°21	15°44	13°50	1° 1 1° 4	23°36 23°38	0°12	9°25	9°19	12° 2 12° 9	20°36 20°33	S 4
M 5 T 6	4 54 12 4 58 8	12°46'34 13°47'34	23°43	12°35	12°23 11°46	29°59 0 <b>M</b> .38	15°58 16°11	13°55 13°59	1° 4	23°38 23°41	0°11 0°10	9°25 9°25	9°16 9°13	12° 9	20°33	M 5 T 6
W 7	5 2 5	13 47 34 14°48'34	5 <b>8</b> 41	12 33 14° 9	11°10	1°17	16°25	13 39 14° 4	1°10	23°43	0° 9	9°26	9° 9	12°10	20°27	W 7
T 8	5 6 1	15°49'35	17°47	15°44	10°34	1°55	16°39	14° 9	1°13	23°45	0° 8	9°26	9° 6	12°29	20°24	T 8
F 9	5 9 58	16°50'37	0 <b>Π</b> 5	17°18	10° 34	2°34	16°52	14°14	1°16	23°47	0° 6	9°27	9° 3	12°36	20°21	F 9
S 10	5 13 55	17°51'40	12°36	18°53	9°26	3°13	17° 6	14°19	1°19	23°49	0° 5	9°R27	9° 0	12°43	20°18	S 10
			25°21	20°27					1°22	23°51		9°27			20°16	S 11
S 11 M12	5 17 51 5 21 48	18°52'43 19°53'47	8 <b>9</b> 21	20°27 22° 2	8°53 8°22	3°51 4°30	17°20 17°33	14°24 14°29	1°24	23°53	0° 4 0° 3	9°27	8°57 8°54	12°49 12°56	20°18 20°13	M12
T 13	5 25 44	20°54'52	21°34	23°37	7°53	5° 9	17°33	14°29	1°24	23°55	0° 3	9°24	8°54 8°50	12°36	20°13 20°10	T 13
W14	5 29 41	20° 34° 32 21° 55' 57	5Ω 1	25°12	7°25	5°47	17 47 18° 1	14°34 14°39	1°30	23°57	0° 1	9°23	8°47	13° 9	20° 7	W14
T 15	5 33 37	21°53'37' 22°57'03	18°39	26°47	7° 0	6°26	18°14	14°45	1°33	23°59	0° 0	9°21	8°44	13°16	20° 5	T 15
F 16	5 37 34	23°58'10	2 m) 29	28°23	6°37	7° 5	18°28	14°50	1°35	24° 1	29859	9°19	8°41	13°23	20° 2	F 16
S 17	5 41 31	24°59'18	16°28	29°59	6°16	7°43	18°41	14°55	1°38	24° 3	29°58	9°19	8°38	13°29	19°59	S 17
S 18	5 45 27	26° 0'26	ე <u>Ω</u> 34	1중34	5°57	8°22	18°55	15° 1	1°41	24° 5	29°57	9°D18	8°35	13°36	19°57	S 18
M19	5 49 24	20 026 27° 1'35	14°47	3°10	5°40	9° 1	18 33 19° 9	15° 6	1°43	24° 7	29°56	9°19	8°31	13°43	19°54	M19
T 20	5 53 20	27 133 28° 2'45	29° 4	4°47	5°26	9°39	19°22	15°12	1°46	24° 9	29°55	9°20	8°28	13°50	19°52	T 20
W21	5 57 17	29° 3'55	13 <b>M</b> 22	6°23	5°15	10°18	19°36	15°18	1°48	24°11	29°54	9°22	8°25	13°56	19°50	W21
T 22	6 1 13	0 <del>ට</del> 5'06	27°38	8° 0	5° 6	10°57	19°49	15°23	1°51	24°13	29°53	9°23	8°22	14° 3	19°47	T 22
F 23	6 5 10	1° 6'17	11 <b>×</b> 748	9°36	5° 0	11°36	20° 3	15°29	1°53	24°15	29°52	9°R23	8°19	14°10	19°45	F 23
S 24	6 9 6	2° 7'29	25°49	11°13	4°56	12°14	20°17	15°35	1°55	24°17	29°51	9°22	8°15	14°16	19°43	S 24
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Julian Day Number = 2320026.5, Delta T = 50.44 sec Ecliptic obliquity = 23°29'06, Nutation = 0°00'15, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°42'52, Lahiri = 18°49'52Greg. Calendar