

# Astrodienst Ephemeris Tables for the year 1690

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 1690 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)ţ(	¥	В	R	Ω	Ç	ķ	Day
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S 1	6 44 8	11궁 8'58	24 m 50	24×738	14 <b>×</b> 757	1817	0 <b></b> ₩52	16M20	23°R27	10 <b>¥</b> 50	25°R40	0°R11 0 <b>Υ</b> 11	0 <b>Υ</b> 44	9,734	29°R37	S 1
M 2	6 48 5	12°10'08	7 <u>₽</u> 28	26° 7	16°12	1°40 2° 3	1° 4	16°25	23826	10°51	25939	0°11	0°41	9°41	29835	M 2
T 3	6 52 1	13°11'18	19°46	27°35	17°27	_	1°16	16°30	23°24	10°53 10°54	25°37		0°37	9°48	29°33	T 3
W 4	6 55 58	14°12'28	1 <b>M</b> .50	29° 5	18°42	2°26	1°28	16°35	23°23		25°36	0°10 0° 6	0°34	9°54	29°31	W 4
T 5	6 59 54	15°13'38	13°44	0중34	19°56	2°50	1°40	16°40	23°22	10°56	25°35		0°31	10° 1	29°28	T 5
F 6	7 3 51	16°14'48	25°34	2° 5	21°11	3°14	1°52	16°45	23°20	10°57	25°33	29 <b>米</b> 59	0°28	10° 8	29°26	F 6 S 7
S 7	7 7 48	17°15'58	7 <b>₹</b> 24	3°36	22°26	3°38	2° 5	16°49	23°19	10°59	25°32	29°51	0°25	10°14	29°24	S 7
S 8	7 11 44	18°17'08	19°16	5° 7	23°41	4° 2	2°17	16°54	23°18	11° 0	25°31	29°39	0°21	10°21	29°22	S 8
M 9	7 15 41	19°18'17	1 <b>ਰ</b> 14	6°39	24°56	4°27	2°30	16°59	23°17	11° 2	25°29	29°26	0°18	10°28	29°20	M 9
T 10	7 19 37	20°19'26	13°18	8°11	26°11	4°52	2°42	17° 3	23°16	11° 3	25°28	29°12	0°15	10°35	29°19	T 10
W11	7 23 34	21°20'35	25°31	9°44	27°25	5°18	2°55	17° 7	23°15	11° 5	25°27	28°59	0°12	10°41	29°17	W11
T 12	7 27 30	22°21'43	7≈52	11°17	28°40	5°44	3° 7	17°12	23°14	11° 6	25°25	28°47	0° 9	10°48	29°15	T 12
F 13	7 31 27	23°22'50	20°22	12°51	29°55	6°10	3°20	17°16	23°13	11° 8	25°24	28°39	0° 6	10°55	29°13	F 13
S 14	7 35 24	24°23'57	3 <b>∺</b> 2	14°25	1 <b>궁</b> 10	6°36	3°33	17°20	23°12	11°10	25°23	28°33	0° 2	11° 1	29°12	S 14
S 15	7 39 20	25°25'03	15°53	16° 0	2°25	7° 2	3°46	17°24	23°11	11°12	25°21	28°30	29 <b>米</b> 59	11° 8	29°10	S 15
M16	7 43 17	26°26'08	28°57	17°36	3°40	7°29	3°59	17°28	23°10	11°13	25°20	28°D29	29°56	11°15	29° 9	M16
T 17	7 47 13	27°27'12	12Υ16	19°12	4°55	7°56	4°12	17°32	23°10	11°15	25°19	28°30	29°53	11°22	29° 8	T 17
W18	7 51 10	28°28'15	25°52	20°49	6°10	8°23	4°25	17°36	23° 9	11°17	25°17	28°R30	29°50	11°28	29° 6	W18
T 19	7 55 6	29°29'17	9 <b>8</b> 47	22°26	7°25	8°51	4°38	17°40	23° 8	11°19	25°16	28°30	29°47	11°35	29° 5	T 19
F 20	7 59 3	0≈30'18	24° 0	24° 4	8°39	9°19	4°51	17°43	23° 8	11°20	25°15	28°27	29°43	11°42	29° 4	F 20
S 21	8 2 59	1°31'18	8 <b>Ⅲ</b> 31	25°42	9°54	9°47	5° 4	17°47	23° 7	11°22	25°13	28°23	29°40	11°48	29° 3	S 21
S 22	8 6 56	2°32'16	23°15	27°21	11° 9	10°15	5°18	17°50	23° 7	11°24	25°12	28°16	29°37	11°55	29° 2	S 22
M23	8 10 53	3°33'14	895 6	29° 1	12°24	10°43	5°31	17°54	23° 7	11°26	25°11	28° 7	29°34	12° 2	29° 1	M23
T 24	8 14 49	4°34'11	22°57	0≈41	13°39	11°12	5°45	17°57	23° 6	11°28	25° 9	27°58	29°31	12° 9	29° 0	T 24
W25	8 18 46	5°35'06	7 <b>Ω</b> 38	2°22	14°54	11°41	5°58	18° 0	23° 6	11°30	25° 8	27°50	29°27	12°15	28°59	W25
T 26	8 22 42	6°36'00	22° 1	4° 4	16° 9	12° 9	6°12	18° 3	23° 6	11°32	25° 7	27°43	29°24	12°22	28°58	T 26
F 27	8 26 39	7°36'54	6m) 1	5°46	17°24	12°39	6°25	18° 6	23° 5	11°34	25° 6	27°39	29°21	12°29	28°58	F 27
S 28	8 30 35	8°37'46	19°35	7°30	18°39	13° 8	6°39	18° 9	23° 5	11°36	25° 4	27°37	29°18	12°35	28°57	S 28
S 29	8 34 32	9°38'38	2 <u>₽</u> 43	9°13	19°54	13°37	6°53	18°12	23° 5	11°38	25° 3	27°D36	29°15	12°42	28°57	S 29
M30	8 34 32	10°39'28	15°27	10°58	21° 8	13°37 14° 7	7° 6	18°12	23°D 5	11°38	25° 2	27°38	29°13	12°42 12°49	28°56	M30
T 31	8 42 25	10 39 28 11 <b>≈</b> 40'18	27 <b>Ω</b> 51	10 38 12 <b>≈</b> 43	22 <b>日</b> 23	14837	7 <b>∺</b> 20	18 13 18 ML 17	23 D 3 23 B 5	11 <del>1</del> 40	259 0	27 <b>X</b> 39	29 H 8	12 49 12 <b>×</b> 756	28 <b>8</b> 56	T 31
1 31	0 42 23	11~~4010	2/==31	12~~+3	22023	1405/	//(20	101161/	230 3	11/(42	0 حدد ۲	211139	23/ O	147 30	20000	1 11

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S 1 M 2	23 s 1 22 55		n28 23 s28 s38 23 38	0s 5 21s39 0 13 21 50	0n59 13n 1		12s10 1s 3 12 5 1 3		18n27 0s14 18 26 0 14				26 s 40 26 41	
T 3 W 4	22 50 22 43	14 37 2	42 23 47 39 23 56		0 54 13 2 0 52 13 2	1 13	11 57 1 3	14 41 2 14	18 26 0 14 18 26 0 14	8 24 0 59	23 54 2 54	0 4 0 1	26 43 26 44	15 51 4 20
T 5 F 6 S 7	22 30	23 13 4	29 24 3 9 24 8 38 24 13	0 40 22 25	0 49 13 3 0 46 13 4 0 44 13 5	1 14	11 48 1 2	14 44 2 14	18 25 0 14 18 25 0 14 18 25 0 14	8 23 0 59	23 55 2 54	0 s 0 0 1	2 26 46 1 26 47 2 26 48	15 50 4 20
S 8 M 9	22 14 22 5	27 58 4 28 29 5	56 24 16 1 24 18	0 53 22 39 0 59 22 44	0 41 14 0 39 14 1	1 16	11 39 1 2 11 34 1 2	14 46 2 14 14 47 2 15	18 25 0 14 18 24 0 14	8 22 0 59 8 22 0 59	23 55 2 54 23 56 2 54	0 8 0 0 14 0	26 49 26 51	15 50 4 19 15 50 4 19
T 10 W11 T 12	21 47 21 37	25 30 4 22 7 3	52 24 19 30 24 18 55 24 16	1 11 22 54 1 16 22 58	0 33 14 3 0 31 14 4	1 18	11 25 1 2 11 20 1 2	14 49 2 15 14 50 2 15		8 20 0 59 8 20 0 59	23 56 2 54 23 57 2 54	0 24 0 0 29 0	26 52 5 26 53 26 55	15 49 4 19 15 49 4 19
F 13 S 14 S 15			8 24 13 11 24 8 7 24 2	1 26 23 3	0 28 14 5 0 25 15 0 23 15	1 20	11 11 1 2	14 52 2 15	18 23 0 14 18 23 0 14 18 23 0 14	8 18 0 59	23 57 2 54	0 35 0	2 26 56 1 26 57 2 26 58	15 49 4 18
M16 T 17	20 54 20 42	0 23 Or 5n59 1	n 3 23 54 13 23 45	1 36 23 6 1 40 23 6	0 20 15 1 0 17 15 2	1 21 1	11 2 1 2 10 57 1 2	14 54 2 16 14 55 2 16	18 23 0 14 18 23 0 14	8 17 0 59 8 16 0 59	23 58 2 54 23 58 2 55	0 36 0 1 0 36 0	2 27 0 3 27 1	15 48 4 18 15 48 4 18
W18 T 19 F 20	20 18	17 57 3	21 23 34 22 23 22 12 23 9	1 47 23 5	0 15 15 3 0 12 15 4 0 9 15 5	1 23	10 47 1 2 10 42 1 2	14 57 2 16	18 23 0 14 18 22 0 13 18 22 0 13	8 15 0 59	23 59 2 55	0 36 0	1 27 2 5 27 3 7 27 5	15 48 4 18
S 21 S 22			47 22 54 4 22 37		0 7 16 0 4 16 1				18 22 0 13 18 22 0 13					15 48 4 17 15 48 4 17
M23 T 24		26 4 4	37 22 0	2 0 22 48	0s 1 16 3	1 26	10 22 1 1	15 1 2 17	18 22 0 13 18 22 0 13	8 11 0 59	24 0 2 55	0 49 0 1		15 48 4 17
W25 T 26 F 27	18 54 18 39 18 24	17 1 2	55 21 39 59 21 16 53 20 52	2 3 22 37	0 7 16 5	1 26	10 12 1 1	15 2 2 18	18 22 0 13 18 22 0 13 18 22 0 13	8 10 0 59	24 1 2 55	0 54 0 1	3 27 11 4 27 12 5 27 13	15 48 4 16
S 28 S 29	18 8 17 52	4 47 0	43 20 26 s28 19 59	2 4 22 23	0 12 17 1	1 27	10 2 1 1	15 3 2 18	18 22 0 13 18 22 0 13	8 8 0 59	24 2 2 55	0 57 0 1	7 27 14 3 27 15	15 48 4 16
M30 T 31	17 36	7 33 1	35 19 30 s36 18s59	2 4 22 6	0 17 17 3	1 28	9 52 1 1	15 5 2 18	18 22 0 13 18n22 0 s13	8 7 0 59	24 2 2 55	0 57 0 1	27 16 27 s17	15 48 4 15

 $\label{eq:Julian Day Number = 2338320.5, Delta T = 18.42 sec} \\ Ecliptic obliquity = 23°28'55, Nutation = 0°00'00, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°24'47, Lahiri = 19°31'47Greg. Calendar$ 

#### FEBRUARY 1690 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	并	В	S.	v	Ç	ę,	Day
W 1	8 46 22	12≈41'07	9 <b>M</b> 59	14≈29	23중38	15 <b>8</b> 7	7 <b>) (</b> 34	18 <b>M</b> 20	23 <b>8</b> 5	11 <b>) (</b> 44	24°R59	27°R40	29 <b>米</b> 5	13 <b>×</b> 2	28°R55	W 1
T 2	8 50 18	13°41'55	21°56	16°16	24°53	15°37	7°48	18°22	23° 5	11°46	24958	27 <b>)</b> 39	29° 2	13° 9	28 <b>8</b> 55	T 2
F 3	8 54 15	14°42'42	3 <b>∡</b> 748	18° 3	26° 8	16° 7	8° 2	18°25	23° 6	11°48	24°57	27°37	28°59	13°16	28°55	F 3
S 4	8 58 11	15°43'27	15°39	19°51	27°23	16°38	8°16	18°27	23° 6	11°50	24°55	27°33	28°56	13°23	28°D55	S 4
S 5	9 2 8	16°44'12	27°33	21°40	28°38	17° 8	8°30	18°29	23° 6	11°52	24°54	27°27	28°53	13°29	28°55	S 5
M 6	9 6 4	17°44'56	9 <b>궁</b> 35	23°29	29°53	17°39	8°44	18°31	23° 6	11°54	24°53	27°20	28°49	13°36	28°55	M 6
T 7	9 10 1	18°45'38	21°46	25°18	1≈ 8	18°10	8°58	18°33	23° 7	11°56	24°52	27°13	28°46	13°43	28°55	T 7
W 8	9 13 57	19°46'20	4≈ 9	27° 8	2°23	18°41	9°12	18°35	23° 7	11°58	24°50	27° 6	28°43	13°49	28°55	W 8
T 9	9 17 54	20°46'59	16°45	28°58	3°38	19°12	9°26	18°37	23° 8	12° 1	24°49	27° 0	28°40	13°56	28°56	T 9
F 10	9 21 51	21°47'38	29°34	0 <b>)</b> 48	4°53	19°44	9°40	18°38	23° 8	12° 3	24°48	26°55	28°37	14° 3	28°56	F 10
S 11	9 25 47	22°48'14	12 <b>)</b> 35	2°38	6° 7	20°15	9°54	18°40	23° 9	12° 5	24°47	26°52	28°33	14°10	28°57	S 11
S 12	9 29 44	23°48'49	25°48	4°28	7°22	20°47	10° 9	18°41	23° 9	12° 7	24°46	26°D51	28°30	14°16	28°57	S 12
M13	9 33 40	24°49'23	9 <b>Υ</b> 12	6°17	8°37	21°18	10°23	18°43	23°10	12° 9	24°45	26°52	28°27	14°23	28°58	M13
T 14	9 37 37	25°49'54	22°48	8° 5	9°52	21°50	10°37	18°44	23°11	12°11	24°44	26°53	28°24	14°30	28°58	T 14
W15	9 41 33	26°50'24	6 <b>8</b> 35	9°52	11° 7	22°22	10°52	18°45	23°12	12°14	24°42	26°55	28°21	14°36	28°59	W15
T 16	9 45 30	27°50'52	20°33	11°38	12°22	22°54	11° 6	18°46	23°13	12°16	24°41	26°56	28°18	14°43	29° 0	T 16
F 17	9 49 26	28°51'18	4∏40	13°22	13°37	23°26	11°20	18°47	23°14	12°18	24°40	26°R56	28°14	14°50	29° 1	F 17
S 18	9 53 23	29°51'42	18°55	15° 3	14°51	23°59	11°35	18°48	23°14	12°20	24°39	26°55	28°11	14°57	29° 2	S 18
S 19	9 57 20	0 <b>¥</b> 52'05	39517	16°41	16° 6	24°31	11°49	18°49	23°15	12°23	24°38	26°52	28° 8	15° 3	29° 3	S 19
M20	10 116	1°52'25	17°40	18°16	17°21	25° 4	12° 3	18°49	23°17	12°25	24°37	26°49	28° 5	15°10	29° 4	M20
T 21	10 5 13	2°52'43	2 <b>Ω</b> 1	19°47	18°36	25°36	12°18	18°50	23°18	12°27	24°36	26°45	28° 2	15°17	29° 5	T 21
W22	10 9 9	3°52'59	16°14	21°13	19°51	26° 9	12°32	18°50	23°19	12°29	24°35	26°42	27°59	15°23	29° 6	W22
T 23	10 13 6	4°53'14	0 <b>m</b> 14	22°34	21° 6	26°42	12°47	18°51	23°20	12°32	24°34	26°39	27°55	15°30	29° 8	T 23
F 24	10 17 2	5°53'26	13°58	23°50	22°20	27°15	13° 1	18°51	23°21	12°34	24°33	26°38	27°52	15°37	29° 9	F 24
S 25	10 20 59	6°53'37	27°22	24°58	23°35	27°48	13°16	18°51	23°23	12°36	24°32	26°D37	27°49	15°44	29°11	S 25
S 26	10 24 55	7°53'46	10 <b>≏</b> 26	26° 0	24°50	28°21	13°30	18°R51	23°24	12°38	24°31	26°38	27°46	15°50	29°12	S 26
M27	10 28 52	8°53'53	23° 9	26°54	26° 5	28°54	13°45	18°51	23°25	12°41	24°30	26°39	27°43	15°57	29°14	M27
T 28	10 32 49	9 <b>米</b> 53'59	5 <b>M</b> .35	27 <b>)</b> 40	27≈19	29 <b>8</b> 27	13 <b>米</b> 59	18 <b>M</b> .51	23 <b>8</b> 27	12 <b>)</b> 43	249529	26 <b>)</b> (41	27 <b>)</b> 39	16 <b>√</b> 4	29 <b>8</b> 15	T 28

