

Astrodienst Ephemeris Tables for the year 1689

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 1689 GC 00:00 UT

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Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(¥	В	n	v	Ç	Ŗ	Day
S 1	6 45 5	11 3 23'48	7 8 24	18 × 23	10≈33	0 ∡ 35	2≈58	5 M 28	19°R 9	8 ∺ 39	24°R16	20°R39	20 ° 3	28 ♀ 57	23°R30	S 1
S 2	6 49 2	12°24'58	21°42	19°26	11°48	1°16	3°11	5°32	198 8	8°41	249915	20 Y 37	20° 0	29° 3	23828	S 2
M 3	6 52 58	13°26'07	6 I I 4	20°31	13° 2	1°58	3°25	5°36	19° 6	8°42	24°13	20°31	19°57	29°10	23°26	M 3
T 4	6 56 55	14°27'16	20°24	21°38	14°16	2°39	3°39	5°40	19° 5	8°44	24°12	20°22	19°54	29°17	23°24	T 4
W 5	7 0 51	15°28'25	4938	22°48	15°30	3°20	3°53	5°44	19° 4	8°45	24°11	20°11	19°51	29°23	23°22	W 5
T 6	7 4 48	16°29'33	18°40	24° 0	16°44	4° 1	4° 7	5°48	19° 3	8°47	24°10	19°58	19°47	29°30	23°21	T 6
F 7	7 8 45	17°30'41	$2\Omega 24$	25°14	17°59	4°42	4°21	5°52	19° 2	8°48	24° 8	19°45	19°44	29°37	23°19	F 7
S 8	7 12 41	18°31'48	15°47	26°30	19°13	5°24	4°35	5°55	19° 1	8°50	24° 7	19°33	19°41	29°43	23°18	S 8
S 9	7 16 38	19°32'55	28°48	27°47	20°27	6° 5	4°49	5°59	19° 0	8°51	24° 6	19°23	19°38	29°50	23°16	S 9
M10	7 20 34	20°34'02	11 m) 27	29° 5	21°41	6°46	5° 3	6° 2	18°59	8°53	24° 4	19°16	19°35	29°57	23°15	M10
T 11	7 24 31	21°35'08	23°46	0 궁 25	22°55	7°28	5°17	6° 6	18°59	8°55	24° 3	19°12	19°32	OM 3	23°13	T 11
W12	7 28 27	22°36'15	5 ₽ 50	1°46	24° 8	8° 9	5°31	6° 9	18°58	8°56	24° 2	19°10	19°28	0°10	23°12	W12
T 13	7 32 24	23°37'21	17°43	3° 8	25°22	8°50	5°45	6°12	18°57	8°58	24° 0	19°10	19°25	0°17	23°11	T 13
F 14	7 36 20	24°38'26	29°31	4°31	26°36	9°32	5°59	6°15	18°57	9° 0	23°59	19°10	19°22	0°23	23°10	F 14
S 15	7 40 17	25°39'32	11 M .19	5°55	27°50	10°13	6°13	6°19	18°56	9° 2	23°58	19° 9	19°19	0°30	23° 9	S 15
S 16	7 44 14	26°40'36	23°14	7°20	29° 4	10°55	6°28	6°22	18°55	9° 3	23°56	19° 6	19°16	0°37	23° 8	S 16
M17	7 48 10	27°41'41	5 ₹ 19	8°45	0) (17	11°36	6°42	6°24	18°55	9° 5	23°55	19° 1	19°12	0°43	23° 7	M17
T 18	7 52 7	28°42'45	17°39	10°12	1°31	12°18	6°56	6°27	18°54	9° 7	23°54	18°53	19° 9	0°50	23° 6	T 18
W19	7 56 3	29°43'48	0 궁 17	11°39	2°45	12°59	7°10	6°30	18°54	9° 9	23°52	18°42	19° 6	0°56	23° 5	W19
T 20	8 0 0	0≈44'51	13°14	13° 7	3°58	13°41	7°25	6°32	18°54	9°11	23°51	18°30	19° 3	1° 3	23° 4	T 20
F 21	8 3 56	1°45'53	26°30	14°36	5°12	14°23	7°39	6°35	18°53	9°13	23°50	18°17	19° 0	1°10	23° 4	F 21
S 22	8 7 53	2°46'55	10≈ 3	16° 6	6°25	15° 4	7°53	6°37	18°53	9°15	23°48	18° 4	18°57	1°16	23° 3	S 22
S 23	8 11 49	3°47'55	23°50	17°36	7°39	15°46	8° 7	6°40	18°53	9°17	23°47	17°53	18°53	1°23	23° 2	S 23
M24	8 15 46	4°48'54	7) (47	19° 7	8°52	16°28	8°22	6°42	18°53	9°18	23°46	17°45	18°50	1°30	23° 2	M24
T 25	8 19 43	5°49'52	21°50	20°39	10° 5	17° 9	8°36	6°44	18°53	9°20	23°44	17°40	18°47	1°36	23° 2	T 25
W26	8 23 39	6°50'48	5 ℃ 57	22°11	11°18	17°51	8°50	6°46	18°D53	9°22	23°43	17°37	18°44	1°43	23° 1	W26
T 27	8 27 36	7°51'43	20° 4	23°44	12°32	18°33	9° 5	6°48	18°53	9°24	23°42	17°D37	18°41	1°50	23° 1	T 27
F 28	8 31 32	8°52'37	4810	25°18	13°45	19°15	9°19	6°50	18°53	9°26	23°41	17°R37	18°38	1°56	23° 1	F 28
S 29	8 35 29	9°53'30	18°15	26°53	14°58	19°56	9°33	6°51	18°53	9°28	23°39	17°37	18°34	2° 3	23° 1	S 29
S 30	8 39 25	10°54'21	2 Ⅱ 17	28°28	16°11	20°38	9°47	6°53	18°53	9°30	23°38	17°35	18°31	2°10	23°D 1	S 30
M31	8 43 22	11≈55'11	16 I I16	0≈ 4	17 米 24	21 ~ 20	10≈ 2	6 M .54	18 8 54	9 米 33	23937	17 Y 31	18 Y 28	2 M .16	238 1	M31

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23 s 0	15n23	1n27	21 s12	1n47	19s18	1 s44	20 s 4	0n15	20s 4	0 s33	11s 7	2n23	17n16	0s17	9s12	0 s56	23n44	2n28	8n 5	7n51	11 s52	15n 8	3 s40
S 2	22 54	20 44	2 36	21 26	1 38	18 57	1 44	20 13	0 14	20 1	0 33	11 8	2 23	17 16	0 17	9 12	0 56	23 44	2 28	8 4	7 50	11 55	15 8	3 40
M 3	22 48			21 39	1 29	18 36		20 22		19 58	0 34		2 23			9 11	0 56		2 28	8 2	7 49			3 39
T 4	22 42			21 53	1 20	18 14	1 44			19 55		11 11	2 24			9 11	0 56		2 28	7 58	7 48		15 7	
W 5		28 13		-	1 12	17 52	1 43			19 52		11 12	2 24			9 10	0 56		2 28	7 54	7 46		15 7	
T 6 F 7	22 28			22 18	1 3 0 54	17 29	1 43			19 48		11 13	2 24			9 9	0 56		2 29	7 49	7 45	12 8 12 11	15 6	
S 8		24 25 20 25		22 30 22 41		17 6 16 42	1 42	20 56 21 4		19 45 19 42		11 14 11 15		17 14 17 14		9 9 9		23 46 23 46	2 29 2 29	7 44 7 40		12 11		
	22 12																							
S 9	22 3			22 51	0 36	-		21 12		19 39		11 16		17 14		9 8	0 56		2 29	7 36		12 17		
M10	21 54			23 1	0 28	15 53		21 20			0 34		2 25			9 7	0 56		2 29	7 33	7 40			
	21 45	-	2 10		0 20	15 28	1 40		0 8			11 18	2 25			9 6	0 56		2 29	7 32	7 39			
	21 35		1 10		0 11	15 3		21 35	0 8			11 19	2 25			9 6	0 56		2 29	7 31	7 38			
	21 25 21 14	6 51		23 24 23 29	0 3	14 37 14 11		21 42 21 49	0 7 0 6	19 25 19 22		11 19 11 20		17 13 17 13		9 5 9 4	0 56 0 56		2 29 2 29	7 31 7 31		12 30 12 33		
		17 4		23 29		13 45		21 56		19 18		11 20		17 13		9 4		23 48	2 29	7 31		12 36		
		21 21		23 37	0 20	-	1 34			19 15		11 22		17 13		9 3			2 29	7 30		12 39		
M17		24 48		23 39	0 27		1 33		0 4	19 11		11 22	2 26			9 2	0 56		2 29	7 28		12 43		
T 18 W19		27 11 28 14		23 40 23 40	0 35	12 23 11 55	1 32	22 15 22 21	0 3 0 3	19 8 19 4		11 23 11 24	2 27 2 27			9 2			2 29 2 29	7 25 7 21	7 31 7 30			
T 20		27 47		23 40		11 27			0 3			11 24	2 27			9 0		23 49	2 30	7 16	7 28			
F 21		25 46		23 35		10 58		22 33	0 1	18 57		11 25		17 12		8 59		23 50	2 30	7 11				
S 22		22 14		23 31		10 30		22 38		18 53		11 26		17 12		8 59		23 50	2 30			12 58		
S 23 M24	19 20 19 6	17 26 11 40		23 26 23 19	1 7 1 13	10 1 9 31	1 23	22 44 22 49	0s 0 0 1	18 50 18 46		11 26 11 27	2 28	17 12 17 12		8 58 8 57		23 50 23 51	2 30 2 30	7 2 6 59	7 25 7 24		15 4 15 4	3 37 3 37
T 25	18 51	-		23 19	1 13	9 31	1 22			18 40		11 27	2 28			8 57	0 56		2 30	6 57	7 22		15 4	
W26	18 36			23 11	1 24	8 32	1 18			18 39		11 27	2 29			8 56			2 30	6 56	7 21	13 11		
T 27	18 20			22 51	1 29	8 2	1 16			18 35		11 28	2 29			8 55		23 52	2 30	6 56	7 20			
F 28		14 18		22 39	1 34		1 13			18 31		11 28		17 12		8 54		23 52	2 30	6 56		13 17		
S 29		19 47		22 25	1 38	7 2		23 11		18 28		11 29		17 12		8 53		23 52	2 30			13 20		
S 30	17 32	24 9	3 34	22 10	1 42	6 31	1 9	23 15	0 6	18 24	0 35	11 29	2 30	17 12	0 16	8 53	0 56	23 52	2 30	6 55	7 16	13 23	15 4	3 36
M31	17 s15	27n 5	4n20	21 s54	1 s46	6s 0	1s 6	23 s19	0s 7	18 s20	0 s36	11 s29	2n30	17n13	0s16	8 s 5 2	0 s56	23n53	2n30	6n53	7n15	13 s26	15n 5	3 s36

 $\label{eq:Julian Day Number = 2337955.5, Delta\ T = 18.89\ sec} \\ Ecliptic\ obliquity = 23°28'55, Nutation = -0°00'05, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 20°23'57, Lahiri = 19°30'57Greg.\ Calendar \\ \\$

FEBRUARY 1689 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)ұ(¥	Р	ß	Ω	Ç	Ŷ,	Day
T 1	8 47 18	12≈55'59	099 9	1≈41	18) 36	22 × 2	10≈16	6 M .56	18 8 54	9 米 35	23°R36	17°R24	18 Υ 25	2M23	238 1	T 1
W 2	8 51 15	13°56'46	13°55	3°18	19°49	22°44	10°30	6°57	18°54	9°37	23934	17 Y 14	18°22	2°30	23° 1	W 2
T 3	8 55 12	14°57'31	27°30	4°56	21° 2	23°26	10°45	6°58	18°55	9°39	23°33	17° 3	18°18	2°36	23° 1	T 3
F 4	8 59 8	15°58'15	10 Ω 51	6°35	22°14	24° 7	10°59	6°59	18°55	9°41	23°32	16°52	18°15	2°43	23° 2	F 4
S 5	9 3 5	16°58'58	23°57	8°15	23°27	24°49	11°13	7° 0	18°56	9°43	23°31	16°42	18°12	2°50	23° 2	S 5
S 6	9 7 1	17°59'39	6 m 46	9°56	24°39	25°31	11°27	7° 1	18°56	9°45	23°29	16°34	18° 9	2°56	23° 3	S 6
M 7	9 10 58	19° 0'19	19°17	11°37	25°52	26°13	11°42	7° 2	18°57	9°47	23°28	16°27	18° 6	3° 3	23° 3	M 7
T 8	9 14 54	20° 0'57	1 ≏ 33	13°20	27° 4	26°55	11°56	7° 2	18°57	9°50	23°27	16°24	18° 3	3° 9	23° 4	T 8
W 9	9 18 51	21° 1'34	13°36	15° 3	28°16	27°38	12°10	7° 3	18°58	9°52	23°26	16°D23	17°59	3°16	23° 4	W 9
T 10	9 22 47	22° 2'10	25°29	16°47	29°28	28°20	12°24	7° 3	18°59	9°54	23°25	16°23	17°56	3°23	23° 5	T 10
F 11	9 26 44	23° 2'45	7 M ₊18	18°32	0 Υ 40	29° 2	12°39	7° 4	19° 0	9°56	23°24	16°24	17°53	3°29	23° 6	F 11
S 12	9 30 41	24° 3'19	19° 6	20°18	1°52	29°44	12°53	7° 4	19° 1	9°58	23°23	16°R25	17°50	3°36	23° 7	S 12
S 13	9 34 37	25° 3'51	1 √ 1	22° 5	3° 4	0 궁 26	13° 7	7° 4	19° 2	10° 0	23°21	16°25	17°47	3°43	23° 8	S 13
M14	9 38 34	26° 4'22	13° 6	23°52	4°16	1° 8	13°21	7°R 4	19° 3	10° 3	23°20	16°23	17°44	3°49	23° 9	M14
T 15	9 42 30	27° 4'52	25°27	25°41	5°28	1°50	13°35	7° 4	19° 4	10° 5	23°19	16°19	17°40	3°56	23°10	T 15
W16	9 46 27	28° 5'20	8 동	27°30	6°39	2°33	13°49	7° 4	19° 5	10° 7	23°18	16°13	17°37	4° 3	23°11	W16
T 17	9 50 23	29° 5'47	21°12	29°21	7°51	3°15	14° 3	7° 4	19° 6	10° 9	23°17	16° 6	17°34	4° 9	23°12	T 17
F 18	9 54 20	0 米 6'13	4 ≈ 39	1) 12	9° 2	3°57	14°18	7° 3	19° 7	10°12	23°16	15°58	17°31	4°16	23°14	F 18
S 19	9 58 17	1° 6'37	18°28	3° 4	10°13	4°39	14°32	7° 3	19° 8	10°14	23°15	15°50	17°28	4°23	23°15	S 19
S 20	10 2 13	2° 6'59	2) 37	4°56	11°24	5°22	14°46	7° 2	19°10	10°16	23°14	15°43	17°24	4°29	23°16	S 20
M21	10 6 10	3° 7'19	17° 0	6°50	12°35	6° 4	15° 0	7° 1	19°11	10°18	23°13	15°38	17°21	4°36	23°18	M21
T 22	10 10 6	4° 7'38	1 Y 30	8°44	13°46	6°46	15°14	7° 1	19°12	10°21	23°12	15°35	17°18	4°43	23°20	T 22
W23	10 14 3	5° 7'55	16° 3	10°38	14°57	7°29	15°27	7° 0	19°14	10°23	23°11	15°D35	17°15	4°49	23°21	W23
T 24	10 17 59	6° 8'09	0 8 33	12°33	16° 8	8°11	15°41	6°59	19°15	10°25	23°10	15°35	17°12	4°56	23°23	T 24
F 25	10 21 56	7° 8'22	14°56	14°28	17°19	8°53	15°55	6°58	19°17	10°28	23° 9	15°37	17° 9	5° 3	23°25	F 25
S 26	10 25 52	8° 8'32	29° 8	16°23	18°29	9°36	16° 9	6°56	19°18	10°30	23° 8	15°38	17° 5	5° 9	23°27	S 26
S 27	10 29 49	9° 8'41	13耳 8	18°18	19°39	10°18	16°23	6°55	19°20	10°32	23° 8	15°R38	17° 2	5°16	23°28	S 27
M28	10 33 45	10 米 8'47	26 Ⅱ 57	20 米 13	20 Υ 50	11중 1	16≈37	6M54	19822	10) 34	2395 7	15 Ƴ 37	16 Y 59	5 M 22	23830	M28

