

# Astrodienst Ephemeris Tables for the year 1663

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 1663 GC 00:00 UT

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Day	Sid.t	0	)	ğ	φ	ď	4	ħ	)ţ(	并	В	S.	v	Ç	ķ	Day
M 1	6 42 19	10342'04	7 <u>₽</u> 7	18 <b>×</b> 741	0 <b>ප්</b> 45	11 <b>る</b> 20	4 <b>₹</b> 25	11 <b>×</b> 20	6≈38	13る 0	22°R59	11°R53	12 <b>m</b> 58	20 <b>M</b> 53	2≈41	M 1
T 2	6 46 16	11°43'14	19° 9	19°55	2° 0	12° 6	4°37	11°26	6°41	13° 3	22 <b>II</b> 58	11 <b>m</b> 52	12°54	21° 0	2°45	T 2
W 3	6 50 12	12°44'24	1 <b>m</b> 3	21°11	3°16	12°52	4°49	11°32	6°44	13° 5	22°57	11°50	12°51	21° 7	2°50	W 3
T 4	6 54 9	13°45'34	12°53	22°29	4°31	13°39	5° 1	11°39	6°48	13° 7	22°55	11°46	12°48	21°13	2°54	T 4
F 5	6 58 5	14°46'45	24°44	23°47	5°47	14°25	5°13	11°45	6°51	13°10	22°54	11°39	12°45	21°20	2°59	F 5
S 6	7 2 2	15°47'55	6 <b>₹</b> 39	25° 8	7° 2	15°11	5°25	11°51	6°54	13°12	22°53	11°30	12°42	21°27	3° 4	S 6
S 7	7 5 58	16°49'05	18°42	26°29	8°18	15°58	5°37	11°58	6°58	13°14	22°52	11°20	12°39	21°33	3° 9	S 7
M 8	7 9 55	17°50'14	0 <b>궁</b> 54	27°51	9°33	16°44	5°48	12° 4	7° 1	13°16	22°51	11° 9	12°35	21°40	3°13	M 8
T 9	7 13 52	18°51'24	13°17	2 <u>9</u> °14	10°48	17°31	6° 0	12°10	7° 4	13°19	22°50	10°58	12°32	21°47	3°18	T 9
W10	7 17 48	19°52'33	25°51	0 <b>궁</b> 39	12° 4	18°17	6°11	12°16	7° 8	13°21	22°49	10°50	12°29	21°54	3°23	W10
T 11	7 21 45	20°53'42	8≈36	2° 4	13°19	19° 4	6°23	12°22	7°11	13°23	22°48	10°43	12°26	22° 0	3°28	T 11
F 12	7 25 41	21°54'49	21°33	3°30	14°35	19°51	6°34	12°28	7°14	13°25	22°47	10°38	12°23	22° 7	3°33	F 12
S 13	7 29 38	22°55'57	4 <b>)</b> (40	4°56	15°50	20°37	6°45	12°34	7°18	13°28	22°46	10°D37	12°20	22°14	3°37	S 13
S 14	7 33 34	23°57'03	17°59	6°24	17° 6	21°24	6°56	12°40	7°21	13°30	22°45	10°37	12°16	22°20	3°42	S 14
M15	7 37 31	24°58'08	1 <b>Y</b> 31	7°52	18°21	22°11	7° 7	12°46	7°25	13°32	22°44	10°38	12°13	22°27	3°47	M15
T 16	7 41 27	25°59'13	15°15	9°20	19°36	22°57	7°18	12°52	7°28	13°34	22°43	10°39	12°10	22°34	3°52	T 16
W17	7 45 24	27° 0'16	29°12	10°50	20°52	23°44	7°29	12°58	7°32	13°37	22°42	10°R39	12° 7	22°41	3°57	W17
T 18	7 49 21	28° 1'19	13822	12°20	22° 7	24°31	7°40	13° 3	7°35	13°39	22°41	10°38	12° 4	22°47	4° 2	T 18
F 19	7 53 17	29° 2'20	27°44	13°51	23°22	25°18	7°51	13° 9	7°39	13°41	22°40	10°35	12° 0	22°54	4° 6	F 19
S 20	7 57 14	0≈ 3'20	12 <b>Ⅱ</b> 14	15°22	24°38	26° 4	8° 1	13°15	7°42	13°43	22°39	10°31	11°57	23° 1	4°11	S 20
S 21	8 1 10	1° 4'20	26°47	16°54	25°53	26°51	8°12	13°20	7°45	13°46	22°38	10°25	11°54	23° 7	4°16	S 21
M22	8 5 7	2° 5'18	119917	18°27	27° 9	27°38	8°22	13°26	7°49	13°48	22°37	10°18	11°51	23°14	4°21	M22
T 23	8 9 3	3° 6'15	25°39	20° 0	28°24	28°25	8°33	13°31	7°52	13°50	22°37	10°12	11°48	23°21	4°26	T 23
W24	8 13 0	4° 7'11	9 <b>Ω</b> 45	21°34	29°39	29°12	8°43	13°36	7°56	13°52	22°36	10° 8	11°45	23°28	4°31	W24
T 25	8 16 56	5° 8'06	23°31	23° 9	0 <b>≈</b> 55	29°59	8°53	13°42	7°59	13°54	22°35	10° 5	11°41	23°34	4°36	T 25
F 26	8 20 53	6° 9'01	6 <b>m</b> 54	24°44	2°10	0≈46	9° 3	13°47	8° 3	13°56	22°34	10°D 4	11°38	23°41	4°40	F 26
S 27	8 24 50	7° 9'54	19°55	26°20	3°25	1°33	9°13	13°52	8° 6	13°59	22°33	10° 4	11°35	23°48	4°45	S 27
S 28	8 28 46	8°10'46	2 <b>₾</b> 35	27°57	4°40	2°20	9°23	13°57	8°10	14° 1	22°32	10° 5	11°32	23°54	4°50	S 28
M29	8 32 43	9°11'38	14°56	29°34	5°56	3° 7	9°32	14° 2	8°13	14° 3	22°32	10° 7	11°29	24° 1	4°55	M29
T 30	8 36 39	10°12'28	27° 2	1≈12	7°11	3°54	9°42	14° 7	8°17	14° 5	22°31	10° 9	11°25	24° 8	5° 0	T 30
W31	8 40 36	11≈13'18	8 <b>M</b> .59	2≈51	8≈26	4≈41	9 <b>,</b> ₹52	14 <b>×</b> 12	8≈20	14중 7	22 <b>川</b> 30	10°R10	11 Mp 22	24 <b>M</b> 15	5≈ 5	W31

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M 1 T 2	23 s 3 22 58	0 s 5 0 2 n 1 1 4 3 9 3 6	- '	n13 23 s34				19s14 0s37 19 13 0 37	22 s 7 0n44 22 6 0 44			6n42 13 s24	4 13 s16 6n30 6 13 15 6 29
W 3 T 4	22 52 22 46			56 23 37 0 10 23 47 23 37 0 13 23		20 25 0 44 20 28 0 43					, -		7 13 14 6 29 8 13 14 6 29
F 5 S 6	22 40	14 16 4 52	22 42 0	39 23 36 0 15 23 30 23 35 0 18 23	0 55	20 30 0 43	20 42 1 33	19 11 0 37 19 10 0 37	22 6 0 44	16 27 6 51	7 12		13 13 6 29
S 7 M 8	22 17	18 41 4 47	23 14 0	22 23 33 0 20 23 14 23 30 0 22 23	0 56	20 36 0 43	20 43 1 33 20 44 1 33	19 8 0 37	22 5 0 44	16 27 6 51	7 20 7 24	6 50 13 33 6 51 13 3	3 13 11 6 29 4 13 10 6 28
T 9 W10 T 11	22 9 22 0 21 51	17 28 3 37		6 23 27 0 25 23 s 2 23 23 0 27 23 10 23 18 0 29 23	0 57	20 40 0 44	20 45 1 33 20 46 1 33 20 47 1 33	19 7 0 37	22 5 0 44		7 31	6 52 13 3: 6 53 13 3: 6 54 13 3:	7 13 8 6 28
F 12	_	12 45 1 41	23 43 0	17 23 12 0 31 22 24 23 6 0 34 22	58 0 58	20 44 0 44		19 5 0 37	22 4 0 44	16 27 6 50	7 35	6 56 13 4 6 57 13 4	13 6 6 28
S 14 M15 T 16 W17 T 18 F 19 S 20		1 5 1 51 3n18 2 56 7 35 3 52 11 30 4 35 14 47 5 2	23 53 0 23 54 0 23 54 0 23 52 0 23 49 1	32 22 59 0 36 22 39 22 51 0 38 22 45 22 42 0 40 22 52 22 33 0 42 22 58 22 23 0 44 22 4 22 13 0 46 22 10 22 2 0 48 21	37 0 58 29 0 59 22 0 59 14 0 59 6 1 0	20 49 0 44 20 51 0 44 20 53 0 44 20 55 0 44 20 56 0 44	20 50 1 33 20 51 1 34 20 51 1 34 20 52 1 34	19 2 0 36 19 1 0 36 19 1 0 36 19 0 0 36	22 4 0 44 22 3 0 44 22 3 0 44 22 3 0 44 22 3 0 44	16 28 6 50 16 28 6 50 16 28 6 49 16 28 6 49 16 28 6 49	7 36 7 35 7 35 7 35 7 37		4 13 3 6 28 5 13 2 6 28 6 13 1 6 28
S 21 M22 T 23 W24 T 25 F 26 S 27	19 57 19 44 19 30	18 29 4 57 18 35 4 26 17 29 3 38 15 19 2 38 12 18 1 29 8 43 0 17	23 40 1 23 33 1 23 24 1 23 15 1 23 4 1 22 51 1	16 21 50 0 50 21 21 21 37 0 52 21 26 21 24 0 54 21 31 21 10 0 56 21	48 1 0 39 1 0 30 1 1 21 1 1 11 1 2	21 0 0 44 21 1 0 44 21 3 0 44 21 4 0 44 21 6 0 44 21 8 0 44	20 53 1 34 20 54 1 34 20 55 1 34 20 55 1 34 20 56 1 34 20 56 1 34	18 57 0 36 18 56 0 36	22 2 0 44 22 2 0 44 22 2 0 44 22 2 0 44 22 1 0 44 22 1 0 44	16 28 6 49 16 28 6 49 16 28 6 49 16 29 6 48 16 29 6 48 16 29 6 48	7 41 7 43 7 45 7 47 7 48 7 49	7 7 13 55 7 8 13 55 7 9 13 5 7 10 13 5 7 11 13 5 7 13 13 5	2 12 57 6 27 3 12 56 6 27 5 12 55 6 27 6 12 54 6 27 7 12 52 6 27
S 28 M29 T 30 W31	18 15 17 59 17 43 17 s26	3 s 8 2 59 6 52 3 49	22 5 1 21 46 1	47 20 9 1 3 20 51 19 52 1 4 20 54 19 34 1 6 20 \$56 19\$16 1\$ 7 20\$	30 1 2 19 1 2	21 12 0 44 21 13 0 44	20 58 1 34 20 58 1 34	18 51 0 37 18 50 0 37 18 49 0 37 18 s48 0 s37	22 0 0 44	16 29 6 48 16 29 6 48	7 47 7 47	7 16 14 1 7 18 14	2 12 49 6 27 3 12 48 6 27 4 12 47 6 27 6 12 s46 6n27

Julian Day Number = 2328458.5, Delta T = 34.35 sec Ecliptic obliquity =  $23^{\circ}28'50$ , Nutation = -  $0^{\circ}00'05$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}02'11$ , Lahiri =  $19^{\circ}09'11$ Greg. Calendar

#### FEBRUARY 1663 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)Å(	并	Р	n	ນ	Ç	ķ	Day
T 1	8 44 32	12≈14'07	20 <b>M</b> 51	4≈31	9≈42	5≈28	10🗷 1	14 <b>×</b> 17	8≈24	14궁 9	22°R29	10°R 9	11 <b>m</b> )19	24M21	5≈10	T 1
F 2	8 48 29	13°14'55	2 <b>₹</b> 43	6°11	10°57	6°15	10°10	14°21	8°27	14°11	22 <b>II</b> 29	10 <b>m</b> 8	11°16	24°28	5°14	F 2
S 3	8 52 25	14°15'42	14°40	7°52	12°12	7° 2	10°19	14°26	8°31	14°13	22°28	10° 5	11°13	24°35	5°19	S 3
S 4	8 56 22	15°16'28	26°46	9°34	13°27	7°49	10°28	14°31	8°34	14°15	22°27	10° 1	11°10	24°41	5°24	S 4
M 5	9 0 19	16°17'12	<sub>20</sub> 4	11°17	14°43	8°37	10°37	14°35	8°38	14°17	22°27	9°57	11° 6	24°48	5°29	M 5
T 6	9 4 15	17°17'56	21°37	13° 1	15°58	9°24	10°46	14°40	8°41	14°19	22°26	9°53	11° 3	24°55	5°34	T 6
W 7	9 8 12	18°18'38	4 <b>≈</b> 25	14°45	17°13	10°11	10°55	14°44	8°45	14°21	22°25	9°50	11° 0	25° 2	5°38	W 7
T 8	9 12 8	19°19'19	17°29	16°30	18°28	10°58	11° 3	14°48	8°48	14°23	22°25	9°47	10°57	25° 8	5°43	T 8
F 9	9 16 5	20°19'58	0 <b>¥</b> 48	18°17	19°43	11°45	11°12	14°53	8°52	14°25	22°24	9°46	10°54	25°15	5°48	F 9
S 10	9 20 1	21°20'36	14°21	20° 4	20°59	12°32	11°20	14°57	8°55	14°27	22°24	9°D46	10°51	25°22	5°53	S 10
S 11	9 23 58	22°21'12	28° 6	21°51	22°14	13°20	11°28	15° 1	8°59	14°29	22°23	9°47	10°47	25°28	5°57	S 11
M12	9 27 54	23°21'47	12 <b>°</b> 1	23°40	23°29	14° 7	11°36	15° 5	9° 2	14°31	22°23	9°48	10°44	25°35	6° 2	M12
T 13	9 31 51	24°22'20	26° 3	25°29	24°44	14°54	11°44	15° 9	9° 5	14°33	22°22	9°49	10°41	25°42	6° 7	T 13
W14	9 35 48	25°22'51	10810	27°20	25°59	15°41	11°52	15°12	9° 9	14°34	22°22	9°50	10°38	25°49	6°11	W14
T 15	9 39 44	26°23'20	24°21	29°11	27°14	16°29	12° 0	15°16	9°12	14°36	22°21	9°R50	10°35	25°55	6°16	T 15
F 16	9 43 41	27°23'47	8Д33	1 <b>)</b> 2	28°29	17°16	12° 7	15°20	9°16	14°38	22°21	9°50	10°31	26° 2	6°21	F 16
S 17	9 47 37	28°24'12	22°44	2°54	29°45	18° 3	12°15	15°23	9°19	14°40	22°20	9°49	10°28	26° 9	6°25	S 17
S 18	9 51 34	29°24'36	6951	4°47	1 <b>)</b> 0	18°50	12°22	15°27	9°22	14°42	22°20	9°48	10°25	26°16	6°30	S 18
M19	9 55 30	0 <b>)</b> 24'57	20°51	6°40	2°15	19°38	12°29	15°30	9°26	14°43	22°20	9°47	10°22	26°22	6°34	M19
T 20	9 59 27	1°25'16	$4\Omega 42$	8°34	3°30	20°25	12°36	15°34	9°29	14°45	22°19	9°46	10°19	26°29	6°39	T 20
W21	10 3 23	2°25'34	18°21	10°27	4°45	21°12	12°43	15°37	9°32	14°47	22°19	9°45	10°16	26°36	6°43	W21
T 22	10 7 20	3°25'50	1 <b>M</b> 46	12°21	6° 0	21°59	12°49	15°40	9°36	14°48	22°19	9°45	10°12	26°42	6°48	T 22
F 23	10 11 17	4°26'04	14°54	14°14	7°15	22°47	12°56	15°43	9°39	14°50	22°18	9°D45	10° 9	26°49	6°52	F 23
S 24	10 15 13	5°26'16	27°45	16° 7	8°30	23°34	13° 2	15°46	9°42	14°52	22°18	9°45	10° 6	26°56	6°57	S 24
S 25	10 19 10	6°26'26	10 <b>≏</b> 20	17°59	9°45	24°21	13° 8	15°49	9°45	14°53	22°18	9°45	10° 3	27° 3	7° 1	S 25
M26	10 23 6	7°26'35	22°40	19°50	10°59	25° 8	13°14	15°52	9°48	14°55	22°18	9°46	10° 0	27° 9	7° 5	M26
T 27	10 27 3	8°26'42	4 <b>M</b> .47	21°39	10°37	25°56	13°20	15°54	9°52	14°56	22°18	9°46	9°57	27°16	7°10	T 27
W28	10 30 59	9 <del>)(</del> 26'48	16 <b>M</b> 46	23 <b>¥</b> 26	13 <b>¥</b> 29	25°50 26 <b>≈</b> 43	13 <b>×</b> 26	15 <b>×</b> 757	9 <b>≈</b> 55	14 <b>궁</b> 58	22 <b>I</b> 17	9°R46	9 m 53	27 m23	7 <b>≈</b> 14	W28