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W 1	17s 2	18 s 8	3 s29	18s27	2s 2	21 s46	0 s22	17n49	1n29	9s41	1 s 1	15s 6	2n19	18n22	0s13	8s 5	0 s59	24n 3	2n55	0 s56	0 s22	27s19	15n48	4 s 1 5
T 2	16 45	22 19	4 11	17 54	2 0	21 35	0 24	17 58	1 29	9 36	1 1	15 6	2 19	18 22	0 13	8 4	0 59	24 3	2 55	0 56	0 23	27 20	15 48	4 15
F 3	16 27	25 35	4 43	17 19	1 58	21 24	0 27	18 7	1 29	9 31	1 1	15 6	2 19	18 22	0 13	8 4	0 59	24 3	2 55	0 57	0 24	27 21	15 49	4 15
S 4	16 9	27 43	5 2	16 42	1 55	21 12	0 29	18 16	1 30	9 26	1 1	15 7	2 19	18 22	0 13	8 3	0 59	24 4	2 56	0 58	0 26	27 22	15 49	4 14
S 5	15 51	28 37	5 9	16 4	1 51	20 59	0 31	18 25	1 30	9 20	1 1	15 7	2 20	18 22	0 13	8 2	0 59	24 4	2 56	1 1	0 27	27 23	15 49	4 14
M 6	15 32	28 9	5 2	15 24	1 47	20 46	0 34	18 34	1 30	9 15	1 1	15 8	2 20	18 22	0 13	8 1	0 59	24 4	2 56	1 4	0 28	27 24	15 49	4 14
T 7	15 14	26 21	4 41	14 43	1 43	20 32	0 36	18 43	1 30	9 10	1 1	15 8	2 20	18 22	0 13	8 0	0 59	24 4	2 56	1 7	0 29	27 25	15 49	4 14
W 8	14 55	23 15	4 7	14 1	1 37	20 17	0 38	18 52	1 31	9 5	1 1	15 8	2 20	18 22	0 13	8 0	0 59	24 5	2 56	1 9	0 31	27 26	15 50	4 14
T 9	14 36	19 2	3 21	13 17	1 32	20 2	0 41	19 1	1 31	8 59	1 1	15 9	2 21	18 23	0 13	7 59	0 59	24 5	2 56	1 12	0 32	27 27	15 50	4 13
F 10	14 16	13 53	2 23	12 32	1 25	19 46	0 43	19 10	1 31	8 54	1 1	15 9	2 21	18 23	0 13	7 58	0 59	24 5	2 56	1 14	0 33	27 28	15 50	4 13
S 11	13 56	8 2	1 17	11 46	1 18	19 30	0 45	19 19	1 31	8 48	1 1	15 9	2 21	18 23	0 13	7 57	0 59	24 5	2 56	1 15	0 34	27 29	15 51	4 13
S 12	13 36	1 46	0 6	10 59	1 10	19 13	0 47	19 27	1 32	8 43	1 1	15 9	2 21	18 23	0 13	7 56	0 59	24 6	2 56	1 15	0 36	27 30	15 51	4 13
M13	13 16	4n41	1n 7	10 11	1 2	18 56	0 49	19 36	1 32	8 38	1 1	15 9	2 21	18 23	0 13	7 55	0 59	24 6	2 56	1 15	0 37	27 31	15 51	4 13
T 14	12 56	11 0	2 17	9 22	0 52	18 38	0 51	19 44	1 32	8 32	1 1	15 10	2 22	18 24	0 13	7 55	0 59	24 6	2 56	1 14	0 38	27 32	15 52	4 12
W15	12 35	16 53	3 20	8 32	0 43	18 19	0 53	19 53	1 32	8 27	1 1	15 10	2 22	18 24	0 13	7 54	0 59	24 6	2 56	1 14	0 40	27 33	15 52	4 12
T 16	12 15	21 58	4 12	7 42	0 32	18 0	0 55	20 1	1 32	8 21	1 1	15 10	2 22	18 24	0 13	7 53	0 59	24 7	2 56	1 13	0 41	27 34	15 52	4 12
F 17	11 54	25 52	4 50	6 52	0 21	17 41	0 57	20 10	1 33	8 16		15 10	2 22	18 24	0 13	7 52	0 59	24 7	2 56	1 13	0 42	27 35	15 53	4 12
S 18	11 32	28 10	5 10	6 2	0 9	17 20	0 59	20 18	1 33	8 10	1 1	15 10	2 22	18 25	0 13	7 51	0 59	24 7	2 56	1 14	0 43	27 36	15 53	4 12
S 19	11 11	28 38	5 11	5 13	0n 3	17 0	1 0	20 26	1 33	8 5	1 1	15 10	2 23	18 25	0 13	7 50	0 59	24 7	2 56	1 15	0 45	27 37	15 53	4 11
M20	10 50	27 9	4 53	4 24	0 16	16 39	1 2	20 34	1 33	7 59	1 1	15 10	2 23	18 25	0 13	7 49	0 59	24 7	2 56	1 16	0 46	27 38	15 54	4 11
T 21	10 28	23 54	4 16	3 36	0 30	16 17	1 4	20 42	1 33	7 54	1 1	15 10	2 23	18 25	0 13	7 49	0 59	24 8	2 56	1 18	0 47	27 39	15 54	4 11
W22	10 6	19 15	3 24	2 49	0 43	15 55	1 5	20 50	1 33	7 48	1 1	15 10	2 23	18 26	0 13	7 48	0 59	24 8	2 56	1 19	0 48	27 40	15 55	4 11
T 23	9 44	13 36	2 20	2 4	0 58	15 33	1 7	20 58	1 33	7 43	1 1	15 9	2 23	18 26	0 13	7 47	0 59	24 8	2 56	1 20	0 50	27 41	15 55	4 10
F 24	9 22	7 23	1 9	1 21	1 12	15 10	1 9	21 6	1 34	7 37	1 1	15 9	2 24	18 26	0 13	7 46	0 59	24 8	2 56	1 20	0 51	27 42	15 56	4 10
S 25	9 0	0 59	0s 4	0 41	1 26	14 47	1 10	21 13	1 34	7 32	1 1	15 9	2 24	18 27	0 13	7 45	0 59	24 8	2 56	1 21		27 43		4 10
S 26	8 37	5 s 1 7	1 15	0 3	1 41	14 23	1 11	21 21	1 34	7 26	1 1	15 9	2 24	18 27	0 13	7 44	0 59	24 9	2 56	1 20	0 53	27 44	15 57	4 10
M27	8 15	11 12	2 21	0n32	1 55	13 59	1 13	21 28	1 34	7 21	1 1	15 9	2 24	18 27	0 13	7 43	0 59	24 9	2 56	1 20	0 55	27 45	15 57	4 10
T 28	7 s52	16 s32	3 s 1 9	1n 3	2n 9	$13\mathrm{s}35$	1 s14	21n36	1n34	7s15	1 s 1	15 s 8	2n25	18n28	0s13	7 s43	0 s59	24n 9	2n56	1 s19	0 s 5 6	27 s46	15n58	4s 9

Julian Day Number = 2338351.5, Delta T = 18.37 sec

Ecliptic obliquity = 23°28'56, Nutation = 0°00'02, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°24'51, Lahiri = 19°31'52Greg. Calendar

MARCH 1690 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	ð	4	ħ	)ţ(	并	В	R	Ω	Ç	ķ	Day
W 1	10 36 45	10 <b>米</b> 54'03	17 <b>M</b> .46	28 <b>)</b> 18	28≈34	0П 0	14 <b>)</b> 14	18°R50	23828	12 <b>) (</b> 45	24°R29	26 <b>) (</b> 42	27 <b>)</b> (36	16 <b>×</b> 711	29817	W 1
T 2	10 40 42	11°54'06	29°46	28°47	29°49	0°34	14°28	18ML50	23°30	12°47	249528	26°43	27°33	16°17	29°19	T 2
F 3	10 44 38	12°54'07	11 <b>√</b> 41	29° 7	1 <b>)</b> 4	1° 7	14°43	18°50	23°32	12°50	24°27	26°R43	27°30	16°24	29°21	F 3
S 4	10 48 35	13°54'06	23°33	29°18	2°18	1°40	14°57	18°49	23°33	12°52	24°26	26°43	27°27	16°31	29°23	S 4
S 5	10 52 31	14°54'04	5 <b>る</b> 29	29°R20	3°33	2°14	15°12	18°48	23°35	12°54	24°25	26°42	27°24	16°37	29°25	S 5
M 6	10 56 28	15°54'00	17°32	29°14	4°48	2°48	15°26	18°48	23°37	12°57	24°25	26°41	27°20	16°44	29°27	M 6
T 7	11 0 24	16°53'54	29°47	28°58	6° 3	3°21	15°41	18°47	23°38	12°59	24°24	26°40	27°17	16°51	29°29	T 7
W 8	11 421	17°53'46	12≈17	28°35	7°17	3°55	15°55	18°46	23°40	13° 1	24°23	26°38	27°14	16°58	29°31	W 8
T 9	11 8 18	18°53'37	25° 4	28° 4	8°32	4°29	16°10	18°45	23°42	13° 3	24°22	26°37	27°11	17° 4	29°33	T 9
F 10	11 12 14	19°53'25	8 <b>)</b> 8	27°26	9°47	5° 3	16°25	18°43	23°44	13° 6	24°22	26°37	27° 8	17°11	29°36	F 10
S 11	11 16 11	20°53'12	21°30	26°43	11° 1	5°37	16°39	18°42	23°46	13° 8	24°21	26°D36	27° 4	17°18	29°38	S 11
S 12	11 20 7	21°52'57	5 <b>Υ</b> 8	25°55	12°16	6°11	16°54	18°41	23°48	13°10	24°20	26°36	27° 1	17°24	29°41	S 12
M13	11 24 4	22°52'39	19° 0	25° 4	13°31	6°45	17° 8	18°39	23°50	13°12	24°20	26°37	26°58	17°31	29°43	M13
T 14	11 28 0	23°52'20	3 <b>8</b> 3	24°10	14°45	7°20	17°23	18°38	23°52	13°15	24°19	26°37	26°55	17°38	29°46	T 14
W15	11 31 57	24°51'58	17°14	23°15	16° 0	7°54	17°37	18°36	23°54	13°17	24°19	26°37	26°52	17°45	29°48	W15
T 16	11 35 53	25°51'34	1∏28	22°19	17°14	8°28	17°51	18°34	23°56	13°19	24°18	26°37	26°49	17°51	29°51	T 16
F 17	11 39 50	26°51'08	15°43	21°25	18°29	9° 3	18° 6	18°32	23°59	13°21	24°18	26°R37	26°45	17°58	29°54	F 17
S 18	11 43 46	27°50'40	29°56	20°34	19°44	9°37	18°20	18°30	24° 1	13°24	24°17	26°D37	26°42	18° 5	29°57	S 18
S 19	11 47 43	28°50'09	1499 5	19°45	20°58	10°11	18°35	18°28	24° 3	13°26	24°17	26°37	26°39	18°11	29°59	S 19
M20	11 51 40	29°49'36	28° 8	19° 0	22°13	10°46	18°49	18°26	24° 6	13°28	24°16	26°37	26°36	18°18	0 <b>I</b> I 2	M20
T 21	11 55 36	0 <b>Ƴ</b> 49'00	12 <b>N</b> 1	18°19	23°27	11°21	19° 4	18°24	24° 8	13°30	24°16	26°38	26°33	18°25	0° 5	T 21
W22	11 59 33	1°48'22	25°45	17°44	24°42	11°55	19°18	18°22	24°10	13°32	24°15	26°38	26°30	18°32	0° 8	W22
T 23	12 3 29	2°47'42	9 <b>™</b> 17	17°14	25°56	12°30	19°32	18°19	24°13	13°35	24°15	26°39	26°26	18°38	0°12	T 23
F 24	12 7 26	3°46'59	22°36	16°50	27°11	13° 5	19°47	18°17	24°15	13°37	24°15	26°R39	26°23	18°45	0°15	F 24
S 25	12 11 22	4°46'15	5 <b>≙</b> 40	16°31	28°25	13°39	20° 1	18°14	24°18	13°39	24°14	26°39	26°20	18°52	0°18	S 25
S 26	12 15 19	5°45'28	18°30	16°18	29°40	14°14	20°15	18°11	24°20	13°41	24°14	26°38	26°17	18°59	0°21	S 26
M27	12 19 15	6°44'40	1 <b>m</b> 5	16°11	0 <b>Υ</b> 54	14°49	20°29	18° 9	24°23	13°43	24°14	26°37	26°14	19° 5	0°25	M27
T 28	12 23 12	7°43'49	13°27	16°D10	2° 9	15°24	20°44	18° 6	24°26	13°45	24°14	26°36	26°10	19°12	0°28	T 28
W29	12 27 9	8°42'57	25°37	16°14	3°23	15°59	20°58	18° 3	24°28	13°47	24°13	26°34	26° 7	19°19	0°31	W29
T 30	12 31 5	9°42'02	7 <b>₹</b> 37	16°23	4°37	16°34	21°12	18° 0	24°31	13°50	24°13	26°32	26° 4	19°25	0°35	T 30
F 31	12 35 2	10 <b>Y</b> 41'06	19 <b>×</b> 32	16 <b>∺</b> 38	5 <b>℃</b> 52	17 <b>II</b> 9	21 <b>米</b> 26	17 <b>M</b> 57	24 <b>8</b> 34	13 <b>∺</b> 52	249613	26 <b>米</b> 31	26 <b>米</b> 1	19 <b>₹</b> 32	0Д38	F 31

Day	0	D	ğ	·	♂	4	ħ	)Å(	Ħ	Р	ß	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
W 1 T 2		21 s 6 4s 6 24 43 4 42	1n30 2n2 1 54 2 3		21n43 1n34 21 50 1 34	7s 9 1s 1 7 4 1 1		18n28 0s13 18 29 0 13			1 s19 1 18	0 s 57 27 s 4 0 59 27 4	
F 3	6 44	-			21 57 1 34	6 58 1 1		18 29 0 13			1 18	1 0 27 4	
S 4	6 21	28 35 5 16	-			6 53 1 1		18 29 0 13			1 18	1 1 27 4	
S 5	5 57	28 34 5 12	-	9 11 27 1 20		6 47 1 1	15 7 2 26		7 38 0 59	24 10 2 56	1 19	1 2 27 50	0 16 1 4 9
M 6	5 34			-	-	6 41 1 1					1 19		1 16 1 4 8
T 7	5 11					6 36 1 1					1 20	1 5 27 5	
W 8 T 9	-	-	2 39 3 3		-	6 30 1 1					1 20	1 6 27 5	
F 10		15 48 2 46 10 5 1 41	2 31 3 3 2 18 3 3		22 37 1 34 22 43 1 34	6 25 1 1 6 19 1 1		18 32 0 13 18 32 0 12		24 10 2 56 24 10 2 56	1 21 1 21	1 7 27 5 1 9 27 5	
S 11	3 37	3 49 0 28			22 50 1 34	6 13 1 1		18 33 0 12			1 21	1 10 27 5	
S 12	3 14	2n46 0n47			22 56 1 34	6 8 1 1		18 33 0 12			1 21	1 11 27 5	
M13	2 50	9 19 2 1			-	6 2 1 2					1 21	1 12 27 5	
T 14	-	15 30 3 9	0 00 0 2			5 56 1 2					1 21	1 14 27 5	
W15		20 55 4 5				5 51 1 2					1 21	1 15 27 5	
T 16 F 17	1 39 1 15		000	9 6 22 1 26 9 5 53 1 27		5 45 1 2 5 40 1 2					1 21 1 21	1 16 27 59 1 18 28	
S 18	0 52				23 24 1 34 23 29 1 34	5 40 1 2 5 34 1 2		18 36 0 12 18 37 0 12		24 11 2 56	1 21	-	0 16 9 4 6 1 16 10 4 6
			1 11 2 4				13 0 2 28	16 37 0 12	1 21 0 39	24 11 2 30	1 21	1 19 20	10 10 4 0
S 19		27 45 5 2	-		23 34 1 34	5 28 1 2		18 37 0 12			1 21		2 16 11 4 6
M20	-	24 59 4 30	-		23 39 1 34	5 23 1 2		18 38 0 12			1 21	-	2 16 11 4 6
T 21		20 47 3 43			23 44 1 34	5 17 1 2		18 38 0 12			1 21	-	3 16 12 4 6
W22		15 31 2 43			23 49 1 34	5 12 1 2		18 39 0 12			1 20	-	4 16 13 4 6
T 23	1 7	9 34 1 35				5 6 1 2					1 20		16 14 4 5
F 24 S 25	1 30 1 54	3 17 0 22 3s 1 0s50				5 1 1 2					1 20		5 16 14 4 5
	1 54	38 1 0830	4 21 1	3 1 57 1 26	24 2 1 34	4 55 1 2	14 54 2 29	18 41 0 12	/ 21 0 39	24 12 2 36	1 20	1 28 28	6 16 15 4 5
S 26	2 17	9 5 1 58		-	-	4 49 1 2					1 20	-	7 16 16 4 5
M27		14 40 2 59			-	4 44 1 2		-			1 21		7 16 17 4 5
T 28	-	1, 3. 3.	-		24 14 1 34	4 38 1 3		18 43 0 12			1 21	-	8 16 18 4 5
W29		23 35 4 31			24 18 1 34	4 33 1 3		18 44 0 12			1 22		9 16 18 4 5
T 30		26 32 4 59			24 21 1 34	4 27 1 3		18 44 0 12			1 23	-	9 16 19 4 4
F 31	4n14	28s16 5s13	5 s 3 9 0 s 2	4 1n 4 1s23	24n25 1n33	4 s 2 2 1 s 3	14 s48 2n30	18n45 0s12	7s17 1s 0	24n12 2n56	1 s23	1 s35 28 s1	0 16n20 4s 4