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T 1	16 s58	28n19	4n50	21 s36	1 s49	5 s 3 0	1 s 4	23 s22	0s 7	18s16	0 s36	11 s29	2n30	17n13	0s16	8s51	0 s 5 6	23n53	2n30	6n50	7n14	13 s29	15n 5	3 s36
W 2	16 40	27 46	5 3	21 17	1 53	4 59	1 1	23 25	0 8	18 13	0 36	11 29	2 30	17 13	0 16	8 50	0 56	23 53	2 30	6 47	7 13	13 33	15 5	3 35
T 3	16 23	25 34	4 58	20 56	1 56	4 28	0 59	23 28	0 9	18 9	0 36	11 30	2 31	17 13	0 16	8 50	0 56	23 53	2 30	6 43	7 11	13 36	15 5	3 35
F 4	16 5	21 59	4 38	20 34	1 58	3 57	0 56	23 31	0 10	18 5	0 36	11 30	2 31	17 13	0 16	8 49	0 56	23 54	2 30	6 38	7 10	13 39	15 5	3 35
S 5	15 46	17 22	4 2	20 10	2 0	3 25	0 53	23 34	0 11	18 1	0 36	11 30	2 31	17 13	0 16	8 48	0 56	23 54	2 30	6 35	7 9	13 42	15 6	3 35
S 6	15 28	12 4	3 15	19 45	2 2	2 54	0 50	23 36	0 12	17 57	0 36	11 30	2 31	17 13	0 16	8 47	0 56	23 54	2 30	6 31	7 8	13 45	15 6	3 35
M 7	15 9	6 23	2 20	19 18	2 4	2 22	0 48	23 38	0 12	17 53	0 36	11 30	2 32	17 14	0 16	8 46	0 56	23 54	2 30	6 29	7 7	13 48	15 6	3 35
T 8	14 50	0 35	1 19	18 50	2 5	1 51	0 45	23 40	0 13	17 49	0 36	11 30	2 32	17 14	0 16	8 45	0 56	23 55	2 30	6 28	7 5	13 51	15 7	3 35
W 9	14 31	5s 9	0 15	18 21	2 5	1 20	0 42	23 42	0 14	17 46	0 36	11 30	2 32	17 14	0 16	8 45	0 56	23 55	2 31	6 27	7 4	13 54	15 7	3 34
T 10	14 11	10 38	0 s49	17 50	2 5	0 48	0 39	23 43	0 15	17 42	0 36	11 30	2 32	17 14	0 16	8 44	0 56	23 55	2 31	6 27	7 3	13 57	15 7	3 34
F 11	13 52	15 42	1 50	17 17	2 5	0 16	0 35	23 45	0 16	17 38	0 37	11 30	2 33	17 14	0 16	8 43	0 56	23 55	2 31	6 28	7 2	14 0	15 8	3 34
S 12	13 32	20 12	2 47	16 43	2 5	0n15	0 32	23 46	0 17	17 34	0 37	11 29	2 33	17 15	0 16	8 42	0 56	23 56	2 31	6 28	7 1	14 3	15 8	3 34
S 13	13 11	23 56	3 37	16 7	2 3	0 47	0 29	23 46	0 18	17 30	0 37	11 29	2 33	17 15	0 16	8 41	0 56	23 56	2 31	6 28	6 59	14 6	15 8	3 34
M14	12 51	26 40	4 18	15 30	2 2	1 18	0 26	23 47	0 18	17 26	0 37	11 29	2 33	17 15	0 16	8 40	0 56	23 56	2 31	6 27	6 58	14 10	15 9	3 34
T 15	12 30	28 12	4 48	14 52	2 0	1 50	0 22	23 47	0 19	17 22	0 37	11 29	2 33	17 16	0 16	8 40	0 56	23 56	2 31	6 26	6 57	14 13	15 9	3 34
W16	12 10	28 18	5 5	14 12	1 57	2 21	0 19	23 48	0 20	17 18	0 37	11 28	2 34	17 16	0 16	8 39	0 56	23 57	2 31	6 24	6 56	14 16	15 10	3 33
T 17	11 49	26 51	5 7	13 30	1 54	2 53	0 15	23 48	0 21	17 14	0 37	11 28	2 34	17 16	0 16	8 38	0 56	23 57	2 31	6 21	6 54	14 19	15 10	3 33
F 18	11 27	23 51	4 52	12 47	1 50	3 24	0 12	23 47	0 22	17 10	0 37	11 28	2 34	17 17	0 16	8 37	0 56	23 57	2 31	6 18	6 53	14 22	15 10	3 33
S 19	11 6	19 26	4 20	12 3	1 46	3 56	0 8	23 47	0 23	17 6	0 37	11 27	2 34	17 17	0 16	8 36	0 56	23 57	2 31	6 15	6 52	14 25	15 11	3 33
S 20	10 44	13 51	3 31	11 17	1 42	4 27	0 5	23 46	0 24	17 2	0 38	11 27	2 35	17 17	0 16	8 35	0 56	23 57	2 31	6 12	6 51	14 28	15 11	3 33
M21	10 23	7 26	2 29	10 31	1 36	4 58	0 1	23 45	0 25	16 58	0 38	11 26	2 35	17 18	0 16	8 35	0 56	23 58	2 31	6 10	6 50	14 31	15 12	3 33
T 22	10 1	0 33	1 16	9 42	1 30	5 29	0n 3	23 44	0 26	16 54	0 38	11 26	2 35	17 18	0 16	8 34	0 56	23 58	2 31	6 9	6 48	14 34	15 12	3 32
W23	9 39	6n22	0n 3	8 53	1 24	6 0	0 7	23 43	0 27	16 50	0 38	11 25	2 35	17 19	0 16	8 33	0 56	23 58	2 31	6 9	6 47	14 37	15 13	3 32
T 24	9 17	12 57	1 21	8 3	1 17	6 31	0 10	23 41	0 28	16 46	0 38	11 25	2 36	17 19	0 16	8 32	0 56	23 58	2 31	6 9	6 46	14 40	15 14	3 32
F 25	8 54	18 47	2 33	7 11	1 9	7 2	0 14	23 39	0 29	16 42	0 38	11 24	2 36	17 19	0 16	8 31	0 56	23 58	2 31	6 9	6 45	14 43	15 14	3 32
S 26	8 32	23 30	3 35	6 19	1 1	7 32	0 18	23 37	0 29	16 38	0 38	11 24	2 36	17 20	0 16	8 30	0 56	23 58	2 31	6 10	6 43	14 46	15 15	3 32
S 27	8 9	26 46	4 23	5 26	0 52	8 3	0 22	23 35	0 30	16 34	0 38	11 23	2 36	17 20	0 16	8 29	0 56	23 59	2 31	6 10	6 42	14 49	15 15	3 32
M28	7 s47	28n22	4n55	4 s 3 2	0 s42	8n33	0n26	23 s33	0s31	16s30	0 s38	11 s22	2n37	17n21	0s16	8 s 2 9	0 s 5 6	23n59	2n31	6n 9	6n41	14 s 5 2	15n16	$3 \mathrm{s} 32$

Julian Day Number = 2337986.5, Delta T = 18.85 sec Ecliptic obliquity = 23°28'55, Nutation = -0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}24'01$, Lahiri = $19^{\circ}31'01$ Greg. Calendar

MARCH 1689 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(并	В	N.	v	Ç	Ŗ	Day
T 1	10 37 42	11 米 8'51	10932	22) 7	22 Y 0	11 궁 43	16≈50	6°R52	19823	10 ∺ 37	23°R 6	15°R34	16 Y 56	5 M 29	23832	T 1
W 2	10 41 39	12° 8'53	23°55	23°59	23°10	12°26	17° 4	6 M .51	19°25	10°39	2395 5	15 Y 30	16°53	5°36	23°35	W 2
T 3	10 45 35	13° 8'53	7 Ω 5	25°51	24°20	13° 8	17°17	6°49	19°27	10°41	23° 4	15°25	16°50	5°42	23°37	T 3
F 4	10 49 32	14° 8'51	20° 2	27°40	25°29	13°50	17°31	6°47	19°29	10°43	23° 4	15°19	16°46	5°49	23°39	F 4
S 5	10 53 28	15° 8'47	2 m 46	29°27	26°39	14°33	17°45	6°45	19°31	10°46	23° 3	15°14	16°43	5°56	23°41	S 5
S 6	10 57 25	16° 8'40	15°16	1 Υ 12	27°48	15°16	17°58	6°43	19°32	10°48	23° 2	15°10	16°40	6° 2	23°44	S 6
M 7	11 121	17° 8'32	27°35	2°53	28°57	15°58	18°11	6°41	19°34	10°50	23° 1	15° 7	16°37	6° 9	23°46	M 7
T 8	11 5 18	18° 8'21	9 ≏ 42	4°31	0 8 6	16°41	18°25	6°39	19°36	10°53	23° 1	15°D 6	16°34	6°16	23°48	T 8
W 9	11 9 14	19° 8'09	21°40	6° 4	1°15	17°23	18°38	6°37	19°39	10°55	23° 0	15° 6	16°30	6°22	23°51	W 9
T 10	11 13 11	20° 7'55	3 M .31	7°33	2°24	18° 6	18°51	6°34	19°41	10°57	22°59	15° 7	16°27	6°29	23°53	T 10
F 11	11 17 8	21° 7'39	15°20	8°56	3°33	18°49	19° 5	6°32	19°43	10°59	22°59	15° 9	16°24	6°36	23°56	F 11
S 12	11 21 4	22° 7'22	27° 9	10°14	4°41	19°31	19°18	6°29	19°45	11° 2	22°58	15°10	16°21	6°42	23°59	S 12
S 13	11 25 1	23° 7'02	9 ∡ 3	11°25	5°49	20°14	19°31	6°27	19°47	11° 4	22°58	15°12	16°18	6°49	24° 2	S 13
M14	11 28 57	24° 6'41	21° 7	12°31	6°57	20°57	19°44	6°24	19°49	11° 6	22°57	15°R12	16°15	6°56	24° 4	M14
T 15	11 32 54	25° 6'19	3 云 27	13°29	8° 5	21°39	19°57	6°21	19°52	11° 8	22°57	15°12	16°11	7° 2	24° 7	T 15
W16	11 36 50	26° 5'54	16° 5	14°20	9°13	22°22	20°10	6°18	19°54	11°10	22°56	15°11	16° 8	7° 9	24°10	W16
T 17	11 40 47	27° 5'28	29° 6	15° 4	10°20	23° 5	20°23	6°16	19°56	11°13	22°56	15° 9	16° 5	7°16	24°13	T 17
F 18	11 44 43	28° 5'00	12≈33	15°40	11°28	23°47	20°36	6°12	19°59	11°15	22°55	15° 7	16° 2	7°22	24°16	F 18
S 19	11 48 40	29° 4'30	26°26	16° 8	12°35	24°30	20°49	6° 9	20° 1	11°17	22°55	15° 5	15°59	7°29	24°19	S 19
S 20	11 52 37	0 Υ 3'58	10) € 44	16°29	13°42	25°13	21° 1	6° 6	20° 4	11°19	22°54	15° 3	15°55	7°36	24°22	S 20
M21	11 56 33	1° 3'24	25°21	16°41	14°49	25°56	21°14	6° 3	20° 6	11°21	22°54	15° 1	15°52	7°42	24°25	M21
T 22	12 0 30	2° 2'48	10 Y 13	16°R46	15°55	26°38	21°26	6° 0	20° 9	11°24	22°54	15°D 1	15°49	7°49	24°29	T 22
W23	12 4 26	3° 2'10	25°10	16°44	17° 2	27°21	21°39	5°56	20°12	11°26	22°53	15° 1	15°46	7°56	24°32	W23
T 24	12 8 23	4° 1'29	108 5	16°34	18° 8	28° 4	21°51	5°53	20°14	11°28	22°53	15° 2	15°43	8° 2	24°35	T 24
F 25	12 12 19	5° 0'47	24°51	16°18	19°14	28°47	22° 4	5°49	20°17	11°30	22°53	15° 2	15°40	8° 9	24°39	F 25
S 26	12 16 16	6° 0'02	9 Ⅱ 21	15°55	20°19	29°30	22°16	5°46	20°20	11°32	22°52	15° 3	15°36	8°15	24°42	S 26
S 27	12 20 12	6°59'15	23°33	15°26	21°25	0≈12	22°28	5°42	20°22	11°34	22°52	15° 4	15°33	8°22	24°45	S 27
M28	12 24 9	7°58'26	79524	14°51	22°30	0°55	22°40	5°38	20°25	11°36	22°52	15°R 4	15°30	8°29	24°49	M28
T 29	12 28 6	8°57'34	20°54	14°13	23°35	1°38	22°52	5°35	20°28	11°39	22°52	15° 4	15°27	8°35	24°52	T 29
W30	12 32 2	9°56'40	4Ω 5	13°31	24°39	2°21	23° 4	5°31	20°31	11°41	22°52	15° 3	15°24	8°42	24°56	W30
T 31	12 35 59	10 Y 55'44	$16\Omega 59$	12 Y 46	25 8 44	3≈ 4	23≈16	5 M 27	20834	11) 43	22951	15 ° 3	15 Y 21	8 M 49	25 8 0	T 31

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T 1 W 2	7 s24 7 1	28n13 5n10 26 25 5 8		0 s 3 2 9 n 3 0 2 1 9 3 3	0n30 23 s30 0 34 23 27	0s32 0 33		0 s39 0 39	11 s22 11 21		17n21 17 22	0s16 0 16				2n31 2 31	6n 8 6 7	6n40 6 39	14 s 5 5 14 5 8	15n17 15 17	3 s31 3 31
T 3 F 4 S 5	6 38 6 15 5 52		0 54 0	0 10 10 2 0n 2 10 32 0 14 11 1	0 38 23 24 0 42 23 21 0 46 23 17	0 35	16 18 16 14 16 10	0 39	11 20 11 19 11 19	2 37	17 22 17 23 17 23		8 25 (0 56	23 59 2	2 31 2 31 2 31	6 5 6 3 6 1	6 37 6 36 6 35	15 4	15 18 15 19 15 19	3 31 3 31 3 31
S 6 M 7	5 29 5 5	8 13 2 36 2 25 1 35	0n53 0	0 26 11 30 0 39 11 58	0 50 23 13 0 54 23 10	0 37 0 38	16 6 16 2	0 39 0 39	11 18 11 17	2 38 2 38	17 24 17 24	0 16 0 16	8 23 (8 23 (0 56 0 56	24 0 2 24 0 2	2 31	5 59 5 58	6 34 6 32	15 10 15 13	15 20 15 21	3 31 3 31
T 8 W 9 T 10	4 42 4 18 3 55		3 25 1	0 52 12 27 1 5 12 55 1 18 13 22	0 59 23 5 1 3 23 1 1 7 22 56	0 40	15 58 15 54 15 50	0 40 0 40 0 40	-	2 38	17 25 17 26 17 26	0 16	8 21 (0 56	24 0 2	-	5 57 5 57 5 58	6 30 6 29	15 16 15 19 15 22	15 22 15 23	3 31 3 30 3 30
F 11 S 12	3 31 3 8		5 40 1	1 32 13 50 1 44 14 17	1 11 22 52 1 15 22 46		15 42	0 40 0 40	11 12	2 39	17 27	0 16 0 16	8 18 (0 56	24 0 2	2 31	5 59 5 59	6 26	15 25 15 28	15 24	3 30 3 30
S 13 M14 T 15 W16 T 17	1 57 1 33	27 59 4 48 28 35 5 9 27 44 5 16	6 56 2 7 30 2 8 0 2	2 21 15 37 2 32 16 2	1 19 22 41 1 23 22 36 1 28 22 30 1 32 22 24	0 44 0 45 0 47 0 48 0 49	15 34 15 30 15 26	0 40 0 40 0 40 0 41 0 41	11 10 11 9 11 8	2 39 2 40 2 40	17 29 17 29 17 30	0 15 0 15 0 15	8 17 (8 16 (8 15 (6 15 (15 (15 (15 (15 (15 (15 (15 (15 (15	0 56 0 56 0 56	24 1 2 24 1 2 24 1 2	2 31 2 31 2 31 2 31	6 0 6 0 6 0 5 59	6 24 6 23 6 21	15 34 15 37 15 40	15 26 15 27 15 28	3 30 3 30 3 30 3 30 3 30
F 18 S 19	1 10 0 46 0 22		8 49 2	2 43 16 28 2 52 16 53 3 0 17 18	1 36 22 18 1 40 22 12 1 44 22 5	0 50	15 22 15 18 15 14	0 41 0 41 0 41	11 7 11 6 11 4			0 15 0 15 0 15	8 13 (24 1 2	2 31 2 31 2 31	5 59 5 58 5 57	6 19	15 43 15 46 15 49		3 29 3 29
S 20 M21 T 22 W23 T 24 F 25	0n 2 0 25 0 49 1 13 1 36 2 0	3 29 1 47 3n39 0 27 10 37 0n56 17 0 2 15 22 18 3 23	9 33 3 9 40 3 9 42 3 9 40 3 9 33 3	3 8 17 42 3 14 18 6 3 19 18 30 3 22 18 53 3 24 19 15 3 24 19 38	1 48 21 59 1 52 21 52 1 57 21 45 2 1 21 38 2 5 21 30 2 9 21 23	0 53 0 54 0 55 0 56 0 57	15 2 14 58 14 54 14 51	0 42	11 0 10 58 10 57	2 41 2 41 2 41 2 41 2 41	17 35 17 35 17 36	0 15 0 15 0 15 0 15 0 15	8 11 (0 8 10 (0 8 9 (0 8 8 (0 8 8 (0	0 56 0 56 0 56 0 56 0 56	24 1 2 24 1 2 24 1 2 24 1 2 24 2 2	2 31 2 31 2 31 2 31 2 31 2 31	5 56 5 56 5 55 5 56 5 56 5 56	6 15 6 14 6 13 6 12 6 10	16 4 16 7	15 32 15 33 15 33 15 34 15 35	3 29 3 29 3 29 3 29 3 29 3 29
S 26 S 27 M28 T 29	2 23 2 47 3 10 3 33	28 14 4 55 28 31 5 15	9 9 3 8 51 3	3 23 19 59 3 20 20 21 3 15 20 41 3 8 21 2	2 13 21 15 2 17 21 7 2 20 20 58 2 24 20 50		14 47 14 43 14 39 14 35	0 42 0 43	10 56 10 54 10 53 10 52		17 38	0 15	8 6 0 8 5 0	0 56 0 56	24 2 2 24 2 2	2 31 2 31 2 31 2 31	5 56 5 57 5 57 5 57	6 8	16 13 16 16		3 29 3 29 3 29 3 28
W30 T 31	3 57 4n20	24 7 5 0	8 6 3		2 28 20 42 2n32 20 s33	1 3	14 32	0 43	10 50 10 s49	2 42	17 40 17n41		8 4 (24 2 2	-	5 56 5n56	6 4	16 22 16 s24	15 40	3 28 3 s28

Julian Day Number = 2338014.5, Delta T = 18.82 sec Ecliptic obliquity = $23^{\circ}28'56$, Nutation = - $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}24'05$, Lahiri = $19^{\circ}31'05$ Greg. Calendar