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T 1	17s 9	13 s14	4n56	21 s 5	1 s59	18 s 5 8	1s 9	19 s 5 7	1 s	3 2	1 s 1 6	0n44	20s59	1n34	18 s47	0s37	22 s 0	0n44	16n29	6 s 4 7	7n46	7n20	14s 7	12 s45	6n27
F 2	16 52	15 39	5 11	20 42	2 1	18 38	1 10	19 46	1	3 2	1 17	0 44	21 0	1 34	18 46	0 37	22 0	0 44	16 30	6 47	7 47	7 21	14 8	12 43	6 27
S 3	16 35	17 25	5 13	20 18	2 2	18 19	1 12	19 34	1	3 2	1 19	0 44	21 0	1 35	18 45	0 37	21 59	0 44	16 30	6 47	7 48	7 22	14 10	12 42	6 27
S 4	16 17	18 26	5 0	19 52	2 4	17 58	1 13	19 22	1	3 2	1 20	0 44	21 1	1 35	18 44	0 37	21 59	0 44	16 30	6 47	7 50	7 24	14 11	12 41	6 27
M 5	15 59	18 36	4 34	19 25	2 4	17 38	1 14	19 10	1	4 2	1 21	0 44	21 1	1 35	18 43	0 37	21 59	0 44	16 30	6 46	7 51	7 25	14 12	12 40	6 28
T 6	15 41	17 53	3 55	18 56	2 5	17 17	1 15	18 57	1	4 2	1 22	0 44	21 2	1 35	18 42	0 37	21 59	0 44	16 30	6 46	7 53	7 26	14 14	12 39	6 28
W 7	15 22	16 14	3 3	18 26	2 5	16 55	1 16	18 45	1	4 2	1 24	0 44	21 2	1 35	18 42	0 37	21 59	0 44	16 30	6 46	7 54	7 27	14 15	12 37	6 28
T 8	15 3	13 43	2 0	17 54	2 4	16 33	1 17	18 32	1	4 2	1 25	0 44	21 2	1 35	18 41	0 37	21 58	0 44	16 30	6 46	7 55	7 28	14 16	12 36	6 28
F 9	14 44	10 26	0 49	17 20	2 4	16 10	1 18	18 19	1	4 2	1 26	0 44	21 3	1 35	18 40	0 37	21 58	0 44	16 31	6 46	7 55	7 30	14 18	12 35	6 28
S 10	14 25	6 33	0 s25	16 45	2 2	15 47	1 19	18 6	1	4 2	1 27	0 44	21 3	1 35	18 39	0 37	21 58	0 44	16 31	6 46	7 55	7 31	14 19	12 34	6 28
S 11	14 5	2 17	1 40	16 9	2 0	15 23	1 20	17 53	1	5 2	1 28	0 44	21 4	1 35	18 38	0 37	21 58	0 44	16 31	6 45	7 55	7 32	14 20	12 33	6 28
M12	13 45	2n10	2 49	15 31	1 58	14 59	1 21	17 39	1	5 2	1 29	0 44	21 4	1 35	18 37	0 37	21 58	0 44	16 31	6 45	7 55	7 33	14 22	12 31	6 28
T 13	13 25	6 31	3 49	14 51	1 55	14 35	1 22	17 26	1	5 2	1 30	0 44	21 4	1 35	18 36	0 37	21 57	0 44	16 31	6 45	7 54	7 34	14 23	12 30	6 28
W14	13 5	10 32	4 35	14 10	1 52	14 10	1 23	17 12	1	5 2	1 31	0 44	21 5	1 35	18 35	0 37	21 57	0 44	16 31	6 45	7 54	7 36	14 24	12 29	6 28
T 15	12 45	13 58	5 5	13 28	1 48	13 45	1 23	16 58	1	5 2	1 32	0 44	21 5	1 36	18 34	0 37	21 57	0 44	16 32	6 45	7 54	7 37	14 26	12 28	6 28
F 16	12 24	16 34	5 16	12 44	1 44	13 20	1 24	16 43	1	5 2	1 33	0 44	21 5	1 36	18 34	0 37	21 57	0 44	16 32	6 44	7 54	7 38	14 27	12 26	6 29
S 17	12 3	18 9	5 8	11 59	1 38	12 54	1 24	16 29	1	5 2	1 34	0 44	21 6	1 36	18 33	0 37	21 56	0 44	16 32	6 44	7 54	7 39	14 28	12 25	6 29
S 18	11 42	18 37	4 42	11 13	1 33	12 28	1 25	16 14	1	5 2	1 35	0 44	21 6	1 36	18 32	0 37	21 56	0 44	16 32	6 44	7 54	7 40	14 30	12 24	6 29
M19	11 21	17 55	3 59	10 25	1 27	12 1	1 25	16 0	1	5 2	1 36	0 44	21 6	1 36	18 31	0 37	21 56	0 44	16 32	6 44	7 55	7 42	14 31	12 23	6 29
T 20	10 59	16 10	3 2	9 36	1 20	11 34	1 26	15 45	1	6 2	1 37	0 44	21 6	1 36	18 30	0 37	21 56	0 44	16 32	6 44	7 55	7 43	14 32	12 21	6 29
W21	10 38	13 31	1 56	8 46	1 12	11 7	1 26	15 30	1	6 2	1 37	0 45	21 7	1 36	18 29	0 37	21 56	0 44	16 33	6 44	7 56	7 44	14 34	12 20	6 29
T 22	10 16	10 11	0 44	7 55	1 4	10 40	1 26	15 14	1	6 2	1 38	0 45	21 7	1 36	18 28	0 37	21 56	0 44	16 33	6 43	7 56	7 45	14 35	12 19	6 30
F 23	9 54	6 24	0n29	7 4	0 55	10 12	1 26	14 59	1	6 2	1 39	0 45	21 7	1 36	18 27	0 37	21 55	0 44	16 33	6 43	7 56	7 46	14 36	12 18	6 30
S 24	9 32	2 24	1 38	6 11	0 46	9 44	1 26	14 43	1	6 2	1 40	0 45	21 7	1 36	18 27	0 37	21 55	0 44	16 33	6 43	7 56	7 48	14 38	12 16	6 30
S 25	9 10	1 s37	2 42	5 18	0 36	9 16	1 26	14 28	1	6 2	1 41	0 45	21 8	1 36	18 26	0 37	21 55	0 44	16 33	6 43	7 56	7 49	14 39	12 15	6 30
M26	8 47	5 29	3 36	4 25	0 25	8 47	1 26	14 12	1	6 2	1 41	0 45	21 8	1 37	18 25	0 37	21 55	0 44	16 33	6 43	7 55	7 50	14 40	12 14	6 30
T 27	8 25	9 3	4 20	3 32	0 14	8 18	1 26	13 56	1	6 2	1 42	0 45	21 8	1 37	18 24	0 37	21 55	0 44	16 34	6 42	7 55	7 51	14 41	12 13	6 31
W28	8 s 2	12 s12	4n52	2 s 3 9	0s 2	7 s49	1 s26	13 s40	1 s	6 2	1 s43	0n45	21s 8	1n37	18 s23	0s37	21 s54	0n44	16n34	6 s42	7n55	7n52	14 s43	12s11	6n31

Julian Day Number = 2328489.5, Delta T = 34.29 sec Ecliptic obliquity = 23°28'50, Nutation = -0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}02'15$ , Lahiri =  $19^{\circ}09'16$ Greg. Calendar

MARCH 1663 GC 00:00 UT

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Day	Sid.t	0	D	ğ	Ş	ď	4	ħ	)∤(	并	Р	n	ນ	Ç	ķ	Day
T 1	10 34 56	10 <b>)</b> 26'52	28 <b>M</b> .39	25 <b>米</b> 11	14 <b>) (</b> 44	27≈30	13 <b>∡</b> ³32	15 <b>₹</b> 59	9≈58	14 <b>궁</b> 59	22°R17	9°R46	9 <b>m</b> 50	27 <b>M</b> 29	7≈18	T 1
F 2	10 38 52	11°26'54	10 <b>∡</b> 32	26°53	15°59	28°18	13°37	16° 2	10° 1	15° 1	22 <b>I</b> I7	9°D46	9°47	27°36	7°23	F 2
S 3	10 42 49	12°26'55	22°29	28°32	17°14	29° 5	13°42	16° 4	10° 4	15° 2	22°17	9 <b>m</b> /46	9°44	27°43	7°27	S 3
S 4	10 46 45	13°26'54	4 <b>궁</b> 35	0Υ 6	18°29	29°52	13°47	16° 6	10° 7	15° 4	22°17	9°46	9°41	27°50	7°31	S 4
M 5	10 50 42	14°26'52	16°54	1°37	19°44	0 <b>∺</b> 39	13°52	16° 8	10°10	15° 5	22°17	9°46	9°37	27°56	7°35	M 5
T 6	10 54 39	15°26'47	29°30	3° 2	20°58	1°27	13°57	16°10	10°13	15° 6	22°17	9°47	9°34	28° 3	7°39	T 6
W 7	10 58 35	16°26'41	12≈25	4°21	22°13	2°14	14° 2	16°12	10°16	15° 8	22°D17	9°48	9°31	28°10	7°43	W 7
T 8	11 2 32	17°26'34	25°41	5°35	23°28	3° 1	14° 6	16°14	10°19	15° 9	22°17	9°48	9°28	28°16	7°47	T 8
F 9	11 6 28	18°26'24	9 <b>)</b> 19	6°42	24°43	3°48	14°10	16°16	10°22	15°10	22°17	9°R48	9°25	28°23	7°51	F 9
S 10	11 10 25	19°26'12	23°16	7°42	25°57	4°35	14°14	16°17	10°25	15°12	22°17	9°48	9°22	28°30	7°55	S 10
S 11	11 14 21	20°25'58	7 <b>Υ</b> 29	8°35	27°12	5°23	14°18	16°19	10°28	15°13	22°17	9°47	9°18	28°37	7°59	S 11
M12	11 18 18	21°25'43	21°53	9°20	28°27	6°10	14°22	16°20	10°31	15°14	22°17	9°46	9°15	28°43	8° 3	M12
T 13	11 22 14	22°25'25	6 <b>8</b> 23	9°58	29°41	6°57	14°26	16°22	10°34	15°15	22°17	9°45	9°12	28°50	8° 7	T 13
W14	11 26 11	23°25'05	20°53	10°27	0 <b>Υ</b> 56	7°44	14°29	16°23	10°36	15°16	22°18	9°43	9° 9	28°57	8°10	W14
T 15	11 30 8	24°24'42	5 <b>Ⅱ</b> 18	10°49	2°11	8°31	14°32	16°24	10°39	15°17	22°18	9°42	9° 6	29° 4	8°14	T 15
F 16	11 34 4	25°24'18	19°34	11° 2	3°25	9°18	14°35	16°25	10°42	15°18	22°18	9°D41	9° 2	29°10	8°18	F 16
S 17	11 38 1	26°23'51	3938	11°R 7	4°40	10° 5	14°38	16°26	10°45	15°19	22°18	9°41	8°59	29°17	8°21	S 17
S 18	11 41 57	27°23'21	17°30	11° 3	5°54	10°52	14°41	16°27	10°47	15°20	22°18	9°42	8°56	29°24	8°25	S 18
M19	11 45 54	28°22'49	1 <b>Q</b> 9	10°53	7° 9	11°40	14°43	16°28	10°50	15°21	22°19	9°43	8°53	29°30	8°29	M19
T 20	11 49 50	29°22'15	14°34	10°35	8°23	12°27	14°46	16°28	10°53	15°22	22°19	9°45	8°50	29°37	8°32	T 20
W21	11 53 47	0 <b>Υ</b> 21'39	27°46	10°10	9°38	13°14	14°48	16°29	10°55	15°23	22°19	9°46	8°47	29°44	8°36	W21
T 22	11 57 43	1°21'00	10 <b>m</b> /46	9°39	10°52	14° 1	14°50	16°29	10°58	15°24	22°20	9°R46	8°43	29°51	8°39	T 22
F 23	12 1 40	2°20'20	23°33	9° 3	12° 7	14°48	14°51	16°30	11° 0	15°25	22°20	9°45	8°40	29°57	8°42	F 23
S 24	12 5 37	3°19'37	6 <b>호</b> 8	8°22	13°21	15°35	14°53	16°30	11° 3	15°26	22°20	9°44	8°37	0 <b>,₹</b> 4	8°46	S 24
S 25	12 9 33	4°18'52	18°32	7°37	14°36	16°21	14°54	16°30	11° 5	15°27	22°21	9°41	8°34	0°11	8°49	S 25
M26	12 13 30	5°18'05	0 <b>M</b> .45	6°50	15°50	17° 8	14°56	16°R30	11° 7	15°27	22°21	9°36	8°31	0°17	8°52	M26
T 27	12 17 26	6°17'16	12°49	6° 0	17° 4	17°55	14°57	16°30	11°10	15°28	22°22	9°32	8°28	0°24	8°55	T 27
W28	12 21 23	7°16'25	24°47	5°11	18°19	18°42	14°57	16°30	11°12	15°29	22°22	9°27	8°24	0°31	8°58	W28
T 29	12 25 19	8°15'33	6 <b>₮</b> 40	4°21	19°33	19°29	14°58	16°30	11°14	15°29	22°23	9°23	8°21	0°38	9° 1	T 29
F 30	12 29 16	9°14'39	18°32	3°33	20°47	20°16	14°59	16°29	11°17	15°30	22°23	9°20	8°18	0°44	9° 4	F 30
S 31	12 33 12	10 <b>Y</b> 13'42	0 <b>궁</b> 28	2 <b>Υ</b> 47	22 <b>°</b> 1	21 <b>米</b> 3	14 <b>×</b> 759	16 <b>×</b> 29	11 <b>≈</b> 19	15 <b>云</b> 31	22 <b>II</b> 24	9 <b>m</b> p18	8 <b>m</b> 15	0 <b>₹</b> 51	9≈ 7	S 31

Day	0	D	ğ	Q	♂ <sup>1</sup>	4	ħ	)Å(	¥	Р	n	v t	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl dec	l decl lat
T 1 F 2 S 3	7 s40 7 17 6 54	14 s50 5 n11 16 50 5 17 18 7 5 9	1 s 4 6 0 n 1 0 0 5 4 0 2 2 0 3 0 3 0	6 51 1 25	13 7 1 6	21 s43 0n45 21 44 0 45 21 44 0 45	21 8 1 37	18 22 0 37	21 s54 0n44 21 54 0 44 21 54 0 44	16 34 6 42	7n55 7 55 7 55	7n54 14s4 7 55 14 4 7 56 14 4	
S 4 M 5 T 6 W 7 T 8	5 22 4 58	18 13 4 13 16 57 3 25 14 46 2 26 11 46 1 17	1 36 1 2 2 22 1 10 3 6 1 29 3 48 1 43	2 5 22 1 24 5 4 52 1 24 9 4 22 1 23 3 3 51 1 22	12 17 1 6 12 0 1 6 11 43 1 6 11 26 1 6	21 45 0 45 21 46 0 45 21 46 0 45 21 47 0 45 21 47 0 45	21 9 1 37 21 9 1 37 21 9 1 37 21 9 1 38	18 19 0 37 18 18 0 37 18 18 0 37 18 17 0 37	21 54 0 44 21 54 0 44 21 53 0 44 21 53 0 44 21 53 0 44	16 35 6 41 16 35 6 41 16 35 6 41 16 35 6 41	7 55 7 55 7 55 7 55 7 54	7 57 14 44 7 58 14 4 8 0 14 5 8 1 14 5 8 2 14 5	9 12 5 6 32 1 12 4 6 32 2 12 3 6 32 3 12 1 6 33
F 9 S 10 S 11	4 35 4 11 3 48	8 3 0 3 3 48 1s14 0n43 2 27	5 2 2 9	2 51 1 21	10 52 1 6	21 48 0 45 21 48 0 45 21 48 0 45	21 9 1 38	18 15 0 37	21 53 0 44 21 53 0 44 21 53 0 44	16 36 6 40	7 54 7 54 7 55		4 12 0 6 33 6 11 59 6 33 7 11 58 6 33
M12 T 13 W14 T 15 F 16 S 17	3 24 3 1 2 37 2 13 1 50 1 26	5 15 3 32 9 31 4 24 13 12 4 59 16 3 5 15 17 54 5 11 18 37 4 49	6 3 2 33 6 28 2 44 6 48 2 54 7 5 3 3 7 18 3 11 7 26 3 1	1 1 19 1 18 1 0 48 1 17 3 0 17 1 16 1 0n13 1 15	9 59 1 6 9 42 1 5 9 24 1 5 9 6 1 5		21 9 1 38 21 9 1 38 21 9 1 38 21 9 1 38	18 13 0 37 18 12 0 37 18 11 0 37 18 11 0 37	21 52 0 44 21 52 0 44	16 36 6 40 16 37 6 39 16 37 6 39 16 37 6 39	7 55 7 56 7 56 7 57 7 57 7 57	8 8 15 8 9 15 8 10 15 8 12 15	8 11 56 6 34 0 11 55 6 34 1 11 54 6 34 2 11 53 6 35 3 11 52 6 35 5 11 50 6 35
S 18 M19 T 20 W21 T 22 F 23 S 24	0 39	16 44 3 17	7 28 3 26 7 23 3 28 7 14 3 29 7 0 3 20 6 43 3 24	5 1 46 1 11 3 2 16 1 9 9 2 47 1 8 7 3 18 1 6 4 3 48 1 5	8 12 1 5 7 54 1 5 7 36 1 5 7 18 1 5 6 59 1 4	21 51 0 46 21 52 0 46 21 52 0 46	21 9 1 39 21 9 1 39 21 9 1 39 21 9 1 39 21 9 1 39	18 9 0 37 18 8 0 37 18 7 0 37 18 7 0 37 18 6 0 37	21 52 0 44 21 52 0 44 21 51 0 45	16 38 6 38 16 38 6 38 16 38 6 38 16 38 6 38 16 39 6 38	7 57 7 56 7 56 7 55 7 55 7 55 7 56	8 15 15 8 16 15 8 18 15 16 8 19 15 1 8 20 15 1	
S 25 M26 T 27 W28 T 29 F 30 S 31	1 43 2 7 2 30 2 54 3 17 3 40 4n 3	17 51 5 9	5 32 3 4 5 4 2 53 4 33 2 43 4 2 2 3	4 5 19 1 0 5 5 49 0 58 8 6 19 0 56 1 6 49 0 55 7 7 19 0 53	6 4 1 4 5 46 1 4 5 27 1 4 5 9 1 3 4 50 1 3	21 52 0 46 21 52 0 0 46	21 9 1 39 21 9 1 40 21 9 1 40 21 8 1 40 21 8 1 40	18 4 0 38 18 3 0 38 18 3 0 38 18 2 0 38 18 2 0 38	21 50 0 45 21 50 0 45	16 39 6 37 16 39 6 37 16 40 6 37 16 40 6 36		8 24 15 16 8 25 15 1	7 11 39 6 39 8 11 37 6 39 0 11 36 6 39 1 11 35 6 40

Julian Day Number = 2328517.5, Delta T = 34.24 sec Ecliptic obliquity =  $23^{\circ}28'51$ , Nutation = -  $0^{\circ}00'05$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}02'19$ , Lahiri =  $19^{\circ}09'20$ Greg. Calendar