Julian Day Number = 2338379.5, Delta T = 18.34 sec Ecliptic obliquity = 23°28'56, Nutation =  $0^{\circ}00'01$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}24'55$ , Lahiri =  $19^{\circ}31'55$ Greg. Calendar

APRIL 1690 GC 00:00 UT

VI I/1	L 103	uc													00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	卉	В	S.	v	Ç	ķ	Day
S 1	12 38 58	11 <b>Y</b> 40'09	1 <b>ප</b> 25	16 <b>∺</b> 58	7 <b>Y</b> 6	17 <b>∏</b> 44	21 <b>)</b> 40	17°R54	24 <b>8</b> 36	13 <b>) (</b> 54	24°R13	26°R30	25 <b>∺</b> 58	19 <b>×</b> 39	0 <b>Ⅱ</b> 42	S 1
S 2	12 42 55	12°39'09	13°20	17°22	8°21	18°19	21°54	17 <b>M</b> 51	24°39	13°56	249513	26°D30	25°55	19°46	0°45	S 2
M 3	12 46 51	13°38'08	25°23	17°51	9°35	18°54	22° 8	17°47	24°42	13°58	24°13	26 <b>∺</b> 30	25°51	19°52	0°49	M 3
T 4	12 50 48	14°37'05	7≈37	18°24	10°49	19°29	22°22	17°44	24°45	14° 0	24°13	26°31	25°48	19°59	0°53	T 4
W 5	12 54 44	15°36'00	20° 8	19° 1	12° 4	20° 4	22°36	17°41	24°48	14° 2	24°12	26°32	25°45	20° 6	0°57	W 5
T 6	12 58 41	16°34'53	2 <b>∺</b> 58	19°43	13°18	20°40	22°50	17°37	24°51	14° 4	24°D12	26°34	25°42	20°13	1° 0	T 6
F 7	13 238	17°33'44	16°11	20°27	14°32	21°15	23° 4	17°34	24°54	14° 6	24°12	26°35	25°39	20°19	1° 4	F 7
S 8	13 6 34	18°32'33	29°47	21°15	15°47	21°50	23°18	17°30	24°56	14° 8	24°12	26°R35	25°36	20°26	1°8	S 8
S 9	13 10 31	19°31'21	13 <b>Y</b> 45	22° 7	17° 1	22°26	23°32	17°26	24°59	14°10	24°13	26°34	25°32	20°33	1°12	S 9
M10	13 14 27	20°30'07	28° 2	23° 2	18°15	23° 1	23°45	17°23	25° 2	14°12	24°13	26°32	25°29	20°39	1°16	M10
T 11	13 18 24	21°28'50	12834	23°59	19°29	23°36	23°59	17°19	25° 5	14°14	24°13	26°29	25°26	20°46	1°20	T 11
W12	13 22 20	22°27'32	27°13	25° 0	20°44	24°12	24°13	17°15	25° 9	14°16	24°13	26°26	25°23	20°53	1°24	W12
T 13	13 26 17	23°26'11	11 <b>II</b> 52	26° 3	21°58	24°47	24°26	17°11	25°12	14°17	24°13	26°22	25°20	21° 0	1°28	T 13
F 14	13 30 13	24°24'49	26°27	27° 9	23°12	25°23	24°40	17° 7	25°15	14°19	24°13	26°19	25°16	21° 6	1°32	F 14
S 15	13 34 10	25°23'24	10950	28°17	24°26	25°58	24°54	17° 3	25°18	14°21	24°13	26°17	25°13	21°13	1°36	S 15
S 16	13 38 7	26°21'57	24°59	29°28	25°40	26°34	25° 7	16°59	25°21	14°23	24°14	26°D16	25°10	21°20	1°41	S 16
M17	13 42 3	27°20'27	8 <b>N</b> 53	0 <b>Υ</b> 41	26°55	27°10	25°20	16°55	25°24	14°25	24°14	26°17	25° 7	21°26	1°45	M17
T 18	13 46 0	28°18'56	22°31	1°57	28° 9	27°45	25°34	16°51	25°27	14°27	24°14	26°18	25° 4	21°33	1°49	T 18
W19	13 49 56	29°17'22	5 <b>m</b> 53	3°15	29°23	28°21	25°47	16°47	25°31	14°28	24°15	26°20	25° 1	21°40	1°53	W19
T 20	13 53 53	0 <b>8</b> 15'46	19° 1	4°34	0 <b>8</b> 37	28°57	26° 0	16°43	25°34	14°30	24°15	26°21	24°57	21°47	1°58	T 20
F 21	13 57 49	1°14'07	1 <b>≏</b> 56	5°56	1°51	29°32	26°13	16°38	25°37	14°32	24°15	26°R21	24°54	21°53	2° 2	F 21
S 22	14 1 46	2°12'27	14°39	7°20	3° 5	05 8	26°27	16°34	25°40	14°33	24°16	26°19	24°51	22° 0	2° 6	S 22
S 23	14 5 42	3°10'45	27°11	8°46	4°19	0°44	26°40	16°30	25°44	14°35	24°16	26°16	24°48	22° 7	2°11	S 23
M24	14 9 39	4° 9'01	9 <b>M</b> .33	10°14	5°33	1°20	26°53	16°25	25°47	14°37	24°16	26°11	24°45	22°14	2°15	M24
T 25	14 13 36	5° 7'16	21°46	11°44	6°47	1°55	27° 6	16°21	25°50	14°38	24°17	26° 5	24°41	22°20	2°20	T 25
W26	14 17 32	6° 5'29	3 <b>∡</b> 750	13°15	8° 1	2°31	27°18	16°17	25°54	14°40	24°17	25°57	24°38	22°27	2°24	W26
T 27	14 21 29	7° 3'40	15°48	14°49	9°15	3° 7	27°31	16°12	25°57	14°41	24°18	25°50	24°35	22°34	2°29	T 27
F 28	14 25 25	8° 1'49	27°42	16°25	10°29	3°43	27°44	16° 8	26° 0	14°43	24°18	25°43	24°32	22°40	2°33	F 28
S 29	14 29 22	8°59'57	9 <b>궁</b> 34	18° 2	11°43	4°19	27°57	16° 3	26° 4	14°45	24°19	25°38	24°29	22°47	2°38	S 29
S 30	14 33 18	9858'04	21 <b>る</b> 28	19 <b>Y</b> 42	12 <b>8</b> 57	4955	28 <b>∺</b> 9	15 <b>M</b> .59	26 <b>8</b> 7	14 <b>) (</b> 46	249520	25 <b>)</b> 34	24 <b>)</b> (26	22 <b>×</b> 754	2 <b>Ⅱ</b> 42	S 30

Day	0	D	ğ	·	♂	4	ħ	)Å(	卉	Р	ß	v t	, k
	decl	decl lat	decl lat	decl lat dec	lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl lat
S 1	4n37	28 s43 5 s15	5 s43 0 s37	1 1n34 1 s22 24n2	3 1n33	4s16 1s 3	14 s47 2n30	18n46 0s12	7s16 1s 0	24n12 2n56	1 s24	1 s36 28 s11	16n21 4s 4
S 2		_, ., _				4 11 1 3		18 46 0 12		24 12 2 56	1 24	1 38 28 11	
M 3 T 4			5 45 1 1 5 42 1 12	2 34 1 21 24 3		4 5 1 3 4 0 1 3			7 14 1 0 7 13 1 0		1 24 1 23	1 39 28 12 1 40 28 12	16 23 4 4 16 24 4 4
W 5	6 9		-			3 54 1 3	_				1 23	1 40 28 12	
T 6	6 32		5 30 1 33			3 49 1 3					1 22	1 43 28 14	
F 7	6 54	6 20 0 57	5 21 1 42			3 44 1 3			7 11 1 0	24 12 2 56	1 22	1 44 28 14	16 26 4 4
S 8	7 17	0n11 0n18	5 10 1 50	5 3 1 16 24 4	1 33	3 38 1 4	14 40 2 31	18 51 0 12	7 10 1 0	24 12 2 56	1 22	1 45 28 15	16 27 4 3
S 9	7 39	6 52 1 33	4 57 1 58	5 33 1 14 <mark>24 4</mark>	1 32	3 33 1 4	14 39 2 31	18 51 0 12	7 10 1 0	24 12 2 56	1 22	1 47 28 15	16 28 4 3
M10	8 1	13 21 2 44	4 42 2 6	0 3 1 13 2 . 0		3 28 1 4					1 23		16 29 4 3
T 11			4 25 2 12	6 32 1 12 24 5		3 22 1 4					1 24		16 30 4 3
W12			4 7 2 18			3 17 1 4		18 54 0 12			1 25	1 50 28 17	
T 13		27 15 5 3	3 46 2 24			3 12 1 4		18 54 0 12			1 27	1 52 28 18	
F 14 S 15	9 29 9 50					3 6 1 4 3 1 1 4		18 55 0 12 18 56 0 12			1 28 1 29	1 53 28 18 1 54 28 19	
S 16	10 12					2 56 1 4		18 57 0 12			1 29	1 55 28 19	
M17 T 18	10 33		2 10 2 40			2 51 1 5		18 57 0 12			1 29	1 57 28 20	
W19	10 34		1 42 2 42 1 13 2 44			2 45 1 5 2 40 1 5		18 58 0 12 18 59 0 12			1 28 1 28	1 58 28 20 1 59 28 21	
T 20	11 35	-			1 31	2 35 1 5					1 27	2 0 28 21	16 38 4 3
F 21	11 55	1s14 0s30			1 31	2 30 1 5					1 27	2 2 28 22	
S 22	12 16	7 17 1 38	0n22 2 46		1 31	2 25 1 5					1 28	2 3 28 22	
S 23	12 36	12 58 2 40	0 56 2 46	12 10 0 52 24 5	1 30	2 20 1 5	14 22 2 32	19 2 0 12	7 0 1 0	24 11 2 56	1 29	2 4 28 23	16 40 4 2
M24	12 56	18 4 3 33	1 32 2 45	12 36 0 51 24 5	1 30	2 15 1 5	14 21 2 32	19 3 0 12	7 0 1 0	24 11 2 56	1 31	2 6 28 23	
T 25	13 15	22 21 4 16	2 8 2 43	13 2 0 49 24 5	1 30	2 10 1 6	14 20 2 32	19 4 0 12	6 59 1 0	<b>24</b> 11 2 56	1 34	2 7 28 24	16 42 4 2
W26	13 35		- 1			2 5 1 6			6 59 1 0	<b>24</b> 11 2 56	1 37	2 8 28 24	
T 27	13 54		3 25 2 39			2 0 1 6			6 58 1 0		1 40	2 9 28 24	
F 28	14 13		4 4 2 36			1 55 1 6			6 57 1 0			2 11 28 25	
S 29	14 31	28 7 5 0	4 45 2 32	2 14 44 0 40 24 5	1 1 29	1 50 1 6	14 15 2 32	19 7 0 12	6 57 1 0	24 11 2 56	1 45	2 12 28 25	16 46 4 2
S 30	14n50	26 s20 4 s38	5n26 2s28	15n 9 0s38 <mark>24n5</mark>	3 1n29	1 s45 1 s 6	14s13 2n32	19n 8 0s12	6s56 1s 0	<b>24n11</b> 2n56	1 s46	2 s 1 3 2 8 s 2 6	16n47 4s 2

Julian Day Number = 2338410.5, Delta T = 18.30 sec Ecliptic obliquity = 23°28'56, Nutation =  $0^{\circ}00'01$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}24'59$ , Lahiri =  $19^{\circ}32'00$ Greg. Calendar

MAY 1690 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂ <sup>™</sup>	4	ħ	)ұ(	卉	Р	ß	Ω	Ç	γ <sub>k</sub>	Day
M 1	14 37 15	10856'09	3≈29	21 <b>Y</b> 23	14811	5931	28 <b>)</b> 22	15°R55	26811	14 <b>) (</b> 47	249520	25°R32	24 <b>) (</b> 22	23 <b>×</b> 1	2 <b>∏</b> 47	M 1
T 2	14 41 11	11°54'13	15°41	23° 6	15°25	6° 7	28°34	15 <b>M</b> 50	26°14	14°49	24°21	25°D32	24°19	23° 7	2°52	T 2
W 3	14 45 8	12°52'15	28° 9	24°51	16°39	6°42	28°47	15°46	26°17	14°50	24°21	25 <b>)</b> 32	24°16	23°14	2°56	W 3
T 4	14 49 5	13°50'16	10 <b>) (</b> 57	26°38	17°53	7°18	28°59	15°41	26°21	14°52	24°22	25°34	24°13	23°21	3° 1	T 4
F 5	14 53 1	14°48'15	24° 9	28°27	19° 7	7°55	29°11	15°37	26°24	14°53	24°23	25°R34	24°10	23°27	3° 6	F 5
S 6	14 56 58	15°46'13	7 <b>Ƴ</b> 49	0818	20°21	8°31	29°23	15°32	26°28	14°54	24°24	25°34	24° 7	23°34	3°11	S 6
S 7	15 0 54	16°44'10	21°56	2°11	21°35	9° 7	29°35	15°28	26°31	14°56	24°24	25°31	24° 3	23°41	3°15	S 7
M 8	15 451	17°42'05	6 <b>8</b> 27	4° 5	22°49	9°43	29°47	15°23	26°35	14°57	24°25	25°26	24° 0	23°48	3°20	M 8
T 9	15 8 47	18°39'59	21°19	6° 2	24° 2	10°19	29°59	15°19	26°38	14°58	24°26	25°19	23°57	23°54	3°25	T 9
W10	15 12 44	19°37'52	6 <b>Ⅱ</b> 21	8° 0	25°16	10°55	0 <b>Υ</b> 11	15°14	26°42	15° 0	24°27	25°11	23°54	24° 1	3°30	W10
T 11	15 16 40	20°35'43	21°26	10° 1	26°30	11°31	0°23	15°10	26°45	15° 1	24°28	25° 3	23°51	24° 8	3°34	T 11
F 12	15 20 37	21°33'32	69522	12° 2	27°44	12° 7	0°35	15° 5	26°49	15° 2	24°28	24°56	23°47	24°15	3°39	F 12
S 13	15 24 34	22°31'20	21° 2	14° 6	28°58	12°44	0°46	15° 1	26°52	15° 3	24°29	24°50	23°44	24°21	3°44	S 13
S 14	15 28 30	23°29'06	5Ω22	16°11	0П12	13°20	0°58	14°56	26°56	15° 4	24°30	24°47	23°41	24°28	3°49	S 14
M15	15 32 27	24°26'50	19°18	18°18	1°25	13°56	1° 9	14°52	26°59	15° 5	24°31	24°D45	23°38	24°35	3°54	M15
T 16	15 36 23	25°24'33	2 <b>m</b> 51	20°26	2°39	14°32	1°20	14°47	27° 3	15° 6	24°32	24°45	23°35	24°41	3°59	T 16
W17	15 40 20	26°22'13	16° 3	22°35	3°53	15° 8	1°32	14°43	27° 6	15° 7	24°33	24°46	23°32	24°48	4° 4	W17
T 18	15 44 16	27°19'53	28°57	24°45	5° 7	15°45	1°43	14°39	27°10	15° 8	24°34	24°R46	23°28	24°55	4° 8	T 18
F 19	15 48 13	28°17'30	11 <b>≏</b> 36	26°56	6°20	16°21	1°54	14°34	27°13	15° 9	24°35	24°45	23°25	25° 2	4°13	F 19
S 20	15 52 9	29°15'06	24° 3	29° 8	7°34	16°57	2° 5	14°30	27°17	15°10	24°36	24°41	23°22	25° 8	4°18	S 20
S 21	15 56 6	0 <b>Ⅱ</b> 12'41	6 <b>M</b> 20	1П20	8°48	17°34	2°15	14°26	27°20	15°11	24°37	24°35	23°19	25°15	4°23	S 21
M22	16 0 3	1°10'15	18°29	3°31	10° 1	18°10	2°26	14°22	27°24	15°12	24°38	24°26	23°16	25°22	4°28	M22
T 23	16 3 59	2° 7'47	0 <b>₮</b> 32	5°43	11°15	18°46	2°37	14°17	27°27	15°13	24°39	24°15	23°13	25°29	4°33	T 23
W24	16 7 56	3° 5'19	12°30	7°54	12°29	19°23	2°47	14°13	27°31	15°14	24°40	24° 3	23° 9	25°35	4°38	W24
T 25	16 11 52	4° 2'49	24°25	10° 4	13°42	19°59	2°58	14° 9	27°34	15°14	24°41	23°50	23° 6	25°42	4°43	T 25
F 26	16 15 49	5° 0'18	6 <b>ਰ</b> 17	12°13	14°56	20°36	3° 8	14° 5	27°38	15°15	24°43	23°38	23° 3	25°49	4°48	F 26
S 27	16 19 45	5°57'47	18° 9	14°21	16°10	21°12	3°18	14° 1	27°41	15°16	24°44	23°28	23° 0	25°55	4°53	S 27
S 28	16 23 42	6°55'14	0≈ 4	16°27	17°23	21°49	3°28	13°57	27°45	15°17	24°45	23°20	22°57	26° 2	4°58	S 28
M29	16 27 38	7°52'41	12° 5	18°32	18°37	22°25	3°38	13°53	27°48	15°17	24°46	23°15	22°53	26° 9	5° 3	M29
T 30	16 31 35	8°50'06	24°15	20°34	19°51	23° 2	3°48	13°49	27°52	15°18	24°47	23°13	22°50	26°16	5° 8	T 30
W31	16 35 32	9 <b>Ⅱ</b> 47'32	6 <b>)</b> (40	22 <b>II</b> 35	21 <b>II</b> 4	23938	3 <b>℃</b> 58	13 <b>M</b> .45	27 <b>8</b> 55	15 <b>米</b> 18	249649	23°D12	22 <b>) (</b> 47	26 <b>₹</b> 22	5 <b>Ⅱ</b> 12	W31

