

Astrodienst Ephemeris Tables for the year 1699

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 1699 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)મ(,	Р	n	Ω	Ç	ķ	Day
T 1	6 43 26	10 る 57'58	6 පි 27	22 궁 46	17≈37	17≈27	15 × 13	18 ≈ 2	4°R 1	0Υ36	9°R 8	6°R29	6₽40	15 ×7 46	13°R19	T 1
F 2	6 47 22	11°59'10	18°29	24°23	17°56	18°14	15°25	18° 8	3 9 58	0°37	9Ω7	6 R29 6 Ω 14	6°37	15°52	13 K19	F 2
S 3	6 51 19	13° 0'21	0≈37	26° 1	18°14	19° 1	15°38	18°15	3°56	0°38	9° 6	6° 0	6°34	15°59	13°18	S 3
				-												
S 4	6 55 15	14° 1'32	12°52	27°38	18°29	19°48	15°51	18°21	3°53	0°38	9° 4	5°48	6°31	16° 6	13°17	S 4
M 5	6 59 12	15° 2'43	25°16	29°14	18°42	20°35	16° 4	18°27	3°51	0°39	9° 3	5°40	6°27	16°12	13°16	M 5
T 6	7 3 9	16° 3'53	7 ₩50	0≈50	18°53	21°22	16°16	18°34	3°48	0°40	9° 2	5°34	6°24	16°19	13°15	T 6
W 7	7 7 5	17° 5'03	20°36	2°25	19° 1	22°10	16°29	18°40	3°46	0°41	9° 1	5°31	6°21	16°26	13°14	W 7
T 8	7 11 2	18° 6'12	3 Υ38	3°58	19° 7	22°57	16°42	18°47	3°43	0°42	8°59	5°D30	6°18	16°33	13°12	T 8
F 9	7 14 58	19° 7'20	16°58	5°30	19°11	23°44	16°54	18°54	3°41	0°43	8°58	5°R30	6°15	16°39	13°11	F 9
S 10	7 18 55	20° 8'28	0840	7° 0	19°R13	24°31	17° 6	19° 0	3°38	0°44	8°57	5°30	6°12	16°46	13°10	S 10
S 11	7 22 51	21° 9'35	14°45	8°28	19°11	25°18	17°19	19° 7	3°36	0°45	8°55	5°28	6° 8	16°53	13° 8	S 11
M12	7 26 48	22°10'41	29°12	9°52	19°8	26° 5	17°31	19°13	3°33	0°46	8°54	5°24	6° 5	16°59	13° 6	M12
T 13	7 30 44	23°11'46	13 Ⅱ 59	11°14	19° 2	26°52	17°43	19°20	3°31	0°47	8°53	5°16	6° 2	17° 6	13° 4	T 13
W14	7 34 41	24°12'51	29° 1	12°32	18°53	27°39	17°56	19°27	3°29	0°48	8°51	5° 7	5°59	17°13	13° 2	W14
T 15	7 38 38	25°13'54	1495 7	13°45	18°42	28°26	18° 8	19°34	3°26	0°49	8°50	4°56	5°56	17°20	13° 0	T 15
F 16	7 42 34	26°14'58	29° 8	14°52	18°28	29°13	18°20	19°41	3°24	0°51	8°49	4°45	5°52	17°26	12°58	F 16
S 17	7 46 31	27°16'00	13 £ 54	15°54	18°12	0 ∺ 0	18°32	19°47	3°22	0°52	8°47	4°36	5°49	17°33	12°56	S 17
S 18	7 50 27	28°17'02	28°17	16°49	17°53	0°47	18°44	19°54	3°19	0°53	8°46	4°29	5°46	17°40	12°53	S 18
M19	7 54 24	29°18'03	12 m 13	17°36	17°32	1°34	18°56	20° 1	3°17	0°54	8°44	4°24	5°43	17°46	12°51	M19
T 20	7 58 20	0≈19'03	25°39	18°14	17° 9	2°21	19°8	20° 8	3°15	0°56	8°43	4°22	5°40	17°53	12°48	T 20
W21	8 2 17	1°20'03	8 ॒ 39	18°43	16°43	3° 8	19°19	20°15	3°13	0°57	8°42	4°D22	5°37	18° 0	12°46	W21
T 22	8 6 13	2°21'02	21°15	19° 1	16°16	3°55	19°31	20°22	3°10	0°58	8°40	4°22	5°33	18° 7	12°43	T 22
F 23	8 10 10	3°22'01	3 M .31	19°R 9	15°46	4°42	19°43	20°29	3°8	1° 0	8°39	4°R23	5°30	18°13	12°40	F 23
S 24	8 14 7	4°22'59	15°34	19° 5	15°15	5°29	19°54	20°36	3° 6	1° 1	8°38	4°22	5°27	18°20	12°37	S 24
S 25	8 18 3	5°23'56	27°28	18°51	14°42	6°16	20° 6	20°43	3° 4	1° 3	8°36	4°19	5°24	18°27	12°34	S 25
M26	8 22 0	6°24'53	9 × 718	18°25	14° 9	7° 3	20°17	20°50	3° 2	1° 4	8°35	4°14	5°21	18°33	12°31	M26
T 27	8 25 56	7°25'49	21° 8	17°48	13°33	7°49	20°28	20°57	3° 0	1° 5	8°33	4° 6	5°18	18°40	12°27	T 27
W28	8 29 53	8°26'43	3 ਰ 3	17° 1	12°57	8°36	20°39	21° 4	2°58	1° 7	8°32	3°57	5°14	18°47	12°24	W28
T 29	8 33 49	9°27'37	15° 5	16° 6	12°21	9°23	20°50	21°12	2°56	1° 9	8°30	3°46	5°11	18°54	12°21	T 29
F 30	8 37 46	10°28'30	27°15	15° 3	11°44	10°10	21° 2	21°19	2°54	1°10	8°29	3°35	5° 8	19° 0	12°17	F 30
S 31	8 41 43	11≈29'22	9≈35	13≈56	11≈ 7	10 ∺ 57	21 × 12	21≈26	2952	1 Y 12	$8\Omega 28$	3 ჲ 25	5 º 5	19 ৴ 7	12 m 14	S 31

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T 1 F 2 S 3		17 22 4	159 23 s38 53 23 19 33 22 59	2 5 1	4 18 1 14	16 28 1	8 22 s 9 8 22 10 7 22 12	0 31	16 32 1	11	23 43 0	0n18 0 18 0 18	1s 5 1 5 1 5	1 27	24n33 24 33 24 34	6n48 6 48 6 48	2 s35 2 29 2 23	2 38	17 s 5 6 17 5 6 17 5 7	1n18 5 s41 1 18 5 42 1 18 5 42
S 4 M 5 T 6 W 7 T 8 F 9	22 44 22 38 22 30 22 23 22 15 22 7	10 3 3 6 28 2 2 32 1 1n36 0 5 45 1s	0 22 37 15 22 13 21 21 49 18 21 22 10 20 55 5 0 20 26	1 55 1. 1 51 1. 1 46 1. 1 40 1. 1 34 1.	3 28 1 52 3 12 2 5 2 57 2 19 2 41 2 33 2 27 2 47	15 42 1 15 26 1 15 10 1 14 54 1 14 38 1	7 22 13 6 22 14 6 22 16 5 22 17 5 22 18 4 22 20	0 30 0 30 0 30 0 30 0 30	16 26 1 16 24 1 16 22 1 16 20 1 16 18 1	11 11 11 11	23 43 0 23 44 0 23 44 0 23 44 0 23 44 0	0 18	1 4 1 4 1 3 1 3 1 3 1 2	1 26	24 35 24 35 24 36 24 36 24 37	6 49 6 49 6 49 6 49 6 49 6 49	2 19 2 15 2 13 2 12 2 11 2 11	2 34 2 33 2 32 2 30 2 29	17 57 17 57 17 58 17 58 17 58 17 59	1 18 5 43 1 18 5 43 1 18 5 43 1 18 5 44 1 19 5 44 1 19 5 44
S 10 S 11 M12 T 13 W14 T 15 F 16 S 17	21 39 21 29 21 18 21 7 20 56	13 14 3 16 2 4 17 51 4 18 28 5 17 47 4 15 52 4	9 19 56 12 19 26 4 18 54 41 18 22 0 17 50 58 17 18 35 16 45 54 16 14	1 18 1 1 9 1 0 59 1 0 48 1 0 36 1 0 23 1	1 59 3 16 1 46 3 31 1 34 3 45 1 23 4 0 1 12 4 15 1 2 4 30	14 6 1 13 49 1 13 33 1 13 16 1 12 59 1 12 42 1	4 22 21 3 22 22 2 22 23 2 22 25 1 22 26 1 22 27 0 22 28 0 22 29	0 30 0 30 0 30 0 30 0 30 0 30	16 14 1 16 12 1 16 10 1 16 8 1 16 5 1 16 3 1	11 11 11 11 11 11	23 44 0 23 44 0 23 44 0 23 44 0 23 44 0 23 44 0	0 18 0 18 0 18 0 18 0 18 0 18 0 18	1 2 1 1 1 1 1 0 1 0 0 59 0 59 0 59	1 26 1 26 1 26 1 26 1 26 1 26	24 39 24 39	6 49 6 50 6 50 6 50 6 50 6 50 6 50 6 50	2 11 2 11 2 9 2 6 2 2 1 58 1 54 1 50	2 26 2 25	18 0 18 1 18 1 18 1	1 19 5 45 1 19 5 45 1 20 5 45 1 20 5 46 1 21 5 46 1 21 5 46 1 22 5 47 1 22 5 47
S 18 M19 T 20 W21 T 22 F 23 S 24		5 13 1 1 1 0 3 s 5 0r 6 56 1 10 22 2	59 15 44 55 15 14 46 14 47 123 14 22 29 14 0 29 13 41 22 13 25	0 22 10 0 38 10 0 55 10 1 12 10 1 30 10	0 44 5 0 0 36 5 15 0 29 5 29 0 23 5 44 0 18 5 58 0 13 6 11	12 8 0 1 11 51 0 1 11 33 0 1 11 16 0 1 10 58 0 1 10 41 0 1	59 22 30 59 22 31 58 22 32 57 22 33 57 22 34 56 22 35 56 22 36	0 30 0 30 0 30 0 30 0 30 0 30	15 57 1 15 55 1 15 53 1 15 50 1 15 48 1	11 11 11 11	23 44 0 23 45 0 23 45 0 23 45 0 23 45 0	0 18 0 18 0 18 0 18 0 18 0 18 0 18	0 58 0 57 0 57 0 56 0 56 0 55 0 54	1 26 1 26 1 26 1 26 1 26	24 41 24 42 24 42 24 43 24 43 24 44 24 44	6 50 6 51 6 51 6 51 6 51 6 51 6 51	1 47 1 45 1 44 1 44 1 45 1 44	2 18 2 16 2 15 2 14 2 13 2 11 2 10	18 2 18 2 18 2 18 3 18 3 18 3	1 23 5 47 1 24 5 48 1 24 5 48 1 25 5 48 1 26 5 48 1 27 5 49 1 28 5 49
S 25 M26 T 27 W28 T 29 F 30 S 31	18 42 18 26 18 11 17 55 17 38	18 14 4 18 22 5 17 40 4 16 10 4	5 13 13 37 13 4 57 13 0 5 13 0 59 13 4 40 13 11 1 7 13 s21	2 23 10 2 39 10 2 54 10 3 7 10 3 18 10	0 5 6 49 0 4 7 0 0 4 7 10 0 4 7 20 0 6 7 29	9 47 0 : 9 29 0 : 9 11 0 : 8 53 0 : 8 34 0 :	55 22 37 55 22 38 54 22 38 53 22 39 53 22 40 52 22 41 52 22 s42	0 30 0 30 0 30 0 30 0 29	15 41 1 15 39 1 15 37 1 15 35 1 15 32 1	11 11 11 11	23 45 0 23 45 0 23 45 0 23 45 0 23 45 0	0 18 0 18 0 18 0 18 0 18 0 18 0 18	0 54 0 53 0 53 0 52 0 51 0 51 0 s50	1 26 1 26 1 26 1 26 1 26	24 44 24 45 24 45 24 46 24 46 24 47 24n47	6 51 6 51 6 51 6 51 6 51 6 51 6 n52	1 43 1 41 1 38 1 34 1 30 1 26 1 s22	2 8 2 6 2 5 2 4 2 3	18 4 18 4 18 5 18 5 18 5 18 6 18s 6	1 29 5 49 1 30 5 49 1 31 5 50 1 32 5 50 1 33 5 50 1 34 5 50 1 35 5 550

Julian Day Number = 2341607.5, Delta T = 14.64 sec Ecliptic obliquity = 23°28'32, Nutation = $0^{\circ}00'03$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}32'19$, Lahiri = $19^{\circ}39'19$ Greg. Calendar

