

# Astrodienst Ephemeris Tables for the year 1644

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 1644 GC 00:00 UT

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Day	Sid.t	0	D	ğ	·	ď	4	ħ	)∤(	并	Р	n	v	Ç	ę,	Day
F 1	6 40 45	10중17'58	27 m/21	23 <b>×</b> 756	17 <b>云</b> 40	16 <b>∡</b> 747	15 <b>Y</b> 52	1 <b>Υ</b> 39	19 <b>M</b> .53	2 <b>₹</b> 58	3°R37	19 <b>m</b> 28	20 <b>m</b> 28	27 <b>m</b> )47	16°R28	F 1
S 2	6 44 42	11°19'08	9 <u>0</u> 9	25°24	18°55	17°31	15°57	1°42	19°56	3° 0	3耳36	19°R28	20°25	27°54	16 <b>Ⅱ</b> 25	S 2
S 3	6 48 38	12°20'18	21° 1	26°53	20°11	18°15	16° 2	1°45	19°58	3° 2	3°36	19°28	20°21	28° 0	16°21	S 3
M 4	6 52 35	13°21'28	3M 2	28°23	21°26	18°59	16° 6	1°48	20° 1	3° 4	3°35	19°26	20°18	28° 7	16°18	M 4
T 5	6 56 31	14°22'38	15°19	29°53	22°41	19°42	16°11	1°52	20° 4	3° 6	3°34	19°21	20°15	28°14	16°15	T 5
W 6	7 0 28	15°23'47	27°54	1 <b>る</b> 23	23°57	20°26	16°17	1°55	20° 6	3° 7	3°33	19°14	20°12	28°20	16°12	W 6
T 7	7 4 24	16°24'57	10 <b>∡</b> 752	2°54	25°12	21°10	16°22	1°59	20° 9	3° 9	3°32	19° 5	20° 9	28°27	16° 9	T 7
F 8	7 8 21	17°26'07	24°13	4°25	26°28	21°54	16°28	2° 2	20°11	3°11	3°31	18°54	20° 6	28°34	16° 5	F 8
S 9	7 12 18	18°27'16	7 <b>궁</b> 55	5°57	27°43	22°38	16°33	2° 6	20°13	3°13	3°31	18°44	20° 2	28°40	16° 2	S 9
S 10	7 16 14	19°28'25	21°57	7°30	28°58	23°22	16°39	2°10	20°16	3°14	3°30	18°33	19°59	28°47	15°59	S 10
M11	7 20 11	20°29'34	6≈12	9° 3	0≈14	24° 6	16°45	2°13	20°18	3°16	3°29	18°25	19°56	28°53	15°56	M11
T 12	7 24 7	21°30'42	20°36	10°36	1°29	24°51	16°51	2°17	20°20	3°18	3°28	18°19	19°53	29° 0	15°54	T 12
W13	7 28 4	22°31'49	5 <b>)</b> 2	12°10	2°44	25°35	16°58	2°21	20°23	3°19	3°28	18°16	19°50	29° 7	15°51	W13
T 14	7 32 0	23°32'55	19°27	13°45	4° 0	26°19	17° 5	2°26	20°25	3°21	3°27	18°D16	19°46	29°13	15°48	T 14
F 15	7 35 57	24°34'01	3 <b>℃</b> 45	15°20	5°15	27° 3	17°11	2°30	20°27	3°23	3°26	18°16	19°43	29°20	15°45	F 15
S 16	7 39 53	25°35'05	17°55	16°55	6°30	27°48	17°18	2°34	20°29	3°24	3°26	18°17	19°40	29°27	15°43	S 16
S 17	7 43 50	26°36'09	1 <b>8</b> 56	18°31	7°46	28°32	17°25	2°38	20°31	3°26	3°25	18°R17	19°37	29°33	15°40	S 17
M18	7 47 47	27°37'11	15°46	20° 8	9° 1	29°16	17°33	2°43	20°33	3°27	3°25	18°16	19°34	29°40	15°37	M18
T 19	7 51 43	28°38'13	29°27	21°45	10°16	0중 1	17°40	2°47	20°35	3°29	3°24	18°12	19°31	29°47	15°35	T 19
W20	7 55 40	29°39'13	12 <b>Ⅱ</b> 57	23°23	11°31	0°45	17°47	2°52	20°37	3°30	3°23	18° 6	19°27	29°53	15°33	W20
T 21	7 59 36	0≈40'12	26°15	25° 2	12°46	1°30	17°55	2°57	20°39	3°32	3°23	17°58	19°24	29°59	15°30	T 21
F 22	8 3 33	1°41'11	99521	26°41	14° 2	2°14	18° 3	3° 2	20°40	3°33	3°22	17°50	19°21	0요 7	15°28	F 22
S 23	8 7 29	2°42'08	22°15	28°21	15°17	2°59	18°11	3° 6	20°42	3°34	3°22	17°41	19°18	0°13	15°26	S 23
S 24	8 11 26	3°43'04	4 <b>Ω</b> 54	0≈ 1	16°32	3°43	18°19	3°11	20°44	3°36	3°21	17°34	19°15	0°20	15°24	S 24
M25	8 15 22	4°44'00	17°20	1°42	17°47	4°28	18°28	3°16	20°46	3°37	3°21	17°28	19°12	0°27	15°22	M25
T 26	8 19 19	5°44'54	29°33	3°24	19° 2	5°12	18°36	3°22	20°47	3°38	3°20	17°24	19° 8	0°33	15°20	T 26
W27	8 23 16	6°45'47	11 <b>m</b> 35	5° 7	20°17	5°57	18°45	3°27	20°49	3°40	3°20	17°D22	19° 5	0°40	15°18	W27
T 28	8 27 12	7°46'40	23°28	6°50	21°32	6°42	18°53	3°32	20°50	3°41	3°19	17°22	19° 2	0°46	15°16	T 28
F 29	8 31 9	8°47'31	5 <b>Ω</b> 17	8°34	22°48	7°27	19° 2	3°37	20°52	3°42	3°19	17°23	18°59	0°53	15°14	F 29
S 30	8 35 5	9°48'22	17° 4	10°18	24° 3	8°11	19°11	3°43	20°53	3°43	3°19	17°25	18°56	1° 0	15°12	S 30
S 31	8 39 2	10≈49'12	28 <b>£</b> 55	12≈ 4	25≈18	8 <b>궁</b> 56	19 <b>Y</b> 20	<b>3</b> Υ48	20 <b>M</b> 54	3 <b>∡</b> 144	3耳18	17 <b>m</b> )27	18 <b>m</b> 52	1₾ 6	15 <b>I</b> I11	S 31

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F 1 S 2	23 s 5 23 0	-		3 6 23 s19 1 s 1 23 s 13 23 11 1 3 23				17 s27 0n19 17 27 0 19	19s13 1n36 19 13 1 36	9n26 11 s41 9 26 11 41	4n11 3n4 4 11 3 4		16n56 5 s 5 4 16 5 5 5 5 4
S 3 M 4 T 5 W 6		9 15 3 31	23 56 0 1 24 3 0	34 22 41 1 8 23	22 0 20 26 0 21	5 8 1 17 5 10 1 16 5 12 1 16 5 15 1 16	1 29 2 24 1 28 2 24	17 29 0 19	19 14 1 36	9 26 11 41 9 26 11 40 9 26 11 40 9 26 11 40	4 11 3 5 4 12 3 5 4 13 3 5 4 16 3 5	1 1 24 2 1 22	16 55 5 54 16 55 5 53 16 55 5 53 16 55 5 53
T 7 F 8 S 9	22 13	18 28 4 47	3 24 18 0 : 7 24 21 1	54 22 5 1 12 23 0 21 52 1 14 23	37 0 23 40 0 24	5 17 1 16 5 19 1 15 5 22 1 15	1 23 2 23 1 21 2 23		19 15 1 37 19 15 1 37	9 26 11 40 9 26 11 39 9 26 11 39	4 20 3 5 4 24 3 5 4 28 3 5	6 1 16 7 1 14	16 54 5 53 16 54 5 53 16 54 5 53
S 10 M11 T 12 W13	22 4 21 55 21 46 21 36	15 26 3 26 12 24 2 23	24 20 1	6 21 38 1 15 23 11 21 23 1 16 23 17 21 8 1 18 23 22 20 52 1 19 23	46 0 25 48 0 26		1 19 2 23 1 18 2 23 1 16 2 22 1 14 2 22	17 33 0 19 17 34 0 19	19 16 1 37	9 26 11 39 9 27 11 39 9 27 11 39 9 27 11 38	4 32 3 5 4 35 4 4 38 4 4 39 4	0 1 11	16 54 5 53 16 54 5 52 16 54 5 52 16 54 5 52
	21 26 21 15 21 4	4 17 0s 6 0n14 1 22 4 41 2 33	24 7 1	36 20 0 1 22 23	55 0 28 56 0 28	5 35 1 14 5 38 1 13 5 41 1 13	1 12 2 22 1 10 2 22 1 8 2 22	17 36 0 19		9 27 11 38 9 27 11 38 9 27 11 38	4 39 4	-	16 54 5 52 16 54 5 52 16 53 5 51
S 17 M18 T 19 W20	20 52 20 41 20 28 20 16	12 26 4 20 15 19 4 52	23 41 1 4 23 29 1	40 19 42 1 23 23 44 19 23 1 24 23 47 19 4 1 25 23 51 18 44 1 26 24	58 0 30	5 44 1 13 5 47 1 12 5 50 1 12 5 53 1 12	1 7 2 21 1 5 2 21 1 3 2 21 1 1 2 21	17 37 0 19 17 38 0 19	19 18 1 37 19 18 1 37	9 27 11 37 9 27 11 37 9 27 11 37 9 28 11 37	4 38 4 4 39 4 4 41 4 1 4 43 4 1	8 0 58 0 0 56	16 53 5 51 16 53 5 51 16 53 5 51 16 53 5 50
T 21 F 22 S 23	19 49 19 36	18 23 4 47 17 28 4 14	22 46 1 :	54 18 23 1 26 24 56 18 2 1 27 24 59 17 41 1 28 24	0 0 32 0 0 32 0 0 33	5 56 1 12 6 0 1 11 6 3 1 11	0 54 2 20	17 39 0 19 17 40 0 19	19 19 1 37 19 19 1 37	9 28 11 36 9 28 11 36 9 28 11 36	4 46 4 1 4 49 4 1 4 53 4 1	3 0 50 5 0 49	16 53 5 50 16 53 5 50 16 53 5 50
S 24 M25 T 26 W27	19 21 19 7 18 52 18 37	15 41 3 30 13 12 2 36 10 10 1 35 6 45 0 31	5 21 48 2 5 21 26 2	0 17 19 1 28 23 2 16 56 1 29 23 3 16 33 1 29 23 4 16 10 1 30 23	59 0 34 58 0 35	6 6 1 11 6 10 1 11 6 13 1 10 6 17 1 10	0 50 2 20 0 48 2 20		19 19 1 37 19 20 1 37	9 28 11 36 9 28 11 35 9 29 11 35 9 29 11 35	4 55 4 1 4 58 4 1 4 59 4 1 5 0 4 2	7 0 45 8 0 43	16 53 5 49 16 54 5 49 16 54 5 49 16 54 5 49
T 28 F 29 S 30	18 21 18 6 17 50	0s38 1 36 4 20 2 35	19 41 2	4 15 46 1 30 23 4 15 22 1 30 23 4 14 57 1 30 23	53 0 37 51 0 38	6 24 1 10 6 27 1 9	0 41 2 19 0 39 2 19	17 42 0 19 17 42 0 19	19 20 1 37 19 20 1 37 19 20 1 37	9 29 11 35 9 29 11 34 9 29 11 34	5 0 4 2 4 59 4 2 4 59 4 2	2 0 37 3 0 36	16 54 5 48 16 54 5 48 16 54 5 48
S 31	17 s33	7 s53 3n28	3 19s11 2s	s 3   14s32   1s30   <mark>23</mark>	49 0s38	6n31 1s 9	0s36 2s19	17 s43 0n19	19s21 1n37	9n29 11s34	4n58 4n2	5 0n34	16n54 5 s47

Julian Day Number = 2321518.5, Delta T = 47.52 sec

Ecliptic obliquity =  $23^{\circ}28'58$ , Nutation = -  $0^{\circ}00'02$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}46'17$ , Lahiri =  $18^{\circ}53'17$ Greg. Calendar

FEBRUARY 1644 GC 00:00 UT

	WALL 1	LUTT UC													00.0	0 0.
Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	并	Р	S.	v	Ç	Ŗ	Day
M 1	8 42 58	11≈50'01	10 <b>M</b> .56	13≈50	26≈33	9 <b>ප</b> 41	19 <b>Y</b> 29	3 <b>Ƴ</b> 54	20 <b>M</b> 56	3 <b>∡</b> 146	3°R18	17°R27	18 <b>M</b> )49	1 <b>₽</b> 13	15°R 9	M 1
T 2	8 46 55	12°50'48	23°10	15°36	27°48	10°26	19°39	3°59	20°57	3°47	3耳18	17 <b>m</b> 27	18°46	1°20	15 <b>II</b> 8	T 2
W 3	8 50 51	13°51'35	5 <b>√</b> 144	17°24	29° 3	11°11	19°48	4° 5	20°58	3°48	3°17	17°25	18°43	1°26	15° 6	W 3
T 4	8 54 48	14°52'21	18°40	19°12	0 <b>∺</b> 18	11°56	19°58	4°11	20°59	3°49	3°17	17°21	18°40	1°33	15° 5	T 4
F 5	8 58 45	15°53'06	2る 2	21° 0	1°33	12°41	20° 8	4°17	21° 0	3°50	3°17	17°17	18°37	1°40	15° 4	F 5
S 6	9 241	16°53'50	15°50	22°49	2°48	13°26	20°18	4°22	21° 1	3°51	3°17	17°12	18°33	1°46	15° 3	S 6
S 7	9 638	17°54'33	0≈ 3	24°39	4° 2	14°11	20°28	4°28	21° 2	3°52	3°16	17° 7	18°30	1°53	15° 2	S 7
M 8	9 10 34	18°55'14	14°36	26°29	5°17	14°56	20°38	4°34	21° 3	3°53	3°16	17° 3	18°27	2° 0	15° 1	M 8
T 9	9 14 31	19°55'54	29°22	28°19	6°32	15°41	20°48	4°40	21° 4	3°53	3°16	17° 1	18°24	2° 6	15° 0	T 9
W10	9 18 27	20°56'32	14 <b>)</b> 15	0 <b>米</b> 9	7°47	16°26	20°58	4°46	21° 5	3°54	3°16	17°D 0	18°21	2°13	14°59	W10
T 11	9 22 24	21°57'09	29° 6	1°58	9° 2	17°12	21° 9	4°53	21° 6	3°55	3°16	17° 0	18°18	2°20	14°58	T 11
F 12	9 26 20	22°57'43	13 <b>Y</b> 48	3°48	10°17	17°57	21°20	4°59	21° 6	3°56	3°16	17° 1	18°14	2°26	14°57	F 12
S 13	9 30 17	23°58'17	28°17	5°37	11°31	18°42	21°30	5° 5	21° 7	3°57	3°16	17° 3	18°11	2°33	14°57	S 13
S 14	9 34 14	24°58'48	12828	7°25	12°46	19°27	21°41	5°11	21° 8	3°57	3°15	17° 4	18° 8	2°39	14°56	S 14
M15	9 38 10	25°59'17	26°21	9°12	14° 1	20°13	21°52	5°18	21° 8	3°58	3°15	17°R 4	18° 5	2°46	14°56	M15
T 16	9 42 7	26°59'45	9耳55	10°57	15°16	20°58	22° 3	5°24	21° 9	3°59	3°D15	17° 4	18° 2	2°53	14°56	T 16
W17	9 46 3	28° 0'11	23°12	12°40	16°30	21°43	22°14	5°31	21° 9	3°59	3°15	17° 2	17°58	2°59	14°55	W17
T 18	9 50 0	29° 0'34	69512	14°20	17°45	22°29	22°25	5°37	21° 9	4° 0	3°15	17° 0	17°55	3° 6	14°55	T 18
F 19	9 53 56	0₩ 0'56	18°58	15°58	18°59	23°14	22°37	5°44	21°10	4° 0	3°16	16°58	17°52	3°13	14°55	F 19
S 20	9 57 53	1° 1'16	1 <b>Q</b> 30	17°32	20°14	23°59	22°48	5°50	21°10	4° 1	3°16	16°55	17°49	3°19	14°D55	S 20
S 21	10 149	2° 1'34	13°51	19° 2	21°29	24°45	23° 0	5°57	21°10	4° 1	3°16	16°53	17°46	3°26	14°55	S 21
M22	10 5 46	3° 1'50	26° 1	20°27	22°43	25°30	23°11	6° 4	21°10	4° 2	3°16	16°51	17°43	3°33	14°55	M22
T 23	10 9 43	4° 2'05	8Mp 3	21°47	23°58	26°16	23°23	6°11	21°11	4° 2	3°16	16°50	17°39	3°39	14°55	T 23
W24	10 13 39	5° 2'18	19°58	23° 1	25°12	27° 1	23°35	6°17	21°R11	4° 2	3°16	16°D50	17°36	3°46	14°56	W24
T 25	10 17 36	6° 2'28	1 <b>≏</b> 48	24° 8	26°26	27°47	23°46	6°24	21°11	4° 3	3°16	16°51	17°33	3°53	14°56	T 25
F 26	10 21 32	7° 2'38	13°36	25° 8	27°41	28°32	23°58	6°31	21°10	4° 3	3°16	16°51	17°30	3°59	14°57	F 26
S 27	10 25 29	8° 2'45	25°25	26° 1	28°55	29°18	24°10	6°38	21°10	4° 3	3°17	16°52	17°27	4° 6	14°57	S 27
S 28	10 29 25	9° 2'51	7 <b>M</b> .18	26°45	0Υ 9	0≈ 4	24°22	6°45	21°10	4° 4	3°17	16°53	17°23	4°13	14°58	S 28
M29	10 33 22	10 <b>米</b> 2'55	19 <b>M</b> .18	27 <b>米</b> 21	1 <b>Υ</b> 24	0≈49	24 <b>Y</b> 35	6 <b>Ƴ</b> 52	21 <b>M</b> 10	4 <b>才</b> 4	3 <b>Ⅱ</b> 17	16 <b>m</b> /54	17 <b>m</b> 20	4 <b>₽</b> 19	14∏59	M29