Day	0	D	ğ	φ	ð	4	ħ	)Å(	<del>1</del> t	Р	r	S .	Ţ.,	ę k
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl d	ecl decl	lat
M 1	15n 8	23 s22 4s	4 6n 9 2s2	3 15n33 0s36	24n51 1n29	1s40 1s 6	14s12 2n32	19n 8 0s12	6s56 1s 1	24n10 2n56	1 s47	2 s 1 4 2 8	326 16n48	4 s 2
T 2	15 26	19 19 3 1	8 6 52 2 1	8 15 57 0 34	24 49 1 29	1 35 1 7	14 11 2 32	19 9 0 12	6 55 1 1	24 10 2 56	1 47	2 16 28	<b>26</b> 16 49	4 2
W 3	15 44	14 22 2 2	2 7 36 2 1	2 16 20 0 32	24 47 1 29	1 30 1 7	14 10 2 32	19 10 0 12	6 55 1 1	24 10 2 56	1 47	2 17 28	27 16 49	4 2
T 4	16 1	8 41 1 1			24 45 1 29	1 26 1 7		19 11 0 12	6 54 1 1	24 10 2 56	1 46		<b>27</b> 16 50	
F 5	16 18	2 27 0	8 9 6 1 5		24 43 1 28			19 12 0 12		24 10 2 56		2 19 28		
S 6	16 35	4n 6 1n	5 9 52 1 5	17 28 0 25	24 40 1 28	1 16 1 7	14 6 2 32	19 13 0 12	6 53 1 1	24 10 2 56	1 46	2 21 28	28 16 52	2 4 2
S 7	16 52	10 40 2 1	7 10 38 1 4	4 17 49 0 23	24 38 1 28	1 12 1 7	14 4 2 32	19 13 0 12	6 53 1 1	24 10 2 56	1 47	2 22 28	28 16 53	3 4 2
M 8	17 8	16 52 3 2	1 11 24 1 3	6 18 11 0 21	24 35 1 28	1 7 1 8	14 3 2 32	19 14 0 12	6 52 1 1	24 10 2 56	1 49	2 23 28	29 16 54	4 2
T 9	17 25	22 12 4 1	4 12 11 1 2	7 18 31 0 18	24 32 1 28	1 2 1 8	14 2 2 32	19 15 0 12	6 52 1 1	24 9 2 56	1 52	2 24 28	29 16 55	4 2
W10	17 40	26 9 4 4	9 12 58 1 1	8 18 52 0 16	24 29 1 27	0 58 1 8	14 1 2 32	19 16 0 12	6 51 1 1	24 9 2 56	1 55	2 26 28	<b>29</b> 16 56	6 4 2
T 11	17 56	28 16 5	5 13 45 1	9 19 11 0 13	24 26 1 27	0 53 1 8	13 59 2 32	19 17 0 12	6 51 1 1	24 9 2 56	1 58	2 27 28	29 16 56	6 4 2
F 12	18 11	28 18 4 5			24 22 1 27	0 49 1 8		19 17 0 12	6 51 1 1	24 9 2 56			30 16 57	
S 13	18 26	26 21 4 3	4 15 19 0 4	9 19 49 0 9	24 19 1 27	0 44 1 8	13 57 2 32	19 18 0 12	6 50 1 1	24 9 2 56	2 3	2 29 28	30 16 58	3 4 2
S 14	18 41	22 43 3 5	2 16 5 0 3	9 20 7 0 6	24 15 1 26	0 40 1 9	13 56 2 32	19 19 0 12	6 50 1 1	24 9 2 56	2 5	2 31 28	30 16 59	4 2
M15	18 55	17 52 2 5	8 16 51 0 2	9 20 25 0 4	24 11 1 26	0 36 1 9	13 55 2 32	19 20 0 12	6 49 1 1	24 8 2 56	2 5	2 32 28	<b>31</b> 17 0	4 2
T 16	19 9	12 15 1 5	4 17 36 0 1	8 20 42 0 2	<b>24</b> 7 1 26	0 31 1 9	13 53 2 31	19 21 0 12	6 49 1 1	24 8 2 56	2 5	2 33 28		4 2
W17	19 23				24 2 1 26			19 22 0 12	6 49 1 1	24 8 2 56	2 5	2 34 28		2 4 2
T 18	19 36	0 5 0s2			23 58 1 26			19 22 0 12				2 36 28		2 4 3
F 19	19 49				23 53 1 25			19 23 0 12		24 8 2 56	-	2 37 28		3 4 3
S 20	20 2	11 39 2 2	9 20 23 0 2	24 21 45 0 8	23 49 1 25	0 14 1 10	13 49 2 31	19 24 0 12	6 48 1 1	24 8 2 56	2 7	2 38 28	32 17 4	4 3
S 21	20 14	16 50 3 2	2 21 1 0 3	4 21 59 0 11	23 44 1 25	0 10 1 10	13 48 2 31	19 25 0 12	6 47 1 1	<b>24 7 2 56</b>	2 9	2 40 28	32 17 5	4 3
M22	20 26	21 17 4	5 21 37 0 4	4 22 12 0 13	23 39 1 25	0 6 1 10	13 46 2 31	19 26 0 12	6 47 1 1	24 7 2 56	2 13	2 41 28	<b>32</b> 17 6	6 4 3
T 23	20 37	24 48 4 3	6 22 11 0 5	4 22 25 0 15	23 33 1 24	0 2 1 10	13 45 2 31	19 26 0 12	6 47 1 1	24 7 2 56	2 17	2 42 28	<b>33</b> 17 6	6 4 3
W24	20 49		5 22 42 1	3 22 38 0 18	23 28 1 24	0n 2 1 11	-	19 27 0 11	6 47 1 1	24 7 2 56	2 22	2 43 28		4 3
T 25					23 22 1 24			19 28 0 11	6 46 1 1	24 7 2 56	2 27	2 45 28		
_	21 10	-			23 17 1 24	0 10 1 11		19 29 0 11	6 46 1 2		2 32	2 46 28		
S 27	21 20	26 46 4 3	4 24 1 1 2	27 23 10 0 25	23 11 1 23	0 14 1 11	13 41 2 30	19 30 0 11	6 46 1 2	24 6 2 56	2 36	2 47 28	33 17 10	4 3
S 28	21 30	24 7 4	2 24 21 1 3	4 23 20 0 27	23 5 1 23	0 17 1 11	13 40 2 30	19 30 0 11	6 46 1 2	24 6 2 56	2 39	2 48 28	<b>33</b> 17 10	4 3
M29	21 40	20 23 3 1	9 24 40 1 4	1 23 29 0 30	22 59 1 23	0 21 1 12	13 39 2 30	19 31 0 11	6 45 1 2	24 6 2 56	2 41	2 50 28	<b>34</b> 17 11	4 3
	21 49	15 46 2 2	7 24 55 1 4	6 23 37 0 32	22 52 1 23	0 25 1 12	13 38 2 30	19 32 0 11	6 45 1 2	24 6 2 56	2 42	2 51 28	<b>34</b> 17 12	2 4 3
W31	21n58	10 s 25 1 s 2	6 25n 8 1n5	1 23n45 0n34	22n46 1n22	0n29 1s12	13 s37 2n30	19n33 0s11	6s45 1s 2	24n 5 2n56	2 s42	2 s 5 2 2 8	34 17n13	4 s 4

Julian Day Number = 2338440.5, Delta T = 18.26 sec Ecliptic obliquity = 23°28'55, Nutation =  $0^{\circ}00'01$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}25'03$ , Lahiri =  $19^{\circ}32'04$ Greg. Calendar

JUNE 1690 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	Ж,	¥	Р	n	v	Ç	ę,	Day
T 1	16 39 28	10 <b>Ⅱ</b> 44'56	19 <b>)</b> 24	24 <b>II</b> 33	22 <b>I</b> I18	249915	<b>4℃</b> 7	13°R42	27 <b>8</b> 59	15 <b>)</b> 19	24950	23°R12	22 <b>) (</b> 44	26 <b>×</b> 29	5 <b>Ⅱ</b> 17	T 1
F 2	16 43 25	11°42'20	2 <b>Y</b> 32	26°30	23°31	24°51	4°17	13 <b>M</b> 38	28° 2	15°19	24°51	23 <b>米</b> 12	22°41	26°36	5°22	F 2
S 3	16 47 21	12°39'43	16° 8	28°24	24°45	25°28	4°26	13°34	28° 5	15°20	24°52	23°10	22°38	26°43	5°27	S 3
S 4	16 51 18	13°37'06	0 <b>8</b> 12	09915	25°59	26° 4	4°35	13°31	28° 9	15°20	24°54	23° 6	22°34	26°49	5°32	S 4
M 5	16 55 14	14°34'28	14°45	2° 4	27°12	26°41	4°45	13°27	28°12	15°21	24°55	23° 0	22°31	26°56	5°37	M 5
T 6	16 59 11	15°31'50	29°42	3°51	28°26	27°17	4°54	13°24	28°16	15°21	24°56	22°51	22°28	27° 3	5°42	T 6
W 7	17 3 7	16°29'11	14Ⅲ55	5°35	29°39	27°54	5° 2	13°20	28°19	15°22	24°58	22°41	22°25	27° 9	5°47	W 7
T 8	17 7 4	17°26'31	09513	7°16	0953	28°31	5°11	13°17	28°22	15°22	24°59	22°30	22°22	27°16	5°52	T 8
F 9	17 11 1	18°23'51	15°25	8°55	2° 6	29° 8	5°20	13°14	28°26	15°22	25° 0	22°20	22°19	27°23	5°57	F 9
S 10	17 14 57	19°21'10	$0\Omega 21$	10°31	3°20	29°44	5°28	13°10	28°29	15°23	25° 2	22°12	22°15	27°30	6° 1	S 10
S 11	17 18 54	20°18'27	14°53	12° 5	4°33	0Ω21	5°37	13° 7	28°32	15°23	25° 3	22° 7	22°12	27°36	6° 6	S 11
M12	17 22 50	21°15'44	28°58	13°36	5°47	0°58	5°45	13° 4	28°36	15°23	25° 5	22° 4	22° 9	27°43	6°11	M12
T 13	17 26 47	22°13'01	12 <b>m</b> 36	15° 5	7° 0	1°34	5°53	13° 1	28°39	15°23	25° 6	22° 3	22° 6	27°50	6°16	T 13
W14	17 30 43	23°10'16	25°47	16°31	8°14	2°11	6° 1	12°58	28°42	15°23	25° 7	22° 3	22° 3	27°56	6°21	W14
T 15	17 34 40	24° 7'30	8 <b>₾</b> 37	17°54	9°27	2°48	6° 9	12°55	28°46	15°23	25° 9	22° 2	21°59	28° 3	6°25	T 15
F 16	17 38 37	25° 4'44	21° 9	19°14	10°41	3°25	6°16	12°53	28°49	15°23	25°10	22° 1	21°56	28°10	6°30	F 16
S 17	17 42 33	26° 1'57	3 <b>M</b> 27	20°32	11°54	4° 2	6°24	12°50	28°52	15°23	25°12	21°57	21°53	28°17	6°35	S 17
S 18	17 46 30	26°59'10	15°35	21°47	13° 7	4°38	6°31	12°47	28°55	15°R23	25°13	21°50	21°50	28°23	6°40	S 18
M19	17 50 26	27°56'22	27°35	22°59	14°21	5°15	6°38	12°45	28°58	15°23	25°15	21°40	21°47	28°30	6°44	M19
T 20	17 54 23	28°53'33	9 <b>∡</b> 31	24° 8	15°34	5°52	6°45	12°42	29° 2	15°23	25°16	21°28	21°44	28°37	6°49	T 20
W21	17 58 19	29°50'45	2 <u>1</u> °25	25°14	16°47	6°29	6°52	12°40	29° 5	15°23	25°18	21°15	21°40	28°44	6°54	W21
T 22	18 2 16	0947'56	3 <b>⋜</b> 18	26°17	18° 1	7° 6	6°59	12°38	29° 8	15°23	25°19	21° 1	21°37	28°50	6°58	T 22
F 23	18 6 12	1°45'06	15°11	27°17	19°14	7°43	7° 6	12°36	29°11	15°23	25°21	20°48	21°34	28°57	7° 3	F 23
S 24	18 10 9	2°42'17	27° 6	28°14	20°28	8°20	7°12	12°34	29°14	15°23	25°22	20°37	21°31	29° 4	7° 8	S 24
S 25	18 14 6	3°39'27	9≈ 5	29° 7	21°41	8°57	7°18	12°32	29°17	15°23	25°24	20°29	21°28	29°10	7°12	S 25
M26	18 18 2	4°36'38	21°10	29°57	22°54	9°34	7°24	12°30	29°20	15°22	25°26	20°23	21°25	29°17	7°17	M26
T 27	18 21 59	5°33'48	3 <b>∺</b> 24	0 <b>Ω</b> 43	24° 7	10°11	7°30	12°28	29°23	15°22	25°27	20°20	21°21	29°24	7°21	T 27
W28	18 25 55	6°30'59	15°50	1°26	25°21	10°48	7°36	12°26	29°26	15°22	25°29	20°D19	21°18	29°31	7°26	W28
T 29	18 29 52	7°28'10	28°34	2° 5	26°34	11°25	7°42	12°24	29°29	15°21	25°30	20°19	21°15	29°37	7°30	T 29
F 30	18 33 48	8925'21	11 <b>Y</b> 39	2 <b>Ω</b> 40	279547	12 <b>N</b> 2	7 <b>Ƴ</b> 47	12 <b>M</b> 23	29 <b>8</b> 32	15 <b>米</b> 21	25932	20°R19	21 <b>米</b> 12	29 <b>×</b> 744	7 <b>Ⅲ</b> 35	F 30

Day	0	D		<b></b>	φ	ď	4		ħ		)į	β(	<del>4</del>		Р	ก	Ω	Ç	ķ	
	decl	decl lat	decl	lat	decl lat	decl lat	decl lat		decl l	lat	decl	lat	decl lat	de	el lat	decl	decl	decl	decl la	at
T 1 F 2 S 3	22n 6 22 14 22 21	1n46 0n	20 25n18 49 25 25 58 25 30	1 59 2	3 58 0 39	22n39 1n22 22 32 1 22 22 25 1 22	0 36 1	s12 1 12 1 13 1	13 35	2 29	19n34 19 34 19 35	0 11	6 s 4 5 1 6 4 4 1	s 2 24n 2 24 2 24	5 2n56 5 2 56 5 2 56	2 s42 2 42 2 43	2 55	28 s34 28 34 28 34	17 14	4 s 4 4 4 4 4
S 4 M 5 T 6 W 7	22 42 22 48	20 3 3 24 37 4 27 33 4	2 25 32 57 25 32 36 25 30 58 25 26	2 4 2 2 5 2 2 4 2	4 13 0 45 4 16 0 48 4 19 0 50	22 4 1 21 21 56 1 21	0 46 1 0 49 1 0 53 1	13 1 13 1 14 1	13 31	2 29 2 29 2 28	19 36 19 37 19 37 19 38	0 11 0 11 0 11	6 44 1 6 44 1 6 44 1	2 24 2 24 2 24 2 24	5 2 56 4 2 56 4 2 56 4 2 56	2 55	2 58 3 0 3 1	28 34 28 35 28 35 28 35	17 16 17 17 17 18	4 4 4 4 4 4 4 4
T 8 F 9 S 10		27 10 4	58 25 20 37 25 12 57 25 2	2 2 2	4 22 0 54	21 48 1 20 21 41 1 20 21 33 1 20	0 59 1	14 1 14 1 14 1	13 29	2 28	19 39 19 40 19 40	0 11	6 44 1 6 44 1 6 44 1	2 24 2 24 2 24	4 2 56 3 2 56 3 2 56	2 59 3 3 3 6	3 3	28 35 28 35 28 35	17 19	4 5 4 5 4 5
S 11 M12 T 13 W14 T 15 F 16 S 17	23 15 23 18 23 21 23 23	13 42 1 7 37 0 1 22 0s 4s45 1 10 32 2	3 24 51 59 24 38 50 24 24 20 24 8 26 23 52 27 23 34 20 23 15	1 52 2 1 47 2 1 42 2 1 36 2 1 29 2	4 21 1 0 4 20 1 2 4 17 1 4 4 14 1 6 4 10 1 7	21 24 1 20 21 16 1 19 21 8 1 19 20 59 1 19 20 51 1 19 20 42 1 18 20 33 1 18	1 9 1 1 11 1 1 14 1 1 17 1 1 20 1	15 1 15 1 15 1 15 1 16 1 16 1	13 27 13 26 13 25 13 25 13 24	2 27 2 27 2 27 2 27 2 27 2 27	19 41 19 42 19 43 19 43 19 44 19 45 19 45	0 11 0 11 0 11 0 11	6 44 1 6 44 1 6 44 1 6 44 1 6 44 1 6 44 1	2 24 2 24 2 24 2 24 2 24 2 24 2 24 2 24	3 2 56 3 2 56 2 2 56 2 2 56 2 2 56 2 2 56 2 2 56 1 2 56		3 7 3 8 3 10 3 11 3 12	28 35 28 35 28 35 28 35 28 35 28 35 28 35	17 21 17 22 17 22 17 23 17 24	4 5 4 5 4 5 4 6 4 6 4 6 4 6
S 18 M19 T 20 W21 T 22 F 23 S 24	23 29	24 6 4 26 45 4 28 11 5 28 19 4 27 9 4	3 22 56 34 22 36 53 22 15 0 21 53 53 21 32 33 21 9 2 20 47	1 5 2 0 56 2 0 47 2 0 36 2 0 26 2	3 55 1 12 3 48 1 14 3 41 1 16 3 32 1 17 3 24 1 19	20 24 1 18 20 14 1 17 20 5 1 17 19 55 1 17 19 46 1 17 19 36 1 16 19 26 1 16	1 28 1 1 31 1 1 33 1 1 36 1 1 38 1	16 1 17 1 17 1 17 1 17 1 18 1 18 1	13 22 13 22 13 21 13 21 13 20	2 26 2 26 2 26 2 25 2 25 2 25	19 46 19 47 19 48 19 48 19 49 19 50 19 50	0 11 0 11 0 11 0 11 0 11	6 44 1 6 44 1 6 44 1 6 44 1 6 44 1 6 44 1	3 24 3 24 3 24 3 24 3 24 3 24 3 24 3 24	1 2 56 1 2 57 1 2 57 0 2 57 0 2 57 0 2 57 0 2 57 0 2 57	3 19	3 16 3 17 3 18 3 20 3 21	28 35 28 35 28 35 28 35 28 35 28 35 28 35	17 25 17 26 17 27 17 27 17 28	4 6 4 6 4 7 4 7 4 7 4 7 4 8
	23 24	16 48 2 11 39 1 5 57 0 0n 6 0n	20 20 25 28 20 2 28 19 40 24 19 18 44 18 56 51 18n35	0 s 10 2 2 2 2 0 36 2 0 49 2 2	2 54 1 23 2 42 1 24 2 30 1 25 2 17 1 26		1 45 1 1 47 1 1 49 1 1 51 1	-	13 19 13 19 13 19 13 18	2 24 2 24 2 24 2 24	19 51 19 52 19 52 19 53 19 54 19n54	0 11 0 11 0 11	6 44 1 6 44 1 6 45 1 6 45 1 6 45 1 6 845 1	3 23 3 3 23 3 3 23 3 3 23 3 3 23 3 3 23 3 3 23 3	19 2 57 19 2 57 19 2 57 18 2 57	3 49 3 50 3 51 3 51	3 25 3 26 3 27 3 29	28 35 28 35 28 35 28 34 28 34 28 34	17 29 17 30 17 30 17 31	4 8 4 8 4 8 4 8 4 9 4s 9