FEBRUARY 1699 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(卉	Р	v	Ω	Ç	Ŷ,	Day
S 1	8 45 39	12≈30'13	22≈ 5	12°R44	10°R30	11) (43	21 🗷 23	21≈33	2°R50	1 Υ 13	8°R26	3°R17	5 ♀ 2	19 × 14	12°R10	S 1
M 2	8 49 36	13°31'02	4) (46	11≈32	9≈53	12°30	21°34	21°40	29549	1°15	$8\Omega 25$	3 ₾ 10	4°58	19°20	12 mg 6	M 2
T 3	8 53 32	14°31'50	17°37	10°20	9°17	13°17	21°45	21°47	2°47	1°17	8°23	3° 7	4°55	19°27	12° 2	T 3
W 4	8 57 29	15°32'36	0 Υ 40	9°11	8°42	14° 4	21°55	21°55	2°45	1°18	8°22	3°D 6	4°52	19°34	11°58	W 4
T 5	9 1 25	16°33'21	13°56	8° 6	8° 7	14°50	22° 6	22° 2	2°43	1°20	8°21	3° 6	4°49	19°41	11°54	T 5
F 6	9 5 22	17°34'05	27°24	7° 7	7°35	15°37	22°16	22° 9	2°42	1°22	8°19	3° 7	4°46	19°47	11°50	F 6
S 7	9 9 18	18°34'47	118 7	6°14	7° 3	16°24	22°26	22°16	2°40	1°24	8°18	3° 8	4°43	19°54	11°46	S 7
S 8	9 13 15	19°35'27	25° 5	5°28	6°33	17°10	22°37	22°24	2°39	1°25	8°16	3°R 8	4°39	20° 1	11°42	S 8
M 9	9 17 11	20°36'05	9∏18	4°50	6° 6	17°57	22°47	22°31	2°37	1°27	8°15	3° 7	4°36	20° 8	11°38	M 9
T 10	9 21 8	21°36'42	23°43	4°20	5°40	18°43	22°57	22°38	2°36	1°29	8°14	3° 3	4°33	20°14	11°34	T 10
W11	9 25 5	22°37'16	89918	3°58	5°16	19°30	23° 6	22°45	2°34	1°31	8°12	2°58	4°30	20°21	11°29	W11
T 12	9 29 1	23°37'50	22°57	3°44	4°55	20°16	23°16	22°53	2°33	1°33	8°11	2°52	4°27	20°28	11°25	T 12
F 13	9 32 58	24°38'21	7 Ω 33	3°D37	4°35	21° 3	23°26	23° 0	2°32	1°35	8°10	2°46	4°24	20°34	11°21	F 13
S 14	9 36 54	25°38'51	21°59	3°37	4°19	21°49	23°35	23° 7	2°30	1°37	8° 8	2°41	4°20	20°41	11°16	S 14
S 15	9 40 51	26°39'19	6Mp 9	3°44	4° 4	22°35	23°45	23°14	2°29	1°38	8° 7	2°36	4°17	20°48	11°12	S 15
M16	9 44 47	27°39'45	19°57	3°57	3°52	23°22	23°54	23°21	2°28	1°40	8° 6	2°34	4°14	20°55	11° 7	M16
T 17	9 48 44	28°40'10	3 ₾ 22	4°16	3°43	24° 8	24° 3	23°29	2°27	1°42	8° 4	2°D33	4°11	21° 1	11° 2	T 17
W18	9 52 40	29°40'34	16°24	4°41	3°36	24°54	24°12	23°36	2°26	1°44	8° 3	2°34	4° 8	21° 8	10°58	W18
T 19	9 56 37	0) 40′56	29° 4	5°11	3°32	25°40	24°21	23°43	2°25	1°46	8° 2	2°36	4° 4	21°15	10°53	T 19
F 20	10 0 34	1°41'16	11 M 25	5°45	3°D30	26°26	24°30	23°50	2°24	1°48	8° 0	2°37	4° 1	21°21	10°48	F 20
S 21	10 4 30	2°41'35	23°32	6°25	3°30	27°13	24°39	23°57	2°23	1°50	7°59	2°39	3°58	21°28	10°44	S 21
S 22	10 8 27	3°41'53	5 ₹ 29	7° 8	3°33	27°59	24°47	24° 5	2°22	1°52	7°58	2°R39	3°55	21°35	10°39	S 22
M23	10 12 23	4°42'09	17°21	7°54	3°39	28°45	24°56	24°12	2°21	1°55	7°57	2°38	3°52	21°42	10°34	M23
T 24	10 16 20	5°42'24	29°13	8°45	3°46	29°31	25° 4	24°19	2°20	1°57	7°55	2°36	3°49	21°48	10°29	T 24
W25	10 20 16	6°42'37	11 궁 10	9°38	3°56	0 Υ 17	25°12	24°26	2°20	1°59	7°54	2°33	3°45	21°55	10°25	W25
T 26	10 24 13	7°42'49	23°15	10°35	4° 8	1° 3	25°21	24°33	2°19	2° 1	7°53	2°29	3°42	22° 2	10°20	T 26
F 27	10 28 9	8°42'59	5≈32	11°34	4°22	1°49	25°29	24°40	2°18	2° 3	7°52	2°25	3°39	22° 8	10°15	F 27
S 28	10 32 6	9) 43'07	18 ≈ 2	12≈36	4≈39	2 Y 35	25 × 36	24≈47	29518	2 Υ 5	7Ω 51	2 ≏ 21	3 ≏ 36	22 × 15	10 m 10	S 28

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S 1	17s 5	10 s59	3n22	13 s35	3n35	10s10	7n44	7 s58	0s51	22 s42	0n29	15 s28	1 s11	23n45	0n18	0 s49	1 s26	24n48	6n52	1 s18	2 s 0	18s 6	1n36	5 s 5 0
M 2	16 47	7 30	2 26	13 50	3 39	10 14	7 51	7 39	0 50	22 43	0 29	15 26	1 11	23 45	0 18	0 49	1 26	24 48	6 52	1 16	1 59	18 6	1 38	5 50
T 3	16 30	3 38	1 22	14 7	3 41	10 18	7 56	7 21	0 50	22 44	0 29	15 23	1 11	23 45	0 18	0 48	1 26	24 49	6 52	1 14	1 58	18 7	1 39	5 51
W 4	16 12	0n28	0 13	14 26	3 41	10 22	8 1	7 2	0 49	22 44	0 29	15 21	1 11	23 45	0 18	0 47	1 26	24 49	6 52	1 14	1 56	18 7	1 40	5 51
T 5	15 54	4 36	0s58	14 45	3 39	10 27	8 4	6 43	0 48	22 45	0 29	15 19	1 11	23 45	0 18	0 47	1 26	24 49	6 52	1 14	1 55	18 7	1 42	5 51
F 6	15 36	8 35	2 8	15 4	3 34	10 33	8 7	6 25	0 48	22 46	0 29	15 16	1 11	23 45	0 18	0 46	1 26	24 50	6 52	1 15	1 54	18 7	1 43	5 51
S 7	15 17	12 10	3 11	15 23	3 28	10 39	8 9	6 6	0 47	22 46	0 29	15 14	1 11	23 45	0 18	0 45	1 25	24 50	6 52	1 15	1 52	18 8	1 45	5 51
S 8	14 58	15 7	4 4	15 42	3 20	10 45	8 9	5 47	0 47	22 47	0 29	15 12	1 12	23 45	0 18	0 44	1 25	24 51	6 52	1 15	1 51	18 8	1 46	5 51
M 9	14 39	17 12	4 43	16 0	3 11	10 52	8 9	5 29	0 46	22 48	0 29	15 9	1 12	23 45	0 18	0 44	1 25	24 51	6 52	1 14	1 50	18 8	1 48	5 51
T 10	14 19	18 14	5 5	16 17	3 0	10 59	8 9	5 10	0 45	22 48	0 29	15 7	1 12	23 45	0 18	0 43	1 25	24 51	6 52	1 13	1 49	18 9	1 49	5 51
W11	14 0	18 5	5 8	16 33	2 49	11 6	8 7	4 51	0 45	22 49	0 29	15 5	1 12	23 45	0 18	0 42	1 25	24 52	6 52	1 11	1 47	18 9	1 51	5 51
T 12	13 40	16 44	4 51	16 48	2 38	11 13	8 5	4 32	0 44	22 49	0 29	15 3	1 12	23 45	0 18	0 41	1 25	24 52	6 52	1 9	1 46	18 9	1 53	5 51
F 13	13 20	14 18	4 15	17 1	2 25	11 21	8 2	4 13	0 43	22 50	0 29	15 0	1 12	23 45	0 18	0 41	1 25	24 53	6 52	1 6	1 45	18 9	1 54	5 51
S 14	12 59	11 0	3 23	17 13	2 13	11 28	7 58	3 54	0 43	22 50	0 29	14 58	1 12	23 45	0 18	0 40	1 25	24 53	6 52	1 4	1 44	18 10	1 56	5 51
S 15	12 39	7 7	2 19	17 24	2 0	11 35	7 53	3 35	0 42	22 51	0 29	14 56	1 12	23 45	0 18	0 39	1 25	24 53	6 52	1 2	1 42	18 10	1 58	5 51
M16	12 18	2 56	1 8	17 33	1 48	11 43	7 49	3 16	0 41	22 51	0 29	14 53	1 12	23 45	0 18	0 38	1 25	24 54	6 52	1 1	1 41	18 10	2 0	5 51
T 17	11 57	1 s 1 6	0n 4	17 41	1 35	11 50	7 43	2 57	0 41	22 52	0 29	14 51	1 12	23 45	0 18	0 37	1 25	24 54	6 52	1 1	1 40	18 10	2 1	5 51
W18	11 36	5 18	1 15	17 47	1 22	11 58	7 37	2 39	0 40	22 52	0 29	14 49	1 12	23 46	0 18	0 37	1 25	24 54	6 52	1 1	1 39	18 11	2 3	5 51
T 19	11 15	8 59	2 20	17 52	1 10	12 5	7 31	2 20	0 39	22 52	0 29	14 46	1 12	23 46	0 18	0 36	1 25	24 55	6 52	1 2	1 37	18 11	2 5	5 51
F 20	10 53	12 10	3 17	17 56	0 58	12 12	7 24	2 1	0 39	22 53	0 29	14 44	1 12	23 46	0 18	0 35	1 25	24 55	6 52	1 3	1 36	18 11	2 7	5 51
S 21	10 32	14 45	4 3	17 58	0 46	12 19	7 17	1 42	0 38	22 53	0 29	14 42	1 12	23 46	0 18	0 34	1 25	24 55	6 52	1 3	1 35	18 11	2 9	5 50
S 22	10 10	16 40	4 39	17 58	0 34	12 25	7 10	1 23	0 37	22 53	0 29	14 39	1 12	23 46	0 18	0 33	1 25	24 56	6 52	1 3	1 34	18 11	2 11	5 50
M23	9 48	17 51	5 2	17 57	0 23	12 31	7 2	1 4	0 37	22 54	0 29	14 37	1 13	23 46	0 18	0 32	1 25	24 56	6 52	1 3	1 32	18 12	2 13	5 50
T 24	9 26	18 16	5 13	17 55	0 12	12 38	6 54	0 45	0 36	22 54	0 29	14 35	1 13	23 46	0 18	0 32	1 25	24 56	6 52	1 2	1 31	18 12	2 15	5 50
W25	9 4	17 51	5 10	17 51	0 1	12 43	6 46	0 26	0 35	22 54	0 29	14 32	1 13	23 46	0 18	0 31	1 25	24 57	6 52	1 1	1 30	18 12	2 17	5 50
T 26	8 41	16 39	4 53	17 46	0s 9	12 49	6 37	0 7	0 35	22 55	0 29	14 30	1 13	23 46	0 18	0 30	1 25	24 57	6 52	0 59	1 28	18 12	2 19	5 50
F 27	8 19	14 40	4 23	17 39	0 19	12 54	6 29	0n12	0 34	22 55	0 29	14 28	1 13	23 46	0 18	0 29	1 25	24 57	6 52	0 58	1 27	18 13	2 21	5 49
S 28	7 s56	11 s58	3n40	17 s31	0s29	12 s59	6n20	0n31	0 s33	22 s55	0n29	14 s25	1 s 1 3	23n46	0n18	0 s28	1 s25	24n58	6n52	0 s56	1 s26	18s13	2n23	5 s49

 $\label{eq:Julian Day Number = 2341638.5, Delta T = 14.61 sec} \\ Ecliptic obliquity = 23°28'33, Nutation = 0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°32'23, Lahiri = 19°39'24Greg. Calendar$