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M 1	17 s16	11 s 9 4n12	18s39 2s 2	14s 6 1s30	23 s47 0 s39	6n35 1s 9	0s34 2s18	17 s43 0n19	19s21 1n38	9n30 11s34	4n58	4n26	0n32 16n5	4 5 s47
T 2	16 59	14 0 4 45	18 5 2 0	13 40 1 30	23 44 0 40	6 38 1 9	0 32 2 18	17 43 0 19	19 21 1 38	9 30 11 33	4 58	4 27 (	0 30 16 5	4 5 47
W 3	-		17 31 1 57	-	23 41 0 40	6 42 1 8		17 44 0 19		9 30 11 33			0 28 16 5	
T 4	16 24		16 54 1 54		23 38 0 41	6 46 1 8	0 27 2 18	17 44 0 19	19 21 1 38	9 30 11 33	5 0 4	4 30	0 26 16 5	5 46
F 5			16 16 1 51		23 34 0 42	6 50 1 8	-	17 44 0 19		9 31 11 33	-	-	0 24 16 5	
S 6	15 48	17 59 4 35	15 37 1 47	11 53 1 29	23 30 0 42	6 54 1 8	0 22 2 18	17 45 0 19	19 21 1 38	9 31 11 32	5 4	4 32 (	0 23 16 5	5 5 45
S 7	15 30	16 26 3 50	14 56 1 42	11 26 1 29	23 26 0 43	6 58 1 7	0 19 2 18	17 45 0 19	19 22 1 38	9 31 11 32	5 6	4 33 (	0 21 16 5	5 5 45
M 8	15 11	13 47 2 49	14 14 1 37	10 58 1 28	23 22 0 44	7 2 1 7	0 17 2 17	17 45 0 19	19 22 1 38	9 31 11 32	5 7 4	4 35 (	0 19 16 5	6 5 45
T 9	14 52	10 13 1 35	13 30 1 31	10 29 1 28	23 18 0 44	7 6 1 7	0 14 2 17	17 45 0 19	19 22 1 38	9 31 11 31	5 8 4	4 36 (	0 17 16 5	6 5 44
W10	14 32	5 59 0 15	12 45 1 24		23 13 0 45	7 10 1 7	0 12 2 17	17 45 0 19	19 22 1 38	9 32 11 31	5 9 4	4 37 (	0 15 16 5	6 5 44
T 11	14 13		11 59 1 17		23 8 0 46	7 14 1 7			19 22 1 38	9 32 11 31			0 13 16 5	
F 12	13 53		11 12 1 9			7 18 1 6	0 7 2 17	17 46 0 19	19 22 1 38	9 32 11 31		4 40 (	0 11 16 5	7 5 43
S 13	13 33	7 38 3 28	10 25 1 1	8 34 1 25	22 57 0 47	7 23 1 6	0 4 2 17	17 46 0 19	19 22 1 38	9 33 11 30	5 7	4 41 (	0 10 16 5	7 5 43
S 14	13 13	11 28 4 20	9 36 0 51	8 5 1 24	22 51 0 48	7 27 1 6	0 1 2 17	17 46 0 19	19 22 1 38	9 33 11 30	5 7	4 42	0 8 16 5	7 5 43
M15	12 53	14 35 4 56	8 47 0 41	7 35 1 23	22 45 0 48	7 31 1 6	0n 1 2 16	17 46 0 19	19 22 1 38	9 33 11 30	5 7 4	4 43 (	0 6 16 5	7 5 42
T 16	12 32	16 49 5 13	7 57 0 31	7 5 1 22	22 39 0 49	7 35 1 6	0 4 2 16	17 46 0 19	19 22 1 38	9 33 11 29	5 7 4	4 45 (	0 4 16 5	8 5 42
W17	12 11	18 5 5 14	7 7 0 20	6 35 1 21	22 33 0 50	7 40 1 5	0 7 2 16	17 46 0 19	19 22 1 38	9 34 11 29	5 8 4	4 46 (	0 2 16 5	8 5 42
T 18	11 50	18 22 4 58	6 18 0 8	6 5 1 20	22 26 0 50	7 44 1 5	0 9 2 16	17 47 0 19	19 23 1 38	9 34 11 29	5 8 4	4 47 (	0 0 16 5	8 5 41
	11 29	17 43 4 28	5 28 On 5			7 48 1 5	0 12 2 16	17 47 0 19	19 23 1 38	9 34 11 29	5 9 4	4 48 (	0s 2 16 5	9 5 41
S 20	11 8	16 12 3 46	4 40 0 18	5 4 1 18	22 12 0 52	7 53 1 5	0 15 2 16	17 47 0 19	19 23 1 38	9 34 11 28	5 10	4 49 (	0 3 16 5	9 5 41
S 21	10 46	13 56 2 53	3 52 0 31	4 33 1 16	22 5 0 52	7 57 1 5	0 18 2 16	17 47 0 19	19 23 1 39	9 35 11 28	5 11 4	4 51 (	0 5 17	0 5 40
M22	10 25	11 6 1 53	3 6 0 45	4 3 1 15	21 57 0 53	8 2 1 4	0 20 2 16	17 47 0 19	19 23 1 39	9 35 11 28	5 12	4 52 (	0 7 17	0 5 40
T 23	10 3	7 49 0 49	2 21 0 59	3 32 1 14	21 49 0 54	8 6 1 4	0 23 2 15	17 47 0 19	19 23 1 39	9 35 11 28	5 12	4 53 (	0 9 17	0 5 39
W24	9 41	4 15 0n17	1 39 1 14	3 1 1 12	21 41 0 54	8 11 1 4	0 26 2 15	17 47 0 19	19 23 1 39	9 36 11 27	5 12	4 54 (	0 11 17	1 5 39
T 25	9 19	0 32 1 22	0 59 1 28	2 30 1 11	21 33 0 55	8 15 1 4	0 29 2 15	17 47 0 19	19 23 1 39	9 36 11 27	5 12	4 56	0 13 17	1 5 39
F 26	8 56	3 s11 2 23			21 24 0 56	8 20 1 4	0 31 2 15	17 47 0 19	19 23 1 39	9 36 11 27	5 12	4 57 (	0 15 17	2 5 38
S 27	8 34	6 46 3 18	0n12 1 57	1 28 1 7	21 15 0 56	8 24 1 3	0 34 2 15	17 47 0 19	19 23 1 39	9 37 11 26	5 12	4 58	0 17 17	2 5 38
S 28	8 12	10 6 4 5	0 43 2 11	0 56 1 6	21 6 0 57	8 29 1 3	0 37 2 15	17 47 0 19	19 23 1 39	9 37 11 26	5 11 4	4 59 (	0 18 17	2 5 38
M29	7 s49	13 s 4 4n42	1n 9 2n25	0 s 2 5 1 s 4	20 s57 0 s58	8n34 1s 3	0n40 2s15	17 s47 0n19	19 s 23 1 n 3 9	9n37 11s26	5n11 5	5n 1	0 s20   17n	3 5 s37

Julian Day Number = 2321549.5, Delta T = 47.46 sec Ecliptic obliquity = 23°28'59, Nutation = -0°00'02, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°46'21, Lahiri = 18°53'22Greg. Calendar

MARCH 1644 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	o <sup>7</sup>	4	ħ	)ţ(	<del>,</del>	Р	n	Ω	Ç	ķ	Day
T 1	10 37 18	11 <b>)</b> 2'58	1 <b>₹</b> ³32	27 <b>)</b> 48	2 <b>Υ</b> 38	1≈35	24 <b>Y</b> 47	6 <b>Υ</b> 59	21°R10	4 <b>7</b> 4	3 <b>Ⅱ</b> 18	16 <b>m</b> 54	17 <b>m</b> )17	4 <u>₽</u> 26	14 <b>II</b> 59	T 1
W 2	10 41 15	12° 2'59	14° 1	28° 6	3°52	2°21	24°59	7° 6	21 <b>m</b> 9	4° 4	3°18	16°R55	17°14	4°33	15° 0	W 2
T 3	10 45 11	13° 2'59	26°52	28°15	5° 6	3° 6	25°12	7°13	21° 9	4° 4	3°18	16°54	17°11	4°39	15° 1	T 3
F 4	10 49 8	14° 2'57	10る8	28°R15	6°20	3°52	25°24	7°20	21° 9	4° 4	3°19	16°54	17° 8	4°46	15° 2	F 4
S 5	10 53 5	15° 2'53	23°50	28° 6	7°35	4°38	25°37	7°28	21° 8	4° 4	3°19	16°54	17° 4	4°52	15° 4	S 5
S 6	10 57 1	16° 2'48	7≈58	27°49	8°49	5°24	25°49	7°35	21° 8	4°R 4	3°19	16°54	17° 1	4°59	15° 5	S 6
M 7	11 0 58	17° 2'40	22°32	27°24	10° 3	6°10	26° 2	7°42	21° 7	4° 4	3°20	16°D54	16°58	5° 6	15° 6	M 7
T 8	11 4 54	18° 2'31	7 <b>)</b> €26	26°51	11°17	6°55	26°15	7°49	21° 6	4° 4	3°20	16°54	16°55	5°12	15° 7	T 8
W 9	11 8 51	19° 2'20	22°33	26°12	12°31	7°41	26°28	7°56	21° 6	4° 4	3°21	16°R54	16°52	5°19	15° 9	W 9
T 10	11 12 47	20° 2'07	7 <b>Ƴ</b> 43	25°27	13°44	8°27	26°41	8° 4	21° 5	4° 4	3°21	16°54	16°49	5°26	15°10	T 10
F 11	11 16 44	21° 1'52	22°47	24°38	14°58	9°13	26°54	8°11	21° 4	4° 4	3°22	16°53	16°45	5°32	15°12	F 11
S 12	11 20 40	22° 1'35	7 <b>8</b> 37	23°46	16°12	9°59	27° 7	8°18	21° 3	4° 4	3°22	16°53	16°42	5°39	15°14	S 12
S 13	11 24 37	23° 1'15	22° 6	22°51	17°26	10°45	27°20	8°26	21° 2	4° 3	3°23	16°52	16°39	5°46	15°16	S 13
M14	11 28 34	24° 0'54	6 <b>I</b> I1	21°56	18°40	11°31	27°33	8°33	21° 1	4° 3	3°23	16°52	16°36	5°52	15°17	M14
T 15	11 32 30	25° 0'29	19°51	21° 1	19°53	12°16	27°46	8°41	21° 0	4° 3	3°24	16°D51	16°33	5°59	15°19	T 15
W16	11 36 27	26° 0'03	3 <b>95</b> 6	20° 7	21° 7	13° 2	27°59	8°48	20°59	4° 2	3°24	16°51	16°29	6° 6	15°21	W16
T 17	11 40 23	26°59'34	16° 0	19°16	22°21	13°48	28°12	8°55	20°58	4° 2	3°25	16°52	16°26	6°12	15°23	T 17
F 18	11 44 20	27°59'03	28°34	18°28	23°34	14°34	28°26	9° 3	20°57	4° 2	3°26	16°53	16°23	6°19	15°26	F 18
S 19	11 48 16	28°58'30	10 <b>Ω</b> 54	17°44	24°48	15°20	28°39	9°10	20°56	4° 1	3°26	16°54	16°20	6°26	15°28	S 19
S 20	11 52 13	29°57'54	23° 1	17° 4	26° 1	16° 6	28°53	9°18	20°55	4° 1	3°27	16°55	16°17	6°32	15°30	S 20
M21	11 56 9	0 <b>℃</b> 57'17	5Mm, 0	16°30	27°15	16°52	29° 6	9°25	20°53	4° 0	3°28	16°56	16°14	6°39	15°33	M21
T 22	12 0 6	1°56'36	16°52	16° 1	28°28	17°38	29°20	9°33	20°52	4° 0	3°28	16°R56	16°10	6°46	15°35	T 22
W23	12 4 3	2°55'54	28°42	15°38	29°41	18°24	29°33	9°40	20°51	3°59	3°29	16°56	16° 7	6°52	15°38	W23
T 24	12 7 59	3°55'10	10 <b>≏</b> 30	15°21	0 <b>8</b> 55	19°10	29°47	9°48	20°49	3°59	3°30	16°55	16° 4	6°59	15°40	T 24
F 25	12 11 56	4°54'24	22°19	15°10	2° 8	19°56	0 <b>8</b> 1	9°55	20°48	3°58	3°31	16°52	16° 1	7° 6	15°43	F 25
S 26	12 15 52	5°53'35	4 <b>M</b> .12	15°D 4	3°21	20°42	0°14	10° 3	20°46	3°57	3°32	16°50	15°58	7°12	15°46	S 26
S 27	12 19 49	6°52'45	16°10	15° 4	4°34	21°28	0°28	10°11	20°45	3°57	3°32	16°46	15°54	7°19	15°48	S 27
M28	12 23 45	7°51'53	28°15	15° 9	5°47	22°14	0°42	10°18	20°43	3°56	3°33	16°43	15°51	7°26	15°51	M28
T 29	12 27 42	8°51'00	10 <b>∡</b> 32	15°20	7° 0	23° 0	0°56	10°26	20°42	3°55	3°34	16°40	15°48	7°32	15°54	T 29
W30	12 31 38	9°50'04	23° 3	15°36	8°13	23°46	1°10	10°33	20°40	3°55	3°35	16°38	15°45	7°39	15°57	W30
T 31	12 35 35	10 <b>℃</b> 49'07	5 <b>궁</b> 50	15 <b>米</b> 57	9 <b>8</b> 26	24≈32	1823	10 <b>Υ</b> 41	20 <b>M</b> 38	3 <b>∡</b> 754	3耳36	16°D37	15 <b>M</b> )42	7 <b>≗</b> 45	16 <b>I</b> I 0	T 31

Day	0	D	ğ	Q	♂	4	ħ	)∤(	卉	Р	R .	U ţ	ķ
	decl	decl lat	decl lat	decl lat de	l lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl d	lecl dec	decl lat
T 1 W 2 T 3 F 4	7 s26 7 3 6 40 6 17	15 s30 5n 7 17 16 5 18 18 14 5 13 18 14 4 52	1n32 2n37 1 50 2 50 2 4 3 1 2 13 3 11	0 37 1 0 20 3 1 9 0 58 20 3 1 40 0 56 20	8 0 59 8 8 0 59 8 8 1 0 8	8n38 1s 3 8 43 1 3 8 48 1 3 8 52 1 2	0 46 2 15 0 49 2 15 0 51 2 15		19 23 1 39 19 23 1 39 19 23 1 39	9n38 11 s26 9 38 11 25 9 38 11 25 9 39 11 25	5 11 5 5 11 5 5 11 5	3 0 2 4 0 2 6 0 2	6 17 4 5 36 8 17 5 5 36
S 5 S 6 M 7 T 8 W 9 T 10	5 54 5 31 5 8 4 44 4 21 3 57	15 5 3 20 11 57 2 11 7 59 0 52 3 27 0s31 1n20 1 53	2 17 3 26 2 12 3 32 2 2 3 36 1 49 3 37	2 42 0 52 19 3 3 13 0 50 19 4 3 45 0 47 19 3 4 16 0 45 19 3	7 1 1 9 6 1 2 9 5 1 3 9 4 1 3 9	8 57 1 2 9 2 1 2 9 7 1 2 9 11 1 2 9 16 1 2 9 21 1 1	0 57 2 14 1 0 2 14 1 3 2 14 1 6 2 14	17 46 0 19 17 45 0 19	19 22 1 39 19 22 1 39 19 22 1 39 19 22 1 39 19 22 1 39	9 39 11 24 9 39 11 24 9 40 11 24 9 40 11 24 9 40 11 23 9 41 11 23	5 11 5	8 0 3 9 0 3 11 0 3 12 0 3	5 17 7 5 34
F 11 S 12 S 13	3 34 3 10 2 47	13 40 4 49	0 45 3 31 0 18 3 25	5 48 0 38 18 4 6 19 0 36 18 3	9 1 5 9 7 1 6 9	9 26 1 1 9 31 1 1 9 35 1 1	1 15 2 14 1 18 2 14	17 45 0 19 17 45 0 19	19 22 1 39 19 22 1 40 19 22 1 40	9 41 11 23 9 41 11 23 9 42 11 22	5 11 5 5 12 5	17 0 4	3 17 9 5 33 5 17 9 5 33
M14 T 15 W16 T 17 F 18 S 19	2 23 1 59 1 36 1 12 0 48 0 25	17 49 5 17 18 22 5 5	0 s 1 1 3 1 8 0 4 1 3 8 1 12 2 5 8 1 4 3 2 4 6 2 1 4 2 3 2 2 4 4 2 1 8	7 19 0 31 18 7 49 0 28 18 8 19 0 25 17 4 8 49 0 23 17 3	3 1 7 9 1 1 7 9 8 1 8 9 5 1 9 10		1 24 2 14 1 27 2 14 1 30 2 14 1 33 2 14	17 44 0 19 17 44 0 19 17 43 0 19 17 43 0 19	19 22 1 40 19 22 1 40 19 22 1 40	9 42 11 22 9 42 11 22 9 43 11 21 9 43 11 21 9 44 11 21 9 44 11 21	5 12 5 5 12 5 5 12 5 5 11 5	19 0 4 20 0 5 22 0 5 23 0 5	6 17 10 5 32 8 17 10 5 32 0 17 11 5 32 2 17 12 5 31 4 17 12 5 31 6 17 13 5 31
S 20 M21 T 22 W23 T 24 F 25 S 26	0 1 0n23 0 46 1 10 1 34 1 57 2 21	11 50 2 9 8 41 1 6 5 11 0 0 1 31 1n 5 2s13 2 7 5 52 3 4 9 18 3 52	3 40 1 48 4 6 1 33 4 29 1 17 4 50 1 2 5 9 0 46	10 17 0 15 16 3 10 46 0 12 16 4 11 14 0 9 16 2 11 43 0 6 16 1 12 11 0 3 16	6 1 10 10 2 1 11 10 8 1 11 10 4 1 12 10 0 1 12 10	0 15 1 0 0 19 1 0 0 24 1 0 0 29 1 0 0 34 0 59	1 41 2 14 1 44 2 14 1 47 2 14 1 50 2 14 1 53 2 14	17 42 0 19 17 42 0 19 17 41 0 19 17 41 0 19 17 41 0 19	19 21 1 40 19 21 1 40 19 21 1 40	9 44 11 20 9 45 11 20 9 45 11 20 9 45 11 20 9 46 11 19 9 46 11 19 9 47 11 19	5 10 5 5 10 5 5 10 5 5 11 5 5 12 5	27 1 28 1 29 1 30 1 32 1	8 17 13 5 30 0 17 14 5 30 1 17 14 5 30 3 17 15 5 29 5 17 16 5 29 7 17 16 5 29 9 17 17 5 28
S 27 M28 T 29 W30 T 31	2 44 3 8 3 31 3 54 4n17	14 57 4 59 16 54 5 13	5 50 0 2 5 58 0s12	13 33 0 5 15 1 14 0 0 8 15 14 27 0 11 14 4	8 1 14 10 3 1 15 10 8 1 15 10	0 49 0 59 0 54 0 59 0 59 0 59	2 2 2 14 2 5 2 14 2 8 2 14	17 39 0 19 17 39 0 19 17 39 0 19	19 20 1 40 19 20 1 40 19 20 1 40 19 20 1 40 19 s19 1n40	9 47 11 19 9 47 11 19 9 48 11 18 9 48 11 18 9n48 11 s18	5 15 5 5 16 5 5 17 5	35 1 1 37 1 1 38 1 1	1 17 17 5 28 3 17 18 5 28 4 17 19 5 27 6 17 19 5 27 8 17n20 5 s27