APRIL 1663 GC 00:00 UT

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Day	Sid.t	0	D	ğ	P	ð	4	ħ	)મ(	卉	Р	u	ß	Ç	Ŗ	Day
S 1	12 37 9	11 <b>Y</b> 12'44	12 <b>る</b> 32	2°R 3	23 <b>Y</b> 16	21 <b>)</b> (49	14°R59	16°R28	11≈21	15 <b>云</b> 31	22∏24	9°D18	8 <b>m</b> 12	0 <b>≯</b> 58	9≈10	S 1
M 2	12 41 5	12°11'45	24°48	1 <b>Y</b> 23	24°30	22°36	14 <b>×</b> 759	16 <b>₹</b> 28	11°23	15°32	22°25	9 <b>m</b> p18	8° 8	1° 5	9°13	M 2
T 3	12 45 2	13°10'43	7≈21	0°48	25°44	23°23	14°58	16°27	11°25	15°32	22°25	9°20	8° 5	1°11	9°16	T 3
W 4	12 48 59	14° 9'40	20°16	0°16	26°58	24°10	14°58	16°26	11°27	15°33	22°26	9°21	8° 2	1°18	9°19	W 4
T 5	12 52 55	15° 8'35	3 <b>∺</b> 35	29 <b>米</b> 50	28°12	24°56	14°57	16°25	11°29	15°33	22°27	9°R22	7°59	1°25	9°21	T 5
F 6	12 56 52	16° 7'28	17°21	29°29	29°26	25°43	14°56	16°24	11°31	15°34	22°27	9°22	7°56	1°31	9°24	F 6
S 7	13 0 48	17° 6'19	1 <b>Y</b> 32	29°13	0840	26°29	14°55	16°23	11°33	15°34	22°28	9°21	7°53	1°38	9°26	S 7
S 8	13 4 45	18° 5'09	16° 5	29° 3	1°54	27°16	14°54	16°22	11°35	15°34	22°29	9°17	7°49	1°45	9°29	S 8
M 9	13 8 41	19° 3'56	0 <b>8</b> 54	28°D57	3° 8	28° 3	14°53	16°20	11°37	15°35	22°29	9°12	7°46	1°52	9°31	M 9
T 10	13 12 38	20° 2'41	15°51	28°57	4°22	28°49	14°51	16°19	11°39	15°35	22°30	9° 6	7°43	1°58	9°34	T 10
W11	13 16 34	21° 1'24	0 <b>Ⅱ</b> 47	29° 3	5°36	29°36	14°49	16°18	11°40	15°35	22°31	8°59	7°40	2° 5	9°36	W11
T 12	13 20 31	22° 0'05	15°33	29°13	6°50	o <b>Υ</b> 22	14°47	16°16	11°42	15°35	22°32	8°54	7°37	2°12	9°38	T 12
F 13	13 24 28	22°58'44	09 4	29°28	8° 4	1° 8	14°45	16°14	11°44	15°35	22°32	8°50	7°34	2°18	9°40	F 13
S 14	13 28 24	23°57'21	14°15	29°48	9°18	1°55	14°43	16°13	11°45	15°35	22°33	8°48	7°30	2°25	9°42	S 14
S 15	13 32 21	24°55'55	28° 4	0 <b>Υ</b> 12	10°32	2°41	14°40	16°11	11°47	15°36	22°34	8°D48	7°27	2°32	9°44	S 15
M16	13 36 17	25°54'27	11 <b>£</b> 33	0°41	11°46	3°27	14°38	16° 9	11°48	15°36	22°35	8°49	7°24	2°39	9°46	M16
T 17	13 40 14	26°52'57	24°43	1°14	13° 0	4°14	14°35	16° 7	11°50	15°R36	22°36	8°50	7°21	2°45	9°48	T 17
W18	13 44 10	27°51'25	7 <b>™</b> 37	1°51	14°13	5° 0	14°32	16° 5	11°51	15°36	22°37	8°R50	7°18	2°52	9°50	W18
T 19	13 48 7	28°49'51	20°17	2°32	15°27	5°46	14°28	16° 2	11°53	15°36	22°38	8°50	7°14	2°59	9°52	T 19
F 20	13 52 3	29°48'14	2 <u>₽</u> 46	3°16	16°41	6°32	14°25	16° 0	11°54	15°36	22°39	8°47	7°11	3° 6	9°54	F 20
S 21	13 56 0	0846'36	15° 5	4° 4	17°54	7°18	14°21	15°58	11°55	15°35	22°39	8°42	7° 8	3°12	9°55	S 21
S 22	13 59 57	1°44'55	27°16	4°55	19°8	8° 4	14°18	15°55	11°57	15°35	22°40	8°35	7° 5	3°19	9°57	S 22
M23	14 3 53	2°43'13	9 <b>M</b> 20	5°50	20°22	8°50	14°14	15°53	11°58	15°35	22°41	8°25	7° 2	3°26	9°59	M23
T 24	14 7 50	3°41'29	21°19	6°47	21°35	9°36	14°10	15°50	11°59	15°35	22°42	8°15	6°59	3°32	10° 0	T 24
W25	14 11 46	4°39'43	3 <b>∡</b> 13	7°48	22°49	10°22	14° 5	15°47	12° 0	15°35	22°43	8° 4	6°55	3°39	10° 2	W25
T 26	14 15 43	5°37'56	15° 6	8°51	24° 2	11° 8	14° 1	15°44	12° 1	15°34	22°44	7°54	6°52	3°46	10° 3	T 26
F 27	14 19 39	6°36'07	2 <u>6</u> °58	9°57	25°16	11°54	13°56	15°42	12° 2	15°34	22°45	7°46	6°49	3°53	10° 4	F 27
S 28	14 23 36	7°34'17	8 <b>궁</b> 53	11° 6	26°29	12°40	13°52	15°39	12° 3	15°34	22°46	7°40	6°46	3°59	10° 5	S 28
S 29	14 27 32	8°32'25	20°56	12°17	27°43	13°26	13°47	15°36	12° 4	1 <u>5</u> °33	22°48	7°36	6°43	4° 6	10° 7	S 29
M30	14 31 29	9830'32	3≈ 9	13 <b>Y</b> 31	28 <b>8</b> 56	14 <b>Y</b> 12	13 <b>×7</b> 42	15 <b>×</b> 33	12 <b>∞</b> 5	15 <b>云</b> 33	22 <b>∏</b> 49	7 <b>m</b> 34	6 <b>m</b> 39	4 <b>₹</b> 13	10≈ 8	M30

Day	0	J		ğ	i	Q	1	d	и		4	-	<del>ի</del>	)	ľ(	<del>,</del> ‡		E	2	n	Ω	Ç	ď	
	decl	decl lat	t	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	4n27	18 s 3 3	4n22	2n27	1n47	8n18	0s49	4 s 1 3	1s 3	21 s52	0n46	21s 8	1n40	18s 0	0s38	21 s50	0n45	16n41	6s36	8n 6	8n31	15 s23	11 s33	6n40
M 2	4 50	17 36 3	3 40	1 57	1 31	8 47	0 47	3 54	1 3	21 52	0 46	21 8	1 40	18 0	0 38	21 50	0 45	16 41	6 36	8 6	8 32	15 25	11 32	6 41
T 3	5 13	15 47 2	2 46	1 28	1 15	9 16	0 45	3 35	1 2	21 52	0 46	21 8	1 40	17 59	0 38	21 50	0 45	16 41	6 35	8 5	8 33	15 26	11 31	6 41
W 4	5 36	13 8 1	1 42	1 1	0 59	9 45	0 43	3 16	1 2	21 52	0 46	21 8	1 40	17 59	0 38	21 50	0 45	16 41	6 35	8 5	8 34	15 27	11 30	6 42
T 5	5 58	9 43 (	0 32	0 35	0 43	10 13	0 40	2 58	1 2	21 52	0 46	21 7	1 40	17 58	0 38	21 50	0 45	16 41	6 35	8 4	8 35	15 28	11 29	6 42
F 6	6 21	5 40 (	0s43	0 12	0 27	10 42	0 38	2 39	1 2	21 52	0 46	21 7	1 40	17 58	0 38	21 50	0 45	16 42	6 35	8 4	8 37	15 29	11 28	6 42
S 7	6 44	1 11 1	1 58	0s 9	0 11	11 10	0 36	2 20	1 1	21 52	0 46	21 7	1 41	17 57	0 38	21 50	0 45	16 42	6 35	8 5	8 38	15 31	11 27	6 43
S 8	7 6	3n28 3	3 6	0 27	0s 5	11 38	0 34	2 1	1 1	21 51	0 46	21 7	1 41	17 57	0 38	21 50	0 45	16 42	6 35	8 6	8 39	15 32	11 26	6 43
M 9	7 29	8 0 4	4 3	0 43	0 19	12 5	0 32	1 43	1 1	21 51	0 46	21 7	1 41	17 56	0 38	21 50	0 45	16 42	6 34	8 8	8 40	15 33	11 25	6 44
T 10	7 51	12 4 4	4 44	0 56	0 34	12 33	0 29	1 24	1 1	21 51	0 46	21 6	1 41	17 56	0 38	21 50	0 45	16 43	6 34	8 10	8 41	15 34	11 24	6 44
W11	8 13	15 21 5	5 6	1 7	0 48	12 59	0 27	1 5	1 0	21 51	0 46	21 6	1 41	17 55	0 38	21 50	0 45	16 43	6 34	8 13	8 43	15 36	11 23	6 44
T 12	8 35	17 36 5	5 7	1 15	1 1	13 26	0 25	0 46	1 0	21 51	0 46	21 6	1 41	17 55	0 38	21 50	0 45	16 43	6 34	8 15	8 44	15 37	11 22	6 45
F 13	8 57	18 40	4 48	1 20	1 13	13 52	0 22	0 27	1 0	21 50	0 47	21 6	1 41	17 55	0 38	21 50	0 45	16 43	6 34	8 16	8 45	15 38	11 21	6 45
S 14	9 19	18 32 4	4 12	1 23	1 25	14 18	0 20	0 9	0 59	21 50	0 47	21 5	1 41	17 54	0 38	21 50	0 45	16 43	6 33	8 17	8 46	15 39	11 20	6 46
S 15	9 40	17 17 3	3 22	1 24	1 36	14 44	0 17	0n10	0 59	21 50	0 47	21 5	1 41	17 54	0 38	21 50	0 45	16 44	6 33	8 17	8 47	15 40	11 19	6 46
M16	10 2	15 4 2	2 22	1 22	1 47	15 9	0 15	0 29	0 59	21 49	0 47	21 5	1 41	17 53	0 38	21 50	0 45	16 44	6 33	8 17	8 48	15 42	11 18	6 47
T 17	10 23	12 7 1	1 15	1 17	1 56	15 34	0 12	0 47	0 58	21 49	0 47	21 4	1 41	17 53	0 38	21 49	0 45	16 44	6 33	8 16	8 50	15 43	11 17	6 47
W18	10 44	8 37 (	0 7	1 11	2 5	15 59	0 10	1 6	0 58	21 49	0 47	21 4	1 41	17 53		21 49	0 45	16 44	6 33	8 16	8 51	15 44	11 16	6 47
T 19	11 5	4 48 1	1n 1	1 2	2 13	16 23	0 7	1 25		21 48		21 4	1 41	17 52	0 38	21 49	0 45	16 44	6 33	8 16		15 45		6 48
F 20	11 25	0 49 2	2 5	0 51	2 21	16 46	0 5	1 43	0 57	21 48	0 47	21 4	1 42	17 52	0 38	21 49	0 45	16 45	6 32	8 17	8 53	15 46	11 14	6 48
S 21	11 46	3s 9 3	3 2	0 38	2 28	17 10	0 2	2 2	0 57	21 47	0 47	21 3	1 42	17 52	0 38	21 49	0 45	16 45	6 32	8 19	8 54	15 48	11 13	6 49
S 22	12 6	6 56 3	3 50	0 24	2 34	17 33	0n 0	2 20	0 57	21 47	0 47	21 3	1 42	17 51	0 38	21 49	0 45	16 45	6 32	8 22	8 56	15 49	11 12	6 49
M23	12 26	10 25	4 27	0 7	2 39	17 55	0 3	2 39	0 56	21 47	0 47	21 3	1 42	17 51	0 38	21 49	0 45	16 45	6 32	8 26	8 57	15 50	11 12	6 50
T 24	12 46	13 26	4 51	0n12	2 44	18 17	0 5	2 57	0 56	21 46	0 47	21 2	1 42	17 51	0 39	21 49	0 45	16 46	6 32	8 29	8 58	15 51	11 11	6 50
W25	13 6	15 52 5	5 3	0 32	2 48	18 38	0 8	3 16	0 56	21 46	0 47	21 2	1 42	17 50	0 39	21 49	0 45	16 46	6 32	8 33	8 59	15 52	11 10	6 51
T 26	13 25	17 38 5	5 2	0 54	2 51	18 59	0 11	3 34	0 55	21 45	0 47	21 2	1 42	17 50	0 39	21 50	0 45	16 46	6 31	8 37	9 0	15 54	11 9	6 51
F 27	13 45	18 39 4	4 48	1 17	2 54	19 20	0 13	3 52	0 55	21 45	0 47	21 1	1 42	17 50	0 39	21 50	0 45	16 46	6 31	8 40	9 1	15 55	11 8	6 51
S 28	14 4	18 51 4	4 21	1 42	2 56	19 40	0 16	4 11	0 54	21 44	0 47	21 1	1 42	17 50	0 39	21 50	0 45	16 46	6 31	8 43	9 3	15 56	11 8	6 52
S 29	14 22	18 11 3	3 42	2 9	2 57	19 59	0 18	4 29	0 54	21 43	0 47	21 1	1 42	17 49	0 39	21 50	0 45	16 47	6 31	8 44	9 4	15 57	11 7	6 52
M30	14n41	16s41 2	2n53	2n37	2 s 5 8	20n18	0n21	4n47	0s54	21 s43	0n47	21 s (	1n42	17 s49	0s39	21 s50	0n45	16n47	6 s 3 1	8n45	9n 5	15 s58	11s 6	6n53

 $\label{eq:Julian Day Number = 2328548.5, Delta T = 34.18 sec} \\ Ecliptic obliquity = 23°28'51, Nutation = -0°00'07, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°02'23, Lahiri = 19°09'24Greg. Calendar \\ \\$ 

MAY 1663 GC 00:00 UT

Day	Sid.t	$\odot$	D	Ϋ́	φ	♂	4	ħ	)ұ(	并	Р	r	Ω	Ç	Š.	Day
T 1	14 35 26	10828'37	15≈39	14 <b>Υ</b> 47	0 <b>Д</b> 10	14 <b>Y</b> 57	13°R37	15°R29	12≈ 6	15°R33	22耳50	7°D34	6 <b>m</b> 36	4 <b>₹</b> 19	10≈ 9	T 1
W 2	14 39 22	11°26'41	28°29	16° 6	1°23	15°43	13 <b>∡</b> 31	15 <b>₹</b> 26	12° 6	15 <b>る</b> 32	22°51	7 <b>m</b> 35	6°33	4°26	10°10	W 2
T 3	14 43 19	12°24'43	11 <b>) (</b> 44	17°27	2°36	16°29	13°26	15°23	12° 7	15°32	22°52	7°R35	6°30	4°33	10°10	T 3
F 4	14 47 15	13°22'44	25°27	18°50	3°50	17°14	13°20	15°20	12° 8	15°31	22°53	7°33	6°27	4°40	10°11	F 4
S 5	14 51 12	14°20'44	9 <b>Y</b> 39	20°15	5° 3	18° 0	13°15	15°16	12° 8	15°31	22°54	7°30	6°24	4°46	10°12	S 5
S 6	14 55 8	15°18'42	24°18	21°43	6°16	18°45	13° 9	15°13	12° 9	15°30	22°55	7°24	6°20	4°53	10°13	S 6
M 7	14 59 5	16°16'39	9 <b>8</b> 19	23°12	7°29	19°31	13° 3	15° 9	12° 9	15°30	22°57	7°16	6°17	5° 0	10°13	M 7
T 8	15 3 1	17°14'34	24°32	24°44	8°43	20°16	12°57	15° 6	12°10	15°29	22°58	7° 6	6°14	5° 7	10°14	T 8
W 9	15 6 58	18°12'28	9 <b>Ⅱ</b> 47	26°18	9°56	21° 1	12°50	15° 2	12°10	15°28	22°59	6°56	6°11	5°13	10°14	W 9
T 10	15 10 54	19°10'20	24°53	27°54	11° 9	21°47	12°44	14°58	12°11	15°28	23° 0	6°47	6° 8	5°20	10°15	T 10
F 11	15 14 51	20° 8'11	99541	29°32	12°22	22°32	12°38	14°54	12°11	15°27	23° 1	6°39	6° 5	5°27	10°15	F 11
S 12	15 18 48	21° 6'00	24° 4	1813	13°35	23°17	12°31	14°51	12°11	15°26	23° 3	6°35	6° 1	5°33	10°15	S 12
S 13	15 22 44	22° 3'47	8 <b>Ω</b> 1	2°55	14°48	24° 2	12°25	14°47	12°11	15°25	23° 4	6°32	5°58	5°40	10°15	S 13
M14	15 26 41	23° 1'32	21°31	4°39	16° 1	24°47	12°18	14°43	12°12	15°24	23° 5	6°D32	5°55	5°47	10°16	M14
T 15	15 30 37	23°59'16	4 <b>m</b> 37	6°26	17°14	25°32	12°11	14°39	12°12	15°24	23° 6	6°R32	5°52	5°54	10°R16	T 15
W16	15 34 34	24°56'58	17°23	8°15	18°27	26°17	12° 4	14°35	12°12	15°23	23° 8	6°31	5°49	6° 0	10°16	W16
T 17	15 38 30	25°54'39	29°52	10° 5	19°40	27° 2	11°57	14°31	12°R12	15°22	23° 9	6°29	5°45	6° 7	10°16	T 17
F 18	15 42 27	26°52'17	12 <b>♀</b> 9	11°58	20°53	27°47	11°50	14°27	12°12	15°21	23°10	6°25	5°42	6°14	10°15	F 18
S 19	15 46 23	27°49'55	24°17	13°53	22° 6	28°32	11°43	14°23	12°12	15°20	23°12	6°18	5°39	6°20	10°15	S 19
S 20	15 50 20	28°47'31	6 <b>M</b> .18	15°50	23°19	29°16	11°36	14°19	12°12	15°19	23°13	6° 8	5°36	6°27	10°15	S 20
M21	15 54 17	29°45'06	18°15	17°49	24°31	0 <b>8</b> 1	11°28	14°14	12°11	15°18	23°14	5°56	5°33	6°34	10°15	M21
T 22	15 58 13	0 <b>Ⅱ</b> 42'39	0 <b>才</b> 9	19°50	25°44	0°46	11°21	14°10	12°11	15°17	23°16	5°43	5°30	6°41	10°14	T 22
W23	16 2 10	1°40'12	12° 2	21°52	26°57	1°30	11°14	14° 6	12°11	15°16	23°17	5°29	5°26	6°47	10°14	W23
T 24	16 6 6	2°37'43	2 <u>3</u> °55	23°57	28° 9	2°15	11° 6	14° 2	12°11	15°15	23°18	5°15	5°23	6°54	10°13	T 24
F 25	16 10 3	3°35'14	5 <b>る</b> 49	26° 3	29°22	2°59	10°59	13°57	12°10	15°14	23°20	5° 4	5°20	7° 1	10°12	F 25
S 26	16 13 59	4°32'43	17°48	28°10	0 <b>9</b> 35	3°44	10°51	13°53	12°10	15°13	23°21	4°55	5°17	7° 8	10°12	S 26
S 27	16 17 56	5°30'11	29°53	0 <b>П</b> 19	1°47	4°28	10°43	13°49	12° 9	15°12	23°22	4°49	5°14	7°14	10°11	S 27
M28	16 21 53	6°27'39	12 <b>≈</b> 8	2°29	3° 0	5°13	10°36	13°44	12° 9	15°11	23°24	4°46	5°11	7°21	10°10	M28
T 29	16 25 49	7°25'06	24°37	4°40	4°12	5°57	10°28	13°40	12° 8	15° 9	23°25	4°45	5° 7	7°28	10° 9	T 29
W30	16 29 46	8°22'32	7 <b>)</b> €24	6°52	5°25	6°41	10°21	13°36	12° 8	15° 8	23°26	4°45	5° 4	7°34	10° 8	W30
T 31	16 33 42	9∏19'58	20 <b>米</b> 34	9 <b>I</b> I 4	6 <b>9</b> 37	7 <b>8</b> 25	10 <b>×</b> 13	13 <b>~</b> 31	12 <b>∞</b> 7	15중 7	23Ⅲ28	4 Mp 44	5 <b>m</b> ⊘ 1	7 <b>.₹</b> 41	10≈ 7	T 31

