

# Astrodienst Ephemeris Tables for the year 1669

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 1669 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	并	В	n	v	Ç	ķ	Day
T 1	6 44 28	11 <b>궁</b> 14'57	20 <b>×</b> 23	18 <b>∡</b> ³34	28 <b>M</b> 13	1 <b>)</b> 14	2°R26	11≈53	29≈35	25 <b>~</b> 344	29°R32	18°R33	16 <b>8</b> 53	259 5	1 <b>米</b> 29	T 1
W 2	6 48 25	12°16'09	5 <b>云</b> 29	19°18	29°23	2° 1	2 <b>Ⅲ</b> 21	11°59	29°37	25°47	29耳31	18827	16°50	25°12	1°32	W 2
T 3	6 52 21	13°17'21	20°47	20° 6	0 <b>∡</b> 34	2°47	2°17	12° 6	29°40	25°49	29°29	18°19	16°47	25°19	1°35	T 3
F 4	6 56 18	14°18'32	6≈ 4	20°59	1°44	3°33	2°12	12°12	29°43	25°51	29°28	18°10	16°43	25°25	1°38	F 4
S 5	7 0 14	15°19'43	21°11	21°55	2°55	4°19	2° 8	12°19	29°45	25°53	29°27	18° 1	16°40	25°32	1°41	S 5
S 6	7 4 11	16°20'54	5 <b>¥</b> 57	22°55	4° 6	5° 5	2° 4	12°26	29°48	25°56	29°26	17°53	16°37	25°39	1°44	S 6
M 7	7 8 7	17°22'03	20°17	23°58	5°17	5°51	2° 0	12°33	29°51	25°58	29°25	17°48	16°34	25°45	1°47	M 7
T 8	7 12 4	18°23'12	4 <b>Υ</b> 9	25° 4	6°28	6°37	1°57	12°39	29°54	26° 0	29°24	17°45	16°31	25°52	1°50	T 8
W 9	7 16 0	19°24'21	17°32	26°12	7°39	7°23	1°53	12°46	29°56	26° 2	29°22	17°D44	16°28	25°59	1°53	W 9
T 10	7 19 57	20°25'28	0 <b>8</b> 31	27°22	8°50	8° 9	1°50	12°53	29°59	26° 5	29°21	17°44	16°24	26° 6	1°57	T 10
F 11	7 23 54	21°26'35	13° 9	28°34	10° 2	8°55	1°47	13° 0	0 <b>米</b> 2	26° 7	29°20	17°R45	16°21	26°12	2° 0	F 11
S 12	7 27 50	22°27'41	25°30	29°48	11°13	9°41	1°44	13° 7	0° 5	26° 9	29°19	17°44	16°18	26°19	2° 3	S 12
S 13	7 31 47	23°28'46	7П39	1පි 4	12°25	10°27	1°42	13°14	0° 8	26°11	29°18	17°42	16°15	26°26	2° 6	S 13
M14	7 35 43	24°29'51	19°40	2°21	13°36	11°13	1°39	13°21	0°11	26°14	29°17	17°38	16°12	26°32	2°10	M14
T 15	7 39 40	25°30'54	1935	3°39	14°48	11°59	1°37	13°28	0°14	26°16	29°16	17°30	16° 9	26°39	2°13	T 15
W16	7 43 36	26°31'57	13°28	4°59	16° 0	12°45	1°35	13°35	0°17	26°18	29°15	17°20	16° 5	26°46	2°16	W16
T 17	7 47 33	27°32'59	25°20	6°20	17°11	13°31	1°33	13°42	0°20	26°21	29°14	17° 7	16° 2	26°53	2°20	T 17
F 18	7 51 29	28°34'01	$7\Omega$ 12	7°42	18°23	14°16	1°32	13°49	0°23	26°23	29°13	16°53	15°59	26°59	2°23	F 18
S 19	7 55 26	29°35'01	19° 7	9° 5	19°35	15° 2	1°31	13°56	0°26	26°25	29°12	16°39	15°56	27° 6	2°27	S 19
S 20	7 59 23	0≈36'01	1 Mp 4	10°29	20°47	15°48	1°29	14° 3	0°29	26°27	29°11	16°26	15°53	27°13	2°30	S 20
M21	8 3 19	1°37'00	13° 7	11°54	21°59	16°34	1°28	14°10	0°32	26°30	29°10	16°15	15°49	27°19	2°34	M21
T 22	8 7 16	2°37'58	25°16	13°19	23°11	17°19	1°28	14°17	0°35	26°32	29° 9	16° 7	15°46	27°26	2°37	T 22
W23	8 11 12	3°38'56	7 <b>Ω</b> 36	14°46	24°23	18° 5	1°27	14°24	0°38	26°34	29° 8	16° 1	15°43	27°33	2°41	W23
T 24	8 15 9	4°39'53	20°10	16°14	25°36	18°51	1°27	14°31	0°42	26°36	29° 7	15°59	15°40	27°40	2°45	T 24
F 25	8 19 5	5°40'49	3M 2	17°42	26°48	19°36	1°D27	14°38	0°45	26°39	29° 6	15°D58	15°37	27°46	2°48	F 25
S 26	8 23 2	6°41'44	16°15	19°11	28° 0	20°22	1°27	14°45	0°48	26°41	29° 5	15°R58	15°34	27°53	2°52	S 26
S 27	8 26 58	7°42'39	29°54	20°41	29°13	21° 8	1°27	14°53	0°51	26°43	29° 4	15°57	15°30	28° 0	2°55	S 27
M28	8 30 55	8°43'33	14 <b>×7</b> 0	22°12	0 <b>궁</b> 25	21°53	1°27	15° 0	0°54	26°45	29° 3	15°55	15°27	28° 6	2°59	M28
T 29	8 34 52	9°44'26	28°34	23°43	1°38	22°39	1°28	15° 7	0°58	26°48	29° 2	15°50	15°24	28°13	3° 3	T 29
W30	8 38 48	10°45'19	13 <b>조</b> 31	25°15	2°50	23°24	1°29	15°14	1° 1	26°50	29° 1	15°43	15°21	28°20	3° 7	W30
T 31	8 42 45	11≈46′10	28 <b>궁</b> 45	26 <b>පි</b> 48	4 <b>る</b> 3	24 <b>米</b> 10	1 <b>II</b> 30	15≈21	1 <b>)</b> 4	26 <b>궁</b> 52	29耳 0	15 <b>8</b> 32	15 <b>8</b> 18	28927	3 <b>∺</b> 10	T 31

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T 1 W 2	23 s 0 22 55			n21 17 s22 2n2		19n58 0 s44 3 19 58 0 43			20 s41 0n22 20 40 0 22		17n23 1			5 s 57 5 n 2 2 5 5 6 5 2 2
T 3 F 4	22 49	26 20 4 31	21 3 2	4 17 55 2 2	6 11 23 0 57	19 57 0 43 5 19 56 0 43	18 6 0 56	12 18 0 44	20 40 0 22 20 40 0 22	18 30 4 59	17 19 1 17 16 1	16 53 <mark>2</mark>	25 49	5 55 5 21 5 55 5 21
S 5	22 36	19 16 5 4	21 28 1	46 18 27 2 2	3 10 48 0 56	19 56 0 43	18 2 0 56	12 16 0 44	20 39 0 22	18 30 4 59	17 14	16 51 2	25 47	5 54 5 21
S 6 M 7	22 29 22 21	7 48 4 18	21 53 1	37 18 42 2 2 28 18 57 2 1	9 10 13 0 54		17 59 0 56	12 14 0 44	20 39 0 22 20 38 0 22	18 30 4 59	17 12 17 10	16 49 <mark>2</mark>	25 45	5 53 5 20 5 52 5 20
T 8 W 9 T 10	22 13 22 5	4n32 2 34	22 17 1		9 37 0 52	19 54 0 42	17 55 0 57	12 12 0 44	20 38 0 22 20 38 0 22 20 37 0 23	18 30 4 59	17 9	16 48 2 16 47 2	25 43	5 51 5 20 5 51 5 20 5 50 5 10
F 11 S 12	21 56 21 46 21 37	15 25 0 25		51 19 51 2 1	9 1 0 50	19 53 0 41		12 10 0 44	20 37 0 22 20 37 0 22 20 36 0 22	18 31 4 58	17 9	16 46 2 16 46 2 16 45 2	25 41	5 50 5 19 5 49 5 19 5 48 5 19
S 13 M14 T 15 W16 T 17 F 18	21 16 21 5 20 53 20 41 20 29	25 45 2 41 26 59 3 33 26 57 4 10 25 41 4 39 23 17 4 50	23 3 0 23 10 0 23 15 0 23 20 08 5 23 24 0	25 20 26 2 16 20 37 2 8 20 47 1 5 8 0 20 57 1 5 8 21 6 1 5	3 8 7 0 48 1 7 48 0 47 8 7 30 0 46 5 7 12 0 45 3 6 53 0 45	7 19 52 0 40 5 19 52 0 40 5 19 52 0 40 5 19 52 0 40	17 45 0 57 17 43 0 57 17 41 0 57 17 39 0 57 17 37 0 57	12 7 0 44 12 6 0 44 12 5 0 44 12 4 0 44 12 2 0 44	20 35 0 21 20 34 0 21 20 34 0 21	18 31 4 58 18 31 4 58 18 31 4 58 18 31 4 58 18 31 4 58	17 7 1 17 5 1 17 2 1 16 59 1 16 55	16 39 <mark>2</mark>	25 38 25 37 25 36 25 35 25 34	5 47 5 19 5 46 5 18 5 45 5 18 5 44 5 18 5 43 5 18 5 42 5 18
S 19 S 20 M21 T 22 W23 T 24 F 25 S 26	20 4 19 50 19 36 19 22 19 8 18 53	15 38 4 51 10 47 4 29 5 27 3 54 0s 9 3 8 5 52 2 12 11 29 1 8	23 28 0 23 28 0 23 27 0 3 23 25 0 2 23 21 0 3 23 17 0	16 21 15 1 5 24 21 23 1 4 31 21 30 1 4 38 21 37 1 4 45 21 43 1 3 52 21 49 1 3 58 21 54 1 3 5 21 59 1 3	7 6 16 0 43 4 5 58 0 42 1 5 39 0 41 9 5 20 0 40 6 5 2 0 40 3 4 43 0 35	3 19 51 0 39 2 19 52 0 39 19 52 0 39 19 52 0 38 19 52 0 38 19 52 0 38	17 29 0 57 17 27 0 57 17 25 0 57 17 23 0 57	12 0 0 44 11 59 0 44 11 58 0 44 11 57 0 44 11 56 0 44 11 55 0 44	20 33 0 21 20 33 0 21 20 32 0 21 20 32 0 21 20 31 0 21 20 31 0 21	18 31 4 57 18 32 4 57	16 51 1 16 47 1 16 44 1 16 40 1 16 39 1 16 39 1 16 39 1	16 37 2 16 36 2 16 35 2 16 35 2 16 34 2 16 33 2	25 32 25 31 25 30 25 29 25 28 25 27	5 41 5 17 5 40 5 17 5 39 5 17 5 38 5 17 5 37 5 16 5 36 5 16 5 35 5 16 5 33 5 16
S 27 M28 T 29 W30 T 31	18 7 17 51 17 34	26 53 3 24 27 1 4 14	2 22 54 1 4 22 44 1 4 22 33 1	11 22 2 1 2 16 22 6 1 2 22 22 8 1 2 27 22 10 1 1 s32 22s12 1n1	3 3 47 0 36 0 3 28 0 35 7 3 9 0 35	5 19 53 0 37 5 19 53 0 37 5 19 54 0 37	17 17 0 57 17 15 0 57 17 13 0 58	11 51 0 44 11 50 0 44 11 49 0 44	20 30 0 21 20 30 0 21 20 29 0 21 20 29 0 21 20 29 0 21 20 28 0n21	18 32 4 56 18 32 4 56 18 33 4 56	16 39 1 16 38 1 16 37 1 16 34 1 16n31 1	16 30 2 16 29 2 16 28 2	25 23 25 22 25 21	5 32 5 16 5 31 5 16 5 30 5 15 5 29 5 15 5 s28 5n15

Julian Day Number = 2330650.5, Delta T = 30.38 sec Ecliptic obliquity =  $23^{\circ}29'02$ , Nutation = -  $0^{\circ}00'12$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}07'12$ , Lahiri =  $19^{\circ}14'13$ Greg. Calendar

#### FEBRUARY 1669 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)f(	并	В	r	v	Ç	Ŗ	Day
F 1	8 46 41	12≈47'00	14≈ 5	28 <b>중</b> 22	5 <b>る</b> 16	24 <b>米</b> 55	1 <b>Ⅲ</b> 31	15≈29	1 <b>)</b> 8	26 <b>궁</b> 54	29°R 0	15°R21	15 <b>8</b> 15	28933	3 <b>∺</b> 14	F 1
S 2	8 50 38	13°47'49	29°19	29°57	6°28	25°40	1°33	15°36	1°11	26°57	28П59	15 <b>8</b> 9	15°11	28°40	3°18	S 2
S 3	8 54 34	14°48'36	14 <b>) (</b> 17	1≈32	7°41	26°26	1°34	15°43	1°14	26°59	28°58	14°58	15° 8	28°47	3°22	S 3
M 4	8 58 31	15°49'22	28°49	3° 8	8°54	27°11	1°36	15°50	1°18	27° 1	28°57	14°50	15° 5	28°53	3°26	M 4
T 5	9 2 27	16°50'06	12 <b>Y</b> 52	4°45	10° 7	27°57	1°38	15°57	1°21	27° 3	28°56	14°45	15° 2	29° 0	3°29	T 5
W 6	9 6 24	17°50'49	26°25	6°23	11°19	28°42	1°41	16° 5	1°24	27° 5	28°56	14°42	14°59	29° 7	3°33	W 6
T 7	9 10 21	18°51'30	9 <b>8</b> 30	8° 1	12°32	29°27	1°43	16°12	1°28	27° 7	28°55	14°42	14°55	29°14	3°37	T 7
F 8	9 14 17	19°52'09	22°10	9°41	13°45	0 <b>Υ</b> 12	1°46	16°19	1°31	27°10	28°54	14°42	14°52	29°20	3°41	F 8
S 9	9 18 14	20°52'46	<b>4Ⅱ</b> 30	11°21	14°58	0°57	1°49	16°26	1°34	27°12	28°53	14°41	14°49	29°27	3°45	S 9
S 10	9 22 10	21°53'22	16°37	13° 2	16°11	1°43	1°52	16°33	1°38	27°14	28°53	14°39	14°46	29°34	3°49	S 10
M11	9 26 7	22°53'56	28°33	14°44	17°24	2°28	1°55	16°41	1°41	27°16	28°52	14°34	14°43	29°40	3°53	M11
T 12	9 30 3	23°54'29	109525	16°27	18°37	3°13	1°58	16°48	1°45	27°18	28°52	14°27	14°40	29°47	3°57	T 12
W13	9 34 0	24°55'00	22°16	18°10	19°50	3°58	2° 2	16°55	1°48	27°20	28°51	14°16	14°36	29°54	4° 1	W13
T 14	9 37 56	25°55'28	4 <b>Ω</b> 7	19°55	21° 3	4°43	2° 6	17° 2	1°52	27°22	28°50	14° 4	14°33	oΩ 1	4° 5	T 14
F 15	9 41 53	26°55'56	16° 2	21°40	22°16	5°28	2°10	17° 9	1°55	27°24	28°50	13°50	14°30	0° 7	4° 9	F 15
S 16	9 45 50	27°56'21	28° 2	23°27	23°29	6°12	2°14	17°16	1°59	27°26	28°49	13°35	14°27	0°14	4°13	S 16
S 17	9 49 46	28°56'45	10 <b>m</b> ) 8	25°14	24°42	6°57	2°18	17°23	2° 2	27°28	28°49	13°22	14°24	0°21	4°17	S 17
M18	9 53 43	29°57'07	22°21	27° 3	25°55	7°42	2°23	17°31	2° 5	27°30	28°48	13°11	14°20	0°28	4°20	M18
T 19	9 57 39	0 <b>∺</b> 57'28	4 <b>≏</b> 42	28°52	27° 9	8°27	2°27	17°38	2° 9	27°32	28°48	13° 2	14°17	0°34	4°24	T 19
W20	10 1 36	1°57'47	17°12	0 <b>)</b> 42	28°22	9°12	2°32	17°45	2°12	27°34	28°47	12°56	14°14	0°41	4°28	W20
T 21	10 5 32	2°58'04	29°54	2°34	29°35	9°56	2°37	17°52	2°16	27°36	28°47	12°54	14°11	0°48	4°32	T 21
F 22	10 9 29	3°58'20	12 <b>M</b> 49	4°26	0≈48	10°41	2°43	17°59	2°19	27°38	28°46	12°D53	14° 8	0°54	4°36	F 22
S 23	10 13 25	4°58'35	26° 2	6°19	2° 1	11°26	2°48	18° 6	2°23	27°40	28°46	12°53	14° 5	1° 1	4°40	S 23
S 24	10 17 22	5°58'48	9 <b>~</b> 35	8°12	3°15	12°10	2°54	18°13	2°26	27°42	28°45	12°R53	14° 1	1° 8	4°44	S 24
M25	10 21 19	6°58'59	23°30	10° 7	4°28	12°55	2°59	18°20	2°30	27°44	28°45	12°52	13°58	1°15	4°48	M25
T 26	10 25 15	7°59'10	7 <b>궁</b> 47	12° 2	5°41	13°39	3° 5	18°27	2°33	27°46	28°45	12°49	13°55	1°21	4°52	T 26
W27	10 29 12	8°59'18	22°26	13°58	6°55	14°24	3°11	18°34	2°36	27°48	28°44	12°43	13°52	1°28	4°56	W27
T 28	10 33 8	9 <b>米</b> 59'25	7≈20	15 <b>)</b> 54	8≈ 8	15 <b>Y</b> 8	3耳18	18≈41	2 <b>)</b> (40	27 <b>る</b> 49	28∏44	12 <b>8</b> 35	13 <b>8</b> 49	1 <b>Ω</b> 35	5 <b>米</b> 0	T 28