APRIL 1689 GC 00:00 UT

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Day	Sid.t	0	D	ğ	·	ð	4	ħ)∤(并	В	S.	v	Ç	Ŷ,	Day
F 1	12 39 55	11 ° 54'45	29 Ω 37	11°R59	26 8 48	3≈47	23≈28	5°R23	20 8 36	11) 45	22°R51	15°R 2	15 Y 17	8 M .55	25 8 3	F 1
S 2	12 43 52	12°53'44	12 m/ 2	11 Y 12	27°52	4°29	23°40	5 M .19	20°39	11°47	22951	15 ° 2	15°14	9° 2	25° 7	S 2
S 3	12 47 48	13°52'40	24°16	10°24	28°55	5°12	23°51	5°15	20°42	11°49	22°51	15° 2	15°11	9° 9	25°11	S 3
M 4	12 51 45	14°51'35	6 ₽ 20	9°38	29°58	5°55	24° 3	5°11	20°45	11°51	22°51	15° 2	15° 8	9°15	25°15	M 4
T 5	12 55 41	15°50'27	18°18	8°53	1 I 1	6°38	24°14	5° 7	20°48	11°53	22°D51	15° 2	15° 5	9°22	25°18	T 5
W 6	12 59 38	16°49'18	0 M .10	8°11	2° 4	7°21	24°26	5° 3	20°51	11°55	22°51	15° 2	15° 1	9°29	25°22	W 6
T 7	13 3 35	17°48'06	11°59	7°32	3° 6	8° 4	24°37	4°58	20°54	11°57	22°51	15° 2	14°58	9°35	25°26	T 7
F 8	13 731	18°46'53	23°48	6°57	4° 8	8°46	24°48	4°54	20°57	11°58	22°51	15° 1	14°55	9°42	25°30	F 8
S 9	13 11 28	19°45'38	5 ₹ 39	6°26	5°10	9°29	24°59	4°50	21° 0	12° 0	22°51	15° 1	14°52	9°49	25°34	S 9
S 10	13 15 24	20°44'21	17°35	6° 0	6°11	10°12	25°10	4°45	21° 4	12° 2	22°51	15° 0	14°49	9°55	25°38	S 10
M11	13 19 21	21°43'02	29°40	5°39	7°12	10°55	25°21	4°41	21° 7	12° 4	22°52	14°59	14°46	10° 2	25°42	M11
T 12	13 23 17	22°41'42	11 る 59	5°23	8°12	11°38	25°32	4°37	21°10	12° 6	22°52	14°59	14°42	10° 9	25°46	T 12
W13	13 27 14	23°40'20	24°34	5°11	9°12	12°21	25°43	4°32	21°13	12° 8	22°52	14°D59	14°39	10°15	25°50	W13
T 14	13 31 10	24°38'56	7≈30	5° 5	10°12	13° 4	25°53	4°28	21°16	12°10	22°52	14°59	14°36	10°22	25°54	T 14
F 15	13 35 7	25°37'31	20°50	5°D 5	11°11	13°47	26° 4	4°23	21°19	12°11	22°52	15° 0	14°33	10°29	25°59	F 15
S 16	13 39 4	26°36'03	4 ∺ 36	5° 9	12°10	14°29	26°14	4°19	21°23	12°13	22°53	15° 0	14°30	10°35	26° 3	S 16
S 17	13 43 0	27°34'34	18°49	5°18	13° 9	15°12	26°24	4°14	21°26	12°15	22°53	15° 1	14°27	10°42	26° 7	S 17
M18	13 46 57	28°33'04	3 Υ27	5°32	14° 7	15°55	26°34	4°10	21°29	12°17	22°53	15° 2	14°23	10°49	26°11	M18
T 19	13 50 53	29°31'31	18°23	5°51	15° 4	16°38	26°45	4° 5	21°32	12°18	22°54	15°R 2	14°20	10°55	26°15	T 19
W20	13 54 50	0829'57	3 8 32	6°14	16° 1	17°21	26°54	4° 1	21°36	12°20	22°54	15° 2	14°17	11° 2	26°20	W20
T 21	13 58 46	1°28'21	18°44	6°42	16°58	18° 3	27° 4	3°56	21°39	12°22	22°54	15° 0	14°14	11° 9	26°24	T 21
F 22	14 2 43	2°26'43	3 Ⅱ 49	7°14	17°54	18°46	27°14	3°52	21°42	12°23	22°55	14°58	14°11	11°15	26°28	F 22
S 23	14 6 39	3°25'04	18°38	7°49	18°49	19°29	27°24	3°47	21°46	12°25	22°55	14°56	14° 7	11°22	26°33	S 23
S 24	14 10 36	4°23'22	395 5	8°29	19°44	20°12	27°33	3°43	21°49	12°26	22°56	14°54	14° 4	11°29	26°37	S 24
M25	14 14 33	5°21'38	17° 7	9°13	20°39	20°55	27°42	3°38	21°53	12°28	22°56	14°52	14° 1	11°35	26°42	M25
T 26	14 18 29	6°19'52	$0\Omega 42$	10° 0	21°33	21°37	27°52	3°34	21°56	12°30	22°57	14°D51	13°58	11°42	26°46	T 26
W27	14 22 26	7°18'04	13°51	10°50	22°26	22°20	28° 1	3°29	21°59	12°31	22°57	14°51	13°55	11°49	26°51	W27
T 28	14 26 22	8°16'13	26°38	11°44	23°18	23° 3	28°10	3°24	22° 3	12°33	22°58	14°52	13°52	11°55	26°55	T 28
F 29	14 30 19	9°14'21	9 m) 7	12°40	24°10	23°45	28°19	3°20	22° 6	12°34	22°59	14°54	13°48	12° 2	27° 0	F 29
S 30	14 34 15	10812'27	21 m/20	13 Y 40	25 I 1	24≈28	28≈27	3 M 15	22810	12) 35	22959	14 Y 55	13 Y 45	12M 9	27 8 4	S 30

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F 1	4n43	15n 9	3n46	7n11	2n39	22n 0	2n36	20 s24	1 s 5	14 s24	0 s43	10 s48	2n42	17n41	0s15	8s 2	0 s56	24n 2	2n31	5n56	6n 2	16 s27	15n42	3 s28
S 2	5 6	9 44	2 53	6 41	2 27	22 18	2 39	20 15	1 6	14 20	0 43	10 46	2 42	17 42	0 15	8 1	0 56	24 2	2 31	5 56	6 1	16 30	15 43	3 28
S 3	5 29	4 1	1 53	6 10	2 13	22 36	2 43	20 5	1 7	14 17	0 44	10 45	2 42	17 43	0 15	8 1	0 56	24 2	2 31	5 56	5 59	16 33	15 44	3 28
M 4	5 52	1 s47	0 48	5 38	1 59	_		19 56		14 13	0 44		2 42		0 15		0 56	24 2	2 31	5 56		16 36		3 28
T 5	6 15	7 28	0s18	5 7	1 43	-		19 46		14 9	0 44	-	2 42		0 15		0 56		2 31	5 56		16 39		3 28
W 6	6 37	12 51	1 23	4 36	1 28	23 27		19 37	1 11		0 44		2 43		0 15	7 59	0 56	24 2	2 31	5 56		16 42		3 28
T 7	7 0	-,	2 24	4 5	1 11			19 27		14 2	0 44			17 46	0 15		0 56	24 2	2 31	5 56		16 45		3 28
F 8	7 22	21 58	3 19	3 36	0 55			19 16		13 59	0 44		2 43	17 47	0 15	7 57	0 56	24 2	2 31	5 56	5 53	16 48	15 48	3 28
S 9	7 45	25 19	4 6	3 9	0 38	24 12	3 3	19 6	1 14	13 55	0 45	10 36	2 43	17 48	0 15	7 56	0 56	24 2	2 31	5 55	5 52	16 51	15 49	3 28
S 10	8 7	27 35	4 42	2 43	0 22	24 26	3 6	18 56	1 16	13 52	0 45	10 34	2 43	17 49	0 15	7 56	0 57	24 2	2 31	5 55	5 51	16 53	15 50	3 28
M11	8 29	28 35	5 6	2 20	0 6	24 40	3 10	18 45	1 17	13 48	0 45	10 33	2 43	17 50	0 15	7 55	0 57	24 2	2 31	5 55	5 50	16 56	15 51	3 28
T 12	8 51	28 12	5 17	1 59	0s10	24 53	3 12	18 34	1 18	13 45	0 45	10 31	2 43	17 50	0 15	7 54	0 57	24 2	2 31	5 55	5 48	16 59	15 52	3 28
W13	9 12	26 23	5 13	1 41	0 25	25 5	3 15	18 23	1 19	13 41	0 45	10 30	2 43	17 51	0 15	7 54	0 57	24 2	2 31	5 55	5 47	17 2	15 53	3 28
T 14	9 34	23 9	4 53	1 25	0 40	25 17	3 18	18 12	1 20	13 38	0 46	10 28	2 43	17 52	0 15	7 53	0 57	24 2	2 31	5 55	5 46	17 5	15 54	3 28
F 15	9 55	18 38	4 17	1 11	0 54	25 28	3 21	18 1	1 21	13 34	0 46	10 27	2 43	17 53	0 15	7 52	0 57	24 2	2 31	5 55	5 45	17 8	15 55	3 28
S 16	10 17	13 2	3 26	1 1	1 8	25 39	3 23	17 50	1 23	13 31	0 46	10 25	2 43	17 54	0 15	7 52	0 57	24 2	2 31	5 55	5 43	17 11	15 56	3 28
S 17	10 38	6 35	2 20	0 53	1 21	25 49	3 26	17 38	1 24	13 28	0 46	10 24	2 43	17 55	0 15	7 51	0 57	24 2	2 31	5 56	5 42	17 14	15 57	3 28
M18	10 59	0n24	1 4	0 47	1 33	25 59	3 28	17 27	1 25	13 24	0 46	10 22	2 43	17 56	0 15	7 50	0 57	24 1	2 31	5 56	5 41	17 16	15 58	3 28
T 19	11 19	7 30	0n19	0 44	1 44	26 8	3 31	17 15	1 26	13 21	0 47	10 21	2 43	17 56	0 15	7 50	0 57	24 1	2 31	5 56	5 40	17 19	15 59	3 28
W20	11 40	14 18	1 41	0 44	1 55	26 16	3 33	17 3	1 27	13 18	0 47	10 19	2 43	17 57	0 15	7 49	0 57	24 1	2 31	5 56	5 38	17 22	16 0	3 28
T 21	12 0	20 15	2 56	0 46	2 4	26 24	3 35	16 51	1 29	13 15	0 47	10 18	2 43	17 58	0 15	7 49	0 57	24 1	2 31	5 55	5 37	17 25	16 1	3 28
F 22	12 21	24 51	3 58	0 50	2 13	26 32	3 37	16 39	1 30	13 12	0 47	10 16	2 43	17 59	0 15	7 48	0 57	24 1	2 31	5 55	5 36	17 28	16 2	3 27
S 23	12 41	27 42	4 43	0 57	2 22	26 38	3 39	16 27	1 31	13 8	0 47	10 15	2 43	18 0	0 15	7 47	0 57	24 1	2 31	5 54	5 35	17 31	16 3	3 27
S 24	13 0	28 36	5 9	1 5	2 29	26 45	3 40	16 14	1 32	13 5	0 48	10 13	2 43	18 1	0 15	7 47	0 57	24 1	2 31	5 53	5 34	17 33	16 4	3 27
M25	13 20	27 36	5 15	1 16	2 36	26 50	3 42	16 2	1 33	13 2	0 48	10 12	2 43	18 2	0 15	7 46	0 57	24 1	2 31	5 52	5 32	17 36	16 5	3 28
T 26	13 39	24 59	5 4	1 29	2 42	26 55	3 43	15 49	1 35	12 59	0 48	10 10	2 43	18 3	0 15	7 46	0 57	24 1	2 31	5 52	5 31	17 39	16 6	3 28
W27	13 58	21 6	4 36	1 44	2 47	27 0	3 44	15 36	1 36	12 56	0 48	10 9	2 43	18 4	0 15	7 45	0 57	24 1	2 31	5 52	5 30	17 42	16 7	3 28
T 28	14 17	16 21	3 56	2 1	2 51	27 4	3 45	15 23	1 37	12 54	0 49	10 7	2 43	18 4	0 15	7 45	0 57	24 1	2 31	5 52	5 29	17 45	16 8	3 28
F 29	14 36	11 1	3 5	2 20	2 55	27 7	3 46	15 10	1 38	12 51	0 49	10 6	2 43	18 5	0 15	7 44	0 57	24 1	2 31	5 53	5 27	17 48	16 9	3 28
S 30	14n54	5n22	2n 6	2n40	2 s58	27n10	3n47	14 s57	1 s40	12 s48	0 s49	10s 4	2n43	18n 6	0s15	7 s44	0 s57	24n 0	2n31	5n53	5n26	17s50	16n10	$3\mathrm{s}28$

Julian Day Number = 2338045.5, Delta T = 18.77 sec Ecliptic obliquity = 23°28'56, Nutation = -0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}24'09$, Lahiri = $19^{\circ}31'09$ Greg. Calendar

MAY 1689 GC 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)∤(并	В	₽.	v	Ç	Ŗ	Day
S 1	14 38 12	11810'31	3 ₾ 23	14 Y 43	25 II 52	25≈10	28≈36	3°R11	22813	12) 37	2399 0	14 Y 57	13 Y 42	12 M .15	27 8 9	S 1
M 2	14 42 8	12° 8'33	15°18	15°48	26°42	25°53	28°44	3M 6	22°17	12°38	23° 0	14°R57	13°39	12°22	27°13	M 2
T 3	14 46 5	13° 6'33	27° 9	16°57	27°31	26°36	28°53	3° 2	22°20	12°40	23° 1	14°57	13°36	12°29	27°18	T 3
W 4	14 50 1	14° 4'32	8 M .57	18° 8	28°19	27°18	29° 1	2°58	22°23	12°41	23° 2	14°54	13°32	12°35	27°22	W 4
T 5	14 53 58	15° 2'29	20°46	19°21	29° 6	28° 1	29° 9	2°53	22°27	12°42	23° 3	14°51	13°29	12°42	27°27	T 5
F 6	14 57 55	16° 0'24	2 ₹ 38	20°37	29°53	28°43	29°17	2°49	22°30	12°43	23° 3	14°46	13°26	12°49	27°31	F 6
S 7	15 1 51	16°58'18	14°34	21°55	0939	29°26	29°25	2°44	22°34	12°45	23° 4	14°41	13°23	12°55	27°36	S 7
S 8	15 5 48	17°56'11	26°36	23°16	1°23	0 ∺ 8	29°32	2°40	22°37	12°46	23° 5	14°35	13°20	13° 2	27°41	S 8
M 9	15 9 44	18°54'02	8 云 47	24°39	2° 7	0°50	29°40	2°36	22°41	12°47	23° 6	14°29	13°17	13° 9	27°45	M 9
T 10	15 13 41	19°51'52	21° 9	26° 5	2°50	1°33	29°47	2°32	22°44	12°48	23° 7	14°25	13°13	13°15	27°50	T 10
W11	15 17 37	20°49'41	3≈45	27°32	3°32	2°15	29°54	2°27	22°48	12°49	23° 7	14°22	13°10	13°22	27°55	W11
T 12	15 21 34	21°47'28	16°39	29° 2	4°13	2°57	0 米 2	2°23	22°51	12°50	23° 8	14°D21	13° 7	13°29	27°59	T 12
F 13	15 25 31	22°45'14	29°53	0 8 34	4°52	3°40	0° 8	2°19	22°55	12°52	23° 9	14°21	13° 4	13°35	28° 4	F 13
S 14	15 29 27	23°43'00	13 米 30	2° 9	5°31	4°22	0°15	2°15	22°58	12°53	23°10	14°22	13° 1	13°42	28° 9	S 14
S 15	15 33 24	24°40'44	27°32	3°45	6° 8	5° 4	0°22	2°11	23° 2	12°54	23°11	14°23	12°58	13°49	28°13	S 15
M16	15 37 20	25°38'26	11 Y 58	5°24	6°44	5°46	0°28	2° 7	23° 5	12°55	23°12	14°R24	12°54	13°55	28°18	M16
T 17	15 41 17	26°36'08	26°45	7° 5	7°19	6°28	0°35	2° 3	23° 9	12°55	23°13	14°23	12°51	14° 2	28°23	T 17
W18	15 45 13	27°33'49	11850	8°49	7°53	7°10	0°41	1°59	23°12	12°56	23°14	14°21	12°48	14° 9	28°27	W18
T 19	15 49 10	28°31'29	27° 2	10°34	8°25	7°52	0°47	1°55	23°16	12°57	23°15	14°17	12°45	14°15	28°32	T 19
F 20	15 53 6	29°29'07	12 Ⅱ 12	12°22	8°56	8°34	0°53	1°52	23°19	12°58	23°16	14°11	12°42	14°22	28°37	F 20
S 21	15 57 3	0∏26'45	27°10	14°12	9°25	9°16	0°58	1°48	23°23	12°59	23°17	14° 4	12°38	14°29	28°42	S 21
S 22	16 1 0	1°24'20	119548	16° 4	9°53	9°58	1° 4	1°44	23°26	13° 0	23°18	13°57	12°35	14°35	28°46	S 22
M23	16 4 56	2°21'55	26° 0	17°58	10°19	10°40	1° 9	1°41	23°30	13° 1	23°20	13°51	12°32	14°42	28°51	M23
T 24	16 8 53	3°19'28	9 Ω 42	19°54	10°44	11°22	1°14	1°37	23°33	13° 1	23°21	13°47	12°29	14°49	28°56	T 24
W25	16 12 49	4°16'59	22°56	21°52	11° 7	12° 3	1°19	1°34	23°37	13° 2	23°22	13°44	12°26	14°55	29° 0	W25
T 26	16 16 46	5°14'30	5 m /44	23°53	11°28	12°45	1°24	1°30	23°40	13° 3	23°23	13°D44	12°23	15° 2	29° 5	T 26
F 27	16 20 42	6°11'58	18°10	25°55	11°47	13°26	1°29	1°27	23°44	13° 3	23°24	13°44	12°19	15° 9	29°10	F 27
S 28	16 24 39	7° 9'26	0 ჲ 20	27°59	12° 4	14° 8	1°33	1°24	23°47	13° 4	23°25	13°45	12°16	15°15	29°14	S 28
S 29	16 28 35	8° 6'52	12°18	OII 5	12°20	14°49	1°38	1°20	23°50	13° 4	23°27	13°R46	12°13	15°22	29°19	S 29
M30	16 32 32	9° 4'17	24° 9	2°12	12°33	15°30	1°42	1°17	23°54	13° 5	23°28	13°45	12°10	15°29	29°24	M30
T 31	16 36 29	10 I 1'41	5 M 57	4 Ⅱ 21	129544	16 米 12	1) 46	1 M .14	23 8 57	13 米 5	23529	13 Y 43	12 ℃ 7	15 M 35	29 8 28	T 31