Day	0	D	ζ	į	φ	ď		2	ł	ħ	ì.	);	ł(	¥		В	n	v	Ç	ķ	
	decl	decl lat	decl	lat	decl lat	decl la	at	decl	lat	decl	lat	decl	lat	decl l	at	decl lat	decl	decl	decl	decl	lat
T 1 W 2	15 17	14s21 1n5 11 16 0 4	8 3 37	2 57 20	0 54 0 26	5 23	0 53	21 s42 21 42	0 46	21 s 0 20 59	1 42	17 s49 17 49	0 39	21 50	0 45	16n47 6s3 16 47 6 3	1 8 45	9n 6 9 7	16 1	11s 6 11 5	6n53 6 54
T 3 F 4 S 5	15 35 15 53 16 10	7 31 0s2 3 15 1 3 1n21 2 4	4 42	2 54 21		5 59	0 52	21 41 21 40 21 40	0 46 0 46 0 46	20 59	1 42	17 49 17 49 17 48	0 39	21 50	0 45 0 45 0 45	16 47 6 3 16 48 6 3 16 48 6 3	0 8 45	9 9 9 10 9 11	16 3	11 4 11 4 11 3	6 54 6 55 6 55
S 6 M 7 T 8	16 27 16 44 17 1	6 0 3 4 10 24 4 2 14 10 4 5	7 6 28	2 46 22	1 59 0 36 2 14 0 39 2 28 0 41	6 52	0 51	21 39 21 38 21 38	0 46	20 58 20 57 20 57	1 42	17 48 17 48 17 48	0 39	21 50	0 45	16 48 6 3 16 48 6 3 16 48 6 3	0 8 52	9 12 9 13 9 14	16 6	11 2 11 2 11 1	6 56 6 56 6 56
W 9 T 10 F 11	17 33 17 48	18 36 4 4 18 55 4 1	4 9 3	2 32 22 2 26 23		7 44 8 2	0 49 0 49	21 37 21 36 21 35	0 46 0 46	20 57 20 56 20 56	1 42 1 42	17 48 17 48 17 48	0 39 0 39	21 50 21 50	0 45 0 45	16 49 6 3 16 49 6 2 16 49 6 2	9 9 2 9 5	9 18	16 10 16 11	10 59	6 57 6 57 6 58
S 12 S 13 M14	18 19 18 34	15 58 2 2 13 7 1 1	5 10 25 9 11 6	2 14 23 2 7 23	3 30 0 53 3 40 0 56	8 36 8 53	0 48 0 47	<ul><li>21 34</li><li>21 34</li><li>21 33</li></ul>	0 46 0 46		1 42 1 42		0 39 0 39	21 50 21 50	0 45	16 49 6 2 16 49 6 2 16 50 6 2	9 9 8	9 19 9 20 9 21	16 13 16 14	10 58 10 58	6 58 6 59 6 59
T 15 W16 T 17 F 18	18 48 19 2 19 16 19 30	9 41 0 1 5 52 0n5 1 53 2 2s 6 2 5	7 12 32 0 13 15	1 51 23 1 42 24		9 27 9 43	0 46	21 32 21 31 21 30 21 29	0 46 0 46 0 46 0 46	20 54 20 53	1 42 1 42	17 48 17 48 17 48 17 48	0 39 0 39	21 51 21 51	0 45 0 45	16 50 6 2 16 50 6 2 16 50 6 2 16 50 6 2	9 9 8 9 9	9 23 9 24 9 25 9 26	16 17 16 18	10 57 10 57 10 57 10 56	7 0 7 0 7 1 7 1
S 19 S 20	19 43 19 55	5 58 3 4 9 32 4 2	4 14 41 1 15 25	1 24 24 1 15 24	4 22 1 7 4 28 1 9	10 16 10 33	<ul><li>0 45</li><li>0 44</li></ul>	<ul><li>21 29</li><li>21 28</li></ul>	0 46 0 46	<ul><li>20 52</li><li>20 52</li></ul>	1 42 1 42	17 48 17 48	0 39 0 39	<ul><li>21 51</li><li>21 51</li></ul>	0 45 0 45	16 50 6 2 16 51 6 2	8 9 13 8 9 17	9 27 9 28	16 20 16 21	<ul><li>10 56</li><li>10 55</li></ul>	7 2 7 2
M21 T 22 W23	20 32	17 21 4 5	8 16 51 8 17 33	0 55 24 0 44 24	4 38 1 14 4 42 1 16	11 5 11 21	0 43	21 26 21 25	0 45	20 51 20 50	1 42 1 42	17 48 17 48 17 48	0 40 0 40	21 51 21 51	0 45 0 45	16 51 6 2 16 51 6 2 16 51 6 2	8 9 26 8 9 31	9 32	16 23 16 25	10 55	7 2 7 3 7 3
T 24 F 25 S 26	20 43 20 54 21 5	19 3 4 1		0 23 24	4 48 1 20	11 53	0 42	21 24 21 23 21 22	0 45	20 50 20 49 20 49	1 42	17 48 17 49 17 49	0 40	-	0 45 0 45 0 45	16 51 6 2 16 51 6 2 16 52 6 2	8 9 40	9 34	16 26 16 27 16 28	10 54	7 4 7 4 7 5
M28 T 29	21 35	15 19 1 5 12 30 0 5	3 21 26	0n 9 24 0 19 24	4 52 1 25 4 52 1 27	12 39 12 55	0 40 0 39	21 21 21 20 21 19	0 45 0 45	20 47	1 42 1 42	17 49 17 49 17 49	0 40 0 40	21 52	0 45 0 45	16 52 6 2 16 52 6 2	7 9 47 7 9 47	9 38 9 39		10 53 10 53	7 5 7 6 7 6
	21 44 21n53		4 21 59 3 22n30					21 18 21 s17		20 47 20 s46		17 49 17 s50				16 52 6 2 16n52 6 s2		9 40 9n41	16 32 16 s 33		7 6 7n 7

Julian Day Number = 2328578.5, Delta T = 34.13 sec Ecliptic obliquity =  $23^{\circ}28'51$ , Nutation = -  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}02'27$ , Lahiri =  $19^{\circ}09'28$ Greg. Calendar

JUNE 1663 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)ф(	并	Р	u	ಬ	Ç	, k	Day
F 1	16 37 39	10 <b>Ⅱ</b> 17'22	<b>4Υ</b> 10	11 <b>II</b> 16	79549	8 <b>X</b> 9	10°R 5	13°R27	12°R 6	15°R 6	23Ⅱ29	4°R43	4 <b>m</b> 58	7 <b>.</b> ₹48	10°R 6	F 1
S 2	16 41 35	11°14'47	18°15	13°28	9° 2	8°54	9 <b>∡</b> 758	13 <b>×</b> 22	12 <b>≈</b> 6	15 <b>ප</b> 4	23°31	4 <b>m</b> 39	4°55	7°55	10≈ 5	S 2
S 3	16 45 32	12°12'10	2 <b>8</b> 48	15°39	10°14	9°38	9°50	13°18	12° 5	15° 3	23°32	4°33	4°51	8° 1	10° 4	S 3
M 4	16 49 28	13° 9'33	17°44	17°50	11°26	10°21	9°42	13°13	12° 4	15° 2	23°33	4°25	4°48	8° 8	10° 3	M 4
T 5	16 53 25	14° 6'56	2Ⅲ57	20° 0	12°39	11° 5	9°35	13° 9	12° 3	15° 1	23°35	4°15	4°45	8°15	10° 1	T 5
W 6	16 57 21	15° 4'18	18°16	22° 9	13°51	11°49	9°27	13° 5	12° 2	14°59	23°36	4° 4	4°42	8°22	10° 0	W 6
T 7	17 1 18	16° 1'39	3930	24°16	15° 3	12°33	9°20	13° 0	12° 1	14°58	23°38	3°54	4°39	8°28	9°59	T 7
F 8	17 5 15	16°58'59	18°27	26°22	16°15	13°17	9°12	12°56	12° 0	14°56	23°39	3°46	4°36	8°35	9°57	F 8
S 9	17 9 11	17°56'19	3 <b>N</b> 1	28°26	17°27	14° 0	9° 5	12°51	11°59	14°55	23°41	3°41	4°32	8°42	9°56	S 9
S 10	17 13 8	18°53'37	17° 6	0928	18°39	14°44	8°57	12°47	11°58	14°54	23°42	3°38	4°29	8°48	9°54	S 10
M11	17 17 4	19°50'55	0 <b>m</b> 43	2°28	19°51	15°27	8°50	12°43	11°57	14°52	23°43	3°D37	4°26	8°55	9°52	M11
T 12	17 21 1	20°48'11	13°53	4°26	21° 3	16°11	8°42	12°38	11°56	14°51	23°45	3°37	4°23	9° 2	9°50	T 12
W13	17 24 57	21°45'27	26°39	6°23	22°15	16°54	8°35	12°34	11°55	14°49	23°46	3°R37	4°20	9° 9	9°49	W13
T 14	17 28 54	22°42'42	9 <b>ჲ</b> 6	8°16	23°27	17°38	8°28	12°30	11°53	14°48	23°48	3°36	4°17	9°15	9°47	T 14
F 15	17 32 51	23°39'57	21°19	10° 8	24°39	18°21	8°21	12°25	11°52	14°46	23°49	3°33	4°13	9°22	9°45	F 15
S 16	17 36 47	24°37'10	3 <b>M</b> 22	11°57	25°51	19° 4	8°13	12°21	11°51	14°45	23°51	3°27	4°10	9°29	9°43	S 16
S 17	17 40 44	25°34'23	15°18	13°45	27° 2	19°47	8° 6	12°17	11°49	14°43	23°52	3°19	4° 7	9°35	9°41	S 17
M18	17 44 40	26°31'36	27°11	15°29	28°14	20°30	7°59	12°12	11°48	14°42	23°54	3° 9	4° 4	9°42	9°39	M18
T 19	17 48 37	27°28'48	9 <b>∡</b> 3	17°12	29°26	21°13	7°53	12° 8	11°46	14°40	23°55	2°57	4° 1	9°49	9°37	T 19
W20	17 52 33	28°25'59	20°57	18°52	$0\Omega 37$	21°56	7°46	12° 4	11°45	14°39	23°56	2°45	3°57	9°56	9°35	W20
T 21	17 56 30	29°23'11	2 <b>る</b> 53	20°30	1°49	22°39	7°39	12° 0	11°43	14°37	23°58	2°34	3°54	10° 2	9°32	T 21
F 22	18 0 26	0920'22	14°53	22° 6	3° 0	23°22	7°33	11°56	11°42	14°36	23°59	2°24	3°51	10° 9	9°30	F 22
S 23	18 4 23	1°17'33	26°59	23°39	4°12	24° 5	7°26	11°52	11°40	14°34	24° 1	2°17	3°48	10°16	9°28	S 23
S 24	18 8 20	2°14'43	9≈12	25°10	5°23	24°47	7°20	11°48	11°38	14°33	24° 2	2°12	3°45	10°23	9°25	S 24
M25	18 12 16	3°11'54	21°35	26°38	6°34	25°30	7°14	11°44	11°37	14°31	24° 4	2° 9	3°42	10°29	9°23	M25
T 26	18 16 13	4° 9'05	4 <b>)</b> 11	28° 4	7°45	26°13	7° 7	11°40	11°35	14°30	24° 5	2°D 9	3°38	10°36	9°21	T 26
W27	18 20 9	5° 6'16	17° 2	29°28	8°57	26°55	7° 1	11°36	11°33	14°28	24° 6	2° 9	3°35	10°43	9°18	W27
T 28	18 24 6	6° 3'27	0 <b>Υ</b> 12	0 <b>Ω</b> 49	10° 8	27°38	6°55	11°32	11°32	14°26	24° 8	2°R10	3°32	10°49	9°15	T 28
F 29	18 28 2	7° 0'38	13°45	2° 8	11°19	28°20	6°50	11°28	11°30	14°25	24° 9	2°10	3°29	10°56	9°13	F 29
S 30	18 31 59	7957'50	27 <b>Y</b> 41	3 <b>Ω</b> 24	12 <b>\O</b> 30	29 <b>8</b> 2	6 <b>₹</b> 44	11 <b>×</b> 25	11 <b>≈</b> 28	14 <b>궁</b> 23	24 <b>I</b> I11	2Mp 8	3 <b>m</b> 26	11 <b>~</b> 3	9≈10	S 30

Day	0	D	ζ	3 9	2	♂	24	+	ħ	1	);	<b>β</b> (	¥		Р		ß	v	Ç	ď	
	decl	decl lat	decl	lat decl	lat dec	l lat	decl	lat	decl	lat	decl	lat	decl la	at	decl l	at	decl	decl	decl	decl	lat
F 1	22n 2	0s37 2s2	29 22n59	0n49 24n47	1n32 13n3	9 0s38	21s16	0n44	20 s46	1n42	17 s50	0 s40	21 s52	0n45	16n53	6 s 2 7	9n48	9n42	16s34	10s53	7n 7
S 2	22 10	3n57 3 2	28 23 25	0 58 24 43	1 33 13 5	4 0 37	21 15	0 44	20 46	1 42	17 50	0 40	21 53	0 45	16 53	6 27	9 49	9 44	16 36	10 53	7 8
S 3	22 18	8 27 4 1	23 49	1 7 24 40	1 35 14		21 14	0 44	20 45		17 50		21 53	0 45	16 53	6 27	9 51	9 45	16 37	10 52	7 8
M 4			18 24 10	1 15 24 35	1 36 14 2		21 13	0 44			17 51			-		6 27	9 55		16 38		7 8
T 5			1 24 29	1 23 24 30	1 38 14 3		21 12		20 44		17 51					6 27	9 58		16 39		7 9
W 6			24 44		1 39 14 5		21 11		20 44		17 51			0 45		6 27			16 40		7 9
T 7	22 45	-	22 24 57		1 40 15		21 10		20 43		17 52			0 45		6 27			16 41		7 10
F 8			35 25 7				21 9		20 43		17 52			0 45		-			16 42		7 10
S 9	22 56	17 1 2 3	35 25 15	1 46 24 2	1 42 15 3	0 33	21 8	0 43	20 42	1 41	17 52	0 40	21 54	0 45	16 54	6 27	10 10	9 52	16 43	10 52	7 10
S 10	23 1	14 22 1 2	26 25 19	1 50 23 53	1 43 15 4	6 0 32	21 7	0 43	20 42	1 41	17 53	0 40	21 54	0 45	16 54	6 27	10 11	9 53	16 44	10 52	7 11
M11	23 5	11 0 0 1	5 25 21	1 54 23 44	1 44 16	0 0 31	21 6	0 43	20 41	1 41	17 53	0 40	21 54	0 45	16 54	6 26	10 12	9 54	16 45	10 52	7 11
T 12	23 10	7 11 0n5	54 25 21	1 56 23 34	1 45 16 1	0 31	21 5	0 43	20 41	1 41	17 53	0 40	21 54	0 45	16 54	6 26	10 12	9 55	16 46	10 53	7 12
W13	23 13	3 9 1 5	59 25 18	1 58 23 23	1 46 16 2	6 0 30	21 4	0 43	20 40	1 41	17 54	0 40	21 54	0 45	16 54	6 26	10 12	9 56	16 47	10 53	7 12
T 14	23 17	0s55 2 5	7 25 12	1 59 23 11	1 47 16 3	9 0 30	21 3	0 43	20 40	1 41	17 54	0 40	21 54	0 45	16 54	6 26	10 12	9 58	16 48	10 53	7 12
F 15	23 20	4 51 3 4	15 25 5	2 0 22 59	1 47 16 5	1 0 29	21 2	0 42	20 39	1 41	17 54	0 40	21 55	0 45	16 54	6 26	10 13	9 59	16 50	10 53	7 13
S 16	23 22	8 33 4 2	22 24 56	1 59 22 47	1 48 17	4 0 28	21 1	0 42	20 39	1 41	17 55	0 40	21 55	0 45	16 54	6 26	10 15	10 0	16 51	10 53	7 13
S 17	23 24	11 52 4 4	18 24 44	1 58 22 33	1 48 17 1	6 0 28	21 0	0 42	20 39	1 41	17 55	0 40	21 55	0 45	16 55	6 26	10 18	10 1	16 52	10 53	7 13
M18	23 26	14 41 5	1 24 31	1 57 22 19	1 49 17 2	8 0 27	20 59	0 42	20 38	1 40	17 56	0 40	21 55	0 45	16 55	6 26	10 22	10 2	16 53	10 54	7 14
T 19	23 27	16 54 5	1 24 16	1 54 22 5	1 49 17 4	0 0 26	20 58	0 42	20 38	1 40	17 56	0 41	21 55	0 45	16 55	6 26	10 26	10 3	16 54	10 54	7 14
W20	23 28	18 23 4 4	17 23 59	1 51 21 50	1 49 17 5	0 26	20 58	0 42	20 37	1 40	17 57	0 41	21 55	0 45	16 55	6 26	10 31	10 4	16 55	10 54	7 14
T 21	23 29	19 5 4 2	22 23 41	1 48 21 34	1 49 18	4 0 25	20 57	0 41	20 37	1 40	17 57	0 41	21 56	0 45	16 55	6 26	10 35	10 6	16 56	10 54	7 15
F 22	23 29	18 56 3 4	14 23 22	1 43 21 18	1 49 18 1	5 0 24	20 56	0 41	20 36	1 40	17 57	0 41	21 56	0 45	16 55	6 26	10 38	10 7	16 57	10 55	7 15
S 23	23 28	17 55 2 5	56 23 1	1 38 21 1	1 49 18 2	7 0 24	20 55	0 41	20 36	1 40	17 58	0 41	21 56	0 45	16 55	6 26	10 41	10 8	16 58	10 55	7 15
S 24	23 28	16 4 1 5	59 22 39	1 33 20 43	1 49 18 3	8 0 23	20 54	0 41	20 36	1 40	17 58	0 41	21 56	0 45	16 55	6 26	10 43	10 9	16 59	10 55	7 16
M25	23 27	13 27 0 5	6 22 17	1 26 20 25	1 49 18 4	9 0 22	20 53	0 41	20 35	1 40	17 59	0 41	21 56	0 45	16 55	6 26	10 44	10 10	17 0	10 55	7 16
T 26	23 25	10 10 0s	1 21 53	1 20 20 7	1 49 18 5	9 0 22	20 52	0 40	20 35	1 39	17 59	0 41	21 56	0 45	16 55	6 26	10 44	10 11	17 1	10 56	7 16
W27	23 23	6 20 1 1	9 21 29	1 12 19 48	1 49 19 1	0 0 21	20 52	0 40	20 34	1 39	18 0	0 41	21 57	0 45	16 55	6 26	10 43	10 13	17 2	10 56	7 16
T 28	23 20	2 8 2 2	25 21 4	1 5 19 28	1 48 19 2	0 0 20	20 51	0 40	20 34	1 39	18 0	0 41	21 57	0 45	16 56	6 26	10 43	10 14	17 3	10 57	7 17
F 29	23 18	2n18 3 2	24 20 38	0 56 19 8	1 48 19 3	0 0 19	20 50	0 40	20 34	1 39	18 1	0 41	21 57	0 45	16 56	6 26	10 43	10 15	17 4	10 57	7 17
S 30	23n14	6n44 4s	3 20n12	0n47 18n48	1n47 19n4	0 0s19	20 s49	0n40	20 s33	1n39	18 s 2	0s41	21 s57	0n45	16n56	6 s 2 6	10n44	10n16	17s 5	10s57	7n17
	1 1				lI	-1	1 1				l .							- '			