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F 1	17s 0	21 s25	5s 0	22 s 6	1 s36	22 s12	1n11	2 s32	0 s33	19n55	0 s36	17s 9	0s58	11 s46	0 s44	20 s28	0n21	18n33	4s56	16n28	16n26	25n19	5 s 2 6	5n15
S 2	16 43	16 16	4 51	21 50	1 41	22 12	1 7	2 13	0 32	19 55	0 36	17 7	0 58	11 45	0 44	20 28	0 21	18 33	4 56	16 25	16 25	25 18	5 25	5 15
S 3	16 25	10 13	4 22	21 34	1 45	22 12	1 4	1 54	0 31	19 56	0 36	17 4	0 58	11 44	0 44	20 27	0 21	18 33	4 56	16 22	16 24	25 16	5 24	5 15
M 4	16 7	3 47	3 37	21 15	1 49	22 10	1 1	1 35	0 31	19 56	0 36	17 2	0 58	11 43	0 44	20 27	0 21	18 33	4 56	16 19	16 23	25 15	5 23	5 14
T 5	15 49	2n39	2 39	20 55	1 52	22 8	0 58	1 16	0 30	19 57	0 35	17 0	0 58	11 42	0 44	20 26	0 21	18 33	4 55	16 18	16 23	25 14	5 21	5 14
W 6	15 31	8 44	1 35	20 34	1 55	22 6	0 54	0 58	0 29	19 58	0 35	16 58	0 58	11 40	0 43	20 26	0 21	18 34	4 55	16 17	16 22	25 13	5 20	5 14
T 7	15 12	14 15	0 27	20 11	1 58	22 3	0 51	0 39	0 28	19 58	0 35	16 56	0 58	11 39	0 43	20 26	0 21	18 34	4 55	16 17	16 21	25 12	5 19	5 14
F 8	14 53	18 59	0n39	19 47	2 0	21 59	0 48	0 20	0 27	19 59	0 35	16 54	0 58	11 38	0 43	20 25	0 21	18 34	4 55	16 17	16 20	25 10	5 18	5 14
S 9	14 34	22 46	1 43	19 22	2 2	21 54	0 44	0 1	0 26	20 0	0 34	16 52	0 58	11 37	0 43	20 25	0 21	18 34	4 55	16 16	16 19	25 9	5 16	5 14
S 10	14 14	25 28	2 40	18 54	2 3	21 49	0 41	0n17	0 26	20 1	0 34	16 50	0 58	11 35	0 43	20 24	0 21	18 34	4 55	16 16	16 18	25 8	5 15	5 14
M11	13 55	26 58	3 29	18 26	2 5	21 43	0 38	0 36	0 25	20 2	0 34	16 48	0 58	11 34	0 43	20 24	0 21	18 34	4 55	16 14	16 17	25 7	5 14	5 14
T 12	13 35	27 13	4 9	17 56	2 5	21 37	0 35	0 55	0 24	20 3	0 34	16 46	0 58	11 33	0 43	20 23	0 21	18 34	4 54	16 12	16 16	25 5	5 13	5 13
W13	13 14	26 13	4 38	17 24	2 6	21 30	0 31	1 13	0 23	20 4	0 34	16 43	0 58	11 32	0 43	20 23	0 21	18 34	4 54	16 9	16 15	25 4	5 11	5 13
T 14	12 54	24 2	4 55	16 51	2 6	21 22	0 28	1 32	0 22	20 5	0 33	16 41	0 59	11 31	0 43	20 23	0 21	18 35	4 54	16 5	16 14	25 3	5 10	5 13
F 15	12 33	20 49	5 0	16 17	2 5	21 14	0 25	1 50	0 22	20 6	0 33	16 39	0 59	11 29	0 43	20 22	0 21	18 35	4 54	16 1	16 13	25 2	5 9	5 13
S 16	12 13	16 43	4 51	15 41	2 4	21 5	0 21	2 9	0 21	20 7	0 33	16 37	0 59	11 28	0 43	20 22	0 21	18 35	4 54	15 57	16 12	25 0	5 7	5 13
S 17	11 52	11 55	4 28	15 4	2 3	20 56	0 18	2 28	0 20	20 8	0 33	16 35	0 59	11 27	0 43	20 22	0 21	18 35	4 54	15 53	16 11	24 59	5 6	5 13
M18	11 31	6 37	3 54	14 25	2 1	20 45	0 15	2 46	0 19	20 9	0 32	16 33	0 59	11 26	0 43	20 21	0 21	18 35	4 54	15 49	16 10	24 58	5 5	5 13
T 19	11 9	1 0	3 8	13 45	1 59	20 35	0 12	3 4	0 19	20 10	0 32	16 31	0 59	11 24	0 43	20 21	0 21	18 35	4 53	15 47	16 9	24 57	5 3	5 13
W20	10 48	4 s44	2 12	13 3	1 56	20 23	0 9	3 23	0 18	20 11	0 32	16 29	0 59	11 23	0 43	20 20	0 21	18 36	4 53	15 45	16 8	24 55	5 2	5 13
T 21	10 26	10 23	1 8	12 20	1 52	20 11	0 5	3 41	0 17	20 12	0 32	16 27	0 59	11 22	0 43	20 20	0 21	18 36	4 53	15 44	16 7	24 54	5 0	5 13
F 22	10 4	15 43	0 0	11 35	1 49	19 59	0 2	3 59	0 16	20 13	0 32	16 25	0 59	11 21	0 43	20 20	0 21	18 36	4 53	15 44	16 7	24 53	4 59	5 13
S 23	9 42	20 25	1s 9	10 49	1 44	19 46	0 s 1	4 17	0 15	20 15	0 31	16 23	0 59	11 19	0 43	20 19	0 21	18 36	4 53	15 44	16 6	24 51	4 58	5 13
S 24	9 20	24 11	2 17	10 2	1 39	19 32	0 4	4 36	0 15	20 16	0 31	16 20	0 59	11 18	0 43	20 19	0 21	18 36	4 53	15 44	16 5	24 50	4 56	5 13
M25	8 58	26 37	3 18	9 14	1 33	19 18	0 7	4 54		20 17	0 31	16 18	1 0	11 17		20 18		18 36	4 52	15 44	16 4	24 49	4 55	5 13
T 26	8 35	27 24	4 9	8 24	1 27		0 10	5 12		20 19		16 16		11 16		20 18		18 36	4 52	15 43	16 3	24 47	4 54	5 12
W27		26 18	4 45	7 33	1 20		0 13	5 30		20 20		16 14		11 14		20 18				15 41		24 46	4 52	5 12
T 28	7 s50	23 s20	5 s 2		1 s13	18s31	0s16	5n48		20n21	0 s30	16s12	1s 0	11 s13		20s17		18n37	4 s 5 2	15n39	16n 1	24n45	4s51	5n12

Julian Day Number = 2330681.5, Delta T = 30.33 sec Ecliptic obliquity = 23°29'03, Nutation = -0°00'10, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}07'17$ , Lahiri =  $19^{\circ}14'17$ Greg. Calendar

MARCH 1669 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	并	В	₽.	ß	Ç	Ŗ	Day
F 1	10 37 5	10 <b>米</b> 59'30	22≈22	17 <b>米</b> 50	9≈21	15 <b>Y</b> 52	3Ⅲ24	18 <b>≈</b> 47	2 <b>) (</b> 43	27 <b>ට</b> 51	28°R44	12°R26	13846	1 <b>Ω</b> 41	5 <b>)</b> 4	F 1
S 2	10 41 1	11°59'34	7 <b>)</b> €24	19°47	10°35	16°37	3°30	18°54	2°47	27°53	28∏44	12816	13°42	1°48	5° 8	S 2
S 3	10 44 58	12°59'35	22°14	21°43	11°48	17°21	3°37	19° 1	2°50	27°55	28°43	12° 7	13°39	1°55	5°12	S 3
M 4	10 48 54	13°59'34	6 <b>Υ</b> 46	23°39	13° 2	18° 5	3°44	19° 8	2°54	27°56	28°43	12° 0	13°36	2° 2	5°16	M 4
T 5	10 52 51	14°59'32	20°52	25°34	14°15	18°49	3°51	19°15	2°57	27°58	28°43	11°56	13°33	2° 8	5°20	T 5
W 6	10 56 48	15°59'27	4 <b>8</b> 31	27°28	15°29	19°34	3°58	19°21	3° 0	28° 0	28°43	11°54	13°30	2°15	5°24	W 6
T 7	11 0 44	16°59'20	17°42	29°21	16°42	20°18	4° 5	19°28	3° 4	28° 1	28°43	11°D54	13°26	2°22	5°28	T 7
F 8	11 441	17°59'11	0∏28	1 <b>Υ</b> 12	17°55	21° 2	4°13	19°35	3° 7	28° 3	28°43	11°55	13°23	2°28	5°32	F 8
S 9	11 8 37	18°59'00	12°53	3° 1	19° 9	21°46	4°21	19°41	3°10	28° 5	28°43	11°56	13°20	2°35	5°36	S 9
S 10	11 12 34	19°58'47	25° 2	4°47	20°22	22°30	4°28	19°48	3°14	28° 6	28°42	11°R56	13°17	2°42	5°39	S 10
M11	11 16 30	20°58'31	<i>7</i> 95 1	6°31	21°36	23°14	4°36	19°54	3°17	28° 8	28°42	11°54	13°14	2°49	5°43	M11
T 12	11 20 27	21°58'13	18°53	8°10	22°49	23°57	4°44	20° 1	3°20	28° 9	28°D42	11°50	13°11	2°55	5°47	T 12
W13	11 24 23	22°57'52	0 <b>Ω</b> 44	9°46	24° 3	24°41	4°52	20° 7	3°24	28°11	28°42	11°45	13° 7	3° 2	5°51	W13
T 14	11 28 20	23°57'30	12°37	11°16	25°16	25°25	5° 1	20°14	3°27	28°12	28°42	11°37	13° 4	3° 9	5°55	T 14
F 15	11 32 17	24°57'05	24°36	12°42	26°30	26° 9	5° 9	20°20	3°30	28°14	28°43	11°28	13° 1	3°16	5°59	F 15
S 16	11 36 13	25°56'38	6 <b>m</b> 43	14° 3	27°43	26°53	5°18	20°27	3°34	28°15	28°43	11°19	12°58	3°22	6° 2	S 16
S 17	11 40 10	26°56'09	18°58	15°17	28°57	27°36	5°26	20°33	3°37	28°17	28°43	11°11	12°55	3°29	6° 6	S 17
M18	11 44 6	27°55'38	1 <b>≏</b> 25	16°26	0 <b>₩</b> 10	28°20	5°35	20°39	3°40	28°18	28°43	11° 4	12°52	3°36	6°10	M18
T 19	11 48 3	28°55'04	14° 1	17°28	1°24	29° 3	5°44	20°45	3°43	28°19	28°43	10°59	12°48	3°42	6°14	T 19
W20	11 51 59	29°54'29	26°50	18°23	2°37	29°47	5°53	20°51	3°46	28°21	28°43	10°56	12°45	3°49	6°17	W20
T 21	11 55 56	<b>0℃</b> 53'52	9 <b>M</b> .49	19°11	3°51	0 <b>8</b> 30	6° 2	20°58	3°50	28°22	28°43	10°D55	12°42	3°56	6°21	T 21
F 22	11 59 52	1°53'13	23° 2	19°52	5° 4	1°14	6°12	21° 4	3°53	28°23	28°44	10°56	12°39	4° 3	6°25	F 22
S 23	12 3 49	2°52'32	6 <b>₹</b> 27	20°25	6°18	1°57	6°21	21°10	3°56	28°25	28°44	10°57	12°36	4° 9	6°28	S 23
S 24	12 7 46	3°51'50	20° 6	20°51	7°31	2°40	6°30	21°16	3°59	28°26	28°44	10°58	12°32	4°16	6°32	S 24
M25	12 11 42	4°51'06	4궁 0	21° 9	8°45	3°24	6°40	21°22	4° 2	28°27	28°44	10°R59	12°29	4°23	6°36	M25
T 26	12 15 39	5°50'20	18° 8	21°20	9°58	4° 7	6°50	21°27	4° 5	28°28	28°45	10°58	12°26	4°29	6°39	T 26
W27	12 19 35	6°49'32	2≈29	21°R24	11°12	4°50	7° 0	21°33	4° 8	28°29	28°45	10°56	12°23	4°36	6°43	W27
T 28	12 23 32	7°48'43	17° 0	21°21	12°25	5°33	7°10	21°39	4°11	28°30	28°45	10°53	12°20	4°43	6°46	T 28
F 29	12 27 28	8°47'51	1 <b>米</b> 36	21°11	13°39	6°16	7°20	21°45	4°14	28°31	28°46	10°48	12°17	4°50	6°50	F 29
S 30	12 31 25	9°46'58	16°11	20°54	14°53	6°59	7°30	21°50	4°17	28°32	28°46	10°43	12°13	4°56	6°53	S 30
S 31	12 35 21	10 <b>Y</b> 46'03	0 <b>Υ</b> 39	20 <b>Y</b> 31	16 <b>¥</b> 6	7 <b>8</b> 42	7 <b>Ⅱ</b> 40	21≈56	4 <b>)</b> €20	28 <b>궁</b> 33	28∏46	10839	12810	5 <b>N</b> 3	6 <b>¥</b> 57	S 31

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F 1 S 2	7 s27 7 5	18 s47 4 s59 13 4 4 35		ls 5 18s15 0s1 0 56 17 58 0 2		1 20n23 0 s30 0 20 24 0 30			20s17 0n21 20 17 0 21		15n36 16n 15 33 15		4s49 5n12 4 48 5 12
S 3 M 4 T 5 W 6 T 7	6 42 6 19 5 55 5 32 5 9	0 0 2 56 6n28 1 50 12 26 0 39	3 6 0 2 11 0		7 6 58 0 0 7 16 0 3 7 33 0	9 20 26 0 30 9 20 27 0 30 8 20 29 0 29 7 20 30 0 29 6 20 32 0 29	16 4 1 0 16 2 1 0 16 0 1 0	11 8 0 43 11 7 0 44 11 6 0 44	20 16 0 21	18 37 4 51 18 38 4 51 18 38 4 51	15 30 15 15 28 15 15 27 15 15 26 15 15 26 15	57 24 39 56 24 38 55 24 36	4 46 5 12 4 45 5 12 4 44 5 12 4 42 5 12 4 41 5 12
F 8 S 9		21 53 1 38	0n35 01	On 7 16 6 0 3 On 19 15 45 0 4	8 8 8 0	6 20 32 0 29 6 20 33 0 29 5 20 35 0 29	15 56 1 1	11 3 0 44	20 15 0 21 20 15 0 21 20 14 0 21	18 38 4 51	15 26 15 15 26 15 15 27 15	53 24 34	4 39 5 12 4 38 5 12
S 10 M11 T 12 W13 T 14 F 15 S 16	2 48 2 24 2 1	27 30 4 12 26 49 4 43 24 56 5 1	3 16 0 4 7 0 4 57 1 5 44 1 6 29 1		6 8 59 0 8 9 16 0 1 9 33 0 3 9 50 0 5 10 6 0	4 20 37 0 28 3 20 38 0 28 3 20 40 0 28 2 20 42 0 28 1 20 43 0 28 1 20 45 0 27 0 20 47 0 27	15 50 1 1 15 48 1 1 15 46 1 1 15 44 1 1 15 42 1 1	11 0 0 44 10 59 0 44 10 57 0 44 10 56 0 44 10 55 0 44	20 14 0 21 20 14 0 21 20 13 0 21 20 12 0 21	18 39 4 50 18 39 4 50 18 39 4 50 18 39 4 50 18 39 4 49	15 27 15 15 26 15 15 25 15 15 23 15 15 21 15 15 18 15 15 15 15	50 24 29 49 24 28 48 24 26 47 24 25 47 24 24	4 37 5 12 4 35 5 12 4 34 5 12 4 32 5 12 4 31 5 13 4 29 5 13 4 28 5 13
S 17 M18 T 19 W20 T 21 F 22 S 23		19 37 1s 5	8 30 2 9 4 2 9 35 2 10 2 2 10 26 2	2 12 12 24 1 2 23 11 59 1 2 33 11 35 1 2 43 11 10 1 2 52 10 45 1	2 10 55 0 4 11 12 0 6 11 28 0 7 11 44 0 9 11 59 0	1 20 48 0 27 2 20 50 0 27 2 20 52 0 27 3 20 54 0 27 4 20 55 0 26 4 20 57 0 26 5 20 59 0 26	15 37 1 2 15 35 1 2 15 33 1 2 15 31 1 2 15 29 1 2	10 52 0 44 10 50 0 44 10 49 0 44 10 48 0 44 10 47 0 44		18 40 4 49 18 40 4 49 18 40 4 49 18 40 4 48 18 40 4 48	15 8 15 15 8 15 15 8 15		4 24 5 13
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	1 32 1 56 2 19 2 43 3 6 3 30 3 53 4n16	27 34 4 9 27 0 4 47 24 38 5 8 20 41 5 10 15 27 4 51 9 22 4 14	11 14 3 11 22 3 11 26 3 11 26 3 11 21 3 11 14 3	3 12 9 27 1 1 3 16 9 1 1 1 1 3 19 8 34 1 1 3 20 8 8 1 1 3 20 7 41 1 2 3 18 7 13 1 2	4 12 46 0 6 13 1 0 8 13 17 0 9 13 32 0 0 13 47 0 2 14 1 0 1	6 21 1 0 26 6 21 2 0 26 7 21 4 0 26 8 21 6 0 25 8 21 8 0 25 9 21 10 0 25 0 21 12 0 25 0 21n13 0 \$25	15 24 1 3 15 22 1 3 15 20 1 3 15 19 1 3 15 17 1 3 15 15 1 3	10 44 0 44 10 43 0 44 10 41 0 44 10 40 0 44 10 39 0 44 10 38 0 44	20 10 0 21 20 9 0 21	18 41 4 48 18 41 4 48 18 41 4 47 18 41 4 47 18 42 4 47 18 42 4 47	15 9 15 15 9 15 15 8 15 15 7 15 15 6 15	38 24 10 37 24 9 36 24 7 35 24 6 34 24 4 33 24 2 32 24 1 31 23n59	4 15 5 13 4 14 5 13 4 13 5 13 4 11 5 13 4 10 5 14 4 8 5 14