Julian Day Number = 2338471.5, Delta T = 18.22 sec Ecliptic obliquity =  $23^{\circ}28'55$ , Nutation =  $0^{\circ}00'01$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}25'08$ , Lahiri =  $19^{\circ}32'08$ Greg. Calendar

JULY 1690 GC 00:00 UT

UUL	1030	uc													00.0	0 0 1
Day	Sid.t	0	D	ğ	·	ð	4	ħ	)∤(	并	В	₽.	v	Ç	ķ	Day
S 1	18 37 45	9922'33	25 <b>Y</b> 8	3 <b>£</b> 10	299 1	12 <b>N</b> 39	7 <b>⋎</b> 53	12°R21	29 <b>8</b> 35	15°R21	25934	20°R18	21 <b>米</b> 9	29 <b>×</b> 751	7 <b>Ⅱ</b> 39	S 1
S 2	18 41 41	10°19'44	9 <b>8</b> 5	3°37	0Ω14	13°16	7°58	12 <b>M</b> 20	29°38	15 <b>∺</b> 20	25°35	20 <b>)</b> 15	21° 5	29°57	7°44	S 2
M 3	18 45 38	11°16'57	23°29	3°59	1°27	13°53	8° 3	12°19	29°41	15°20	25°37	20°10	21° 2	0중 4	7°48	M 3
T 4	18 49 35	12°14'10	8 <b>I</b> I18	4°17	2°40	14°30	8° 7	12°18	29°43	15°19	25°38	20° 2	20°59	0°11	7°52	T 4
W 5	18 53 31	13°11'23	23°25	4°30	3°53	15° 8	8°12	12°16	29°46	15°19	25°40	19°53	20°56	0°18	7°57	W 5
T 6	18 57 28	14° 8'36	8940	4°39	5° 7	15°45	8°17	12°15	29°49	15°18	25°42	19°44	20°53	0°24	8° 1 8° 5	T 6 F 7
F 7	19 1 24 19 5 21	15° 5'50 16° 3'04	23°54 8 <b>Ω</b> 55	4°R43 4°42	6°20 7°33	16°22 16°59	8°21 8°25	12°15 12°14	29°52 29°54	15°17 15°17	25°43 25°45	19°35 19°28	20°50 20°46	0°31 0°38	8° 5 8° 9	F 7 S 8
S 9	19 9 17	17° 0'18	23°35	4°36	8°46	17°36	8°29	12°13	29°57	15°16	25°47	19°23	20°43	0°45	8°14	S 9
M10	19 13 14	17°57'32	7 Mp 48 21°33	4°26 4°11	9°59 11°12	18°14 18°51	8°33 8°36	12°12 12°12	29°59 0 <b>II</b> 2	15°15 15°15	25°48	19°21 19°D20	20°40 20°37	0°51 0°58	8°18 8°22	M10 T 11
T 11 W12	19 17 11 19 21 7	18°54'46 19°52'00	4 <u>Ω</u> 50	3°51	11°12 12°26	18°31 19°28	8°39	12°12	0 <u>н</u> 2 0° 5	15°13	25°50 25°52	19°21	20°37 20°34	1° 5	8°26	W12
T 13	19 25 4	20°49'14	17°42	3°27	13°39	20° 6	8°43	12°11	0° 7	15°13	25°53	19°R21	20°31	1°11	8°30	T 13
F 14	19 29 0	21°46'29	0ML14	2°59	14°52	20°43	8°46	12°11	0°10	15°12	25°55	19°21	20°27	1°18	8°34	F 14
S 15	19 32 57	22°43'43	12°30	2°27	16° 5	21°20	8°48	12°11	0°12	15°12	25°57	19°19	20°24	1°25	8°38	S 15
S 16	19 36 53	23°40'58	24°34	1°52	17°18	21°58	8°51	12°D11	0°15	15°11	25°58	19°15	20°21	1°32	8°42	S 16
M17	19 40 50	24°38'14	6 <b>₹</b> 32	1°14	18°31	22°35	8°53	12°11	0°17	15°10	26° 0	19° 8	20°18	1°38	8°46	M17
T 18	19 44 46	25°35'30	1 <u>8</u> °25	0°34	19°44	23°13	8°56	12°11	0°19	15° 9	26° 2	19° 0	20°15	1°45	8°49	T 18
W19	19 48 43	26°32'46	0 <b>궁</b> 17	29952	20°57	23°50	8°58	12°11	0°22	15° 8	26° 3	18°51	20°11	1°52	8°53	W19
T 20	19 52 40	27°30'03	12°10	29° 9	22°10	24°28	9° 0	12°12	0°24	15° 7	26° 5	18°41	20° 8	1°59	8°57	T 20
F 21 S 22	19 56 36 20 0 33	28°27'20 29°24'38	24° 7 6≈ 8	28°27 27°44	23°23 24°36	25° 5 25°43	9° 1 9° 3	12°12 12°13	0°26 0°28	15° 6 15° 5	26° 7 26° 8	18°32 18°24	20° 5 20° 2	2° 5 2°12	9° 1 9° 4	F 21 S 22
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S 23	20 4 29	0 <b>Ω</b> 21'57	18°15	27° 4	25°48	26°20	9° 4	12°13	0°30	15° 4	26°10	18°18	19°59	2°19	9° 8	S 23
M24	20 8 26	1°19'16	0 <b>)</b> €30	26°25	27° 1	26°58	9° 5 9° 6	12°14	0°33	15° 3	26°12	18°14	19°56	2°25	9°11	M24
T 25 W26	20 12 22 20 16 19	2°16'37 3°13'58	12°55 25°31	25°49 25°17	28°14 29°27	27°35 28°13	9° 6 9° 7	12°15 12°16	0°35 0°37	15° 2 15° 1	26°13 26°15	18°D13 18°13	19°52 19°49	2°32 2°39	9°15 9°18	T 25 W26
T 27	20 10 19	4°11'21	8 <b>γ</b> 22	23 17 24°49	0 m 40	28°50	9° 7	12°17	0°39	15° 0	26°17	18°14	19°49	2°46	9°22	T 27
F 28	20 24 12	5° 8'44	21°31	24°26	1°53	29°28	9° 7	12°18	0°41	14°59	26°18	18°15	19°43	2°52	9°25	F 28
S 29	20 28 9	6° 6'09	4 <b>8</b> 59	24° 8	3° 5	0 mg 6	9°R 7	12°19	0°42	14°57	26°20	18°R16	19°40	2°59	9°29	S 29
S 30	20 32 5	7° 3'35	18°49	23°55	4°18	0°44	9° 7	12°20	0°44	14°56	26°21	18°15	19°37	3° 6	9°32	S 30
M31	20 36 2	8 <b>0</b> 1'03	3 <b>I</b> 2	23°D49	5 <b>m</b> 31	1 <b>m</b> 21	9 <b>Ƴ</b> 7	12 <b>M</b> 22	0 <b>Ц</b> 46	14 <b>米</b> 55	269523	18 <b>∺</b> 13	19 <b>∺</b> 33	3 <b>ට</b> 12	9 <b>耳</b> 35	M31

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S 1	23n 9	12n26	2n54	18n14	1 s 1 7	21n50	1n28	18n13	1n14	1n54	1 s20	13 s18	2n23	19n55	0s11	6 s45	1 s 3	23n58	2n57	3 s51	3 s 3 1	28 s34	17n32 4s 9
S 2		18 9	3 48			21 35	1 29		1 14			13 18		19 55		6 46		23 58		3 52		28 34	
M 3		23 2	4 31	17 34		21 20	1 30		1 13					19 56		6 46		23 57	2 57	3 54		28 34	
T 4 W 5		26 36 28 21	4 56 5 2	17 16 16 58		21 4 20 48	1 31 1 32	17 40 17 29	1 13 1 13		1 21 1 21	13 18 13 17		19 57 19 57	-	6 46 6 46	1 3		2 57 2 57	3 57 4 1		28 34 28 34	
T 6		27 58	4 46			20 48	1 32		1 12			13 17		19 58		6 47	1 3		2 57	4 4		28 33	
F 7	22 38	25 28	4 11	16 26	2 46	20 13	1 33		1 12			13 17		19 58		6 47	1 3	23 56	2 57	4 8		28 33	
S 8	22 31	21 14	3 18	16 12	3 0	19 55	1 33	16 55	1 12	2 5	1 22	13 17	2 21	19 59	0 11	6 47	1 3	23 56	2 57	4 11	3 40	28 33	17 35 4 11
S 9	22 24	15 46	2 13	16 0	3 15	19 37	1 34	16 43	1 11	2 7	1 22	13 17	2 21	20 0	0 11	6 47	1 3	23 56	2 57	4 13	3 41	28 33	17 35 4 11
M10	22 16	9 36	1 1	15 48	3 29	19 17	1 34	16 31	1 11	2 8	1 22	13 17	2 21	20 0	0 11	6 48	1 3	23 56	2 57	4 13	3 42	28 33	17 35 4 11
T 11	22 9	-	0s12	15 39		18 58	1 35		1 11	2 9	-		2 21		0 11	6 48		23 55	2 57	4 14		28 32	
W12 T 13	22 1	3 s 1 0	1 22	15 31		18 37			1 10				2 20		0 11	6 48		23 55	2 58	4 13		28 32	
F 14	21 52 21 43	9 12 14 42	2 26 3 21	15 25 15 21		18 17 17 55	1 35 1 35		1 10 1 10		1 23	13 18 13 18	2 20 2 20			6 49 6 49		23 55 23 55	2 58 2 58	4 13 4 13		28 32 28 32	
S 15		19 30	4 5			17 34		15 31	1 9			13 18	2 20			6 49		23 54		4 14		28 32	
S 16	21 24	23 26	4 38	15 17	4 36	17 11	1 35	15 18	1 9	2 14	1 24	13 18	2 19	20 3	0 11	6 50	1 4	23 54	2 58	4 16	3 50	28 31	17 37 4 13
M17		26 20	4 58	15 19		16 49	1 35		1 9				2 19			6 50		23 54		4 18		28 31	
T 18	21 4	28 3	5 5	15 21	4 49	16 26	1 35	14 53	1 8	2 15	1 25	13 19	2 19	20 4	0 11	6 50		23 54	2 58	4 22	3 52	28 31	17 38 4 14
W19	20 53		4 59	15 26	4 53		1 35		1 8				2 18			6 51		23 53	2 58	4 25		28 30	
T 20		27 35	4 40			15 38	1 34		1 8				2 18			6 51		23 53	2 58	4 29		28 30	
F 21 S 22		25 25	4 9	15 40		15 14	1 34		1 7 1 7	-		13 20	2 18			6 52		23 53	2 58	4 33		28 30 28 30	
	20 19		3 27			14 49						13 21	2 18		-	6 52		23 53	2 58	4 36			
S 23		17 50	2 34			14 24		13 48	1 7			13 21	2 17		-	6 53		23 52	2 58	4 38		28 29	
M24 T 25	19 54	12 47 7 10	1 34 0 29	16 12 16 24		13 58 13 32	1 32 1 32		1 6 1 6			13 21 13 22	2 17 2 17		-	6 53 6 53		23 52 23 52	2 58 2 58	4 39 4 40	4 0	28 29 28 29	
W26	19 28		0 29 0n39	16 38	4 42		1 31	13 22	1 6			13 22	2 17		-	6 54		23 52	2 58	4 40		28 29	
T 27	19 15		1 47	16 52		12 40			1 5			13 23	2 16			6 54		23 51	2 59	4 40	4 4		
F 28	19 1	11 2	2 50	17 6	4 14	12 13			1 5	2 17	1 28	13 24	2 16	20 9	0 11	6 55	1 4	23 51	2 59	4 39	4 5	28 28	17 40 4 17
S 29	18 47	16 45	3 46	17 21	4 2	11 46	1 28	12 28	1 5	2 17	1 28	13 24	2 16	20 9	0 11	6 55	1 4	23 51	2 59	4 39	4 6	28 27	17 40 4 17
S 30	18 32	21 47	4 30	17 36	3 49	11 18	1 27	12 14	1 4	2 16	1 28	13 25	2 16	20 9	0 11	6 56	1 4	23 51	2 59	4 39	4 7	28 27	17 40 4 18
M31	18n18	25n41	4n59	17n51	3 s35	10n50	1n26	12n 0	1n 4	2n16	1 s29	13 s26	2n15	20n10	0s11	6 s 5 6	1 s 4	23n50	2n59	4 s40	4s 9	$28\mathrm{s}27$	17n40 4s18

 $\label{eq:Julian Day Number = 2338501.5, Delta T = 18.18 sec} \\ Ecliptic obliquity = 23°28'55, Nutation = 0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°25'12, Lahiri = 19°32'12Greg. Calendar \\ \\$ 