MARCH 1699 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	♂	4	ħ)∤(,	Р	n	Ω	Ç	ķ	Day
S 1	10 36 3	10 ¥ 43'14	0 ¥ 47	13≈41	4 ≈ 57	3 Υ 21	25 × 744	24≈55	2°R17	2 Υ 7	7°R50	2°R18	3 ₾ 33	22 × ⁷ 22	10°R 5	S 1
M 2	10 39 59	11°43'18	13°47	14°48	5°17	4° 6	25°52	25° 2	29517	2° 9	$7\Omega48$	2 <u>₽</u> 16	3°29	22°29	10 m 0	M 2
T 3	10 43 56	12°43'21	27° 1	15°57	5°39	4°52	25°59	25° 9	2°16	2°11	7°47	2°D15	3°26	22°35	9°56	T 3
W 4	10 47 52	13°43'22	10 Y 29	17° 8	6° 3	5°38	26° 6	25°16	2°16	2°14	7°46	2°15	3°23	22°42	9°51	W 4
T 5	10 51 49	14°43'20	24° 8	18°21	6°28	6°24	26°13	25°23	2°16	2°16	7°45	2°16	3°20	22°49	9°46	T 5
F 6	10 55 45	15°43'17	7 8 58	19°36	6°55	7° 9	26°20	25°30	2°15	2°18	7°44	2°17	3°17	22°56	9°41	F 6
S 7	10 59 42	16°43'11	21°57	20°52	7°24	7°55	26°27	25°36	2°15	2°20	7°43	2°18	3°14	23° 2	9°36	S 7
S 8	11 3 38	17°43'04	6 II 2	22°10	7°54	8°40	26°34	25°43	2°15	2°22	7°42	2°19	3°10	23° 9	9°32	S 8
M 9	11 7 35	18°42'54	20°12	23°30	8°26	9°26	26°40	25°50	2°15	2°25	7°41	2°R19	3° 7	23°16	9°27	M 9
T 10	11 11 32	19°42'41	49526	24°52	8°59	10°11	26°47	25°57	2°D15	2°27	7°40	2°19	3° 4	23°22	9°22	T 10
W11	11 15 28	20°42'27	18°40	26°15	9°33	10°57	26°53	26° 4	2°15	2°29	7°39	2°18	3° 1	23°29	9°18	W11
T 12	11 19 25	21°42'10	2 Ω 52	27°39	10° 9	11°42	26°59	26°11	2°15	2°31	7°38	2°17	2°58	23°36	9°13	T 12
F 13	11 23 21	22°41'51	16°58	29° 5	10°46	12°28	27° 5	26°17	2°15	2°34	7°37	2°16	2°55	23°43	9° 8	F 13
S 14	11 27 18	23°41'29	0 m 54	0) €33	11°25	13°13	27°11	26°24	2°15	2°36	7°36	2°14	2°51	23°49	9° 4	S 14
S 15	11 31 14	24°41'06	14°38	2° 1	12° 4	13°58	27°16	26°31	2°15	2°38	7°35	2°14	2°48	23°56	8°59	S 15
M16	11 35 11	25°40'40	28° 7	3°32	12°45	14°43	27°22	26°38	2°16	2°40	7°34	2°D13	2°45	24° 3	8°55	M16
T 17	11 39 7	26°40'12	11 ≏ 18	5° 3	13°26	15°28	27°27	26°44	2°16	2°43	7°33	2°14	2°42	24° 9	8°50	T 17
W18	11 43 4	27°39'43	24°12	6°36	14° 9	16°14	27°32	26°51	2°16	2°45	7°33	2°14	2°39	24°16	8°46	W18
T 19	11 47 0	28°39'11	6 M .49	8°10	14°53	16°59	27°37	26°57	2°17	2°47	7°32	2°14	2°35	24°23	8°41	T 19
F 20	11 50 57	29°38'38	19°10	9°46	15°37	17°44	27°42	27° 4	2°17	2°49	7°31	2°15	2°32	24°30	8°37	F 20
S 21	11 54 54	0 Υ 38'02	1 才 18	11°23	16°23	18°29	27°46	27°10	2°18	2°52	7°30	2°15	2°29	24°36	8°33	S 21
S 22	11 58 50	1°37'25	13°17	13° 1	17°10	19°14	27°51	27°17	2°19	2°54	7°30	2°15	2°26	24°43	8°29	S 22
M23	12 2 47	2°36'47	2 <u>5</u> °11	14°41	17°57	19°58	27°55	27°23	2°19	2°56	7°29	2°15	2°23	24°50	8°24	M23
T 24	12 6 43	3°36'06	7중 5	16°22	18°45	20°43	27°59	27°29	2°20	2°58	7°28	2°15	2°20	24°56	8°20	T 24
W25	12 10 40	4°35'24	19° 2	18° 4	19°34	21°28	28° 3	27°36	2°21	3° 1	7°27	2°15	2°16	25° 3	8°16	W25
T 26	12 14 36	5°34'40	1≈ 8	19°48	20°24	22°13	28° 7	27°42	2°21	3° 3	7°27	2°15	2°13	25°10	8°12	T 26
F 27	12 18 33	6°33'54	13°27	21°33	21°14	22°58	28°10	27°48	2°22	3° 5	7°26	2°16	2°10	25°17	8° 8	F 27
S 28	12 22 29	7°33'06	26° 2	23°19	22° 5	23°42	28°14	27°54	2°23	3° 8	7°26	2°16	2° 7	25°23	8° 5	S 28
S 29	12 26 26	8°32'16	8 ¥ 56	25° 7	22°57	24°27	28°17	28° 0	2°24	3°10	7°25	2°17	2° 4	25°30	8° 1	S 29
M30	12 30 23	9°31'24	22°10	26°56	23°50	25°11	28°20	28° 6	2°25	3°12	7°24	2°17	2° 0	25°37	7°57	M30
T 31	12 34 19	10 Y 30'30	5 Ƴ 44	28) (47	24≈43	25 Y 56	28 × 23	28≈12	29526	3 Υ 14	7Ω 24	2°R17	1 ≙ 57	25 ∡ 744	7 m 54	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 T 3	7 s33 7 11 6 48	4 51 1 40		17 13 7 6 2	1 9 0 32	22 s56 0n29 22 56 0 29 22 56 0 29	14 21 1 13	23n46 0n18 23 46 0 18 23 46 0 18	0s27 1s25 0 27 1 25 0 26 1 25	24 58 6 52	0 s55 0 54 0 54	1 s25 18 s13 1 23 18 13 1 22 18 13	2n25 5s49 2 27 5 49 2 29 5 48
W 4 T 5 F 6 S 7	6 25 6 2 5 38 5 15	7 33 1 58 11 16 3 5	16 44 1 16 29 1 1 16 13 1 1 15 55 1 2	11 13 16 5 35 19 13 18 5 26	2 5 0 30 2 24 0 29	22 56 0 29 22 57 0 29 22 57 0 29 22 57 0 29	14 14 1 13 14 12 1 14	23 46 0 18 23 46 0 18	0 23 1 25	24 59 6 52 24 59 6 52	0 54 0 54 0 55 0 55	1 21 18 14 1 20 18 14 1 18 18 14 1 17 18 14	2 31 5 48 2 33 5 48 2 35 5 47 2 37 5 47
S 8 M 9 T 10 W11 T 12 F 13 S 14	4 52 4 28 4 5 3 41 3 18	16 41 4 44 17 58 5 9 18 8 5 16 17 10 5 4 15 8 4 33 12 12 3 45	15 36 1 3 15 15 1 3 14 53 1 4 14 30 1 4 14 6 1 5 13 40 1 5	32 13 22 5 8 38 13 23 4 59 14 13 23 4 49 19 13 23 4 40 54 13 22 4 31 59 13 21 4 22	3 1 0 28 3 19 0 27 3 38 0 27 3 56 0 26 4 15 0 25 4 33 0 25	22 57 0 29 22 57 0 29 22 58 0 29	14 7 1 14 14 5 1 14 14 3 1 14 14 1 1 14 13 58 1 14 13 56 1 14	23 46 0 18 23 46 0 18 23 46 0 18 23 46 0 18 23 46 0 18	0 21 1 25 0 20 1 25	25 0 6 52 25 0 6 52 25 0 6 52 25 0 6 52 25 1 6 52 25 1 6 51	0 55 0 56 0 55 0 55 0 54 0 54 0 54	1 16 18 14 1 15 18 14 1 13 18 15 1 12 18 15 1 11 18 15 1 9 18 15 1 8 18 15	2 39 5 47 2 41 5 46 2 43 5 46 2 45 5 46 2 48 5 45 2 50 5 45 2 52 5 44
S 15 M16 T 17 W18 T 19 F 20 S 21	2 7 1 43 1 20 0 56 0 32 0 9 0n15	0 24 0 23 3 s43 0n50 7 33 1 59 10 58 3 0 13 49 3 52	12 14 2 1 11 43 2 1 11 11 2 1 10 38 2 1 10 3 2 1	10 13 15 3 55 12 13 12 3 47 15 13 8 3 38 16 13 4 3 29 18 12 59 3 20	5 28 0 23 5 46 0 22 6 4 0 21 6 22 0 21 6 40 0 20	22 59 0 28 22 59 0 28 22 59 0 28 22 59 0 28	13 50 1 15 13 48 1 15 13 45 1 15 13 43 1 15 13 41 1 15	23 46 0 18 23 46 0 18 23 45 0 18	0 14 1 25 0 13 1 25 0 12 1 25 0 11 1 25 0 11 1 25	25 1 6 51 25 1 6 51 25 2 6 51 25 2 6 51 25 2 6 51	0 53 0 53 0 53 0 53 0 53 0 53 0 54 0 54	1 7 18 15 1 6 18 16 1 4 18 16 1 3 18 16 1 2 18 16 1 1 18 16 0 59 18 16	2 56 5 43 2 58 5 43 3 0 5 43 3 2 5 42 3 4 5 42
S 22 M23 T 24 W25 T 26 F 27 S 28	0 39 1 2 1 26 1 50 2 13 2 37 3 0	18 9 5 15 18 2 5 16 17 6 5 4 15 25 4 38	8 11 2 1 7 31 2 1 6 51 2 1 6 9 2 1	19 12 42 2 55 19 12 35 2 47 18 12 28 2 39 17 12 20 2 31 15 12 11 2 23	7 33 0 18 7 50 0 17 8 8 0 17	22 59 0 28 22 59 0 28 22 59 0 28 22 59 0 28 22 59 0 28 23 0 0 28	13 35 1 16 13 33 1 16 13 31 1 16 13 29 1 16 13 27 1 16	23 45 0 18	0 8 1 25 0 7 1 25 0 6 1 25 0 5 1 25 0 4 1 25	25 2 6 51 25 2 6 51 25 2 6 51 25 2 6 50 25 3 6 50	0 54 0 54 0 54 0 54 0 54 0 54 0 54	0 58 18 17 0 57 18 17 0 56 18 17 0 54 18 17 0 53 18 17 0 52 18 17 0 51 18 17	3 8 5 40 3 10 5 40 3 12 5 39 3 14 5 39 3 16 5 38 3 18 5 38 3 20 5 37
S 29 M30 T 31	3 23 3 47 4n10	6 17 2 6 2 16 0 56 1n59 0s19	3 9 2	6 11 43 1 59	9 16 0 14 9 33 0 13 9n50 0s13	23 0 0 28	13 21 1 16	23 45 0 18 23 45 0 18 23n45 0n18	0 2 1 25	25 3 6 50	0 54 0 55 0 s55	0 49 18 17 0 48 18 18 0 s47 18 s18	3 24 5 36

Julian Day Number = 2341666.5, Delta T = 14.58 sec Ecliptic obliquity = 23°28'33, Nutation = $0^{\circ}00'02$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}32'27$, Lahiri = $19^{\circ}39'27$ Greg. Calendar

APRIL 1699 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)Å(ħ	Р	u	Ω	Ç	ę,	Day
W 1	12 38 16	11 Y 29'35	19 ° 37	0 Υ 39	25≈36	26 Υ 40	28 × ⁷ 26	28≈18	29527	3 Υ17	7°R23	2°R17	1 ≙ 54	25 × 750	7°R50	W 1
T 2	12 42 12	12°28'37	3 8 44	2°33	26°31	27°25	28°28	28°24	2°29	3°19	$7\Omega_{23}$	2 ₾ 16	1°51	25°57	7 m) 47	T 2
F 3	12 46 9	13°27'37	18° 3	4°28	27°25	28° 9	28°30	28°30	2°30	3°21	7°23	2°15	1°48	26° 4	7°43	F 3
S 4	12 50 5	14°26'35	2 Ⅱ 27	6°24	28°21	28°53	28°33	28°36	2°31	3°23	7°22	2°13	1°45	26°10	7°40	S 4
S 5	12 54 2	15°25'31	16°52	8°22	29°16	29°38	28°34	28°42	2°33	3°26	7°22	2°12	1°41	26°17	7°37	S 5
M 6	12 57 58	16°24'24	19514	10°21	0) €13	0 8 22	28°36	28°47	2°34	3°28	7°21	2°11	1°38	26°24	7°34	M 6
T 7	13 1 55	17°23'15	15°28	12°21	1° 9	1° 6	28°38	28°53	2°35	3°30	7°21	2°D10	1°35	26°31	7°31	T 7
W 8	13 5 52	18°22'04	29°33	14°23	2° 7	1°50	28°39	28°58	2°37	3°32	7°21	2°11	1°32	26°37	7°28	W 8
T 9	13 9 48	19°20'51	13 Ω 27	16°26	3° 4	2°34	28°40	29° 4	2°38	3°34	7°20	2°12	1°29	26°44	7°25	T 9
F 10	13 13 45	20°19'35	27° 9	18°30	4° 2	3°18	28°41	29° 9	2°40	3°37	7°20	2°13	1°26	26°51	7°22	F 10
S 11	13 17 41	21°18'17	10 m 39	20°35	5° 1	4° 2	28°42	29°15	2°42	3°39	7°20	2°14	1°22	26°58	7°20	S 11
S 12	13 21 38	22°16'56	23°56	22°41	6° 0	4°46	28°43	29°20	2°43	3°41	7°20	2°15	1°19	27° 4	7°17	S 12
M13	13 25 34	23°15'34	7 요 0	24°48	6°59	5°30	28°43	29°25	2°45	3°43	7°20	2°R15	1°16	27°11	7°15	M13
T 14	13 29 31	24°14'09	19°52	26°55	7°58	6°14	28°44	29°30	2°47	3°45	7°19	2°14	1°13	27°18	7°12	T 14
W15	13 33 27	25°12'43	2 M 31	29° 2	8°58	6°57	28°R44	29°36	2°48	3°47	7°19	2°12	1°10	27°24	7°10	W15
T 16	13 37 24	26°11'15	14°57	1810	9°59	7°41	28°44	29°41	2°50	3°50	7°19	2° 9	1° 6	27°31	7° 8	T 16
F 17	13 41 20	27° 9'45	27°12	3°17	10°59	8°25	28°43	29°46	2°52	3°52	7°19	2° 5	1° 3	27°38	7° 6	F 17
S 18	13 45 17	28° 8'13	9 ∡ 18	5°24	12° 0	9° 8	28°43	29°51	2°54	3°54	7°19	2° 1	1° 0	27°45	7° 4	S 18
S 19	13 49 14	29° 6'39	21°16	7°30	13° 2	9°52	28°42	29°55	2°56	3°56	7°D19	1°56	0°57	27°51	7° 2	S 19
M20	13 53 10	0 8 5'04	3 ਰ 10	9°35	14° 3	10°35	28°41	0 ∺ 0	2°58	3°58	7°19	1°53	0°54	27°58	7° 1	M20
T 21	13 57 7	1° 3'27	15° 3	11°38	15° 5	11°19	28°40	0° 5	3° 0	4° 0	7°19	1°50	0°51	28° 5	6°59	T 21
W22	14 1 3	2° 1'49	26°59	13°40	16° 7	12° 2	28°39	0° 9	3° 2	4° 2	7°19	1°D49	0°47	28°11	6°57	W22
T 23	14 5 0	3° 0'09	9≈ 3	15°39	17°10	12°46	28°38	0°14	3° 5	4° 4	7°19	1°49	0°44	28°18	6°56	T 23
F 24	14 8 56	3°58'27	21°20	17°37	18°12	13°29	28°36	0°19	3° 7	4° 6	7°19	1°50	0°41	28°25	6°55	F 24
S 25	14 12 53	4°56'44	3) €54	19°31	19°15	14°12	28°34	0°23	3° 9	4° 8	7°19	1°52	0°38	28°32	6°54	S 25
S 26	14 16 49	5°55'00	16°50	21°23	20°18	14°55	28°32	0°27	3°11	4°10	7°20	1°53	0°35	28°38	6°53	S 26
M27	14 20 46	6°53'13	0 Υ 10	23°12	21°22	15°39	28°30	0°32	3°14	4°12	7°20	1°R54	0°31	28°45	6°52	M27
T 28	14 24 43	7°51'26	13°55	24°57	22°26	16°22	28°28	0°36	3°16	4°14	7°20	1°54	0°28	28°52	6°51	T 28
W29	14 28 39	8°49'36	28° 5	26°39	23°29	17° 5	28°25	0°40	3°18	4°16	7°20	1°51	0°25	28°59	6°50	W29
T 30	14 32 36	9 8 47'45	12835	28818	24) (34	17 8 48	28 × ⁷ 23	0) 44	39521	4 Υ 18	7Ω 21	1 ≗ 47	0 ჲ 22	29 × 5	6 ₯ 50	T 30