Julian Day Number = 2328609.5, Delta T = 34.07 sec Ecliptic obliquity = 23°28'50, Nutation = - 0°00'08, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}02'32$ , Lahiri =  $19^{\circ}09'32$ Greg. Calendar

JULY 1663 GC 00:00 UT

D	0:14		7	×	^	7		+	)./	) (	Ь	_		•	ĸ	D
Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)ұ(	卉	В	ß	Ω	ţ	ę,	Day
S 1	18 35 55	8 <b>©</b> 55'02	128 1	4⋒38	13 <b>Ω</b> 41	29 <b>8</b> 45	6°R39	11°R21	11°R26	14°R22	24 <b>Ⅱ</b> 12	2°R 5	3 <b>m</b> 22	11 <b>才</b> 10	9°R 8	S 1
M 2	18 39 52	9°52'14	26°44	5°49	14°52	0 <b>Ⅲ</b> 27	6 <b>₹</b> 33	11 <b>×</b> 17	11≈24	14 <b>궁</b> 20	24°13	1 <b>m</b> 59	3°19	11°16	9 <b>≈</b> 5	M 2
T 3	18 43 49	10°49'27	11 <b>Ⅱ</b> 42	6°57	16° 3	1° 9	6°28	11°14	11°22	14°18	24°15	1°52	3°16	11°23	9° 2	T 3
W 4	18 47 45	11°46'40	26°49	8° 2	17°14	1°51	6°23	11°10	11°20	14°17	24°16	1°45	3°13	11°30	8°59	W 4
T 5	18 51 42	12°43'54	119554	9° 5	18°24	2°33	6°18	11° 7	11°18	14°15	24°18	1°38	3°10	11°37	8°56	T 5
F 6	18 55 38	13°41'07	26°47	10° 4	19°35	3°15	6°13	11° 4	11°16	14°13	24°19	1°32	3° 7	11°43	8°54	F 6
S 7	18 59 35	14°38'21	11 <b>£</b> 21	11° 1	20°46	3°57	6° 9	11° 0	11°14	14°12	24°20	1°28	3° 3	11°50	8°51	S 7
S 8	19 3 31	15°35'34	25°30	11°54	21°56	4°39	6° 4	10°57	11°12	14°10	24°22	1°D27	3° 0	11°57	8°48	S 8
M 9	19 7 28	16°32'48	9 <b>m</b> 12	12°44	23° 7	5°20	6° 0	10°54	11°10	14° 9	24°23	1°27	2°57	12° 3	8°45	M 9
T 10	19 11 24	17°30'02	22°27	13°31	24°17	6° 2	5°56	10°51	11°8	14° 7	24°24	1°28	2°54	12°10	8°42	T 10
W11	19 15 21	18°27'16	5 <b>≏</b> 17	14°14	25°28	6°44	5°52	10°48	11° 6	14° 5	24°26	1°29	2°51	12°17	8°39	W11
T 12	19 19 18	19°24'30	17°47	14°53	26°38	7°25	5°48	10°45	11° 4	14° 4	24°27	1°R30	2°48	12°24	8°36	T 12
F 13	19 23 14	20°21'44	0 <b>M</b> 1	15°28	27°48	8° 7	5°44	10°42	11° 1	14° 2	24°28	1°30	2°44	12°30	8°33	F 13
S 14	19 27 11	21°18'58	12° 3	16° 0	28°58	8°48	5°41	10°39	10°59	14° 1	24°30	1°27	2°41	12°37	8°30	S 14
S 15	19 31 7	22°16'13	23°59	16°27	0 mg 8	9°29	5°37	10°36	10°57	13°59	24°31	1°24	2°38	12°44	8°26	S 15
M16	19 35 4	23°13'28	5 <b>₹</b> 51	16°49	1°18	10°10	5°34	10°34	10°55	13°57	24°32	1°18	2°35	12°50	8°23	M16
T 17	19 39 0	24°10'43	17°44	17° 8	2°28	10°52	5°31	10°31	10°53	13°56	24°33	1°12	2°32	12°57	8°20	T 17
W18	19 42 57	25° 7'59	29°40	17°21	3°38	11°33	5°28	10°28	10°50	13°54	24°35	1° 6	2°28	13° 4	8°17	W18
T 19	19 46 53	26° 5'15	11 <b>る</b> 42	17°30	4°48	12°14	5°26	10°26	10°48	13°53	24°36	0°59	2°25	13°11	8°14	T 19
F 20	19 50 50	27° 2'32	23°51	17°R34	5°57	12°55	5°23	10°24	10°46	13°51	24°37	0°54	2°22	13°17	8°11	F 20
S 21	19 54 47	27°59'49	6≈ 8	17°33	7° 7	13°36	5°21	10°21	10°43	13°49	24°39	0°50	2°19	13°24	8° 7	S 21
S 22	19 58 43	28°57'07	18°36	17°27	8°16	14°16	5°19	10°19	10°41	13°48	24°40	0°48	2°16	13°31	8° 4	S 22
M23	20 2 40	29°54'26	1 <b>) (</b> 14	17°16	9°26	14°57	5°17	10°17	10°39	13°46	24°41	0°D48	2°13	13°38	8° 1	M23
T 24	20 6 36	0 <b>Ω</b> 51'46	14° 5	17° 0	10°35	15°38	5°15	10°15	10°36	13°45	24°42	0°48	2° 9	13°44	7°58	T 24
W25	20 10 33	1°49'07	27° 9	16°39	11°44	16°18	5°14	10°13	10°34	13°43	24°43	0°50	2° 6	13°51	7°54	W25
T 26	20 14 29	2°46'28	10 <b>Y</b> 29	16°13	12°53	16°59	5°12	10°11	10°32	13°42	24°45	0°51	2° 3	13°58	7°51	T 26
F 27	20 18 26	3°43'51	24° 5	15°42	14° 2	17°39	5°11	10°10	10°29	13°40	24°46	0°52	2° 0	14° 4	7°48	F 27
S 28	20 22 22	4°41'15	7 <b>8</b> 58	15° 8	15°11	18°20	5°10	10° 8	10°27	13°39	24°47	0°R52	1°57	14°11	7°45	S 28
S 29	20 26 19	5°38'41	22° 9	14°30	16°20	19° 0	5° 9	10° 6	10°25	13°37	24°48	0°52	1°54	14°18	7°41	S 29
M30	20 30 16	6°36'07	6 <b>Ⅱ</b> 34	13°48	17°29	19°40	5° 9	10° 5	10°22	13°36	24°49	0°50	1°50	14°25	7°38	M30
T 31	20 34 12	$7\Omega 33'35$	21 <b>I</b> I12	13 <b>N</b> 4	18 <b>m</b> /37	20∏20	5 <b>₹</b> 8	10 <b>∡</b> 3	10≈20	13 <b>る</b> 34	24∏50	0 <b>m</b> 47	1 <b>M</b> ) 47	14 <b>₹</b> 31	7 <b>≈</b> 35	T 31

Day	0	D		ğ	φ		ð	2	4	ŧ		);	<del>j</del> (	<del>1</del> 4		В	n	Ω	Ç	ď	
	decl	decl lat	decl	lat	decl l	at de	cl lat	decl	lat	decl	lat	decl	lat	decl l	at	decl lat	dec	l decl	decl	decl	lat
S 1 M 2 T 3	23n11 23 7 23 2	14 30 5 17 14 5	18 19n45 5 19 19 2 18 52	0 28		1n46 19n 1 46 20 1 45 20	0 0 17 9 0 17	20 s48 20 48 20 47	0 39 0 39		1 39 1 38	18 3	0 41 0 41	21 57 21 58	0 45 0 45	16 56 6 16 56 6	26 10n4 26 10 4 26 10 5	7 10 18 0 10 19	17 7 17 8	10 58 10 59	7n17 7 18 7 18
W 4 T 5 F 6 S 7	22 52	19 3 3 5 17 58 2 5	88 18 25 55 17 57 66 17 31 66 17 4	0s 4 0 15	17 21 16 58 16 35 16 11	1 44 20 1 43 20 1 42 20 1 40 20	28 0 15 36 0 14	5 20 46 5 20 46 4 20 45 4 20 45			1 38 1 38 1 38 1 38	18 4 18 5	0 41 0 41	21 58 21 58	0 45 0 45	16 56 6 16 56 6	26 10 5 26 10 5 26 10 5 26 10 5	5 10 22 7 10 23	17 10 17 11	11 0 11 0	7 18 7 18 7 19 7 19
S 8 M 9 T 10 W11 T 12 F 13 S 14	22 34 22 27 22 20 22 12 22 4 21 56 21 47	8 47 0n4 4 42 1 5 0 32 2 5 3 s32 3 4 7 22 4 2	3 15 21 4 14 57	0 52 1 5 1 18 1 31 1 45	15 22 14 58 14 32 14 7	1 39 20 1 38 21 1 36 21 1 35 21 1 33 21 1 31 21 1 29 21	2 0 12 10 0 11 18 0 11 25 0 10 33 0 9	20 44 20 43 20 43 20 42 0 20 42 0 20 41 3 20 41	0 38 0 38 0 37 0 37 0 37	20 30 20 30 20 30	1 38 1 37 1 37 1 37 1 37 1 37 1 37	18 7 18 7 18 8 18 8	0 41 0 41 0 41 0 41 0 41	21 59 21 59 21 59 21 59 21 59 21 59	0 45 0 45 0 45 0 45	16 56 6 16 56 6 16 56 6 16 56 6 16 56 6	26 10 5 26 10 5 26 10 5 26 10 5 26 10 5 26 10 5 26 10 5	9 10 26 8 10 27 8 10 29 8 10 30 8 10 31	17 14 17 15 17 16 17 17 17 18	11 2 11 3 11 3 11 4 11 4	7 19 7 19 7 19 7 19 7 20 7 20 7 20
S 15 M16 T 17 W18 T 19 F 20 S 21	21 29 21 19 21 9 20 58 20 47	16 15 5 17 59 4 5 18 56 4 3 19 3 3 5 18 17 3	7 13 50 9 13 30 67 13 12 63 12 54 66 12 39 8 12 25 1 12 13	2 26 2 40 2 53 3 7 3 20	10 31	1 27 21 1 25 21 1 23 22 1 21 22 1 19 22 1 16 22 1 14 22	54 0 7 1 0 6 7 0 5 13 0 5 19 0 4	20 40 20 40 20 40 20 39	0 36 0 36 0 36 0 36 0 36	20 29	1 36 1 36 1 36 1 36 1 35	18 10 18 11 18 12 18 12 18 13 18 14 18 14	0 41 0 41 0 41 0 41 0 41	22 0 22 0 22 0 22 1 22 1	0 45 0 45 0 45 0 45 0 45	16 57 6 16 57 6 16 57 6 16 57 6 16 57 6	26 11 26 11 26 11		17 21 17 22 17 23 17 24 17 25	11 6 11 7 11 8 11 8 11 9	7 20 7 20 7 20 7 20 7 20 7 20 7 21 7 21
S 22 M23 T 24 W25 T 26 F 27 S 28	20 24 20 12 20 0 19 47 19 34 19 21 19 7	11 6 0s 7 23 1 1 3 16 2 1 1n 5 3 2 5 27 4 1	9 11 46	3 57 4 8 4 18 4 27 4 35	9 35 9 6 8 37 8 8 7 39 7 10 6 40	1 11 22 1 8 22 1 6 22 1 3 22 1 0 22 0 57 22 0 54 23	36 0 2 42 0 1 47 0n 0 51 0 1 56 0 2	20 39 20 39	0 35 0 35 0 35 0 34 0 34	20 28 20 28 20 28 20 28 20 28 20 28 20 28 20 28	1 35 1 35 1 34 1 34 1 34	18 15 18 15 18 16 18 17 18 17 18 18 18 19	0 41 0 41 0 41 0 41 0 41	22 1 22 1 22 2 22 2 22 2 22 2	0 45 0 45 0 45 0 45 0 45	16 57 6 16 57 6 16 57 6 16 57 6 16 57 6	26 11 1 26 11 1 26 11 1 26 11 1 26 11 1 26 11 1 26 11 1	3 10 42 2 10 43 2 10 45 1 10 46 1 10 47	17 28 17 29 17 30 17 31 17 32	11 11 11 12 11 13 11 14 11 15	7 21 7 21 7 21 7 21 7 21 7 21 7 21 7 21
S 29 M30 T 31	18 39	16 19 5 1	0 11 55 2 12 4 34 12n14	4 51	6 11 5 41 5n11	0 50 23 0 47 23 0n44 23n	9 0 4	20 39 20 39 20 s39	0 33	20 28 20 27 20 s27	1 33	18 19 18 20 18 s21	0 41	22 2	0 45	16 57 6	26 11 1 26 11 1 26 11n1	2 10 50	17 35	11 17	7 21 7 21 7n21

Julian Day Number = 2328639.5, Delta T = 34.02 sec Ecliptic obliquity =  $23^{\circ}28'50$ , Nutation = -  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}02'36$ , Lahiri =  $19^{\circ}09'36$ Greg. Calendar

AUGUST 1663 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	ð	24	ħ	)∤(	¥	В	n	Ω	Ç	ķ	Day
W 1	20 38 9	8 <b>Ω</b> 31'05	5955	12°R18	19 <b>m</b> )46	21 <b>I</b> I 1	5°R 8	10°R 2	10°R17	13°R33	24 <b>I</b> I51	0°R44	1 Mp 44	14 <b>×</b> <sup>7</sup> 38	7°R31	W 1
T 2	20 42 5	9°28'35	20°39	11 <b>Ω</b> 31	20°54	21°41	5°D 8	10 K 2	10 K17	13 <b>3</b> 31	24°52	0 m 41	1°41	14°45	7 <b>≈</b> 28	T 2
F 3	20 46 2	10°26'06	5Ω14	10°44	22° 3	22°21	5 <b>₹</b> 8	10° 0	10°13	13°30	24°53	0°39	1°38	14°51	7°25	F 3
S 4	20 49 58	11°23'39	19°35	9°57	23°11	23° 0	5° 8	9°59	10°10	13°29	24°55	0°38	1°34	14°58	7°21	S 4
S 5	20 53 55	12°21'13 13°18'47	3 Mp 37 17°16	9°12 8°29	24°19 25°27	23°40 24°20	5° 9 5°10	9°58 9°57	10° 8 10° 6	13°27 13°26	24°56 24°57	0°D38 0°38	1°31 1°28	15° 5 15°12	7°18 7°15	S 5
M 6 T 7	20 57 51 21 1 48	13°18'47 14°16'23	0 <u>₽</u> 32	7°49	26°35	24°59	5°10	9°56	10° 6	13°25	24°58	0°38	1°25	15°12	7°13	M 6 T 7
W 8	21 5 45	14 10 23 15°13'59	13°25	7°14	20°33	24 39 25°39	5°12	9°56	10 3 10° 1	13°23	24°59	0°41	1°23	15 18 15°25	7° 8	W 8
T 9	21 9 41	15 13 39 16°11'37	25°58	6°43	28°50	26°18	5°13	9°55	9°58	13°23	25° 0	0°42	1°19	15°32	7° 5	W 8
F 10	21 13 38	17° 9'15	8 <b>M</b> .14	6°18	29°58	26°58	5°14	9°55	9°56	13°21	25° 1	0°43	1°15	15°38	7° 2	F 10
S 11	21 17 34	18° 6'55	20°18	5°59	1 <b>º</b> 5	27°37	5°16	9°54	9°54	13°19	25° 1	0°R43	1°12	15°45	6°59	S 11
1																
S 12	21 21 31	19° 4'36	2 <b>√</b> 14	5°46	2°13	28°16	5°18	9°54	9°51	13°18	25° 2	0°42	1° 9	15°52	6°56	S 12
M13	21 25 27	20° 2'17	14° 7	5°D41	3°20	28°55	5°20	9°54	9°49	13°17	25° 3	0°41	1° 6	15°59	6°52	M13
T 14	21 29 24	21° 0'00	26° 1	5°42	4°27	29°35	5°22	9°D54	9°47	13°16	25° 4	0°40	1° 3 1° 0	16° 5	6°49	T 14
W15 T 16	21 33 20 21 37 17	21°57'44 22°55'29	8 <b>궁</b> 0 20° 8	5°51 6° 8	5°33 6°40	09513 0°52	5°24 5°26	9°54 9°54	9°44 9°42	13°15 13°13	25° 5 25° 6	0°39 0°38	0°56	16°12 16°19	6°46 6°43	W15 T 16
F 17	21 37 17	22°53'29 23°53'16	20° 8 2≈25	6°32	7°46	1°31	5°29	9°54	9°42 9°40	13°13	25° 7	0°37	0°53	16°19	6°43	F 17
S 18	21 41 14 21 45 10	24°51'04	14°56	7° 4	8°53	2°10	5°32	9°54	9°37	13°11	25° 8	0°37	0°50	16°32	6°37	S 18
						_										
S 19	21 49 7	25°48'53	27°41	7°44	9°59	2°49	5°35	9°55	9°35	13°10	25° 8	0°D36	0°47	16°39	6°34	S 19
M20	21 53 3	26°46'44	10 <b>∺</b> 40	8°31	11° 5	3°27	5°38	9°55	9°33	13° 9	25° 9	0°36	0°44	16°46	6°31	M20
T 21	21 57 0	27°44'36	23°53	9°25	12°11	4° 6	5°42	9°56	9°31	13° 8	25°10	0°37	0°40	16°52	6°28	T 21
W22	22 0 56	28°42'30	7 <b>Υ</b> 19	10°26	13°17	4°44	5°45	9°57	9°28	13° 7	25°11	0°37	0°37	16°59	6°25	W22
T 23	22 4 53	29°40'25	20°58	11°34	14°22	5°22	5°49	9°57	9°26	13° 6	25°11	0°37	0°34	17° 6	6°22	T 23
F 24	22 8 49	0m/38'23	4849	12°48	15°27	6° 1	5°53	9°58	9°24	13° 5	25°12	0°R37	0°31	17°13	6°19	F 24
S 25	22 12 46	1°36'22	18°49	14° 8	16°32	6°39	5°57	9°59	9°22	13° 4	25°13	0°37	0°28	17°19	6°16	S 25
S 26	22 16 43	2°34'24	2 <b>Ⅱ</b> 58	15°33	17°37	7°17	6° 1	10° 0	9°20	13° 3	25°13	0°D37	0°25	17°26	6°13	S 26
M27	22 20 39	3°32'27	17°13	17° 4	18°42	7°55	6° 5	10° 2	9°18	13° 2	25°14	0°37	0°21	17°33	6°11	M27
T 28	22 24 36	4°30'32	19931	18°39	19°47	8°33	6°10	10° 3	9°15	13° 1	25°15	0°37	0°18	17°39	6° 8	T 28
W29	22 28 32	5°28'40	15°50	20°17	20°51	9°10	6°15	10° 4	9°13	13° 1	25°15	0°38	0°15	17°46	6° 5	W29
T 30	22 32 29	6°26'49	0Ω 6	22° 0	21°55	9°48	6°20	10° 6	9°11	13° 0	25°16	0°38	0°12	17°53	6° 2	T 30
F 31	22 36 25	7 Mg 25'00	14 <b>Ω</b> 14	23 <b>N</b> 45	22 <b>≙</b> 59	10926	6 <b>₹</b> 25	10 <b>才</b> 7	9≈ 9	12 <b>る</b> 59	25 <b>Ⅱ</b> 17	0 <b>m</b> /39	0 <b>m</b> ) 9	18 <b>×</b> 0	6 <b>≈</b> 0	F 31