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl lat	
S 1 M 2	15n13	0 s23 6 4	1n 3	3n 2			-	14 s44		12 s45	0 s49			18n 7	0s15	7 s43	0 s57	-	2n31	5n54	-		16n11 3 s	- 1
$\begin{array}{c c} M & 2 \\ T & 3 \end{array}$	15 30 15 48		0s 2 1 6	3 26 3 51	3 2		3 48	14 31		12 42 12 40	0 49 0 50	-	2 43 2 43		0 15 0 15		0 57 0 57	-	2 31 2 31	5 54 5 54	-	17 56 17 59	-	- 1
W 4	16 5		2 8	4 17			-	-		12 40	0 50	9 58		18 10			0 57	-	2 31	5 53	5 21		16 14 3	-
T 5		20 56	3 4			3 27 17		13 50		12 34	0 50	9 57		18 11	0 15		0 57	-	2 32	5 52	5 20		16 15 3	-
F 6	16 39	24 30	3 52	5 15	3 2	2 27 17	3 48	13 37	1 47	12 32	0 50	9 56	2 42	18 12	0 15	7 41	0 57	24 0	2 32	5 50	5 19		16 16 3	28
S 7	16 56	27 3	4 30	5 45	3	27 16	3 47	13 23	1 48	12 29	0 51	9 54	2 42	18 12	0 15	7 40	0 57	24 0	2 32	5 48	5 18	18 10	16 17 3	28
S 8	17 12	28 23	4 56	6 17	2 59	27 15	3 47	13 9	1 50	12 27	0 51	9 53	2 42	18 13	0 15	7 40	0 57	24 0	2 32	5 45	5 16	18 13	16 18 3	28
M 9	17 28	28 21	5 10	6 50	2 56	5 27 14	3 46	12 55	1 51	12 24	0 51	9 51	2 42	18 14	0 15	7 39	0 57	23 59	2 32	5 43	5 15	18 15	16 19 3	28
T 10	17 44	26 54	5 9	7 24	2 53	3 27 12	3 45	12 41	1 52	12 22	0 51	9 50	2 42	18 15	0 15	7 39	0 58	23 59	2 32	5 42	5 14	18 18	16 20 3	28
W11	18 0	-	4 54	7 59	2 49	27 9		12 27		12 20	0 52	9 49		18 16	0 15			23 59	2 32	5 40	-	18 21	-	- 1
T 12	18 15	-	4 23	8 35	2 44			_		12 17	0 52	9 47			0 15			23 59	2 32	5 40		-	16 22 3	
F 13		14 56	3 38	-	2 39		-	11 59		12 15	0 52	9 46		18 18	0 15			23 59	2 32	5 40		18 26		-
S 14	18 44	8 58	2 40	9 50	2 34	1 26 59	3 38	11 44	1 57	12 13	0 52	9 45	2 42	18 19	0 15	7 38	0 58	23 59	2 32	5 40	5 9	18 29	16 24 3	28
S 15	18 58	2 22	1 30	10 29	2 28	3 26 55	3 35	11 30	1 58	12 11	0 53	9 44	2 41	18 20	0 15	7 37	0 58	23 59	2 32	5 41	5 8	18 32	16 25 3	28
M16	19 12	4n32	0 13	11 8	2 2	26 51	3 33	11 16	1 59	12 9	0 53	9 42	2 41	18 21	0 15	7 37	0 58	23 58	2 32	5 41	5 6	18 35	16 26 3	28
T 17	19 26		-	11 48	2 14	1 26 46			2 1	12 7	0 53	9 41	2 41	18 21	0 15	7 37		23 58	2 32	5 41			16 27 3	28
W18		17 41		12 28	2 6			10 47	2 2		0 53	9 40	2 41	18 22	0 15			23 58	2 32	5 40			16 28 3	- 1
T 19		22 56						10 32	2 3		0 54	9 39	2 41		0 15			23 58	2 32	5 38		18 43		- 1
F 20		26 37		13 50				10 17		12 1	0 54	9 38	2 41	-	0 15		0 58		2 32	5 36		18 46		- 1
S 21	20 17	28 22	4 55	14 31	1 41	26 23	3 15	10 3	2 6	11 59	0 54	9 36	2 41	18 25	0 15	7 35	0 58	23 58	2 32	5 33	5 0	18 48	16 30 3	29
S 22	20 29	28 4	5 8	15 12	1 32	2 26 17	3 11	9 48	2 7	11 58	0 54	9 35	2 40	18 26	0 15	7 35	0 58	23 57	2 32	5 31	4 59	18 51	16 31 3	29
M23	20 40	25 55	5 1	15 54	1 22	2 26 10	3 6	9 33	2 8	11 56	0 55	9 34	2 40	18 27	0 15	7 35	0 58	23 57	2 32	5 28		18 54		29
T 24	20 51	22 18	4 37	16 35	1 12	2 26 3	3 1	9 19	2 9	11 54	0 55	9 33	2 40	18 28	0 15	7 35	0 58	23 57	2 32	5 27		18 56		29
W25				17 16			2 55	9 4		11 53	0 55	9 32		18 28	0 15			23 57	2 32	5 26		18 59		- 1
T 26	21 13			17 56			2 49	8 49		11 51	0 55	9 31		18 29	0 15			23 57	2 32	5 25	4 54		16 35 3	- 1
F 27	21 23			18 36		25 40	2 43	8 34		11 50	0 56	9 30	-	18 30				23 56	2 32	5 26	4 53		16 36 3	- 1
S 28	21 33	0 58	1 12	19 15	0 31	25 32	2 37	8 19	2 14	11 49	0 56	9 29	2 39	18 31	0 15	7 34	0 58	23 56	2 32	5 26	4 51	19 7	16 37 3	30
S 29	21 42			19 53		25 24	2 30	8 4		11 47	0 56	9 28						23 56	2 32	5 26		19 10		
M30				20 30			2 23	7 49		11 46	0 57	9 27						23 56	2 32	5 26		19 13		
T 31	22n 0	15 s21	1 s56	21n 5	0n 2	2 25n 6	2n15	7 s34	2s18	11 s45	0 s57	9 s 2 7	2n39	18n34	0s15	7 s33	0 s58	23n56	2n32	5n25	4n48	19s15	16n39 3 s	30

Julian Day Number = 2338075.5, Delta T = 18.74 sec Ecliptic obliquity = $23^{\circ}28'56$, Nutation = - $0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}24'13$, Lahiri = $19^{\circ}31'14$ Greg. Calendar

JUNE 1689 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(¥	Р	ß	Ω	Ç	Ŷ,	Day
W 1	16 40 25	10 Ⅱ 59'04	17 M .45	6Д31	12953	16 ∺ 53	1) 49	1°R11	248 1	13 米 6	23930	13°R38	12 Υ 4	15 M .42	29 8 33	W 1
T 2	16 44 22	11°56'26	29°37	8°41	13° 0	17°34	1°53	1 M 8	24° 4	13° 6	23°32	13 Y 31	12° 0	15°49	29°38	T 2
F 3	16 48 18	12°53'47	11 ~ 34	10°53	13° 5	18°15	1°57	1° 6	24° 7	13° 7	23°33	13°21	11°57	15°55	29°42	F 3
S 4	16 52 15	13°51'07	23°39	13° 5	13° 7	18°56	2° 0	1° 3	24°11	13° 7	23°34	13°11	11°54	16° 2	29°47	S 4
S 5	16 56 11	14°48'27	5 ਰ 51	15°17	13°R 8	19°37	2° 3	1° 0	24°14	13° 7	23°35	12°59	11°51	16° 9	29°51	S 5
M 6	17 0 8	15°45'46	18°14	17°29	13° 5	20°17	2° 6	0°58	24°17	13° 8	23°37	12°49	11°48	16°15	29°56	M 6
T 7	17 4 4	16°43'04	0≈47	19°40	13° 1	20°58	2°8	0°55	24°21	13° 8	23°38	12°40	11°44	16°22	0 I 1	T 7
W 8	17 8 1	17°40'22	13°32	21°51	12°54	21°39	2°11	0°53	24°24	13° 8	23°40	12°33	11°41	16°29	0° 5	W 8
T 9	17 11 58	18°37'39	26°30	24° 1	12°44	22°19	2°13	0°50	24°27	13° 9	23°41	12°28	11°38	16°35	0°10	T 9
F 10	17 15 54	19°34'56	9) 45	26°10	12°32	23° 0	2°15	0°48	24°30	13° 9	23°42	12°26	11°35	16°42	0°14	F 10
S 11	17 19 51	20°32'12	23°17	28°17	12°18	23°40	2°17	0°46	24°34	13° 9	23°44	12°D26	11°32	16°49	0°19	S 11
S 12	17 23 47	21°29'29	7 Υ 9	0923	12° 2	24°20	2°19	0°44	24°37	13° 9	23°45	12°R26	11°29	16°55	0°23	S 12
M13	17 27 44	22°26'45	21°21	2°28	11°43	25° 0	2°21	0°42	24°40	13° 9	23°47	12°26	11°25	17° 2	0°28	M13
T 14	17 31 40	23°24'00	5 8 53	4°30	11°22	25°40	2°22	0°40	24°43	13° 9	23°48	12°24	11°22	17° 9	0°32	T 14
W15	17 35 37	24°21'16	20°41	6°31	10°58	26°20	2°23	0°38	24°46	13°R 9	23°50	12°20	11°19	17°15	0°37	W15
T 16	17 39 33	25°18'31	5 Ⅱ 39	8°30	10°33	27° 0	2°24	0°37	24°50	13° 9	23°51	12°13	11°16	17°22	0°41	T 16
F 17	17 43 30	26°15'47	20°38	10°26	10° 6	27°39	2°25	0°35	24°53	13° 9	23°52	12° 4	11°13	17°29	0°45	F 17
S 18	17 47 27	27°13'01	5931	12°21	9°37	28°19	2°26	0°33	24°56	13° 9	23°54	11°54	11°10	17°35	0°50	S 18
S 19	17 51 23	28°10'16	20° 6	14°13	9° 6	28°58	2°26	0°32	24°59	13° 9	23°55	11°43	11° 6	17°42	0°54	S 19
M20	17 55 20	29° 7'30	4 Ω 19	16° 3	8°33	29°38	2°26	0°31	25° 2	13° 9	23°57	11°34	11° 3	17°49	0°58	M20
T 21	17 59 16	09 4'43	18° 4	17°51	7°59	o Υ 17	2°R26	0°29	25° 5	13° 9	23°59	11°26	11° 0	17°55	1° 3	T 21
W22	18 3 13	1° 1'56	1 Mp 21	19°37	7°25	0°56	2°26	0°28	25° 8	13° 8	24° 0	11°21	10°57	18° 2	1° 7	W22
T 23	18 7 9	1°59'08	14°12	21°21	6°49	1°34	2°26	0°27	25°11	13° 8	24° 2	11°18	10°54	18° 9	1°11	T 23
F 24	18 11 6	2°56'20	26°40	23° 2	6°12	2°13	2°25	0°26	25°14	13° 8	24° 3	11°17	10°50	18°15	1°15	F 24
S 25	18 15 3	3°53'32	8 ≏ 51	24°41	5°35	2°52	2°25	0°25	25°17	13° 8	24° 5	11°17	10°47	18°22	1°20	S 25
S 26	18 18 59	4°50'43	20°48	26°18	4°57	3°30	2°24	0°25	25°20	13° 7	24° 6	11°16	10°44	18°29	1°24	S 26
M27	18 22 56	5°47'53	2 M 39	27°53	4°20	4° 8	2°23	0°24	25°23	13° 7	24° 8	11°15	10°41	18°35	1°28	M27
T 28	18 26 52	6°45'04	14°27	29°25	3°42	4°46	2°21	0°23	25°25	13° 6	24° 9	11°12	10°38	18°42	1°32	T 28
W29	18 30 49	7°42'14	26°18	$0\Omega 56$	3° 5	5°24	2°20	0°23	25°28	13° 6	24°11	11° 6	10°35	18°49	1°36	W29
T 30	18 34 45	8939'24	8 ∡ 14	2Ω 24	29529	6 Υ 2	2) 18	0ML23	25 8 31	13 米 6	249513	10 Y 57	10 Y 31	18 M .55	1 Ⅱ 40	T 30

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W 1 T 2	-	23 41 3	52 21n38 40 22 10	0 23 24 48	1 58 7	4 2 20	11 s44 11 43	0 57	9 s 2 6 9 2 5	2 38	18n34 18 35	0 15	7 33	0 58		2n32 2 32	5n23 5 20	4 45	19 21		3 s30 3 30
F 3 S 4	22 23 22 30		19 22 40 46 23 7	0 33 24 39 0 43 24 29			11 42 11 41	0 58 0 58	9 24 9 23		18 36 18 37				23 5523 55	2 32 2 32	5 17 5 13		19 23 19 26	16 42 16 43	3 30 3 31
S 5 M 6	22 37 22 43	27 13 5	1 23 32 2 23 54	1 1 24 10	1 20 6	4 2 25	11 39	0 58 0 58	9 23 9 22	2 38	18 38 18 39	0 14	7 33	0 59	23 55	2 32 2 32	5 8 5 4	4 40	19 31	16 43 16 44	3 31 3 31
W 8 T 9		20 57 4	49 24 14 21 24 31 39 24 45	1 17 23 49	0 58 5	20 2 29	11 38 11 37	0 59 0 59 0 59	9 21 9 21 9 20	2 37	18 39 18 40 18 41		7 32	0 59	23 5423 5423 54	2 32 2 32 2 32	5 1 4 58 4 56	4 38		16 45 16 46 16 47	3 31 3 31 3 31
F 10 S 11	23 4 23 9	4 12 1	45 24 57 40 25 5	1 37 23 17	0 23 4 :	2 31	11 37 11 37	1 0	9 20 9 19	2 36	18 42 18 43	0 14	7 32	0 59		2 32 2 32	4 55 4 55	4 34	19 42 19 44	16 48	3 31 3 32
S 12 M13 T 14 W15	23 13 23 16 23 19	9 4 0n- 15 24 2	28 25 11 47 25 14 1 25 15	1 50 22 44	0s 3 4 2 0 16 4	20 2 33 5 2 34	11 36	1 0 1 1 1	9 19 9 18 9 18	2 36 2 36	18 45	0 14 0 14	7 32 7 32	0 59 0 59	23 53 23 53	2 32 2 32 2 32	4 55 4 55 4 55	4 32 4 30	19 50 19 52	16 50	3 32 3 32 3 32
T 16 F 17	23 24 23 26	27 49 4	8 25 12 3 25 8 41 25 1 0 24 52	1 56 22 21 1 57 22 9	0 43 3 3 0 57 3 3	35 2 37 21 2 38		1 1 1 2 1 2	9 17 9 17 9 17 9 16			0 14 0 14	7 32 7 32	0 59 0 59	23 53 23 52 23 52 23 52	2 32 2 32 2 32 2 32	4 53 4 50 4 47 4 43	-	19 57 20 0		3 32 3 33 3 33 3 33
S 19 M20 T 21	23 28	26 53 4 2 23 43 4	58 24 40 38 24 27 3 24 12	1 58 21 45 1 57 21 33	1 25 2 :	51 2 40 57 2 41	11 36 11 36	1 2 1 2 1 3	9 16 9 16 9 16	2 34 2 34	18 49	0 14 0 14	7 33 7 33	0 59 0 59	23 52 23 51	2 32 2 32 2 32	4 39 4 35 4 32	4 24 4 23	20 5 20 8	16 54 16 55 16 55	3 33 3 33 3 34
W22 T 23 F 24	23 29 23 28 23 27	14 2 3 8 21 2	15 23 55 18 23 37 17 23 17	1 54 21 9 1 51 20 57	2 8 2 2 22 1 :	8 2 43 3 2 45	11 36 11 37	1 3 1 3 1 4	9 15 9 15 9 15	2 34 2 33		0 14 0 14	7 33 7 33	0 59 0 59	23 51 23 51	2 33 2 33 2 33	4 30 4 29 4 28	4 20 4 19		16 56 16 57	3 34 3 34 3 34
S 25 S 26	23 25 23 24	3s19 0	17 23 17 13 22 56 50 22 33	1 44 20 33		2 47		1 4	9 15 9 15	2 33	18 53 18 54	0 14	7 33	0 59		2 33	4 28	4 17	20 21 20 23	16 58	3 34
M27 T 28	23 21 23 19	14 9 1 1 18 51 2		1 34 20 9 1 28 19 58	3 16 0 3 3 28 0 4	66 2 49 12 2 50	11 39 11 40	1 4 1 5 1 5	9 15 9 15 9 15	2 32 2 32	18 54 18 55 18 56	0 14 0 14	7 34 7 34 7 34	1 0 1 0	23 50 23 50	2 33 2 33 2 33	4 28 4 26 4 24	4 14 4 13	20 26 20 28 20 31	16 59 17 0	3 35 3 35 3 35
T 30			13 20n53			-	11 41 11 s41	1 s 5	9 13 9s15		18n56			-	23 49 23n49	2 33 2n33				17 0 17n 1	

Julian Day Number = 2338106.5, Delta T = 18.69 sec Ecliptic obliquity = 23°28'55, Nutation = -0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°24'17, Lahiri = 19°31'18Greg. Calendar