Day	0	J		ğ	5	Q)	C	3		4	ŧ	l.);	ł(4	7	E	2	n	ß	Ç	Š	;
	decl	decl l	at	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	4n33	6n13	1 s35	1 s33	1 s58	11 s22	1n44	10n 7	0s12	23 s (0n28	13 s17	1 s 1 7	23n45	0n18	0n 0	1 s25	25n 3	6n50	0 s55	0 s45	18s18	3n28	5 s35
T 2	4 56	10 11	2 46	0 43	1 53	11 11	1 37	10 24	0 11	23 (0 28	13 15	1 17	23 45	0 18	0 1	1 25	25 3	6 50	0 54	0 44	18 18	3 30	5 34
F 3	5 19	13 36	3 47	0n 8	1 48	10 59	1 29	10 40	0 11	23 (0 28	13 13		23 45		0 2	1 25	25 3	6 50	0 54	0 43	18 18	3 32	5 33
S 4	5 42	16 12	4 35	0 59	1 42	10 47	1 22	10 56	0 10	23 (0 28	13 11	1 17	23 45	0 18	0 3	1 25	25 3	6 50	0 53	0 42	18 18	3 34	5 33
S 5	6 5	17 46	5 5	1 52	1 35	10 34	1 15	11 13	0 9	23 (0 28	13 9	1 17	23 45	0 18	0 4	1 25	25 3	6 50	0 53	0 40	18 18	3 35	5 32
M 6	6 28	18 12	5 16	2 45	1 28	10 21	1 8	11 29	0 9	23 (0 28	13 7	1 18	23 45	0 18	0 5	1 25	25 3	6 49	0 52	0 39	18 18	3 37	5 31
T 7	6 50	17 29	5 8	3 39	1 21	10 7	1 2	11 45	0 8	23 (0 28	13 6	1 18	23 45	0 18	0 5	1 25	25 3	6 49	0 52	0 38	18 18	3 39	5 30
W 8	7 13	15 42	4 41	4 34	1 13	9 53	0 55	12 1	0 7		0 28	13 4	1 18		0 18	0 6	1 25	25 3	6 49	0 52			3 41	5 30
T 9	7 35	13 0	3 58	5 29	1 5	9 39			0 7		-	-	1 18			0 7	1 25	25 3	6 49	0 52		18 19	3 42	5 29
F 10	7 57	9 38	3 2	6 24	0 56					23 (-			23 45			1 25	25 3	6 49	0 53		18 19	3 44	5 28
S 11	8 19	5 47	1 56	7 20	0 46	9 8	0 35	12 48	0 5	23 (0 28	12 59	1 18	23 45	0 18	0 9	1 25	25 3	6 49	0 53	0 33	18 19	3 46	5 28
S 12	8 41	1 43	0 46	8 16	0 37	8 52		-		23 (12 57		23 45		0 10		25 3	6 49	0 54		18 19	3 47	5 27
M13	9 3	2 s23	0n26	-	0 27	8 36		-			-		1 19			0 11	1 25	25 3	6 49	0 54	0 30	-	3 49	5 26
T 14	9 25	6 18		10 8	0 17	8 20	0 17	13 34						23 45		0 11	1 25	25 3	6 49	0 53	0 29	-	3 50	5 25
W15	9 46	9 53	2 39	11 3	0 6	8 3	0 11	13 49	0 3				1 19			0 12	1 25	25 3	6 48	0 53	0 28		3 52	5 25
T 16	10 8	12 57	3 33		0n 5	7 45	0 6	14 4	0 2				1 19			0 13	1 25	25 2	6 48	0 51	0 26	-	3 53	5 24
F 17	10 29	-		12 52	0 15	7 28			0 1	23 (0 20		1 19			0 14	1 25	25 2	6 48	0 50		18 19	3 55	5 23
S 18	10 50	17 7	4 49	13 45	0 26	7 9	0 6	14 33	0 1	23 1	0 28	12 47	1 19	23 45	0 18	0 15	1 25	25 2	6 48	0 48	0 24	18 19	3 56	5 22
S 19	11 11		-	14 37	0 37	6 51		14 48	0 0	23 1	0 28	-		23 44		0 16	1 25	25 2	6 48	0 46		18 19	3 58	5 22
M20	11 31	-	-	15 28	0 48	6 32				23 1	0 28			23 44		0 16	1 25	25 2	6 48	0 45		-	3 59	5 21
T 21	-	17 35	-	16 16	0 59	6 13	0 21	15 16	0 1	23 1	0 28			23 44		0 17	1 25	25 2	6 48	0 44			4 0	5 20
W22	12 12			17 4	1 9	5 53				23 1	0 28			23 44		0 18	1 25		6 48	0 43	0 19		4 2	5 19
T 23	12 32		-	17 49	1 19	5 34	0 31	15 44		23 1	0 27	-		23 44		0 19	1 26	-	6 48	0 44		18 19	4 3	5 18
F 24	-	11 12		18 31	1 28	5 14				23 1	0 27		1 21	-		0 20	1 26	-	6 47	0 44			4 4	5 18
S 25	13 11	7 48	2 27	19 12	1 38	4 53	0 41	16 11	0 4	23 1	0 27		1 21			0 20	1 26	25 1	6 47	0 45	0 15		4 5	5 17
S 26	13 31	3 57		19 50	1 46	4 32		16 25	0 4	23 1	0 27		1 21	-		0 21	1 26	-	6 47	0 45		18 20	4 6	5 16
M27	13 50	0n13		20 26	1 54	4 12			0 5	-	0 27	-	1 21	-		0 22	1 26	-	6 47	0 45		18 20	4 7	5 15
T 28	14 9	4 30		21 0	2 1	3 50			0 6	-	0 27			23 44	0 18	0 23	1 26		6 47	0 45		18 20	4 8	5 14
W29	14 28	8 40	-	21 31	2 8	3 29			0 6	-	0 27	-		23 44	0 18	0 23	1 26	-	6 47	0 44		18 20	4 9	5 14
T 30	14n46	12n25	3 s23	21n59	2n14	3s 7	1 s 2	17n16	0n 7	23 s 1	0n27	12 s30	1 s22	23n44	0n18	0n24	1 s26	25n 1	6n47	0 s43	0s 9	18 s20	4n10	5 s 1 3

Julian Day Number = 2341697.5, Delta T = 14.55 sec Ecliptic obliquity = $23^{\circ}28'34$, Nutation = $0^{\circ}00'00$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}32'31$, Lahiri = $19^{\circ}39'32$ Greg. Calendar

MAY 1699 GC 00:00 UT

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Day	Sid.t	0)	ğ	φ	♂	4	ħ)Å(¥	Р	S.	v	Ç	ķ	Day
F 1	14 36 32	10845'52	27820	29 8 53	25) 38	18831	28°R20	0) 48	3923	4 Υ20	7 Ω 21	1°R42	0 ჲ 19	29 × 12	6°R49	F 1
S 2	14 40 29	11°43'58	12 II 12	1П24	26°42	19°14	28 🗷 17	0°52	3°26	4°22	7°21	1 ≏ 36	0°16	29°19	6 m 49	S 2
S 3	14 44 25	12°42'02	27° 2	2°51	27°47	19°56	28°14	0°55	3°28	4°24	7°22	1°30	0°12	29°25	6°48	S 3
M 4	14 48 22	13°40'04	119543	4°14	28°52	20°39	28°10	0°59	3°31	4°26	7°22	1°26	0° 9	29°32	6°48	M 4
T 5	14 52 18	14°38'04	26° 9	5°33	29°57	21°22	28° 7	1° 3	3°34	4°28	7°22	1°22	0° 6	29°39	6°D48	T 5
W 6	14 56 15	15°36'02	10 Ω 17	6°49	1 Υ 2	22° 5	28° 3	1° 6	3°36	4°29	7°23	1°D21	0° 3	29°46	6°48	W 6
T 7	15 0 12	16°33'58	24° 5	8° 0	2° 8	22°47	27°59	1°10	3°39	4°31	7°23	1°21	29 m 59	29°52	6°49	T 7
F 8	15 4 8	17°31'53	7 ™ 35	9° 6	3°13	23°30	27°55	1°13	3°42	4°33	7°24	1°22	29°57	29°59	6°49	F 8
S 9	15 8 5	18°29'45	20°47	10° 9	4°19	24°13	27°51	1°16	3°44	4°35	7°24	1°23	29°53	0 රි 6	6°49	S 9
S 10	15 12 1	19°27'36	3 ₾ 44	11° 7	5°25	24°55	27°46	1°20	3°47	4°37	7°25	1°R24	29°50	0°12	6°50	S 10
M11	15 15 58	20°25'25	16°28	12° 1	6°31	25°37	27°42	1°23	3°50	4°38	7°25	1°22	29°47	0°19	6°51	M11
T 12	15 19 54	21°23'12	29° 0	12°50	7°37	26°20	27°37	1°26	3°53	4°40	7°26	1°19	29°44	0°26	6°51	T 12
W13	15 23 51	22°20'58	11 M 23	13°35	8°43	27° 2	27°32	1°29	3°56	4°42	7°27	1°14	29°41	0°33	6°52	W13
T 14	15 27 47	23°18'43	23°37	14°15	9°50	27°45	27°27	1°31	3°59	4°43	7°27	1° 6	29°37	0°39	6°53	T 14
F 15	15 31 44	24°16'26	5 ∡ 743	14°51	10°57	28°27	27°22	1°34	4° 2	4°45	7°28	0°57	29°34	0°46	6°54	F 15
S 16	15 35 41	25°14'08	17°43	15°22	12° 3	29° 9	27°17	1°37	4° 5	4°47	7°29	0°46	29°31	0°53	6°56	S 16
S 17	15 39 37	26°11'48	29°38	15°48	13°10	29°51	27°11	1°39	4° 8	4°48	7°29	0°36	29°28	1° 0	6°57	S 17
M18	15 43 34	27° 9'28	11 궁 31	16° 9	14°17	0Д33	27° 6	1°42	4°11	4°50	7°30	0°27	29°25	1° 6	6°58	M18
T 19	15 47 30	28° 7'06	23°23	16°26	15°24	1°15	27° 0	1°44	4°14	4°51	7°31	0°20	29°22	1°13	7° 0	T 19
W20	15 51 27	29° 4'43	5≈18	16°37	16°32	1°57	26°54	1°47	4°17	4°53	7°32	0°15	29°18	1°20	7° 2	W20
T 21	15 55 23	0 Ⅱ 2'20	17°21	16°44	17°39	2°39	26°48	1°49	4°20	4°54	7°33	0°12	29°15	1°26	7° 4	T 21
F 22	15 59 20	0°59'55	29°35	16°R47	18°47	3°21	26°42	1°51	4°23	4°56	7°33	0°D11	29°12	1°33	7° 5	F 22
S 23	16 3 16	1°57'29	12 米 6	16°44	19°54	4° 3	26°36	1°53	4°26	4°57	7°34	0°11	29° 9	1°40	7° 7	S 23
S 24	16 7 13	2°55'03	24°58	16°38	21° 2	4°45	26°29	1°55	4°29	4°59	7°35	0°R12	29° 6	1°47	7°10	S 24
M25	16 11 10	3°52'35	8 Υ 16	16°27	22°10	5°27	26°23	1°57	4°33	5° 0	7°36	0°12	29° 3	1°53	7°12	M25
T 26	16 15 6	4°50'07	22° 2	16°11	23°18	6° 8	26°16	1°58	4°36	5° 1	7°37	0°10	28°59	2° 0	7°14	T 26
W27	16 19 3	5°47'38	6 8 17	15°53	24°26	6°50	26°10	2° 0	4°39	5° 3	7°38	0° 6	28°56	2° 7	7°17	W27
T 28	16 22 59	6°45'08	20°57	15°30	25°34	7°32	26° 3	2° 1	4°42	5° 4	7°39	29 m 59	28°53	2°14	7°19	T 28
F 29	16 26 56	7°42'37	5 Ⅱ 57	15° 5	26°42	8°13	25°56	2° 3	4°46	5° 5	7°40	29°50	28°50	2°20	7°22	F 29
S 30	16 30 52	8°40'06	21° 8	14°37	27°51	8°55	25°49	2° 4	4°49	5° 6	7°41	29°41	28°47	2°27	7°25	S 30
S 31	16 34 49	9 Ⅲ 37'33	69319	14 Ⅱ 7	28 Y 59	9П36	25 ∡ ¹42	2 米 5	4952	5 Υ 8	$7\Omega 42$	29 m 31	28 m 43	2 る 34	7 ₥ 28	S 31