Julian Day Number = 2321578.5, Delta T = 47.40 sec Ecliptic obliquity =  $23^{\circ}28'59$ , Nutation = -  $0^{\circ}00'03$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}46'25$ , Lahiri =  $18^{\circ}53'26$ Greg. Calendar

APRIL 1644 GC 00:00 UT

VI 1/3	L 104-	T UC													00.0	0 0 1
Day	Sid.t	0	)	ğ	φ	ð	4	ħ	)∤(	卉	Р	S.	v	Ç	ķ	Day
F 1	12 39 32	11 <b>Y</b> 48'07	18 <b>궁</b> 59	16 <b>∺</b> 22	10839	25≈18	1 <b>8</b> 37	10 <b>Υ</b> 48	20°R37	3°R53	3 <b>Ц</b> 37	16 <b>m</b> 37	15 <b>m</b> 39	7 <b>≙</b> 52	16 <b>I</b> I 3	F 1
S 2	12 43 28	12°47'07	2≈31	16°52	11°52	26° 4	1°51	10°56	20 <b>M</b> 35	3 <b>₹</b> 52	3°38	16°38	15°35	7°59	16° 7	S 2
S 3	12 47 25	13°46'04	16°28	17°27	13° 4	26°50	2° 5	11° 3	20°33	3°51	3°38	16°40	15°32	8° 5	16°10	S 3
M 4	12 51 21	14°45'00	0 <b>∺</b> 50	18° 5	14°17	27°36	2°19	11°11	20°31	3°50	3°39	16°41	15°29	8°12	16°13	M 4
T 5	12 55 18	15°43'53	15°35	18°47	15°30	28°22	2°33	11°18	20°29	3°49	3°40	16°R42	15°26	8°19	16°17	T 5
W 6	12 59 14	16°42'45	0 <b>Υ</b> 38	19°33	16°42	29° 9	2°47	11°26	20°27	3°48	3°41	16°41	15°23	8°25	16°20	W 6
T 7	13 3 11	17°41'35	15°50	20°22	17°55	29°55	3° 1	11°34	20°25	3°47	3°42	16°39	15°20	8°32	16°24	T 7
F 8	13 7 7	18°40'23	1 <b>8</b> 3	21°14	19° 7	0 <b>)</b> €41	3°16	11°41	20°23	3°46	3°43	16°35	15°16	8°39	16°27	F 8
S 9	13 11 4	19°39'09	16° 5	22° 9	20°20	1°27	3°30	11°49	20°21	3°45	3°44	16°31	15°13	8°45	16°31	S 9
S 10	13 15 0	20°37'53	0 <b>Ⅱ</b> 48	23° 8	21°32	2°13	3°44	11°56	20°19	3°44	3°45	16°26	15°10	8°52	16°35	S 10
M11	13 18 57	21°36'35	15° 6	24° 9	22°44	2°59	3°58	12° 4	20°17	3°43	3°46	16°21	15° 7	8°59	16°38	M11
T 12	13 22 54	22°35'14	28°56	25°13	23°57	3°45	4°12	12°11	20°15	3°42	3°48	16°18	15° 4	9° 5	16°42	T 12
W13	13 26 50	23°33'51	129518	26°19	25° 9	4°31	4°27	12°19	20°13	3°41	3°49	16°15	15° 0	9°12	16°46	W13
T 14	13 30 47	24°32'27	25°13	27°28	26°21	5°17	4°41	12°26	20°11	3°40	3°50	16°D15	14°57	9°19	16°50	T 14
F 15	13 34 43	25°30'59	7 <b>Ω</b> 45	28°40	27°33	6° 3	4°55	12°33	20° 9	3°39	3°51	16°16	14°54	9°25	16°54	F 15
S 16	13 38 40	26°29'30	20° 0	29°54	28°45	6°49	5° 9	12°41	20° 6	3°38	3°52	16°17	14°51	9°32	16°58	S 16
S 17	13 42 36	27°27'58	2 Mp 1	1 <b>Υ</b> 10	29°57	7°35	5°23	12°48	20° 4	3°36	3°53	16°19	14°48	9°39	17° 2	S 17
M18	13 46 33	28°26'25	13°54	2°28	1 <b>I</b> 9	8°21	5°38	12°56	20° 2	3°35	3°54	16°R19	14°45	9°45	17° 6	M18
T 19	13 50 29	29°24'49	25°42	3°48	2°21	9° 6	5°52	13° 3	20° 0	3°34	3°55	16°19	14°41	9°52	17°11	T 19
W20	13 54 26	0823'11	7 <b>≏</b> 29	5°10	3°32	9°52	6° 6	13°10	19°57	3°33	3°56	16°17	14°38	9°59	17°15	W20
T 21	13 58 23	1°21'31	19°18	6°35	4°44	10°38	6°21	13°18	19°55	3°31	3°58	16°12	14°35	10° 5	17°19	T 21
F 22	14 2 19	2°19'50	1 <b>M</b> .12	8° 1	5°55	11°24	6°35	13°25	19°53	3°30	3°59	16° 6	14°32	10°12	17°23	F 22
S 23	14 6 16	3°18'06	13°12	9°29	7° 7	12°10	6°49	13°32	19°50	3°29	4° 0	15°58	14°29	10°19	17°28	S 23
S 24	14 10 12	4°16'21	25°19	11° 0	8°18	12°56	7° 4	13°40	19°48	3°27	4° 1	15°49	14°26	10°25	17°32	S 24
M25	14 14 9	5°14'34	7 <b>.₹</b> 35	12°32	9°30	13°42	7°18	13°47	19°46	3°26	4° 2	15°40	14°22	10°32	17°37	M25
T 26	14 18 5	6°12'46	20° 2	14° 6	10°41	14°28	7°32	13°54	19°43	3°25	4° 4	15°32	14°19	10°39	17°41	T 26
W27	14 22 2	7°10'56	2 <b>ප්</b> 41	15°42	11°52	15°13	7°47	14° 1	19°41	3°23	4° 5	15°25	14°16	10°45	17°46	W27
T 28	14 25 58	8° 9'05	15°33	17°20	13° 3	15°59	8° 1	14° 8	19°38	3°22	4° 6	15°20	14°13	10°52	17°50	T 28
F 29	14 29 55	9° 7'12	28°42	19° 0	14°14	16°45	8°15	14°15	19°36	3°20	4° 7	15°18	14°10	10°59	17°55	F 29
S 30	14 33 52	108 5'18	12 <b>∞</b> 9	20 <b>℃</b> 41	15 <b>Ⅱ</b> 25	17 <b>)</b> 31	8 <b>8</b> 29	14 <b>Y</b> 22	19 <b>M</b> _33	3 <b>∡</b> 19	4 <b>I</b> I 9	15°D17	14MD 6	11 <b>≏</b> 5	18 <b>II</b> 0	S 30

Day	0	D	1	<b></b>	φ	ð	1	24	ŀ	ħ	Į.	)į	ξ(	4	Ţ	Р	n	U	Ç	Š
	decl	decl lat	decl	lat dec	l lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	dec	decl	decl	decl lat
F 1 S 2	4n40 5 4	17 s44 4n 16 4 3				14 s18 14 3	-	11n 9 11 14	0 s59 0 59	2n14 2 17		17 s38 17 37		19s19 19 19	1n40 1 41	9n49 11 9 49 11	-	-		17n20 5 s26 17 21 5 26
S 3 M 4 T 5	5 27 5 49	9 51 1	26 6 0	1 23 16 3	4 0 26	13 48 13 32	1 18	11 18 11 23	0 58 0 58	2 20 2 23	2 14	-, -,	0 19	19 19 19 19	1 41 1 41	9 50 11 9 50 11	1 17 5 10	5 44	1 26	
W 6 T 7	6 12 6 35 6 57	3n53 2		1 42 17 2 1 51 17 4	2 0 32 5 0 35	12 45	1 19 1 19	11 28 11 33 11 38	0 58 0 58 0 58	2 26 2 29 2 32	2 14 2 14	17 35	0 19 0 19	19 18 19 18 19 18	1 41 1 41 1 41	9 51 11	1 17 5 10 1 16 5 1	5 46 5 48		
S 9	7 20 7 42		30 5 3	2 6 18 3	1 0 41	12 30 12 14	1 20	11 43 11 48	0 58 0 58	2 35 2 37	2 14	17 34 17 34	0 19	19 18 19 17	1 41	9 52 11		5 50	1 35	17 25 5 24 17 25 5 24
S 10 M11 T 12	8 26 8 48	18 24 5	1 4 46 12 4 27 5 4 6	2 18 19 1 2 24 19 3	4 0 46 5 0 49	11 57 11 41 11 25	1 21 1 21		0 58 0 58 0 58	2 40 2 43 2 46	2 14 2 14	17 33 17 32 17 32	0 19 0 19	19 17 19 17 19 17	1 41 1 41	9 52 11 9 53 11 9 53 11	1 15 5 24 1 15 5 25	5 53 5 54	1 39 1 41	17 26 5 24 17 27 5 24 17 27 5 23
W13 T 14 F 15	9 32 9 53	15 14 3	3 3 21 15 2 55	2 33 20 1 2 36 20 3	6 0 55 6 0 58	10 52 10 35	1 22 1 23	12 7 12 12 12 17	0 57 0 57 0 57	2 49 2 52 2 55	2 14 2 14	17 31 17 31 17 30	0 19 0 19	19 17 19 16 19 16	1 41 1 41	9 53 11 9 54 11 9 54 11	1 15 5 20 1 15 5 20	5 56 5 57	1 44 1 46	17 28 5 23 17 29 5 23 17 29 5 23
S 16 S 17 M18	10 14 10 35 10 56	12 39 2 9 35 1 6 9 0	17 2 1	2 39 20 5 2 42 21 1 2 44 21 3	3 1 4			12 22 12 27 12 31	0 57 0 57 0 57	2 57 3 0 3 3	2 14	17 30 17 29 17 28	0 19	19 16 19 16 19 15	1 41 1 41 1 41	9 54 11 9 55 11 9 55 11	1 14 5 2:	6 0	1 48 1 50 1 52	17 30 5 22 17 30 5 22 17 31 5 22
T 19 W20	11 17 11 38	2 29 0n 1 s15 1	51 1 1 52 0 29	2 45 21 4 2 46 22	8 1 9 5 1 12	9 28 9 11	1 24 1 25	12 36 12 41	0 57 0 57	3 6 3 9	2 14 2 15	17 28 17 27	0 19 0 19	19 15 19 15	1 41 1 41	9 56 11 9 56 11	1 14 5 2: 1 14 5 2:	6 2 6 4	1 54 1 56	17 32 5 22 17 32 5 21
T 21 F 22 S 23	11 58 12 18 12 38	4 58 2 8 30 3 11 43 4	39 0 39	2 45 22 3	7 1 18	8 37	1 25	12 46 12 51 12 55	0 57 0 57 0 57	3 11 3 14 3 17	2 15	17 27 17 26 17 25	0 19	19 14 19 14 19 14	1 41 1 41 1 41	9 56 11 9 57 11 9 57 11	1 14 5 30	6 6	2 0	17 33 5 21
S 24 M25 T 26	12 58 13 18 13 37		48 1 52 4 2 30 6 3 9	2 41 23 2			1 26 1 26		0 57 0 57 0 57	3 20 3 22 3 25	2 15	17 25 17 24 17 23	0 19	19 14 19 13 19 13	1 41 1 41 1 41		1 13 5 30 1 13 5 40 1 13 5 47	6 10	2 3 2 5 2 7	17 35 5 20
W27 T 28 F 29	13 56 14 15		53 3 49 26 4 30	2 35 23 4 2 31 23 5	5 1 31	7 10 6 53	1 27 1 27	13 14 13 19 13 24	0 57 0 56 0 56	3 28 3 30 3 33	2 15 2 15	17 23 17 22 17 21	0 19 0 19	19 13 19 12 19 12	1 41 1 41		1 13 5 40 1 13 5 4	6 12 6 13	2 9 2 11	
S 30	-	14 s 29 2 n	-	1				13 24 13n28		3n36	-	17 s21		19 s12		10n 0 11	-			17n38 5 s19

Julian Day Number = 2321609.5, Delta T = 47.34 sec Ecliptic obliquity = 23°28'59, Nutation = -0°00'05, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°46'29, Lahiri = 18°53'30Greg. Calendar

MAY 1644 GC 00:00 UT

I.IV I	TOTT (	16													00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	¥	В	S.	v	Ç	ķ	Day
S 1	14 37 48	118 3'22	25≈56	22 <b>Y</b> 25	16耳36	18 <b>)</b> (16	8 <b>8</b> 44	14 <b>Y</b> 30	19°R31	3°R17	4 <b>Ⅱ</b> 10	15 <b>m</b> )18	14 m/ 3	11 <b>≏</b> 12	18 <b>I</b> 5	S 1
M 2	14 41 45	12° 1'25	10 <b>) (</b> 4	24°11	17°47	19° 2	8°58	14°37	19 <b>M</b> 28	3 <b>∡</b> 16	4°11	15°R19	14° 0	11°19	18° 9	M 2
T 3	14 45 41	12°59'26	24°32	25°58	18°57	19°48	9°12	14°44	19°26	3°14	4°12	15°19	13°57	11°25	18°14	T 3
W 4	14 49 38	13°57'26	9 <b>Ƴ</b> 19	27°47	20° 8	20°34	9°27	14°50	19°23	3°13	4°14	15°16	13°54	11°32	18°19	W 4
T 5	14 53 34	14°55'25	24°17	29°38	21°19	21°19	9°41	14°57	19°21	3°11	4°15	15°12	13°51	11°39	18°24	T 5
F 6	14 57 31	15°53'23	9 <b>8</b> 20	1832	22°29	22° 5	9°55	15° 4	19°18	3°10	4°16	15° 5	13°47	11°45	18°29	F 6
S 7	15 1 27	16°51'18	24°18	3°27	23°39	22°50	10° 9	15°11	19°16	3° 8	4°18	14°56	13°44	11°52	18°34	S 7
S 8	15 5 24	17°49'13	9П 2	5°23	24°50	23°36	10°24	15°18	19°13	3° 7	4°19	14°47	13°41	11°58	18°39	S 8
M 9	15 9 21	18°47'06	23°24	7°22	26° 0	24°21	10°38	15°25	19°11	3° 5	4°20	14°37	13°38	12° 5	18°44	M 9
T 10	15 13 17	19°44'57	79519	9°23	27°10	25° 7	10°52	15°31	19°8	3° 4	4°22	14°29	13°35	12°12	18°49	T 10
W11	15 17 14	20°42'46	20°46	11°25	28°20	25°52	11° 6	15°38	19° 6	3° 2	4°23	14°24	13°31	12°18	18°54	W11
T 12	15 21 10	21°40'34	3 <b>Ω</b> 45	13°29	29°30	26°38	11°21	15°45	19° 3	3° 1	4°24	14°20	13°28	12°25	18°59	T 12
F 13	15 25 7	22°38'20	16°20	15°34	09540	27°23	11°35	15°51	19° 1	2°59	4°26	14°18	13°25	12°32	19° 5	F 13
S 14	15 29 3	23°36'04	28°35	17°41	1°50	28° 8	11°49	15°58	18°58	2°57	4°27	14°D18	13°22	12°38	19°10	S 14
S 15	15 33 0	24°33'47	10 <b>m</b> /36	19°49	2°59	28°54	12° 3	16° 4	18°56	2°56	4°28	14°R19	13°19	12°45	19°15	S 15
M16	15 36 56	25°31'28	22°28	21°59	4° 9	29°39	12°17	16°11	18°53	2°54	4°30	14°19	13°16	12°52	19°20	M16
T 17	15 40 53	26°29'07	4 <b>₽</b> 15	24° 9	5°18	0 <b>Υ</b> 24	12°31	16°17	18°51	2°53	4°31	14°17	13°12	12°58	19°26	T 17
W18	15 44 50	27°26'45	16° 3	26°20	6°27	1° 9	12°45	16°24	18°48	2°51	4°32	14°13	13° 9	13° 5	19°31	W18
T 19	15 48 46	28°24'22	27°56	28°32	7°37	1°55	12°59	16°30	18°46	2°49	4°34	14° 6	13° 6	13°12	19°36	T 19
F 20	15 52 43	29°21'57	9 <b>M</b> .56	0 <b>Ⅱ</b> 44	8°46	2°40	13°13	16°36	18°43	2°48	4°35	13°57	13° 3	13°18	19°42	F 20
S 21	15 56 39	0 <b>Ⅱ</b> 19'31	22° 6	2°55	9°55	3°25	13°27	16°42	18°41	2°46	4°37	13°45	13° 0	13°25	19°47	S 21
S 22	16 0 36	1°17'04	4 <b>₹</b> 26	5° 7	11° 3	4°10	13°41	16°48	18°38	2°44	4°38	13°33	12°57	13°32	19°52	S 22
M23	16 4 32	2°14'36	16°57	7°18	12°12	4°55	13°55	16°54	18°36	2°43	4°39	13°20	12°53	13°38	19°58	M23
T 24	16 8 29	3°12'06	29°40	9°28	13°21	5°40	14° 9	17° 0	18°34	2°41	4°41	13° 8	12°50	13°45	20° 3	T 24
W25	16 12 25	4° 9'36	12 <b>る</b> 35	11°36	14°29	6°25	14°23	17° 6	18°31	2°40	4°42	12°58	12°47	13°52	20° 9	W25
T 26	16 16 22	5° 7'05	25°41	13°44	15°37	7° 9	14°37	17°12	18°29	2°38	4°43	12°51	12°44	13°58	20°14	T 26
F 27	16 20 19	6° 4'33	9≈ 0	15°50	16°46	7°54	14°50	17°18	18°26	2°36	4°45	12°46	12°41	14° 5	20°20	F 27
S 28	16 24 15	7° 2'00	22°31	17°54	17°54	8°39	15° 4	17°24	18°24	2°35	4°46	12°44	12°37	14°12	20°25	S 28
S 29	16 28 12	7°59'26	6 <b>∺</b> 16	19°56	19° 2	9°24	15°18	17°30	18°22	2°33	4°47	12°44	12°34	14°18	20°31	S 29
M30	16 32 8	8°56'52	20°16	21°57	20° 9	10° 8	15°32	17°35	18°20	2°31	4°49	12°44	12°31	14°25	20°36	M30
T 31	16 36 5	9 <b>Ⅲ</b> 54'17	<b>4</b> Υ30	23 <b>Ⅱ</b> 55	219917	10 <b>Y</b> 53	15 <b>8</b> 45	17 <b>Y</b> 41	18 <b>M</b> .17	2 <b>₹</b> 30	4 <b>Ⅱ</b> 50	12 <b>m</b> /43	12 <b>m</b> 28	14 <b>≏</b> 32	20 <b>Ⅱ</b> 42	T 31