Day	0	Ş	)	ţ	5	ς	2	ď	1	2	ł	ħ	<u> </u>	);	ł(	j	ŧ,	Е	)	n	Ω	Ç	ķ	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18n10	19n 4	4s17	12n26	4 s 5 4	4n41	0n40	23n16	0n 6	20s39	0n33	20 s28	1n33	18 s21	0s41	22 s 3	0n45	16n57	6 s 2 6	11n14	10n53	17s37	11s19	7n21
T 2	17 55	18 33	3 23	12 40	4 52	4 11		23 20	0 7	20 39	0 33	20 28	1 33	18 22	0 41	22 3	0 45	16 57	6 26	11 15	10 54	17 38	11 20	7 21
F 3	17 39	16 48	-	12 56	4 49	3 40		23 23	0 7	20 39		20 28	1 33	18 23			0 45	16 57				17 38		7 21
S 4	17 23	14 1	1 1	13 14	4 44	3 10	0 30	23 26	0 8	20 40	0 32	20 28	1 32	18 23	0 41	22 3	0 45	16 57	6 27	11 16	10 56	17 39	11 21	7 21
S 5	17 7	10 27	0n16	13 32	4 37	2 39	0 26	23 29	0 9	20 40	0 32	20 28	1 32	18 24	0 41	22 3	0 45	16 57	6 27	11 16	10 57	17 40	11 22	7 20
M 6	16 51	6 26	1 31	13 52	4 28	2 9	0 22	23 31	0 10	20 40	0 32	20 28	1 32	18 25	0 41	22 4	0 45	16 57	6 27	11 16	10 58	17 41	11 23	7 20
T 7	16 35	2 12	2 38	14 12	4 18	1 38	0 18	23 34	0 11	20 41	0 32	20 28	1 32	18 25	0 41	22 4	0 45	16 57	6 27	11 16	10 59	17 42	11 24	7 20
W 8	16 18			14 32	4 6	1 8		23 36		20 41		20 28		18 26			0 45	16 57	6 27	11 15		17 43	-	7 20
T 9	16 1		-	14 52		0 37		23 38		20 42		20 28		18 27						11 15		17 44		7 20
F 10	15 43		-	15 12		0 6		23 40		20 42		20 28		18 27						11 14		17 45		7 20
S 11	15 26	12 51	5 11	15 32	3 23	0 s24	0 2	23 42	0 14	20 42	0 31	20 28	1 31	18 28	0 41	22 4	0 45	16 56	6 27	11 14	11 4	17 46	11 28	7 20
S 12	15 8	15 29	5 16	15 51	3 7	0 55	0s 2	23 43	0 15	20 43	0 31	20 29	1 31	18 28	0 41	22 5	0 45	16 56	6 27	11 15	11 5	17 47	11 28	7 20
M13	14 50	17 26	5 8	16 8	2 50	1 26	0 7	23 44	0 16	20 44	0 31	20 29	1 31	18 29	0 41	22 5	0 45	16 56	6 27	11 15	11 6	17 48	11 29	7 20
T 14	14 31	18 39	4 46	16 25	2 33	1 56	0 11	23 45	0 17	20 44	0 30	20 29	1 30	18 30	0 41	22 5	0 45	16 56	6 27	11 15	11 7	17 49	11 30	7 19
W15	14 13	19 3	4 12	16 39	2 15	2 27	0 16	23 46	0 17	20 45	0 30	20 29	1 30	18 30	0 41	22 5	0 44	16 56		11 16		17 49	-	7 19
T 16		18 34			1 57	2 58		23 47		20 45	0 30		1 30		0 41	-	0 44	16 56				17 50		7 19
F 17		17 13			1 40	3 28		23 47		20 46	0 30		1 30			22 5		16 56		-		17 51		7 19
S 18	13 16	15 1	1 26	17 12	1 22	3 59	0 29	23 48	0 20	20 47	0 30	20 30	1 30	18 32	0 41	22 5	0 44	16 56	6 27	11 17	11 12	17 52	11 34	7 19
S 19	12 56	12 3	0 16	17 19	1 5	4 29	0 34	23 48	0 21	20 48	0 29	20 30	1 29	18 33	0 41	22 6	0 44	16 56	6 28	11 17	11 13	17 53	11 35	7 18
M20	12 37	8 26	0s55	17 23	0 48	4 59	0 39	23 48	0 22	20 48	0 29	20 30	1 29	18 33	0 41	22 6	0 44	16 56	6 28	11 17	11 14	17 54	11 36	7 18
T 21	12 17		2 6	17 25	0 32	5 29	0 44	23 48	0 23	20 49	0 29	20 31	1 29			22 6	0 44	16 56	6 28	11 17	11 15	17 55	11 37	7 18
W22	11 57	0n 0	3 10	17 23	0 17	6 0		23 47		20 50	0 29			18 35		-	0 44	16 56	6 28	11 16	11 16	17 56	11 38	7 18
T 23	11 36	-		17 19	0 2	6 30		23 47		20 51	0 29		1 28			-		16 56		-		17 57		7 18
F 24	11 16		-	17 12		6 59		23 46		20 52	0 28		1 28									17 57		7 17
S 25	10 55	12 28	5 10	17 1	0 25	7 29	1 3	23 45	0 26	20 52	0 28	20 32	1 28	18 36	0 41	22 6	0 44	16 56	6 28	11 16	11 20	17 58	11 40	7 17
S 26	10 35	15 36	5 17	16 48	0 38	7 59	1 8	23 44	0 27	20 53	0 28	20 32	1 28	18 37	0 41	22 6	0 44	16 56	6 28	11 16	11 21	17 59	11 41	7 17
M27	10 14	17 49	5 4	16 32	0 49	8 28	1 13	23 43	0 28	20 54	0 28	20 33	1 28	18 37	0 41	22 7	0 44	16 56	6 28	11 16	11 22	18 0	11 42	7 17
T 28		18 56		16 12		8 57		23 41		20 55		20 33		18 38							11 23		11 43	7 16
W29		18 50	-	15 50		9 27		23 40		20 56		20 34		18 39							11 24		11 44	7 16
T 30		17 32		15 25	1 17	9 56		23 38		20 57		20 34		18 39							11 25		11 45	7 16
F 31	8n48	15n 9	1 s30	14n57	1n24	10s24	1 s34	23n36	0n32	20 s 58	0n27	20 s35	1n27	18 s40	0s41	22 s 7	0n44	16n55	6 s 2 9	11n16	11n26	18s 3	11 s46	7n15

Julian Day Number = 2328670.5, Delta T = 33.96 sec Ecliptic obliquity =  $23^{\circ}28'51$ , Nutation = -  $0^{\circ}00'07$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}02'40$ , Lahiri =  $19^{\circ}09'41$ Greg. Calendar

SEPTEMBER 1663 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)ţ(	并	В	S.	v	Ç	Ŗ	Day
S 1	22 40 22	8 mg 23'13	28 <b>Ω</b> 12	25 <b>Ω</b> 33	24 <b>º</b> 3	1199 3	6 <b>₹</b> 30	10 <b>×</b> 9	9°R 7	12°R58	25 <b>Ⅱ</b> 17	0°R39	0 mg 6	18 <b>∡</b> 6	5°R57	S 1
S 2	22 44 18	9°21'28	11 <b>m</b> 56	27°23	25° 6	11°41	6°35	10°11	9≈ 5	12 <b>る</b> 57	25°18	0 <b>m</b> 39	0° 2	18°13	5≈55	S 2
M 3	22 48 15	10°19'44	25°23	29°14	26°10	12°18	6°41	10°13	9° 3	12°57	25°18	0°38	29€59	18°20	5°52	M 3
T 4	22 52 11	11°18'02	8 <b>亞</b> 31	1 <b>m</b> y 7	27°13	12°55	6°46	10°14	9° 1	12°56	25°19	0°37	29°56	18°26	5°50	T 4
W 5	22 56 8	12°16'22	21°21	3° 1	28°15	13°32	6°52	10°17	9° 0	12°55	25°19	0°35	29°53	18°33	5°47	W 5
T 6	23 0 5	13°14'44	3 <b>M</b> .53	4°55	29°18	14° 9	6°58	10°19	8°58	12°55	25°20	0°34	29°50	18°40	5°45	T 6
F 7	23 4 1	14°13'07	16°10	6°49	0 <b>M</b> .20	14°46	7° 5	10°21	8°56	12°54	25°20	0°32	29°46	18°47	5°43	F 7
S 8	23 7 58	15°11'32	28°14	8°44	1°22	15°23	7°11	10°23	8°54	12°54	25°20	0°31	29°43	18°53	5°40	S 8
S 9	23 11 54	16° 9'58	10 <b>×</b> 11	10°38	2°24	16° 0	7°17	10°26	8°52	12°53	25°21	0°30	29°40	19° 0	5°38	S 9
M10	23 15 51	17° 8'26	2 <u>2</u> ° 4	12°32	3°25	16°36	7°24	10°28	8°51	12°53	25°21	0°D30	29°37	19° 7	5°36	M10
T 11	23 19 47	18° 6'56	3 <b>ට</b> 58	14°25	4°26	17°13	7°31	10°31	8°49	12°52	25°21	0°31	29°34	19°13	5°34	T 11
W12	23 23 44	19° 5'28	15°57	16°18	5°27	17°49	7°38	10°33	8°47	12°52	25°22	0°32	29°31	19°20	5°32	W12
T 13	23 27 40	20° 4'01	28° 7	18°10	6°27	18°26	7°45	10°36	8°46	12°51	25°22	0°34	29°27	19°27	5°30	T 13
F 14	23 31 37	21° 2'36	10≈31	20° 2	7°27	19° 2	7°52	10°39	8°44	12°51	25°22	0°35	29°24	19°34	5°28	F 14
S 15	23 35 34	22° 1'12	23°12	21°52	8°27	19°38	7°59	10°42	8°43	12°51	25°22	0°36	29°21	19°40	5°26	S 15
S 16	23 39 30	22°59'50	6 <b>₩</b> 11	23°42	9°27	20°14	8° 7	10°45	8°41	12°50	25°23	0°R36	29°18	19°47	5°24	S 16
M17	23 43 27	23°58'31	19°31	25°30	10°26	20°50	8°14	10°48	8°40	12°50	25°23	0°35	29°15	19°54	5°22	M17
T 18	23 47 23	24°57'13	3 <b>℃</b> 9	27°18	11°24	21°25	8°22	10°51	8°38	12°50	25°23	0°33	29°11	20° 0	5°21	T 18
W19	23 51 20	25°55'57	17° 3	29° 5	12°22	22° 1	8°30	10°55	8°37	12°50	25°23	0°29	29° 8	20° 7	5°19	W19
T 20	23 55 16	26°54'43	1810	0 <b>ჲ</b> 51	13°20	22°37	8°38	10°58	8°35	12°50	25°23	0°26	29° 5	20°14	5°17	T 20
F 21	23 59 13	27°53'32	15°24	2°36	14°17	23°12	8°46	11° 1	8°34	12°49	25°23	0°22	29° 2	20°21	5°16	F 21
S 22	0 3 9	28°52'22	29°43	4°20	15°14	23°47	8°54	11° 5	8°33	12°49	25°24	0°19	28°59	20°27	5°14	S 22
S 23	0 7 6	29°51'16	14 <b>Ⅱ</b> 1	6° 3	16°11	24°23	9° 2	11° 8	8°32	12°49	25°24	0°16	28°56	20°34	5°13	S 23
M24	0 11 3	0 <b>ჲ</b> 50'11	28°16	7°45	17° 7	24°58	9°11	11°12	8°30	12°49	25°24	0°D15	28°52	20°41	5°12	M24
T 25	0 14 59	1°49'09	129524	9°26	18° 2	25°33	9°20	11°16	8°29	12°D49	25°R24	0°16	28°49	20°47	5°10	T 25
W26	0 18 56	2°48'09	26°24	11° 6	18°57	26° 8	9°28	11°20	8°28	12°49	25°24	0°17	28°46	20°54	5° 9	W26
T 27	0 22 52	3°47'12	10 <b>Ω</b> 15	12°46	19°52	26°42	9°37	11°24	8°27	12°49	25°24	0°19	28°43	21° 1	5° 8	T 27
F 28	0 26 49	4°46'17	23°57	14°24	20°46	27°17	9°46	11°28	8°26	12°49	25°24	0°R20	28°40	21° 8	5° 7	F 28
S 29	0 30 45	5°45'23	7 <b>m</b> )28	16° 2	21°39	27°51	9°55	11°32	8°25	12°50	25°24	0°20	28°37	21°14	5° 6	S 29
S 30	0 34 42	6 <b>₽</b> 44'33	20 <b>m</b> /48	17 <b>≏</b> 39	22 <b>M</b> 32	28926	10 <b>∡</b> 5	11 <b>∡</b> 36	8≈24	12 <b>궁</b> 50	25耳23	0 <b>m</b> 18	28€33	21 <b>~</b> 21	5≈ 5	S 30

Day	0	D	ğ	ç	2	3	2	+	ħ	<u> </u>	)	ţ(	<del>,</del>	ſ	Е	)	ß	ß	Ç	Ą	5
	decl	decl lat	decl la	at decl	lat decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	8n26	11n54 0s14	14n27	1n30 10s53	1 s39 23n34	0n33	20 s 5 9	0n27	20 s35	1n27	18 s40	0s41	22 s 7	0n44	16n55	6 s 2 9	11n16	11n28	18s 4	11 s47	7n15
S 2	8 4			1 36 11 21	1 44 23 31	0 34			20 35		18 41			0 44	16 55		11 16				7 15
M 3 T 4	7 42	3 52 2 13		1 40 11 49	1 50 23 29			0 26		1 26	-		22 7	0 44			11 16			11 49	7 14
W 5	7 20 6 58	0s24 3 15 4 33 4 5		1 43 12 17 1 46 12 45	1 55 23 26 2 0 23 24			0 26 0 26		1 26 1 26	-		22 7 22 7	0 44	16 55 16 55		11 16 11 17	-		11 50 11 51	7 14 7 14
T 6	6 36			1 47 13 12	2 6 23 21	0 30			20 37	1 26	-		22 8	0 44	16 55		11 17	-		11 51	7 13
F 7	6 13	11 49 5 6	10 42	1 48 13 39	2 11 23 18	0 38	21 6	0 26	20 38	1 25	18 43		22 8	0 44	16 55	6 29	11 18	11 34		11 52	7 13
S 8	5 51	14 40 5 16	9 59	1 48 14 6	2 16 23 14	0 39	21 8	0 26	20 38	1 25	18 43	0 41	22 8	0 44	16 55	6 29	11 19	11 35	18 10	11 53	7 13
S 9	5 28	16 53 5 11	9 15	1 48 14 33	2 22 23 11	0 40	21 9	0 25	20 39	1 25	18 44	0 41	22 8	0 44	16 55	6 29	11 19	11 36	18 11	11 54	7 12
M10		18 21 4 54		1 47 14 59	2 27 23 8			0 25		1 25	-	0 41	22 8	0 44	16 55		11 19				
T 11 W12		19 2 4 24 18 51 3 42	7 45 6 59	1 45 15 25 1 43 15 51	2 33 23 4 2 38 23 0		21 11 21 13	0 25 0 25		1 25 1 24		-	22 8 22 8	0 44	16 55		11 19 11 18				
T 13	3 56	17 48 2 50		1 43 13 31	2 43 22 56		21 13	0 25		1 24	-	-	22 8	0 44	16 54 16 54		11 18				7 11
F 14		15 54 1 48		1 36 16 41	2 49 22 52		21 15	0 24		1 24		-	22 8	0 44	16 54		11 17				7 10
S 15	3 10	13 10 0 41	4 39	1 33 17 6	2 54 22 48	0 46	21 17	0 24	20 42	1 24	18 46	0 41	22 8	0 44	16 54	6 30	11 17	11 43	18 16	11 59	7 10
S 16	2 47	9 44 0s31	3 52	1 28 17 30	3 0 22 44	0 47	21 18	0 24	20 43	1 24	18 47	0 41	22 8	0 44	16 54	6 30	11 17	11 44	18 17	12 0	7 10
M17	2 24	5 43 1 42	_	1 24 17 54	3 5 22 39		21 19	0 24	-		18 47	0 41	22 8	0 43	16 54		11 17				7 9
T 18	2 1	1 20 2 49		1 19 18 17	3 10 22 35		21 21	0 24	-	1 23			22 8	0 43	16 54		11 18				, -
W19 T 20	1 37 1 14	3n12 3 48 7 37 4 33	1 30 0 43	1 14 18 41 1 8 19 3	3 15 22 30 3 21 22 25		21 22 21 24	0 24 0 23			18 48 18 48		22 8 22 9	0 43 0 43	16 54 16 54		11 19 11 20				
F 21		11 39 5 2		1 3 19 26	3 26 22 20		21 25		20 46		18 48			0 43	16 54		11 22			12 4	7 7
S 22	0 27	15 2 5 13	0 51	0 57 19 48	3 31 22 15	0 53	21 26	0 23	20 47	1 22	18 49	0 41	22 9	0 43	16 54	6 31	11 23	11 51	18 22	12 5	7 7
S 23	0 3	17 29 5 4	1 38	0 51 20 9	3 36 22 10	0 54	21 28	0 23	20 48	1 22	18 49	0 41	22 9	0 43	16 53	6 31	11 24	11 52	18 22	12 6	7 7
M24		18 52 4 36		0 45 20 31	3 41 22 5		21 29	0 23		1 22	-		22 9	0 43	16 53		11 24				7 6
T 25	0 43	19 3 3 52		0 38 20 51	3 47 21 59		21 31	0 23			18 50		22 9	0 43	16 53		11 24				7 6
W26 T 27	1 7 1 30	18 3 2 55 15 59 1 47		0 32 21 12 0 25 21 32	3 52 21 54 3 56 21 48		21 32 21 34	0 22 0 22		1 22 1 21			22 9 22 9	0 43 0 43	16 53 16 53		11 23 11 23				7 5
F 28		13 1 0 35		0 23 21 32 0 18 21 51	4 1 21 42		21 35	0 22		1 21			22 9	0 43	16 53		11 23			-	7 4
S 29	2 17	9 23 0n39	-	0 11 22 10	4 6 21 37		21 37		20 52	1 21			22 9	0 43	16 53		11 23			-	7 4
S 30	2 s41	5n19 1n49	6 s 5 2	0n 5 22 s28	4s11 21n31	1n 1	21 s38	0n22	20 s53	1n21	18 s 5 1	0s41	22s 9	0n43	16n53	6s31	11n23	12n 0	18 s 28	12s11	7n 3