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F 1 S 2	15n 5 15 23		5 22n25 2n19 2 22 48 2 23			3 23 s 1 0n 3 23 1 0		23n44 0n18 23 44 0 18		25n 0 6n47 25 0 6 46	0 s41 0 38		18 s20 18 20	4n11 5s12 4 12 5 11
S 3 M 4 T 5	15 40 15 58 16 15	17 54 5	23 28 2 29	2 1 1 14 1 1 38 1 17 1 1 15 1 21 1		23 1 0	27 12 27 1 22 27 12 25 1 22 27 12 24 1 23	23 44 0 18	0 27 1 26	25 0 6 46	0 36 0 34 0 33	0 4 1	18 20 18 20 18 20	4 13 5 10 4 14 5 9 4 15 5 9
W 6 T 7 F 8	16 32 16 49 17 5	13 49 4 10 33 3	23 44 2 31 23 58 2 31 8 24 10 2 31 5 24 19 2 30	0 52 1 24 1 0 29 1 27 1	3 29 0 11 3 41 0 11 3 52 0 12	23 1 0 23 1 0	27 12 23 1 23 27 12 22 1 23 27 12 21 1 23	23 43 0 18 23 43 0 18	0 28 1 26 0 29 1 26	24 59 6 46 24 59 6 46	0 32 0 32 0 33	0 1 1 0n 0 1	18 20 18 20 18 20	4 15 5 8 4 16 5 7 4 17 5 6
S 9 S 10	17 21 17 37	2 47 0 5	7 24 27 2 28 3 24 32 2 25	0n17 1 33 1		3 23 1 0	27 12 20 1 23	23 43 0 18 23 43 0 18	0 30 1 26	24 59 6 46	0 33	0 3 1	18 20 18 20	4 17 5 5 4 18 5 4
M11 T 12 W13	17 53 18 8 18 23	5 15 1 20 8 54 2 23 12 8 3 18		1 28 1 42 1	0 25 0 14 0 36 0 14 0 46 0 15	23 1 0	26 12 18 1 24 26 12 17 1 24 26 12 17 1 24	23 43 0 18	0 32 1 26	24 58 6 45	0 33 0 32 0 29	0 6 1	18 20 18 20 18 20	4 19 5 4 4 19 5 3 4 19 5 2
T 14 F 15 S 16	18 38 18 52 19 6	16 45 4 30	3 24 35 2 3 5 24 31 1 55 7 24 25 1 46	2 40 1 49 2		5 23 1 0	26 12 16 1 24 26 12 15 1 25 26 12 14 1 25		0 34 1 26	24 57 6 45	0 26 0 23 0 18		18 20 18 20 18 20	4 20 5 1 4 20 5 0 4 21 4 59
S 17 M18 T 19 W20 T 21 F 22	19 20 19 33 19 46 19 59 20 11 20 23	18 0 4 59 16 50 4 4 14 55 4 10 12 21 3 28		3 53 1 55 2 4 17 1 56 2 4 41 1 58 2 5 6 2 0 2	0 35 0 18 0 45 0 19 0 54 0 19 3 0 20	3 23 1 0 9 23 1 0 9 23 1 0 0 23 1 0	26 12 14 1 25 26 12 13 1 25 26 12 12 1 25 26 12 12 1 26 26 12 11 1 26 26 12 10 1 26	23 42 0 18 23 42 0 18 23 42 0 18 23 42 0 18	0 36 1 26 0 37 1 26 0 37 1 27 0 38 1 27	24 56 6 45 24 56 6 45 24 55 6 45 24 55 6 44	0 14 0 11 0 8 0 6 0 5 0 4	0 15 1 0 17 1 0 18 1	18 20 18 20 18 20 18 20 18 20 18 20	4 21 4 59 4 21 4 58 4 21 4 57 4 21 4 56 4 22 4 55 4 22 4 54
W27	20 35 20 46 20 57 21 8 21 18 21 28	1 34 0 28 2n38 0s43 6 50 1 54 10 48 3 0	3 22 49 0 1 3 22 32 0s15	6 43 2 5 2 7 7 2 6 2	28 0 21 36 0 22 44 0 23 52 0 23	1 23 0 0 2 23 0 0 3 23 0 0 3 23 0 0	25 12 9 1 27 25 12 9 1 27 25 12 8 1 27 25 12 8 1 27 25 12 8 1 27	23 42 0 18 23 42 0 18 23 41 0 18	0 39 1 27 0 40 1 27 0 40 1 27 0 41 1 27	24 54 6 44 24 54 6 44 24 53 6 44	0 5 0 5 0 5 0 4 0 2 0n 0	0 22 1 0 23 1 0 24 1 0 25 1	18 20 18 19 18 19 18 19 18 19	4 22 4 53 4 22 4 53 4 22 4 52 4 21 4 51 4 21 4 50 4 21 4 50
F 29 S 30	21 38 21 47	16 47 4 3° 18 12 4 59	7 21 15 1 24 9 20 54 1 41 0 20n34 1 s58	8 19 2 8 2 8 43 2 9 2	2 7 0 24 2 14 0 25	23 0 0 5 23 0 0	25 12 7 1 28 25 12 7 1 28		0 42 1 27 0 42 1 27		0 4 0 8	0 28 1	18 19 18 19	4 21 4 49 4 21 4 48 4n20 4s47

Julian Day Number = 2341727.5, Delta T = 14.52 sec

Ecliptic obliquity = $23^{\circ}28'33$, Nutation = $-0^{\circ}00'01$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = $20^{\circ}32'35$, Lahiri = $19^{\circ}39'36$ Greg. Calendar

JUNE 1699 GC 00:00 UT

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M 1	16 38 45	10 Ⅱ 34'59	219520	13°R35	ο Χ 8	10 I I18	25°R35	2 ∺ 7	4956	5 Υ 9	7 Ω 43	29°R22	28Mp40	2 ප් 40	7 m)31	M 1
T 2	16 42 42	11°32'24	6Ω 2	13 II 2	1°16	10°59	25 × ⁷ 28	2° 8	4°59	5°10	7°44	29 Mp 16	28°37	2°47	7°34	T 2
W 3	16 46 39	12°29'48	20°21	12°28	2°25	11°41	25°21	2° 9	5° 3	5°11	7°45	29°12	28°34	2°54	7°37	W 3
T 4	16 50 35	13°27'11	4 m) 13	11°55	3°34	12°22	25°13	2° 9	5° 6	5°12	7°46	29°11	28°31	3° 1	7°40	T 4
F 5	16 54 32	14°24'32	17°41	11°22	4°43	13° 3	25° 6	2°10	5° 9	5°13	7°48	29°D10	28°28	3° 7	7°44	F 5
S 6	16 58 28	15°21'53	0 ჲ 47	10°50	5°52	13°44	24°59	2°11	5°13	5°14	7°49	29°R10	28°24	3°14	7°47	S 6
S 7	17 2 25	16°19'12	13°33	10°20	7° 1	14°26	24°51	2°11	5°16	5°15	7°50	29°10	28°21	3°21	7°51	S 7
M 8	17 621	17°16'31	26° 4	9°53	8°10	15° 7	24°44	2°12	5°20	5°16	7°51	29° 7	28°18	3°27	7°55	M 8
T 9	17 10 18	18°13'48	8M24	9°27	9°19	15°48	24°36	2°12	5°23	5°17	7°52	29° 2	28°15	3°34	7°58	T 9
W10	17 14 14	19°11'05	20°34	9° 5	10°28	16°29	24°28	2°12	5°27	5°18	7°54	28°54	28°12	3°41	8° 2	W10
T 11	17 18 11	20° 8'21	2 ₹ 37	8°47	11°38	17°10	24°21	2°13	5°30	5°19	7°55	28°44	28° 9	3°48	8° 6	T 11
F 12	17 22 8	21° 5'37	14°36	8°32	12°47	17°51	24°13	2°R13	5°34	5°20	7°56	28°31	28° 5	3°54	8°10	F 12
S 13	17 26 4	22° 2'52	26°31	8°21	13°57	18°32	24° 6	2°13	5°37	5°21	7°58	28°17	28° 2	4° 1	8°15	S 13
S 14	17 30 1	23° 0'06	8 궁 24	8°15	15° 6	19°13	23°58	2°13	5°41	5°22	7°59	28° 4	27°59	4° 8	8°19	S 14
M15	17 33 57	23°57'20	20°16	8°D13	16°16	19°53	23°50	2°12	5°44	5°23	8° 0	27°51	27°56	4°15	8°23	M15
T 16	17 37 54	24°54'33	2≈10	8°16	17°26	20°34	23°43	2°12	5°48	5°23	8° 2	27°41	27°53	4°21	8°28	T 16
W17	17 41 50	25°51'47	14° 7	8°23	18°35	21°15	23°35	2°12	5°52	5°24	8° 3	27°33	27°49	4°28	8°33	W17
T 18	17 45 47	26°49'00	26°10	8°35	19°45	21°56	23°27	2°11	5°55	5°25	8° 4	27°28	27°46	4°35	8°37	T 18
F 19	17 49 43	27°46'13	8 ∺ 25	8°51	20°55	22°36	23°20	2°10	5°59	5°25	8° 6	27°26	27°43	4°41	8°42	F 19
S 20	17 53 40	28°43'25	20°54	9°13	22° 5	23°17	23°12	2°10	6° 2	5°26	8° 7	27°25	27°40	4°48	8°47	S 20
S 21	17 57 37	29°40'38	3 Υ43	9°39	23°15	23°57	23° 4	2° 9	6° 6	5°27	8° 9	27°25	27°37	4°55	8°52	S 21
M22	18 1 33	0937'51	16°56	10° 9	24°25	24°38	22°57	2° 8	6°10	5°27	8°10	27°25	27°34	5° 2	8°57	M22
T 23	18 5 30	1°35'04	0 8 36	10°45	25°36	25°19	22°49	2° 7	6°13	5°28	8°12	27°22	27°30	5° 8	9° 2	T 23
W24	18 9 26	2°32'16	14°45	11°24	26°46	25°59	22°42	2° 6	6°17	5°28	8°13	27°18	27°27	5°15	9° 7	W24
T 25	18 13 23	3°29'29	29°22	12° 9	27°56	26°39	22°34	2° 5	6°20	5°29	8°15	27°11	27°24	5°22	9°13	T 25
F 26	18 17 19	4°26'42	14∏22	12°58	29° 7	27°20	22°27	2° 3	6°24	5°29	8°16	27° 2	27°21	5°29	9°18	F 26
S 27	18 21 16	5°23'56	29°38	13°51	0 Ⅱ 17	28° 0	22°20	2° 2	6°28	5°29	8°18	26°51	27°18	5°35	9°23	S 27
S 28	18 25 12	6°21'09	14957	14°48	1°28	28°40	22°12	2° 0	6°31	5°30	8°19	26°41	27°15	5°42	9°29	S 28
M29	18 29 9	7°18'22	0Ω 8	15°50	2°38	29°21	22° 5	1°59	6°35	5°30	8°21	26°32	27°11	5°49	9°35	M29
T 30	18 33 6	89515'34	15 Ω 2	16耳56	3 Ⅱ 49	0ණ 1	21 ~ 158	1 ∺ 57	6939	5 Υ 30	$8\Omega 22$	26 Mp 24	27Mp 8	5 る 55	9 m 40	T 30