 $\label{eq:Julian Day Number = 2330709.5, Delta T = 30.28 sec} \\ Ecliptic obliquity = 23°29'03, Nutation = -0°00'10, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°07'20, Lahiri = 19°14'21Greg. Calendar$ 

APRIL 1669 GC 00:00 UT

AI IX.	LL TOU.	uc													00.0	0 0 1
Day	Sid.t	0	D	ğ	Ş	ď	4	ħ	)∤(	并	В	S.	v	Ç	ķ	Day
M 1	12 39 18	11 <b>Y</b> 45'05	14 <b>Y</b> 53	20°R 3	17 <b>)</b> (20	8 <b>8</b> 25	7 <b>Ⅱ</b> 51	22≈ 1	4 <b>)</b> (23	28 <b>궁</b> 34	28 <b>Ⅱ</b> 47	10°R36	128 7	5 <b>Ω</b> 10	7 <b>)</b> 0	M 1
T 2	12 43 15	12°44'06	28°48	19 <b>Υ</b> 30	18°33	9° 8	8° 1	22° 7	4°26	28°35	28°47	10 <b>8</b> 34	12° 4	5°17	7° 4	T 2
W 3	12 47 11	13°43'04	12821	18°53	19°47	9°51	8°12	22°12	4°29	28°36	28°48	10°D34	12° 1	5°23	7° 7	W 3
T 4	12 51 8	14°42'01	25°31	18°13	21° 0	10°34	8°22	22°17	4°32	28°37	28°48	10°34	11°57	5°30	7°10	T 4
F 5	12 55 4	15°40'55	8耳19	17°30	22°14	11°17	8°33	22°23	4°34	28°38	28°49	10°36	11°54	5°37	7°14	F 5
S 6	12 59 1	16°39'47	20°48	16°45	23°28	11°59	8°44	22°28	4°37	28°39	28°49	10°37	11°51	5°43	7°17	S 6
S 7	13 2 57	17°38'37	395 1	16° 0	24°41	12°42	8°55	22°33	4°40	28°40	28°50	10°39	11°48	5°50	7°20	S 7
M 8	13 6 54	18°37'25	15° 2	15°14	25°55	13°25	9° 6	22°38	4°43	28°40	28°51	10°R40	11°45	5°57	7°23	M 8
T 9	13 10 50	19°36'10	26°57	14°30	27° 8	14° 7	9°17	22°43	4°45	28°41	28°51	10°39	11°42	6° 4	7°26	T 9
W10	13 14 47	20°34'53	8 <b>Ω</b> 49	13°47	28°22	14°50	9°28	22°48	4°48	28°42	28°52	10°38	11°38	6°10	7°30	W10
T 11	13 18 44	21°33'34	20°45	13° 7	29°35	15°32	9°40	22°53	4°51	28°42	28°53	10°36	11°35	6°17	7°33	T 11
F 12	13 22 40	22°32'12	2 Mp 46	12°30	0 <b>Υ</b> 49	16°15	9°51	22°58	4°53	28°43	28°53	10°34	11°32	6°24	7°36	F 12
S 13	13 26 37	23°30'49	14°58	11°56	2° 2	16°57	10° 2	23° 2	4°56	28°44	28°54	10°31	11°29	6°30	7°39	S 13
S 14	13 30 33	24°29'23	27°22	11°26	3°16	17°39	10°14	23° 7	4°58	28°44	28°55	10°29	11°26	6°37	7°42	S 14
M15	13 34 30	25°27'55	10 <b>♀</b> 1	11° 1	4°29	18°22	10°26	23°12	5° 1	28°45	28°55	10°27	11°23	6°44	7°45	M15
T 16	13 38 26	26°26'25	22°54	10°41	5°43	19° 4	10°37	23°16	5° 3	28°45	28°56	10°25	11°19	6°51	7°48	T 16
W17	13 42 23	27°24'53	6M 4	10°25	6°57	19°46	10°49	23°21	5° 6	28°46	28°57	10°D25	11°16	6°57	7°50	W17
T 18	13 46 19	28°23'20	19°27	10°14	8°10	20°28	11° 1	23°25	5° 8	28°46	28°58	10°25	11°13	7° 4	7°53	T 18
F 19	13 50 16	29°21'44	3 <b>∡</b> 7 4	10° 9	9°24	21°10	11°13	23°29	5°10	28°46	28°58	10°25	11°10	7°11	7°56	F 19
S 20	13 54 12	0820'07	16°52	10°D 8	10°37	21°53	11°25	23°33	5°13	28°47	28°59	10°26	11° 7	7°18	7°59	S 20
S 21	13 58 9	1°18'29	0 <b>궁</b> 50	10°12	11°51	22°35	11°37	23°38	5°15	28°47	29° 0	10°27	11° 3	7°24	8° 2	S 21
M22	14 2 6	2°16'49	14°56	10°22	13° 4	23°17	11°49	23°42	5°17	28°47	29° 1	10°28	11° 0	7°31	8° 4	M22
T 23	14 6 2	3°15'07	29° 7	10°35	14°18	23°59	12° 1	23°46	5°20	28°48	29° 2	10°R28	10°57	7°38	8° 7	T 23
W24	14 9 59	4°13'24	13≈21	10°54	15°31	24°40	12°13	23°49	5°22	28°48	29° 3	10°28	10°54	7°44	8° 9	W24
T 25	14 13 55	5°11'39	27°36	11°17	16°45	25°22	12°26	23°53	5°24	28°48	29° 4	10°28	10°51	7°51	8°12	T 25
F 26	14 17 52	6° 9'53	11 <b>) (</b> 48	11°45	17°58	26° 4	12°38	23°57	5°26	28°48	29° 5	10°27	10°48	7°58	8°15	F 26
S 27	14 21 48	7° 8'05	25°55	12°16	19°12	26°46	12°50	24° 1	5°28	28°48	29° 6	10°27	10°44	8° 5	8°17	S 27
S 28	14 25 45	8° 6'16	9 <b>Ƴ</b> 54	12°52	20°25	27°28	13° 3	24° 4	5°30	28°48	29° 7	10°26	10°41	8°11	8°19	S 28
M29	14 29 41	9° 4'25	23°41	13°32	21°39	28° 9	13°16	24° 8	5°32	28°48	29° 8	10°26	10°38	8°18	8°22	M29
T 30	14 33 38	10 <b>8</b> 2'32	7 <b>8</b> 14	14 <b>Y</b> 15	22 <b>Y</b> 53	28851	13Ⅲ28	24≈11	5 <b>)</b> 34	28°R48	29Ⅱ 9	10826	10 <b>8</b> 35	$8\Omega 25$	8 <b>) (</b> 24	T 30

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M	4n39	3n47	2s16	10n46	3n 9	6s18	1 s24	14n31	0n11	21n15	0 s25	15 s12	1s 4	10 s36	0s44	20s 8	0n21	18n42	4 s47	15n 2	15n30	23n58	4s 6 5n14
T 2	2 5 2	10 4	1 4	10 28	3 3	5 50	1 25	14 45	0 12	21 17	0 24	15 10	1 4	10 35	0 44	20 8	0 21	18 42	4 47	15 1	15 29	23 56	4 4 5 14
W :	5 25	15 44 (	0n10	10 6	2 54	5 22	1 26	14 59	0 12	21 19	0 24	15 9	1 4	10 34	0 44	20 8	0 21	18 42	4 46	15 1	15 28	23 55	4 3 5 14
T	5 48	20 29	1 21	9 41	2 45	4 54	1 27	15 13	0 13	21 21	0 24	15 7	1 4	10 33	0 44	20 8	0 21	18 43	4 46	15 1	15 27	23 53	4 2 5 14
F :	6 11	24 9	2 27	9 15	2 34	4 26	1 28	15 27	0 14	21 23	0 24	15 6	1 4	10 32	0 44	20 8	0 21	18 43	4 46	15 2	15 26	23 51	4 0 5 14
S	6 34	26 33	3 23	8 46	2 21	3 58	1 29	15 41	0 14	21 25	0 24	15 4	1 4	10 31	0 44	20 8	0 21	18 43	4 46	15 2	15 25	23 50	3 59 5 15
S	6 56	27 36	4 9	8 16	2 8	3 29	1 30	15 55	0 15	21 26	0 24	15 2	1 5	10 30	0 44	20 7	0 21	18 43	4 46	15 3	15 24	23 48	3 58 5 15
M	7 19	27 20	4 44	7 45	1 53	3 1	1 30	16 8	0 15	21 28	0 23	15 1	1 5	10 29	0 44	20 7	0 21	18 43	4 46	15 3	15 23	23 47	3 56 5 15
T	7 41	25 48	5 6	7 14	1 38	2 32	1 31	16 22	0 16	21 30	0 23	14 59	1 5	10 28	0 44	20 7	0 21	18 43	4 45	15 3	15 22	23 45	3 55 5 15
W10		23 8	5 14	6 42	1 22	2 3	1 31	16 35	0 17	21 32	0 23	14 58	1 5	10 27	0 44	20 7	0 21	18 44	4 45	15 3	15 21	23 43	3 54 5 15
T 1	8 25	19 30	5 10	6 11	1 5	1 34	1 32	16 48	0 17	21 34	0 23	14 56	1 5	10 26	0 44	20 7	0 21	18 44	4 45	15 2	15 20	23 42	3 52 5 15
F 12		15 2	4 51	5 42	0 49	1 5	1 32	17 1	0 18	21 36	0 23	14 55	1 5	10 25	0 44	20 7	0 21	18 44	4 45	15 1	15 19	23 40	3 51 5 15
S 13	9 9	9 56	4 20	5 13	0 32	0 36	1 33	17 14	0 19	21 37	0 23	14 54	1 6	10 24	0 44	20 7	0 21	18 44	4 45	15 0	15 18	23 38	3 50 5 16
S 14	9 30	4 21	3 36	4 46	0 15	0 7	1 33	17 26	0 19	21 39	0 23	14 52	1 6	10 24	0 44	20 6	0 21	18 44	4 45	15 0	15 17	23 37	3 49 5 16
M1:	9 52	1 s31	2 40	4 21	0 s 1	0n22	1 33	17 39	0 20	21 41	0 22	14 51	1 6	10 23	0 44	20 6	0 21	18 44	4 44	14 59	15 16	23 35	3 47 5 16
T 10	5 10 13	7 27	1 35	3 58	0 17	0 51	1 33	17 51	0 20	21 43	0 22	14 50	1 6	10 22	0 44	20 6	0 21	18 44	4 44	14 58	15 15	23 33	3 46 5 16
Wl	7 10 34	13 11 (	0 24	3 38	0 33	1 20	1 33	18 3	0 21	21 45	0 22	14 48	1 6	10 21	0 44	20 6	0 21	18 45	4 44	14 58	15 14	23 32	3 45 5 16
T 13	3 10 55	18 26	0s50	3 20	0 48	1 49	1 33	18 15	0 22	21 46	0 22	14 47	1 6	10 20	0 44	20 6	0 21	18 45	4 44	14 58	15 13	23 30	3 44 5 16
F 19		22 48	2 2	3 4	1 2	2 18	1 33	18 27	0 22	21 48	0 22	14 46	1 7	10 19	0 44	20 6	0 21	18 45	4 44	14 59	15 12	23 28	3 43 5 17
S 20	11 37	25 57	3 8	2 51	1 16	2 47	1 33	18 38	0 23	21 50	0 22	14 45	1 7	10 18	0 44	20 6	0 21	18 45	4 44	14 59	15 11	23 27	3 41 5 17
S 2	11 57	27 33	4 4	2 41	1 29	3 16	1 33	18 50	0 23	21 52	0 22	14 43	1 7	10 18	0 44	20 6	0 21	18 45	4 44	14 59	15 10	23 25	3 40 5 17
M22	2 12 17	27 23	4 46	2 34	1 41	3 45	1 33	19 1	0 24	21 54	0 21	14 42	1 7	10 17	0 45	20 6	0 21	18 45	4 43	14 59	15 9	23 23	3 39 5 17
T 2	3 12 37	25 26	5 10	2 29	1 52	4 14	1 32	19 12	0 24	21 55	0 21	14 41	1 7	10 16	0 45	20 6	0 21	18 46	4 43	14 59	15 8	23 21	3 38 5 17
W24	12 57	21 53	5 16	2 26	2 3	4 43	1 32	19 23	0 25	21 57	0 21	14 40	1 7	10 15	0 45	20 6	0 21	18 46	4 43	14 59	15 7	23 20	3 37 5 18
T 2:	5 13 17	17 4 :	5 3	2 26	2 13	5 11	1 31	19 33	0 26	21 59	0 21	14 39	1 8	10 14	0 45	20 6	0 21	18 46	4 43	14 59	15 6	23 18	3 36 5 18
F 20	13 36	11 19	4 31	2 29	2 22	5 40	1 31	19 44	0 26	22 1	0 21	14 38	1 8	10 14	0 45	20 6	0 21	18 46	4 43	14 59	15 5	23 16	3 35 5 18
S 2	13 55	5 1 3	3 42	2 33	2 30	6 8	1 30	19 54	0 27	22 2	0 21	14 37	1 8	10 13	0 45	20 6	0 21	18 46	4 43	14 59	15 4	23 14	3 33 5 18
S 28	3 14 14	1n27	2 41	2 41	2 37	6 37	1 29	20 4	0 27	22 4	0 21	14 36	1 8	10 12	0 45	20 6	0 21	18 46	4 43	14 59	15 3	23 13	3 32 5 18
M29		7 48	1 32	2 50	2 44	7 5	1 29	20 14	0 28	22 6	0 21	14 35	1 8	10 12	0 45	20 6	0 21	18 46	4 42	14 59	15 2	23 11	3 31 5 19
T 30	14n51	13n40 (	0s18	3n 1	2 s 5 0	7n33	1 s28	20n24	0n28	22n 7	0 s20	14 s34	1 s 8	10s11	0 s45	20s 6	0n21	18n47	4 s42	14n59	15n 1	23n 9	3 s 30 5 n 1 9

 $\label{eq:Julian Day Number = 2330740.5, Delta T = 30.22 sec} \\ Ecliptic obliquity = 23°29'04, Nutation = -0°00'12, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°07'25, Lahiri = 19°14'25Greg. Calendar \\ \\$ 