AUGUST 1690 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	ď	4	ħ	)∤(	并	В	R	Ω	Ç	ķ	Day
T 1	20 39 58	8 <b>\Omega</b> 58'32	17 <b>II</b> 35	239649	6 TD 43	1 m 59	9°R 7	12ML23	0 <b>∏</b> 48	14°R54	26925	18°R 9	19 <b>)</b> (30	3 <b>ට</b> 19	9П38	T 1
W 2	20 43 55	9°56'02	2924	23°56	7°56	2°37	9Υ 6	12°25	0°50	14 K54 14 <b>)</b> 52	26°26	18 <b>X</b> 4	19°27	3°26	9°41	W 2
T 3	20 47 51	10°53'33	17°23	24°10	9° 9	3°15	9° 5	12°27	0°51	14°51	26°28	17°59	19°24	3°33	9°44	T 3
F 4	20 51 48	11°51'06	2Ω23	24°30	10°21	3°52	9° 4	12°28	0°53	14°50	26°30	17°54	19°21	3°39	9°47	F 4
S 5	20 55 44	12°48'40	17°14	24°57	11°34	4°30	9° 3	12°30	0°55	14°49	26°31	17°50	19°17	3°46	9°50	S 5
S 6	20 59 41	13°46'14	1 mp 50	25°31	12°47	5° 8	9° 1	12°32	0°56	14°47	26°33	17°47	19°14	3°53	9°53	S 6
M 7	21 3 38	14°43'50	16° 3	26°11	13°59	5°46	8°59	12°34	0°58	14°46	26°34	17°D46	19°11	3°59	9°56	M 7
T 8	21 7 34	15°41'27	29°50	26°59	15°12	6°24	8°58	12°37	0°59	14°44	26°36	17°47	19° 8	4° 6	9°59	T 8
W 9	21 11 31	16°39'05	13 <b>≏</b> 12	27°53	16°24	7° 2	8°55	12°39	1° 1	14°43	26°38	17°48	19° 5	4°13	10° 2	W 9
T 10	21 15 27	17°36'43	26° 9	28°53	17°37	7°40	8°53	12°41	1° 2	14°42	26°39	17°50	19° 2	4°20	10° 4	T 10
F 11	21 19 24	18°34'23	8 <b>M</b> .44	29°59	18°49	8°18	8°51	12°44	1° 3	14°40	26°41	17°51	18°58	4°26	10° 7	F 11
S 12	21 23 20	19°32'04	21° 2	1 <b>\O</b> 12	20° 2	8°56	8°48	12°46	1° 4	14°39	26°42	17°R51	18°55	4°33	10° 9	S 12
S 13	21 27 17	20°29'46	3 <b>∡</b> 7 7	2°30	21°14	9°34	8°45	12°49	1° 6	14°37	26°44	17°51	18°52	4°40	10°12	S 13
M14	21 31 13	21°27'29	15° 4	3°54	22°26	10°12	8°42	12°52	1° 7	14°36	26°45	17°49	18°49	4°47	10°14	M14
T 15	21 35 10	22°25'14	2 <u>6</u> °57	5°23	23°39	10°50	8°39	12°54	1° 8	14°34	26°47	17°46	18°46	4°53	10°17	T 15
W16	21 39 7	23°22'59	8 <b>궁</b> 50	6°56	24°51	11°29	8°35	12°57	1° 9	14°33	26°49	17°42	18°43	5° 0	10°19	W16
T 17	21 43 3	24°20'46	20°46	8°34	26° 3	12° 7	8°32	13° 0	1°10	14°31	26°50	17°38	18°39	5° 7	10°21	T 17
F 18	21 47 0	25°18'34	2≈47	10°16	27°16	12°45	8°28	13° 3	1°11	14°30	26°52	17°34	18°36	5°13	10°23	F 18
S 19	21 50 56	26°16'23	14°57	12° 1	28°28	13°23	8°24	13° 6	1°12	14°28	26°53	17°31	18°33	5°20	10°25	S 19
S 20	21 54 53	27°14'14	27°16	13°49	29°40	14° 2	8°20	13°10	1°13	14°27	26°55	17°29	18°30	5°27	10°27	S 20
M21	21 58 49	28°12'06	9 <b>)</b> (46	15°40	0 <b>ჲ</b> 52	14°40	8°16	13°13	1°14	14°25	26°56	17°28	18°27	5°34	10°29	M21
T 22	22 2 46	29°10'00	22°28	17°33	2° 4	15°18	8°11	13°16	1°15	14°24	26°57	17°D28	18°23	5°40	10°31	T 22
W23	22 6 42	0 mg 7'55	5 <b>Υ</b> 23	19°27	3°16	15°56	8° 6	13°20	1°15	14°22	26°59	17°29	18°20	5°47	10°33	W23
T 24	22 10 39	1° 5'52	18°30	21°23	4°28	16°35	8° 2	13°24	1°16	14°20	27° 0	17°30	18°17	5°54	10°35	T 24
F 25	22 14 36	2° 3'51	1852	23°20	5°40	17°13	7°57	13°27	1°17	14°19	27° 2	17°31	18°14	6° 0	10°37	F 25
S 26	22 18 32	3° 1'52	15°29	25°17	6°52	17°52	7°51	13°31	1°17	14°17	27° 3	17°32	18°11	6° 7	10°38	S 26
S 27	22 22 29	3°59'55	29°20	27°15	8° 4	18°30	7°46	13°35	1°18	14°16	27° 5	17°R33	18° 8	6°14	10°40	S 27
M28	22 26 25	4°58'00	13Ⅱ26	29°13	9°16	19° 9	7°41	13°39	1°18	14°14	27° 6	17°32	18° 4	6°21	10°41	M28
T 29	22 30 22	5°56'07	27°44	1 mp 10	10°28	19°47	7°35	13°43	1°19	14°12	27° 7	17°32	18° 1	6°27	10°43	T 29
W30	22 34 18	6°54'16	129513	3° 7	11°40	20°26	7°29	13°47	1°19	14°11	27° 9	17°31	17°58	6°34	10°44	W30
T 31	22 38 15	7 <b>m</b> 52'27	269947	5Mp 4	12 <b>≏</b> 51	21 Mp 4	7 <b>Ƴ</b> 23	13 <b>M</b> 51	1 <b>I</b> I19	14 <b>米</b> 9	279510	17 <b>米</b> 30	17 <b>∺</b> 55	6 <b>ප</b> 41	10 <b>Ⅱ</b> 45	T 31

Day	0	D	ğ	Q	♂	4	ħ	)Å(	卉	В	v	υ ţ	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
T 1 W 2 T 3	17 47	28 28 5 0	18n 5 3s20 18 19 3 5	9 54 1 23 1	1 33 1 3	2n15 1s29 2 15 1 29 2 14 1 29	13 27 2 15	20n10 0s11 20 11 0 11	6 57 1 4		4 s41 4 43	4s10 28s26 4 11 28 26	17 41 4 19
F 4 S 5	17 16	23 16 3 42	18 33 2 49 18 45 2 33 18 57 2 16	8 56 1 21 1	-	2 14 1 29 2 14 1 30 2 13 1 30	13 29 2 14	20 11 0 11 20 11 0 11 20 12 0 11	6 58 1 4 6 58 1 4 6 59 1 4	23 49 2 59	4 46 4 48 4 49	4 12 28 25 4 14 28 25 4 15 28 25	17 41 4 20
S 6 M 7 T 8 W 9 T 10 F 11	16 27 16 10 15 52 15 35	5 40 0 9 0s56 1s 5 7 17 2 14 13 8 3 14	19 7 2 0 19 16 1 43 19 23 1 27 19 29 1 10 19 32 0 54 19 33 0 39	7 29 1 16 1 6 59 1 14 1 6 29 1 12 5 59 1 10	0 22 1 1	2 11 1 31 2 10 1 31 2 9 1 31 2 8 1 31	13 31 2 13 13 32 2 13 13 33 2 13 13 34 2 13	20 12 0 11 20 12 0 11 20 13 0 11 20 13 0 11 20 13 0 11 20 13 0 11	7 0 1 4 7 0 1 4 7 1 1 4 7 1 1 4 7 2 1 5 7 2 1 5	23 49 2 59 23 49 3 0 23 48 3 0 23 48 3 0	4 50 4 50 4 50 4 50 4 49 4 49	4 16 28 24 4 17 28 24 4 19 28 23 4 20 28 23 4 21 28 22 4 22 28 22	17 41 4 21 17 41 4 21 17 41 4 21 17 41 4 22
S 12 S 13 M14 T 15 W16 T 17 F 18	14 59 14 41 14 23 14 4 13 45 13 26	22 32 4 40 25 46 5 3 27 50 5 13 28 36 5 9 28 3 4 52 26 12 4 23	19 32 0 24 19 29 0 9 19 23 0n 4 19 14 0 17 19 3 0 30	4 58 1 6 4 28 1 4 3 57 1 2 3 27 1 0 2 56 0 58 2 25 0 55	9 9 1 0 8 54 0 59 8 40 0 59 8 25 0 58 8 10 0 58 7 55 0 58 7 40 0 57	2 5 1 32 2 4 1 32 2 2 1 32 2 1 1 33 1 59 1 33	13 36 2 12 13 37 2 12 13 38 2 12 13 39 2 11 13 40 2 11 13 41 2 11	20 14 0 11 20 14 0 11 20 14 0 11 20 14 0 11 20 15 0 11	7 3 1 5	23 48 3 0 23 47 3 0	4 49 4 49 4 50 4 51 4 52 4 54 4 55	4 23 28 21 4 25 28 21 4 26 28 20 4 27 28 20 4 28 28 19 4 30 28 19 4 31 28 18	17 41 4 23 17 41 4 23 17 41 4 23 17 41 4 24 17 41 4 24 17 41 4 25
S 19 S 20 M21 T 22 W23	12 47 12 27 12 7 11 47 11 27	19 5 2 49 14 9 1 49	18 12 1 1 17 49 1 10 17 24 1 18	1 23 0 51 0 52 0 48 0 21 0 46 0 0 10 0 43	7 25 0 57 7 10 0 56 6 55 0 56 6 39 0 56 6 24 0 55	1 54 1 34 1 52 1 34 1 50 1 34 1 48 1 34	13 44 2 10 13 45 2 10 13 46 2 10 13 47 2 10	20 15 0 11 20 15 0 11 20 16 0 11 20 16 0 11 20 16 0 11		23 46 3 1 23 46 3 1 23 46 3 1	4 56 4 57 4 58 4 58 4 57	4 32 28 18 4 33 28 17 4 35 28 17 4 36 28 16 4 37 28 16	17 40 4 25 17 40 4 26 17 40 4 26 17 40 4 27
T 24 F 25 S 26		9 47 2 43 15 36 3 41 20 46 4 28	15 20 1 39	1 44 0 35	6 9 0 55 5 54 0 55 5 38 0 54	1 42 1 35	13 51 2 9	20 16 0 11	7 10 1 5 7 11 1 5 7 12 1 5	23 45 3 1	4 57 4 56 4 56	4 38 28 15 4 40 28 14 4 41 28 14	17 39 4 28
S 27 M28 T 29 W30 T 31	9 42 9 21 9 0	28 39 5 11 27 41 4 47	13 26 1 46 12 45 1 47	3 17 0 26 3 48 0 23 4 19 0 20	5 23 0 54 5 7 0 53 4 52 0 53 4 36 0 52 4n21 0n52	1 35 1 36 1 33 1 36 1 30 1 36	13 55 2 8 13 57 2 8 13 58 2 8	20 16 0 11 20 16 0 11 20 17 0 11 20 17 0 11 20n17 0s11	7 12 1 5 7 13 1 5 7 13 1 5 7 14 1 5 7 s15 1s 5	23 45 3 2 23 45 3 2	4 56 4 56 4 56 4 57 4 s57	4 42 28 13 4 43 28 13 4 45 28 12 4 46 28 11 4 s47 28 s11	17 39 4 29 17 39 4 30 17 38 4 30

Julian Day Number = 2338532.5, Delta T = 18.14 sec Ecliptic obliquity = 23°28'55, Nutation =  $0^{\circ}00'04$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}25'16$ , Lahiri =  $19^{\circ}32'16$ Greg. Calendar

SEPTEMBER 1690 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	¥	Р	ß	Ω	Ç	ķ	Day
F 1	22 42 11	8 <b>m</b> 50'40	11 <b>Ω</b> 21	7 <b>m</b> ) 0	14 <u>₽</u> 3	21 m/43	7°R17	13 <b>M</b> 55	1 <b>II</b> 20	14°R 7	279511	17°R29	17 <b>)</b> 52	6 <b>ප</b> 47	10 <b>Ⅱ</b> 47	F 1
S 2	22 46 8	9°48'55	25°50	8°55	15°15	22°22	7 <b>Υ</b> 11	13°59	1°20	14 <b>)</b> 6	27°13	17 <b>)</b> 28	17°49	6°54	10°48	S 2
S 3	22 50 5	10°47'11	10 <b>m</b> ) 8	10°50	16°27	23° 0	7° 5	14° 4	1°20	14° 4	27°14	17°27	17°45	7° 1	10°49	S 3
M 4	22 54 1	11°45'30	24° 9	12°43	17°38	23°39	6°58	14° 8	1°20	14° 2	27°15	17°D27	17°42	7° 8	10°50	M 4
T 5	22 57 58	12°43'50	7 <b>₽</b> 51	14°35	18°50	24°18	6°51	14°13	1°20	14° 1	27°16	17°28	17°39	7°14	10°51	T 5
W 6	23 1 54	13°42'12	21°10	16°27	20° 1	24°57	6°45	14°17	1°R20	13°59	27°18	17°28	17°36	7°21	10°52	W 6
T 7	23 5 51	14°40'35	4M 8	18°17	21°13	25°35	6°38	14°22	1°20	13°57	27°19	17°28	17°33	7°28	10°53	T 7
F 8	23 9 47	15°39'00	16°46	20° 6	22°24	26°14	6°31	14°27	1°20	13°56	27°20	17°29	17°29	7°34	10°53	F 8
S 9	23 13 44	16°37'27	29° 6	21°54	23°36	26°53	6°24	14°31	1°20	13°54	27°21	17°29	17°26	7°41	10°54	S 9
S 10	23 17 40	17°35'55	11713	23°41	24°47	27°32	6°17	14°36	1°20	13°53	27°22	17°29	17°23	7°48	10°55	S 10
M11	23 21 37	18°34'26	23°11	25°27	25°58	28°11	6° 9	14°41	1°20	13°51	27°24	17°29	17°20	7°55	10°55	M11
T 12	23 25 34	19°32'57	5 <b>る</b> 4	27°12	27°10	28°50	6° 2	14°46	1°19	13°49	27°25	17°29	17°17	8° 1	10°56	T 12
W13	23 29 30	20°31'31	16°57	28°56	28°21	29°29	5°55	14°51	1°19	13°48	27°26	17°29	17°14	8° 8	10°56	W13
T 14	23 33 27	21°30'06	28°55	0 <b>ჲ</b> 39	29°32	0 <b>호</b> 8	5°47	14°56	1°19	13°46	27°27	17°29	17°10	8°15	10°56	T 14
F 15	23 37 23	22°28'43	11≈ 1	2°21	0 <b>M</b> .43	0°47	5°39	15° 1	1°18	13°44	27°28	17°30	17° 7	8°21	10°56	F 15
S 16	23 41 20	23°27'21	23°18	4° 1	1°54	1°26	5°32	15° 7	1°18	13°43	27°29	17°31	17° 4	8°28	10°57	S 16
S 17	23 45 16	24°26'02	5 <b>) (</b> 49	5°41	3° 5	2° 5	5°24	15°12	1°17	13°41	27°30	17°31	17° 1	8°35	10°R57	S 17
M18	23 49 13	25°24'44	18°36	7°20	4°16	2°45	5°16	15°17	1°17	13°39	27°31	17°R31	16°58	8°42	10°57	M18
T 19	23 53 9	26°23'28	1 <b>Y</b> 38	8°58	5°27	3°24	5° 8	15°23	1°16	13°38	27°32	17°31	16°54	8°48	10°57	T 19
W20	23 57 6	27°22'14	14°57	10°35	6°38	4° 3	5° 0	15°28	1°15	13°36	27°33	17°30	16°51	8°55	10°56	W20
T 21	0 1 2	28°21'03	28°30	12°10	7°49	4°42	4°52	15°34	1°15	13°35	27°34	17°29	16°48	9° 2	10°56	T 21
F 22	0 4 59	29°19'53	12 <b>8</b> 15	13°45	8°59	5°22	4°44	15°39	1°14	13°33	27°35	17°27	16°45	9° 8	10°56	F 22
S 23	0 8 56	<b>02</b> 18'46	26°11	15°20	10°10	6° 1	4°36	15°45	1°13	13°31	27°36	17°26	16°42	9°15	10°55	S 23
S 24	0 12 52	1°17'41	10 <b>Ⅱ</b> 14	16°53	11°20	6°40	4°28	15°51	1°12	13°30	27°37	17°25	16°39	9°22	10°55	S 24
M25	0 16 49	2°16'39	24°23	18°25	12°31	7°20	4°20	15°57	1°11	13°28	27°37	17°24	16°35	9°29	10°55	M25
T 26	0 20 45	3°15'39	8935	19°57	13°41	7°59	4°12	16° 2	1°10	13°27	27°38	17°D24	16°32	9°35	10°54	T 26
W27	0 24 42	4°14'41	22°48	21°27	14°52	8°39	4° 4	16° 8	1° 9	13°25	27°39	17°24	16°29	9°42	10°53	W27
T 28	0 28 38	5°13'45	$7\Omega$ 0	22°57	16° 2	9°18	3°56	16°14	1°8	13°24	27°40	17°26	16°26	9°49	10°53	T 28
F 29	0 32 35	6°12'52	21° 7	24°26	17°12	9°58	3°48	16°20	1° 7	13°22	27°41	17°27	16°23	9°55	10°52	F 29
S 30	0 36 31	7 <b>₽</b> 12'01	5Mm, 8	25 <b>≏</b> 54	18 <b>M</b> 23	10 <b>≏</b> 37	3 <b>Ƴ</b> 40	16M26	1 <b>II</b> 6	13 <b>∺</b> 21	279541	17 <b>∺</b> 28	16 <b>∺</b> 20	10중 2	10 <b>Ⅲ</b> 51	S 30