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M 1	22n 4		-	20n14		9n31		22n27	0n26	23 s 0	0n25	12s 7	1 s28	23n41	0n18	0n43	1 s27	24n51	6n43	0n15	0n32	18s19	4n20	4 s46
T 2	22 12	14 52	4 3	19 54	2 31	9 54	2 10	22 34	0 27	22 59	0 24	12 7	1 28	23 41	0 18	0 43	1 27	24 51	6 43	0 17	0 33	18 19	4 19	4 46
W 3	22 20	11 43	3 10	19 34	2 47	10 18	2 10	22 40	0 27	22 59	0 24	12 6	1 29	23 41	0 18	0 44	1 27	24 51	6 43	0 19	0 34	18 19	4 19	4 45
T 4	22 27	7 59	2 8	19 15	3 1	10 41	2 10	22 46	0 28	22 59	0 24	12 6	1 29	23 40	0 18	0 44	1 27	24 50	6 43	0 20	0 36	18 19	4 19	4 44
F 5	22 34	3 57	1 1	18 58	3 15	11 4	2 10	22 52	0 28	22 59	0 24	12 6	1 29	23 40	0 18	0 45	1 27	24 50	6 43	0 20	0 37	18 19	4 18	4 43
S 6	22 40	0s11	0n 9	18 41	3 27	11 27	2 10	22 58	0 29	22 59	0 24	12 6	1 29	23 40	0 18	0 45	1 27	24 49	6 43	0 20	0 38	18 19	4 17	4 42
S 7	22 46			18 26		11 50	2 10	23 3	0 29	22 59	0 24	12 6	1 30	23 40	0 18	0 45	1 27	24 49	6 43	0 20	0 39	18 19	4 17	4 42
M 8	22 52	7 57	2 17	18 12	3 49	12 12	2 10	23 8	0 30	22 58	0 24	12 6	1 30	23 40	0 18	0 46	1 27	24 49	6 43	0 21	0 41	18 18	4 16	4 41
T 9	22 57	11 18	3 12	17 59	3 58	12 35	2 9	23 13	0 30	22 58	0 24	12 6	1 30	23 40	0 18	0 46	1 27	24 48	6 43	0 23	0 42	18 18	4 15	4 40
W10	23 2	14 7	3 56	17 49	4 5	12 57	2 9	23 18	0 31	22 58	0 24	12 6	1 30	23 40	0 18	0 46	1 28	24 48	6 43	0 26	0 43	18 18	4 15	4 39
T 11	23 7	16 18	4 30	17 40	4 11	13 19	2 8	23 23	0 31	22 58	0 23	12 7	1 30	23 39	0 18	0 47	1 28	24 47	6 43	0 30	0 44	18 18	4 14	4 39
F 12	23 11	17 46	4 51	17 33	4 16	13 40	2 8	23 27	0 32	22 58	0 23	12 7	1 31	23 39	0 18	0 47	1 28	24 47	6 43	0 35	0 46	18 18	4 13	4 38
S 13	23 14	18 26	5 0	17 28	4 19	14 2	2 7	23 31	0 33	22 57	0 23	12 7	1 31	23 39	0 18	0 47	1 28	24 47	6 43	0 41	0 47	18 18	4 12	4 37
S 14	23 17	18 18	4 55	17 25	4 21	14 23	2 6	23 35	0 33	22 57	0 23	12 7	1 31	23 39	0 18	0 47	1 28	24 46	6 43	0 46	0 48	18 18	4 11	4 36
M15	23 20	17 22	4 38	17 24	4 22	14 44	2 5	23 39	0 34	22 57	0 23	12 8	1 31	23 39	0 18	0 48	1 28	24 46	6 42	0 51	0 49	18 18	4 10	4 36
T 16	23 23	15 41	4 8	17 25	4 21	15 4	2 4	23 42	0 34	22 57	0 23	12 8	1 32	23 39	0 18	0 48	1 28	24 45	6 42	0 55	0 51	18 18	4 9	4 35
W17	23 25	13 19	3 27	17 27	4 20	15 25	2 3	23 46	0 35	22 57	0 23	12 8	1 32	23 39	0 18	0 48	1 28	24 45	6 42	0 58	0 52	18 18	4 8	4 34
T 18	23 26	10 21	2 37	17 32	4 17	15 45		23 49	0 35	22 56	0 22	12 9	1 32	23 38	0 18	0 48	1 28	24 45	6 42	1 0	0 53	18 17	4 7	4 33
F 19	23 27	6 54	1 39	17 38	4 13	16 4	2 1	23 52	0 36	22 56	0 22	12 9	1 32	23 38	0 18	0 49	1 28	24 44	6 42	1 1	0 55	18 17	4 6	4 33
S 20	23 28	3 5	0 34	17 46	4 8	16 24	1 59	23 54	0 36	22 56	0 22	12 9	1 32	23 38	0 18	0 49	1 28	24 44	6 42	1 2	0 56	18 17	4 5	4 32
S 21	23 29	0n58	0 s33	17 56	4 3	16 43	1 58	23 57	0 37	22 56	0 22	12 10	1 33	23 38	0 18	0 49	1 28	24 43	6 42	1 2	0 57	18 17	4 4	4 31
M22	23 28	5 6	1 41	18 7	3 56	17 1	1 57	23 59	0 37	22 55	0 22	12 11	1 33	23 38	0 18	0 49	1 28	24 43	6 42	1 2	0 58	18 17	4 3	4 31
T 23	23 28	9 7	2 46	18 19	3 49	17 20	1 55	24 1	0 38	22 55	0 22	12 11	1 33	23 38	0 18	0 49	1 28	24 42	6 42	1 3	1 0	18 17	4 1	4 30
W24	23 27	12 45	3 42	18 33	3 40	17 37	1 53	24 3	0 38	22 55	0 22	12 12	1 33	23 37	0 18	0 49	1 28	24 42	6 42	1 4	1 1	18 17	4 0	4 29
T 25	23 26	15 42	4 26	18 47	3 31	17 55	1 52	24 5	0 39	22 55	0 21	12 12	1 33	23 37	0 18	0 50	1 28	24 42	6 42	1 7	1 2	18 16	3 59	4 28
F 26	23 24	17 42	4 54	19 3	3 22	18 12	1 50	24 6	0 39	22 54	0 21	12 13	1 34	23 37	0 18	0 50	1 28	24 41	6 42	1 11	1 3	18 16	3 58	4 28
S 27	23 22	18 28	5 0	19 20	3 12	18 29	1 48	24 7	0 40	22 54	0 21	12 14	1 34	23 37	0 18	0 50	1 28	24 41	6 42	1 15	1 5	18 16	3 56	4 27
S 28	23 19	17 54	4 46	19 37	3 1	18 45	1 46	24 8	0 40	22 54	0 21	12 14	1 34	23 37	0 18	0 50	1 29	24 40	6 42	1 19	1 6	18 16	3 55	4 26
M29	23 16	16 4	4 11	19 54	2 50	19 1	1 44	24 9	0 41	22 54	0 21	12 15	1 34	23 37	0 18	0 50	1 29	24 40	6 42	1 23	1 7	18 16	3 53	4 26
T 30	23n13	13n10	3 s20	20n13	2 s38	19n16	1 s43	24n10	0n41	22 s53	0n21	12s16	1 s35	23n36	0n18	0n50	1 s29	24n39	6n42	1n26	1n 8	18s16	3n52	4 s25

 $\label{eq:Julian Day Number = 2341758.5, Delta T = 14.49 sec} \\ Ecliptic obliquity = 23°28'32, Nutation = -0°00'01, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°32'40, Lahiri = 19°39'40Greg. Calendar$

JULY 1699 GC 00:00 UT

UUL	1099	uc													00.00	0 01
Day	Sid.t	0	D	ğ	φ	ð	4	ħ)Å(¥	В	v	v	Ç	ę,	Day
W 1	18 37 2	99512'47	29€32	18 I 6	4 Ⅱ 59	0941	21°R51	1°R55	69542	5 Υ 31	8 Ω 24	26°R20	27 m 5	6 ප 2	9 m 46	W 1
T 2	18 40 59	10° 9'59	13 m 33	19°20	6°10	1°21	21 ~ 44	1) (54	6°46	5°31	8°26	26 Mp 18	27° 2	6° 9	9°52	T 2
F 3	18 44 55	11° 7'11	27° 7	20°39	7°21	2° 1	21°37	1°52	6°49	5°31	8°27	26°D17	26°59	6°16	9°58	F 3
S 4	18 48 52	12° 4'23	10 ≙ 14	22° 1	8°32	2°41	21°30	1°50	6°53	5°31	8°29	26°R17	26°55	6°22	10° 4	S 4
S 5	18 52 48	13° 1'35	22°59	23°27	9°43	3°21	21°24	1°47	6°57	5°31	8°31	26°17	26°52	6°29	10°10	S 5
M 6	18 56 45	13°58'46	5M26	24°57	10°54	4° 1	21°17	1°45	7° 0	5°31	8°32	26°15	26°49	6°36	10°16	M 6
T 7	19 041	14°55'58	17°39	26°31	12° 5	4°41	21°11	1°43	7° 4	5°32	8°34	26°11	26°46	6°42	10°23	T 7
W 8	19 4 38	15°53'10	29°43	28° 9	13°16	5°21	21° 4	1°41	7° 7	5°32	8°36	26° 4	26°43	6°49	10°29	W 8
T 9	19 8 35	16°50'21	11 ×7 40	29°50	14°27	6° 1	20°58	1°38	7°11	5°R32	8°37	25°55	26°40	6°56	10°35	T 9
F 10	19 12 31	17°47'33	23°34	19934	15°38	6°41	20°52	1°36	7°15	5°32	8°39	25°44	26°36	7° 3	10°42	F 10
S 11	19 16 28	18°44'46	5 궁 26	3°22	16°49	7°20	20°46	1°33	7°18	5°31	8°41	25°32	26°33	7° 9	10°48	S 11
S 12	19 20 24	19°41'58	17°19	5°13	18° 0	8° 0	20°40	1°30	7°22	5°31	8°42	25°20	26°30	7°16	10°55	S 12
M13	19 24 21	20°39'11	29°14	7° 7	19°12	8°40	20°34	1°27	7°25	5°31	8°44	25° 9	26°27	7°23	11° 2	M13
T 14	19 28 17	21°36'24	11≈12	9° 3	20°23	9°20	20°29	1°25	7°29	5°31	8°46	24°59	26°24	7°30	11° 8	T 14
W15	19 32 14	22°33'38	23°16	11° 2	21°35	9°59	20°23	1°22	7°32	5°31	8°47	24°53	26°21	7°36	11°15	W15
T 16	19 36 10	23°30'53	5 ∺ 26	13° 3	22°46	10°39	20°18	1°19	7°36	5°31	8°49	24°48	26°17	7°43	11°22	T 16
F 17	19 40 7	24°28'08	17°47	15° 6	23°58	11°18	20°12	1°16	7°39	5°30	8°51	24°47	26°14	7°50	11°29	F 17
S 18	19 44 4	25°25'24	0 Υ 21	17°10	25° 9	11°58	20° 7	1°12	7°43	5°30	8°53	24°D46	26°11	7°56	11°36	S 18
S 19	19 48 0	26°22'40	13°11	19°16	26°21	12°37	20° 2	1° 9	7°46	5°30	8°54	24°47	26° 8	8° 3	11°43	S 19
M20	19 51 57	27°19'58	26°22	21°22	27°33	13°17	19°58	1° 6	7°50	5°29	8°56	24°R48	26° 5	8°10	11°50	M20
T 21	19 55 53	28°17'17	9 8 57	23°29	28°44	13°56	19°53	1° 2	7°53	5°29	8°58	24°47	26° 1	8°17	11°57	T 21
W22	19 59 50	29°14'36	23°57	25°36	29°56	14°36	19°49	0°59	7°57	5°29	9° 0	24°45	25°58	8°23	12° 5	W22
T 23	20 3 46	0 Ω 11'57	8 Ⅱ 22	27°43	195 8	15°15	19°44	0°56	8° 0	5°28	9° 1	24°40	25°55	8°30	12°12	T 23
F 24	20 7 43	1° 9'19	23°10	29°49	2°20	15°54	19°40	0°52	8° 4	5°28	9° 3	24°34	25°52	8°37	12°19	F 24
S 25	20 11 39	2° 6'42	89514	1 N 55	3°32	16°33	19°36	0°48	8° 7	5°27	9° 5	24°26	25°49	8°43	12°27	S 25
S 26	20 15 36	3° 4'05	23°24	4° 1	4°44	17°13	19°32	0°45	8°10	5°27	9° 7	24°19	25°46	8°50	12°34	S 26
M27	20 19 33	4° 1'30	8 Ω 32	6° 5	5°56	17°52	19°29	0°41	8°14	5°26	9° 9	24°12	25°42	8°57	12°42	M27
T 28	20 23 29	4°58'55	23°26	8° 8	7° 8	18°31	19°25	0°37	8°17	5°25	9°10	24° 7	25°39	9° 4	12°49	T 28
W29	20 27 26	5°56'21	7 m 59	10°10	8°21	19°10	19°22	0°33	8°20	5°25	9°12	24° 4	25°36	9°10	12°57	W29
T 30	20 31 22	6°53'48	22° 7	12°11	9°33	19°49	19°19	0°29	8°24	5°24	9°14	24°D 2	25°33	<u>9</u> °17	13° 4	T 30
F 31	20 35 19	7 Ω 51'15	5 ≏ 46	$14\Omega11$	109945	209528	19 × 16	0 ∺ 25	8 95 27	5 Υ 23	9Ω16	24 Mp 3	25 m 30	9 る 24	13 m 12	F 31

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W 1 T 2 F 3	23n 9 23 5 23 1	5 27 1	7 20n31 7 20 49 4 21 8	2 14 1	9 45 1 38	24 10 0	n42 22 42 22 43 22	53 0 20	12 18	1 35	23n36 23 36 23 36	0 18	0n50 1 s2 0 50 1 2 0 50 1 2	9 24 38 6 4	2 1 28	1n10 1 11 1 12	18s16 18 15 18 15	-	s24 24 23
S 4	22 56		3 21 26				43 22				23 36		0 50 1 2				18 15	3 45 4	- 1
S 5 M 6 T 7 W 8 T 9	22 38 22 32	10 20 3 1 13 20 3 5 15 42 4 3	17 21 43 12 22 0 57 22 16 31 22 31 53 22 45	1 23 2 1 10 2 0 57 2	0 38 1 30 0 50 1 27 1 1 1 25	24 9 0 24 8 0 24 7 0	44 22 44 22 45 22 45 22 46 22	52 0 20 51 0 20 51 0 19	12 20 12 21 12 22 12 23 12 25	1 36 1 36 1 36	23 36 23 35 23 35 23 35 23 35	0 18 0 18 0 18	0 50 1 2 0 50 1 2 0 50 1 2 0 50 1 2 0 50 1 2	9 24 37 6 4 9 24 36 6 4 9 24 36 6 4	2 1 30 2 1 31 2 1 34	1 16		3 38 4	
F 10 S 11	22 17	18 18 5	2 22 57	0 31 2	1 22 1 20	24 4 0	46 22 47 22	51 0 19	12 26 12 27	1 37	23 35 23 34	0 18	0 50 1 2 0 50 1 2	9 24 35 6 4	2 1 42		18 14	3 35 4	19 18
S 12 M13 T 14 W15 T 16 F 17 S 18	22 2	17 43 4 4 16 15 4 11 16 2 4 4 16 0 3	23 16 11 23 22 30 23 27	0 6 2 0n 5 2 0 17 2 0 28 2 0 38 2 0 48 2	1 41 1 15 1 50 1 12 1 58 1 10 2 5 1 7 2 12 1 5 2 18 1 2	24 1 0 23 59 0 23 57 0 23 54 0 23 52 0 23 49 0	47 22 48 22 48 22 48 22 49 22 49 22 50 22	50 0 19 50 0 19 50 0 18 49 0 18 49 0 18	12 28 12 29 12 30 12 31	1 37 1 37 1 37 1 37 1 38 1 38	23 34 23 34 23 34	0 18 0 18 0 18 0 18 0 18 0 18	0 50 1 2 0 50 1 2 0 50 1 2 0 50 1 2 0 49 1 3 0 49 1 3 0 49 1 3	9 24 34 6 4 9 24 33 6 4 9 24 33 6 4 9 24 33 6 4 0 24 32 6 4 0 24 32 6 4	2 1 52 2 1 56 2 2 0 2 2 2 2 2 2 2 2 4 2 2 5	1 24 1 25 1 26 1 27 1 29 1 30	18 14 18 13 18 13 18 13 18 13	3 31 4 3 29 4 3 27 4 3 25 4 3 23 4 3 21 4	17 17 16 16 15 14 14
S 19 M20 T 21 W22 T 23 F 24 S 25	20 8 19 56	7 41 2 4 11 22 3 3 14 32 4 2 16 54 4 5 18 12 5	37 23 10 11 22 59 38 22 44 23 22 28 54 22 8 6 21 47 57 21 23	1 13 2 1 20 2 1 26 2 1 31 2 1 36 2	2 33 0 54 2 37 0 51 2 40 0 48 2 43 0 45 2 45 0 43	23 39 0 23 36 0 23 32 0 23 28 0 23 24 0	50 22 51 22 51 22 52 22 52 22 52 22 53 22	48 0 17 48 0 17 48 0 17 48 0 17 48 0 17	12 37 12 38 12 39 12 41 12 42 12 44 12 45	1 38 1 39 1 39 1 39 1 39	23 33 23 32 23 32	0 18 0 18 0 18 0 18 0 18		0 24 30 6 4 0 24 30 6 4 0 24 29 6 4	2 2 4 2 2 4 2 2 5 2 2 7 2 2 10	1 34 1 35 1 36 1 37 1 39	18 12 18 12 18 11	3 14 4 3 12 4 3 10 4 3 8 4 3 5 4	
S 26 M27 T 28 W29 T 30 F 31	19 30 19 17 19 3 18 49 18 35 18n20	14 37 3 4 11 15 2 3 7 16 1 2 2 58 0 1	28 20 56 40 20 28 37 19 58 26 19 26 10 18 52 3 18n17	1 44 2 1 46 2 1 47 2 1 47 2	2 46 0 34 2 46 0 31 2 44 0 29 2 42 0 26	23 10 0 23 5 0 23 0 0 22 55 0	53 22 54 22 54 22 55 22 55 22 155 22	47 0 16 47 0 16 47 0 16 47 0 16	12 46 12 48 12 49 12 51 12 52 12 s54	1 40 1 40 1 40 1 40	23 32 23 31 23 31 23 31 23 31 23n31	0 18 0 18 0 18 0 18 0 18 0 18	0 47 1 3 0 47 1 3 0 46 1 3 0 46 1 3	0 24 27 6 4 0 24 26 6 4	2 2 19 2 2 21 2 2 22 3 2 22	1 43 1 44 1 45 1 46	18 11 18 10 18 10 18 10 18 10 18 10	2 58 4	10 9 9 8 8 8