JULY 1689 GC 00:00 UT

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F 1	18 38 42	9936'34	20 х 19	3 Ω 49	1°R54	6 Υ 40	2°R16	0°R22	25 8 34	13°R 5	249514	10°R46	10 Y 28	19 M 2	1 Ⅱ 44	F 1
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S 3	18 46 35	11°30'54	15° 1	6°33	0°47	7°54	2°12	0°D22	25°39	13° 4	24°17	10°20	10°22	19°15	1°52	S 3
M 4	18 50 32	12°28'05	27°40	7°52	0°15	8°31	2° 9	0°22	25°42	13° 3	24°19	10° 7	10°19	19°22	1°56	M 4
T 5	18 54 28	13°25'15	10≈30	9° 8	29∏45	9° 8	2° 7	0°22	25°44	13° 3	24°21	9°56	10°16	19°29	2° 0	T 5
W 6	18 58 25	14°22'26	23°31	10°21	29°18	9°45	2° 4	0°23	25°47	13° 2	24°22	9°48	10°12	19°35	2° 4	W 6
T 7	19 221	15°19'37	6) 44	11°32	28°52	10°21	2° 1	0°23	25°50	13° 1	24°24	9°42	10° 9	19°42	2° 7	T 7
F 8	19 6 18	16°16'49	20° 8	12°41	28°28	10°58	1°58	0°23	25°52	13° 1	24°26	9°39	10° 6	19°49	2°11	F 8
S 9	19 10 14	17°14'01	3 ℃ 45	13°46	28° 6	11°34	1°54	0°24	25°55	13° 0	24°27	9°38	10° 3	19°55	2°15	S 9
S 10	19 14 11	18°11'13	17°35	14°49	27°47	12°10	1°51	0°24	25°57	12°59	24°29	9°38	10° 0	20° 2	2°19	S 10
M11	19 18 7	19° 8'27	1839	15°49	27°30	12°45	1°47	0°25	25°59	12°59	24°31	9°38	9°56	20° 9	2°22	M11
T 12	19 22 4	20° 5'41	15°56	16°46	27°15	13°21	1°43	0°26	26° 2	12°58	24°32	9°36	9°53	20°16	2°26	T 12
W13	19 26 1	21° 2'56	0Ⅱ25	17°40	27° 3	13°56	1°39	0°27	26° 4	12°57	24°34	9°32	9°50	20°22	2°29	W13
T 14	19 29 57	22° 0'12	15° 1	18°30	26°53	14°31	1°35	0°28	26° 6	12°56	24°35	9°25	9°47	20°29	2°33	T 14
F 15	19 33 54	22°57'28	29°39	19°17	26°45	15° 6	1°30	0°29	26° 9	12°55	24°37	9°16	9°44	20°36	2°36	F 15
S 16	19 37 50	23°54'45	149911	20° 1	26°40	15°40	1°26	0°30	26°11	12°54	24°39	9° 5	9°41	20°42	2°40	S 16
S 17	19 41 47	24°52'03	28°31	20°41	26°38	16°14	1°21	0°31	26°13	12°53	24°40	8°54	9°37	20°49	2°43	S 17
M18	19 45 43	25°49'21	$12\Omega_{32}$	21°17	26°D37	16°48	1°16	0°33	26°15	12°52	24°42	8°44	9°34	20°56	2°46	M18
T 19	19 49 40	26°46'40	26°11	21°49	26°39	17°22	1°11	0°34	26°17	12°51	24°44	8°36	9°31	21° 2	2°50	T 19
W20	19 53 36	27°43'59	9 m 25	22°17	26°43	17°55	1° 6	0°36	26°20	12°50	24°45	8°30	9°28	21° 9	2°53	W20
T 21	19 57 33	28°41'19	22°15	22°41	26°49	18°28	1° 0	0°38	26°22	12°49	24°47	8°27	9°25	21°16	2°56	T 21
F 22	20 1 30	29°38'39	4 º 44	23° 0	26°58	19° 1	0°55	0°39	26°24	12°48	24°49	8°D26	9°22	21°22	2°59	F 22
S 23	20 5 26	0 Ω 35'59	16°56	23°14	27° 8	19°34	0°49	0°41	26°26	12°47	24°50	8°26	9°18	21°29	3° 2	S 23
S 24	20 9 23	1°33'20	28°55	23°24	27°21	20° 6	0°43	0°43	26°27	12°46	24°52	8°R27	9°15	21°36	3° 5	S 24
M25	20 13 19	2°30'42	10 M .47	23°R29	27°36	20°38	0°37	0°45	26°29	12°45	24°54	8°26	9°12	21°42	3° 8	M25
T 26	20 17 16	3°28'04	22°37	23°29	27°52	21°10	0°31	0°47	26°31	12°44	24°55	8°24	9° 9	21°49	3°11	T 26
W27	20 21 12	4°25'27	4 ₹ 30	23°23	28°11	21°41	0°25	0°50	26°33	12°42	24°57	8°20	9° 6	21°56	3°14	W27
T 28	20 25 9	5°22'51	16°30	23°12	28°31	22°12	0°18	0°52	26°35	12°41	24°59	8°14	9° 2	22° 2	3°17	T 28
F 29	20 29 5	6°20'15	28°42	22°56	28°53	22°43	0°12	0°54	26°36	12°40	25° 0	8° 5	8°59	22° 9	3°20	F 29
S 30	20 33 2	7°17'40	11중 8	22°35	29°17	23°13	0° 5	0°57	26°38	12°39	25° 2	7°56	8°56	22°16	3°22	S 30
S 31	20 36 59	8 Ω 15′06	23 る 48	22 N 9	29∏42	23 Y 43	29≈59	1 M 0	26840	12) 37	259 3	7 Ƴ 45	8 Y 53	22 M 22	3 Ⅱ 25	S 31

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S 3 M 4 T 5 W 6 T 7	22 54 22 48 22 42 22 36	25 20 4 46 21 47 4 19 17 8 3 38 11 36 2 44	19 2 18 33 18 4 17 35	0 52 19 4 0 43 18 55 0 34 18 46 0 24 18 38 0 14 18 30	4 24 0 28 4 34 0 41 4 43 0 55 4 51 1 8 4 59 1 22	2 56 2 57 2 58 2 59	11 46 11 47 11 48 11 49	1 6 1 6 1 7 1 7 1 7	9 16 9 16 9 17 9 17 9 17	2 30 2 30 2 30 2 30	19 0 19 0 19 1	0 14 0 14 0 14 0 14 0 14	7 35 1 0 7 35 1 0 7 36 1 0 7 36 1 0 7 36 1 0	23 48 2 33 23 48 2 33 23 48 2 33 23 47 2 33	4 6 4 1 3 57 3 53 3 51	4 3 4 2	20 46 20 48 20 51	17 3 3 37 17 3 3 37 17 4 3 37 17 4 3 37
F 8 S 9 S 10	22 29 22 22 22 15	1n 1 0 31	16 36	0 4 18 23 0s 7 18 16 0 18 18 10	5 6 1 35 5 12 1 48 5 18 2 1		11 52	1 8 1 8 1 8	9 189 189 19	2 292 292 29	19 2	0 14 0 14 0 14	7 36 1 0 7 37 1 0 7 37 1 0	23 47 2 33	3 50 3 50 3 49	3 59	20 5320 5620 58	
M11 T 12 W13 T 14 F 15 S 16	22 7 21 59 21 50 21 41 21 31 21 22	24 6 3 54 27 11 4 35 28 26 4 57	15 10 14 43 14 15	0 30 18 4 0 42 17 59 0 54 17 55 1 6 17 51 1 19 17 48 1 32 17 46	5 23 2 14 5 28 2 27 5 32 2 40 5 35 2 53 5 38 3 5 5 41 3 18	3 4 3 5 3 6 3 7	11 57 11 59 12 1 12 2	1 8 1 9 1 9 1 9 1 9 1 10	9 19 9 20 9 20 9 21 9 21 9 22	2 28	19 4 19 4 19 5 19 5	0 14 0 14 0 14 0 14 0 14 0 14	7 37 1 0 7 38 1 0 7 38 1 0 7 39 1 0 7 39 1 0 7 39 1 0	23 46 2 34 23 46 2 34 23 46 2 34 23 45 2 34	3 49 3 49 3 47 3 44 3 41 3 36	3 57 3 55 3 54 3 53 3 52 3 50	21 3 21 6 21 8	17 7 3 39 17 8 3 39
S 17 M18 T 19 W20 T 21 F 22 S 23	21 12 21 1 20 50	25 8 4 44 21 5 4 11 16 1 3 22 10 20 2 28 4 23 1 25 1 s 35 0 20	12 58 12 34 12 11 11 49 11 29	1 45 17 44 1 58 17 42 2 12 17 41 2 25 17 41 2 38 17 41 2 51 17 41 3 4 17 42	5 43 3 36 5 44 3 42 5 45 3 54 5 46 4 6 5 46 4 36 5 45 4 41	3 8 3 9 3 10 3 11 3 12 3 12	12 6 12 8 12 10 12 12 12 15 12 17	1 10 1 10 1 10 1 10 1 11 1 11 1 11 1 11	9 23 9 24 9 24 9 25 9 26 9 27 9 28	2 27 2 27 2 26 2 26 2 26	19 6 19 7 19 7 19 8 19 8 19 9	0 14 0 14 0 14 0 14 0 14 0 14	7 40 1 0 7 40 1 0 7 40 1 0 7 41 1 0 7 41 1 0 7 42 1 0 7 42 1 0	23 45 2 34 23 45 2 34 23 45 2 34 23 44 2 34 23 44 2 34 23 44 2 34	3 32 3 28 3 25 3 23 3 21 3 21	3 49 3 48 3 47 3 45 3 44 3 43	21 16 21 18	17 9 3 40 17 9 3 40 17 9 3 41 17 10 3 41 17 10 3 42
S 24 M25 T 26 W27 T 28 F 29 S 30	19 38 19 25 19 11 18 57 18 43 18 29	17 40 2 43 21 53 3 33 25 13 4 13 27 29 4 43 28 28 5 0	10 14 10 5 9 58 9 53 9 51	3 17 17 43 3 30 17 45 3 42 17 46 3 53 17 49 4 4 17 51 4 14 17 53 4 23 17 56 4 s31 17n59	5 44 4 52 5 43 5 4 5 42 5 15 5 40 5 26 5 38 5 37 5 35 5 47 5 33 5 58 5 830 6n 8	3 15 3 16 3 16 3 17 3 18 3 18	12 24 12 26 12 28 12 31 12 33 12 36	1 12 1 12 1 12 1 12 1 13 1 13 1 13 1 13	9 29 9 30 9 31 9 32 9 33 9 34 9 35 9 36	2 24 2 24 2 24	19 10	0 14 0 14 0 14 0 14 0 14 0 14	7 43 1 1 1 7 43 1 1 1 7 44 1 1 1 7 45 1 1 1 7 46 1 1 1 7 846 1 1 1 7 846 1 1 1 1 7 846 1 1 1 1	23 43 2 34 23 43 2 34 23 43 2 35 23 42 2 35 23 42 2 35	3 21 3 21 3 20 3 19 3 16 3 13 3 9 3n 5	3 39 3 38 3 37 3 35 3 34 3 33	21 33 21 35 21 37 21 40 21 42 21 45 21 47 21 849	17 11 3 42 17 11 3 43 17 11 3 43 17 12 3 43 17 12 3 44

Julian Day Number = 2338136.5, Delta T = 18.65 sec Ecliptic obliquity = $23^{\circ}28'55$, Nutation = - $0^{\circ}00'03$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}24'22$, Lahiri = $19^{\circ}31'22$ Greg. Calendar

AUGUST 1689 GC 00:00 UT

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M 1	20 40 55	9 Ω 12'33	6≈44	21°R39	099 9	24Υ13	29°R52	1 m 2	26841	12°R36	259 5	7°R35	8 Y 50	22M29	3Ⅲ28	M 1
T 2	20 44 52	10°10'01	19°54	218 3	0°37	24°42	29≈45	1° 5	26°43	12) 35	25° 7	7 Υ 26	8°47	22°36	3°30	T 2
W 3	20 48 48	11° 7'30	3) 17	20°24	1° 7	25°11	29°38	1° 8	26°44	12°33	25° 8	7°20	8°43	22°43	3°33	W 3
T 4	20 52 45	12° 5'00	16°52	19°42	1°39	25°39	29°31	1°11	26°46	12°32	25°10	7°16	8°40	22°49	3°35	T 4
F 5	20 56 41	13° 2'31	0 Υ 36	18°56	2°12	26° 7	29°24	1°14	26°47	12°31	25°11	7°14	8°37	22°56	3°38	F 5
S 6	21 0 38	14° 0'04	14°28	18° 8	2°46	26°35	29°16	1°17	26°48	12°29	25°13	7°D14	8°34	23° 3	3°40	S 6
S 7	21 434	14°57'38	28°28	17°19	3°21	27° 2	29° 9	1°20	26°50	12°28	25°15	7°15	8°31	23° 9	3°42	S 7
M 8	21 8 31	15°55'14	12833	16°30	3°58	27°29	29° 2	1°24	26°51	12°27	25°16	7°R16	8°28	23°16	3°44	M 8
T 9	21 12 28	16°52'51	26°44	15°41	4°36	27°56	28°54	1°27	26°52	12°25	25°18	7°15	8°24	23°23	3°47	T 9
W10	21 16 24	17°50'30	10 ∏ 58	14°53	5°15	28°22	28°46	1°30	26°53	12°24	25°19	7°13	8°21	23°29	3°49	W10
T 11	21 20 21	18°48'10	25°13	14° 8	5°55	28°47	28°39	1°34	26°54	12°22	25°21	7° 9	8°18	23°36	3°51	T 11
F 12	21 24 17	19°45'52	99925	13°27 12°49	6°36	29°12	28°31	1°38	26°55	12°21 12°19	25°22	7° 3	8°15 8°12	23°43	3°53	F 12 S 13
S 13	21 28 14	20°43'36	23°31		7°19	29°37	28°23	1°41	26°56	-	25°24	6°56		23°49	3°55	
S 14	21 32 10	21°41'21	$7\Omega_{26}$	12°17	8° 2	0 8 1	28°16	1°45	26°57	12°18	25°25	6°48	8° 8	23°56	3°56	S 14
M15	21 36 7	22°39'08	21° 5	11°50	8°46	0°25	28° 8	1°49	26°58	12°16	25°27	6°42	8° 5	24° 3	3°58	M15
T 16	21 40 4	23°36'55	4 m/28	11°30	9°31	0°48	28° 0	1°53	26°59	12°15	25°28	6°36	8° 2	24° 9	4° 0	T 16
W17	21 44 0	24°34'45	17°30	11°17	10°17	1°10	27°52	1°57	27° 0	12°13	25°30	6°33	7°59	24°16	4° 2	W17
T 18	21 47 57	25°32'35	0 <u>₽</u> 13	11°D11 11°13	11° 4	1°32	27°44	2° 1	27° 1	12°12	25°31	6°31	7°56	24°23 24°29	4° 3 4° 5	T 18 F 19
F 19 S 20	21 51 53 21 55 50	26°30'27 27°28'20	12°39 24°49	11°13 11°23	11°51 12°40	1°54 2°14	27°36 27°28	2° 5 2°10	27° 1 27° 2	12°10 12° 8	25°33 25°34	6°D31 6°32	7°53 7°49	24°29 24°36	4° 5 4° 6	S 20
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S 21	21 59 46	28°26'14	6M48	11°40	13°29	2°35	27°20	2°14	27° 3	12° 7	25°36	6°34	7°46	24°43	4° 8	S 21
M22	22 3 43	29°24'10	18°41	12° 6	14°19	2°55	27°13	2°19	27° 3	12° 5	25°37	6°35	7°43	24°50	4° 9	M22
T 23	22 7 39	0 10 22 07	0 x ⁷ 32	12°39 13°21	15° 9 16° 1	3°14	27° 5	2°23	27° 4	12° 4	25°39	6°R35	7°40	24°56	4°10	T 23 W24
W24 T 25	22 11 36 22 15 32	1°20'06	12°26 24°28	13°21 14° 9	16°52	3°32 3°50	26°57 26°49	2°28 2°32	27° 4 27° 4	12° 2 12° 0	25°40 25°41	6°35 6°33	7°37 7°34	25° 3 25°10	4°11 4°12	W24 T 25
F 26	22 19 32	2°18'06 3°16'07	6 Z 43	15° 6	10°52	4° 7	26°49 26°41	2°37	27° 4	11°59	25°41 25°43	6°29	7°34 7°30	25°16	4°12 4°14	F 26
S 27	22 19 29 22 23 26	4°14'10	19°14	16° 9	17 43 18°38	4°24	26°33	2°42	27° 5	11°57	25°44	6°24	7°27	25°23	4°15	S 27
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S 28	22 27 22	5°12'14	2≈ 3	17°19	19°32	4°40	26°26	2°47	27° 5	11°55	25°45	6°19	7°24	25°30	4°15	S 28
M29	22 31 19	6°10'20	15°12	18°35	20°26	4°55	26°18	2°52	27° 6	11°54	25°47	6°14	7°21	25°36	4°16	M29
T 30 W31	22 35 15 22 39 12	7° 8'27 8 m 6'36	28°40 12) 25	19°57 21 Ω 24	21°21 22 © 17	5°10 5 8 24	26°10 26≈ 3	2°57 3 M 2	27° 6 27 8 6	11°52 11 ¥ 51	25°48 25 © 49	6°10 6 ℃ 7	7°18 7 Ƴ 14	25°43 25 N L50	4°17 4 Ⅱ 18	T 30 W31
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W 3 T 4 F 5	17 28 17 12 16 56		10 20 4	4 48 18 9 5 20 4 50 18 12 5 16 4 51 18 15 5 12	6 48 3 22	12 49 1 14	9 40 2 23 9 41 2 22 9 42 2 22	19 14 0 15	7 48 1 1 7 48 1 1 7 49 1 1	23 41 2 35	2 55 2 53 2 53	3 28 21 56 3 27 21 59 3 25 22 1	17 13 3 46
S 6	16 39	6n19 0n39	10 49 4	1 50 18 19 5 8	7 7 3 23	12 54 1 14	9 44 2 22	19 15 0 15	7 49 1 1	23 41 2 35	2 53	3 24 22 3	17 13 3 46
S 7 M 8 T 9 W10	-	18 28 2 58	11 26 4 11 46 4	4 47 18 22 5 4 4 42 18 25 5 6 4 36 18 29 4 56 4 27 18 32 4 51	7 26 3 24 7 35 3 24	13 3 1 15	9 46 2 21 9 48 2 21		7 51 1 1 7 51 1 1	23 40 2 36 23 40 2 36	2 53 2 53 2 53 2 52	3 23 22 6 3 22 22 8 3 20 22 10 3 19 22 13	17 13 3 47
T 11 F 12 S 13	14 55		12 54 4	4 17 18 35 4 47 4 5 18 38 4 42 3 52 18 40 4 37	8 0 3 26	13 11 1 15	9 51 2 21 9 52 2 20 9 54 2 20		7 52 1 1 7 53 1 1 7 53 1 1	23 39 2 36	2 51 2 48 2 45	3 18 22 15 3 17 22 17 3 15 22 20	17 13 3 48
S 14 M15 T 16 W17 T 18 F 19 S 20	14 18 13 59 13 40 13 21 13 2 12 42 12 22	12 27 2 45 6 30 1 41 0 26 0 34 5 s 31 0 s 33	14 2 3 14 23 3 14 43 2 15 2 2 15 19 2	3 5 18 47 4 22 2 48 18 49 4 13	8 24 3 27 8 32 3 27 8 40 3 27 8 47 3 28	13 20 1 16 13 23 1 16 13 25 1 16 13 28 1 16 13 31 1 16	9 57 2 20 9 58 2 19 10 0 2 19 10 1 2 19 10 3 2 19	19 17 0 15 19 17 0 15		23 39 2 36 23 39 2 36 23 38 2 36 23 38 2 36 23 38 2 37	2 42 2 40 2 38 2 36 2 35 2 35 2 36	3 14 22 22 3 13 22 24 3 12 22 26 3 10 22 29 3 9 22 31 3 8 22 33 3 7 22 36	17 13 3 50 17 13 3 50 17 13 3 50 17 13 3 51 17 13 3 51
S 21 M22 T 23 W24 T 25 F 26 S 27	11 22	20 46 3 29 24 25 4 12 27 2 4 45 28 27 5 5 28 30 5 12	15 56 1 16 4 1 16 8 0 16 10 0 16 9 0	1 37 18 53 3 56 1 19 18 54 3 56 1 1 18 54 3 45 0 44 18 53 3 36 0 28 18 53 3 34 0 12 18 52 3 28 0n 3 18 50 3 23	9 14 3 29 9 20 3 29 9 27 3 29 9 33 3 29 9 38 3 29	13 39 1 16 13 42 1 17 13 45 1 17 13 48 1 17 13 51 1 17	10 8 2 18 10 10 2 18 10 12 2 18 10 13 2 17 10 15 2 17	19 18 0 15 19 18 0 15	7 59 1 1 8 0 1 1 8 0 1 1 8 1 1 1 8 2 1 1	23 38 2 37 23 37 2 37 23 37 2 37 23 37 2 37 23 37 2 37	2 37 2 37 2 37 2 37 2 36 2 35 2 33	3 4 22 40 3 3 22 42 3 2 22 44	
S 28 M29 T 30 W31	9 16	20 11 4 3 14 56 3 11	15 46 0 15 31 0	0 17 18 49 3 17 0 30 18 46 3 17 0 42 18 44 3 6 0n53 18n41 3s 6	9 54 3 29 9 59 3 29	13 59 1 17 14 1 1 17	10 21 2 17 10 23 2 16	19 18 0 15 19 18 0 15 19 18 0 15 19n18 0 s15	8 3 1 1 8 4 1 1		2 31 2 29 2 27 2n26	2 57 22 53 2 55 22 56 2 54 22 58 2n53 23s 0	17 11 3 55 17 11 3 55