Day	0	D	ğ	φ	♂¹	4	ħ	)Å(	并	Р	ß	Ω	<b>€</b> &
	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 T 5 F 6			7 22 2 1 8 7 2 8 53 1 5 9 39 1 5 10 25 1 4	4 24 46 1 45 58 24 54 1 47 50 25 1 1 49 43 25 7 1 51	5 25 1 29 5 7 1 29 4 49 1 29 4 31 1 30	13 37 0 56 13 42 0 56 13 47 0 56 13 51 0 56 13 56 0 56	3 41 2 16 3 44 2 16 3 46 2 16 3 49 2 16 3 51 2 16	17 19 0 19 17 19 0 19 17 18 0 19 17 17 0 19 17 17 0 19	19 11 1 41 19 10 1 41 19 10 1 41	10 0 11 12 10 1 11 12 10 1 11 12 10 1 11 12 10 1 11 12 10 2 11 12	5 48 5 48 5 49 5 51 5 53	6 18 2 6 20 2 6 21 2 6 22 2 6 23 2	2 16 17n39 5 19 2 18 17 39 5 19 2 20 17 40 5 19 2 22 17 41 5 19 2 24 17 41 5 19 2 26 17 42 5 19
S 7 S 8 M 9 T 10 W11 T 12 F 13 S 14	17 10 17 27 17 42 17 58 18 13 18 28	16 52 5 3 18 19 5 1 18 37 4 41 17 50 4 5 16 8 3 19 13 41 2 23	12 0 1 2 12 47 1 1 13 35 1 14 22 0 5 15 9 0 4 15 56 0 3	17 25 22 1 57 8 25 26 1 59 58 25 29 2 1	3 56 1 30 3 38 1 30 3 20 1 31	14 23 0 56 14 27 0 56	3 56 2 16 3 59 2 16 4 1 2 17 4 4 2 17 4 6 2 17 4 9 2 17	17 16 0 19 17 15 0 19 17 15 0 19 17 14 0 19 17 13 0 19 17 13 0 19 17 12 0 19 17 11 0 19	19 9 1 42 19 9 1 42 19 9 1 42 19 8 1 42 19 8 1 42	10 2 11 11 10 3 11 11 10 3 11 11 10 3 11 11 10 4 11 11 10 4 11 11	6 0 6 4 6 7 6 9 6 11 6 11	6 26 27 2 6 28 2 6 29 2 6 31 2 6 32 2	2 28 17 42 5 18 2 30 17 43 5 18 2 31 17 43 5 18 2 33 17 44 5 18 2 35 17 44 5 18 2 37 17 45 5 18 2 39 17 45 5 18 2 41 17 46 5 18
S 15 M16 T 17 W18 T 19 F 20 S 21	18 57 19 11 19 24 19 38 19 50 20 3 20 15	3 40 0n43 0s 6 1 44 3 52 2 40 7 30 3 30 10 52 4 10	18 12 0 18 55 0n 19 37 0 1 20 17 0 2 20 55 0 3	6 25 33 2 8 4 25 32 2 9 15 25 30 2 10 25 25 27 2 12 35 25 24 2 13		14 40 0 56 14 44 0 56 14 49 0 56	-	17 9 0 19 17 8 0 19 17 7 0 19	19 7 1 42 19 7 1 42 19 6 1 42 19 6 1 42 19 6 1 42	10 5 11 11 10 5 11 11 10 5 11 11 10 6 11 10 10 6 11 10	6 11 6 12 6 13 6 16 6 20	6 35 2 6 37 2 6 38 2 6 39 2 6 40 2	2 43 17 46 5 17 2 45 17 47 5 17 2 46 17 47 5 17 2 48 17 48 5 17 2 50 17 48 5 17 2 52 17 49 5 17 2 54 17 49 5 17
W25 T 26 F 27	20 39 20 50 21 1	18 40 4 49 18 32 4 22 17 25 3 42 15 20 2 48	22 37 1 23 6 1 1 23 33 1 2 23 57 1 2	21 24 57 2 16 28 24 50 2 17 35 24 42 2 17	1 43 1 33	15 10 0 56 15 14 0 56	4 33 2 19 4 36 2 19 4 38 2 19	17 5 0 19 17 5 0 19 17 4 0 19 17 3 0 19 17 3 0 19	19 5 1 42 19 4 1 42 19 4 1 42 19 4 1 42 19 4 1 42	10 7 11 10 10 7 11 10 10 7 11 10 10 7 11 10 10 8 11 10 10 8 11 10	6 34 6 38 6 42 6 45 6 47	6 43 2 6 44 2 6 45 3 6 46 3 6 48 3 6 49 3 6 50 3	3 0 17 50 5 17 3 2 17 51 5 17 3 3 17 51 5 17 3 5 17 52 5 17
M30	21 41 21 50 21n59	4 28 0 s40	25 6 1 5		2 36 1 33	15 34 0 56 15 38 0 56 15n42 0 s56	4 44 2 20 4 46 2 20 4n48 2 s20	17 1 0 19	19 3 1 42		6 48		3 9 17 53 5 17 3 11 17 53 5 17 3 s13 17n53 5 s17

Julian Day Number = 2321639.5, Delta T = 47.29 sec Ecliptic obliquity =  $23^{\circ}28'59$ , Nutation = -  $0^{\circ}00'06$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}46'34$ , Lahiri =  $18^{\circ}53'34$ Greg. Calendar

JUNE 1644 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)f(	卉	Р	n	v	Ç	ķ	Day
W 1	16 40 1	10∏51'42	18 <b>Y</b> 57	25耳50	229525	11 <b>Y</b> 37	15 <b>8</b> 59	17 <b>Ƴ</b> 47	18°R15	2°R28	4 <b>∏</b> 52	12°R40	12 <b>m</b> 25	14 <b>₽</b> 38	20 <b>Ⅱ</b> 47	W 1
T 2	16 43 58	11°49'06	3 <b>8</b> 35	27°44	23°32	12°22	16°12	17°52	18 <b>M</b> .13	2 <b>,</b> ₹27	4°53	12 <b>m</b> 34	12°22	14°45	20°53	T 2
F 3	16 47 54	12°46'29	18°17	29°35	24°39	13° 6	16°26	17°58	18°10	2°25	4°54	12°26	12°18	14°52	20°59	F 3
S 4	16 51 51	13°43'52	2耳56	19523	25°46	13°51	16°39	18° 3	18° 8	2°23	4°56	12°16	12°15	14°58	21° 4	S 4
S 5	16 55 48	14°41'14	17°25	3° 9	26°53	14°35	16°53	18° 8	18° 6	2°22	4°57	12° 4	12°12	15° 5	21°10	S 5
M 6	16 59 44	15°38'35	19937	4°53	28° 0	15°19	17° 6	18°13	18° 4	2°20	4°58	11°53	12° 9	15°12	21°15	M 6
T 7	17 3 41	16°35'56	15°26	6°34	29° 7	16° 4	17°20	18°19	18° 2	2°19	5° 0	11°43	12° 6	15°18	21°21	T 7
W 8	17 7 37	17°33'15	28°51	8°12	0 <b>Ω</b> 13	16°48	17°33	18°24	18° 0	2°17	5° 1	11°35	12° 3	15°25	21°27	W 8
T 9	17 11 34	18°30'34	11 <b>£</b> 50	9°48	1°19	17°32	17°46	18°29	17°58	2°16	5° 2	11°30	11°59	15°32	21°32	T 9
F 10	17 15 30	19°27'52	24°26	11°21	2°25	18°16	17°59	18°34	17°56	2°14	5° 4	11°27	11°56	15°38	21°38	F 10
S 11	17 19 27	20°25'09	6 <b>m</b> 43	12°52	3°31	19° 0	18°12	18°38	17°54	2°13	5° 5	11°27	11°53	15°45	21°44	S 11
S 12	17 23 23	21°22'25	18°45	14°20	4°37	19°44	18°25	18°43	17°52	2°11	5° 6	11°27	11°50	15°52	21°49	S 12
M13	17 27 20	22°19'41	0 <b>ჲ</b> 38	15°45	5°43	20°27	18°38	18°48	17°50	2°10	5° 8	11°26	11°47	15°58	21°55	M13
T 14	17 31 17	23°16'55	12°27	17° 8	6°48	21°11	18°51	18°53	17°48	2° 8	5° 9	11°25	11°43	16° 5	22° 1	T 14
W15	17 35 13	24°14'09	24°18	18°27	7°53	21°55	19° 4	18°57	17°46	2° 7	5°10	11°21	11°40	16°12	22° 6	W15
T 16	17 39 10	25°11'22	6 <b>M</b> .14	19°45	8°58	22°38	19°17	19° 2	17°44	2° 5	5°12	11°15	11°37	16°18	22°12	T 16
F 17	17 43 6	26° 8'35	18°20	20°59	10° 3	23°22	19°30	19° 6	17°42	2° 4	5°13	11° 7	11°34	16°25	22°18	F 17
S 18	17 47 3	27° 5'47	0 <b>₮</b> 39	22°10	11° 7	24° 5	19°43	19°10	17°41	2° 2	5°14	10°57	11°31	16°32	22°23	S 18
S 19	17 50 59	28° 2'59	13°12	23°18	12°11	24°49	19°55	19°15	17°39	2° 1	5°16	10°45	11°28	16°38	22°29	S 19
M20	17 54 56	29° 0'11	26° 1	24°24	13°15	25°32	20° 8	19°19	17°37	1°59	5°17	10°33	11°24	16°45	22°35	M20
T 21	17 58 52	29°57'22	9 <b>궁</b> 3	25°26	14°19	26°15	20°20	19°23	17°36	1°58	5°18	10°22	11°21	16°52	22°40	T 21
W22	18 2 49	0954'33	22°19	26°25	15°23	26°59	20°33	19°27	17°34	1°57	5°19	10°13	11°18	16°59	22°46	W22
T 23	18 6 46	1°51'44	5≈46	27°21	16°26	27°42	20°45	19°31	17°32	1°55	5°21	10° 6	11°15	17° 5	22°51	T 23
F 24	18 10 42	2°48'54	19°24	28°13	17°29	28°25	20°58	19°35	17°31	1°54	5°22	10° 2	11°12	17°12	22°57	F 24
S 25	18 14 39	3°46'05	3 <b>∺</b> 10	29° 2	18°32	29° 8	21°10	19°38	17°29	1°53	5°23	10° 0	11° 9	17°19	23° 3	S 25
S 26	18 18 35	4°43'16	17° 4	29°48	19°34	29°50	21°22	19°42	17°28	1°51	5°24	10°D 0	11° 5	17°25	23° 8	S 26
M27	18 22 32	5°40'27	1 <b>Y</b> 6	0 <b>Ω</b> 29	20°37	0 <b>8</b> 33	21°34	19°46	17°27	1°50	5°26	10°R 1	11° 2	17°32	23°14	M27
T 28	18 26 28	6°37'39	15°15	1° 7	21°39	1°16	21°46	19°49	17°25	1°49	5°27	10° 1	10°59	17°39	23°19	T 28
W29	18 30 25	7°34'50	29°29	1°41	22°40	1°58	21°58	19°52	17°24	1°47	5°28	9°59	10°56	17°45	23°25	W29
T 30	18 34 21	8932'02	13 <b>8</b> 46	2 <b>Ω</b> 11	23 <b>N</b> 42	2841	22810	19 <b>Y</b> 56	17 <b>M</b> 23	1 <b>,</b> 7⁴46	5 <b>Ⅱ</b> 29	9 <b>m</b> 55	10 <b>m</b> 53	17 <b>≏</b> 52	23 <b>Ⅲ</b> 31	T 30

Day	0	D	ğ	Q	o <sup>7</sup>	4	ħ	)Å(	并	Р	a c	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl de	cl decl	decl lat
W 1 T 2 F 3 S 4	22n 7 22 15 22 22 22 29	9 3 3 54 12 54 4 3	9 25n24 1: 4 25 30 2 5 25 33 2 7 25 33 2	2 4 23 28 2 17			4 52 2 20 4 53 2 21	17s 0 0n19 16 59 0 19 16 58 0 19 16 58 0 19	19 1 1 41	10 9 11 10 10 10 11 10	6n49 6n 6 51 6 6 54 6 6 58 6	56 3 17 57 3 18	17n54 5s17 17 54 5 17 17 54 5 17 17 55 5 17
S 5 M 6 T 7 W 8	22 36 22 42 22 48 22 54	17 55 4 59 18 45 4 41 18 26 4 1	25 32 2 3 25 28 2	2 5 23 2 2 15 2 5 22 48 2 15 2 4 22 33 2 14	4 20 1 33 4 37 1 33 4 54 1 33 5 11 1 33	16 1 0 56 16 5 0 56 16 9 0 56	4 57 2 21 4 59 2 21 5 1 2 21	16 57 0 19 16 57 0 19 16 56 0 19	19 1 1 41 19 1 1 41 19 0 1 41	10 10 11 10 10 10 11 10 10 11 11 10	7 3 7 7 7 7 7 11 7 7 14 7	0 3 22 1 3 24	17 55 5 17 17 55 5 17 17 56 5 17
T 9 F 10 S 11	22 59 23 4 23 8	14 52 2 30 12 0 1 20 8 41 0 2	25 6 1 9 24 55 1 5 24 43 1	1 59 22 3 2 12 1 56 21 47 2 11 1 52 21 30 2 9	5 28 1 33 5 45 1 32 6 2 1 32	16 16 0 56 16 20 0 56 16 24 0 56	5 4 2 22 5 6 2 22 5 7 2 22	16 55 0 19 16 54 0 19 16 54 0 19	19 0 1 41 18 59 1 41 18 59 1 41	10 11 11 10 10 11 11 10 10 11 11 10	7 16 7 7 17 7 7 17 7	5 3 30 6 3 32 7 3 34	17 56 5 17 17 57 5 17 17 57 5 17
S 12 M13 T 14 W15 T 16 F 17	23 12 23 16 23 19 23 21 23 24 23 26	1 17 1 40 2s31 2 3 6 14 3 2 9 43 4	0 24 14 1 7 23 58 1 7 23 40 1 8 23 22 1	1 47 21 13 2 8 1 41 20 55 2 6 1 35 20 37 2 5 1 29 20 18 2 3 1 21 19 59 2 1 1 13 19 40 1 59	6 18 1 32 6 35 1 32 6 51 1 32 7 8 1 32 7 24 1 32 7 41 1 32	16 34 0 56 16 38 0 56 16 41 0 56	5 11 2 23 5 12 2 23 5 14 2 23 5 15 2 23	16 53 0 19 16 52 0 19 16 52 0 19 16 51 0 19	18 59 1 41 18 59 1 41 18 58 1 41 18 58 1 41 18 58 1 41 18 58 1 41	10 12 11 10 10 12 11 10 10 12 11 10	7 17 7 7 17 7 7 18 7 7 19 7 7 21 7 7 25 7	9 3 37 11 3 39 12 3 41 13 3 43	17 57 5 17 17 57 5 17 17 58 5 17 17 58 5 18 17 58 5 18 17 58 5 18
S 18 S 19 M20 T 21	23 27 23 28 23 29 23 29	15 29 4 5 17 26 5 18 35 4 5 18 46 4 2	7 22 43 1 1 22 23 0 1 22 2 0 5 21 40 0	1 5 19 20 1 57 0 56 19 0 1 54 0 46 18 39 1 52 0 36 18 18 1 49		16 48 0 56 16 51 0 56 16 55 0 56 16 58 0 56	5 19 2 24 5 21 2 24 5 22 2 25	16 50 0 18 16 50 0 18 16 49 0 18 16 49 0 18	18 57 1 41 18 57 1 41 18 57 1 41 18 57 1 41	10 13 11 10 10 13 11 10 10 13 11 10	7 29 7 7 33 7 7 38 7 7 42 7	16 3 47 17 3 49 18 3 50 19 3 52	17 58 5 18 17 59 5 18 17 59 5 18 17 59 5 18
W22 T 23 F 24 S 25	23 26	16 6 2 5 13 20 1 4 9 48 0 3	1 20 57 0 7 20 35 0 5 20 13 0	0s11 16 51 1 38	9 32 1 30 9 47 1 30	17 11 0 56	5 25 2 25 5 26 2 25 5 27 2 26	16 48 0 18 16 48 0 18 16 47 0 18	18 56 1 41 18 56 1 41 18 56 1 41 18 56 1 41	10 13 11 11 10 14 11 11 10 14 11 11	7 45 7 7 48 7 7 49 7 7 50 7	22 3 56 23 3 58 24 4 0	17 59 5 18 17 59 5 19 17 59 5 19 18 0 5 19
S 26 M27 T 28 W29 T 30	23 24 23 22 23 19 23 16 23n12	1 15 1 50 3n18 2 50 7 41 3 53	0 19 29 0 6 19 7 0 2 18 46 1	0 37 16 5 1 31 0 51 15 42 1 27 1 5 15 18 1 24	10 18 1 29 10 33 1 29 10 48 1 29	17 14 0 56 17 17 0 56 17 20 0 56 17 23 0 56 17n26 0s56	5 29 2 26 5 30 2 26 5 31 2 27	16 47 0 18 16 46 0 18 16 46 0 18	18 55 1 41 18 55 1 41 18 55 1 41 18 55 1 41 18 55 1 11	10 14 11 11 10 14 11 11 10 14 11 11	7 50 7 7 50 7 7 50 7 7 50 7 7n52 7n	26 4 4 28 4 6 29 4 7	18 0 5 19 18 0 5 19

Julian Day Number = 2321670.5, Delta T = 47.23 sec Ecliptic obliquity = 23°28'59, Nutation = -0°00'06, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°46'38, Lahiri = 18°53'38Greg. Calendar