MAY 1669 GC 00:00 UT

Day	Sid.t	$\odot$	D	φ	φ	♂	24	ħ	)f(	并	Р	r	Ω	Ç	Š	Day
W 1	14 37 35	118 0'38	20831	15 <b>Υ</b> 2	24 <b>Y</b> 6	29 <b>8</b> 33	13 <b>Ⅱ</b> 41	24≈14	5 <b>₩</b> 36	28°R48	29耳10	10°R26	10832	8 <b>Ω</b> 31	8 <b>)</b> (26	W 1
T 2	14 41 31	11°58'42	3 <b>II</b> 30	15°52	25°20	0 <b>Ⅱ</b> 14	13°53	24°18	5°38	28 <b>궁</b> 48	29°11	10826	10°29	8°38	8°29	T 2
F 3	14 45 28	12°56'45	16°13	16°45	26°33	0°56	14° 6	24°21	5°39	28°48	29°12	10°26	10°25	8°45	8°31	F 3
S 4	14 49 24	13°54'46	28°39	17°42	27°47	1°37	14°19	24°24	5°41	28°48	29°13	10°26	10°22	8°52	8°33	S 4
S 5	14 53 21	14°52'44	10952	18°42	29° 0	2°18	14°32	24°27	5°43	28°48	29°14	10°25	10°19	8°58	8°35	S 5
M 6	14 57 17	15°50'42	22°55	19°45	0814	3° 0	14°45	24°30	5°45	28°48	29°15	10°25	10°16	9° 5	8°37	M 6
T 7	15 1 14	16°48'37	$4\Omega 50$	20°50	1°27	3°41	14°58	24°32	5°46	28°48	29°16	10°24	10°13	9°12	8°39	T 7
W 8	15 5 10	17°46'30	16°43	21°59	2°41	4°23	15°11	24°35	5°48	28°48	29°17	10°D24	10° 9	9°19	8°41	W 8
T 9	15 9 7	18°44'22	28°39	23°10	3°54	5° 4	15°24	24°38	5°49	28°47	29°18	10°24	10° 6	9°25	8°43	T 9
F 10	15 13 4	19°42'12	10 <b>m</b> /41	24°23	5° 8	5°45	15°37	24°40	5°51	28°47	29°20	10°25	10° 3	9°32	8°45	F 10
S 11	15 17 0	20°40'00	22°54	25°40	6°21	6°26	15°50	24°43	5°52	28°47	29°21	10°26	10° 0	9°39	8°46	S 11
S 12	15 20 57	21°37'46	5 <b>₾</b> 22	26°58	7°35	7° 7	16° 3	24°45	5°54	28°46	29°22	10°27	9°57	9°45	8°48	S 12
M13	15 24 53	22°35'31	18° 9	28°20	8°48	7°48	16°16	24°47	5°55	28°46	29°23	10°28	9°54	9°52	8°50	M13
T 14	15 28 50	23°33'15	1 <b>M</b> .15	29°43	10° 2	8°29	16°29	24°49	5°56	28°46	29°24	10°28	9°50	9°59	8°51	T 14
W15	15 32 46	24°30'56	14°42	18 9	11°15	9°10	16°43	24°51	5°58	28°45	29°26	10°R28	9°47	10° 6	8°53	W15
T 16	15 36 43	25°28'37	28°29	2°38	12°29	9°51	16°56	24°53	5°59	28°45	29°27	10°28	9°44	10°12	8°55	T 16
F 17	15 40 39	26°26'16	12 <b>×</b> 32	4° 9	13°42	10°32	17° 9	24°55	6° 0	28°44	29°28	10°26	9°41	10°19	8°56	F 17
S 18	15 44 36	27°23'54	26°49	5°42	14°56	11°13	17°23	24°57	6° 1	28°44	29°29	10°24	9°38	10°26	8°57	S 18
S 19	15 48 33	28°21'31	11 <b>궁</b> 14	7°17	16° 9	11°54	17°36	24°58	6° 2	28°43	29°31	10°22	9°35	10°33	8°59	S 19
M20	15 52 29	29°19'07	25°41	8°55	17°23	12°35	17°49	25° 0	6° 3	28°42	29°32	10°20	9°31	10°39	9° 0	M20
T 21	15 56 26	0∏16'42	10≈ 6	10°35	18°36	13°15	18° 3	25° 2	6° 4	28°42	29°33	10°18	9°28	10°46	9° 1	T 21
W22	16 0 22	1°14'16	24°24	12°17	19°50	13°56	18°16	25° 3	6° 5	28°41	29°35	10°17	9°25	10°53	9° 3	W22
T 23	16 4 19	2°11'50	8 <b>)</b> 34	14° 2	21° 3	14°37	18°30	25° 4	6° 6	28°40	29°36	10°D17	9°22	10°59	9° 4	T 23
F 24	16 8 15	3° 9'22	22°32	15°49	22°17	15°18	18°43	25° 5	6° 7	28°40	29°37	10°18	9°19	11° 6	9° 5	F 24
S 25	16 12 12	4° 6'53	6 <b>Ƴ</b> 19	17°38	23°30	15°58	18°57	25° 6	6° 8	28°39	29°39	10°19	9°15	11°13	9° 6	S 25
S 26	16 16 9	5° 4'24	19°52	19°30	24°44	16°39	19°10	25° 7	6° 9	28°38	29°40	10°21	9°12	11°20	9° 7	S 26
M27	16 20 5	6° 1'54	3 <b>8</b> 13	21°24	25°57	17°19	19°24	25° 8	6° 9	28°37	29°41	10°22	9° 9	11°26	9° 8	M27
T 28	16 24 2	6°59'23	16°22	23°19	27°11	18° 0	19°38	25° 9	6°10	28°37	29°43	10°R22	9° 6	11°33	9° 9	T 28
W29	16 27 58	7°56'51	29°17	25°18	28°25	18°40	19°51	25°10	6°11	28°36	29°44	10°21	9° 3	11°40	9° 9	W29
T 30	16 31 55	8°54'18	12 <u>II</u> 0	27°18	29°38	19°21	20° 5	25°10	6°11	2 <u>8</u> °35	29°45	10°18	9° 0	11°47	9°10	T 30
F 31	16 35 51	9 <b>Ⅱ</b> 51'44	24 <b>II</b> 31	29820	0耳52	20耳 1	20 <b>Ⅱ</b> 19	25≈11	6 <b>∺</b> 12	28 <b>궁</b> 34	29∏47	10814	8 <b>8</b> 56	11 <b>£</b> 53	9 <b>米</b> 11	F 31

Day	0	D	ğ	φ	♂	4	ħ	)∤(	并	Р	រា	ນ ţ	ę,
	decl	decl lat	decl lat	decl lat d	ecl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl lat
W 1 T 2	15n10 15 27	18n48 0n56 22 56 2 4	3n15 2s55			22n 9 0s2 22 11 0 2		10s10 0s45	20s 6 0n21 20 6 0 21			15n 0 23n 7 14 59 23 6	3 s29 5n19 3 28 5 19
F 3 S 4		25 51 3 5 27 25 3 56		2 8 56 1 25 20 5 9 24 1 24 21		22 12 0 2 22 14 0 2		10 9 0 45 10 8 0 45				14 58 23 4 14 57 23 2	3 27 5 20 3 26 5 20
S 5 M 6 T 7	16 37	26 30 5 2	4 50 3 8	7 9 51 1 23 21 8 10 18 1 22 21 9 10 45 1 20 21	19 0 32	22 16 0 2 22 17 0 2	0 14 28 1 10		20 6 0 21	18 47 4 42	14 58 1	14 56 23 0 14 55 22 58	3 25 5 20 3 24 5 20
W 8 T 9 F 10	17 10		5 39 3 9 6 6 3 8	9 10 45 1 20 21 9 11 11 1 19 21 8 11 37 1 18 21 7 12 3 1 16 21	35 0 33 44 0 33	22 19 0 2 22 20 0 1 22 22 0 1 22 23 0 1	9 14 27 1 10	10 6 0 45 10 6 0 45	20 6 0 21 20 6 0 21	18 48 4 41 18 48 4 41	14 58 1 14 58 1	14 54 22 57 14 53 22 55 14 52 22 53 14 51 22 51	3 23 5 20 3 22 5 21 3 21 5 21 3 20 5 21
S 11	17 42	6 24 3 54		5 12 29 1 15 21			9 14 25 1 10					14 50 22 49	3 20 5 21
S 12 M13 T 14	18 12 18 27 18 42		8 7 2 59 8 40 2 55	5 13 44 1 10 22	14 0 35 21 0 36	22 28 0 1 22 29 0 1	9 14 23 1 11	10 4 0 45 10 3 0 45	20 6 0 21 20 6 0 21	18 48 4 41 18 48 4 41	14 59 1 14 59 1	14     49     22     47       14     48     22     46       14     47     22     44	3 19 5 22 3 18 5 22 3 17 5 22
W15 T 16 F 17 S 18	18 56 19 10 19 24 19 37	21 27 1 38 25 7 2 48	9 14 2 53 9 49 2 40 10 25 2 40 11 1 2 34	6 14 33 1 7 22 0 14 57 1 5 22	34 0 37 41 0 37	22 31 0 1 22 32 0 1 22 34 0 1 3 22 35 0 1	8 14 22 1 11	10 2 0 45 10 2 0 45	20 6 0 21 20 6 0 21	18 49 4 40 18 49 4 40	14 59 1 14 59 1	14 46 22 42 14 45 22 40 14 44 22 38 14 43 22 36	3 16 5 22 3 15 5 23 3 15 5 23 3 14 5 23
S 19 M20 T 21	19 50 20 3 20 15	27 35 4 35 26 2 5 5 22 48 5 15	11 39 2 28 12 17 2 2 12 55 2 13	8 15 43 1 2 22 1 16 6 1 0 22 3 16 28 0 58 23	53 0 38 59 0 38 5 0 39	22 36 0 1 22 38 0 1 22 39 0 1	8 14 21 1 12 8 14 21 1 12 8 14 20 1 12	10 1 0 45 10 1 0 46 10 0 0 46	20 7 0 21 20 7 0 21 20 7 0 21	18 49 4 40 18 49 4 40 18 49 4 40	14 57 1 14 57 1 14 56 1	14 42 22 34 14 41 22 32 14 40 22 31	3 13 5 23 3 12 5 24 3 12 5 24
T 23 F 24	20 27 20 38 20 50 21 1	12 39 4 37 6 32 3 53	14 14 1 5° 14 53 1 48	5 16 50 0 56 23 7 17 11 0 54 23 8 17 32 0 52 23 8 17 53 0 50 23	15 0 40 20 0 40	22 42 0 1 22 43 0 1	8	10 0 0 46 10 0 0 46	5 20 7 0 21 5 20 7 0 21	18 49 4 40 18 49 4 40	14 56 1 14 56 1	14 39 22 29 14 38 22 27 14 37 22 25 14 36 22 23	3 11 5 24 3 10 5 24 3 10 5 25 3 9 5 25
S 26 M27	21 11 21 21 21 31	6n 5 1 50 12 0 0 39	16 13 1 29 16 52 1 19	9 18 13 0 48 23	30 0 41 34 0 42	22 45 0 1 22 46 0 1	7 14 19 1 13	9 59 0 46 9 59 0 46	20 8 0 21 20 8 0 21	18 50 4 39 18 50 4 39	14 57 1 14 57 1	14 35 22 21 14 34 22 19 14 33 22 17	3 8 5 25 3 8 5 25 3 7 5 26
W29 T 30	21 40 21 50 21n58	21 41 1 42 24 59 2 44	18 11 0 58	8 19 10 0 42 23 8 19 28 0 39 23	42 0 43 46 0 43	22 49 0 1 22 50 0 1	7 14 19 1 14 7 14 19 1 14 7 14s19 1s14	9 58 0 46 9 58 0 46	5 20 8 0 21 5 20 8 0 21	18 50 4 39 18 50 4 39	14 57 1 14 56 1	14 32 22 15 14 31 22 13 14n30 22n11	3 7 5 26 3 6 5 26 3 8 6 5n27

Julian Day Number = 2330770.5, Delta T = 30.17 sec Ecliptic obliquity =  $23^{\circ}29'03$ , Nutation = -  $0^{\circ}00'12$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}07'29$ , Lahiri =  $19^{\circ}14'29$ Greg. Calendar

JUNE 1669 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)મ(	并	В	₽.	v	Ç	ķ	Day
S 1	16 39 48	10 <b>Ⅱ</b> 49'10	6949	1∏24	2 <b>II</b> 5	20 <b>Ⅱ</b> 41	20П32	25≈11	6 <b>∺</b> 12	28°R33	29∏48	10°R 9	8 <b>8</b> 53	120 0	9 <b>∺</b> 12	S 1
S 2	16 43 44	11°46'34	18°58	3°29	3°19	21°22	20°46	25°12	6°12	28 <b>궁</b> 32	29°50	108 4	8°50	12° 7	9°12	S 2
M 3	16 47 41	12°43'58	0 <b>Ω</b> 58	5°37	4°32	22° 2	21° 0	25°12	6°13	28°31	29°51	9°58	8°47	12°13	9°13	M 3
T 4	16 51 38	13°41'20	12°52	7°45	5°46	22°42	21°13	25°R12	6°13	28°30	29°52	9°54	8°44	12°20	9°13	T 4
W 5	16 55 34	14°38'41	24°44	9°55	6°59	23°22	21°27	25°12	6°13	28°29	29°54	9°51	8°41	12°27	9°14	W 5
T 6	16 59 31	15°36'01	6 <b>m</b> 38	12° 6	8°13	24° 3	21°41	25°12	6°14	28°28	29°55	9°49	8°37	12°34	9°14	T 6
F 7	17 3 27	16°33'20	18°39	14°17	9°27	24°43	21°55	25°12	6°14	28°27	29°57	9°D48	8°34	12°40	9°14	F 7
S 8	17 7 24	17°30'39	0 <b>ჲ</b> 50	16°29	10°40	25°23	22° 8	25°11	6°14	28°26	29°58	9°49	8°31	12°47	9°14	S 8
S 9	17 11 20	18°27'56	13°18	18°41	11°54	26° 3	22°22	25°11	6°14	28°25	29°59	9°50	8°28	12°54	9°15	S 9
M10	17 15 17	19°25'12	26° 5	20°53	13° 7	26°43	22°36	25°10	6°R14	28°23	095 1	9°52	8°25	13° 0	9°15	M10
T 11	17 19 13	20°22'28	9 <b>™</b> 17	23° 4	14°21	27°23	22°49	25°10	6°14	28°22	0° 2	9°R53	8°21	13° 7	9°15	T 11
W12	17 23 10	21°19'43	22°53	25°15	15°35	28° 3	23° 3	25° 9	6°14	28°21	0° 4	9°52	8°18	13°14	9°R15	W12
T 13	17 27 7	22°16'57	6 <b>₹</b> 55	27°25	16°48	28°43	23°17	25° 8	6°14	28°20	0° 5	9°49	8°15	13°21	9°15	T 13
F 14	17 31 3	23°14'11	21°20	29°34	18° 2	29°23	23°31	25° 7	6°14	28°19	0° 7	9°45	8°12	13°27	9°15	F 14
S 15	17 35 0	24°11'24	6 <b>ප</b> 2	19541	19°15	099 3	23°44	25° 6	6°13	28°17	0° 8	9°39	8° 9	13°34	9°14	S 15
S 16	17 38 56	25° 8'37	20°53	3°47	20°29	0°42	23°58	25° 5	6°13	28°16	0°10	9°32	8° 6	13°41	9°14	S 16
M17	17 42 53	26° 5'50	5≈46	5°51	21°43	1°22	24°12	25° 4	6°13	28°15	0°11	9°26	8° 2	13°48	9°14	M17
T 18	17 46 49	27° 3'02	20°31	7°53	22°56	2° 2	24°26	25° 3	6°13	28°13	0°13	9°20	7°59	13°54	9°14	T 18
W19	17 50 46	28° 0'14	5 <b>)</b> 4	9°54	24°10	2°42	24°39	25° 2	6°12	28°12	0°14	9°16	7°56	14° 1	9°13	W19
T 20	17 54 42	28°57'27	19°19	11°53	25°24	3°21	24°53	25° 0	6°12	28°11	0°16	9°14	7°53	14° 8	9°13	T 20
F 21	17 58 39	29°54'39	3 <b>Υ</b> 14	13°49	26°37	4° 1	25° 7	24°59	6°11	28° 9	0°17	9°D14	7°50	14°14	9°12	F 21
S 22	18 2 36	0951'51	16°50	15°44	27°51	4°41	25°21	24°57	6°11	28° 8	0°19	9°15	7°47	14°21	9°12	S 22
S 23	18 6 32	1°49'03	8 <b>B</b> 0	17°37	29° 5	5°20	25°34	24°55	6°10	28° 7	0°20	9°15	7°43	14°28	9°11	S 23
M24	18 10 29	2°46'15	13°10	19°27	०७७१८	6° 0	25°48	24°53	6° 9	28° 5	0°22	9°R16	7°40	14°35	9°10	M24
T 25	18 14 25	3°43'28	25°58	21°15	1°32	6°39	26° 2	24°52	6° 9	28° 4	0°23	9°14	7°37	14°41	9°10	T 25
W26	18 18 22	4°40'41	8 <b>Ⅱ</b> 34	23° 2	2°46	7°19	26°15	24°50	6° 8	28° 2	0°25	9°11	7°34	14°48	9° 9	W26
T 27	18 22 18	5°37'53	21° 0	24°46	3°59	7°58	26°29	24°48	6° 7	28° 1	0°26	9° 5	7°31	14°55	9° 8	T 27
F 28	18 26 15	6°35'06	39517	26°28	5°13	8°38	26°43	24°45	6° 6	27°59	0°27	8°56	7°27	15° 2	9° 7	F 28
S 29	18 30 11	7°32'19	15°26	28° 7	6°27	9°17	26°56	24°43	6° 6	27°58	0°29	8°46	7°24	15° 8	9° 6	S 29
S 30	18 34 8	8929'31	279528	295645	79541	9957	27 <b>Ⅱ</b> 10	24≈41	6 <b>∺</b> 5	27 <b>궁</b> 56	0930	8 <b>8</b> 35	7 <b>8</b> 21	15 <b>Ω</b> 15	9 <b>米</b> 5	S 30