Day	0	D	ğ		2	ď	2	+	ŧ	ì	)į	β(	¥	Р	n	v	Ç	Š
	decl	decl lat	decl	lat decl	lat	decl lat	decl	lat	decl	lat	decl	lat	decl lat	decl lat	decl	decl	decl	decl lat
F 1	8n16	20n24 3n	7 10n35	1n45 5s21	0n14 4	n 5 0n52	2 1n25	1 s37	14s 1	2n 7	20n17	0s11	7s15 1s :	5 <b>23</b> n44 3n 2	4 s57	-	28 s 10	
S 2	7 54	14 46 1 5	7 9 50	1 43 5 51	0 10 3	49 0 5	1 22	1 37	14 2	2 7	20 17	0 11	7 16 1 3	5 23 44 3 2	4 58	4 50	28 10	17 38 4 31
S 3	7 32	8 24 0 4		1 41 6 22	0 7 3	34 0 5		1 37			20 17			5 23 44 3 2		4 51		17 37 4 32
M 4	7 10	1 45 0 s3		1 38 6 52				1 37	14 5	2 7	20 17	0 11	7 17 1 :			4 52		17 37 4 32
T 5 W 6	6 48 6 25	4s49 1 5 11 0 2 5		1 35 7 23 1 31 7 53				1 37 1 37	14 7 14 9	2 7 2 6		0 11 0 11	7 18 1 : 7 19 1 :	5 23 44 3 3 5 23 43 3 3		4 53 4 55		17 37 4 33 17 36 4 33
T 7	6 3	16 32 3 5		1 27 8 23				1 38	-			0 11	7 19 1 .		4 57	4 56		17 36 4 34
F 8	5 40			1 22 8 53		15 0 49		1 38	-	2 6		0 11	7 20 1 3			4 57		17 36 4 34
S 9	5 17	24 53 5	1 4 24	1 17 9 23	0 13 1	59 0 48	1 3	1 38	14 13	2 6	20 17	0 11	7 21 1 :	5 23 43 3 3	4 57	4 58	28 5	17 35 4 34
S 10	4 55	27 22 5 1	5 3 37	1 12 9 52	0 16 1	43 0 48	1 0	1 38	14 15	2 6	20 17	0 11	7 21 1 3	5 23 43 3 3	4 57	5 0	28 4	17 35 4 35
M11	4 32	28 33 5 1	5 2 50	1 7 10 21	0 20 1	27 0 47	0 57	1 38	14 17	2 5	20 17	0 11	7 22 1 :	5 23 43 3 3	4 57	5 1	28 3	17 35 4 35
T 12	4 9		2 2 3	1 1 10 51		11 0 47		1 38		2 5		0 11		5 23 43 3 3		5 2		17 34 4 36
W13	3 46		-	0 55 11 19		55 0 47		1 38	-	2 5		0 11		5 23 43 3 4	,	5 3		17 34 4 36
T 14 F 15	3 23		8 0 29 9 0s17	0 49 11 48 0 42 12 17		39 0 40		1 38		2 5 2 5		0 11		5 23 43 3 4 5 23 42 3 4	4 57	5 5 5 6		17 33 4 37 17 33 4 37
S 16	2 39	20 31 3	0017	0 36 12 45				1 39	_	2 4		-		5 23 42 3 4	4 57	5 7		17 33 4 37
S 17			4 1 49	0 29 13 13		s 9 0 45	-	1 39	-	2 4				5 23 42 3 4	4 56		27 59	
M18	1 50	-		0 29 13 13		25 0 4		1 39		2 4				5 23 42 3 4			27 58	
T 19	1 26	1n50 1 1	-	0 15 14 7		41 0 44		1 39	_	2 4			7 27 1		4 57	5 11		17 31 4 39
W20	1 3	8 9 2 2	6 4 4	0 8 14 34	0 52 0	57 0 44	0 29	1 39	14 32	2 4			7 28 1 3	5 23 42 3 5	4 57	5 12	27 56	17 31 4 39
T 21	0 39	14 11 3 2	8 4 48	0 1 15 1	0 56 1	13 0 43	0 26	1 39	14 34	2 3	20 16	0 11	7 28 1 3	5 23 42 3 5	4 57	5 13	27 56	17 30 4 40
F 22		19 38 4 1		0s 6 15 27				1 39		2 3				5 23 42 3 5			27 55	
S 23	0s 7	24 6 4 5	4 6 15	0 13 15 53	1 3 1	45 0 42	0 19	1 39	14 37	2 3	20 15	0 11	7 29 1 :	5 23 42 3 5	4 58	5 16	27 54	17 29 4 41
S 24		27 11 5 1		0 20 16 19	· .			1 39		2 3				5 23 42 3 5			27 53	
M25	0 54			0 28 16 44	1 10 2			1 39		2 3				5 23 42 3 5			27 52	
T 26	1 18		_	0 35 17 9		33 0 4	0 10	1 39	14 43	2 3		0 11		5 23 42 3 5			27 52	
W27 T 28	1 41	25 47 4 1 21 52 3 2		0 42 17 34 0 49 17 58		49 0 40		1 39	14 44 14 46	2 2 2		0 11 0 11	7 32 1 3 7 32 1 3	5 23 42 3 5 5 23 42 3 6	4 59 5 4 59		27 51 27 50	
F 29	2 28	-		0 49 17 38	_	21 0 39		1 39	-	2 2		0 11		5 23 42 3 6		-	27 49	
S 30	2 s52		7 11s 1	1s 4 18s45		s37 0n39			-		20n14	-		5 23n42 3n 6		-	27 s48	

Julian Day Number = 2338563.5, Delta T = 18.10 sec Ecliptic obliquity =  $23^{\circ}28'56$ , Nutation =  $0^{\circ}00'05$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}25'20$ , Lahiri =  $19^{\circ}32'21$ Greg. Calendar

OCTOBER 1690 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	并	В	R	Ω	Ç	ķ	Day
S 1	0 40 28	8₽11'12	18 <b>m</b> )59	27 <b>₽</b> 21	19 <b>M</b> _33	11 <b>≏</b> 17	3°R32	16ML32	1°R 5	13°R19	279342	17°R28	16 <b>)</b> 16	10 <b>ට</b> 9	10°R50	S 1
M 2	0 44 25	9°10'26	2 <u>~</u> 39	28°47	20°43	11°57	3 <b>Υ</b> 24	16°38	1 <b>I</b> I 4	13 <b>)</b> 18	27°43	17 <b>)</b> (28	16°13	10°16	10 <b>Ⅱ</b> 49	M 2
T 3	0 48 21	10° 9'41	16° 4	0ML12	21°53	12°36	3°16	16°45	1° 2	13°16	27°44	17°26	16°10	10°22	10°48	T 3
W 4	0 52 18	11° 8'58	29°13	1°36	23° 3	13°16	3°8	16°51	1° 1	13°15	27°44	17°23	16° 7	10°29	10°47	W 4
T 5	0 56 14	12° 8'18	12 <b>M</b> 4	3° 0	24°13	13°56	3° 0	16°57	0°59	13°14	27°45	17°19	16° 4	10°36	10°45	T 5
F 6	1 0 11	13° 7'39	24°39	4°22	25°23	14°36	2°52	17° 3	0°58	13°12	27°45	17°15	16° 0	10°42	10°44	F 6
S 7	1 4 7	14° 7'03	6 <b>₹</b> 159	5°43	26°32	15°16	2°45	17°10	0°57	13°11	27°46	17°11	15°57	10°49	10°43	S 7
S 8	1 8 4	15° 6'28	19° 6	7° 4	27°42	15°56	2°37	17°16	0°55	13°10	27°46	17° 7	15°54	10°56	10°41	S 8
M 9	1 12 0	16° 5'55	1る 4	8°23	28°51	16°35	2°29	17°23	0°54	13° 8	27°47	17° 5	15°51	11° 2	10°40	M 9
T 10	1 15 57	17° 5'24	12°56	9°41	0 <b>∡</b> 1	17°15	2°22	17°29	0°52	13° 7	27°48	17°D 4	15°48	11° 9	10°38	T 10
W11	1 19 54	18° 4'55	24°48	10°57	1°10	17°55	2°14	17°36	0°50	13° 6	27°48	17° 4	15°45	11°16	10°36	W11
T 12	1 23 50	19° 4'27	6≈45	12°12	2°19	18°36	2° 7	17°42	0°49	13° 4	27°48	17° 5	15°41	11°23	10°35	T 12
F 13	1 27 47	20° 4'01	18°51	13°26	3°29	19°16	2° 0	17°49	0°47	13° 3	27°49	17° 7	15°38	11°29	10°33	F 13
S 14	1 31 43	21° 3'37	1 <b>)</b> (11	14°38	4°38	19°56	1°52	17°55	0°45	13° 2	27°49	17° 8	15°35	11°36	10°31	S 14
S 15	1 35 40	22° 3'14	13°49	15°49	5°46	20°36	1°45	18° 2	0°43	13° 1	27°50	17°R 9	15°32	11°43	10°29	S 15
M16	1 39 36	23° 2'54	26°48	16°57	6°55	21°16	1°38	18° 9	0°42	12°59	27°50	17° 9	15°29	11°49	10°27	M16
T 17	1 43 33	24° 2'35	10 <b>Y</b> 8	18° 3	8° 4	21°56	1°31	18°15	0°40	12°58	27°50	17° 7	15°26	11°56	10°25	T 17
W18	1 47 29	25° 2'18	23°50	19° 7	9°13	22°37	1°25	18°22	0°38	12°57	27°51	17° 3	15°22	12° 3	10°23	W18
T 19	1 51 26	26° 2'04	7 <b>8</b> 50	20° 9	10°21	23°17	1°18	18°29	0°36	12°56	27°51	16°57	15°19	12°10	10°21	T 19
F 20	1 55 23	27° 1'51	22° 5	21° 8	11°29	23°57	1°12	18°36	0°34	12°55	27°51	16°51	15°16	12°16	10°19	F 20
S 21	1 59 19	28° 1'41	6П29	22° 3	12°38	24°38	1° 5	18°42	0°32	12°54	27°51	16°45	15°13	12°23	10°16	S 21
S 22	2 3 16	29° 1'32	20°55	22°56	13°46	25°18	0°59	18°49	0°30	12°53	27°52	16°39	15°10	12°30	10°14	S 22
M23	2 7 12	OM 1'26	5920	23°44	14°54	25°58	0°53	18°56	0°28	12°52	27°52	16°35	15° 6	12°36	10°12	M23
T 24	2 11 9	1° 1'22	19°38	24°29	16° 2	26°39	0°47	19° 3	0°26	12°51	27°52	16°32	15° 3	12°43	10° 9	T 24
W25	2 15 5	2° 1'21	3 <b>Ω</b> 47	25° 8	17° 9	27°20	0°41	19°10	0°24	12°50	27°52	16°D32	15° 0	12°50	10° 7	W25
T 26	2 19 2	3° 1'21	17°45	25°43	18°17	28° 0	0°35	19°17	0°22	12°49	27°52	16°32	14°57	12°57	10° 4	T 26
F 27	2 22 58	4° 1'24	1 <b>m</b> 32	26°12	19°24	28°41	0°30	19°24	0°19	12°48	27°52	16°34	14°54	13° 3	10° 1	F 27
S 28	2 26 55	5° 1'29	15° 8	26°34	20°32	29°21	0°25	19°31	0°17	12°47	27°52	16°R34	14°51	13°10	9°59	S 28
S 29	2 30 52	6° 1'36	28°34	26°50	21°39	OM 2	0°19	19°38	0°15	12°46	27°R52	16°34	14°47	13°17	9°56	S 29
M30	2 34 48	7° 1'45	11 <b>≏</b> 48	26°R57	22°46	0°43	0°14	19°45	0°13	12°46	27°52	16°31	14°44	1 <u>3</u> °23	9°53	M30
T 31	2 38 45	8M 1'55	24 <b>≏</b> 51	26M57	23 <b>×</b> 753	1 <b>M</b> 24	0 <b>Υ</b> 10	19 <b>M</b> .52	0 <b>Ⅱ</b> 11	12 <b>)</b> 45	27952	16 <b>∺</b> 25	14 <b>)</b> (41	13 <b>云</b> 30	9∏50	T 31

Day	0	D	ğ	·	♂ <sup>1</sup>	4	ħ	)Å(	¥	Р	n	v t	Š,
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl dec	decl lat
S 1 M 2 T 3 W 4 T 5 F 6 S 7 S 8 M 9	5 12	2s19 1 23 8 39 2 31 14 29 3 29 19 33 4 16 23 38 4 49 26 34 5 8 28 14 5 13	12 53 1 2 13 30 1 3 14 5 1 3 14 39 1 4 15 13 1 5 15 46 1 5	8 19 30 1 35 5 19 52 1 39 2 20 13 1 42 9 20 34 1 46	3 s53		14 54 2 2 14 56 2 2 14 58 2 1 14 59 2 1 15 1 2 1 15 3 2 1 15 5 2 1		7s34 1s 5 7 35 1 5 7 35 1 5 7 36 1 5 7 36 1 5 7 37 1 5 7 37 1 5 7 38 1 5 7 38 1 5	23 42 3 6 23 42 3 6 23 42 3 7 23 42 3 7 23 42 3 7 23 42 3 7	4 s 5 8 4 5 8 4 5 9 5 0 5 1 5 3 5 4 5 6 5 7		5 17 25 4 45 5 17 24 4 45 4 17 23 4 45 4 17 23 4 46 8 17 22 4 46 2 17 22 4 47
T 10 W11 T 12 F 13 S 14 S 15	6 43 7 6 7 29 7 51	27 32 4 42 25 16 4 8 21 53 3 23 17 33 2 28	16 48 2 1 17 18 2 1 17 47 2 2 18 14 2 2 18 41 2 3	1 22 11 2 3 6 22 29 2 6 2 22 46 2 9	6 16 0 34 6 32 0 34 6 47 0 33 7 3 0 33 7 19 0 32 7 34 0 32	0 34 1 38 0 37 1 38 0 40 1 38 0 42 1 38 0 45 1 38 0 48 1 38	15 9 2 1 15 11 2 0 15 13 2 0 15 15 2 0 15 17 2 0	20 11 0 11 20 11 0 11 20 10 0 11 20 10 0 11 20 10 0 11	7 39 1 5 7 39 1 5 7 40 1 5 7 40 1 5 7 41 1 5	23 42 3 7 23 42 3 8 23 42 3 8 23 42 3 8 23 42 3 8 23 42 3 8	5 7 5 7 5 7 5 6 5 5	5 37 27 39 5 38 27 38	9 17 20 4 48 3 17 19 4 48 7 17 19 4 49 5 17 18 4 49 5 17 17 4 49
M16 T 17 W18 T 19 F 20 S 21	8 58 9 21 9 43 10 4	0 28 0n52 5n53 2 2 12 9 3 6 17 56 4 0 22 50 4 41	19 30 2 4 19 53 2 4 20 15 2 4 20 34 2 5 20 53 2 5	11 23 49 2 21 5 24 4 2 24 9 24 17 2 27 2 24 30 2 30	7 50 0 31 8 5 0 31 8 21 0 30 8 36 0 30 8 51 0 29 9 7 0 29	0 50 1 38 0 53 1 38 0 56 1 37 0 58 1 37 1 1 1 37	15 21 2 0 15 23 2 0 15 25 2 0 15 27 2 0	20 9 0 11 20 9 0 11 20 8 0 11 20 8 0 11 20 7 0 11	7 41 1 5 7 42 1 5 7 42 1 5 7 43 1 5 7 43 1 5 7 44 1 5	23 42 3 8 23 42 3 8 23 43 3 9 23 43 3 9 23 43 3 9	5 5 5 6 5 7 5 10 5 12	5 44 27 33 5 45 27 33 5 47 27 3 5 48 27 36 5 49 27 29 5 50 27 28	3 17 16 4 50 2 17 15 4 51 1 7 15 4 51 1 7 14 4 51 0 17 13 4 52
S 22 M23 T 24 W25 T 26 F 27 S 28	11 30 11 51 12 12 12 32	28 15 4 53 26 19 4 19 22 45 3 30 17 54 2 29 12 12 1 20	21 49 2 5 21 58 2 5 22 5 2 5 22 9 2 5	9 25 16 2 40 9 25 26 2 42 8 25 35 2 45	10 23 0 26 10 38 0 26	1 8 1 37 1 10 1 36 1 12 1 36 1 14 1 36	15 36 1 59 15 38 1 59 15 40 1 59 15 42 1 59	20 6 0 11 20 6 0 11 20 5 0 11 20 5 0 11 20 4 0 11	7 44 1 5 7 44 1 5 7 45 1 5 7 45 1 5 7 45 1 5 7 46 1 5 7 46 1 5	23 43 3 9 23 43 3 9 23 43 3 10 23 43 3 10 23 44 3 10	5 18 5 19 5 20 5 19 5 19	5 51 27 2 5 53 27 2 5 54 27 2 5 55 27 2 5 56 27 2 5 58 27 2 5 59 27 2	5 17 11 4 53 5 17 10 4 53 4 17 10 4 54 8 17 9 4 54 17 8 4 54
S 29 M30 T 31	13 33 13 53 14 s13	6 41 2 11		5 26 6 2 53 9 26 12 2 55 1 26 s17 2 s 56	11 22 0 24	1 22 1 35	15 46 1 59 15 48 1 59 15 s50 1n58		7 46 1 5 7 47 1 5 7 s47 1 s 5	23 44 3 10	5 19 5 20 5 s22	6 0 27 19 6 1 27 18 6s 2 27s1	17 6 4 55

Julian Day Number = 2338593.5, Delta T = 18.06 sec Ecliptic obliquity = 23°28'56, Nutation =  $0^{\circ}00'04$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}25'24$ , Lahiri =  $19^{\circ}32'25$ Greg. Calendar