JULY 1644 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	并	В	r	v	Ç	Ŗ	Day
F 1	18 38 18	99529'15	288 4	2 <b>N</b> 36	24€43	3 <b>8</b> 23	22822	19 <b>Y</b> 59	17°R21	1°R45	5 <b>Ⅱ</b> 30	9°R48	10 <b>m</b> )49	17 <b>Ω</b> 59	23 <b>II</b> 36	F 1
S 2	18 42 15	10°26'28	12 <b>II</b> 17	2°57	25°43	4° 6	22°33	20° 2	17 <b>M</b> 20	1 <b>∡</b> 744	5°31	9 <b>m</b> /40	10°46	18° 5	23°42	S 2
S 3	18 46 11	11°23'41	26°22	3°14	26°44	4°48	22°45	20° 5	17°19	1°43	5°33	9°31	10°43	18°12	23°47	S 3
M 4	18 50 8	12°20'54	109512	3°26	27°44	5°30	22°57	20° 8	17°18	1°42	5°34	9°22	10°40	18°19	23°53	M 4
T 5	18 54 4	13°18'07	23°45	3°34	28°44	6°12	23° 8	20°11	17°17	1°40	5°35	9°13	10°37	18°25	23°58	T 5
W 6	18 58 1	14°15'21	$6\Omega$ 58	3°R36	29°43	6°54	23°20	20°14	17°16	1°39	5°36	9° 7	10°34	18°32	24° 4	W 6
T 7	19 1 57	15°12'35	19°50	3°34	0 <b>m</b> 42	7°36	23°31	20°16	17°15	1°38	5°37	9° 3	10°30	18°39	24° 9	T 7
F 8	19 5 54	16° 9'48	2 Mp 22	3°27	1°41	8°18	23°42	20°19	17°14	1°37	5°38	9° 1	10°27	18°45	24°14	F 8
S 9	19 9 50	17° 7'02	14°37	3°16	2°39	9° 0	23°53	20°21	17°13	1°36	5°39	9°D 1	10°24	18°52	24°20	S 9
S 10	19 13 47	18° 4'16	26°40	2°59	3°37	9°41	24° 4	20°24	17°12	1°35	5°40	9° 2	10°21	18°59	24°25	S 10
M11	19 17 44	19° 1'30	8 <b>≏</b> 34	2°39	4°34	10°23	24°15	20°26	17°12	1°34	5°41	9° 3	10°18	19° 5	24°31	M11
T 12	19 21 40	19°58'44	20°24	2°14	5°31	11° 4	24°26	20°28	17°11	1°33	5°42	9°R 4	10°15	19°12	24°36	T 12
W13	19 25 37	20°55'59	2 <b>M</b> .16	1°45	6°28	11°45	24°37	20°30	17°10	1°32	5°43	9° 3	10°11	19°19	24°41	W13
T 14	19 29 33	21°53'13	14°15	1°12	7°24	12°26	24°47	20°32	17°10	1°31	5°44	9° 1	10° 8	19°25	24°47	T 14
F 15	19 33 30	22°50'28	26°25	0°36	8°19	13° 7	24°58	20°34	17° 9	1°31	5°45	8°56	10° 5	19°32	24°52	F 15
S 16	19 37 26	23°47'44	8 <b>∡</b> 749	29958	9°15	13°48	25° 8	20°36	17° 9	1°30	5°46	8°50	10° 2	19°39	24°57	S 16
S 17	19 41 23	24°44'59	2 <u>1</u> °32	29°17	10° 9	14°29	25°18	20°38	17° 8	1°29	5°47	8°43	9°59	19°45	25° 2	S 17
M18	19 45 19	25°42'15	4 <b>궁</b> 33	28°35	11° 3	15°10	25°29	20°39	17° 8	1°28	5°48	8°36	9°55	19°52	25° 7	M18
T 19	19 49 16	26°39'32	17°53	27°53	11°56	15°50	25°39	20°41	17° 7	1°27	5°49	8°29	9°52	19°59	25°12	T 19
W20	19 53 13	27°36'49	1≈30	27°10	12°49	16°31	25°49	20°42	17° 7	1°27	5°50	8°23	9°49	20° 5	25°18	W20
T 21	19 57 9	28°34'07	15°21	26°28	13°42	17°11	25°59	20°43	17° 7	1°26	5°51	8°20	9°46	20°12	25°23	T 21
F 22	20 1 6	29°31'26	29°24	25°48	14°33	17°51	26° 8	20°45	17° 6	1°25	5°52	8°18	9°43	20°19	25°28	F 22
S 23	20 5 2	0 <b>Ω</b> 28'45	13 <b>¥</b> 34	25°10	15°24	18°31	26°18	20°46	17° 6	1°25	5°53	8°D18	9°40	20°25	25°33	S 23
S 24	20 8 59	1°26'06	27°48	24°35	16°15	19°11	26°28	20°47	17° 6	1°24	5°54	8°19	9°36	20°32	25°38	S 24
M25	20 12 55	2°23'27	12 <b>°</b> 3	24° 4	17° 4	19°51	26°37	20°47	17° 6	1°23	5°55	8°20	9°33	20°39	25°43	M25
T 26	20 16 52	3°20'50	26°17	23°37	17°53	20°31	26°46	20°48	17°D 6	1°23	5°55	8°21	9°30	20°45	25°47	T 26
W27	20 20 48	4°18'14	10827	23°15	18°41	21°11	26°56	20°49	17° 6	1°22	5°56	8°R21	9°27	20°52	25°52	W27
T 28	20 24 45	5°15'39	24°33	22°59	19°29	21°50	27° 5	20°49	17° 6	1°22	5°57	8°20	9°24	20°59	25°57	T 28
F 29	20 28 42	6°13'06	8 <b>I</b> I31	22°48	20°15	22°30	27°14	20°50	17° 6	1°21	5°58	8°17	9°21	21° 6	26° 2	F 29
S 30	20 32 38	7°10'34	22°20	22°D44	21° 1	23° 9	27°22	20°50	17° 7	1°21	5°59	8°13	9°17	21°12	26° 7	S 30
S 31	20 36 35	8 <b>N</b> 8'02	5957	229545	21 Mp 46	23 <b>8</b> 48	27 <b>8</b> 31	20 <b>Y</b> 51	17 <b>M</b> 7	1 <b>₹</b> 20	5 <b>Ⅱ</b> 59	8 Mp 8	9 <b>m</b> 14	21 <b>≏</b> 19	26 <b>I</b> I11	S 31

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	decl	decl lat	decl	lat c	lecl lat	decl lat	decl	lat	decl	lat	decl	lat	decl lat	t	decl lat	decl	decl	decl	decl lat	
F 1 S 2	23n 9 23 4	14n55 4s 17 17 5	558 18n 6 4 17 47	1 s33 14 1 48 14			28 17n29 28 17 32	0 s 5 6 0 5 6	5n33 5 34		16 s45 16 45				10n14 11s11 10 15 11 11	7n54 7 58	7n31 7 32	4s11 4 13	-	s20 20
S 3 M 4 T 5 W 6	23 0 22 54 22 49 22 43	18 44 4 17 48 3	52 17 29 22 17 11 38 16 55 43 16 40	2 18 13 2 33 12	16 1 3 51 0 58	12 1 1 12 15 1	27 17 35 27 17 38 27 17 41 26 17 44	0 56 0 56	5 35 5 36 5 37 5 38	2 28 2 28 2 28 2 28	16 44	0 18 0 18	18 54 1 18 54 1	1 41 1 41	10 15 11 11 10 15 11 12 10 15 11 12 10 15 11 12	8 1 8 4 8 8 8 10	7 34 7 35 7 36 7 37	4 15 4 17 4 19 4 21	18 0 5 18 0 5	20 20 21 21
T 7 F 8 S 9	22 37 22 30 22 23	13 18 1 10 6 0		3 2 12 3 17 11	0 0 49 35 0 44	12 43 1 12 57 1	26 17 46 25 17 49 25 17 52	0 57 0 57	5 38 5 39 5 40	2 29 2 29	16 44	0 18 0 18 0 18	18 53 1 18 53 1 18 53 1	1 40 1 40	10 15 11 12 10 15 11 12 10 15 11 12 10 15 11 12	8 11 8 12 8 12	7 38 7 40 7 41	4 22 4 24 4 26	18 0 5 18 0 5	21 21 21 22
S 10 M11 T 12 W13 T 14 F 15	22 16 22 8 22 0 21 51 21 42 21 33	1s 4 2 4 50 3 8 24 4		3 56 10 4 8 9 4 19 9 4 29 8	17 0 28 51 0 22 25 0 17 59 0 11	13 38 1 13 51 1 14 4 1 14 17 1	25 17 54 24 17 57 24 18 0 23 18 2 23 18 5 22 18 7	0 57 0 57 0 57 0 57	5 41 5 41 5 42 5 42 5 43 5 43	2 30 2 30 2 30 2 31	-	0 18 0 18 0 18 0 18	18 53 1 18 52 1 18 52 1 18 52 1	1 40 1 40 1 40 1 40	10 15 11 12 10 15 11 12 10 15 11 12 10 15 11 13 10 15 11 13 10 15 11 13	8 12 8 11 8 11 8 11 8 12 8 14	7 42 7 43 7 44 7 46 7 47 7 48	4 28 4 30 4 32 4 34 4 36 4 37	18 0 5 18 0 5 18 0 5 18 0 5	22 22 22 23 23 23
S 16 S 17 M18 T 19	21 13 21 3		9 15 34 1 15 37 38 15 41 59 15 48	4 50 7 4 53 7	39 0 8 13 0 14	14 55 1 15 8 1	22 18 10 21 18 12 21 18 14 20 18 17	0 57 0 57	5 44 5 44 5 45	2 31 2 32	-	0 18 0 18	18 52 1 18 52 1	1 40 1 40	10 15 11 13 10 15 11 13 10 15 11 13 10 15 11 13	8 16 8 19 8 22 8 24	7 49 7 50 7 52 7 53	4 39 4 41 4 43 4 45	18 0 5 18 0 5	23 24 24 24
W20 T 21 F 22 S 23	20 29	10 57 0	6 15 55 1 16 4 48 16 15 529 16 26	4 55 5 4 52 5	53 0 35 27 0 42	15 44 1 15 56 1	20 18 19 19 18 21 18 18 23 18 18 26		5 45 5 45 5 45 5 45	2 32 2 33	16 42 16 42 16 41 16 41	0 18 0 18 0 18	18 51 1 18 51 1 18 51 1	1 40 1 40	10 15 11 14 10 15 11 14 10 15 11 14 10 15 11 14	8 26 8 28 8 28 8 29	7 54 7 55 7 56 7 58	4 51	17 59 5 17 59 5	25 25 25 26
S 24 M25 T 26 W27 T 28 F 29 S 30		2n 6 2 6 33 3 10 37 4 14 2 5 16 37 5	44 16 39 54 16 52 52 17 6 36 17 20 3 17 35 12 17 49 3 18 4	4 32 4 4 23 3 4 12 3 4 0 2 3 47 2	42 1 12 16 1 20 50 1 28 24 1 36	16 30 1 16 41 1 16 52 1 17 3 1 17 14 1	17 18 28 17 18 30 16 18 32 15 18 34 15 18 36 14 18 38	0 58 0 58 0 58 0 58 0 58	5 45 5 46 5 46 5 46 5 45	2 34 2 34 2 34 2 34 2 35	16 41 16 41 16 42 16 42	0 18 0 18 0 18 0 18 0 18	18 51 1 18 51 1 18 51 1 18 51 1 18 51 1	1 40 1 39 1 39 1 39 1 39	10 15 11 14 10 15 11 14 10 15 11 14 10 15 11 15 10 15 11 15 10 15 11 15	8 28 8 28 8 27 8 27 8 28 8 29	7 59 8 0 8 1 8 2 8 4 8 5	4 56 4 58 5 0 5 2 5 4	17 59 5 17 59 5 17 58 5 17 58 5 17 58 5	26 26 26 27 27 28
S 31		18 13 5 18n45 4s	3 18 4 s37 18n18				13 18 40 13 18n42		5 45 5n45		16 42 16 s42				10 15 11 15 10n15 11s15	8 30 8n32	8 6 8n 7			28 s28

Julian Day Number = 2321700.5, Delta T = 47.17 sec

Ecliptic obliquity =  $23^{\circ}28'58$ , Nutation = - $0^{\circ}00'06$ , out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 19°46'42, Lahiri = 18°53'42Greg. Calendar

AUGUST 1644 GC 00:00 UT

Audi	JJ: 107	T UC													00.0	0.
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M 1	20 40 31	9 <b>N</b> 5'33	199522	22954	22 <b>m</b> 30	24827	27840	20 <b>Y</b> 51	17 <b>M</b> 7	1°R20	6 <b>I</b> I 0	8°R 4	9 <b>m</b> )11	21 <b>≏</b> 26	26 <b>I</b> I16	M 1
T 2	20 44 28	10° 3'04	$2\Omega$ 32	23° 9	23°14	25° 6	27°48	20°R51	17° 7	1 <b>才</b> 20	6° 1	8Mp 0	9°8	21°32	26°21	T 2
W 3	20 48 24	11° 0'36	15°26	23°31	23°56	25°44	27°56	20°51	17° 8	1°19	6° 1	7°57	9° 5	21°39	26°25	W 3
T 4	20 52 21	11°58'09	28° 4	23°59	24°37	26°23	28° 5	20°51	17° 8	1°19	6° 2	7°55	9° 1	21°46	26°30	T 4
F 5	20 56 17	12°55'44	10 <b>m</b> 28	24°35	25°17	27° 1	28°13	20°50	17° 9	1°19	6° 3	7°D55	8°58	21°52	26°34	F 5
S 6	21 0 14	13°53'19	22°38	25°17	25°56	27°39	28°20	20°50	17° 9	1°19	6° 3	7°56	8°55	21°59	26°39	S 6
S 7	21 4 11	14°50'55	4 <b>≏</b> 38	26° 6	26°34	28°18	28°28	20°49	17°10	1°18	6° 4	7°57	8°52	22° 6	26°43	S 7
M 8	21 8 7	15°48'33	16°31	27° 1	27°11	28°55	28°36	20°49	17°11	1°18	6° 4	7°59	8°49	22°12	26°47	M 8
T 9	21 12 4	16°46'11	28°21	28° 3	27°47	29°33	28°43	20°48	17°11	1°18	6° 5	8° 0	8°46	22°19	26°52	T 9
W10	21 16 0	17°43'51	10 <b>M</b> 13	29°11	28°21	0 <b>Ⅱ</b> 11	28°51	20°47	17°12	1°18	6° 6	8° 1	8°42	22°26	26°56	W10
T 11	21 19 57	18°41'31	22°11	0 <b>Ω</b> 25	28°54	0°48	28°58	20°46	17°13	1°18	6° 6	8°R 1	8°39	22°32	27° 0	T 11
F 12	21 23 53	19°39'13	4 <b>₹</b> 21	1°44	29°26	1°25	29° 5	20°45	17°14	1°18	6° 7	8° 1	8°36	22°39	27° 4	F 12
S 13	21 27 50	20°36'55	16°47	3° 9	29°57	2° 3	29°12	20°44	17°15	1°D18	6° 7	7°59	8°33	22°46	27° 8	S 13
S 14	21 31 46	21°34'39	29°31	4°39	0 <b>ჲ</b> 25	2°39	29°18	20°43	17°16	1°18	6° 8	7°57	8°30	22°52	27°12	S 14
M15	21 35 43	22°32'24	12 <b>る</b> 38	6°13	0°53	3°16	29°25	20°42	17°17	1°18	6° 8	7°55	8°26	22°59	27°16	M15
T 16	21 39 40	23°30'10	26° 8	7°52	1°18	3°53	29°31	20°40	17°18	1°18	6° 8	7°53	8°23	23° 6	27°20	T 16
W17	21 43 36	24°27'58	10≈ 0	9°34	1°42	4°29	29°38	20°39	17°19	1°18	6° 9	7°52	8°20	23°12	27°24	W17
T 18	21 47 33	25°25'47	24°12	11°20	2° 5	5° 5	29°44	20°37	17°20	1°18	6° 9	7°51	8°17	23°19	27°28	T 18
F 19	21 51 29	26°23'37	8 <b>)</b> (39	13° 9	2°25	5°42	29°50	20°36	17°21	1°18	6°10	7°D50	8°14	23°26	27°32	F 19
S 20	21 55 26	27°21'29	23°15	15° 0	2°44	6°17	29°55	20°34	17°23	1°19	6°10	7°51	8°11	23°33	27°35	S 20
S 21	21 59 22	28°19'22	7 <b>Y</b> 55	16°53	3° 1	6°53	0 <b>I</b> 1	20°32	17°24	1°19	6°10	7°51	8° 7	23°39	27°39	S 21
M22	22 3 19	29°17'18	22°33	18°48	3°16	7°29	0° 6	20°30	17°25	1°19	6°11	7°52	8° 4	23°46	27°43	M22
T 23	22 7 15	0 mp 15'15	7 <b>8</b> 2	20°44	3°29	8° 4	0°12	20°28	17°27	1°20	6°11	7°53	8° 1	23°53	27°46	T 23
W24	22 11 12	1°13'14	21°20	22°41	3°40	8°39	0°17	20°26	17°28	1°20	6°11	7°53	7°58	23°59	27°50	W24
T 25	22 15 9	2°11'15	5 <b>Ⅱ</b> 23	24°39	3°49	9°14	0°22	20°23	17°30	1°20	6°11	7°R53	7°55	24° 6	27°53	T 25
F 26	22 19 5	3° 9'18	19°11	26°37	3°56	9°49	0°26	20°21	17°31	1°21	6°12	7°53	7°52	24°13	27°56	F 26
S 27	22 23 2	4° 7'23	29643	28°34	4° 0	10°23	0°31	20°19	17°33	1°21	6°12	7°53	7°48	24°19	28° 0	S 27
S 28	22 26 58	5° 5'30	15°59	0 <b>m</b> 32	4° 3	10°57	0°35	20°16	17°35	1°22	6°12	7°52	7°45	24°26	28° 3	S 28
M29	22 30 55	6° 3'39	29° 0	2°29	4°R 3	11°32	0°40	20°13	17°36	1°22	6°12	7°52	7°42	24°33	28° 6	M29
T 30	22 34 51	7° 1'49	11 <b>Ω</b> 47	4°26	4° 0	12° 5	0°44	20°11	17°38	1°23	6°12	7°52	7°39	24°39	28° 9	T 30
W31	22 38 48	8 Mp 0'02	$24\Omega 22$	6Mp22	3 <b>≏</b> 56	12 <b>Ⅱ</b> 39	0 <b>Ⅱ</b> 48	20 <b>Y</b> 8	17 <b>M</b> .40	1 <b>₹</b> 23	6 <b>Ⅱ</b> 12	7°D52	7 <b>™</b> 36	24 <b>≏</b> 46	28 <b>I</b> I12	W31