Day	0	Ź	)	ţ	5	ç	)	C	7	2	+	ŧ	ì	)	ţ(	<del>,</del>		Е	)	r	u	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
S 1	22n 7	27n39	4n21	20n 3	0 s 2 6	20n 3	0 s35	23n53	0n44	22n52	0s17	14s19	1 s 1 5	9 s 5 8	0 s46	20s 9	0n21	18n50	4s39	14n53	14n29	22n 9	3 s 5	5n27
S 2	22 14	26 56	4 51	20 39	0 15	20 19	0 33	23 56	0 44	22 53	0 17	14 19	1 15	9 58	0 46	20 9	0 21	18 50	4 39	14 52	14 28	22 7	3 5	5 27
M 3		24 59		21 13		20 35		23 59		22 54		14 19	1 15	9 58			0 21	18 50		14 50			3 4	J 2,
T 4		21 56		21 45		20 51	0 28			22 55	0 16	14 20	1 15	9 58			0 21	18 51		14 49			3 4	
W 5	22 36	-	-		0 17	-	0 26	-		22 56		14 20	1 15	9 58		20 10	0 21	18 51		14 48			3 4	
T 6	22 42			22 44		21 20	0 23			22 57		14 20	1 16	9 58		20 10	0 21	18 51				21 59	3 3	
F 7	22 48		-	23 11		21 34	0 21			22 58		14 20	1 16	9 58		20 10	0 21			14 47			3 3	
S 8	22 54	2 40	3 16	23 35	0 47	21 47	0 19	24 11	0 47	22 59	0 16	14 20	1 16	9 57	0 46	20 10	0 21	18 51	4 38	14 47	14 22	21 55	3 2	5 29
S 9	22 59	3 s 7	2 19	23 56	0 56	21 59	0 16	24 13	0 47	23 0	0 16	14 21	1 16	9 58	0 46	20 10	0 21	18 51	4 38	14 47	14 21	21 53	3 2	5 29
M10	23 4	8 57	1 14	24 15	1 5	22 11	0 14	24 14	0 48	23 1	0 16	14 21	1 16	9 58	0 46	20 11	0 21	18 51	4 38	14 48	14 20	21 51	3 2	5 29
T 11	23 8	14 34		_		22 22		24 16	0 48		0 16		1 17	9 58			0 21	18 51		14 48			3 2	
W12	-	19 39		24 44	1 20		0 9		0 48		0 16		1 17	9 58		20 11	0 21	18 51		14 48			3 1	5 30
T 13		23 49		24 55	1 27		0 7		0 49		0 16		1 17	9 58		20 11	0 21			14 47			3 1	5 30
F 14	-	26 37			1 33		0 4	-	0 49		0 15	-	1 17	9 58		20 12	0 21			14 46			3 1	5 30
S 15	23 21	27 37	4 17	25 7	1 39	23 1	0 2	24 19	0 50	23 5	0 15	14 23	1 17	9 58	0 47	20 12	0 21	18 51	4 38	14 44	14 15	21 41	3 1	5 31
S 16	23 24	26 40	4 52	25 9	1 44	23 9	0n 0	24 19	0 50	23 6	0 15	14 24	1 18	9 58	0 47	20 12	0 21	18 51	4 38	14 42	14 14	21 39	3 1	5 31
M17	23 26	23 49	5 7	25 9	1 48	23 16	0 3	24 19	0 50	23 6	0 15	14 25	1 18	9 58	0 47	20 12	0 21	18 51	4 38	14 40	14 13	21 37	3 0	5 31
		19 26		25 5	1 51			24 19	0 51		0 15		1 18	9 58		20 13	0 21	18 51		14 38			3 0	
	23 28		4 37		1 53			24 18	0 51		0 15		1 18	9 59		20 13	0 21	18 52		14 37			3 0	
T 20	23 29			24 52	1 55			24 18			0 15		1 18	9 59		20 13	0 21	18 52		14 36			3 0	
F 21	23 29		-	24 41	1 56			24 17	0 52		0 15		1 18	9 59		20 14	0 21			14 36		21 29	3 0	
S 22	23 29	4n49	1 58	24 29	1 56	23 43	0 15	24 16	0 52	23 9	0 15	14 28	1 19	9 59	0 47	20 14	0 21	18 52	4 37	14 36	14 8	21 26	3 0	5 32
S 23	23 28	10 47	0 49	24 14	1 56	23 46	0 17	24 15	0 53	23 10	0 15	14 29	1 19	9 59	0 47	20 14	0 21	18 52	4 37	14 36	14 7	21 24	3 0	5 33
M24	23 27	16 9	0n21	23 58	1 55	23 48	0 19	24 14	0 53	23 11	0 14	14 29	1 19	10 0	0 47	20 14	0 21	18 52	4 37	14 36	14 6	21 22	3 0	5 33
T 25	23 26	20 43	1 28	23 40	1 53	23 50	0 21	24 12	0 53	23 11	0 14	14 30	1 19	10 0	0 47	20 15	0 21	18 52	4 37	14 36	14 5	21 20	3 0	5 33
W26	23 24	-		23 20	1 51			24 10		23 12		14 31				20 15	0 21	18 52		14 35		21 18	3 0	5 33
T 27		26 34	-	22 59	1 48		0 26			23 12	-	14 32	1 20			20 15	0 21	18 52		14 33		21 16		5 34
F 28		27 34		22 36		23 51	0 28			23 12	-	14 33	1 20				0 21	18 52		14 30		21 14	3 0	
S 29	23 16	27 12	4 39	22 12	1 40	23 50	0 31	24 4	0 55	23 13	0 14	14 34	1 20	10 1	0 47	20 16	0 21	18 52	4 37	14 27	14 0	21 12	3 0	5 34
S 30	23n13	25n34	4n58	21n47	1n35	23n48	0n33	24n 1	0n55	23n13	0s14	14 s35	1 s20	10 s 2	0 s47	20s16	0n21	18n52	4 s 3 7	14n23	13n59	21n 9	3 s 1	5n34

Julian Day Number = 2330801.5, Delta T = 30.12 sec Ecliptic obliquity =  $23^{\circ}29'03$ , Nutation = -  $0^{\circ}00'11$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}07'33$ , Lahiri =  $19^{\circ}14'34$ Greg. Calendar

JULY 1669 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ	)∤(	并	Р	n	ດ	Ç	ķ	Day
M 1	18 38 5	99526'44	9Ω24	1021	8 <b>9</b> 54	10936	27 <b>I</b> I23	24°R38	6°R 4	27°R55	0932	8°R24	7 <b>8</b> 18	15 <b>Ω</b> 22	9°R 4	M 1
T 2	18 42 1	10°23'56	21°16	2°54	10° 8	11°15	27°37	24 <b>≈</b> 36	6 <b>∺</b> 3	27 <b>중</b> 53	0°33	8814	7°15	15°28	9 <b>X</b> 3	T 2
W 3	18 45 58	11°21'09	3 mp 7	4°25	11°22	11°55	27°50	24°33	6° 2	27°52	0°35	8° 6	7°12	15°35	9° 2	W 3
T 4	18 49 54	12°18'21	14°59	5°54	12°36	12°34	28° 4	24°31	6° 1	27°50	0°36	8° 0	7° 8	15°42	9° 1	T 4
F 5	18 53 51	13°15'33	26°58	7°21	13°50	13°13	28°17	24°28	5°59	27°49	0°38	7°57	7° 5	15°49	9° 0	F 5
S 6	18 57 47	14°12'45	9 <b>요</b> 7	8°46	15° 3	13°53	28°31	24°25	5°58	27°47	0°39	7°D55	7° 2	15°55	8°58	S 6
S 7	19 1 44	15° 9'57	21°31	10° 8	16°17	14°32	28°44	24°22	5°57	27°46	0°41	7°55	6°59	16° 2	8°57	S 7
M 8	19 5 40	16° 7'09	4 <b>M</b> .15	11°28	17°31	15°11	28°58	24°19	5°56	27°44	0°42	7°R56	6°56	16° 9	8°55	M 8
T 9	19 9 37	17° 4'21	17°24	12°46	18°45	15°50	29°11	24°16	5°55	27°42	0°43	7°55	6°53	16°15	8°54	T 9
W10	19 13 34	18° 1'34	1 <b>7</b> 1	14° 1	19°59	16°29	29°24	24°13	5°53	27°41	0°45	7°53	6°49	16°22	8°52	W10
T 11	19 17 30	18°58'46	15° 7	15°14	21°12	17° 8	29°38	24°10	5°52	27°39	0°46	7°49	6°46	16°29	8°51	T 11
F 12	19 21 27	19°55'59	29°41	16°24	22°26	17°47	29°51	24° 6	5°50	27°38	0°48	7°42	6°43	16°36	8°49	F 12
S 13	19 25 23	20°53'12	14 <b>る</b> 37	17°32	23°40	18°26	095 4	24° 3	5°49	27°36	0°49	7°34	6°40	16°42	8°48	S 13
S 14	19 29 20	21°50'26	29°46	18°37	24°54	19° 5	0°17	24° 0	5°47	27°34	0°50	7°24	6°37	16°49	8°46	S 14
M15	19 33 16	22°47'40	14≈59	19°40	26° 8	19°44	0°31	23°56	5°46	27°33	0°52	7°13	6°33	16°56	8°44	M15
T 16	19 37 13	23°44'54	0 <b>米</b> 5	20°39	27°22	20°23	0°44	23°53	5°44	27°31	0°53	7° 5	6°30	17° 3	8°42	T 16
W17	19 41 10	24°42'09	14°55	21°36	28°36	21° 2	0°57	23°49	5°43	27°30	0°55	6°58	6°27	17° 9	8°41	W17
T 18	19 45 6	25°39'25	29°21	22°29	29°50	21°41	1°10	23°46	5°41	27°28	0°56	6°53	6°24	17°16	8°39	T 18
F 19	19 49 3	26°36'42	13 <b>Y</b> 23	23°19	10 3	22°20	1°23	23°42	5°40	27°26	0°57	6°51	6°21	17°23	8°37	F 19
S 20	19 52 59	27°34'00	26°59	24° 6	2°17	22°59	1°36	23°38	5°38	27°25	0°59	6°D51	6°18	17°29	8°35	S 20
S 21	19 56 56	28°31'19	10811	24°49	3°31	23°38	1°49	23°34	5°36	27°23	1° 0	6°R51	6°14	17°36	8°33	S 21
M22	20 0 52	29°28'39	23° 4	25°29	4°45	24°17	2° 2	23°30	5°34	27°21	1° 1	6°50	6°11	17°43	8°31	M22
T 23	20 4 49	0\Omega26'00	5 <b>∏</b> 40	26° 5	5°59	24°56	2°15	23°26	5°33	27°20	1° 3	6°48	6° 8	17°50	8°29	T 23
W24	20 8 45	1°23'22	18° 4	26°36	7°13	25°34	2°27	23°22	5°31	27°18	1° 4	6°43	6° 5	17°56	8°26	W24
T 25	20 12 42	2°20'45	0 <b>©</b> 17 12°22	27° 4 27°27	8°27	26°13	2°40 2°53	23°18 23°14	5°29 5°27	27°17 27°15	1° 5	6°35	6° 2	18° 3 18°10	8°24	T 25 F 26
F 26 S 27	20 16 39 20 20 35	3°18'09 4°15'34	24°22	27°46	9°41 10°55	26°52 27°31	3° 6	23°14 23°10	5°27	27°13	1° 6 1° 8	6°24 6°11	5°59 5°55	18°10 18°16	8°22 8°20	F 26 S 27
												-				
S 28	20 24 32	5°13'00	6 <b>Ω</b> 18	28° 0	12° 9	28° 9	3°18	23° 6	5°23	27°12	1° 9	5°57	5°52	18°23	8°18	S 28
M29	20 28 28	6°10'26	18°10	28° 9	13°23	28°48	3°31	23° 2	5°21	27°10	1°10	5°43	5°49	18°30	8°15	M29
T 30	20 32 25	7° 7'54	0 m 2	28°R13	14°37	29°27	3°43	22°58	5°19	27° 8	1°11	5°30	5°46	18°37	8°13	T 30
W31	20 36 21	8 <b>Ω</b> 5'22	11 <b>m</b> 53	28 <b>Ω</b> 12	15 <b>Ω</b> 51	oΩ 5	3956	22≈53	5 <b>)</b> 17	27중 7	19913	5 <b>8</b> 20	5 <b>8</b> 43	18 <b>Ω</b> 43	8 <b>∺</b> 10	W31

Day	0	D		ζ	i	ç	1	ď	7	2	ļ.	ħ	<u>ι</u>	);	<del>j</del> (	4		В	1	n	Ω	Ç	ا	5
	decl	decl la	at	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1 T 2	23n 9 23 5	-	-	21n21 20 54		23n46 23 43		23n59 23 56		23n14 23 14		14s36 14 37	1 s20 1 21	10s 2 10 3		20s16 20 17	0n21 0 21	18n52 18 52		14n20 14 17		21n 7 21 5	3 s 1 3 1	5n35 5 35
W 3	23 0			20 27		23 39		23 53		23 14		14 37	1 21				0 21	18 52		14 17			3 1	5 35
T 4	22 55	9 39	4 3	19 58	1 10	23 34	0 41	23 49	0 56	23 15	0 14	14 39	1 21	10 3	0 47	20 17	0 21	18 52	4 37	14 12	13 55	21 1	3 1	5 35
F 5	22 49	-	-	19 29		23 29		23 46		23 15	0 13		1 21	10 4			0 21	18 52		14 11		20 59	3 2	
S 6	22 43	1 s22	2 27	18 59	0 55	23 23	0 45	23 42	0 57	23 15	0 13	14 41	1 21	10 4	0 47	20 18	0 21	18 52	4 37	14 11	13 53	20 56	3 2	5 36
S 7	22 37			18 29		23 16		23 38		23 15		14 42	1 21			20 18						20 54	3 2	
M 8 T 9	22 31			17 59 17 28	0 38 0 29		0 49	23 34		23 16 23 16		14 43 14 44	1 22 1 22			20 19 20 19	0 21 0 21	18 52 18 52				20 52 20 50	3 3 3	
W10				16 58		22 52		23 26		23 16		14 44	1 22			20 19	0 21					20 30	3 3	
T 11	22 8	25 42		16 27	0 9		0 55			23 16	0 13			-		20 20	0 21	18 52	4 37			20 45	3 4	5 37
F 12	22 0			15 56	0 s 1	22 33		23 16	0 59	23 16	0 13	14 48	1 22	10 7	0 47	20 20	0 21	18 52	4 37	14 6	13 47	20 43	3 4	5 37
S 13	21 51	27 17	4 38	15 25	0 12	22 22	0 59	23 11	0 59	23 16	0 13	14 49	1 22	10 8	0 48	20 20	0 21	18 52	4 37	14 4	13 46	20 41	3 5	5 37
S 14	21 43			14 55		22 11		23 6		23 16	0 13		1 23			20 21	0 21			-		20 39	3 5	
M15	21 33			14 25		21 59		23 1		23 16	0 13	-				20 21	0 21	18 52				20 37	3 5	
T 16 W17	21 24 21 13			13 55 13 26		21 46 21 33		22 55 22 50		23 16 23 16	0 13 0 12			10 10 10 10		20 21 20 22	0 21 0 21	18 52 18 52				20 34 20 32	3 6	
T 18	21 3	3 4		12 57		21 19		22 44		23 16	0 12			10 10	-	20 22	0 21	18 52				20 32	3 7	5 38
F 19	20 52	3n26		12 29	1 22			22 38		23 16		14 57		10 12		20 22	0 21					20 28	3 8	5 38
S 20	20 41	9 36	0 52	12 2	1 34	20 49	1 10	22 32	1 1	23 16	0 12	14 59	1 23	10 12	0 48	20 23	0 21	18 52	4 37	13 50	13 39	20 25	3 8	5 38
S 21	20 30	15 11	0n18	11 36	1 47	20 33		22 25		23 16	0 12	15 0	1 24	10 13		20 23	0 21	18 52				20 23	3 9	5 39
M22	-			11 10	2 0			22 19		23 16	0 12			10 14		20 23	0 21	18 52		13 49			3 9	5 39
T 23 W24	20 6 19 53	-	-	10 46	2 13			22 12		23 16	0 12			10 14		20 24	0 21	18 52				20 18	3 10	5 39 5 39
T 25		26 15 27 31	4 2	10 23 10 2	2 25 2 38		1 15 1 16			23 16 23 16	0 12 0 12			10 15 10 16		20 24 20 24	0 21 0 21	18 52 18 52				20 16 20 14	3 11 3 11	5 39
F 26	19 27		4 34	-	2 51			21 51		23 15	0 12			10 16		20 25	0 21	18 52		-		20 12	3 12	
S 27	19 14		4 53		3 4			21 44		23 15	0 12			10 17		20 25	0 21	18 52		13 36			3 13	
S 28	19 0	23 34	4 59	9 7	3 16	18 27	1 19	21 36	1 3	23 15	0 12	15 10	1 25	10 18	0 48	20 25	0 21	18 52	4 37	13 32	13 30	20 7	3 13	5 40
M29	18 46	-	4 52		3 28			21 29		23 15	0 11	-		10 19		20 26	0 21	18 52		13 27			3 14	
T 30			4 33		3 40			21 21		23 15	0 11			10 19		20 26	0 21	18 52		13 23			3 15	
W31	18n17	10n50	4n 1	8n31	3 s 5 1	17n25	1n22	21n13	1n 4	23n14	0s11	15 s 15	1 s25	10 s20	0 s48	20 s26	0n21	18n52	4 s 3 7	13n19	13n27	20n 0	3 s 1 6	5n40

Julian Day Number = 2330831.5, Delta T = 30.06 sec Ecliptic obliquity =  $23^{\circ}29'03$ , Nutation = -  $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}07'37$ , Lahiri =  $19^{\circ}14'38$ Greg. Calendar