Julian Day Number = 2338167.5, Delta T = 18.61 sec Ecliptic obliquity = $23^{\circ}28'56$, Nutation = - $0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}24'26$, Lahiri = $19^{\circ}31'26$ Greg. Calendar

SEPTEMBER 1689 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(卉	Р	P	ß	Ç	ę,	Day
T 1	22 43 8	9 m) 4'46	26) 25	22 Ω 56	239513	5 8 37	25°R55	3 m 7	27°R 6	11°R49	25951	6°R 6	7 Υ 11	25M56	4 Ⅱ 18	T 1
F 2	22 47 5	10° 2'58	10 Y 36	24°32	24° 9	5°50	25≈48	3°12	27 8 6	11) (47	25°52	6°D 5	7° 8	26° 3	4°19	F 2
S 3	22 51 1	11° 1'13	24°53	26°12	25° 6	6° 2	25°40	3°17	27° 6	11°46	25°53	6 Y 6	7° 5	26°10	4°20	S 3
S 4	22 54 58	11°59'29	9813	27°55	26° 4	6°13	25°33	3°22	27° 6	11°44	25°54	6° 8	7° 2	26°16	4°20	S 4
M 5	22 58 55	12°57'48	23°31	29°41	27° 2	6°23	25°26	3°28	27° 6	11°42	25°56	6° 9	6°59	26°23	4°20	M 5
T 6	23 2 51	13°56'09	7 Ⅱ 46	1 m 28	28° 0	6°32	25°19	3°33	27° 5	11°41	25°57	6°R10	6°55	26°30	4°21	T 6
W 7	23 6 48	14°54'32	21°55	3°18	28°59	6°41	25°12	3°39	27° 5	11°39	25°58	6°10	6°52	26°37	4°21	W 7
T 8	23 10 44	15°52'57	5957	5° 9	29°58	6°49	25° 5	3°44	27° 5	11°37	25°59	6° 9	6°49	26°43	4°21	T 8
F 9	23 14 41	16°51'24	19°48	7° 1	0 Ω 58	6°56	24°58	3°50	27° 4	11°36	26° 0	6° 7	6°46	26°50	4°21	F 9
S 10	23 18 37	17°49'53	3 Ω 29	8°53	1°58	7° 2	24°51	3°56	27° 4	11°34	26° 1	6° 5	6°43	26°57	4°R21	S 10
S 11	23 22 34	18°48'25	16°57	10°46	2°58	7° 8	24°45	4° 1	27° 4	11°32	26° 3	6° 2	6°40	27° 3	4°21	S 11
M12	23 26 30	19°46'58	0 m p 1 1	12°39	3°59	7°12	24°38	4° 7	27° 3	11°31	26° 4	6° 0	6°36	27°10	4°21	M12
T 13	23 30 27	20°45'34	13°11	14°32	5° 1	7°16	24°32	4°13	27° 2	11°29	26° 5	5°58	6°33	27°17	4°21	T 13
W14	23 34 24	21°44'11	25°56	16°25	6° 2	7°19	24°26	4°19	27° 2	11°28	26° 6	5°57	6°30	27°23	4°21	W14
T 15	23 38 20	22°42'51	8 ≏ 26	18°17	7° 4	7°20	24°20	4°25	27° 1	11°26	26° 7	5°D57	6°27	27°30	4°20	T 15
F 16	23 42 17	23°41'32	20°44	20° 9	8° 6	7°21	24°14	4°31	27° 0	11°24	26° 8	5°57	6°24	27°37	4°20	F 16
S 17	23 46 13	24°40'15	2M50	22° 0	9° 9	7°R22	24° 8	4°37	27° 0	11°23	26° 9	5°58	6°20	27°43	4°19	S 17
S 18	23 50 10	25°39'00	14°47	23°50	10°12	7°21	24° 2	4°43	26°59	11°21	26°10	5°59	6°17	27°50	4°19	S 18
M19	23 54 6	26°37'47	26°38	25°40	11°15	7°19	23°57	4°49	26°58	11°20	26°11	6° 0	6°14	27°57	4°18	M19
T 20	23 58 3	27°36'35	8 ₹ 29	27°29	12°19	7°17	23°51	4°55	26°57	11°18	26°12	6° 1	6°11	28° 4	4°18	T 20
W21	0 1 59	28°35'26	20°22	29°16	13°22	7°13	23°46	5° 1	26°56	11°16	26°12	6° 1	6° 8	28°10	4°17	W21
T 22	0 5 56	29°34'18	2 る 23	1 ₾ 3	14°27	7° 9	23°41	5° 8	26°55	11°15	26°13	6°R 2	6° 5	28°17	4°16	T 22
F 23	0 9 53	0 ≏ 33'12	14°36	2°50	15°31	7° 4	23°36	5°14	26°54	11°13	26°14	6° 1	6° 1	28°24	4°15	F 23
S 24	0 13 49	1°32'08	27° 6	4°35	16°36	6°58	23°32	5°20	26°53	11°12	26°15	6° 1	5°58	28°30	4°14	S 24
S 25	0 17 46	2°31'05	9 ≈ 57	6°19	17°40	6°51	23°27	5°27	26°52	11°10	26°16	6° 1	5°55	28°37	4°13	S 25
M26	0 21 42	3°30'04	23°10	8° 3	18°46	6°43	23°23	5°33	26°51	11° 9	26°17	6° 0	5°52	28°44	4°12	M26
T 27	0 25 39	4°29'05	6) €47	9°45	19°51	6°34	23°19	5°40	26°50	11° 7	26°17	6° 0	5°49	28°50	4°11	T 27
W28	0 29 35	5°28'08	20°47	11°27	20°57	6°25	23°15	5°46	26°48	11° 6	26°18	6° 0	5°45	28°57	4°10	W28
T 29	0 33 32	6°27'13	5Υ 8	13° 8	22° 3	6°15	23°11	5°53	26°47	11° 4	26°19	6° 0	5°42	29° 4	4° 8	T 29
F 30	0 37 28	7 ₽ 26'20	19 Y 43	14 ≏ 48	23Ω 9	6 8 4	23≈ 7	5 M .59	26 8 46	11) 3	269520	6 ℃ 0	5 Υ 39	29 M .10	4 I 7	F 30

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T 1 F 2 S 3	8n11 7 49 7 27	4n35 0n25	14 30	1n 3 18n37 1 13 18 33 1 21 18 29	2 s54 10n 2 48 10 2 43 10	3 3 28	14s 6 14 9 14 12	1 17	10 s26 10 28 10 30	2 16	19n18 19 18 19 18	0 15	8s 5 1s 1 8 6 1 1 8 7 1 1		2n25 2 25 2 26	2n51 2 50 2 49	-	17n11 3 s 5 6 17 10 3 5 6 17 10 3 5 7
S 4 M 5 T 6 W 7 T 8 F 9	6 20 5 57	22 26 3 52 26 12 4 37 28 19 5 5 28 35 5 15	13 4 12 30 11 54 11 16	1 27 18 24 1 33 18 19 1 38 18 13 1 42 18 7 1 45 18 0 1 47 17 53	2 37 10 2 2 31 10 2 2 26 10 2 2 20 10 3 2 14 10 3 2 9 10 3	25 3 27 28 3 26 32 3 26 35 3 25	14 16 14 19 14 21	1 17 1 17 1 17 1 17		2 15 2 15	19 18 19 18 19 18	0 15 0 15 0 15 0 15	8 7 1 1 8 8 1 1 8 9 1 1 8 9 1 1 8 10 1 1	23 36 2 38 23 35 2 39 23 35 2 39 23 35 2 39	2 26 2 27 2 27 2 27 2 27 2 26	2 45	23 11 23 13 23 15 23 17	17 9 3 58 17 9 3 58 17 9 3 59
S 10 S 11 M12 T 13 W14	-	23 57 4 40 19 34 3 58 14 19 3 5	9 56 9 13 8 30 7 46	1 49 17 45 1 49 17 37 1 49 17 29 1 48 17 20 1 47 17 10	2 3 10 4 1 57 10 4 1 52 10 4 1 46 10 4 1 41 10 4	10 3 24 13 3 23 15 3 23 17 3 22	14 28 14 30 14 32 14 35	1 17 1 17 1 17	10 45 10 47 10 49 10 51	2 142 142 14	19 18 19 18 19 18 19 18	0 15 0 15 0 15 0 15	8 11 1 1 8 12 1 1 8 12 1 1 8 13 1 1 8 14 1 2	23 35 2 39 23 35 2 39 23 35 2 39 23 35 2 39	2 25 2 24 2 23 2 22 2 22	2 402 39	23 22 23 24 23 26 23 28	17 8 3 59 17 7 4 0
T 15 F 16 S 17	2 54 2 31 2 7	3 s 3 4 0 s 1 4 9 2 1 1 2 1 1 4 4 3 2 2 3	5 28	1 45 17 0 1 42 16 50 1 39 16 39	1 35 10 3 1 30 10 3 1 24 10 3	3 19	14 39 14 40 14 42	1 17 1 17 1 17		2 13 2 13 2 13			8 14 1 2 8 15 1 2 8 15 1 2	2 3 35 2 40	2 22 2 22 2 23		23 32 23 34 23 36	17 6 4 1 17 5 4 2 17 5 4 2
S 18 M19 T 20 W21 T 22 F 23 S 24	1 21 0 57 0 34 0 10 0 s13		3 7 2 20 1 33 0 46 0s 2	1 35 16 27 1 31 16 15 1 27 16 3 1 22 15 50 1 17 15 36 1 12 15 22 1 6 15 8	1 19 10 3 1 14 10 3 1 8 10 3 1 3 10 3 0 58 10 3 0 53 10 3 0 48 10 3	34 3 15 34 3 14 35 3 13 35 3 11 34 3 10	14 44 14 46 14 48 14 49 14 51 14 52 14 54	1 17 1 16 1 16 1 16 1 16	11 4 11 6	2 13 2 13 2 13 2 12 2 12	19 16	0 15 0 15 0 15 0 15 0 15	8 16 1 2 8 17 1 2 8 17 1 2 8 18 1 2 8 18 1 2 8 19 1 2 8 20 1 1	23 34 2 40 23 34 2 40 23 34 2 40 23 34 2 41 23 34 2 41	2 23 2 23 2 24 2 24 2 24 2 24 2 24 2 24	2 29 2 28 2 26 2 25 2 24	23 43 23 45 23 47	17 4 4 3 17 3 4 3 17 3 4 3 17 2 4 4 17 2 4 4
S 25 M26 T 27 W28 T 29 F 30	1 0 1 24 1 47 2 11 2 34 2 s57		2 21 3 8 3 53 4 39	1 1 14 53 0 55 14 38 0 49 14 22 0 42 14 6 0 36 13 50 0n29 13n32	0 43 10 3 0 38 10 3 0 33 10 3 0 28 10 3 0 23 10 4 0 s18 10n4	33 3 4 42 3 3 30 3 1 49 2 59	14 58	1 16 1 16 1 16 1 16	11 22	2 12 2 12 2 12 2 12	19 15	0 15 0 15 0 15 0 15	8 20 1 1 8 21 1 1 8 22 1 1 8 8 22 1 1 8 8 22 1 1 8 8 22 1 1 8 8 23 1 s 1	23 34 2 41 23 34 2 41 23 34 2 41	2 23 2 23 2 23 2 23 2 23 2 23 2 n23	2 20 2 19 2 17 2 16	23 53 23 55 23 57 23 59 24 1 24s 3	17 0 4 5 17 0 4 6 16 59 4 6 16 58 4 6

 $\label{eq:Julian Day Number = 2338198.5, Delta T = 18.57 sec} \\ Ecliptic obliquity = 23°28'56, Nutation = -0°00'01, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°24'30, Lahiri = 19°31'31Greg. Calendar \\ \\$

OCTOBER 1689 GC 00:00 UT

0010	DEN EU	os uc													00.0	0 0 1
Day	Sid.t	0)	ğ	φ	♂	4	ħ)∤(并	В	u	Ω	Ç	ķ	Day
S 1	0 41 25	8 ≏ 25'29	4 8 28	16 ≏ 27	24⋒15	5°R52	23°R 4	6M 6	26°R44	11°R 1	26920	6°R 0	5 Υ 36	29 M .17	4°R 6	S 1
S 2	0 45 22	9°24'40	19°15	18° 5	25°22	5 8 39	23≈ 0	6°13	26 8 43	11 米 0	26°21	5 Υ 59	5°33	29°24	4 I I 4	S 2
M 3	0 49 18	10°23'53	3 II 56	19°43	26°29	5°26	22°57	6°19	26°41	10°59	26°22	5°59	5°30	29°31	4° 3	M 3
T 4	0 53 15	11°23'09	18°27	21°20	27°36	5°11	22°54	6°26	26°40	10°57	26°22	5°59	5°26	29°37	4° 1	T 4
W 5	0 57 11	12°22'28	29543	22°56	28°43	4°57	22°52	6°33	26°38	10°56	26°23	5°58	5°23	29°44	3°59	W 5
T 6	1 1 8	13°21'49	16°42	24°31	29°51	4°41	22°49	6°40	26°37	10°55	26°23	5°D58	5°20	29°51	3°58	T 6
F 7	1 5 4	14°21'12	0 Ω 23	26° 6	0 m 58	4°25	22°47	6°46	26°35	10°53	26°24	5°58	5°17	29°57	3°56	F 7
S 8	1 9 1	15°20'37	13°46	27°40	2° 6	4° 8	22°45	6°53	26°33	10°52	26°24	5°59	5°14	0 ≯ 4	3°54	S 8
S 9	1 12 57	16°20'05	26°53	29°13	3°14	3°51	22°43	7° 0	26°32	10°51	26°25	6° 0	5°11	0°11	3°52	S 9
M10	1 16 54	17°19'34	9 m /44	0M46	4°23	3°33	22°41	7° 7	26°30	10°49	26°25	6° 1	5° 7	0°17	3°50	M10
T 11	1 20 51	18°19'06	22°22	2°18	5°31	3°14	22°40	7°14	26°28	10°48	26°26	6° 2	5° 4	0°24	3°48	T 11
W12	1 24 47	19°18'40	4 <u>Ω</u> 49 17° 5	3°49	6°40	2°56	22°38	7°21	26°26	10°47 10°46	26°26	6°R 2 6° 2	5° 1 4°58	0°31	3°46	W12
T 13 F 14	1 28 44 1 32 40	20°18'17 21°17'55	29°11	5°20 6°50	7°49 8°58	2°36 2°17	22°37 22°36	7°28 7°35	26°24 26°22	10°46 10°45	26°26 26°27	6° 2 6° 1	4°58 4°55	0°38 0°44	3°44 3°41	T 13 F 14
S 15	1 32 40	21 17 33 22°17'35	11 M .11	8°19	10° 7	1°57	22°35	7°42	26°21	10°43	26°27	5°59	4°51	0°51	3°39	S 15
					,											
S 16	1 40 33	23°17'18	23° 5	9°48	11°16	1°37	22°35	7°49	26°19	10°42	26°27	5°56	4°48	0°58	3°37	S 16
M17	1 44 30	24°17'02	4 × 755	11°16	12°26	1°17	22°35	7°56	26°17	10°41	26°28	5°53	4°45	1° 4	3°34	M17
T 18 W19	1 48 26 1 52 23	25°16'48 26°16'36	16°45 28°38	12°43 14°10	13°35 14°45	0°56 0°36	22°D35 22°35	8° 3 8°10	26°15 26°12	10°40 10°39	26°28 26°28	5°50 5°47	4°42 4°39	1°11 1°18	3°32 3°29	T 18 W19
T 20	1 56 20	20 10 30 27°16'26	28 38 10 중 37	15°36	15°55	0°15	22°35	8°17	26°10	10°39	26°28	5°45	4°36	1°24	3°27	T 20
F 21	2 0 16	28°16'17	22°47	17° 1	17° 5	29 Y 55	22°35	8°24	26° 8	10°37	26°29	5°D44	4°32	1°31	3°24	F 21
S 22	2 4 13	29°16'10	5 ≈ 12	18°25	18°15	29°34	22°36	8°31	26° 6	10°36	26°29	5°44	4°29	1°38	3°22	S 22
S 23	2 8 9	0 M L16'05	17°56	19°49	19°26	29°14	22°37	8°39	26° 4	10°35	26°29	5°45	4°26	1°45	3°19	S 23
M24	2 12 6	1°16'01	1) 4	21°12	20°36	28°54	22°38	8°46	26° 2	10°34	26°29	5°47	4°23	1°51	3°16	M24
T 25	2 16 2	2°15'59	14°38	22°34	21°47	28°34	22°40	8°53	25°59	10°33	26°29	5°48	4°20	1°58	3°13	T 25
W26	2 19 59	3°15'58	28°40	23°54	22°58	28°14	22°41	9° 0	25°57	10°33	26°29	5°R50	4°17	2° 5	3°11	W26
T 27	2 23 55	4°16'00	13 Y 8	25°14	24° 9	27°55	22°43	9° 7	25°55	10°32	26°R29	5°49	4°13	2°11	3° 8	T 27
F 28	2 27 52	5°16'03	27°58	26°33	25°20	27°36	22°45	9°14	25°53	10°31	26°29	5°48	4°10	2°18	3° 5	F 28
S 29	2 31 48	6°16'08	138 3	27°50	26°31	27°17	22°47	9°22	25°50	10°30	26°29	5°45	4° 7	2°25	3° 2	S 29
S 30	2 35 45	7°16'14	28°14	29° 6	27°42	26°59	22°49	9°29	25°48	10°30	26°29	5°41	4° 4	2°31	2°59	S 30
M31	2 39 42	8M16'23	13Ⅱ20	0 ₹ 21	28 m 53	26 Ƴ 42	22≈52	9 M .36	25 8 46	10 ∺ 29	26929	5 Ƴ 36	4Υ 1	2 ₹ 38	2 Ⅱ 56	M31