Julian Day Number = 2341788.5, Delta T = 14.46 sec Ecliptic obliquity = $23^{\circ}28'32$, Nutation = - $0^{\circ}00'00$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}32'44$, Lahiri = $19^{\circ}39'44$ Greg. Calendar

AUGUST 1699 GC 00:00 UT

Audi	JJ: 103	Juc													00.0	0.
Day	Sid.t	0)	ğ	φ	ð	4	ħ)f(#	В	S.	Ω	Ç	ķ	Day
S 1	20 39 15	8 Ω 48'44	18 ≏ 59	16 N 9	11957	2195 7	19°R13	0°R21	8930	5°R23	9Ω18	24 Mp 4	25 Mg 26	9 ට 30	13 m 20	S 1
S 2	20 43 12	9°46'13	1 M 47	18° 5	13°10	21°46	19 × 10	0 ∺ 17	8°34	5 Υ 22	9°19	24° 5	25°23	9°37	13°28	S 2
M 3	20 47 8	10°43'42	14°16	20° 0	14°22	22°25	19° 8	0°13	8°37	5°21	9°21	24°R 5	25°20	9°44	13°36	M 3
T 4	20 51 5	11°41'13	26°29	21°54	15°35	23° 4	19° 6	0° 9	8°40	5°20	9°23	24° 4	25°17	9°51	13°43	T 4
W 5	20 55 2	12°38'44	8 × 31	23°46	16°47 18° 0	23°43	19° 4	0° 5	8°43	5°20	9°25	24° 1	25°14	9°57	13°51	W 5
T 6 F 7	20 58 58 21 2 55	13°36'17 14°33'50	20°26 2 る 19	25°37 27°26	18° 0	24°22 25° 1	19° 2 19° 0	0° 1 29 ≈ 56	8°46 8°49	5°19 5°18	9°27 9°28	23°56 23°50	25°11 25° 7	10° 4 10°11	13°59 14° 7	T 6 F 7
S 8	21 6 51	15°31'24	14°11	29°13	20°25	25°40	18°59	29°52	8°52	5°17	9°30	23°44	25° 4	10°11	14°15	S 8
S 9	21 10 48	16°29'00	26° 6	0 m 59	21°38	26°18	18°57	29°48	8°55	5°16	9°32	23°37	25° 1	10°24	14°24	S 9
M10	21 14 44	17°26'36	8≈ 7	2°44	22°51	26°57	18°56	29°43	8°59	5°15	9°34	23°30	24°58	10°31	14°32	M10
T 11	21 18 41	18°24'14	20°13	4°27	24° 3	27°36	18°55	29°39	9° 2	5°14	9°36	23°25	24°55	10°38	14°40	T 11
W12	21 22 37	19°21'53	2 ∺ 28	6° 9	25°16	28°14	18°55	29°35	9° 4	5°13	9°37	23°22	24°52	10°44	14°48	W12
T 13	21 26 34	20°19'33	14°51	7°49	26°29	28°53	18°54	29°30	9° 7	5°12	9°39	23°20	24°48	10°51	14°56	T 13
F 14	21 30 31	21°17'15	27°26 10 ° 12	9°27 11° 5	27°42	29°32 0 Ω 10	18°54	29°26	9°10 9°13	5°11 5°10	9°41	23°D20	24°45 24°42	10°58 11° 5	15° 5 15°13	F 14 S 15
S 15	21 34 27	22°14'58			28°55		18°53	29°21			9°43	23°21		_		
S 16	21 38 24	23°12'43	23°13	12°40	0Ω 8	0°49	18°D53	29°17	9°16	5° 9	9°44	23°22	24°39	11°11	15°21	S 16
M17	21 42 20	24°10'29	6 8 31	14°15	1°21	1°27	18°54	29°12	9°19	5° 8 5° 6	9°46	23°24	24°36	11°18	15°30	M17
T 18 W19	21 46 17 21 50 13	25° 8'18 26° 6'08	20° 6 4 Ⅱ 1	15°48 17°19	2°35 3°48	2° 6 2°44	18°54 18°55	29° 8 29° 3	9°22 9°24	5° 6 5° 5	9°48 9°50	23°R25 23°25	24°32 24°29	11°25 11°31	15°38 15°46	T 18 W19
T 20	21 54 10	20° 0'08	18°14	18°50	5° 1	3°23	18°55	28°59	9°27	5° 4	9°51	23°23	24°26	11°38	15°55	T 20
F 21	21 58 6	28° 1'53	29544	20°18	6°14	4° 1	18°56	28°54	9°30	5° 3	9°53	23°21	24°23	11°45	16° 3	F 21
S 22	22 2 3	28°59'49	17°27	21°46	7°28	4°39	18°57	28°50	9°33	5° 1	9°55	23°18	24°20	11°52	16°12	S 22
S 23	22 6 0	29°57'46	2 Ω 16	23°11	8°41	5°18	18°59	28°45	9°35	5° 0	9°56	23°15	24°17	11°58	16°20	S 23
M24	22 9 56	0 m 55'45	17° 4	24°36	9°55	5°56	19° 0	28°40	9°38	4°59	9°58	23°12	24°13	12° 5	16°29	M24
T 25	22 13 53	1°53'46	1 mp 44	25°59	11° 8	6°34	19° 2	28°36	9°40	4°58	10° 0	23°10	24°10	12°12	16°37	T 25
W26	22 17 49 22 21 46	2°51'48	16° 9 0 ≙ 12	27°20 28°40	12°22 13°35	7°13 7°51	19° 4 19° 6	28°31 28°27	9°43 9°45	4°56 4°55	10° 2 10° 3	23° 9 23°D 9	24° 7 24° 4	12°18 12°25	16°46 16°55	W26 T 27
T 27 F 28	22 21 46 22 25 42	3°49'52 4°47'57	13°52	28°40 29°58	13°33 14°49	8°29	19° 6 19° 8	28°27 28°22	9°48	4°54	10° 3 10° 5	23° 9	24° 4 24° 1	12°32	16°55	F 28
S 29	22 29 39	5°46'03	27° 8	1 º 14	16° 3	9° 7	19°10	28°18	9°50	4°52	10° 7	23°11	23°58	12°39	17°12	S 29
S 30	22 33 35	6°44'12	10 M 0	2°29	17°16	9°45	19°13	28°13	9°52	4°51	10° 8	23°12	23°54	12°45	17°21	S 30
M31	22 37 32	7 m 42'21	22 M 32	3 ≏ 42	18 Ω 30	10 Ω 23	19 × 16	28≈ 9	9 9 55	4 Ƴ 49	10 Ω 10	23 m 13	23 m 51	12 る 52	17 m 29	M31

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S 1	18n 5	5 s 2 6	2n11	17n41	1n45	22n36	0 s 2 0	22n44	0n56	22 s47	0n15	12 s56	1 s40	23n30	0n18	0n45	1 s30	24n25	6n43	2n22	1n49	18s 9	2n46	4s 7
S 2	17 50	9 9	3 10	17 4	1 43	22 32	0 17	22 38	0 56	22 47	0 15	12 57	1 40	23 30	0 18	0 45	1 30	24 25	6 43	2 21	1 50	18 9	2 43	4 6
M 3	17 34	12 21	3 58	16 26	1 41	22 28	0 14	22 32	0 57	22 47	0 15	12 59	1 41	23 30	0 18	0 45	1 30	24 24	6 43	2 21	1 51	18 9	2 41	4 6
T 4	17 18	14 57		15 46	1 38		0 11	-		22 47	0 15		1 41	23 30		0 44	1 31	24 24	6 43	2 22	1 53	18 9	2 38	4 5
W 5	17 2	16 51	4 58	15 6	1 34		0 9	-		22 47	0 15		1 41	23 30		0 44	1 31	24 23	6 43	2 23	1 54		2 36	4 5
T 6	16 46	18 0		14 25			0 6			22 47	0 15		1 41	23 30		0 44	1 31	24 23	6 43	2 25	1 55	18 8	2 33	4 4
F 7		-		13 44	1 26		0 3			22 47	0 14		1 41			0 43	-	24 22	6 43	2 27	1 56	18 8	2 30	4 4
S 8	16 12	17 54	4 50	13 2	1 21	21 55	0 0	22 0	0 59	22 47	0 14	13 7	1 41	23 29	0 19	0 43	1 31	24 22	6 43	2 30	1 58	18 7	2 28	4 3
S 9	15 55	16 40	4 22	12 20	1 16	21 46	0n 2	21 54	0 59	22 47	0 14	13 8	1 41	23 29	0 19	0 42	1 31	24 22	6 43	2 32	1 59	18 7	2 25	4 3
M10	15 38	14 42	3 41	11 37	1 11	21 37	0 5	21 46	1 0	22 47	0 14	13 10	1 41	23 29	0 19	0 42	1 31	24 21	6 43	2 35	2 0	18 7	2 22	4 2
T 11	15 20	12 4	2 51	10 54	1 5		0 8		1 0	22 47	0 14	13 12	1 41	23 29	0 19	0 42	1 31	24 21	6 43	2 37	2 1	18 7	2 20	4 2
W12	15 2	8 53	1 51	10 11	0 59	21 17	0 11		1 0	22 47	0 14	13 13	1 42	-	0 19	0 41	1 31	24 20	6 44	2 38	2 3	18 6	2 17	4 2
T 13	14 44	5 16	0 46		0 52	-	0 13			22 47	0 13		1 42	-		0 41	1 31	24 20	6 44	2 39	2 4	18 6	2 14	4 1
F 14	14 26	1 22	0 s22	8 44		20 55	0 16			22 47		13 17	1 42			0 40	1 31	24 20	6 44	2 39	2 5		2 11	4 1
S 15	14 7	2n39	1 31	8 1	0 39	20 42	0 18	21 9	1 2	22 48	0 13	13 18	1 42	23 28	0 19	0 40	1 31	24 19	6 44	2 39	2 7	18 6	2 8	4 0
S 16	13 48	6 37	2 36	7 18	0 31	20 30	0 21	21 1	1 2	22 48	0 13	13 20	1 42	23 28	0 19	0 39	1 31	24 19	6 44	2 38	2 8	18 5	2 6	4 0
M17	13 29	10 20	3 35	6 35	0 24	20 16	0 24	20 53	1 2	22 48	0 13	13 22	1 42	23 28	0 19	0 39	1 31	24 19	6 44	2 38	2 9	18 5	2 3	4 0
T 18	13 10	13 35	4 23	5 51	0 16	20 2	0 26	20 45	1 3	22 48	0 13	13 23	1 42	23 27	0 19	0 38	1 31	24 18	6 44	2 37	2 10	18 5	2 0	3 59
W19	12 50	16 8	4 56	5 9	0 8	19 48		20 36	1 3	22 48	0 12	13 25	1 42	23 27	0 19	0 38	1 31	24 18	6 44	2 37	2 12		1 57	3 59
T 20	12 30	17 46	5 13	4 26	0 0			20 28		22 49		13 27		23 27		0 37		24 17	6 44	2 38	2 13		1 54	3 58
F 21		18 17	5 10	-		19 17		20 19		22 49		13 28		23 27	0 19	0 37	1 31	24 17	6 45	2 39	2 14		1 51	3 58
S 22	11 50	17 36	4 47	3 1	0 16	19 1	0 36	20 10	1 4	22 49	0 12	13 30	1 42	23 27	0 19	0 36	1 31	24 17	6 45	2 40	2 15	18 3	1 48	3 58
S 23	11 30	15 43	4 4	2 20	0 25	18 44	0 38	20 1	1 5	22 49	0 12	13 32	1 43	23 26	0 19	0 36	1 31	24 16	6 45	2 41	2 17	18 3	1 45	3 57
M24	11 10	12 47	3 6	1 38	0 33	18 27	0 41	19 52	1 5	22 50	0 12	13 33	1 43	23 26	0 19	0 35	1 31	24 16	6 45	2 42	2 18	18 3	1 42	3 57
T 25	10 49	9 5	1 55	0 58	0 42	18 9	0 43	19 43	1 5	22 50	0 11	13 35	1 43	23 26	0 19	0 35	1 31	24 16	6 45	2 43	2 19	18 2	1 39	3 57
W26	10 28	4 53	0 39	0 17	0 51	17 50	0 45	19 34	1 6	22 50	0 11	13 37	1 43	23 26	0 19	0 34	1 31	24 15	6 45	2 44	2 20	18 2	1 36	3 56
T 27	10 7	0 31	0n39	0 s23	0 59			19 24		22 51	0 11		1 43			0 33	1 32		6 45	2 44	2 22	18 2	1 33	3 56
F 28	9 46	3 s46	1 52	1 2	1 8		0 49	-		22 51	0 11	13 40	1 43			0 33	1 32		6 46	2 43	2 23			3 56
S 29	9 25	7 43	2 57	1 40	1 17	16 52	0 51	19 5	1 7	22 51	0 11	13 41	1 43	23 26	0 19	0 32	1 32	24 14	6 46	2 43	2 24	18 1	1 27	3 55
S 30	9 3	11 11	3 51	2 18	1 26	16 32	0 53	18 55	1 7	22 52	0 11	13 43	1 43	23 25	0 19	0 32	1 32	24 14	6 46	2 42	2 25	18 1	1 24	3 55
M31	8n42	14s 3	4n32	2 s 5 6	1 s35	16n11	0n55	18n45	1n 8	22 s52	0n11	13 s45	1 s43	23n25	0n19	0n31	1 s32	24n14	6n46	2n42	2n27	18s 1	1n21	$3\mathrm{s}55$