Day	0	D	ğ	Q	o <sup>7</sup>	4	ħ	)Å(	并	Р	n	Ω	Ç	ķ
	decl	decl lat	decl lat	decl lat dec	lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl	decl	decl lat
M 1 T 2	18n 1 17 46		18n32 3s 3 18 45 2 47	1n 7 2s 2 17n4 0 42 2 10 17 5	_	18n44 0s58 18 45 0 58		16 s42 0n17 16 42 0 17		10n15 11s15 10 15 11 16			5s 9 5 11	17n57 5 s29 17 57 5 29
W 3	17 30		18 58 2 30					16 42 0 17		10 15 11 16		8 11	-	17 57 5 29
T 4	17 14		19 9 2 14			18 49 0 59	5 44 2 36	16 42 0 17		10 15 11 16	8 37 8	8 12	5 15	17 57 5 30
F 5 S 6	16 58 16 41	7 52 0n14 4 9 1 20	19 19 1 57 19 28 1 41	0 32 2 38 18 2 0 56 2 47 18 3		18 51 0 59 18 52 0 59	-	16 42 0 17 16 43 0 17	18 51 1 39 18 51 1 39			8 13 8 14	-	17 56 5 30 17 56 5 31
S 7	16 25	0 20 2 22	19 35 1 24	1 20 2 57 18 4	3 1 8	18 54 0 59	5 43 2 37	16 43 0 17	18 51 1 39	10 15 11 17	8 36 8	8 16	5 21	17 56 5 31
M 8	16 8	3 s28 3 17	-						18 51 1 39				-	17 55 5 31
T 9 W10	15 50 15 33	7 7 4 3 10 29 4 40	19 44 0 52 19 45 0 37		1 1 6				18 51 1 39 18 51 1 39					17 55 5 32 17 55 5 32
T 11				2 52 3 36 19 1	-	19 0 0 59			18 51 1 39			-		17 54 5 33
F 12			19 41 0 8			19 1 0 59	5 40 2 39							17 54 5 33
S 13	14 39	17 39 5 12	19 35 On 6	3 36 3 57 19 3	5 1 3	19 3 0 59	5 40 2 39	16 44 0 17	18 51 1 38	10 14 11 18	8 35	8 23	5 32	17 54 5 33
S 14			19 26 0 19							10 14 11 18		-		17 53 5 34
M15 T 16	14 2	18 34 4 20		4 17 4 18 19 5		19 5 1 0	5 38 2 39			-				17 53 5 34
W17	-		19 1 0 42 18 44 0 53	4 37 4 29 19 5 4 57 4 39 20	9 1 0	,	5 37 2 40 5 37 2 40							17 53 5 35 17 52 5 35
T 18	13 4	12 18 1 15		5 16 4 50 20 1			5 36 2 40							17 52 5 36
F 19	12 44	8 25 0s 4	18 2 1 11	5 34 5 1 20 2	0 57	19 10 1 0	5 35 2 40	16 46 0 17	18 52 1 38	10 13 11 19	8 39 8	8 30	5 43	17 51 5 36
S 20	12 25	3 58 1 24	17 37 1 18	5 51 5 12 20 2	0 57	19 11 1 0	5 34 2 41	16 47 0 17	18 52 1 38	10 13 11 19	8 39 8	8 31	5 45	17 51 5 37
S 21	12 5	0n43 2 39				19 13 1 0			18 52 1 38				-	17 51 5 37
M22	11 45	5 20 3 43		6 24 5 34 20 4			5 32 2 41			10 13 11 19			-	17 50 5 38
T 23	11 24	9 35 4 33				19 15 1 0	5 31 2 41			10 13 11 20		8 35		17 50 5 38 17 49 5 39
W24 T 25	11 4 10 43	13 14 5 4 16 2 5 17			0 53	19 16 1 1 19 16 1 1	5 30 2 42 5 29 2 42		18 52 1 38 18 52 1 38	10 13 11 20 10 12 11 20			5 52 5 54	17 49 5 39
F 26	10 43				8 0 51	19 17 1 1		16 49 0 17					5 56	
S 27	-		13 39 1 46			19 18 1 1		16 50 0 17				8 39		17 48 5 40
S 28	9 40	18 23 4 10	12 58 1 47	7 42 6 39 21 2	0 49	19 19 1 1	5 26 2 42	16 50 0 17	18 53 1 38	10 12 11 21	8 38 8	8 41	6 0	17 48 5 41
M29	9 18						-	16 51 0 17				8 42	-	17 47 5 41
T 30	8 57		11 33 1 46			19 21 1 1			18 53 1 37	10 11 11 21		8 43	-	17 47 5 42
W31	8n35	12n15 1s14	10n49 1n45	8s 7 7s 9 21n3	0 s45	19n21 1s 1	5n22 2s43	16 s52 0n17	18 s 53 1 n 3 7	10n11 11s21	8n38 8	8n44	6s 6	17n46 5 s42

Julian Day Number = 2321731.5, Delta T = 47.11 sec Ecliptic obliquity =  $23^{\circ}28'59$ , Nutation = -  $0^{\circ}00'05$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}46'46$ , Lahiri =  $18^{\circ}53'47$ Greg. Calendar

SEPTEMBER 1644 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂ <sup>™</sup>	4	ħ	)∤(	¥	Р	r	v	Ç	ę,	Day
T 1	22 42 44	8 <b>m</b> 58'16	6 <b>m</b> 44	8 <b>m</b> )17	3°R49	13 <b>Ⅱ</b> 12	0Д51	20°R 5	17 <b>M</b> 42	1 <b>才</b> 24	6 <b>Ⅱ</b> 13	7°R52	7 <b>m</b> 32	24 <b>₽</b> 53	28 <b>Ⅲ</b> 15	T 1
F 2	22 46 41	9°56'32	18°55	10°11	3 <b>॒</b> 39	13°45	0°55	20 <b>Υ</b> 2	17°44	1°25	6°13	7 <b>m</b> 52	7°29	24°59	28°18	F 2
S 3	22 50 38	10°54'50	0 <b>ჲ</b> 58	12° 4	3°28	14°18	0°58	19°59	17°46	1°25	6°13	7°52	7°26	25° 6	28°21	S 3
S 4	22 54 34	11°53'09	12°53	13°57	3°13	14°51	1° 1	19°56	17°48	1°26	6°13	7°51	7°23	25°13	28°23	S 4
M 5	22 58 31	12°51'30	24°44	15°48	2°57	15°23	1° 4	19°53	17°50	1°27	6°R13	7°51	7°20	25°20	28°26	M 5
T 6	23 2 27	13°49'53	6MJ34	17°38	2°38	15°56	1° 7	19°49	17°52	1°27	6°13	7°50	7°17	25°26	28°29	T 6
W 7	23 6 24	14°48'18	18°25	19°27	2°17	16°28	1° 9	19°46	17°54	1°28	6°13	7°49	7°13	25°33	28°31	W 7
T 8	23 10 20	15°46'44	0 <b>∡</b> 122	21°15	1°54	16°59	1°12	19°42	17°56	1°29	6°13	7°49	7°10	25°40	28°33	T 8
F 9	23 14 17	16°45'12	12°30	23° 2	1°29	17°31	1°14	19°39	17°58	1°30	6°13	7°D48	7° 7	25°46	28°36	F 9
S 10	23 18 13	17°43'41	24°52	24°48	1° 1	18° 2	1°16	19°35	18° 0	1°31	6°12	7°48	7° 4	25°53	28°38	S 10
S 11	23 22 10	18°42'13	7 <b>云</b> 33	26°33	0°32	18°32	1°18	19°32	18° 3	1°32	6°12	7°49	7° 1	26° 0	28°40	S 11
M12	23 26 6	19°40'45	20°37	28°16	0° 1	19° 3	1°19	19°28	18° 5	1°33	6°12	7°50	6°58	26° 6	28°42	M12
T 13	23 30 3	20°39'20	4≈ 6	29°59	29 <b>m</b> 29	19°33	1°21	19°24	18° 7	1°34	6°12	7°51	6°54	26°13	28°45	T 13
W14	23 34 0	21°37'56	18° 2	1 <b>≏</b> 41	28°55	20° 3	1°22	19°20	18°10	1°35	6°12	7°52	6°51	26°20	28°47	W14
T 15	23 37 56	22°36'34	2 <b>)</b> 22	3°21	28°21	20°33	1°23	19°16	18°12	1°36	6°12	7°R52	6°48	26°26	28°48	T 15
F 16	23 41 53	23°35'14	17° 5	5° 1	27°45	21° 2	1°24	19°12	18°15	1°37	6°11	7°52	6°45	26°33	28°50	F 16
S 17	23 45 49	24°33'55	2 <b>Υ</b> 2	6°39	27° 9	21°31	1°24	19° 8	18°17	1°38	6°11	7°51	6°42	26°40	28°52	S 17
S 18	23 49 46	25°32'39	17° 6	8°17	26°32	22° 0	1°25	19° 4	18°20	1°39	6°11	7°50	6°38	26°46	28°54	S 18
M19	23 53 42	26°31'25	2 <b>8</b> 8	9°54	25°55	22°29	1°R25	19° 0	18°22	1°40	6°11	7°47	6°35	26°53	28°55	M19
T 20	23 57 39	27°30'13	16°59	11°29	25°18	22°57	1°25	18°56	18°25	1°42	6°10	7°45	6°32	27° 0	28°57	T 20
W21	0 1 35	28°29'03	1 <b>II</b> 33	13° 4	24°41	23°25	1°25	18°51	18°28	1°43	6°10	7°43	6°29	27° 7	28°58	W21
T 22	0 5 32	29°27'56	15°45	14°38	24° 5	23°52	1°24	18°47	18°30	1°44	6°10	7°41	6°26	27°13	29° 0	T 22
F 23	0 9 29	0 <b>≏</b> 26'51	29°33	16°11	23°30	24°19	1°24	18°43	18°33	1°45	6° 9	7°D40	6°23	27°20	29° 1	F 23
S 24	0 13 25	1°25'49	129559	17°43	22°55	24°46	1°23	18°38	18°36	1°47	6° 9	7°41	6°19	27°27	29° 2	S 24
S 25	0 17 22	2°24'48	26° 3	19°15	22°22	25°12	1°22	18°34	18°39	1°48	6° 9	7°42	6°16	27°33	29° 3	S 25
M26	0 21 18	3°23'50	8 <b>Ω</b> 48	20°45	21°51	25°38	1°21	18°29	18°42	1°49	6° 8	7°44	6°13	27°40	29° 4	M26
T 27	0 25 15	4°22'55	21°18	22°15	21°20	26° 4	1°19	18°25	18°45	1°51	6° 8	7°45	6°10	27°47	29° 5	T 27
W28	0 29 11	5°22'01	3 <b>m</b> 35	23°43	20°52	26°29	1°17	18°20	18°47	1°52	6° 7	7°R46	6° 7	27°53	29° 6	W28
T 29	0 33 8	6°21'10	15°43	25°11	20°26	26°54	1°16	18°16	18°50	1°54	6° 7	7°46	6° 3	28° 0	29° 7	T 29
F 30	0 37 4	7 <b>≏</b> 20'21	27 <b>m</b> )44	26 <b>₽</b> 38	20 <b>m</b> 1	27 <b>I</b> 19	1∏14	18 <b>Y</b> 11	18 <b>M</b> .53	1 <b>₹</b> 55	6 <b>I</b> I 6	7 <b>m</b> ) 44	6MD 0	28 <b>♀</b> 7	29耳 8	F 30

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F 2	7 51	5 20 1	n 1	9 19	1 41	8 18	7 28	21 47	0 43	19 22	1 2	5 19	2 44	16 53	0 17	18 54	1 37	10 11	11 22	8 38	8 47	6 9	17 45	5 43
S 3	7 29	1 31 2	2 5	8 33	1 38	8 22	7 37	21 52	0 42	19 23	1 2	5 18	2 44	16 53	0 17	18 54	1 37	10 11	11 22	8 38	8 48	6 11	17 45	5 44
S 4	7 7	2s18 3	3 2	7 47	1 34	8 24	7 46	21 57	0 41	19 24	1 2	5 17	2 44	16 54	0 17	18 54	1 37	10 11	11 22	8 38	8 49	6 13	17 44	5 44
M 5	6 45	6 0 3	52	7 0	1 30	8 25	7 54	22 2	0 40	19 24	1 2	5 15	2 44	16 55	0 17	18 54	1 37	10 10	11 22	8 39	8 50	6 15	17 44	5 45
T 6	6 22	9 27 4	1 31	6 13	1 26	8 25	8 2	22 6	0 38	19 25	1 2	5 14	2 44	16 55	0 17	18 54	1 37	10 10	11 23	8 39	8 51	6 17	17 43	5 45
W 7	6 0	12 33 4	1 59	5 26	1 22	8 23	8 9	22 11	0 37	19 25	1 2	5 12	2 45	16 56	0 17	18 55	1 37	10 10	11 23	8 39	8 52	6 19	17 43	5 46
T 8	5 37	15 8 5	5 14	4 39	1 17	8 19	8 15	22 15	0 36	19 25	1 2	5 11	2 45	16 56	0 17	18 55	1 37	10 10	11 23	8 39	8 54	6 20	17 42	5 46
F 9	5 14	17 7 5	5 16	3 52	1 12	8 15	8 21	22 19	0 35	19 26	1 2	5 9	2 45	16 57	0 17	18 55	1 37	10 10	11 23	8 39	8 55	6 22	17 42	5 47
S 10	4 52	18 20 5	5 3	3 5	1 6	8 8	8 26	22 23	0 33	19 26	1 2	5 8	2 45	16 58	0 17	18 55	1 37	10 9	11 23	8 39	8 56	6 24	17 41	5 48
S 11	4 29	18 41 4	1 35	2 18	1 0	8 1	8 31	22 27	0 32	19 26	1 3	5 6	2 45	16 58	0 16	18 56	1 37	10 9	11 24	8 39	8 57	6 26	17 41	5 48
M12	4 6	-	53	1 31	0 54	7 52		22 31		19 26	1 3	5 5	2 45	16 59	0 16	18 56			11 24	8 39	8 58	6 28	17 40	5 49
T 13	3 43	16 25 2	2 56	0 45	0 48	7 42		22 35	0 29	19 27	1 3	5 3	2 46	17 0	0 16	18 56	1 37		11 24	8 39	9 0	6 30	17 39	5 49
W14			48	0s 2	0 42	7 30		22 39		19 27	1 3	5 2	2 46			18 56	1 37		11 24	8 38	9 1	6 32		5 50
T 15	2 56	10 11 0	30	0 48	0 35	7 17		22 42		19 27	1 3	5 0	2 46	17 1	0 16	18 57	1 37		11 24	8 38	9 2	6 34	17 38	5 50
F 16	2 33	5 53 0	)s51	1 34	0 29	7 3	8 40	22 45	0 25	19 27	1 3	4 58	2 46	17 2	0 16	18 57	1 36	10 8	11 25	8 38	9 3	6 35	17 38	5 51
S 17	2 10	1 10 2	2 10	2 19	0 22	6 48	8 39	22 49	0 24	19 27	1 3	4 57	2 46	17 3	0 16	18 57	1 36	10 8	11 25	8 38	9 4	6 37	17 37	5 51
S 18	1 46	3n39 3	3 20	3 4	0 15	6 31	8 37	22 52	0 23	19 27	1 3	4 55	2 46	17 3	0 16	18 57	1 36	10 7	11 25	8 39	9 5	6 39	17 37	5 52
M19	1 23	8 13 4	17	3 48	0 8	6 14	8 34	22 55	0 21	19 27	1 3	4 53	2 46	17 4	0 16	18 58	1 36	10 7	11 25	8 40	9 7	6 41	17 36	5 53
T 20	1 0	12 13 4	1 55	4 33	0 1	5 56	8 31	22 58	0 20	19 27	1 3	4 52	2 47	17 5	0 16	18 58	1 36	10 7	11 25	8 41	9 8	6 43	17 36	5 53
W21	0 36	15 23 5	5 13	5 16	0s 7	5 38	8 26	23 1	0 18	19 27	1 4	4 50	2 47	17 6	0 16	18 58	1 36	10 7	11 26	8 42	9 9	6 45	17 35	5 54
T 22	0 13	17 33 5	5 12	5 59	0 14	5 18	8 21	23 4	0 17	19 26	1 4	4 48	2 47	17 6	0 16	18 59	1 36	10 7	11 26	8 42	9 10	6 47	17 34	5 54
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S 24	0 34	18 35 4	18	7 24	0 28	4 38	8 7	23 9	0 14	19 26	1 4	4 45	2 47	17 8	0 16	18 59	1 36	10 6	11 26	8 42	9 12	6 50	17 33	5 56
S 25			3 30	8 6	0 36	4 18	7 59	23 12	0 12	19 26	1 4	4 43	2 47	17 9	0 16	18 59	1 36	10 6	11 26	8 42	9 14	6 52	17 33	5 56
M26	1 21	15 38 2	2 33	8 47	0 43	3 57		23 14	0 11	19 25	1 4	4 41	2 47	17 10	0 16	19 0	1 36	10 6	11 26	8 41	9 15	6 54	17 32	5 57
T 27	1 45	13 1 1	29	9 27	0 50	3 37	7 41	23 17		19 25	1 4	4 39	2 47	17 10	0 16	19 0	1 36	10 5	11 27	8 41	9 16	6 56	17 31	5 57
W28	2 8	9 51 0	23	10 7	0 57	3 17	7 31	23 19	0 7	19 25	1 4	4 37	2 47	17 11	0 16	19 0	1 36	10 5	11 27	8 40	9 17	6 58	17 31	5 58
T 29	2 32	6 19 0	)n44	10 46	1 5	2 57	7 20	23 21	0 6	19 24	1 4	4 36	2 47	17 12	0 16	19 1	1 36	10 5	11 27	8 40	9 18	7 0	17 30	5 59
F 30	2 s55	2n33 1	n47	11 s24	1 s12	2 s37	7s 9	23n23	0s 4	19n24	1 s 4	4n34	2 s47	17 s13	0n16	19s 1	1n36	10n 5	11 s27	8n41	9n20	7 s 1	17n30	5 s 5 9

 $\label{eq:Julian Day Number = 2321762.5, Delta T = 47.05 sec} \\ Ecliptic obliquity = 23°29'00, Nutation = -0°00'06, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°46'50, Lahiri = 18°53'51Greg. Calendar \\ \\$ 