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S 1	3 s21	15n25	2n32	6s 8	0n23	13n15	0s13	10n46	2 s 5 4	15 s 3	1 s15	11 s31	2n11	19n13	0s15	8 s24 1	s 1 2	23n34 2n4	2 2n23	2n14	24s 5	16n57	4 s 7
S 2	3 44	21 3	3 38	6 52	0 16	12 57	0 9	10 44	2 52	15 3	1 15	11 33	2 11	19 13	0 15	8 24 1	1 2	23 34 2 4	2 2 23	2 12	24 7	16 57	4 8
M 3	4 7	25 23	4 29	7 35	0 9	12 39	0 4	10 41	2 49	15 4	1 15	11 35	2 11	19 13	0 15	8 25 1	1 2	23 34 2 4	2 2 23	2 11	24 9	16 56	4 8
T 4	4 31	28 0	5 2	8 18	0 2	-							2 11	-	0 15	8 25 1	1 2	23 34 2 4	_		24 11		4 8
W 5	4 54		5 17	9 0	0s 5			10 37	2 44				2 11	-		8 26 1		23 34 2 4			24 13		
T 6	5 17		5 12		0 12				2 42				2 11	-		8 26 1		23 34 2 4			24 15		4 9
F 7	5 40	-	-	10 23				10 31	2 39			11 45	2 11	-	0 15	8 27 1		23 34 2 4	_		24 17		4 9
S 8	6 3	20 43	4 11	11 4	0 26	11 1	0 18	10 28	2 36	15 8	1 15	11 47	2 11	19 11	0 15	8 27 1	1 2	23 34 2 4	3 2 23	2 5	24 19	16 53	4 10
S 9	6 26	15 43	3 20	11 44	0 33	10 40	0 22	10 25	2 33	15 8	1 14	11 49	2 10	19 11	0 15	8 28 1	1 2	23 34 2 4	3 2 23	2 4	24 21	16 52	4 10
M10	6 49	10 6	2 21	12 23	0 40	10 19	0 26	10 22	2 30	15 9	1 14	11 52	2 10	19 10	0 15	8 28 1	1 2	23 34 2 4	3 2 24	2 2	24 23	16 51	4 10
T 11	7 12	4 11	1 15	13 1	0 46	9 58	0 30	10 19	2 27	15 9	1 14	11 54	2 10	19 10	0 15	8 28 1	1 2	23 34 2 4	3 2 24	2 1	24 25	16 51	4 11
W12	7 34	1 s49	0 7	13 39	0 53	9 36	0 34	10 15	2 24	15 10	1 14	11 56	2 10	19 9	0 15	8 29 1	1 2	23 34 2 4	3 2 24	2 0	24 27	16 50	4 11
T 13	7 57	7 39	1 s 1	14 16	1 0	9 14	0 37	10 12	2 21	15 10	1 14	11 59	2 10	19 9	0 15	8 29 1	1 2	23 34 2 4	3 2 24	1 59	24 28	16 49	4 11
F 14	8 19	13 9	2 5	14 52	1 7	8 52	0 41	10 8	2 18	15 10	1 14	12 1	2 10	19 8	0 15	8 30 1	1 2	23 35 2 4	3 2 24	1 57	24 30	16 48	4 12
S 15	8 42	18 6	3 2	15 28	1 13	8 29	0 45	10 4	2 14	15 10	1 14	12 3	2 10	19 8	0 15	8 30 1	1 2	23 35 2 4	4 2 23	1 56	24 32	16 48	4 12
S 16	9 4	22 18	3 51	16 2	1 20	8 6	0 48	10 1	2 11	15 10	1 13	12 5	2 10	19 7	0 15	8 31 1	1 2	23 35 2 4	4 2 22	1 55	24 34	16 47	4 12
M17	9 26	25 35	4 30	16 36	1 26	7 42	0 52	9 57	2 7	15 10	1 13	12 8	2 10	19 7	0 15	8 31 1	1 2	23 35 2 4	4 2 21	1 53	24 36	16 46	4 13
T 18	9 48	27 45	4 58	17 9	1 33	7 19	0 55	9 53	2 4	15 10	1 13	12 10	2 10	19 7	0 15	8 31 1	1 2	23 35 2 4	4 2 19	1 52	24 38	16 46	4 13
W19	10 10	28 41	5 12	17 41	1 39	6 55	0 59	9 49	2 0	15 10	1 13	12 12	2 10	19 6	0 15	8 32 1	1 2	23 35 2 4	4 2 18	1 51	24 40	16 45	4 13
T 20	10 31	28 16	5 14	18 12	1 45	6 31	1 2	9 46	1 57	15 9	1 13	12 15	2 10	19 6	0 15	8 32 1	1 2	23 35 2 4	4 2 17	1 50	24 42	16 44	4 13
F 21	10 53	26 30	5 1	18 43	1 51	6 6	1 5	9 42	1 53	15 9	1 13	12 17	2 10	19 5	0 15	8 33 1	1 2	23 35 2 4	4 2 17	1 48	24 44	16 43	4 14
S 22	11 14	23 26	4 34	19 12	1 56	5 42	1 8	9 38	1 49	15 9	1 12	12 19	2 10	19 5	0 15	8 33 1	1 2	23 35 2 4	5 2 17	1 47	24 45	16 42	4 14
S 23	11 35	19 11	3 53	19 40	2 2	5 17	1 11	9 34	1 46	15 8	1 12	12 22	2 9	19 4	0 15	8 33 1	1 2	23 35 2 4	5 2 17	1 46	24 47	16 42	4 14
M24	11 56	13 54	2 59	20 8	2 7	4 52	1 14	9 31	1 42	15 8	1 12	12 24	2 9	19 4	0 15	8 34 1	1 2	23 35 2 4	5 2 18	1 45	24 49	16 41	4 15
T 25	12 17	7 48	1 54	20 34	2 12	4 26	1 16	9 27	1 38	15	1 12	12 26	2 9	19 3	0 15	8 34 1	1 2	23 36 2 4	5 2 19	1 43	24 51	16 40	4 15
W26	12 38	1 8	0 39	20 59	2 17	4 1	1 19	9 24	1 34	15	1 12	12 29	2 9	19 2	0 15	8 34 1	1 2	23 36 2 4	5 2 19	1 42	24 53	16 39	4 15
T 27	12 58	5n48	0n40		2 21	3 35	1 22	9 21	1 30	15 6	1 12	12 31	2 9	19 2	0 15	8 34 1	1 2	23 36 2 4	5 2 19	1 41	24 55	16 38	4 15
F 28	13 18	12 37	1 58	21 46	2 25	3 9	1 24	9 17	1 27	15 5	1 12	12 33	2 9	19 1	0 15	8 35 1	1 2	23 36 2 4	5 2 18		24 57		4 16
S 29	13 38	18 48	3 10	22 8	2 29	2 43	1 27	9 14	1 23	15 4	1 11	12 36	2 9	19 1	0 15	8 35 1	1 2	23 36 2 4	6 2 17	1 38	24 58	16 37	4 16
S 30	13 58	23 50	4 8	22 28	2 32	2 16	1 29	9 11	1 19	15 3	1 11	12 38	2 9	19 0	0 15	8 35 1	1 2	23 36 2 4	6 2 16	1 37	25 0	16 36	4 16
M31	14s17	27n13	4n49	22 s47	2 s 3 5	1n50	1n31	9n 8	1 s 1 5	15 s 2	1 s11	12 s40	2n 9	19n 0	0s15	8 s 3 6	s 1 2	23n36 2n4	6 2n14	1n36	25 s 2	16n35	4s16

Julian Day Number = 2338228.5, Delta T = 18.53 sec Ecliptic obliquity = 23°28'56, Nutation = -0°00'02, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°24'34, Lahiri = 19°31'35Greg. Calendar

NOVEMBER 1689 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(并	Р	u	ດ	Ç	ę,	Day
T 1	2 43 38	9 M 16'34	28 I I13	1 ₹ 34	0 º 5	26°R24	22≈54	9 M .43	25°R43	10°R28	26°R29	5°R32	3 Υ57	2 ₹ 45	2°R53	T 1
W 2	2 47 35	10°16'47	129545	2°45	1°16	26 Y 8	22°57	9°50	25841	10 ∺ 27	269529	5 Ƴ 28	3°54	2°52	2 Ⅱ 50	W 2
T 3	2 51 31	11°17'02	26°53	3°54	2°28	25°52	23° 0	9°58	25°39	10°27	26°28	5°25	3°51	2°58	2°47	T 3
F 4	2 55 28	12°17'19	10 Ω 35	5° 0	3°40	25°36	23° 4	10° 5	25°36	10°26	26°28	5°D24	3°48	3° 5	2°43	F 4
S 5	2 59 24	13°17'38	23°53	6° 4	4°52	25°22	23° 7	10°12	25°34	10°26	26°28	5°25	3°45	3°12	2°40	S 5
S 6	3 3 21	14°17'59	6 m 48	7° 5	6° 4	25° 8	23°11	10°19	25°31	10°25	26°28	5°26	3°42	3°18	2°37	S 6
M 7	3 7 18	15°18'22	19°26	8° 3	7°16	24°54	23°15	10°26	25°29	10°25	26°28	5°28	3°38	3°25	2°34	M 7
T 8	3 11 14	16°18'47	1 ≏ 48	8°57	8°28	24°41	23°19	10°34	25°26	10°24	26°27	5°R29	3°35	3°32	2°30	T 8
W 9	3 15 11	17°19'14	14° 0	9°47	9°41	24°29	23°23	10°41	25°24	10°24	26°27	5°28	3°32	3°38	2°27	W 9
T 10	3 19 7	18°19'42	26° 3	10°32	10°53	24°18	23°27	10°48	25°21	10°23	26°27	5°26	3°29	3°45	2°24	T 10
F 11	3 23 4	19°20'12	8 M 0	11°12	12° 6	24° 8	23°32	10°55	25°19	10°23	26°26	5°21	3°26	3°52	2°20	F 11
S 12	3 27 0	20°20'44	19°53	11°46	13°18	23°58	23°37	11° 2	25°16	10°23	26°26	5°15	3°23	3°59	2°17	S 12
S 13	3 30 57	21°21'18	1 √ 45	12°13	14°31	23°49	23°42	11° 9	25°14	10°23	26°25	5° 6	3°19	4° 5	2°14	S 13
M14	3 34 53	22°21'53	13°35	12°33	15°44	23°41	23°47	11°16	25°11	10°22	26°25	4°57	3°16	4°12	2°10	M14
T 15	3 38 50	23°22'29	25°27	12°45	16°56	23°34	23°52	11°24	25° 9	10°22	26°24	4°47	3°13	4°19	2° 7	T 15
W16	3 42 47	24°23'07	7 云 22	12°R48	18° 9	23°28	23°58	11°31	25° 6	10°22	26°24	4°38	3°10	4°25	2° 3	W16
T 17	3 46 43	25°23'46	19°23	12°42	19°22	23°22	24° 3	11°38	25° 4	10°22	26°23	4°30	3° 7	4°32	2° 0	T 17
F 18	3 50 40	26°24'26	1≈32	12°25	20°35	23°17	24° 9	11°45	25° 1	10°22	26°23	4°25	3° 3	4°39	1°56	F 18
S 19	3 54 36	27°25'08	13°54	11°58	21°49	23°14	24°15	11°52	24°59	10°21	26°22	4°22	3° 0	4°46	1°53	S 19
S 20	3 58 33	28°25'50	26°32	11°20	23° 2	23°10	24°22	11°59	24°56	10°21	26°22	4°D20	2°57	4°52	1°49	S 20
M21	4 2 29	29°26'34	9 ∺ 31	10°31	24°15	23° 8	24°28	12° 6	24°54	10°D21	26°21	4°21	2°54	4°59	1°46	M21
T 22	4 6 26	0 ∡ 127'18	22°55	9°32	25°28	23° 7	24°35	12°13	24°51	10°21	26°21	4°22	2°51	5° 6	1°42	T 22
W23	4 10 22	1°28'04	6 Υ 46	8°24	26°42	23°D 6	24°41	12°20	24°49	10°21	26°20	4°R22	2°48	5°12	1°39	W23
T 24	4 14 19	2°28'50	21° 6	7° 9	27°55	23° 6	24°48	12°27	24°46	10°22	26°19	4°21	2°44	5°19	1°35	T 24
F 25	4 18 16	3°29'38	5 8 53	5°49	29° 9	23° 7	24°55	12°34	24°44	10°22	26°18	4°17	2°41	5°26	1°32	F 25
S 26	4 22 12	4°30'27	21° 1	4°27	0 M 22	23° 9	25° 2	12°40	24°41	10°22	26°18	4°11	2°38	5°33	1°28	S 26
S 27	4 26 9	5°31'16	6 II 20	3° 5	1°36	23°12	25°10	12°47	24°39	10°22	26°17	4° 3	2°35	5°39	1°25	S 27
M28	4 30 5	6°32'07	21°41	1°45	2°49	23°15	25°17	12°54	24°36	10°22	26°16	3°53	2°32	5°46	1°21	M28
T 29	4 34 2	7°33'00	6951	0°32	4° 3	23°19	25°25	13° 1	24°34	10°23	26°15	3°43	2°29	5°53	1°18	T 29
W30	4 37 58	8 ₮ 33'53	219541	29M26	5 M 17	23 Y 24	25≈33	13M 8	24 8 31	10 ∺ 23	269515	3 Y 35	2 Υ 25	5 ₹ 59	1 Ⅱ 14	W30