Julian Day Number = 2328701.5, Delta T = 33.90 sec Ecliptic obliquity =  $23^{\circ}28'51$ , Nutation = -  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}02'44$ , Lahiri =  $19^{\circ}09'45$ Greg. Calendar

OCTOBER 1663 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	¥	В	R	ດ	Ç	ķ	Day
M 1	0 38 38	7 <b>₽</b> 43'44	3₽55	19 <b>≏</b> 15	23 <b>M</b> -24	299 0	10 <b>½</b> 14	11 <b>×</b> 740	8°R23	12 <b>云</b> 50	25°R23	0°R14	28€30	21 🕶 28	5°R 4	M 1
T 2	0 42 35	8°42'57	16°49	20°51	24°15	29°34	10°23	11°45	8≈23	12°50	25 <b>II</b> 23	0m 9	28°27	21°34	5≈ 3	T 2
W 3	0 46 31	9°42'13	29°29	22°25	25° 6	0Ω 8	10°33	11°49	8°22	12°50	25°23	0° 2	28°24	21°41	5° 2	W 3
T 4	0 50 28	10°41'30	11 <b>M</b> 55	23°59	25°57	0°42	10°43	11°53	8°21	12°51	25°23	29 <b>N</b> 55	28°21	21°48	5° 1	T 4
F 5	0 54 25	11°40'49	24° 8	25°32	26°46	1°16	10°52	11°58	8°20	12°51	25°23	29°47	28°17	21°55	5° 1	F 5
S 6	0 58 21	12°40'11	6 <b>₹</b> 11	27° 5	27°35	1°49	11° 2	12° 3	8°20	12°51	25°22	29°41	28°14	22° 1	5° 0	S 6
S 7	1 2 18	13°39'34	18° 6	28°36	28°23	2°22	11°12	12° 7	8°19	12°52	25°22	29°35	28°11	22° 8	5° 0	S 7
M 8	1 6 14	14°38'59	29°57	OM 7	29°10	2°56	11°22	12°12	8°19	12°52	25°22	29°32	28° 8	22°15	4°59	M 8
T 9	1 10 11	15°38'25	11 <b>る</b> 49	1°37	29°56	3°29	11°33	12°17	8°18	12°53	25°22	29°D31	28° 5	22°21	4°59	T 9
W10	1 14 7	16°37'54	23°46	3° 7	0 <b>∡</b> 742	4° 2	11°43	12°22	8°18	12°53	25°21	29°31	28° 2	22°28	4°59	W10
T 11	1 18 4	17°37'24	5≈54	4°36	1°26	4°35	11°53	12°27	8°17	12°54	25°21	29°32	27°58	22°35	4°58	T 11
F 12	1 22 0	18°36'56	18°18	6° 4	2°10	5° 7	12° 4	12°32	8°17	12°54	25°21	29°33	27°55	22°41	4°58	F 12
S 13	1 25 57	19°36'30	1 <b>∺</b> 2	7°31	2°52	5°40	12°14	12°37	8°17	12°55	25°20	29°R34	27°52	22°48	4°58	S 13
S 14	1 29 54	20°36'06	14° 9	8°57	3°34	6°12	12°25	12°42	8°17	12°55	25°20	29°33	27°49	22°55	4°D58	S 14
M15	1 33 50	21°35'43	27°41	10°23	4°14	6°44	12°36	12°47	8°16	12°56	25°19	29°30	27°46	23° 2	4°58	M15
T 16	1 37 47	22°35'22	11 <b>Y</b> 39	11°48	4°53	7°16	12°47	12°52	8°16	12°57	25°19	29°24	27°42	23° 8	4°58	T 16
W17	1 41 43	23°35'04	25°58	13°12	5°31	7°48	12°58	12°58	8°16	12°58	25°19	29°17	27°39	23°15	4°58	W17
T 18	1 45 40	24°34'47	10833	14°35	6° 8	8°20	13° 9	13° 3	8°D16	12°58	25°18	29° 8	27°36	23°22	4°59	T 18
F 19	1 49 36	25°34'32	25°16	15°58	6°44	8°51	13°20	13° 9	8°16	12°59	25°18	28°59	27°33	23°28	4°59	F 19
S 20	1 53 33	26°34'20	10耳 1	17°19	7°18	9°23	13°31	13°14	8°16	13° 0	25°17	28°51	27°30	23°35	4°59	S 20
S 21	1 57 29	27°34'10	24°39	18°40	7°51	9°54	13°43	13°20	8°16	13° 1	25°16	28°45	27°27	23°42	5° 0	S 21
M22	2 1 26	28°34'02	9 <b>9</b> 5	19°59	8°22	10°25	13°54	13°25	8°16	13° 2	25°16	28°41	27°23	23°49	5° 0	M22
T 23	2 5 23	29°33'56	23°16	21°17	8°52	10°56	14° 6	13°31	8°17	13° 3	25°15	28°39	27°20	23°55	5° 1	T 23
W24	2 9 19	0ML33'53	$7\Omega 10$	22°34	9°21	11°26	14°17	13°37	8°17	13° 4	25°15	28°D39	27°17	24° 2	5° 2	W24
T 25	2 13 16	1°33'52	20°47	23°49	9°48	11°57	14°29	13°43	8°17	13° 5	25°14	28°40	27°14	24° 9	5° 2	T 25
F 26	2 17 12	2°33'53	4 Mp 10	25° 3	10°13	12°27	14°40	13°48	8°18	13° 6	25°13	28°R40	27°11	24°15	5° 3	F 26
S 27	2 21 9	3°33'56	17°19	26°16	10°37	12°57	14°52	13°54	8°18	13° 7	25°13	28°38	27° 8	24°22	5° 4	S 27
S 28	2 25 5	4°34'01	0 <b>ჲ</b> 16	27°26	10°58	13°27	15° 4	14° 0	8°19	13° 8	25°12	28°34	27° 4	24°29	5° 5	S 28
M29	2 29 2	5°34'08	13° 2	28°35	11°18	13°56	15°16	14° 6	8°19	13° 9	25°11	28°27	27° 1	24°36	5° 6	M29
T 30	2 32 58	6°34'17	25°38	29°41	11°36	14°26	15°28	14°12	8°20	13°10	25°11	28°17	26°58	24°42	5° 7	T 30
W31	2 36 55	7 <b>M</b> .34'28	8 <b>M</b> 4	0 <b>∡</b> 745	11 <b>×</b> 752	14 <b>Ω</b> 55	15 <b>才</b> 40	14 <b>×</b> 18	8≈20	13 <b>ਰ</b> 11	25 <b>I</b> I10	$28\Omega$ 5	$26\Omega55$	24 <b>₹</b> 49	5≈ 8	W31

Day	0	D	ğ	·	ď	4	ħ	)Å(	并	Р	w v	Ç	& &
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl dec	decl	decl lat
M 1	3 s 4	1n 5 2n52	7s35 0s	2 22 s47 4 s16	21n25 1n 2	21 s40 0n22	20s53 1n21	18 s 51 0 s 41	22 s 9 0n43	16n53 6s32	11n24 12n	1 18 s 29	12s11 7n 3
T 2	3 28	3s 9 3 46	8 18 0	9 23 4 4 20	21 19 1 3	21 41 0 22	20 54 1 21	18 51 0 41	22 9 0 43	16 53 6 32	11 26 12	2 18 29	12 12 7 2
W 3	3 51	7 9 4 27	9 0 0 1	16 23 21 4 25	21 12 1 5	21 43 0 21	20 55 1 20	18 51 0 41	22 9 0 43	16 52 6 32	11 29 12	3 18 30	12 13 7 2
T 4	4 14	10 46 4 54	9 41 0 2			21 44 0 21	20 56 1 20	18 52 0 41	22 9 0 43	16 52 6 32	11 31 12	4 18 31	
F 5			10 22 0 3			21 46 0 21		18 52 0 40			-	5 18 32	
S 6	5 1	16 20 5 7	11 2 0 3	38 24 9 4 38	20 54 1 8	21 47 0 21	20 57 1 20	18 52 0 40	22 9 0 43	16 52 6 32	11 36 12	6 18 32	12 15 7 0
S 7	5 24	18 5 4 53	11 41 0 4	45 <mark>24 25</mark> 4 42	20 47 1 9	21 49 0 21	20 58 1 20	18 52 0 40	22 9 0 43	16 52 6 32	11 38 12	8 18 33	12 15 7 0
M 8	5 47	19 2 4 27	12 20 0 5	52 24 39 4 46	20 40 1 10	21 51 0 21	20 59 1 20	18 52 0 40	22 9 0 43	16 52 6 32	11 39 12	9 18 34	12 16 6 59
T 9	6 10	19 9 3 49	12 58 0 5	58 24 53 4 50	20 34 1 11	21 52 0 21	21 0 1 19	18 52 0 40	22 9 0 43	16 52 6 32	11 40 12 1	0 18 34	12 16 6 59
W10	6 33	18 25 3 1	13 36 1	5 25 7 4 53	20 27 1 12	21 54 0 20	21 0 1 19	18 52 0 40	22 9 0 43	16 52 6 32	11 40 12 1	1 18 35	12 17 6 58
T 11	6 56	16 49 2 4	14 12 1 1			21 55 0 20					11 39 12 1		
F 12						21 57 0 20					11 39 12 1		
S 13	7 41	11 15 0s 8	15 23 1 2	25   25   44   5   4	20 7 1 16	21 58 0 20	21 3 1 19	18 52 0 40	22 9 0 43	16 51 6 33	11 39 12 1	4 18 37	12 18 6 57
S 14	8 4	7 27 1 18	15 57 1 3	32 25 55 5 7	20 0 1 17	22 0 0 20	21 4 1 19	18 52 0 40	22 9 0 43	16 51 6 33	11 39 12 1	5 18 38	12 19 6 56
M15	8 26	3 8 2 25	16 31 1 3	38 <mark>26 6</mark> 5 10	19 53 1 18	22 1 0 20	21 4 1 18	18 53 0 40	22 9 0 43	16 51 6 33	11 40 12 1	6 18 39	12 19 6 56
T 16	8 48	1n27 3 26			19 46 1 19			18 53 0 40			11 42 12 1		
W17	9 10		17 35 1 5			22 4 0 19		18 53 0 40			11 45 12 1		
T 18		10 26 4 49				22 6 0 19		18 52 0 40			11 48 12 2		
F 19					19 25 1 23			18 52 0 40			11 51 12 2		
S 20	10 16	17 3 4 59	19 4 2	7 26 51 5 22	19 17 1 24	22 9 0 19	21 9 1 18	18 52 0 40	22 9 0 42	16 51 6 33	11 54 12 2	2 18 42	12 21 6 53
S 21	10 38	18 48 4 35					21 9 1 17	18 52 0 40	22 8 0 42	16 51 6 33	11 56 12 2	3 18 43	12 22 6 53
M22	10 59	19 18 3 53	19 59 2 1	18 27 5 5 25			21 10 1 17	18 52 0 40	22 8 0 42	16 51 6 33	11 57 12 2	4 18 44	
T 23								18 52 0 40			11 58 12 2		
W24		-						18 52 0 40			11 58 12 2		
T 25								18 52 0 40			11 58 12 2		
F 26	12 23							18 52 0 40			11 58 12 2		
S 27	12 44	6 31 1 38	21 55 2 3	38 27 29 5 28	18 26 1 33	22 19 0 18	21 14 1 17	18 52 0 40	22 8 0 42	16 50 6 34	11 58 12 2	9 18 47	12 24 6 50
S 28	13 4	2 20 2 40	22 14 2 4	41 <mark>27 32</mark> 5 28			21 15 1 16	18 52 0 40	22 8 0 42	16 50 6 34	12 0 12 3	1 18 48	
M29	13 24			43 <b>27</b> 34 5 27				18 51 0 40			_	2 18 49	
T 30	13 44			45 <b>27</b> 36 5 26				18 51 0 40				3 18 49	
W31	14 s 4	9 s45 4n43	23 s 4 2 s4	47 <b>27 s36</b> 5 s24	17n57 1n38	22 s25 0n18	21 s 18 1 n 16	18 s51 0 s40	22 s 8 0n42	16n50 6s34	12n10 12n3	4 18 s 50	12 s25 6n48

Julian Day Number = 2328731.5, Delta T = 33.85 sec Ecliptic obliquity =  $23^{\circ}28'52$ , Nutation = -  $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}02'48$ , Lahiri =  $19^{\circ}09'49$ Greg. Calendar

NOVEMBER 1663 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	并	В	n	Ω	Ç	ķ	Day
T 1	2 40 52	8 <b>M</b> 34'41	20 <b>TL</b> 19	1 <b>∡</b> 746	12 <b>₹</b> 6	15 <b>Ω</b> 24	15 <b>₹</b> 52	14 <b>×</b> 25	8≈21	13 <b>る</b> 12	25°R 9	27°R52	26 <b>N</b> 52	24 <b>₹</b> 56	5≈ 9	T 1
F 2	2 44 48	9°34'56	2 <b>₹</b> 26	2°43	12°18	15°53	16° 5	14°31	8°22	13°13	25 <b>II</b> 8	$27\Omega 38$	26°48	25° 2	5°11	F 2
S 3	2 48 45	10°35'12	14°25	3°38	12°28	16°21	16°17	14°37	8°22	13°15	25° 8	27°26	26°45	25° 9	5°12	S 3
S 4	2 52 41	11°35'30	26°17	4°28	12°36	16°50	16°29	14°43	8°23	13°16	25° 7	27°15	26°42	25°16	5°13	S 4
M 5	2 56 38	12°35'50	8 වි	5°14	12°41	17°18	16°42	14°50	8°24	13°17	25° 6	27° 8	26°39	25°22	5°15	M 5
T 6	3 0 34	13°36'11	19°56	5°54	12°44	17°46	16°54	14°56	8°25	13°19	25° 5	27° 3	26°36	25°29	5°16	T 6
W 7	3 4 31	14°36'34	1≈50	6°30	12°R45	18°13	17° 7	15° 2	8°26	13°20	25° 4	27° 0	26°33	25°36	5°18	W 7
T 8	3 8 27	15°36'58	13°54	6°59	12°43	18°41	17°19	15° 9	8°27	13°21	25° 3	27°D 0	26°29	25°43	5°20	T 8
F 9	3 12 24	16°37'23	26°13	7°21	12°38	19° 8	17°32	15°15	8°28	13°23	25° 3	27°R 0	26°26	25°49	5°21	F 9
S 10	3 16 21	17°37'50	8 <b>¥</b> 53	7°35	12°32	19°34	17°45	15°22	8°29	13°24	25° 2	26°59	26°23	25°56	5°23	S 10
S 11	3 20 17	18°38'18	21°58	7°R41	12°23	20° 1	17°57	15°28	8°31	13°26	25° 1	26°57	26°20	26° 3	5°25	S 11
M12	3 24 14	19°38'47	5 <b>Υ</b> 31	7°38	12°11	20°27	18°10	15°35	8°32	13°27	25° 0	26°53	26°17	26° 9	5°27	M12
T 13	3 28 10	20°39'18	19°35	7°26	11°57	20°53	18°23	15°41	8°33	13°29	24°59	26°46	26°14	26°16	5°29	T 13
W14	3 32 7	21°39'50	4 <b>8</b> 5	7° 3	11°40	21°19	18°36	15°48	8°34	13°30	24°58	26°36	26°10	26°23	5°31	W14
T 15	3 36 3	22°40'24	18°58	6°29	11°21	21°45	18°49	15°55	8°36	13°32	24°57	26°25	26° 7	26°30	5°33	T 15
F 16	3 40 0	23°40'59	4 <b>Ⅱ</b> 5	5°46	11° 0	22°10	19° 2	16° 1	8°37	13°34	24°56	26°13	26° 4	26°36	5°35	F 16
S 17	3 43 56	24°41'35	19°14	4°51	10°37	22°35	19°15	16° 8	8°39	13°35	24°55	26° 2	26° 1	26°43	5°38	S 17
S 18	3 47 53	25°42'14	49517	3°48	10°11	22°59	19°28	16°15	8°40	13°37	24°54	25°53	25°58	26°50	5°40	S 18
M19	3 51 50	26°42'53	19° 3	2°37	9°44	23°24	19°41	16°22	8°42	13°38	24°53	25°47	25°54	26°56	5°42	M19
T 20	3 55 46	27°43'35	3 <b>Ω</b> 27	1°19	9°14	23°48	19°54	16°28	8°43	13°40	24°52	25°44	25°51	27° 3	5°45	T 20
W21	3 59 43	28°44'18	17°28	29M58	8°44	24°11	20° 8	16°35	8°45	13°42	24°51	25°43	25°48	27°10	5°47	W21
T 22	4 3 39	29°45'03	1 Mp 6	28°36	8°11	24°35	20°21	16°42	8°47	13°44	24°50	25°43	25°45	27°16	5°50	T 22
F 23	4 7 36	0 <b>∡</b> 145'49	14°22	27°15	7°38	24°58	20°34	16°49	8°48	13°45	24°49	25°42	25°42	27°23	5°52	F 23
S 24	4 11 32	1°46'37	27°20	25°59	7° 3	25°21	20°47	16°56	8°50	13°47	24°48	25°40	25°39	27°30	5°55	S 24
S 25	4 15 29	2°47'26	10 <b>♀</b> 2	24°50	6°28	25°43	21° 1	17° 3	8°52	13°49	24°47	25°36	25°35	27°37	5°58	S 25
M26	4 19 25	3°48'17	22°32	23°49	5°52	26° 5	21°14	17°10	8°54	13°51	24°45	25°28	25°32	27°43	6° 0	M26
T 27	4 23 22	4°49'09	4M52	22°58	5°15	26°26	21°28	17°17	8°56	13°53	24°44	25°17	25°29	27°50	6° 3	T 27
W28	4 27 19	5°50'03	17° 4	22°19	4°39	26°48	21°41	17°24	8°58	13°55	24°43	25° 4	25°26	27°57	6° 6	W28
T 29	4 31 15	6°50'57	29° 9	21°51	4° 3	27° 9	21°55	17°31	9° 0	13°56	24°42	24°50	25°23	28° 3	6° 9	T 29
F 30	4 35 12	7 <b>.7</b> 51'53	11🗷 7	21 <b>M</b> .34	3 <b>∡</b> 27	$27\Omega^{29}$	22 <b>×</b> 8	17 <b>×</b> 38	9≈ 2	13 <b>る</b> 58	24 <b>Ⅱ</b> 41	$24\Omega 35$	25 <b>Ω</b> 19	28 <b>×</b> 10	6≈12	F 30