OCTOBER 1644 GC 00:00 UT

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0 44 57	9°18'48	21°30	29°29	19 <b>m</b> )19	28° 6	1 <b>I</b> 9	18 <b>Y</b> 2	18°59	1°58	6 <b>I</b> 5	7 <b>m</b> 36	5°54	28°20	29° 9	S 2
0 48 54	10°18'05	3M20	0 <b>M</b> .53	19° 1	28°30	1° 6	17°57	19° 3	2° 0	6° 5	7°31	5°51	28°27	29° 9	M 3
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2 31 24	6°10'44	18°30	25°R55	24°25	5°29	28°56	15°56	20°31	2°47	5°44	6°14	4°28	1°21	28°51	S 29
2 35 21	7°10'55	0 <b>M</b> .20	25°53	25° 2	5°36	28°48	15°52	20°35	2°49	5°43	6° 5	4°25	1°28	28°50	S 30
2 39 18	8ML11'08	12 <b>M</b> 12	25 <b>M</b> 42	25 <b>m</b> 40	59643	28841	15 <b>Y</b> 48	20 <b>M</b> 38	2 <b>₹</b> 51	5 <b>Ⅱ</b> 42	5 <b>m</b> 53	4 Mp 22	1 <b>M</b> .34	28 <b>Ⅱ</b> 48	M31
	Sid.t  0 41 1  0 44 57  0 48 54  0 52 51  0 56 47  1 0 44 40  1 8 37  1 12 33  1 16 30  1 20 26  1 24 23  1 28 20  1 32 16  1 36 13  1 40 9  1 44 6  1 48 2  1 51 59  1 55 55  1 59 52  2 3 49  2 7 45  2 11 42  2 15 38  2 19 35  2 23 31  2 27 28  2 31 24  2 35 21	0 41 1 8 19'33 0 44 57 9°18'48 0 48 54 10°18'05 0 52 51 11°17'24 0 56 47 12°16'45 1 0 44 13°16'08 1 4 40 14°15'33 1 8 37 15°14'59 1 12 33 16°14'28 1 16 30 17°13'58 1 20 26 18°13'30 1 24 23 19°13'03 1 28 20 20°12'38 1 32 16 21°12'15 1 36 13 22°11'54 1 40 9 23°11'35 1 44 6 24°11'18 1 48 2 25°11'03 1 51 59 52 28°10'32 2 3 49 29°10'26 2 7 45 0ML10'22 2 11 42 1°10'21 2 15 38 2°10'21 2 19 35 3°10'24 2 23 31 4°10'29 2 27 28 5°10'35 2 31 24 6°10'44 2 35 21 7°10'55	Sid.t         ⊙         ⋑           0 41 1         8 □ 19'33         9 □ 39           0 44 57         9°18'48         21°30           0 48 54         10°18'05         3 □ 20           0 52 51         11°17'24         15°11           0 56 47         12°16'45         27°4           1 0 44         13°16'08         9 ⋈         2           1 4 40         14°15'33         21° 9           1 8 37         15°14'59         3 ⋈         28           1 12 33         16°14'28         16° 4         16° 4           1 16 30         17°13'58         29° 0         0         12∞21           1 24 23         19°13'03         26° 8         128 20         20°12'38         10 ⋈         24           1 32 16         21°12'15         25° 6         6         1 36 13         22°11'54         10 ⋈         9           1 40 9         23°11'35         25°25         1 44 6         24°11'18         10 ⋈44         1 48 2         25°11'03         25°51           1 55 55         27°10'40         25°11         15 55         27°10'40         25°11           1 59 52         28°10'32         96° 9         23 49         29°10'26 <t< td=""><td>Sid.t         ⊙         ⋑         ♥           0 41 1         8 □ 19'33         9 □ 39         28 □ 4           0 44 57         9°18'48         21°30         29°29           0 48 54         10°18'05         3 □ 20         0 □ 53           0 52 51         11°17'24         15°11         2°16           0 56 47         12°16'45         27° 4         3°38           1 0 44         13°16'08         9 ⋈ 2         4°59           1 4 40         14°15'33         21° 9         6°19           1 8 37         15°14'59         3 □ 28         7°38           1 12 33         16°14'28         16° 4         8°56           1 16 30         17°13'58         29° 0         10°12           1 20 26         18°13'30         12≈21         11°27           1 24 23         19°13'03         26° 8         12°40           1 28 20         20°12'38         10 ⋈ 24         13°52           1 32 16         21°12'15         25° 6         15° 1           1 36 13         22°11'54         10 ⋈ 9         16° 9           1 40 9         23°11'35         25°25         17°15           1 44 6         24°11'18         10 ⋈ 44</td><td>Sid.t         ⊙         ⋑         ♥         ♀           0 41 1         8 □ 19'33         9 □ 39         28 □ 4         19°R39           0 44 57         9°18'48         21°30         29°29         19 ⋈ 19           0 48 54         10°18'05         3 ⋈ 20         0 ⋈ 53         19° 1           0 52 51         11°17'24         15°11         2°16         18°46           0 56 47         12°16'45         27° 4         3°38         18°33           1 0 44         13°16'08         9 ⋈ 2         4°59         18°22           1 4 40         14°15'33         21° 9         6°19         18°14           1 8 37         15°14'59         3 ≅28         7°38         18° 9           1 12 33         16°14'28         16° 4         8°56         18° 5           1 16 30         17°13'58         29° 0         10°12         18°10         5           1 20 26         18°13'30         12≈21         11°27         18° 6         12° 40         18°10           1 28 20         20°12'38         10 € 8         12° 40         18°10         18°16           1 28 20         20°12'38         10 € 4         18°50         18°16           1 32 16</td><td>Sid.t         ⊙         ⊅         ♥         Q         ♂           0 41 1         8 □ 19'33         9 □ 39         28 □ 4         19°R39         27 □ 43           0 44 57         9°18'48         21°30         29°29         19 □ 19         28° 6           0 48 54         10°18'05         3 □ 20°15         19° 1         28°30           0 55 251         11°17'24         15°11         2°16         18°46         28°52           0 56 47         12°16'45         27° 4         3°38         18°33         29°15           1 0 44         13°16'08         9 ⋈ 2         4°59         18°22         29°36           1 4 40         14°15'33         21° 9         6°19         18°14         29°58           1 8 37         15°14'59         3 □ 28° 7°38         18° 9         0 □ 19           1 12 33         16°14'28         16° 4         8°56         18° 5         0°39           1 16 30         17°13'58         29° 0         10°12         18° 16         1°8           1 20 26         18°13'30         12≈21         11°27         18° 6         1°18           1 24 23         19°13'03         26° 8         12°40         18°10         1°37</td><td>Sid.t         ⊙         ⊅         ♥         Q         σ'         ¾           0 41 1         8 Ω 19'33         9 Ω 39         28 Ω 4         19°R39         27 Щ 43         1°R11           0 44 57         9°18'48         21°30         29°29         19 № 19         28° 6         1 ∭ 9           0 48 54         10°18'05         3 ∭ 20         0 ∭ 53         19° 1         28°30         1° 6           0 55 25 1         11°17'24         15°11         2°16         18°46         28°52         1° 4           0 56 47         12°16'45         27° 4         3°38         18°33         29°15         1° 0           1 0 44         13°16'08         9 🗷 2         4°59         18°22         29°36         0°57           1 4 40         14°15'33         21° 9         6°19         18°14         29°58         0°54           1 8 37         15°14'59         3 ♂28         7°38         18° 9         0©19         0°50           1 12 33         16°14'28         16° 4         8°56         18° 5         0°39         0°47           1 16 30         17°13'58         29° 0         10°12         18° 16         1°8         1°8           1 2 26</td><td>Sid.t         O         D         ♥         Q         ♂         ¼         ħ           0 41 1         8</td><td>Sid.t         ⊙         ⊅         ♥         Q         ♂         ¾         ½         ⅓           0 41 1         8 19°33         9 39         28 4         19°R39         27 143         1°R11         18°R 7         18 18 56           0 44 57         9°18′48         21°30         29°29         19 10 12         28°6         1 1 9         18°7         18 18°59           0 48 54         10°18′05         3 1 20         0 10°53         19° 1         28°6         1 1 9         18°7         19° 3           0 52 51         11°17′24         15°11         2°16   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     18°14         29°58         0°54         17°33         19°12         2° 4         6° 3         7°13</td><td>  Sid.t   □   □   □   □   □   □   □   □   □  </td><td>  Sid.t   O   D   Q   Q   C   D   D   Q   Q   C   D   D   D   D   D   D   D   D   D</td><td>  Sidt   O   D   Y   Q   O   D   Y   Q   O   D   Y   D   D   D   D   D   D   D   D</td></td></tr<></td></t<>	Sid.t         ⊙         ⋑         ♥           0 41 1         8 □ 19'33         9 □ 39         28 □ 4           0 44 57         9°18'48         21°30         29°29           0 48 54         10°18'05         3 □ 20         0 □ 53           0 52 51         11°17'24         15°11         2°16           0 56 47         12°16'45         27° 4         3°38           1 0 44         13°16'08         9 ⋈ 2         4°59           1 4 40         14°15'33         21° 9         6°19           1 8 37         15°14'59         3 □ 28         7°38           1 12 33         16°14'28         16° 4         8°56           1 16 30         17°13'58 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  1         8 37         15°14'28         16° 4         8°56         18° 5         0°39         0°47         17°29         19°22         2° 9         6° 1         1         1233</td> <td>Sid.t         O         D         ♥         Q         O²         Q         N         Y         Ψ         E         Ω           0 41 1         8 €19³33         9 €39         28 € 4         19°R39         27 ∏43         1°R11         18°R 7         18 ∭56         6°R 6         7°R41           0 44 57         9°18′48         21°30         29°29         19 № 1         28°86         1 ∭9         18°7 2         18°59         1°58         6 ∭5         7°№36           0 48 54         10°18′05         3 ∭20         0 ∭53         19° 1         28°30         1°6         17°57         19° 3         2° 0         6° 5         7°31           0 56 47         12°16′45         27° 4         3°38         18°33         29°15         1° 0         17°48         19° 9         2° 3         6° 3         7°18           1 0 44         13°16′08         9 № 2         2 ° 59         18°22         29°36         0°57         17°43         19°12         2° 4         6° 3         7°13           1 4 40         14°15′19         3 ™3         21° 9         6° 19         18°14         29°58         0°54         17°33         19°12         2° 4         6° 3         7°13</td> <td>  Sid.t   □   □   □   □   □   □   □   □   □  </td> <td>  Sid.t   O   D   Q   Q   C   D   D   Q   Q   C   D   D   D   D   D   D   D   D   D</td> <td>  Sidt   O   D   Y   Q   O   D   Y   Q   O   D   Y   D   D   D   D   D   D   D   D</td>	Sid.t         ⊙         ⊅         ♀         Q         ♂         ♀         ₽         №         №         ₽         P           0 41 1         8 € 19'33         9 € 39         28 € 4         19°R39         27 II 43         1°R11         18°R 7         18 III 56         1 ₹ 56         6°R 6           0 44 57         9°18'48         21°30         29°29         19 III 9         28° 6         1 II 9         18°Y 2         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S 2	3 42	5 3 3 37	12 39 1 26	5 1 59 6 45 23 2	8 0 1 19	9 22 1 5	4 30 2 48	17 15 0 16	19 2 1 36	10 4 11 28	8 44 9	22 7	5 17 29 6 0
M 3	4 5		3 13 15 1 33			9 22 1 5		17 15 0 16				23 7	7 17 28 6 1
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M24	11 54		21 45 2 59		0 44 19	9 1 1 6	3 51 2 47	17 35 0 16		9 58 11 31	9 10 9	48 7 4	46 17 16 6 13
T 25	12 15	10 46 0 31	21 51 2 57	7 1 21 1 54 <mark>24 1</mark>	0 46 18	8 59 1 6	3 49 2 47	17 36 0 16	19 11 1 35	9 58 11 31	9 9 9	49 7 4	48 17 15 6 14
W26	12 36	7 17 0n34	21 55 2 54	1 19 1 43 24 1	0 49 18	8 58 1 6	3 48 2 47	17 37 0 16	19 11 1 35	9 58 11 31	9 9 9	50 7 3	50 17 14 6 14
T 27	12 56	3 33 1 37				8 56 1 6		17 38 0 16		9 58 11 31			51 17 14 6 15
F 28	13 16		21 55 2 45			8 55 1 6			19 12 1 35	9 57 11 31			53 17 13 6 15
S 29	13 36	4 6 3 25	5 21 50 2 39	9 1 7 1 12 24 1	8 0 56 18	8 53 1 5	3 43 2 47	17 40 0 16	19 12 1 35	9 57 11 31	9 14 9		55 17 13 6 16
S 30	13 56		21 42 2 31				-		19 13 1 35	9 57 11 31			57 17 12 6 16
M31	14s16	11 s 7 4n37	7 21 s30 2 s21	0n55 0s52 24n2	3 1n 1 18	8n50 1s 5	3n40 2s46	17 s42 0n16	19s13 1n35	9n57 11 s31	9n22 9	156 7 s	59 17n12 6s17

Julian Day Number = 2321792.5, Delta T = 46.99 sec Ecliptic obliquity =  $23^{\circ}29'00$ , Nutation = -  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}46'55$ , Lahiri =  $18^{\circ}53'55$ Greg. Calendar

NOVEMBER 1644 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ	)/(	卉	Р	ន	v	Ç	, k	Day
T 1	2 43 14	9 <b>M</b> 11'22	24M 6	25°R21	26 <b>m</b> 20	59549	28°R34	15°R44	20 <b>M</b> 42	2 <b>₹</b> 53	5°R41	5°R40	4 <b>m</b> ) 19	1 <b>M</b> .41	28°R46	T 1
W 2	2 47 11	10°11'38	6 <b>√</b> 5	24M51	27° 0	5°55	28 <b>8</b> 27	15 <b>Y</b> 39	20°46	2°56	5 <b>Ⅱ</b> 40	5 <b>m</b> 28	4°15	1°48	28∏44	W 2
T 3	2 51 7	11°11'56	18° 9	24°10	27°42	5°59	28°19	15°35	20°49	2°58	5°39	5°16	4°12	1°54	28°42	T 3
F 4	2 55 4	12°12'16	0 <b>궁</b> 21	23°20	28°25	6° 3	28°12	15°31	20°53	3° 0	5°38	5° 7	4° 9	2° 1	28°40	F 4
S 5	2 59 0	13°12'37	12°43	22°21	29° 9	6° 6	28° 4	15°27	20°57	3° 2	5°37	5° 0	4° 6	2° 8	28°37	S 5
S 6	3 2 57	14°12'59	25°18	21°14	29°54	6° 8	27°56	15°24	21° 0	3° 4	5°36	4°56	4° 3	2°15	28°35	S 6
M 7	3 6 53	15°13'23	8≈10	20° 0	0 <b>ჲ</b> 40	6° 9	27°48	15°20	21° 4	3° 6	5°35	4°54	4° 0	2°21	28°33	M 7
T 8	3 10 50	16°13'48	21°23	18°42	1°27	6°R10	27°41	15°16	21° 8	3° 8	5°34	4°D54	3°56	2°28	28°30	T 8
W 9	3 14 47	17°14'15	4 <b>)</b> €58	17°21	2°15	6° 9	27°33	15°12	21°12	3°11	5°33	4°R55	3°53	2°35	28°28	W 9
T 10	3 18 43	18°14'43	19° 0	16° 1	3° 3	6° 8	27°25	15° 9	21°15	3°13	5°32	4°54	3°50	2°41	28°25	T 10
F 11	3 22 40	19°15'12	<b>3</b> Υ28	14°44	3°53	6° 6	27°17	15° 5	21°19	3°15	5°31	4°51	3°47	2°48	28°23	F 11
S 12	3 26 36	20°15'43	18°20	13°33	4°43	6° 3	27° 9	15° 2	21°23	3°17	5°30	4°46	3°44	2°55	28°20	S 12
S 13	3 30 33	21°16'14	3 <b>8</b> 29	12°29	5°34	5°59	27° 1	14°58	21°26	3°19	5°28	4°38	3°40	3° 1	28°17	S 13
M14	3 34 29	22°16'48	18°46	11°35	6°26	5°55	26°52	14°55	21°30	3°22	5°27	4°27	3°37	3° 8	28°14	M14
T 15	3 38 26	23°17'23	4 <b>II</b> 0	10°51	7°19	5°49	26°44	14°52	21°34	3°24	5°26	4°16	3°34	3°15	28°11	T 15
W16	3 42 22	24°17'59	19° 0	10°19	8°12	5°43	26°36	14°49	21°38	3°26	5°25	4° 5	3°31	3°22	28° 8	W16
T 17	3 46 19	25°18'37	3937	9°59	9° 7	5°35	26°28	14°46	21°41	3°28	5°24	3°55	3°28	3°28	28° 5	T 17
F 18	3 50 16	26°19'17	17°45	9°D50	10° 1	5°27	26°20	14°43	21°45	3°31	5°23	3°48	3°25	3°35	28° 2	F 18
S 19	3 54 12	27°19'58	1 <b>Ω</b> 22	9°52	10°57	5°18	26°12	14°40	21°49	3°33	5°22	3°44	3°21	3°42	27°59	S 19
S 20	3 58 9	28°20'41	14°30	10° 5	11°53	5° 9	26° 3	14°37	21°52	3°35	5°21	3°42	3°18	3°48	27°56	S 20
M21	4 2 5	29°21'26	27°13	10°27	12°49	4°58	25°55	14°35	21°56	3°37	5°19	3°41	3°15	3°55	27°53	M21
T 22	4 6 2	0 <b>₹</b> 22'12	9 <b>m</b> /34	10°58	13°47	4°46	25°47	14°32	22° 0	3°40	5°18	3°41	3°12	4° 2	27°49	T 22
W23	4 9 58	1°22'59	21°40	11°37	14°44	4°34	25°39	14°29	22° 3	3°42	5°17	3°40	3° 9	4° 9	27°46	W23
T 24	4 13 55	2°23'48	3 <b>₾</b> 36	12°23	15°43	4°21	25°31	14°27	22° 7	3°44	5°16	3°37	3° 6	4°15	27°43	T 24
F 25	4 17 51	3°24'39	15°26	13°15	16°41	4° 7	25°23	14°25	22°11	3°46	5°15	3°32	3° 2	4°22	27°39	F 25
S 26	4 21 48	4°25'31	27°15	14°12	17°41	3°52	25°15	14°23	22°14	3°49	5°14	3°24	2°59	4°29	27°36	S 26
S 27	4 25 45	5°26'24	9 <b>m</b> 5	15°14	18°40	3°36	25° 7	14°20	22°18	3°51	5°13	3°12	2°56	4°35	27°32	S 27
M28	4 29 41	6°27'18	21° 0	16°20	19°41	3°20	24°59	14°18	22°22	3°53	5°11	2°59	2°53	4°42	27°29	M28
T 29	4 33 38	7°28'14	3 <b>₹</b> 1	17°30	20°41	3° 3	24°51	14°16	22°25	3°55	5°10	2°44	2°50	4°49	27°25	T 29
W30	4 37 34	8 <b>~</b> 129'11	15 <b>×7</b> 9	18 <b>M</b> .42	21 <b>≏</b> 42	29545	24 <b>8</b> 43	14 <b>Υ</b> 15	22 <b>M</b> 29	3 <b>₹</b> 58	5 <b>I</b> I 9	2 Mp 29	2 Mp 46	4 <b>M</b> 55	27 <b>Ⅲ</b> 21	W30