Day	0	D	ğ	·	♂	4	ħ)Å(卉	Р	រា	Ω	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl	decl	decl lat
T 1	14 s37	28n37 5n 9	23 s 5 2 s 38	3 1n23 1n33	9n 6 1s11	15s 1 1s11	12 s43 2n 9	18n59 0s15	8s36 1s 1	23n37 2n46	2n12	1n35 2	5s 4	16n34 4s17
W 2	14 56	28 0 5 9	23 22 2 40	0 57 1 35	9 3 1 8	15 0 1 11	12 45 2 9	18 59 0 15	8 36 1 1	23 37 2 46	2 10	1 33 2	5 6	16 34 4 17
T 3	15 15	25 34 4 50	23 37 2 42	0 30 1 37	9 1 1 4	14 59 1 11	12 47 2 9	18 58 0 15	8 36 1 1	23 37 2 46	2 9	1 32 2	5 7 1	16 33 4 17
F 4	15 33	21 42 4 15	5 23 51 2 43	0 3 1 39	8 59 1 0	14 58 1 10	12 49 2 9	18 58 0 15	8 36 1 1	23 37 2 46	2 9	1 31 2	5 9 1	16 32 4 17
S 5	15 51	16 50 3 27	7 <mark>24 3</mark> 2 44	1 0s24 1 41	8 57 0 57	14 56 1 10	12 52 2 9	18 57 0 15	8 37 1 1	23 37 2 47	2 9	1 30 2	5 11 1	16 31 4 18
S 6	16 9	11 21 2 30	24 13 2 43	0 51 1 42			12 54 2 9	18 56 0 15	8 37 1 1	23 37 2 47	2 10	1 28 2	5 13	16 30 4 18
M 7	16 27	5 31 1 20	5 24 22 2 43	3 1 18 1 44	8 54 0 49	14 54 1 10	12 56 2 9	18 56 0 15	8 37 1 1	23 38 2 47	2 10	1 27 2	5 14	16 30 4 18
T 8	16 45	0 s 2 5 0 2 0	24 29 2 41	1 45 1 45	8 52 0 46	14 52 1 10	12 58 2 9	18 55 0 15	8 37 1 1	23 38 2 47	2 11	1 26 2	5 16	16 29 4 18
W 9	17 2	6 14 0 s46	5 24 34 2 39	2 13 1 46	8 51 0 42	14 51 1 10	13 1 2 9	18 55 0 15	8 37 1 1	23 38 2 47	2 11	1 24 2	5 18	16 28 4 18
T 10	17 19	11 46 1 49	24 38 2 35	5 2 40 1 48	8 50 0 39	14 49 1 9	13 3 2 9	18 54 0 15	8 37 1 1	23 38 2 47	2 10	1 23 2	5 20 1	16 27 4 19
F 11	17 36	16 50 2 47	7 24 39 2 31	3 7 1 49	8 50 0 35	14 47 1 9	13 5 2 9	18 53 0 15	8 37 1 1	23 38 2 47	2 8	1 22 2	5 21	16 26 4 19
S 12	17 52	21 13 3 36	24 38 2 25	3 35 1 50	8 49 0 32	14 46 1 9	13 7 2 9	18 53 0 15	8 38 1 1	23 39 2 47	2 5	1 21 2	5 23 1	16 25 4 19
S 13	18 8	24 44 4 17	24 36 2 19	9 4 2 1 51	8 49 0 29	14 44 1 9	13 9 2 9	18 52 0 15	8 38 1 1	23 39 2 48	2 2	1 19 2	5 25	16 25 4 19
M14	18 24	27 12 4 40	5 24 30 2 11	4 29 1 52	8 49 0 25	14 42 1 9	13 12 2 9	18 52 0 15	8 38 1 1	23 39 2 48	1 58	1 18 2	5 27	16 24 4 19
T 15	18 39	28 26 5 2	2 24 23 2 2	2 4 56 1 52	8 50 0 22	14 40 1 9	13 14 2 9	18 51 0 15	8 38 1 1	23 39 2 48	1 54	1 17 2	5 28	16 23 4 19
W16	18 54	28 22 5	5 24 12 1 51	5 24 1 53	8 50 0 19	14 38 1 9	13 16 2 9	18 50 0 15	8 38 1 1	23 40 2 48	1 51	1 16 2	5 30	16 22 4 20
T 17	19 9	26 58 4 50	23 59 1 39	5 51 1 54	8 51 0 16	14 36 1 8	13 18 2 9	18 50 0 14	8 38 1 1	23 40 2 48	1 48	1 14 2	5 32	16 21 4 20
F 18	19 23	24 17 4 33	3 23 44 1 25	6 18 1 54	8 52 0 13	14 34 1 8	13 20 2 9	18 49 0 14	8 38 1 1	23 40 2 48	1 45	1 13 2	5 33	16 20 4 20
S 19	19 37	20 28 3 57	23 25 1 10	6 45 1 54	8 54 0 10	14 32 1 8	13 22 2 9	18 49 0 14	8 38 1 1	23 40 2 48	1 44	1 12 2	5 35 1	16 20 4 20
S 20	19 51	15 39 3 8	3 23 3 0 53	7 12 1 55	8 55 0 7	14 30 1 8	13 24 2 9	18 48 0 14	8 38 1 1	23 40 2 49	1 44	1 11 2	5 37	16 19 4 20
M21	20 4	10 0 2 9	22 38 0 35	7 38 1 55	8 57 0 4	14 27 1 8	13 26 2 9	18 47 0 14	8 38 1 1	23 41 2 49	1 44	1 9 2	5 38	16 18 4 20
T 22	20 17	3 45 1	22 10 0 15	8 5 1 55	8 59 0 1	14 25 1 8	13 29 2 9	18 47 0 14	8 38 1 1	23 41 2 49	1 44	1 8 2	5 40	16 17 4 20
W23	20 29	2n53 0n13	3 21 40 On 5	8 31 1 55	9 1 0n 2	14 23 1 7	13 31 2 9	18 46 0 14	8 38 1 0	23 41 2 49	1 44	1 7 2	5 42	16 16 4 21
T 24	20 42	9 37 1 28	3 21 8 0 25	8 58 1 55	9 4 0 5	14 20 1 7	13 33 2 9	18 46 0 14	8 38 1 0	23 41 2 49	1 44	1 5 2	5 43	16 16 4 21
F 25	20 53	16 1 2 40	20 34 0 46	9 24 1 55	9 7 0 7	14 18 1 7	13 35 2 9	18 45 0 14	8 38 1 0	23 42 2 49	1 42	1 4 2	5 45	16 15 4 21
S 26	21 5	21 36 3 42	2 20 0 1 5	9 50 1 55	9 10 0 10	14 15 1 7	13 37 2 10	18 45 0 14	8 38 1 0	23 42 2 49	1 40	1 3 2	5 46	16 14 4 21
S 27	21 16	25 49 4 29	19 26 1 24	1 10 16 1 54	9 13 0 12	14 12 1 7	13 39 2 10	18 44 0 14	8 37 1 0	23 42 2 49	1 37	1 2 2	5 48	16 13 4 21
M28	21 26	28 9 4 50	5 18 53 1 42	2 10 41 1 54	9 17 0 15	14 10 1 7	13 41 2 10	18 43 0 14	8 37 1 0	23 43 2 50	1 33	1 0 2	5 50	16 12 4 21
T 29	21 37	28 21 5 3	8 18 23 1 57	7 11 7 1 53	9 21 0 17	14 7 1 7	13 43 2 10	18 43 0 14	8 37 1 0	23 43 2 50	1 29	0 59 2	5 51	16 12 4 21
W30	21 s46	26n29 4n48	3 17 s 56 2n1	1 11 s32 1n53	9n25 0n20	14s 4 1s 6	13 s45 2n10	18n42 0s14	8 s 37 1 s 0	23n43 2n50	1n25	0n58 2	25 s53	16n11 4s21

Julian Day Number = 2338259.5, Delta T = 18.49 sec Ecliptic obliquity = 23°28'56, Nutation = -0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°24'38, Lahiri = 19°31'39Greg. Calendar

DECEMBER 1689 GC 00:00 UT

DECE	HIDEN 3	LUUJ UC													00.0	0.
Day	Sid.t	0	D	ğ	Ş	♂	4	ħ)∤(并	В	n	ß	Ç	ķ	Day
T 1	4 41 55	9 ,7 34'48	6 N 3	28°R30	6 M 31	23Υ29	25≈41	13 M .14	24°R29	10 米 23	26°R14	3°R28	2Υ22	6 ₹ 6	1°R11	T 1
F 2	4 45 51	10°35'44	19°55	27 M 44	7°45	23°36	25°49	13°21	24827	10°24	269513	3 Υ 24	2°19	6°13	1 I 8	F 2
S 3	4 49 48	11°36'41	3 m 18	27°10	8°59	23°43	25°57	13°28	24°24	10°24	26°12	3°22	2°16	6°19	1° 4	S 3
S 4	4 53 45	12°37'39	16°14	26°47	10°13	23°50	26° 5	13°34	24°22	10°24	26°11	3°D22	2°13	6°26	1° 1	S 4
M 5	4 57 41	13°38'39	28°47	26°36	11°27	23°58	26°14	13°41	24°20	10°25	26°10	3°R22	2° 9	6°33	0°57	M 5
T 6	5 1 38	14°39'40	11 º 4	26°D34	12°41	24° 7	26°23	13°47	24°17	10°25	26° 9	3°22	2° 6	6°40	0°54	T 6
W 7	5 5 34	15°40'41	23° 7	26°43	13°55	24°17	26°32	13°54	24°15	10°26	26° 8	3°20	2° 3	6°46	0°51	W 7
T 8	5 9 3 1	16°41'44	5M 3	27° 1	15° 9	24°27	26°40	14° 0	24°13	10°26	26° 7	3°15	2° 0	6°53	0°47	T 8
F 9	5 13 27	17°42'48	16°54	27°28	16°23	24°38	26°50	14° 7	24°10	10°27	26° 6	3° 8	1°57	7° 0	0°44	F 9
S 10	5 17 24	18°43'53	28°44	28° 2	17°37	24°50	26°59	14°13	24° 8	10°28	26° 5	2°58	1°54	7° 6	0°41	S 10
S 11	5 21 20	19°44'58	10 × 35	28°42	18°52	25° 2	27° 8	14°19	24° 6	10°28	26° 4	2°45	1°50	7°13	0°37	S 11
M12	5 25 17	20°46'05	22°28	29°29	20° 6	25°15	27°18	14°26	24° 4	10°29	26° 3	2°30	1°47	7°20	0°34	M12
T 13	5 29 14	21°47'11	4 云 25	0 ₮ 20	21°20	25°28	27°27	14°32	24° 2	10°30	26° 2	2°15	1°44	7°27	0°31	T 13
W14	5 33 10	22°48'19	16°27	1°17	22°35	25°42	27°37	14°38	23°59	10°31	26° 1	2° 1	1°41	7°33	0°28	W14
T 15	5 37 7	23°49'27	28°35	2°17	23°49	25°57	27°47	14°44	23°57	10°31	26° 0	1°49	1°38	7°40	0°24	T 15
F 16	5 41 3	24°50'35	10≈51	3°21	25° 3	26°12	27°57	14°50	23°55	10°32	25°59	1°39	1°35	7°47	0°21	F 16
S 17	5 45 0	25°51'43	23°17	4°28	26°18	26°27	28° 7	14°56	23°53	10°33	25°58	1°33	1°31	7°53	0°18	S 17
S 18	5 48 56	26°52'52	5 ₩ 57	5°38	27°32	26°43	28°17	15° 2	23°51	10°34	25°57	1°30	1°28	8° 0	0°15	S 18
M19	5 52 53	27°54'01	18°52	6°50	28°47	27° 0	28°28	15° 8	23°49	10°35	25°56	1°28	1°25	8° 7	0°12	M19
T 20	5 56 50	28°55'09	2 Υ 8	8° 5	0 √ 1	27°17	28°38	15°14	23°47	10°36	25°55	1°28	1°22	8°14	0° 9	T 20
W21	6 0 46	29°56'18	15°47	9°21	1°16	27°35	28°49	15°20	23°45	10°37	25°53	1°28	1°19	8°20	0° 6	W21
T 22	6 4 43	0る57'27	29°52	10°39	2°30	27°53	29° 0	15°26	23°44	10°38	25°52	1°26	1°15	8°27	0° 4	T 22
F 23	6 8 3 9	1°58'36	14822	11°58	3°45	28°12	29°10	15°31	23°42	10°39	25°51	1°22	1°12	8°34	0° 1	F 23
S 24	6 12 36	2°59'45	29°14	13°19	5° 0	28°31	29°21	15°37	23°40	10°40	25°50	1°15	1° 9	8°40	29 8 58	S 24
S 25	6 16 32	4° 0'54	14Ⅲ23	14°41	6°14	28°50	29°32	15°43	23°38	10°41	25°49	1° 5	1° 6	8°47	29°55	S 25
M26	6 20 29	5° 2'03	29°38	16° 4	7°29	29°10	29°44	15°48	23°37	10°42	25°47	0°53	1° 3	8°54	29°52	M26
T 27	6 24 25	6° 3'12	149548	17°28	8°44	29°30	29°55	15°54	23°35	10°44	25°46	0°41	1° 0	9° 1	29°50	T 27
W28	6 28 22	7° 4'21	29°43	18°52	9°58	29°51	0 ∀ 6	15°59	23°33	10°45	25°45	0°30	0°56	9° 7	29°47	W28
T 29	6 32 19	8° 5'30	14 \O 13	20°18	11°13	0812	0°18	16° 4	23°32	10°46	25°44	0°22	0°53	9°14	29°45	T 29
F 30	6 36 15	<u>9°</u> 6'39	28°15	21°44	12°28	0°33	0°29	16°10	23°30	10°47	25°42	0°16	0°50	9°21	29°42	F 30
S 31	6 40 12	10궁 7'49	11 M)47	23 × 11	13 × 742	0 8 55	0) 41	16 M .15	23 8 29	10 ∺ 49	259541	0 Υ 13	0 Υ 47	9 ∡ 127	29 8 40	S 31

Day	0	D	ğ	Q	ď	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 decl	decl lat
T 1 F 2 S 3	21 s56 22 5 22 13	18 11 3 29	17 14 2 3	2 11 s57 1n52 1 12 22 1 51 8 12 46 1 50	9 33 0 24	13 59 1 6	13 49 2 10	18n42 0s14 18 41 0 14 18 40 0 14			1 21	0n57 25 s55 0 55 25 56 0 54 25 58	16 9 4 21
S 4 M 5 T 6 W 7	22 21 22 29 22 36 22 43	6 49 1 30 0 51 0 24 5s 0 0s41	16 50 2 4 16 45 2 4	3 13 10 1 50 6 13 34 1 49 7 13 58 1 48	9 43 0 29 9 48 0 31 9 53 0 33	13 53 1 6 13 50 1 6	13 52 2 10 13 54 2 10 13 56 2 10	18 40 0 14 18 39 0 14	8 36 1 0	23 44 2 50 23 45 2 50 23 45 2 51	1 20 1 20 1 20	0 53 25 59 0 52 26 2 0 50 26 2 0 49 26 4	16 8 4 21 16 7 4 21 16 7 4 21
T 8 F 9 S 10 S 11	23 0	20 15 3 29 23 57 4 9	17 12 2 3	2 15 6 1 44 8 15 29 1 43	10 9 0 38 10 15 0 40		14 2 2 10 14 3 2 11	18 38 0 14 18 37 0 14 18 37 0 14 18 36 0 14	8 36 1 0 8 35 1 0 8 35 1 0 8 35 1 0	23 46 2 51 23 46 2 51	1 15 1 11	0 48 26 3 0 47 26 3 0 45 26 8 0 44 26 10	16 5 4 21 16 4 4 21
M12 T 13	23 10 23 14 23 17 23 20 23 23	28 11 4 55 28 24 4 59 27 16 4 50 24 51 4 28 21 17 3 53	17 40 2 2 17 57 2 2 18 15 2 1 18 34 2 18 53 2	8 16 12 1 40 2 16 33 1 38 5 16 53 1 37 8 17 14 1 35	10 28 0 44 10 34 0 45 10 41 0 47 10 48 0 49 10 55 0 50	13 27 1 5 13 23 1 5 13 20 1 5 13 16 1 5 13 13 1 4	14 7 2 11 14 9 2 11 14 10 2 11 14 12 2 11 14 14 2 11	18 36 0 14 18 35 0 14 18 35 0 14 18 34 0 14	8 34 1 0 8 34 1 0 8 34 1 0 8 34 1 0 8 33 1 0	23 47 2 51 23 47 2 51 23 47 2 51 23 48 2 52 23 48 2 52	1 0 0 54 0 48 0 43 0 40	0 43 26 12 0 43 26 12 0 41 26 13 0 40 26 13 0 39 26 10 0 38 26 13	16 3 4 21 16 2 4 21 16 1 4 21 16 1 4 21 16 0 4 21
S 18 M19 T 20 W21 T 22 F 23 S 24	23 28 23 29 23 29 23 29 23 28	5 25 1 6 0n54 0n 3 7 22 1 15 13 41 2 24 19 27 3 25	20 13 1 30 20 33 1 2 20 52 1 1 21 11 1	8 18 30 1 28 0 18 48 1 26 2 19 5 1 24 3 19 22 1 22 5 19 38 1 20	11 16 0 55 11 24 0 56 11 31 0 57 11 39 0 59 11 47 1 0	13 2 1 4 12 58 1 4 12 54 1 4 12 50 1 4 12 47 1 4	14 19 2 12 14 20 2 12 14 22 2 12 14 23 2 12 14 25 2 12	18 33 0 14 18 32 0 14 18 32 0 14 18 31 0 14 18 31 0 14 18 30 0 14 18 30 0 14	8 32 1 0 8 32 1 0 8 31 1 0 8 31 1 0 8 30 1 0	23 49 2 52 23 49 2 52 23 50 2 52 23 50 2 52	0 35 0 35 0 35 0 34 0 33	0 35 26 20 0 34 26 22 0 33 26 23 0 31 26 25 0 30 26 20 0 29 26 28 0 28 26 29	15 58 4 21 15 58 4 21 15 57 4 21 15 57 4 21 15 56 4 21
S 25 M26 T 27 W28 T 29 F 30	23 25 23 23 23 21 23 18 23 14	27 19 4 47 28 29 5 0 27 29 4 51 24 31 4 22 20 3 3 37 14 36 2 40	21 47 0 4 22 4 0 4 22 20 0 3 22 36 0 2 22 50 0 1 23 4 0 19	9 20 9 1 15 1 20 24 1 13 3 20 38 1 11 5 20 51 1 9 7 21 4 1 6 0 21 16 1 4	12 3 1 2 12 11 1 4 12 19 1 5 12 28 1 6 12 36 1 7 12 45 1 8	12 39 1 3 12 35 1 3 12 31 1 3 12 26 1 3 12 22 1 3 12 18 1 3	14 28 2 12 14 29 2 12 14 31 2 13 14 32 2 13 14 33 2 13 14 35 2 13	18 29 0 14 18 29 0 14 18 29 0 14 18 28 0 14 18 28 0 14 18 27 0 14 18n27 0s14	8 30 1 0 8 29 1 0 8 29 1 0 8 28 1 0 8 28 1 0 8 27 1 0	23 51 2 53 23 51 2 53 23 51 2 53	0 26 0 21 0 16 0 12 0 9 0 6	0 26 26 36 0 25 26 32 0 24 26 33 0 22 26 36 0 21 26 36 0 20 26 37 0 21 26 38	15 55 4 21 15 55 4 21 15 54 4 21 15 54 4 21 15 53 4 20 15 53 4 20

Julian Day Number = 2338289.5, Delta T = 18.46 sec Ecliptic obliquity = $23^{\circ}28'55$, Nutation = $-0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}24'43$, Lahiri = $19^{\circ}31'43$ Greg. Calendar