AUGUST 1669 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	¥	Р	n	Ω	Ç	ķ	Day
T 1	20 40 18	9Ω 2'52	23 <b>m</b> ) 47	28°R 6	17 <b>Ω</b> 5	0Ω44	495 8	22°R49	5°R15	27°R 5	19914	5°R12	5 <b>8</b> 39	18 <b>Ω</b> 50	8°R 8	T 1
F 2	20 44 14	10° 0'22	5 <u>~46</u>	$27\Omega54$	18°19	1°22	4°20	22≈45	5 <b>X</b> 13	27 <b>중</b> 4	1°15	5 <b>8</b> 6	5°36	18°57	8 <b>X</b> 6	F 2
S 3	20 48 11	10°57'53	17°55	27°37	19°33	2° 1	4°33	22°40	5°11	27° 2	1°16	5° 4	5°33	19° 4	8° 3	S 3
												-		-	00.1	
S 4	20 52 8	11°55'24	0M.18	27°15	20°47	2°40	4°45	22°36	5° 9	27° 1	1°17	5° 3	5°30	19°10	8° 1	S 4
M 5	20 56 4 21 0 1	12°52'57 13°50'31	12°59 26° 3	26°47 26°15	22° 1 23°16	3°18 3°57	4°57 5° 9	22°32 22°27	5° 7 5° 4	26°59 26°57	1°19 1°20	5° 3 5° 3	5°27 5°24	19°17 19°24	7°58 7°55	M 5
T 6	21 0 1 21 3 57	13°30'31 14°48'05	9 <b>×</b> <sup>7</sup> 34	25°38	24°30	4°35	5°21	22°23	5° 2	26°56	1°21	5° 1	5°24	19°24 19°30	7°53	T 6 W 7
T 8	21 3 37	14 48 03 15°45'41	23°34	23 38 24°57	25°44	5°14	5°33	22°18	5° 0	26°54	1°22	3 1 4°57	5°17	19°37	7°50	T 8
F 9	21 / 34 21 11 50	15 43 41 16°43'17	8 <b>云</b> 4	24°12	25°44 26°58	5°52	5°45	22°14	4°58	26°53	1°23	4°50	5°14	19 37 19°44	7°48	F 9
S 10	21 11 30	10°43°17	22°59	23°25	28°12	6°31	5°57	22° 9	4°56	26°51	1°24	4°41	5°11	19°51	7°45	S 10
					-											
S 11	21 19 43	18°38'33	8≈11	22°35	29°26	7° 9	6° 8	22° 5	4°53	26°50	1°25	4°31	5° 8	19°57	7°42	S 11
M12	21 23 40	19°36'13	23°32	21°44	0 <b>m</b> 40	7°47	6°20	22° 0	4°51	26°48	1°26	4°21	5° 5	20° 4	7°39	M12
T 13	21 27 37	20°33'54	8 <b>)</b> (48	20°52	1°54	8°26	6°32	21°56	4°49	26°47	1°27	4°12	5° 1	20°11	7°37	T 13
W14	21 31 33	21°31'37	23°50	20° 2	3° 8	9° 4	6°43	21°51	4°46	26°46	1°28	4° 5	4°58	20°17	7°34	W14
T 15	21 35 30	22°29'21	8 <b>Υ</b> 29	19°13	4°22	9°42	6°55	21°47	4°44	26°44	1°29	4° 0	4°55	20°24	7°31	T 15
F 16	21 39 26	23°27'07	22°40	18°27	5°36	10°21	7° 6	21°42	4°42	26°43	1°30	3°58	4°52	20°31	7°28	F 16
S 17	21 43 23	24°24'54	6 <b>8</b> 23	17°44	6°50	10°59	7°17	21°38	4°39	26°41	1°31	3°D57	4°49	20°38	7°26	S 17
S 18	21 47 19	25°22'43	19°39	17° 6	8° 5	11°37	7°28	21°33	4°37	26°40	1°32	3°R58	4°45	20°44	7°23	S 18
M19	21 51 16	26°20'34	2Ⅲ32	16°34	9°19	12°16	7°40	21°29	4°35	26°39	1°33	3°58	4°42	20°51	7°20	M19
T 20	21 55 12	27°18'27	15° 4	16° 8	10°33	12°54	7°51	21°24	4°32	26°37	1°34	3°56	4°39	20°58	7°17	T 20
W21	21 59 9	28°16'22	27°22	15°49	11°47	13°32	8° 2	21°20	4°30	26°36	1°35	3°53	4°36	21° 4	7°14	W21
T 22	22 3 6	29°14'18	9929	15°37	13° 1	14°10	8°12	21°15	4°28	26°35	1°36	3°46	4°33	21°11	7°11	T 22
F 23	22 7 2	0 mp 12'17	21°28	15°D33	14°15	14°49	8°23	21°11	4°25	26°33	1°37	3°38	4°30	21°18	7° 8	F 23
S 24	22 10 59	1°10'17	3 <b>Ω</b> 22	15°37	15°29	15°27	8°34	21° 6	4°23	26°32	1°38	3°27	4°26	21°25	7° 6	S 24
S 25	22 14 55	2° 8'18	15°14	15°50	16°43	16° 5	8°44	21° 2	4°20	26°31	1°39	3°15	4°23	21°31	7° 3	S 25
M26	22 18 52	3° 6'21	27° 6	16°11	17°58	16°43	8°55	20°58	4°18	26°30	1°39	3° 4	4°20	21°38	7° 0	M26
T 27	22 22 48	4° 4'26	8 <b>m</b> 58	16°40	19°12	17°21	9° 5	20°53	4°16	26°28	1°40	2°53	4°17	21°45	6°57	T 27
W28	22 26 45	5° 2'33	20°54	17°17	20°26	17°59	9°16	20°49	4°13	26°27	1°41	2°44	4°14	21°51	6°54	W28
T 29	22 30 41	6° 0'41	2 <b>₾</b> 53	18° 2	21°40	18°38	9°26	20°45	4°11	26°26	1°42	2°38	4°10	21°58	6°51	T 29
F 30	22 34 38	6°58'51	14°59	18°55	22°54	19°16	9°36	20°40	4° 8	26°25	1°42	2°34	4° 7	22° 5	6°48	F 30
S 31	22 38 35	7 <b>m</b> 57'02	27 <b>♀</b> 14	19 <b>N</b> 55	24 MD 8	19 <b>Ω</b> 54	99546	20≈36	4 <b>∺</b> 6	26 <b>궁</b> 24	19543	2°D32	4 <b>8</b> 4	22 <b>Ω</b> 12	6 <b>)</b> €45	S 31

Day	0	J	)	ζ	5	ç	)	C	7		4	ŧ		)	ł(	<del>,</del>	(	Е	<u>-</u>	n	v	Ç	ď	;
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18n 2	5n31	3n19	8n23	4s 1	17n 3	-	21n 5		23n14				10 s21		20 s27	0n21	18n52			13n26		3 s 1 6	
F 2	17 46		2 28	8 18	4 11			20 56		23 14		15 18		10 22		20 27	0 21	18 52			13 25		3 17	5 40
S 3	17 31	5 40	1 29	8 15	4 20	16 19	1 24	20 48	1 5	23 13	0 11	15 20	1 25	10 22	0 48	20 27	0 21	18 52	4 37	13 14	13 24	19 53	3 18	5 40
S 4	17 15	11 12	0 25	8 15	4 28	15 55	1 24	20 39	1 5	23 13	0 11	15 21	1 25	10 23	0 48	20 27	0 21	18 52	4 37	13 14	13 23	19 51	3 19	5 40
M 5	16 59	16 26	0 s42	8 18	4 35	15 32	1 25	20 31	1 5	23 13	0 11	15 23	1 25	10 24	0 48	20 28	0 21	18 52	4 37	13 14	13 22	19 48	3 20	5 41
T 6	16 42	21 4	1 49	8 23	4 40	15 8		20 22		23 12	0 11	15 24	1 26	10 25	0 48	20 28	0 21	18 52			_	19 46	3 21	5 41
W 7	16 25	24 45	2 52	8 32	4 44	14 44		20 13		23 12	0 11		1 26	10 26	0 48	20 28	0 21	18 52	4 37	13 13	13 20	19 44	3 21	5 41
T 8			3 47	8 43	4 47		1 26			23 11	0 11			10 27		20 29	0 21				13 19		3 22	5 41
F 9	15 51		4 29	8 57	4 48			19 55		23 11	0 11			10 27		20 29	0 21		4 37			19 39	3 23	5 41
S 10	15 34	26 22	4 55	9 13	4 47	13 29	1 27	19 45	1 6	23 11	0 10	15 30	1 26	10 28	0 48	20 29	0 21	18 52	4 37	13 7	13 16	19 37	3 24	5 41
S 11	15 16	23 5	5 0	9 32	4 44	13 3	1 27	19 36	1 7	23 10	0 10	15 32	1 26	10 29	0 48	20 30	0 21	18 52	4 37	13 3	13 15	19 34	3 25	5 41
M12	14 58	18 10	4 45	9 53	4 39	12 37	1 27	19 26	1 7	23 10	0 10	15 33	1 26	10 30	0 48	20 30	0 21	18 52	4 37	13 0	13 14	19 32	3 26	5 41
T 13	14 40	12 7	4 8	10 15	4 33	12 10	1 27	19 16	1 7	23 9	0 10	15 35	1 26	10 31	0 48	20 30	0 20	18 52	4 37	12 57	13 13	19 29	3 27	5 41
W14	14 21	5 27	3 16	10 39	4 24	11 43	1 27	19 6	1 7	23 9	0 10	15 37	1 26	10 32	0 48	20 31	0 20	18 52	4 37	12 54	13 12	19 27	3 28	5 41
T 15	14 3	1n22	2 11	11 4	4 14	11 16	1 26	18 56	1 7	23 8	0 10	15 38	1 26	10 32	0 48	20 31	0 20	18 52	4 37	12 53	13 11	19 25	3 29	5 41
F 16	13 44	7 55	1 0	11 29	4 2	10 49	1 26	18 46	1 8	23 8	0 10	15 40	1 26	10 33	0 48	20 31	0 20	18 52	4 37	12 52	13 10	19 22	3 30	5 41
S 17	13 25	13 53	0n13	11 55	3 49	10 21	1 26	18 36	1 8	23 7	0 10	15 41	1 26	10 34	0 48	20 31	0 20	18 52	4 37	12 52	13 9	19 20	3 31	5 41
S 18	13 5	19 0	1 22	12 20	3 34	9 53	1 26	18 25	1 8	23 7	0 10	15 43	1 27	10 35	0 48	20 32	0 20	18 52	4 37	12 52	13 8	19 17	3 32	5 41
M19	12 46	23 5	2 26	12 45	3 18	9 25	1 25	18 15	1 8	23 6	0 10	15 44	1 27	10 36	0 48	20 32	0 20	18 52	4 37	12 52	13 7	19 15	3 33	5 41
T 20	12 26	25 58	3 20	13 9	3 1	8 56	1 25	18 4	1 8	23 6	0 10	15 46	1 27	10 37	0 48	20 32	0 20	18 51	4 37	12 51	13 6	19 13	3 34	5 41
W21	12 6	27 32	4 4	13 31	2 44	8 27	1 24	17 53	1 9	23 5	0 10	15 47	1 27	10 38	0 48	20 33	0 20	18 51	4 37	12 50	13 5	19 10	3 35	5 41
T 22	11 46	27 44	4 36	13 52	2 26	7 58	1 24	17 42	1 9	23 4	0 9	15 49	1 27	10 39	0 48	20 33	0 20	18 51		12 48		19 8	3 36	5 41
F 23	11 25	26 39	4 56	14 10	2 7	7 29	1 23	17 31	1 9	23 4	0 9	15 50	1 27	10 39	0 48	20 33	0 20	18 51	4 37	12 45	13 3	19 5	3 37	5 41
S 24	11 5	24 21	5 3	14 27	1 49	7 0	1 22	17 20	1 9	23 3	0 9	15 52	1 27	10 40	0 48	20 33	0 20	18 51	4 37	12 41	13 1	19 3	3 38	5 41
S 25	10 44	21 1	4 56	14 41	1 31	6 30	1 21	17 9	1 9	23 3	0 9	15 53	1 27	10 41	0 48	20 34	0 20	18 51	4 37	12 37	13 0	19 0	3 39	5 41
M26	10 23	16 50	4 37	14 52	1 13	6 0	1 20	16 58	1 10	23 2	0 9	15 55	1 27	10 42	0 48	20 34	0 20	18 51	4 37	12 33	12 59	18 58	3 41	5 41
T 27	10 2	12 1	4 6	15 0	0 55	5 30	1 20	16 46	1 10	23 1	0 9	15 56	1 27	10 43	0 48	20 34	0 20	18 51	4 37	12 30	12 58	18 55	3 42	5 41
W28	9 41	6 44	3 23	15 5	0 38	5 0	1 19	16 35	1 10	23 1	0 9	15 57	1 27	10 44	0 48	20 34	0 20	18 51	4 37	12 27	12 57	18 53	3 43	5 41
T 29	9 19	1 10	2 32	15 7	0 21	4 30	1 17	16 23	1 10			15 59	1 27	10 45	0 48	20 35	0 20	18 51	4 37	12 24	12 56	18 51	3 44	5 41
F 30	8 58	4 s 3 0	1 33	15 6	0 5	3 59		-		22 59			1 27	10 46	0 48	20 35	0 20	18 51	4 37	12 23	12 55	18 48	3 45	5 41
S 31	8n36	10s 4	0n28	15n 1	0n 9	3n29	1n15	15n59	1n10	22n59	0s 9	16s 2	1 s27	10 s46	0 s48	20 s35	0n20	18n51	4 s 3 8	12n23	12n54	18n46	3 s46	5n41

Julian Day Number = 2330862.5, Delta T = 30.01 sec Ecliptic obliquity =  $23^{\circ}29'04$ , Nutation = -  $0^{\circ}00'09$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}07'41$ , Lahiri =  $19^{\circ}14'42$ Greg. Calendar

SEPTEMBER 1669 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	♂ <sup>™</sup>	4	ħ	)∤(	¥	Б	U	ಜಿ	Ç	ķ	Day
S 1	22 42 31	8 <b>m</b> 55'15	9 <b>M</b> 42	21& 3	25 <b>m</b> 22	20€32	9956	20°R32	4°R 4	26°R23	19944	2 <b>8</b> 32	4 <b>8</b> 1	22 <b>\O</b> 18	6°R42	S 1
M 2	22 46 28	9°53'30	22°25	22°16	26°36	21°10	10° 5	20≈28	4 <b>) (</b> 1	26 <b>궁</b> 21	1°44	2°33	3°58	22°25	6 <b>∺</b> 39	M 2
T 3	22 50 24	10°51'46	5 <b>₹</b> 28	23°36	27°51	21°48	10°15	20°24	3°59	26°20	1°45	2°R34	3°55	22°32	6°36	T 3
W 4	22 54 21	11°50'03	18°53	25° 1	29° 5	22°26	10°25	20°20	3°57	26°19	1°46	2°34	3°51	22°38	6°34	W 4
T 5	22 58 17	12°48'23	2 <b>る</b> 44	26°30	0 <b>ჲ</b> 19	23° 4	10°34	20°16	3°54	26°18	1°46	2°32	3°48	22°45	6°31	T 5
F 6	23 2 14	13°46'43	17° 2	28° 5	1°33	23°42	10°44	20°12	3°52	26°17	1°47	2°28	3°45	22°52	6°28	F 6
S 7	23 6 10	14°45'06	1≈43	29°43	2°47	24°20	10°53	20° 8	3°49	26°16	1°48	2°23	3°42	22°59	6°25	S 7
S 8	23 10 7	15°43'30	16°43	1 <b>m</b> ) 24	4° 1	24°58	11° 2	20° 4	3°47	26°16	1°48	2°16	3°39	23° 5	6°22	S 8
M 9	23 14 4	16°41'55	1 <b>米</b> 53	3° 8	5°15	25°36	11°11	20° 0	3°45	26°15	1°49	2° 9	3°36	23°12	6°19	M 9
T 10	23 18 0	17°40'22	17° 4	4°54	6°29	26°14	11°20	19°56	3°43	26°14	1°49	2° 3	3°32	23°19	6°16	T 10
W11	23 21 57	18°38'51	2 <b>Υ</b> 6	6°42	7°43	26°52	11°28	19°53	3°40	26°13	1°50	1°58	3°29	23°25	6°14	W11
T 12	23 25 53	19°37'23	16°48	8°31	8°57	27°30	11°37	19°49	3°38	26°12	1°50	1°55	3°26	23°32	6°11	T 12
F 13	23 29 50	20°35'56	18 7	10°22	10°11	28° 8	11°46	19°46	3°36	26°11	1°50	1°D54	3°23	23°39	6° 8	F 13
S 14	23 33 46	21°34'31	14°57	12°13	11°26	28°46	11°54	19°42	3°33	26°11	1°51	1°55	3°20	23°46	6° 5	S 14
S 15	23 37 43	22°33'09	28°20	14° 4	12°40	29°23	12° 2	19°39	3°31	26°10	1°51	1°56	3°16	23°52	6° 2	S 15
M16	23 41 39	23°31'49	11 <b>II</b> 18	15°56	13°54	0 <b>m</b> y 1	12°10	19°35	3°29	26° 9	1°52	1°58	3°13	23°59	6° 0	M16
T 17	23 45 36	24°30'31	23°54	17°47	15° 8	0°39	12°18	19°32	3°27	26° 8	1°52	1°R58	3°10	24° 6	5°57	T 17
W18	23 49 33	25°29'16	69512	19°39	16°22	1°17	12°26	19°29	3°25	26° 8	1°52	1°58	3° 7	24°12	5°54	W18
T 19	23 53 29	26°28'02	18°17	21°30	17°36	1°55	12°34	19°26	3°22	26° 7	1°53	1°56	3° 4	24°19	5°52	T 19
F 20	23 57 26	27°26'51	$0\Omega$ 14	23°20	18°50	2°33	12°41	19°23	3°20	26° 7	1°53	1°52	3° 1	24°26	5°49	F 20
S 21	0 1 22	28°25'42	12° 6	25°10	20° 4	3°11	12°49	19°20	3°18	26° 6	1°53	1°47	2°57	24°33	5°46	S 21
S 22	0 5 19	29°24'36	23°57	26°59	21°18	3°48	12°56	19°17	3°16	26° 6	1°53	1°41	2°54	24°39	5°44	S 22
M23	0 9 15	0 <b>ჲ</b> 23'31	5 <b>m</b> 50	28°48	22°32	4°26	13° 3	19°14	3°14	26° 5	1°54	1°35	2°51	24°46	5°41	M23
T 24	0 13 12	1°22'29	17°47	0 <b>ჲ</b> 36	23°46	5° 4	13°10	19°11	3°12	26° 5	1°54	1°30	2°48	24°53	5°39	T 24
W25	0 17 8	2°21'28	29°50	2°23	25° 0	5°42	13°17	19° 8	3°10	26° 4	1°54	1°26	2°45	24°59	5°36	W25
T 26	0 21 5	3°20'30	12 <b>♀</b> 0	4° 9	26°14	6°19	13°24	19° 6	3°8	26° 4	1°54	1°23	2°42	25° 6	5°34	T 26
F 27	0 25 1	4°19'34	24°19	5°54	27°28	6°57	13°30	19° 3	3° 6	26° 3	1°54	1°21	2°38	25°13	5°31	F 27
S 28	0 28 58	5°18'40	6 <b>M</b> .48	7°39	28°42	7°35	13°37	19° 1	3° 4	26° 3	1°54	1°D21	2°35	25°20	5°29	S 28
S 29	0 32 55	6°17'47	19°29	9°22	29°56	8°13	13°43	18°58	3° 2	26° 3	1°54	1°22	2°32	25°26	5°26	S 29
M30	0 36 51	7 <b>≙</b> 16'57	2 <b>×</b> 124	11 <b>º</b> 5	1 <b>M</b> 10	8 <b>m</b> 50	139549	18 <b>≈</b> 56	3 <b>∺</b> 0	26 <b>궁</b> 3	1954	1823	2829	25 <b>Ω</b> 33	5 <b>¥</b> 24	M30