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	decl	decl lat	decl lat	decl lat de	cl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl decl lat
T 1 W 2 T 3	14 s35 14 54 15 13	16 24 5 2	21s15 2s10 20 55 1 58 20 31 1 43	0n48	27 1 6	18n49 1s 5 18 47 1 5 18 46 1 5			19s14 1n35 19 14 1 35 19 15 1 35	9n56 11s31 9 56 11 31 9 56 11 31	9n27 9n57 9 31 9 58 9 36 9 59	8s 1 17n11 6s17 8 2 17 11 6 18 8 4 17 10 6 19
F 4 S 5	15 32 15 50	18 53 4 0	19 31 1 10	0 23 0 16 24 0 13 0 8 24	35 1 14	18 42 1 5		17 45 0 16 17 46 0 16	19 15 1 35 19 15 1 34	9 56 11 32 9 55 11 32	9 39 10 0 9 42 10 1	8 6 17 10 6 19 8 8 17 9 6 20
S 6 M 7 T 8	16 8 16 26 16 43	16 3 2 17 13 17 1 11		0 3 0n 1 24 0s 8 0 9 24 0 19 0 17 24	10 1 20 13 1 23	18 39 1 5 18 37 1 5	3 30 2 45 3 29 2 45	17 48 0 16 17 49 0 16	19 17 1 34	9 55 11 32 9 55 11 32 9 55 11 32	9 43 10 3 9 44 10 4 9 44 10 5	8 10 17 9 6 20 8 12 17 8 6 21 8 13 17 7 6 21
W 9 T 10 F 11 S 12	17 1 17 18 17 34 17 51	5 30 1 14 0 50 2 25	16 53 0n10 16 11 0 30 15 30 0 50 14 51 1 8		19 1 28 52 1 31	18 36 1 5 18 34 1 5 18 32 1 5 18 30 1 5	3 26 2 45 3 25 2 45	17 52 0 16	19 17 1 34 19 18 1 34 19 18 1 34 19 18 1 34	9 55 11 32 9 54 11 32 9 54 11 32 9 54 11 32	9 44 10 6 9 44 10 7 9 45 10 8 9 47 10 10	8 15 17 7 6 22 8 17 17 6 6 22 8 19 17 6 6 22 8 21 17 6 6 23
S 13 M14 T 15 W16 T 17 F 18 S 19	18 7 18 22 18 38 18 53 19 8	8 39 4 18 12 48 4 50 16 4 5 1 18 12 4 51 19 4 4 22 18 43 3 37	14 15 1 25 13 44 1 40 13 19 1 54 12 58 2 5	1 25 0 52 24 1 40 0 59 25 1 55 1 5 25 2 10 1 11 25 2 26 1 17 25 2 43 1 22 25	58 1 37 1 1 40 4 1 43 7 1 46 10 1 49 14 1 52		3 23 2 44 3 22 2 44 3 21 2 44 3 20 2 44 3 19 2 44	17 54 0 16 17 55 0 16 17 56 0 16 17 57 0 15 17 58 0 15 17 59 0 15	19 19 1 34 19 19 1 34	9 54 11 32 9 54 11 32 9 53 11 32 9 53 11 32 9 53 11 32 9 53 11 32	9 50 10 11 9 54 10 12 9 58 10 13 10 2 10 14 10 5 10 15	8 23 17 5 6 2: 8 24 17 5 6 2: 8 26 17 4 6 2: 8 30 17 3 6 2: 8 32 17 3 6 2: 8 32 17 3 6 2: 8 34 17 2 6 2:
S 20 M21 T 22 W23 T 24 F 25		14 55 1 40 11 56 0 34 8 29 0n31 4 45 1 34 0 53 2 31	12 30 2 30 12 35 2 31 12 44 2 32 12 57 2 31 13 12 2 30 13 31 2 27	3 17 1 33 25 3 34 1 38 25 3 52 1 43 25 4 10 1 47 25 4 28 1 52 25 4 47 1 56 25	20 1 58 24 2 0 27 2 3 81 2 6 84 2 9 87 2 12	18 16 1 4 18 14 1 4 18 13 1 4 18 11 1 3 18 9 1 3 18 7 1 3	3 16 2 43 3 15 2 43 3 14 2 43 3 14 2 42 3 13 2 42 3 12 2 42 3 12 2 42	18 1 0 15 18 2 0 15 18 3 0 15 18 4 0 15 18 5 0 15 18 6 0 15	19 22 1 34 19 22 1 34 19 23 1 34 19 23 1 34 19 24 1 34	9 52 11 32 9 51 11 32	10 10 10 18 10 10 10 19 10 10 10 20 10 11 10 21 10 11 10 22 10 12 10 23 10 14 10 25 10 17 10 26	8 35 17 2 6 26 8 37 17 1 6 22 8 39 17 1 6 22 8 41 17 1 6 22 8 43 17 0 6 28 8 45 17 0 6 28 8 46 16 59 6 28
T 29	21 15 21 26 21 36 21 s46	13 20 4 53 15 54 4 59	14 13 2 19 14 37 2 14 15 1 2 9 15 s27 2n 3	6 4 2 11 25	18 2 21 51 2 24	18 4 1 3 18 2 1 3 18 0 1 2 17n59 1s 2	3 11 2 41 3 11 2 41 3 10 2 41 3n10 2s41	18 9 0 15 18 10 0 15		9 51 11 32 9 51 11 32	10 21 10 27 10 26 10 28 10 31 10 29 10n37 10n30	8 48 16 59 6 29 8 50 16 59 6 29 8 52 16 58 6 29 8 54 16n58 6s36

Julian Day Number = 2321823.5, Delta T = 46.93 sec Ecliptic obliquity = 23°28'59, Nutation = -0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°46'59, Lahiri = 18°53'59Greg. Calendar

DECEMBER 1644 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ş	ď	4	ħ	)∤(	¥	Р	u	ß	Ç	ķ	Day
T 1	4 41 31	9 <b>∡</b> 730′09	27 <b>×</b> 725	19 <b>M</b> .58	22 <u>₽</u> 44	2°R27	24°R36	14°R13	22 <b>M</b> 33	4 <b>₹</b> 0	5°R 8	2°R15	2 Mp 43	5M 2	27°R18	T 1
F 2	4 45 27	10°31'07	9 <b>ට</b> 50	21°15	23°46	295 8	24 <b>8</b> 28	14 <b>Y</b> 11	22°36	4° 2	5 <b>I</b> 7	2Mp 4	2°40	5° 9	27 <b>Ⅲ</b> 14	F 2
S 3	4 49 24	11°32'07	22°24	22°35	24°48	1°48	24°21	14°10	22°40	4° 5	5° 6	1°55	2°37	5°16	27°10	S 3
S 4	4 53 20	12°33'07	5≈ 9	23°56	25°51	1°28	24°13	14° 9	22°43	4° 7	5° 5	1°50	2°34	5°22	27° 7	S 4
M 5	4 57 17	13°34'08	18° 6	25°19	26°54	1° 7	24° 6	14° 7	22°47	4° 9	5° 4	1°47	2°31	5°29	27° 3	M 5
T 6	5 1 14	14°35'10	1 <b>米</b> 19	26°42	27°57	0°46	23°59	14° 6	22°50	4°11	5° 2	1°D47	2°27	5°36	26°59	T 6
W 7	5 5 10	15°36'12	14°49	28° 7	29° 1	0°24	23°52	14° 5	22°54	4°13	5° 1	1°R47	2°24	5°42	26°55	W 7
T 8	5 9 7	16°37'14	28°40	29°33	OM 5	0° 2	23°45	14° 4	22°57	4°16	5° 0	1°46	2°21	5°49	26°51	T 8
F 9	5 13 3	17°38'17	12 <b>Y</b> 51	1 <b>√</b> 0	1° 9	29∏39	23°38	14° 3	23° 1	4°18	4°59	1°44	2°18	5°56	26°47	F 9
S 10	5 17 0	18°39'20	27°22	2°28	2°14	29°16	23°31	14° 2	23° 4	4°20	4°58	1°39	2°15	6° 3	26°43	S 10
S 11	5 20 56	19°40'24	12810	3°56	3°19	28°53	23°24	14° 2	23° 8	4°22	4°57	1°32	2°12	6° 9	26°39	S 11
M12	5 24 53	20°41'28	27° 7	5°24	4°24	28°30	23°18	14° 1	23°11	4°25	4°56	1°22	2° 8	6°16	26°35	M12
T 13	5 28 49	21°42'33	12 <b>I</b> I 6	6°53	5°29	28° 6	23°12	14° 1	23°15	4°27	4°55	1°11	2° 5	6°23	26°32	T 13
W14	5 32 46	22°43'38	26°56	8°23	6°35	27°43	23° 5	14° 1	23°18	4°29	4°54	1° 0	2° 2	6°29	26°28	W14
T 15	5 36 43	23°44'44	119529	9°53	7°41	27°19	22°59	14° 0	23°21	4°31	4°52	0°51	1°59	6°36	26°24	T 15
F 16	5 40 39	24°45'50	25°38	11°23	8°47	26°55	22°54	14°D 0	23°25	4°33	4°51	0°44	1°56	6°43	26°20	F 16
S 17	5 44 36	25°46'57	9 <b>Ω</b> 19	12°54	9°54	26°32	22°48	14° 0	23°28	4°35	4°50	0°39	1°52	6°50	26°16	S 17
S 18	5 48 32	26°48'04	22°33	14°25	11° 0	26° 8	22°42	14° 0	23°31	4°37	4°49	0°37	1°49	6°56	26°12	S 18
M19	5 52 29	27°49'13	5 <b>m</b> 21	15°56	12° 7	25°44	22°37	14° 1	23°35	4°40	4°48	0°D37	1°46	7° 3	26° 8	M19
T 20	5 56 25	28°50'21	17°48	17°28	13°15	25°21	22°32	14° 1	23°38	4°42	4°47	0°37	1°43	7°10	26° 4	T 20
W21	6 0 22	29°51'30	29°57	18°59	14°22	24°58	22°27	14° 2	23°41	4°44	4°46	0°R38	1°40	7°16	26° 0	W21
T 22	6 4 18	0 <b>궁</b> 52'40	11 <b>≏</b> 54	20°32	15°30	24°35	22°22	14° 2	23°44	4°46	4°45	0°37	1°37	7°23	25°56	T 22
F 23	6 8 15	1°53'50	23°46	22° 4	16°38	24°12	22°17	14° 3	23°47	4°48	4°44	0°34	1°33	7°30	25°52	F 23
S 24	6 12 12	2°55'01	5 <b>M</b> 35	23°37	17°46	23°50	22°12	14° 4	23°50	4°50	4°43	0°29	1°30	7°37	25°48	S 24
S 25	6 16 8	3°56'12	17°28	25°10	18°54	23°28	22° 8	14° 5	23°53	4°52	4°42	0°22	1°27	7°43	25°44	S 25
M26	6 20 5	4°57'24	29°27	26°43	20° 2	23° 7	22° 4	14° 6	23°56	4°54	4°41	0°12	1°24	7°50	25°40	M26
T 27	6 24 1	5°58'35	11 <b>×</b> 735	28°17	21°11	22°46	22° 0	14° 7	24° 0	4°56	4°40	0° 1	1°21	7°57	25°36	T 27
W28	6 27 58	6°59'47	23°54	29°51	22°19	22°25	21°56	14° 8	24° 2	4°58	4°39	29 <b>Ω</b> 51	1°18	8° 3	25°32	W28
T 29	6 31 54	8° 0'59	6 <b>ප</b> 24	1 <b>궁</b> 25	23°28	22° 5	21°52	14° 9	24° 5	5° 0	4°38	29°41	1°14	8°10	25°28	T 29
F 30	6 35 51	9° 2'11	19° 6	3° 0	24°37	21°46	21°49	14°11	24° 8	5° 2	4°37	29°32	1°11	8°17	25°24	F 30
S 31	6 39 47	10궁 3'23	1≈59	4 <b>궁</b> 35	25 <b>M</b> 47	21 <b>II</b> 27	21846	14 <b>Υ</b> 12	24 <b>M</b> 11	5 <b>才</b> 4	4 <b>Ⅱ</b> 36	29 <b>Ω</b> 27	1 Mp 8	8 <b>M</b> 24	25Ⅲ20	S 31

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	decl	decl lat	decl lat	decl lat	decl la	ıt	decl lat	decl la	at	decl la	at	decl lat	decl lat	decl de	cl dec	decl lat
T 1 F 2 S 3	21 s55 22 4 22 12	19 10 3 58	16 20 1	1 50 7 4 2	21 26 0	2n30 1' 2 32 1' 2 35 1'	7 55 1 2	3 9	2 40	18 12	-	19s27 1n34 19 27 1 34 19 27 1 34	9n51 11s32 9 50 11 32 9 50 11 32	10 46 10	33 8 57	5 16n57 6 s30 7 16 57 6 30 0 16 57 6 30
S 4 M 5 T 6 W 7 T 8	_	14 18 1 12 10 59 0 2	17 41 1 18 8 1 18 34 1	1 29 8 5 2 1 22 8 25 2 1 15 8 46 2	28 26 9 31 26 12 33 26 14	-	7 50 1 1 7 49 1 1 7 47 1 1	3 8 3 8 3 7	<ol> <li>39</li> <li>39</li> <li>39</li> <li>39</li> </ol>	18 15 18 16 18 17	0 15 0 15 0 15 0 15 0 15 0 15	19 28 1 34 19 29 1 34 19 29 1 34	9 50 11 31 9 50 11 31 9 50 11 31 9 50 11 31 9 50 11 31	10 51 10 10 52 10 10 52 10	36 9 3 37 9 3 38 9 6	16 56 6 31 3 16 56 6 31 5 16 56 6 31 5 16 55 6 31 8 16 55 6 32
F 9 S 10 S 11	22 54 23 0 23 5	6 40 4 10		9 48 2	38 26 22	2 50 1° 2 53 1° 2 55 1°	7 43 1 0	3 7	2 38	18 20	0 15 0 15 0 15	19 30 1 34	9 50 11 31 9 50 11 31 9 49 11 31	10 54 10	42 9 12	0 16 55 6 32 2 16 55 6 32 4 16 54 6 32
M12 T 13 W14 T 15 F 16 S 17	23 9 23 13 23 17 23 20 23 23	14 40 5 1 17 23 4 56 18 55 4 32 19 10 3 50 18 12 2 55	20 38 0 21 1 0 21 23 0 21 44 0	0 37 10 29 2 0 30 10 50 2 0 22 11 10 2 0 15 11 31 2 0 8 11 51 2	41 26 26 42 26 27 43 26 29 44 26 31 45 26 32	2 57 1' 2 59 1' 3 1 1' 3 3 1' 3 5 1'	7 40 1 0 7 39 1 0 7 37 0 59 7 36 0 59	3 7 3 7 3 8 3 8 3 8	2 37 2 37 2 37 2 37 2 36	18 21 18 22 18 23 18 24 18 25	0 15 0 15 0 15	19 31 1 34 19 31 1 34 19 32 1 34 19 32 1 34 19 33 1 34	9 49 11 31 9 49 11 31 9 49 11 31 9 49 11 30 9 49 11 30 9 49 11 30	11 0 10 11 4 10 11 8 10 11 12 10 11 14 10	9 15 45 9 15 46 9 19 47 9 23 48 9 23	5 16 54 6 32 7 16 54 6 33 16 54 6 33 16 53 6 33 16 53 6 33 5 16 53 6 33
S 18 M19 T 20 W21 T 22 F 23 S 24	23 27 23 28 23 29 23 29 23 29 23 29 23 28 23 27	9 57 0n25 6 13 1 30 2 19 2 30 1 s37 3 22	22 58 0 23 14 0 23 29 0 23 42 0 23 55 0	0 14 12 52 2 0 20 13 12 2 0 27 13 32 2 0 34 13 52 2 0 40 14 11 2	46 26 35 46 26 36 46 26 36 46 26 37 46 26 37	3 9 1' 3 10 1' 3 12 1' 3 13 1' 3 14 1' 3 16 1' 3 17 1'	7 30 0 58 7 29 0 58 7 28 0 57 7 27 0 57	3 9 3 9 3 10 3 10 3 11	2 36 2 35 2 35 2 35 2 35 2 34	18 27 18 28 18 29 18 30 18 30	0 15 0 15 0 15 0 15	19 33 1 34 19 34 1 34 19 34 1 34 19 34 1 34 19 35 1 34 19 35 1 34 19 36 1 34	9 49 11 30 9 49 11 30 9 49 11 30 9 49 11 30 9 49 11 29 9 49 11 29 9 49 11 29	11 17 10 11 16 10 11 16 10 11 16 10 11 17 10	52 9 28 53 9 30 54 9 32 55 9 34 56 9 35	6 16 53 6 33 8 16 53 6 33 9 16 52 6 33 16 52 6 33 16 52 6 33 16 52 6 33 7 16 52 6 33
S 25 M26 T 27 W28 T 29 F 30 S 31	23 23 23 21 23 18	15 6 5 5 17 17 4 59 18 42 4 39 19 15 4 5 18 50 3 19	24 25 0 24 33 1 24 39 1 24 44 1 24 47 1	0     59     15     9     2       1     4     15     27     2       1     10     15     46     2       1     15     16     4     2       1     20     16     21     2	44 26 37 44 26 37 43 26 36 42 26 36 41 26 35		7 24 0 56 7 24 0 56 7 23 0 56 7 22 0 56 7 22 0 55	3 13 3 13 3 14 3 15 3 16	2 34 2 33 2 33 2 33 2 32	18 33 18 33 18 34 18 35 18 36	0 15	19 37 1 35 19 38 1 35	9 49 11 29 9 49 11 29 9 49 11 29 9 49 11 29 9 49 11 28 9 49 11 28 9 11 28	11 25 11 11 29 11 11 33 11 11 36 11 11 39 11	0 9 43 1 9 43 2 9 44 3 9 46 4 9 48	16 52 6 34 16 51 6 34 16 51 6 34 16 51 6 33 16 51 6 33 16 51 6 33 16 51 6 33

Julian Day Number = 2321853.5, Delta T = 46.87 sec Ecliptic obliquity =  $23^{\circ}28'59$ , Nutation = -  $0^{\circ}00'09$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}47'03$ , Lahiri =  $18^{\circ}54'03$ Greg. Calendar