Day	0	D		Į	Q	♂ <sup>™</sup>		4	ŧ	ì	)	ł(	4	(	Р	)	n	v	Ç	, k	
	decl	decl lat	decl	lat	decl lat	decl lat	dec	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1 F 2 S 3	14 s23 14 42 15 1	15 47 5	8 23 s17 0 23 29 8 23 39	2 48 27	7 36 5 20	17 42 1	39 22 s2 d 41 22 23 42 22 29	0 17	21 s19 21 19 21 20	1 16	18 s51 18 51 18 50	0 40		0n42 0 42 0 42	16n50 16 50 16 49	6 34		12 36	18 s 5 1 18 s 5 1 18 s 5 2		6n48 6 47 6 47
S 4 M 5 T 6 W 7 T 8	15 20 15 39 15 57 16 15 16 33	19 26 3 4 18 59 3 17 41 2	4 23 47 8 23 54 3 23 58 9 24 0 9 24 0	2 44 27 2 41 27 2 37 27	7 29 5 11 7 26 5 6 7 21 5 2	17 21 1 17 13 1 17 6 1	44 22 3 45 22 33 46 22 33 48 22 33 49 22 36	0 17 0 17 0 17 0 17	21 21 21 22 21 23 21 24 21 24	1 15 1 15 1 15	18 50	0 40 0 40 0 40	22 7 22 7 22 7	0 42 0 42 0 42	16 49 16 49 16 49 16 49 16 49	6 34 6 34 6 34	12 29 12 31 12 32	12 39 12 40 12 41	18 53 18 53 18 54 18 55 18 55	12 26 12 26 12 26	6 46 6 46 6 45 6 45 6 44
F 9 S 10	16 50 17 7	'	4 23 58 2 23 52				51 22 3° 52 22 3°		21 25 21 26		18 49 18 48			0 42 0 42					18 56 18 56	12 26 12 26	6 44 6 43
S 11 M12 T 13 W14 T 15 F 16 S 17	17 24 17 41 17 57 18 13 18 28 18 44 18 59	0 41 3 4 3n58 4 6 8 33 4 33 12 43 4 53 16 8 4 5	8 23 44 9 23 33 0 23 19 8 23 2 8 22 41 7 22 17 6 21 49	1 58 26 1 46 26 1 32 26 1 16 26 1 0 25	6 45 4 29 6 34 4 21 6 23 4 12 6 11 4 3 5 58 3 53	16 31 1 16 24 1 16 17 1 16 10 1	53 22 40 55 22 4 56 22 4: 58 22 4: 59 22 4: 1 22 4: 2 22 4:	0 16 2 0 16 4 0 16 5 0 16 6 0 16	21 27 21 28 21 29 21 29 21 30 21 31 21 32	1 15 1 15 1 14 1 14 1 14	18 47 18 47 18 47	0 39 0 39 0 39 0 39 0 39	22 7 22 6 22 6 22 6 22 6 22 6	0 42 0 42 0 42 0 42 0 42	16 49 16 49 16 49 16 49 16 48 16 48	6 35 6 35 6 35 6 35 6 35	12 34 12 37	12 47 12 48 12 49 12 50 12 51	18 58 18 58 18 59 19 0 19 0	12 26	6 43 6 42 6 42 6 41 6 41 6 40 6 40
S 18 M19 T 20 W21 T 22 F 23 S 24	19 13 19 27 19 41 19 55 20 8 20 21 20 33	19 9 3 17 33 1 5: 14 56 0 4: 11 33 0n2: 7 39 1 3	3 19 33 8 18 55	0 2 25 0n19 24 0 39 24 0 59 24 1 18 24	5 14 3 19 4 57 3 6 4 39 2 53 4 20 2 40 4 1 2 26	15 37 2 15 30 2 15 24 2 15 18 2	4 22 44 6 22 44 7 22 5 9 22 5 10 22 5 12 22 5 14 22 5	0 15 0 15 2 0 15 3 0 15 4 0 15	21 33 21 34 21 35 21 36 21 36 21 37	1 14 1 14 1 14 1 14 1 14	-	0 39 0 39 0 39 0 39 0 39	22 6 22 5 22 5 22 5 22 5 22 5	0 41 0 41 0 41 0 41 0 41 0 41 0 41	16 48 16 48 16 48 16 48 16 48 16 48	6 35 6 35 6 35 6 35 6 35	12 55 12 57 12 58 12 58 12 58 12 58 12 59	12 54 12 55 12 56 12 58 12 59	19 2 19 3 19 3 19 4 19 4	12 26 12 25 12 25 12 25 12 25 12 25 12 25 12 25	6 39 6 39 6 39 6 38 6 38 6 37 6 37
S 25 M26 T 27 W28 T 29 F 30	20 45 20 57 21 8 21 19 21 29 21 s40	4 52 4 1. 8 45 4 4. 12 12 4 5. 15 8 4 5.	2 16 21 7 16 2	2 5 23 2 16 22 2 25 22 2 32 21	3 0 1 42 2 38 1 27 2 16 1 11 1 54 0 56	15 0 2 14 54 2 14 48 2 14 42 2	15 22 56 17 22 57 19 22 58 20 22 58 22 23 6 24 23 s	7 0 15 8 0 15 9 0 14 0 0 14	21 38 21 39 21 39 21 40 21 41 21 s42	1 13 1 13 1 13 1 13	18 42 18 41 18 41 18 40 18 40 18 s39	0 39 0 39 0 39 0 39	22 5 22 4 22 4	0 41 0 41 0 41 0 41 0 41 0n41	16 48 16 48 16 48 16 48 16 48 16n48	6 35	13 3 13 7 13 11 13 16	13 2 13 3 13 4 13 5	19 6 19 7 19 7 19 8	12 24 12 24 12 24 12 23 12 23 12 s23	6 36 6 36 6 36 6 35 6 35 6n34

 $\label{eq:Julian Day Number = 2328762.5, Delta T = 33.79 sec} \\ Ecliptic obliquity = 23°28'51, Nutation = -0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°02'53, Lahiri = 19°09'53Greg. Calendar \\ \\$ 

DECEMBER 1663 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ	)ф(	并	В	n	v	Ç	ķ	Day
S 1	4 39 8	8 <b>×</b> 752'50	23 <b>×</b> 1	21°D29	2°R52	27 <b>N</b> 49	22 <b>×</b> 122	17 <b>×7</b> 45	9≈ 4	14궁 0	24°R40	24°R22	25 <b>Ω</b> 16	28 <b>×</b> 17	6≈15	S 1
S 2	4 43 5	9°53'48	4 <b>ප</b> 51	21 <b>M</b> .34	2 <b>√</b> 18	28° 9	22°35	17°52	9° 6	14° 2	24П39	24 <b>Ω</b> 10	25°13	28°23	6°18	S 2
M 3	4 47 1	10°54'47	16°40	21°48	1°45	28°28	22°49	17°59	9° 8	14° 4	24°38	24° 1	25°10	28°30	6°21	M 3
T 4	4 50 58	11°55'47	28°30	22°12	1°13	28°47	23° 3	18° 6	9°11	14° 6	24°36	23°55	25° 7	28°37	6°24	T 4
W 5	4 54 54	12°56'47	10≈24	22°43	0°43	29° 5	23°16	18°13	9°13	14° 8	24°35	23°52	25° 4	28°44	6°28	W 5
T 6	4 58 51	13°57'48	22°26	23°22	0°14	29°23	23°30	18°20	9°15	14°10	24°34	23°D51	25° 0	28°50	6°31	T 6
F 7	5 2 48	14°58'49	4 <b>) (</b> 42	24° 7	29 <b>M</b> .48	29°41	23°44	18°27	9°17	14°12	24°33	23°52	24°57	28°57	6°34	F 7
S 8	5 6 44	15°59'51	17°17	24°58	29°23	29°58	23°57	18°34	9°20	14°14	24°32	23°R52	24°54	29° 4	6°38	S 8
S 9	5 10 41	17° 0'54	0 <b>Υ</b> 15	25°54	29° 1	0 <b>m</b> ) 14	24°11	18°41	9°22	14°16	24°30	23°51	24°51	29°10	6°41	S 9
M10	5 14 37	18° 1'56	13°40	26°54	28°41	0°30	24°25	18°48	9°25	14°18	24°29	23°48	24°48	29°17	6°45	M10
T 11	5 18 34	19° 3'00	27°36	27°58	28°23	0°46	24°38	18°55	9°27	14°21	24°28	23°43	24°45	29°24	6°48	T 11
W12	5 22 30	20° 4'04	128 2	29° 5	28° 7	1° 1	24°52	19° 2	9°30	14°23	24°27	23°35	24°41	29°30	6°52	W12
T 13	5 26 27	21° 5'08	26°54	0 <b>∡</b> 15	27°54	1°15	25° 6	19° 9	9°32	14°25	24°26	23°26	24°38	29°37	6°55	T 13
F 14	5 30 23	22° 6'13	12 <b>I</b> I 6	1°27	27°44	1°30	25°20	19°16	9°35	14°27	24°25	23°16	24°35	29°44	6°59	F 14
S 15	5 34 20	23° 7'18	27°27	2°42	27°36	1°43	25°33	19°23	9°38	14°29	24°23	23° 7	24°32	29°51	7° 3	S 15
S 16	5 38 17	24° 8'24	129544	3°59	27°30	1°56	25°47	19°30	9°40	14°31	24°22	22°59	24°29	29°57	7° 6	S 16
M17	5 42 13	25° 9'31	27°48	5°18	27°27	2° 9	26° 1	19°37	9°43	14°33	24°21	22°54	24°25	0중 4	7°10	M17
T 18	5 46 10	26°10'38	12 <b>Ω</b> 31	6°38	27°D27	2°20	26°15	19°44	9°46	14°36	24°20	22°52	24°22	0°11	7°14	T 18
W19	5 50 6	27°11'45	26°47	7°59	27°28	2°32	26°29	19°51	9°48	14°38	24°19	22°D52	24°19	0°17	7°18	W19
T 20	5 54 3	28°12'54	10 <b>m</b> 36	9°21	27°33	2°43	26°42	19°58	9°51	14°40	24°17	22°52	24°16	0°24	7°22	T 20
F 21	5 57 59	29°14'03	23°57	10°45	27°39	2°53	26°56	20° 5	9°54	14°42	24°16	22°R53	24°13	0°31	7°26	F 21
S 22	6 1 56	0 <b>궁</b> 15'12	6 <b>₽</b> 56	12° 9	27°48	3° 2	27°10	20°12	9°57	14°44	24°15	22°53	24°10	0°37	7°30	S 22
S 23	6 5 52	1°16'22	19°34	13°35	28° 0	3°11	27°24	20°19	10° 0	14°47	24°14	22°51	24° 6	0°44	7°34	S 23
M24	6 9 49	2°17'33	1 <b>M</b> 57	15° 1	28°13	3°19	27°37	20°26	10° 3	14°49	24°13	22°47	24° 3	0°51	7°38	M24
T 25	6 13 46	3°18'44	14° 8	16°27	28°29	3°27	27°51	20°33	10° 6	14°51	24°11	22°41	24° 0	0°58	7°42	T 25
W26	6 17 42	4°19'55	26°11	17°55	28°46	3°34	28° 5	20°40	10° 9	14°53	24°10	22°32	23°57	1° 4	7°46	W26
T 27	6 21 39	5°21'07	8 <b>∡</b> 7 7	19°23	29° 6	3°40	28°19	20°47	10°12	14°56	24° 9	22°23	23°54	1°11	7°50	T 27
F 28	6 25 35	6°22'18	20° 0	20°51	29°28	3°46	28°33	20°54	10°15	14°58	24° 8	22°13	23°51	1°18	7°54	F 28
S 29	6 29 32	7°23'30	1පි50	22°20	29°51	3°51	28°46	21° 1	10°18	15° 0	24° 7	22° 4	23°47	1°24	7°58	S 29
S 30	6 33 28	8°24'43	13°40	23°50	0 <b>₹</b> 16	3°55	29° 0	21° 8	10°21	15° 2	24° 6	21°57	23°44	1°31	8° 2	S 30
M31	6 37 25	9 <b>ප්</b> 25'54	25 <b>궁</b> 32	25 <b>₹</b> 20	0 <b>∡</b> 743	3 <b>m</b> 59	29 <b>х</b> 14	21 <b>×</b> 15	10≈24	15중 5	24∏ 4	21 <b>£</b> 51	23 <b>Ω</b> 41	1 <b>云</b> 38	8 <b>≈</b> 7	M31

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	decl	decl lat	dec	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21 s49	18 s54 4n	n24 15 s35	2n4	21 s10	0 s24	14n32	2n26	23 s 2	0n14	21 s42	1n13	18 s39	0s39	22 s 4	0n41	16n48	6s35	13n25	13n 7	19s 9	12 s23	6n34
S 2	21 58	19 35 3	49 15 35	2 42	20 48	0 9	14 26	2 27	23 2	0 14	21 43	1 13	18 38	0 39	22 3	0 41	16 48	6 35	13 29	13 8	19 10	12 22	6 34
M 3	22 7		4 15 38				14 21	2 29			21 44		18 37			0 41	16 48				19 10		
T 4	22 16	-	10 15 40				14 16				21 44		18 37			0 41	16 48				19 11		6 33
W 5	22 23		11 15 50				14 12	2 33			21 45		18 36			0 41	16 48				19 11		6 32
T 6	_	13 56 0			19 24	0 51		2 35			21 46		18 36			0 41	16 48				19 12		6 32
F 7	22 38	-	s57 16 24		_		14 3	2 36			21 46		18 35			0 41	16 47				19 12		
S 8	22 45	6 54 2	1 16 4	2 23	18 46	1 19	13 58	2 38	23 7	0 13	21 47	1 12	18 34	0 39	22 2	0 41	16 47	6 33	13 33	13 15	19 13	12 20	6 31
S 9	22 51	2 40 3	1 17 (	2 20	18 28	1 33	13 54	2 40	23 8	0 13	21 48	1 12	18 34	0 39	22 2	0 41	16 47	6 35	13 36	13 16	19 14	12 19	6 31
M10	22 56	1n49 3	53 17 20	2 14	18 11		13 50	2 42			21 48	1 12				0 41	16 47				19 14		6 31
T 11	23 2		33 17 40				13 47	2 44			21 49		18 32			0 41	16 47				19 15		6 30
W12	23 7	10 45 4	58 18 2				13 43		23 10		21 50		18 32			0 41	16 47				19 15		6 30
T 13	-	14 35 5	3 18 24		17 25		13 40		23 10		21 50	1 12				0 41	16 47				19 16		
			48 18 40		17 12		13 36		23 11		21 51	1 12				0 41	16 47				19 16		
S 15	23 18	19 16 4	12 19 8	1 38	17 0	2 44	13 33	2 52	23 12	0 13	21 52	1 12	18 29	0 39	22 1	0 41	16 47	6 35	13 50	13 22	19 17	12 16	6 29
S 16	23 21	19 36 3	17 19 30	1 30	16 49	2 54	13 30	2 54	23 12	0 13	21 52	1 12	18 29	0 39	22 1	0 41	16 47	6 35	13 53	13 23	19 17	12 15	6 29
M17	23 24	18 31 2	10 19 52	1 23	16 39	3 3	13 28	2 56	23 13	0 13	21 53	1 12	18 28	0 39	22 0	0 41	16 47	6 35	13 54	13 24	19 18	12 15	6 28
T 18	23 26	16 12 0	55 20 14	1 1 15	16 30	3 12	13 25	2 58	23 13	0 12	21 53	1 12	18 27	0 39	22 0	0 41	16 47	6 34	13 55	13 25	19 18	12 14	6 28
W19	23 27	12 56 On	121 20 35	1 7	16 23	3 20	13 23	3 0	23 14	0 12	21 54	1 12	18 26	0 38	22 0	0 41	16 47				19 19		
T 20	23 28		34 20 55		16 16	3 28	13 21		23 14		21 55	1 12	18 26	0 38	22 0						19 19		
F 21	23 29		39 21 15				13 19		23 15		21 55		18 25			0 41	16 47				19 20		
S 22	23 29	0 31 3	34 21 35	0 43	16 5	3 43	13 18	3 6	23 15	0 12	21 56	1 12	18 24	0 38	21 59	0 41	16 47	6 34	13 55	13 29	19 20	12 11	6 27
S 23	23 28	3 s42 4	17 21 53	0 35	16 2	3 49	13 17	3 8	23 15	0 12	21 56	1 12	18 23	0 38	21 59	0 41	16 47	6 34	13 55	13 31	19 21	12 11	6 27
M24	23 28	7 41 4	47 22 1	0 27	15 59	3 55	13 16	3 10	23 16	0 12	21 57	1 12	18 23	0 38	21 59	0 41	16 47	6 34	13 57	13 32	19 21	12 10	6 26
T 25	23 26	11 16 5	4 22 28	0 20	15 57	4 0	13 15	3 13	23 16	0 12	21 57	1 12	18 22	0 38	21 59	0 41	16 48	6 34	13 59	13 33	19 22	12 9	6 26
W26	23 25	14 22 5	6 22 44	0 12	15 56	4 5	13 14	3 15	23 16	0 12	21 58	1 11	18 21	0 38	21 58	0 41	16 48	6 34	14 1	13 34	19 22	12 8	6 26
T 27	23 22	16 50 4	56 22 59	0 5	15 55	4 10	13 14	3 17	23 17	0 12	21 58	1 11	18 20	0 38	21 58	0 41	16 48	6 34	14 5	13 35	19 23	12 8	6 26
1	23 20		32 23 13		15 56		13 14		23 17		21 59		18 19		21 58		16 48	6 34			19 23		6 25
S 29	23 16	19 31 3	57 23 20	0 10	15 57	4 18	13 14	3 21	23 17	0 11	21 59	1 11	18 18	0 38	21 58	0 41	16 48	6 34	14 11	13 37	19 24	12 6	6 25
S 30	23 13		12 23 37	0 17	15 59	4 21	13 15	3 23	23 17	0 11	22 0	1 11	18 18	0 38	21 58	0 41	16 48	6 34	14 13	13 38	19 24	12 5	6 25
M31	23 s 9	18 s49 2n	n18 23 s48	0 s 2 4	16s 1	4n25	13n15	3n26	23 s17	0n11	22 s 0	1n11	18 s 17	0s38	21 s57	0n41	16n48	6s34	14n15	13n39	19 s 2 5	12s 4	6n25

Julian Day Number = 2328792.5, Delta T = 33.73 sec Ecliptic obliquity =  $23^{\circ}28'51$ , Nutation = - $0^{\circ}00'11$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}02'57$ , Lahiri =  $19^{\circ}09'57$ Greg. Calendar