Day	0	D	Š	<b></b>	φ		C	7	2	4		ħ	)	f(	<del>,</del>	(	Е	2	n	ß	Ç	Ł	5
	decl	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	dec	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1			8 14n53	0n23	2n58		15n47		22n58				10 s47		20 s35	0n20				12n53		3 s47	5n41
M 2	7 52		-	0 36	2 28	-			22 58	0 9	-		10 48		20 35	0 20				12 52		3 48	5 41
T 3	7 30	24 0 2 4	-		1 57	1 11			22 57	0 8		5 1 27			20 36	0 20					18 38	3 49	5 41
W 4	7 8	26 43 3 4		0 59	1 26	-			22 56	0 8		7 1 27		-		0 20					18 36	3 51	5 41
T 5 F 6	6 46	27 55 4 2 27 18 4 5		1 /	0 55 0 24	1 8 1 7		1 11	22 56 22 55	0 8		3 1 27 0 1 27		0 48	20 36 20 36	0 20 0 20	18 51 18 51			12 49 12 47		3 52 3 53	5 40 5 40
S 7			8 12 55		0 24 0s 7		14 46		22 53				10 52		20 36	0 20				12 47		3 54	5 40
	-																						
S 8	5 38		8 12 25		0 38		14 21		22 54	0 8			10 53		20 37	0 20					18 26	3 55	5 40
M 9	5 16	14 59 4 2	-		1 9		-		22 53	0 8			10 54	-	20 37	0 20					18 23	3 56	5 40
T 10	4 53	8 28 3 3	-		1 40	-			22 52	0 8			10 55	-	20 37	0 20				-	18 20	3 58	5 40
W11	4 30		10 41	1 45	2 11				22 52	0 8			10 56	-	20 37	0 20					18 18	3 59	5 40
T 12	4 7	5n22 1 2			2 42	0 56			22 51	0 8			10 57		20 37	0 20			12 10		18 15	4 0	5 40
F 13 S 14	3 44		4 9 23		3 13		-		22 50	0 8		-	10 57	-	20 38	0 20				12 40		4 1	5 39
	3 21	17 28 1n1	0 8 41	1 50	3 44	0 52	13 4	1 13	22 50	0 7	16 1	1 2	10 58	0 48	20 38	0 20	18 50	4 38	12 10	12 39	18 10	4 2	5 39
S 15	2 58	22 5 2 1	9 7 58	1 50	4 14	0 50	12 51		22 49	0 7			10 59	0 48	20 38	0 20	18 50			12 38		4 3	5 39
M16	2 34			1 49	4 45				22 48	0 7						0 20	18 50			12 37		4 4	5 39
T 17	2 11		5 6 30	1 48	5 16	0 46			22 48	0 7						0 20	18 50			12 36		4 6	5 39
W18	1 48		5 44		5 46				22 47	0 7					20 38	0 20				12 34		4 7	5 39
T 19	1 24		2 4 58		6 17		11 57		22 46	0 7					20 38	0 20					17 57	4 8	5 38
F 20			1 4 12		6 47		11 44		22 46						20 39	0 20		4 39		_		4 9	5 38
S 21	0 38	22 5 5	6 3 25	1 38	7 17	0 37	11 30	1 13	22 45	0 7	16 2	5 1 27	11 4	0 48	20 39	0 20	18 50	4 39	12 7	12 31	17 52	4 10	5 38
S 22	0 14	18 5 4 4	8 2 38	1 34	7 47	0 35	11 16	1 14	22 45	0 7	16 2	7 1 27	11 4	0 48	20 39	0 20	18 50	4 39	12 5	12 30	17 50	4 11	5 38
M23	0s 9	13 23 4 1	8 1 51	1 30	8 17	0 32	11 3	1 14	22 44	0 7	16 2	3 1 27	11 5	0 48	20 39	0 20	18 50	4 39	12 3	12 29	17 47	4 12	5 38
T 24	0 33	8 9 3 3	66 1 4	1 25	8 47	0 30	10 49	1 14	22 43	0 7	16 2	9 1 27	11 6	0 48	20 39	0 20	18 50	4 39	12 1	12 28	17 45	4 14	5 37
W25	0 56	2 34 2 4	4 0 17	1 20	9 16				22 43	0 6	16 2					0 20		4 39				4 15	5 37
T 26	1 20	3 s 9 1 4		1 15	9 46		-		22 42	0 6				-	20 39	0 20	18 49			12 26		4 16	5 37
F 27	1 43	8 51 0 3		1 10	10 15	-			22 42	0 6				-	20 39	0 20	18 49			12 25		4 17	5 37
S 28	2 7	14 17 0s3	0 2 4	1 4	10 43	0 20	9 53	1 14	22 41	0 6	16 3	2 1 27	11 9	0 48	20 39	0 20	18 49	4 39	11 58	12 24	17 34	4 18	5 37
S 29	2 30	19 12 1 3	8 2 50	0 58	11 12	0 17	9 39	1 14	22 41	0 6	16 3	1 27	11 9	0 48	20 40	0 20	18 49	4 39	11 58	12 22	17 31	4 19	5 36
M30	2 s54	23 s20 2 s <sup>2</sup>	3 s36	0n52	11 s40	0n15	9n25	1n14	22n40	0s 6	16s3	1 s27	11 s10	0 s48	20 s40	0n20	18n49	4 s 3 9	11n59	12n21	17n29	4 s 2 0	5n36

 $\label{eq:Julian Day Number = 2330893.5, Delta\ T = 29.96\ sec} \\ Ecliptic\ obliquity = 23°29'04, Nutation = -0°00'09, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 20°07'46, Lahiri = 19°14'46Greg.\ Calendar \\ \\$ 

OCTOBER 1669 GC 00:00 UT

Day	Sid.t	0	D	ğ	Q.	♂ <sup>™</sup>	4	ħ	)∤(	¥	Р	n	Ω	Ç	ķ	Day
T 1	0 40 48	8 <b>₾</b> 16'08	15 <b>₹</b> 34	12 <b>≏</b> 47	2 <b>M</b> 24	9 <b>m</b> 28	13955	18°R54	2°R59	26°R 2	1954	1825	2 <b>8</b> 26	25 <b>Ω</b> 40	5°R22	T 1
W 2	0 44 44	9°15'22	29° 2	14°29	3°38	10° 6	14° 1	18≈52	2 <b>)</b> 57	26 <b>궁</b> 2	1°R54	1°26	2°22	25°46	5 <b>)</b> 19	W 2
T 3	0 48 41	10°14'37	12 <b>る</b> 48	16° 9	4°52	10°43	14° 6	18°50	2°55	26° 2	1°54	1°R26	2°19	25°53	5°17	T 3
F 4	0 52 37	11°13'54	26°54	17°49	6° 6	11°21	14°12	18°48	2°53	26° 2	1°54	1°26	2°16	26° 0	5°15	F 4
S 5	0 56 34	12°13'12	11≈17	19°27	7°20	11°59	14°17	18°46	2°52	26° 2	1°54	1°24	2°13	26° 7	5°13	S 5
S 6	1 0 30	13°12'32	25°55	21° 6	8°34	12°36	14°22	18°45	2°50	26° 2	1°54	1°22	2°10	26°13	5°11	S 6
M 7	1 4 27	14°11'54	10 <b>) (</b> 43	22°43	9°48	13°14	14°27	18°43	2°48	26° 2	1°54	1°20	2° 7	26°20	5° 9	M 7
T 8	1 8 24	15°11'18	25°33	24°20	11° 2	13°52	14°32	18°41	2°47	26°D 2	1°54	1°18	2° 3	26°27	5° 7	T 8
W 9	1 12 20	16°10'44	10 <b>Υ</b> 18	25°56	12°15	14°29	14°36	18°40	2°45	26° 2	1°54	1°16	2° 0	26°33	5° 5	W 9
T 10	1 16 17	17°10'12	24°50	27°31	13°29	15° 7	14°41	18°39	2°44	26° 2	1°54	1°D15	1°57	26°40	5° 3	T 10
F 11	1 20 13	18° 9'42	9 <b>8</b> 4	29° 5	14°43	15°44	14°45	18°37	2°42	26° 2	1°53	1°15	1°54	26°47	5° 1	F 11
S 12	1 24 10	19° 9'14	22°55	0 <b>M</b> .39	15°57	16°22	14°49	18°36	2°41	26° 2	1°53	1°16	1°51	26°54	4°59	S 12
S 13	1 28 6	20° 8'48	6 <b>Ⅱ</b> 22	2°13	17°11	16°59	14°53	18°35	2°39	26° 2	1°53	1°17	1°47	27° 0	4°57	S 13
M14	1 32 3	21° 8'25	19°24	3°45	18°25	17°37	14°57	18°34	2°38	26° 2	1°53	1°18	1°44	27° 7	4°55	M14
T 15	1 35 59	22° 8'04	299 5	5°18	19°39	18°14	15° 0	18°34	2°37	26° 3	1°52	1°19	1°41	27°14	4°54	T 15
W16	1 39 56	23° 7'45	14°27	6°49	20°52	18°52	15° 4	18°33	2°36	26° 3	1°52	1°19	1°38	27°20	4°52	W16
T 17	1 43 53	24° 7'28	26°34	8°20	22° 6	19°29	15° 7	18°32	2°34	26° 3	1°52	1°R20	1°35	27°27	4°50	T 17
F 18	1 47 49	25° 7'14	8 <b>Ω</b> 32	9°50	23°20	20° 7	15°10	18°32	2°33	26° 3	1°51	1°19	1°32	27°34	4°49	F 18
S 19	1 51 46	26° 7'02	20°24	11°20	24°34	20°44	15°13	18°31	2°32	26° 4	1°51	1°19	1°28	27°41	4°47	S 19
S 20	1 55 42	27° 6'52	2 Mp 16	12°49	25°48	21°22	15°15	18°31	2°31	26° 4	1°51	1°18	1°25	27°47	4°46	S 20
M21	1 59 39	28° 6'45	14°10	14°18	27° 1	21°59	15°18	18°31	2°30	26° 5	1°50	1°18	1°22	27°54	4°44	M21
T 22	2 3 35	29° 6'39	26°12	15°46	28°15	22°37	15°20	18°31	2°29	26° 5	1°50	1°17	1°19	28° 1	4°43	T 22
W23	2 7 32	OM 6'35	8 <b>₾</b> 23	17°13	29°29	23°14	15°22	18°D31	2°28	26° 6	1°49	1°17	1°16	28° 7	4°42	W23
T 24	2 11 28	1° 6'34	20°45	18°40	0 <b>∡</b> 43	23°52	15°24	18°31	2°27	26° 6	1°49	1°D17	1°13	28°14	4°40	T 24
F 25	2 15 25	2° 6'34	3 <b>M</b> 20	20° 6	1°56	24°29	15°25	18°31	2°26	26° 7	1°48	1°R17	1° 9	28°21	4°39	F 25
S 26	2 19 22	3° 6'37	16°10	21°31	3°10	25° 6	15°27	18°31	2°25	26° 7	1°48	1°17	1° 6	28°27	4°38	S 26
S 27	2 23 18	4° 6'41	29°13	22°56	4°24	25°44	15°28	18°32	2°25	26° 8	1°47	1°17	1° 3	28°34	4°37	S 27
M28	2 27 15	5° 6'48	12 <b>×</b> 29	24°19	5°37	26°21	15°29	18°32	2°24	26° 9	1°47	1°17	1° 0	28°41	4°36	M28
T 29	2 31 11	6° 6'55	25°59	25°42	6°51	26°59	15°30	18°33	2°23	26° 9	1°46	1°16	0°57	28°48	4°35	T 29
W30	2 35 8	7° 7'05	9 <b>전</b> 41	27° 4	8° 5	27°36	15°31	18°34	2°23	26°10	1°45	1°15	0°53	28°54	4°34	W30
T 31	2 39 4	8M 7'16	23 <b>る</b> 33	28M26	9 <b>∡</b> 18	28 <b>m</b> 13	15931	18 <b>≈</b> 34	2 <b>∺</b> 22	26 <b>ට</b> 11	19945	1815	0 <b>8</b> 50	29 <b>Ω</b> 1	4 <b>)</b> €33	T 31

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T 1 W 2		26 s21 3 s40 27 55 4 26	5 7	0n46 12s 9 0 39 12 36	0 9 8 :	7 1 15	22n40 22 39	0 6	16 34	1 27	11 s10 11 11	0 48	20 40	0 20	18n49 18 49	4 39	-	12 19	17 24	4 s21 4 22	5n36 5 36
T 3 F 4 S 5	4 4 4 27 4 50	27 49 4 59 25 57 5 14 22 23 5 10	6 36	0 33 13 4 0 26 13 31 0 20 13 58	0 4 8 3	28 1 15	22 39 22 38 22 38	0 6	16 35 16 35 16 36	1 27	11 12 11 12 11 13	0 48	20 40	0 19	18 49 18 49 18 49	4 39 4 39 4 39	12 0	12 18 12 17 12 16		4 23 4 24 4 25	5 35 5 35 5 35
S 6 M 7 T 8 W 9	5 37 6 0 6 23	17 24 4 47 11 19 4 4 4 36 3 5 2n21 1 53	8 46 9 28 10 9	0 13 14 25 0 6 14 51 0s 1 15 17 0 8 15 42	0 4 7 4 0 7 7 3 0 10 7	15 1 15 11 1 15 16 1 15	22 37 22 37 22 36 22 36	0 5 0 5 0 5	16 36 16 37 16 37 16 38	1 26 1 26 1 26	11 13 11 14 11 15 11 15	0 48 0 48 0 48	20 40 20 40 20 40	0 19 0 19 0 19	18 49 18 49 18 49 18 49	4 39 4 40 4 40	11 57 11 57 11 56	12 14 12 13 12 12	17 5	4 26 4 27 4 28 4 29	5 34 5 34 5 34 5 34
T 10 F 11 S 12	6 45 7 8 7 31	15 13 0n43		0 15 16 7 0 22 16 32 0 28 16 56	0 16 6	7 1 15	22 36 22 35 22 35	0 5 0 5 0 5		1 26	11 16 11 16 11 17	0 48	20 40	0 19	18 49 18 49 18 49	4 40	11 56 11 56 11 56	12 9	17 0	4 30 4 31 4 32	5 33 5 33 5 33
S 13 M14 T 15 W16 T 17 F 18 S 19	8 16 8 38 9 0 9 22 9 44	26 59 3 56 28 5 4 37 27 43 5 3 26 3 5 16 23 13 5 14	13 27	0 35 17 20 0 42 17 43 0 49 18 6 0 56 18 29 1 2 18 51 1 9 19 13 1 15 19 34	0 24 6 0 27 5 4 0 30 5 3 0 32 5 3 0 35 5	4 1 16 19 1 16 14 1 16 20 1 16 5 1 16	22 34 22 34 22 34 22 34 22 33 22 33 22 33 22 33	0 5 0 5 0 4 0 4 0 4 0 4	16 39 16 39 16 39 16 40	1 26 1 26 1 26 1 26 1 26	11 17 11 18 11 18 11 18 11 19 11 19 11 20	0 48 0 47 0 47 0 47 0 47	20 40 20 40 20 40 20 40 20 40	0 19 0 19 0 19 0 19 0 19	18 49 18 48 18 48 18 48 18 48 18 48 18 48	4 40 4 40 4 40 4 40 4 40	11 57 11 57 11 57 11 57 11 57 11 57 11 57	12 6 12 5 12 4 12 3 12 2	16 49 16 46	4 33 4 34 4 35 4 36 4 37 4 38 4 38	5 32 5 32 5 32 5 32 5 31 5 31 5 31
S 20 M21 T 22 W23 T 24 F 25 S 26	10 49 11 11 11 32 11 53	4 18 3 3 1 s26 2 4 7 13 0 58 12 50 0 s11	17 33 18 5 18 36 19 6 19 35	1 22 19 54 1 28 20 14 1 34 20 34 1 40 20 53 1 46 21 11 1 51 21 29 1 57 21 46	0 44 4 2 0 46 4 0 49 3 3 0 52 3 3 0 55 3 3	21 1 16 6 1 16 51 1 16 66 1 16 22 1 16	22 33 22 33 22 32 22 32 22 32 22 32 22 32 22 32	0 4 0 4 0 4 0 3 0 3	16 40 16 40 16 40 16 40 16 39 16 39	1 26 1 25 1 25 1 25 1 25	11 20 11 20 11 21 11 21 11 21 11 22 11 22	0 47 0 47 0 47 0 47 0 47	20 40 20 40 20 40 20 39 20 39	0 19 0 19 0 19 0 19 0 19	18 48 18 48 18 48 18 48 18 48 18 48 18 48	4 40 4 40 4 40 4 40 4 40	11 57 11 57 11 57	11 58 11 57 11 56 11 55 11 54	16 33 16 30 16 27 16 24	4 39 4 40 4 41 4 42 4 42 4 43 4 44	5 30 5 30 5 30 5 29 5 29 5 29 5 28
S 27 M28 T 29 W30 T 31	13 15 13 35 13 55	25 47 3 29 27 44 4 19 28 2 4 55	20 30 20 56 21 21 21 45 22s 7	2 2 22 3 2 7 22 19 2 12 22 34 2 16 22 49 2 s 20 23 s 3	1 3 2 3 1 5 2 3 1 8 2	7 1 16 2 1 16 7 1 16	22 32 22 32 22 32 22 32 22 32 22n32	0 3 0 3 0 3 0 3 0s 3	16 39 16 39	1 25 1 25 1 25	11 22 11 22 11 23 11 23 11 s23	0 47 0 47 0 47	20 39 20 39 20 39	0 19 0 19 0 19	18 48 18 48 18 48 18 48 18n48	4 40 4 40 4 41	11 56 11 56 11 56	11 51 11 49 11 48	16 11	4 45 4 45 4 46 4 47 4s47	5 28 5 28 5 27 5 27 5 27

Julian Day Number = 2330923.5, Delta T = 29.90 sec Ecliptic obliquity =  $23^{\circ}29'04$ , Nutation = -  $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}07'50$ , Lahiri =  $19^{\circ}14'50$ Greg. Calendar