NOVEMBER 1690 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)Å(	并	В	n	v	Ç	ķ	Day
W 1	2 42 41	9M 2'08	7 <b>M</b> .42	26°R48	24 <b>×</b> 759	2M 5	0°R 5	19 <b>M</b> .59	0°R 8	12°R44	27°R52	16°R18	14 <b>)</b> 38	13 <b>云</b> 37	9°R47	W 1
T 2	2 46 38	10° 2'23	20°21	26M29	26° 6	2°45	0Υ 0	20° 6	0 <b>I</b> 6	12 <b>) (</b> 43	27952	16 <b>∀</b> 8	14°35	13°43	9 <b>Ⅱ</b> 45	T 2
F 3	2 50 34	11° 2'39	2 <b>₹</b> 48	26° 1	27°12	3°26	29 <b>米</b> 56	20°13	0° 4	12°43	27°52	15°57	14°31	13°50	9°42	F 3
S 4	2 54 31	12° 2'57	15° 2	25°22	28°18	4° 7	29°52	20°20	0° 1	12°42	27°52	15°47	14°28	13°57	9°39	S 4
S 5	2 58 27	13° 3'17	27° 6	24°34	29°24	4°48	29°48	20°27	29859	12°41	27°51	15°37	14°25	14° 4	9°35	S 5
M 6	3 2 24	14° 3'38	9ਰ 1	23°37	0 <b>궁</b> 30	5°29	29°44	20°34	29°56	12°41	27°51	15°29	14°22	14°10	9°32	M 6
T 7	3 6 21	15° 4'01	20°52	22°31	1°35	6°10	29°41	20°42	29°54	12°40	27°51	15°23	14°19	14°17	9°29	T 7
W 8	3 10 17	16° 4'25	2≈42	21°19	2°40	6°52	29°38	20°49	29°52	12°40	27°51	15°20	14°16	14°24	9°26	W 8
T 9	3 14 14	17° 4'51	14°35	20° 1	3°46	7°33	29°34	20°56	29°49	12°39	27°51	15°D19	14°12	14°30	9°23	T 9
F 10	3 18 10	18° 5'18	26°38	18°41	4°50	8°14	29°31	21° 3	29°47	12°39	27°50	15°19	14° 9	14°37	9°20	F 10
S 11	3 22 7	19° 5'46	8 <b></b> ₩56	17°20	5°55	8°55	29°29	21°10	29°44	12°38	27°50	15°R20	14° 6	14°44	9°16	S 11
S 12	3 26 3	20° 6'15	21°33	16° 2	6°59	9°36	29°26	21°17	29°42	12°38	27°50	15°20	14° 3	14°51	9°13	S 12
M13	3 30 0	21° 6'46	<b>4</b> Υ35	14°49	8° 3	10°18	29°24	21°24	29°39	12°38	27°49	15°18	14° 0	14°57	9°10	M13
T 14	3 33 56	22° 7'18	18° 3	13°44	9° 7	10°59	29°22	21°32	29°37	12°37	27°49	15°14	13°57	15° 4	9° 6	T 14
W15	3 37 53	23° 7'51	1 <b>8</b> 58	12°48	10°11	11°40	29°20	21°39	29°34	12°37	27°48	15° 7	13°53	15°11	9° 3	W15
T 16	3 41 50	24° 8'26	16°18	12° 2	11°14	12°22	29°18	21°46	29°32	12°37	27°48	14°58	13°50	15°17	8°59	T 16
F 17	3 45 46	25° 9'03	0 <b>Ⅱ</b> 58	11°27	12°17	13° 3	29°16	21°53	29°29	12°36	27°47	14°47	13°47	15°24	8°56	F 17
S 18	3 49 43	26° 9'41	15°50	11° 5	13°19	13°45	29°15	22° 0	29°27	12°36	27°47	14°36	13°44	15°31	8°52	S 18
S 19	3 53 39	27°10'20	09345	10°D53	14°21	14°26	29°14	22° 7	29°24	12°36	27°46	14°26	13°41	15°37	8°49	S 19
M20	3 57 36	28°11'01	15°33	10°53	15°23	15° 8	29°13	22°14	29°22	12°36	27°46	14°18	13°37	15°44	8°45	M20
T 21	4 1 32	29°11'44	oΩ 9	11° 4	16°25	15°50	29°12	22°21	29°19	12°36	27°45	14°13	13°34	15°51	8°42	T 21
W22	4 5 29	0 <b>҂</b> 12'28	14°28	11°24	17°26	16°31	29°12	22°29	29°17	12°36	27°45	14°10	13°31	15°58	8°38	W22
T 23	4 9 25	1°13'14	28°27	11°54	18°27	17°13	29°12	22°36	29°14	12°36	27°44	14°D 9	13°28	16° 4	8°35	T 23
F 24	4 13 22	2°14'01	12Mp 7	12°31	19°27	17°55	29°D12	22°43	29°12	12°D36	27°43	14°R 9	13°25	16°11	8°31	F 24
S 25	4 17 19	3°14'49	25°29	13°15	20°27	18°37	29°12	22°50	29° 9	12°36	27°43	14° 9	13°22	16°18	8°28	S 25
S 26	4 21 15	4°15'40	8 <b>≙</b> 37	14° 6	21°27	19°19	29°12	22°57	29° 7	12°36	27°42	14° 7	13°18	16°24	8°24	S 26
M27	4 25 12	5°16'31	21°31	15° 2	22°26	20° 1	29°13	23° 4	29° 4	12°36	27°41	14° 2	13°15	16°31	8°20	M27
T 28	4 29 8	6°17'24	4 <b>M</b> .13	16° 3	23°25	20°42	29°13	23°11	29° 2	12°36	27°41	13°54	13°12	16°38	8°17	T 28
W29	4 33 5	7°18'19	16°46	17° 8	24°23	21°24	29°14	23°18	28°59	12°36	27°40	13°43	13° 9	16°44	8°13	W29
T 30	4 37 1	8 <b>~</b> 19'14	29M 9	18 <b>M</b> 17	25 <b>중</b> 21	22M 6	29 <b>米</b> 15	23M25	28 <b>8</b> 57	12 <b>)</b> 36	27939	13 <b>)</b> 30	13 <b>)</b> 6	16 <b>ප</b> 51	8 <b>I</b> I 9	T 30

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	decl	decl lat	decl	lat dec	l lat	decl la	at	decl	lat	decl	lat	decl	lat	decl lat	dec	lat	decl	decl	decl	decl	lat
W 1	14 s32	17 s52 3 s5	9 21 s47	2 s 2 2 2 6 s 2	1 2 s 5 8	11 s52	0n23	1 s25	1 s35	15 s52	1n58	20n 2	0s11	7 s47 1 s	5 23n4	4 3n11	5 s25	6s 4	27s16	17n 5	4 s 5 6
T 2	14 51	22 16 4 3	5 21 32	2 11 26 2	5 3 0	12 6	0 22	1 26	1 34	15 54	1 58	20 2	0 11	7 47 1	5 23 4	4 3 11	5 29	6 5	27 15	17 4	4 56
F 3	15 10	25 36 4 5	7 21 13	1 59 26 2	8 3 1	12 21	0 22	1 28	1 34	15 56	1 58	20 1	0 11	7 48 1	5 23 4	5 3 11	5 33	6 6	27 14	17 3	4 56
S 4	15 29	27 41 5	4 20 50	1 45 26 3	1 3 2	12 35	0 21	1 29	1 34	15 58	1 58	20 1	0 11	7 48 1	4 23 4	5 3 11	5 37	6 7	27 12	17 3	4 57
S 5	15 47	28 25 4 5	8 20 23	1 29 26 3	2 3 4	12 49	0 21	1 31	1 34	16 0	1 58	20 0	0 11	7 48 1	4 23 4	5 3 11	5 41	6 9	27 11	17 2	4 57
M 6	16 5	27 49 4 3	9 19 52	1 12 26 3	3 3 5	13 4	0 20	1 32	1 33	16 2	1 58	20 0	0 11	7 48 1	4 23 4	5 3 11	5 44	6 10	27 10	17 1	4 57
T 7	16 23	25 57 4	9 19 18	0 53 26 3	4 3 6	13 18	0 20	1 33	1 33	16 4	1 58	19 59	0 11	7 48 1	4 23 4	5 3 12	5 46	6 11	27 9	17 0	4 58
W 8	16 41	22 57 3 2	7 18 40	0 34 26 3	4 3 6	13 32	0 19	1 34	1 33	16 6	1 58	19 59	0 11	7 49 1	4 23 4	6 3 12	5 47	6 12	27 8	17 0	4 58
T 9	16 58	18 59 2 3	6 17 59	0 13 26 3	3 7	13 46	0 19	1 35	1 33	16 7	1 58	19 58	0 11	7 49 1	4 23 4	6 3 12	5 48	6 14	27 7	16 59	4 58
F 10		_					0 18	1 36	1 32			19 58		7 49 1	4 23 4			6 15		16 58	4 58
S 11	17 32	8 46 0 3	4 16 36	0 28 26 2	9 3 8	14 13	0 17	1 37	1 32	16 11	1 58	19 57	0 11	7 49 1	4 23 4	6 3 12	5 47	6 16	27 4	16 57	4 59
S 12	17 48	2 51 0n3	3 15 54	0 48 26 2	6 3 8	14 27	0 17	1 38	1 32	16 13	1 58	19 56	0 11	7 49 1	4 23 4	6 3 12	5 47	6 17	27 3	16 57	4 59
M13	18 4	3n22 1 4	1 15 15	1 6 26 2	2 3 9	14 41	0 16	1 38	1 32	16 15	1 58	19 56	0 11	7 49 1	4 23 4	7 3 12	5 48	6 18		16 56	4 59
T 14	18 20	9 37 2 4				-	0 16	1 39	1 31	16 17		19 55		7 49 1	4 23 4		5 50				4 59
W15		15 38 3 4		1 39 26 1			0 15	1 40	1 31	16 19	1 58			7 50 1	4 23 4		5 52		26 59		5 0
T 16		20 58 4 2		1 52 26		-	0 15	1 40	1 31	16 21	1 58			7 50 1	4 23 4		5 56		26 58		5 0
F 17			3 13 20				0 14	1 40				19 54		7 50 1	4 23 4		6 0		26 57		5 0
S 18	19 20	27 43 5	1 13 4	2 13 25 5	5 3 7	15 47	0 13	1 41	1 30	16 24	1 58	19 53	0 11	7 50 1	4 23 4	8 3 13	6 4	6 25	26 56	16 52	5 0
S 19	19 34	28 18 4 4	9 12 54	2 20 25 4	8 3 6	16 0	0 13	1 41	1 30	16 26	1 58	19 53	0 11	7 50 1	4 23 4	8 3 13	6 8	6 26	26 54	16 52	5 0
M20			8 12 49				0 12	1 41	1 30			19 52		7 50 1	4 23 4	-	-		26 53		5 1
T 21	-		0 12 48				0 12	1 41				19 52		7 50 1	4 23 4		-		26 52		5 1
	20 14		0 12 53				0 11	1 41	1 29			19 51		7 50 1	4 23 4				26 50		5 1
	20 26			2 32 25 1			0 11	1 41	1 29			19 51		7 50 1	4 23 4		6 15		26 49		5 1
F 24	20 39	7 12 0 1					0 10	1 41	1 29	16 35		19 50		7 50 1	4 23 4		6 15		26 48		5 1
S 25	20 51	0 53 1s	0 13 27	2 30 24 5	2 2 58	17/15	0 9	1 40	1 28	16 37	1 58	19 50	0 11	7 50 1	4 23 5	0 3 14	6 15	6 33	26 46	16 47	5 1
S 26	21 2		5 13 45				0 9	1 40	1 28			19 49		7 50 1	4 23 5		6 16		26 45		5 2
M27	21 13	_	3 14 5				0 8	1 39	1 28	16 41		19 48		7 50 1	4 23 5		6 18		26 44		5 2
_			1 14 26				0 8	1 39	1 27	-		19 48		7 50 1	4 23 5		-		26 43		5 2
	21 34	-			-		0 7	1 38	1 27	-		19 47		7 49 1	4 23 5		6 25		26 41		5 2
T 30	21 s44	24 s43 4 s5	0 15s14	2n10 23 s5	0 2 s47	18 s14	0n 6	1 s37	1 s27	16 s46	1n58	19n47	0s11	7 s 49 1 s	4 23n5	1 3n15	6 s 3 0	6 s 3 9	26 s40	16n44	5 s 2

 $\label{eq:Julian Day Number = 2338624.5, Delta T = 18.03 sec} \\ Ecliptic obliquity = 23°28'55, Nutation = 0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°25'29, Lahiri = 19°32'29Greg. Calendar$ 

DECEMBER 1690 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)f(	卉	Р	n	v	Ç	ķ	Day
F 1	4 40 58	9 <b>~</b> 120'11	11 🗷 23	19ML29	26 <b>궁</b> 18	22 <b>M</b> 49	29 <b>米</b> 17	23 <b>M</b> 32	28°R54	12 <b>)</b> 37	27°R38	13°R15	13 <b>)</b> 3	16 <b>る</b> 58	8°R 6	F 1
S 2	4 44 54	10°21'09	23°29	20°44	27°15	23°31	29°18	23°39	28 <b>8</b> 52	12°37	27937	13 <b>∺</b> 0	12°59	17° 5	8 <b>I</b> I 2	S 2
S 3	4 48 51	11°22'07	5 <b>ਰ</b> 27	22° 1	28°11	24°13	29°20	23°46	28°49	12°37	27°37	12°46	12°56	17°11	7°59	S 3
M 4	4 52 48	12°23'07	17°20	23°20	29° 7	24°55	29°22	23°53	28°47	12°38	27°36	12°35	12°53	17°18	7°55	M 4
T 5	4 56 44	13°24'07	29° 8	24°40	0≈ 2	25°37	29°24	24° 0	28°44	12°38	27°35	12°26	12°50	17°25	7°51	T 5
W 6	5 0 41	14°25'08	10≈57	26° 3	0°57	26°20	29°27	24° 7	28°42	12°38	27°34	12°20	12°47	17°31	7°48	W 6
T 7	5 4 37	15°26'09	22°48	27°26	1°51	27° 2	29°29	24°13	28°40	12°39	27°33	12°16	12°43	17°38	7°44	T 7
F 8	5 8 34	16°27'11	4 <b>) (</b> 48	28°51	2°44	27°44	29°32	24°20	28°37	12°39	27°32	12°15	12°40	17°45	7°41	F 8
S 9	5 12 30	17°28'13	17° 1	0 <b>∡</b> 17	3°36	28°27	29°35	24°27	28°35	12°40	27°31	12°15	12°37	17°51	7°37	S 9
S 10	5 16 27	18°29'16	29°33	1°43	4°28	29° 9	29°38	24°34	28°32	12°40	27°30	12°15	12°34	17°58	7°33	S 10
M11	5 20 24	19°30'20	12 <b>Y</b> 29	3°10	5°19	29°52	29°42	24°40	28°30	12°41	27°29	12°13	12°31	18° 5	7°30	M11
T 12	5 24 20	20°31'23	25°53	4°38	6° 9	0 <b>∡</b> ³34	29°45	24°47	28°28	12°42	27°28	12° 9	12°28	18°12	7°26	T 12
W13	5 28 17	21°32'27	9 <b>8</b> 48	6° 7	6°59	1°17	29°49	24°54	28°26	12°42	27°27	12° 3	12°24	18°18	7°23	W13
T 14	5 32 13	22°33'32	24°12	7°36	7°47	1°59	29°53	25° 0	28°23	12°43	27°26	11°53	12°21	18°25	7°19	T 14
F 15	5 36 10	23°34'37	9 <b>Ⅱ</b> 2	9° 5	8°35	2°42	29°57	25° 7	28°21	12°44	27°25	11°42	12°18	18°32	7°16	F 15
S 16	5 40 6	24°35'43	24°10	10°35	9°22	3°25	0 <b>Υ</b> 2	25°14	28°19	12°44	27°24	11°31	12°15	18°38	7°12	S 16
S 17	5 44 3	25°36'49	9 <b>9</b> 25	12° 5	10° 7	4° 7	0° 6	25°20	28°17	12°45	27°23	11°20	12°12	18°45	7° 9	S 17
M18	5 47 59	26°37'55	24°36	13°35	10°52	4°50	0°11	25°27	28°15	12°46	27°22	11°11	12° 9	18°52	7° 6	M18
T 19	5 51 56	27°39'02	9 <b>Ω</b> 34	15° 6	11°36	5°33	0°16	25°33	28°13	12°47	27°21	11° 5	12° 5	18°58	7° 2	T 19
W20	5 55 53	28°40'10	24°11	16°37	12°18	6°16	0°21	25°39	28°10	12°48	27°19	11° 2	12° 2	19° 5	6°59	W20
T 21	5 59 49	2 <u>9°</u> 41'18	8 <b>m</b> 23	18° 9	13° 0	6°59	0°26	25°46	28° 8	12°49	27°18	11°D 1	11°59	19°12	6°56	T 21
F 22	6 3 46	0 <b>3</b> 42'27	22°10	19°41	13°40	7°42	0°32	25°52	28° 6	12°50	27°17	11° 1	11°56	19°19	6°53	F 22
S 23	6 7 42	1°43'36	5 <b>₾</b> 33	21°13	14°19	8°25	0°38	25°58	28° 4	12°51	27°16	11°R 1	11°53	19°25	6°49	S 23
S 24	6 11 39	2°44'46	18°35	22°45	14°57	9° 8	0°43	26° 5	28° 2	12°52	27°15	11° 0	11°49	19°32	6°46	S 24
M25	6 15 35	3°45'56	1 <b>M</b> .19	24°18	15°34	9°51	0°49	26°11	28° 0	12°53	27°14	10°57	11°46	19°39	6°43	M25
T 26	6 19 32	4°47'07	13°49	25°51	16° 9	10°34	0°56	26°17	27°59	12°54	27°12	10°50	11°43	19°45	6°40	T 26
W27	6 23 28	5°48'18	26° 7	27°24	16°43	11°17	1° 2	26°23	27°57	12°55	27°11	10°41	11°40	19°52	6°37	W27
T 28	6 27 25	6°49'29	8 <b>∡</b> 17	28°58	17°15	12° 0	1° 8	26°29	27°55	12°56	27°10	10°30	11°37	19°59	6°34	T 28
F 29	6 31 22	7°50'41	2 <u>0</u> °20	0 <b>궁</b> 32	17°46	12°43	1°15	26°35	27°53	12°57	27° 9	10°18	11°34	20° 5	6°31	F 29
S 30	6 35 18	8°51'52	2 <b>ਰ</b> 17	2° 6	18°15	13°27	1°22	26°41	27°51	12°58	27° 7	10° 5	11°30	20°12	6°28	S 30
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Julian Day Number = 2338654.5, Delta T = 17.99 sec Ecliptic obliquity = 23°28'54, Nutation =  $0^\circ00'04$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^\circ25'33$ , Lahiri =  $19^\circ32'33$ Greg. Calendar