NOVEMBER 1669 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	并	Р	n	v	Ç	Ŷ,	Day
F 1	2 43 1	9M 7'29	7≈36	29 <b>TL</b> 46	10 <b>₹</b> 32	28 <b>m</b> 50	15931	18≈35	2°R21	26 <b>궁</b> 12	1°R44	1°D15	0 <b>8</b> 47	29⋒8	4°R32	F 1
S 2	2 46 57	10° 7'43	21°48	1 <b>√</b> 5	11°46	29°28	15°R31	18°36	2 <b>∺</b> 21	26°13	19543	1815	0°44	29°14	4 <b>∺</b> 31	S 2
S 3	2 50 54	11° 7'58	6 <b>¥</b> 5	2°22	12°59	0 <b>호</b> 5	15°31	18°37	2°20	26°13	1°43	1°15	0°41	29°21	4°31	S 3
M 4	2 54 51	12° 8'15	20°26	3°39	14°13	0°42	15°31	18°39	2°20	26°14	1°42	1°16	0°38	29°28	4°30	M 4
T 5	2 58 47	13° 8'33	<b>4</b> Υ48	4°53	15°26	1°19	15°30	18°40	2°20	26°15	1°41	1°17	0°34	29°35	4°29	T 5
W 6	3 2 44	14° 8'53	19° 5	6° 6	16°40	1°57	15°30	18°41	2°20	26°16	1°41	1°18	0°31	29°41	4°29	W 6
T 7	3 6 40	15° 9'15	3 <b>8</b> 13	7°17	17°53	2°34	15°29	18°43	2°19	26°17	1°40	1°R18	0°28	29°48	4°28	T 7
F 8	3 10 37	16° 9'38	17° 9	8°26	19° 7	3°11	15°28	18°45	2°19	26°18	1°39	1°18	0°25	29°55	4°28	F 8
S 9	3 14 33	17°10'03	0∏49	9°32	20°20	3°48	15°26	18°46	2°19	26°19	1°38	1°16	0°22	0 Mp 1	4°28	S 9
S 10	3 18 30	18°10'29	14°10	10°36	21°33	4°25	15°25	18°48	2°19	26°20	1°37	1°14	0°19	0° 8	4°27	S 10
M11	3 22 26	19°10'58	27°11	11°36	22°47	5° 3	15°23	18°50	2°D19	26°21	1°37	1°12	0°15	0°15	4°27	M11
T 12	3 26 23	20°11'28	9953	12°33	24° 0	5°40	15°21	18°52	2°19	26°23	1°36	1° 9	0°12	0°21	4°27	T 12
W13	3 30 20	21°12'00	22°17	13°26	25°14	6°17	15°19	18°54	2°19	26°24	1°35	1° 6	0° 9	0°28	4°27	W13
T 14	3 34 16	22°12'33	$4\Omega$ 27	14°14	26°27	6°54	15°17	18°57	2°19	26°25	1°34	1° 4	0° 6	0°35	4°D27	T 14
F 15	3 38 13	23°13'09	16°26	14°57	27°40	7°31	15°14	18°59	2°19	26°26	1°33	1° 3	0° 3	0°42	4°27	F 15
S 16	3 42 9	24°13'46	28°18	15°35	28°53	8° 8	15°11	19° 1	2°19	26°27	1°32	1°D 3	29 <b>Y</b> 59	0°48	4°27	S 16
S 17	3 46 6	25°14'24	10 <b>m</b> 10	16° 6	0중 7	8°45	15° 9	19° 4	2°20	26°29	1°31	1° 4	29°56	0°55	4°27	S 17
M18	3 50 2	26°15'05	22° 5	16°29	1°20	9°22	15° 5	19° 6	2°20	26°30	1°30	1° 5	29°53	1° 2	4°27	M18
T 19	3 53 59	27°15'47	4 <b>º</b> 8	16°45	2°33	9°59	15° 2	19° 9	2°20	26°31	1°29	1° 7	29°50	1°8	4°28	T 19
W20	3 57 55	28°16'30	16°23	16°R52	3°46	10°36	14°59	19°12	2°21	26°33	1°28	1° 9	29°47	1°15	4°28	W20
T 21	4 1 52	29°17'16	28°55	16°50	4°59	11°13	14°55	19°15	2°21	26°34	1°27	1°R 9	29°44	1°22	4°28	T 21
F 22	4 5 49	0 <b>≯</b> 18'02	11 <b>M</b> .45	16°37	6°12	11°50	14°51	19°18	2°22	26°36	1°26	1° 9	29°40	1°29	4°29	F 22
S 23	4 9 45	1°18'51	24°54	16°13	7°26	12°27	14°47	19°21	2°23	26°37	1°25	1° 7	29°37	1°35	4°29	S 23
S 24	4 13 42	2°19'40	8 <b>₹</b> 22	15°39	8°39	13° 4	14°43	19°24	2°23	26°39	1°24	1° 3	29°34	1°42	4°30	S 24
M25	4 17 38	3°20'31	22° 6	14°53	9°52	13°41	14°38	19°28	2°24	26°40	1°23	0°59	29°31	1°49	4°30	M25
T 26	4 21 35	4°21'23	6 <b>ප</b> 4	13°58	11° 5	14°18	14°34	19°31	2°25	26°42	1°22	0°53	29°28	1°55	4°31	T 26
W27	4 25 31	5°22'16	20°11	12°52	12°17	14°55	14°29	19°34	2°25	26°43	1°21	0°48	29°25	2° 2	4°32	W27
T 28	4 29 28	6°23'09	4≈24	11°39	13°30	15°31	14°24	19°38	2°26	26°45	1°20	0°43	29°21	2° 9	4°32	T 28
F 29	4 33 25	7°24'04	18°37	10°20	14°43	16° 8	14°19	19°42	2°27	26°46	1°19	0°40	29°18	2°15	4°33	F 29
S 30	4 37 21	8 <b>~</b> 124'59	2 <b>)</b> 50	8 <b>₹</b> 58	15 <b>る</b> 56	16 <b>≏</b> 45	149514	19≈45	2 <b>)</b> 28	26 <b>궁</b> 48	19518	0°D39	29 <b>Υ</b> 15	2 <b>m</b> ) 22	4 <b>) (</b> 34	S 30

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F 1	14 s34	23 s28	5 s 1 5	22 s29	2 s24	23 s 16	1 s 1 3	1n38	1n16	22n32	0 s 2	16s38	1 s25	11 s23	0 s47	20 s 39	0n19	18n48	4s41	11n56	11n46	16n 2	4 s48	5n26
S 2	14 53	18 57	4 57	22 49	2 28	23 29	1 16	1 23	1 16	22 32	0 2	16 37	1 25	11 23	0 47	20 38	0 19	18 48	4 41	11 56	11 45	16 0	4 49	5 26
S 3	15 12	13 19	4 20	23 8	2 31	23 41	1 18	1 8	1 16	22 33	0 2	16 37	1 25	11 23	0 47	20 38	0 19	18 48	4 41	11 56	11 44	15 57	4 49	5 25
M 4	15 30			23 26			1 20	0 53		22 33	0 2			11 23		20 38					_	15 54	4 50	5 25
T 5	15 49	0 15	2 22		2 36			0 38		22 33	0 2			11 23		20 38		18 48			11 42		4 50	5 25
W 6	16 7			23 57	2 38			0 23		22 33	0 2			11 24		20 38		18 48				15 48	4 51	5 24
T 7 F 8	16 25	12 47 18 22		24 11 24 23	2 39 2 40		1 28 1 30	0 9 0s 6		22 33 22 34	0 2 0 2			11 24 11 24		20 38 20 37		18 48 18 48				15 46 15 43	4 51 4 52	5 24 5 24
S 9		22 54		24 23		24 32	1 30	0 21		22 34				11 24		20 37		18 48				15 40	4 52	5 23
S 10 M11	17 16	26 6 27 49		24 42	2 39			0 36		22 34 22 34		16 33		11 24		20 37		18 48				15 37	4 53	5 23
T 12	17 50			24 50 24 56				0 51		22 34 22 35	0 1 0 1			11 24 11 24		20 37 20 37		18 48 18 48				15 34 15 32	4 53 4 54	5 23 5 22
W13	18 6		5 11					1 20		22 35	0 1			11 23		20 37		18 48				15 29	4 54	5 22
T 14	-	24 16	5 14		2 30		-	1 35		22 36	0 1			11 23		20 36		18 48				15 26	4 54	5 21
F 15	18 37	20 46		25 2	2 25		1 44	1 49		22 36	0 1			11 23		20 36		18 48			11 31		4 55	5 21
S 16	18 52	16 27	4 40	25 0	2 19	25 15	1 46	2 4	1 16	22 36	0 1	16 28	1 24	11 23	0 46	20 36	0 19	18 48	4 41	11 52	11 29	15 20	4 55	5 21
S 17	19 7	11 33	4 5	24 57	2 12	25 17	1 48	2 19	1 16	22 37	0 0	16 27	1 24	11 23	0 46	20 36	0 19	18 48	4 41	11 52	11 28	15 17	4 55	5 20
M18	19 21	6 11	3 18	24 51	2 4	25 18	1 49	2 33	1 16	22 37	0 0	16 27	1 23	11 23	0 46	20 35	0 18	18 48	4 41	11 52	11 27	15 15	4 56	5 20
T 19	19 35	0 33	2 23	24 43	1 54	25 19	1 51	2 48	1 16	22 38	0 0	16 26	1 23	11 23	0 46	20 35	0 18	18 48	4 41	11 53	11 26	15 12	4 56	5 20
W20	19 49			24 33	1 43			3 2		22 38		16 25		11 23		20 35					11 25		4 56	5 19
T 21		10 55		24 20				3 17		22 39		16 24		11 22		20 35		18 48			11 24		4 56	5 19
F 22		16 18						3 32		22 40		16 23		11 22		20 34		18 48			11 23		4 56	5 18
S 23	20 28	21 4	2 6	23 47	1 1	25 13	1 57	3 46	1 16	22 40	0 0	16 22	1 23	11 22	0 46	20 34	0 18	18 48	4 41	11 53	11 22	15 0	4 57	5 18
S 24		24 51		23 26		25 10	1 58	4 0		22 41	0 0			11 22		20 34		18 48				14 58	4 57	5 18
M25	20 52			23 3				4 15		22 41	0 1			11 21		20 34		18 48				14 55	4 57	5 17
T 26	_	28 3		22 38	0 6		2 0	4 29		22 42	0 1			11 21		20 33		18 48			-	14 52	4 57	5 17
W27	21 14			22 10				4 44		22 43	0 1			11 21		20 33		18 48				14 49	4 57	5 17
T 28 F 29	_	24 13 19 57		21 40 21 9			2 2 2 2 3	4 58 5 12		22 43 22 44	0 1			11 20 11 20		20 33 20 33		18 48 18 48				14 46 14 43	4 57 4 57	5 16 5 16
S 30		19 57 14 s35		20 s37		24 43 24 s35		5 12 5 s26		22 44 22n45		16 15 16s14		11 20 11 s20		20 33 20 s32		18 48 18n48			-	14 43 14n40	4 57 4 s 5 7	5 16 5n15
3 30	21 543	14833	4523	20837	11114	24833	25 4	3 520	11113	221143	OII I	10514	1 523	11520	0540	20832	OHIO	101140	4541	111143	111114	141140	4557	31113

 $\label{eq:Julian Day Number = 2330954.5} \ Delta\ T = 29.85\ sec$   $Ecliptic\ obliquity = 23°29'04,\ Nutation = -0°00'10,\ out-of-bounds\ declination\ in\ red$   $Ayanamsha:\ Fagan/Bradley = 20°07'54,\ Lahiri = 19°14'55Greg.\ Calendar$ 

DECEMBER 1669 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	¥	Р	N.	ß	Ç	ķ	Day
S 1	4 41 18	9 <b>×</b> 125'55	16 <b>米</b> 58	7°R35	17る 9	17 <b>≏</b> 22	14°R 8	19≈49	2 <b>)</b> 29	26 <b>ප</b> 50	1°R17	0 <b>8</b> 39	29 <b>Υ</b> 12	2 <b>m</b> 29	4 <b>)</b> (35	S 1
M 2	4 45 14	10°26'52	1 <b>Υ</b> 0	6 <b>₹</b> 15	18°21	17°59	1495 3	19°53	2°30	26°51	19516	0°40	29° 9	2°36	4°36	M 2
T 3	4 49 11	11°27'49	14°57	4°59	19°34	18°35	13°57	19°57	2°31	26°53	1°14	0°41	29° 5	2°42	4°37	T 3
W 4	4 53 7	12°28'47	28°45	3°51	20°47	19°12	13°51	20° 1	2°32	26°55	1°13	0°R42	29° 2	2°49	4°38	W 4
T 5	4 57 4	13°29'46	12826	2°51	21°59	19°49	13°45	20° 5	2°34	26°57	1°12	0°41	28°59	2°56	4°40	T 5
F 6	5 1 0	14°30'45	25°56	2° 2	23°12	20°25	13°39	20° 9	2°35	26°58	1°11	0°39	28°56	3° 2	4°41	F 6
S 7	5 4 57	15°31'46	9∏14	1°24	24°24	21° 2	13°33	20°14	2°36	27° 0	1°10	0°34	28°53	3° 9	4°42	S 7
S 8	5 8 54	16°32'47	22°20	0°57	25°37	21°38	13°26	20°18	2°37	27° 2	1° 9	0°27	28°50	3°16	4°44	S 8
M 9	5 12 50	17°33'49	59911	0°41	26°49	22°15	13°20	20°23	2°39	27° 4	1° 8	0°18	28°46	3°22	4°45	M 9
T 10	5 16 47	18°34'51	17°46	0°D36	28° 1	22°52	13°13	20°27	2°40	27° 6	1° 6	0° 9	28°43	3°29	4°46	T 10
W11	5 20 43	19°35'55	$0\Omega$ 8	0°41	29°13	23°28	13° 6	20°32	2°42	27° 8	1° 5	29 <b>Y</b> 59	28°40	3°36	4°48	W11
T 12	5 24 40	20°36'59	12°16	0°55	0≈25	24° 5	12°59	20°37	2°43	27°10	1° 4	29°52	28°37	3°43	4°50	T 12
F 13	5 28 36	21°38'04	24°14	1°18	1°37	24°41	12°52	20°41	2°45	27°12	1° 3	29°46	28°34	3°49	4°51	F 13
S 14	5 32 33	22°39'10	6Mp 6	1°48	2°49	25°17	12°45	20°46	2°46	27°13	1° 2	29°42	28°31	3°56	4°53	S 14
S 15	5 36 29	23°40'17	17°56	2°26	4° 1	25°54	12°38	20°51	2°48	27°15	1° 0	29°40	28°27	4° 3	4°55	S 15
M16	5 40 26	24°41'24	29°49	3° 9	5°13	26°30	12°30	20°56	2°50	27°17	0°59	29°D40	28°24	4° 9	4°56	M16
T 17	5 44 23	25°42'32	11 <b>≏</b> 51	3°58	6°25	27° 7	12°23	21° 1	2°52	27°19	0°58	29°41	28°21	4°16	4°58	T 17
W18	5 48 19	26°43'41	24° 6	4°51	7°37	27°43	12°15	21° 6	2°53	27°21	0°57	29°R42	28°18	4°23	5° 0	W18
T 19	5 52 16	27°44'51	6 <b>M</b> .39	5°49	8°48	28°19	12° 8	21°12	2°55	27°23	0°56	29°41	28°15	4°29	5° 2	T 19
F 20	5 56 12	28°46'01	19°36	6°50	10° 0	28°56	12° 0	21°17	2°57	27°25	0°54	29°39	28°11	4°36	5° 4	F 20
S 21	6 0 9	29°47'11	2 <b>₹</b> 56	7°55	11°11	29°32	11°52	21°22	2°59	27°28	0°53	29°35	28° 8	4°43	5° 6	S 21
S 22	6 4 5	0る48'23	16°42	9° 3	12°22	OM 8	11°45	21°28	3° 1	27°30	0°52	29°28	28° 5	4°50	5° 8	S 22
M23	6 8 2	1°49'34	0 <b>궁</b> 51	10°13	13°34	0°44	11°37	21°33	3° 3	27°32	0°51	29°19	28° 2	4°56	5°11	M23
T 24	6 11 58	2°50'46	15°17	11°26	14°45	1°20	11°29	21°39	3° 5	27°34	0°49	29° 8	27°59	5° 3	5°13	T 24
W25	6 15 55	3°51'58	29°54	12°40	15°56	1°56	11°21	21°44	3° 7	27°36	0°48	28°58	27°56	5°10	5°15	W25
T 26	6 19 52	4°53'10	14≈35	13°56	17° 7	2°32	11°13	21°50	3° 9	27°38	0°47	28°48	27°52	5°16	5°17	T 26
F 27	6 23 48	5°54'21	29°11	15°14	18°18	3° 8	11° 5	21°56	3°12	27°40	0°46	28°41	27°49	5°23	5°20	F 27
S 28	6 27 45	6°55'33	13 <b>∺</b> 38	16°33	19°29	3°44	10°57	22° 2	3°14	27°42	0°45	28°36	27°46	5°30	5°22	S 28
S 29	6 31 41	7°56'44	27°52	17°54	20°39	4°20	10°49	22° 7	3°16	27°45	0°43	28°34	27°43	5°36	5°25	S 29
M30	6 35 38	<u>8</u> °57'54	11 <b>Y</b> 50	19°16	21°50	4°56	10°40	22°13	3°18	2 <u>7°</u> 47	0°42	28°D34	27°40	5°43	5°27	M30
T 31	6 39 34	9 <b>궁</b> 59'05	25 <b>Y</b> 34	20 <b>∡</b> 38	23≈ 0	5 <b>M</b> 32	10932	22≈19	3 <b>∺</b> 21	27 <b>る</b> 49	0941	28°R34	27 <b>Y</b> 37	5 <b>m</b> /50	5 <b>)</b> €30	T 31

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Julian Day Number = 2330984.5, Delta T = 29.80 sec Ecliptic obliquity =  $23^{\circ}29'04$ , Nutation = -  $0^{\circ}00'09$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $20^{\circ}07'58$ , Lahiri =  $19^{\circ}14'59Greg$ . Calendar