Julian Day Number = 2341819.5, Delta T = 14.43 sec Ecliptic obliquity = $23^{\circ}28'33$, Nutation = - $0^{\circ}00'00$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}32'48$, Lahiri = $19^{\circ}39'48$ Greg. Calendar

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SEPTEMBER 1699 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)វ(¥	Р	ß	Ω	Ç	ę,	Day
T 1	22 41 29	8 Mp 40'33	4 ₹ 48	4 Ω 53	19 Ω 44	11Ω 1	19 × 19	28°R 5	9957	4°R48	10Ω11	23°R14	23 m 48	12 る 59	17 m /38	T 1
W 2	22 45 25	9°38'45	16°51	6° 3	20°58	11°39	19°22	28≈ 0	9°59	4 Υ 46	10°13	23 m/14	23°45	13° 5	17°47	W 2
T 3	22 49 22	10°36'59	28°47	7°10	22°12	12°17	19°25	27°56	10° 1	4°45	10°15	23°13	23°42	13°12	17°55	T 3
F 4	22 53 18	11°35'15	10 궁 39	8°15	23°26	12°55	19°29	27°51	10° 4	4°43	10°16	23°12	23°38	13°19	18° 4	F 4
S 5	22 57 15	12°33'33	22°33	9°17	24°40	13°33	19°32	27°47	10° 6	4°42	10°18	23°10	23°35	13°26	18°13	S 5
S 6	23 1 11	13°31'51	4≈31	10°18	25°54	14°11	19°36	27°43	10°8	4°40	10°19	23° 9	23°32	13°32	18°22	S 6
M 7	23 5 8	14°30'12	16°37	11°15	27° 8	14°49	19°40	27°39	10°10	4°39	10°21	23° 8	23°29	13°39	18°30	M 7
T 8	23 9 4	15°28'34	28°53	12°10	28°22	15°27	19°44	27°34	10°12	4°37	10°22	23° 7	23°26	13°46	18°39	T 8
W 9	23 13 1	16°26'58	11 米 21	13° 2	29°36	16° 5	19°49	27°30	10°14	4°36	10°24	23° 6	23°23	13°52	18°48	W 9
T 10	23 16 57	17°25'24	24° 2	13°51	0 m 50	16°42	19°53	27°26	10°16	4°34	10°25	23°D 6	23°19	13°59	18°57	T 10
F 11	23 20 54	18°23'52	6 Ƴ 57	14°36	2° 4	17°20	19°58	27°22	10°17	4°33	10°27	23° 6	23°16	14° 6	19° 5	F 11
S 12	23 24 51	19°22'22	20° 5	15°18	3°18	17°58	20° 3	27°18	10°19	4°31	10°28	23° 6	23°13	14°13	19°14	S 12
S 13	23 28 47	20°20'53	3 8 27	15°56	4°32	18°35	20° 8	27°14	10°21	4°29	10°30	23° 7	23°10	14°19	19°23	S 13
M14	23 32 44	21°19'27	17° 1	16°30	5°47	19°13	20°13	27°10	10°23	4°28	10°31	23° 7	23° 7	14°26	19°32	M14
T 15	23 36 40	22°18'04	0∏48	16°59	7° 1	19°51	20°18	27° 6	10°24	4°26	10°33	23° 7	23° 3	14°33	19°41	T 15
W16	23 40 37	23°16'42	14°46	17°23	8°15	20°28	20°24	27° 2	10°26	4°25	10°34	23° 7	23° 0	14°39	19°49	W16
T 17	23 44 33	24°15'23	28°54	17°42	9°30	21° 6	20°29	26°58	10°28	4°23	10°36	23° 7	22°57	14°46	19°58	T 17
F 18	23 48 30	25°14'06	139510	17°55	10°44	21°43	20°35	26°55	10°29	4°21	10°37	23° 7	22°54	14°53	20° 7	F 18
S 19	23 52 26	26°12'52	27°31	18° 2	11°59	22°21	20°41	26°51	10°31	4°20	10°38	23° 7	22°51	15° 0	20°16	S 19
S 20	23 56 23	27°11'39	11 Ω 54	18°R 3	13°13	22°58	20°47	26°47	10°32	4°18	10°40	23° 8	22°48	15° 6	20°24	S 20
M21	0 0 20	28°10'29	26°15	17°57	14°28	23°36	20°54	26°44	10°33	4°16	10°41	23° 8	22°44	15°13	20°33	M21
T 22	0 4 16	29° 9'21	10 m 30	17°44	15°42	24°13	21° 0	26°40	10°35	4°15	10°42	23° 9	22°41	15°20	20°42	T 22
W23	0 8 13	0 ♀ 8'15	24°33	17°24	16°57	24°51	21° 7	26°37	10°36	4°13	10°43	23°R 9	22°38	15°26	20°51	W23
T 24	0 12 9	1° 7'11	8 ≏ 21	16°56	18°12	25°28	21°13	26°34	10°37	4°11	10°45	23° 8	22°35	15°33	20°59	T 24
F 25	0 16 6	2° 6'09	21°52	16°21	19°26	26° 5	21°20	26°30	10°38	4°10	10°46	23° 8	22°32	15°40	21° 8	F 25
S 26	0 20 2	3° 5'09	5 M 3	15°38	20°41	26°43	21°27	26°27	10°39	4° 8	10°47	23° 7	22°29	15°47	21°17	S 26
S 27	0 23 59	4° 4'11	17°54	14°49	21°56	27°20	21°35	26°24	10°40	4° 6	10°48	23° 5	22°25	15°53	21°25	S 27
M28	0 27 55	5° 3'15	0 ∡ 127	13°52	23°10	27°57	21°42	26°21	10°42	4° 5	10°50	23° 4	22°22	16° 0	21°34	M28
T 29	0 31 52	6° 2'21	12°44	12°51	24°25	28°34	21°49	26°18	10°42	4° 3	10°51	23° 2	22°19	1 <u>6°</u> 7	21°43	T 29
W30	0 35 49	7 ♀ 1'28	24 ×7 48	11 ≏ 45	25 M 40	29 Ω 12	21 ×7 57	26≈15	109543	4 Υ 1	$10\Omega52$	23 Mp 1	22 Mp 16	16 ට 13	21 Mp 51	W30

Day	0	D	ğ	ς)	ď	2	+	ħ	l.)į	ł(并	Е)	n	Ω	Ç	Š	
	decl	decl lat	decl la	nt decl	lat d	ecl lat	decl	lat	decl	lat	decl	lat	decl lat	decl	lat	decl	decl	decl	decl	lat
T 1	8n20	16s12 5n		1 s44 15n50	0n57 181		22 s52		13 s46		23n25			2 24n13	6n46	2n42	2n28		1n18	3 s54
W 2	7 58	17 37 5 1		1 53 15 28	0 59 18		22 53	0 10			23 25	0 19	0 30 1 3		6 46	2 42	2 29		1 15	3 54
T 3	7 36	18 13 5 1		2 1 15 6			22 53	0 10			23 25	0 19	0 29 1 3		6 47	2 42	2 30		1 12	3 54
F 4	7 14	-	-	2 10 14 43	1 3 18		22 54	0 10		1 43		0 19	0 29 1 3	_	6 47	2 42	2 32		1 8	3 54
S 5	6 51	17 3 4 3	5 49	2 19 14 20	1 5 17	53 1 9	22 54	0 10	13 52	1 43	23 25	0 19	0 28 1 3	2 24 12	6 47	2 43	2 33	17 59	1 5	3 53
S 6	6 29	15 19 3 5	8 6 20	2 27 13 57	1 6 17	43 1 10	22 54	0 10	13 54	1 43	23 24	0 19	0 27 1 3	2 24 12	6 47	2 43	2 34	17 58	1 2	3 53
M 7	6 7	12 53 3	9 6 51	2 35 13 33	1 8 17	32 1 10	22 55	0 9	13 55	1 43	23 24	0 19	0 27 1 3	2 24 12	6 47	2 44	2 36	17 58	0 59	3 53
T 8	5 44	9 51 2 1		2 44 13 9	1 9 17			0 9	,		_	0 19		2 24 11	6 47	2 44	2 37		0 56	3 52
W 9	5 21			2 51 12 44	1 11 17		22 56	0 9			_	0 19	0 25 1 3		6 48	2 45	2 38		0 53	3 52
T 10	4 59	2 27 0s		2 59 12 19	1 12 16		22 56	0 9			-	0 19	0 25 1 3		6 48	2 45	2 39		0 49	3 52
F 11	4 36	1n36 1 1		3 6 11 54	1 14 16		22 57	0 9			-	0 19	0 24 1 3		6 48	2 45		17 57	0 46	3 52
S 12	4 13	5 38 2 2	4 9 0 1	3 13 11 28	1 15 16	3/ 1 12	22 57	0 9	14 3	1 43	23 24	0 19	0 23 1 3	2 24 11	6 48	2 44	2 42	17 56	0 43	3 51
S 13	3 50	9 27 3 2	9 21 3	3 20 11 2	1 16 16	25 1 12	22 58	0 9	14 4	1 43	23 24	0 19	0 23 1 3	2 24 10	6 48	2 44	2 43	17 56	0 40	3 51
M14	3 27	12 50 4 1	7 9 40 3	3 26 10 36	1 17 16	14 1 13	22 58	0 8	14 5	1 43	23 23	0 19	0 22 1 3	2 24 10	6 48	2 44	2 44	17 55	0 37	3 51
T 15	3 4	15 34 4 5	4 9 56	3 32 10 10	1 18 16		22 59	0 8	14 7		-	0 19	0 22 1 3		6 49	2 44	2 46		0 33	3 51
W16	2 40	17 24 5 1		3 37 9 43	1 19 15		22 59	0 8	14 8		-	0 19	-	2 24 10	6 49	2 44	2 47		0 30	3 51
T 17	2 17			3 41 9 16	1 20 15			0 8	14 9		-	0 19		2 24 9	6 49	2 44	2 48		0 27	3 50
F 18	-			3 45 8 48	1 21 15			0 8	14 10		23 23	0 19		2 24 9	6 49	2 44	2 49		0 24	3 50
S 19	1 30	16 24 4 2	2 10 35	3 47 8 21	1 22 15	15 1 14	23 1	0 8	14 12	1 43	23 23	0 19	0 19 1 3	2 24 9	6 49	2 44	2 51	17 54	0 20	3 50
S 20	1 7	13 54 3 2	9 10 37	3 49 7 53	1 23 15	3 1 15	23 2	0 8	14 13	1 43	23 23	0 19	0 18 1 3	2 24 9	6 50	2 44	2 52	17 53	0 17	3 50
M21	0 44	10 32 2 2	4 10 35	3 49 7 25	1 24 14	-		0 8	14 14			0 19	0 18 1 3	2 24 9	6 50	2 44		17 53	0 14	3 49
T 22	0 20	6 34 1 1		3 49 6 56	1 24 14			0 7	-			0 20		2 24 9	6 50	2 44		17 52	0 11	3 49
W23	0s 3	2 17 On		3 47 6 28	1 25 14			0 7	-					2 24 8	6 50	2 44	2 56		0 7	3 49
T 24	0 27	2s 3 1 2		3 43 5 59	1 26 14			0 7	-		23 23	0 20		2 24 8	6 51	2 44	2 57		0 4	3 49
F 25	0 50	6 10 2 3		3 38 5 30	1 26 14	2 1 16		0 7	-		_	0 20		2 24 8	6 51	2 44	2 58		0 1	3 49
S 26	1 14	9 54 3 3	2 9 24 1	3 31 5 1	1 26 13	50 1 17	23 5	0 7	14 20	1 43	23 22	0 20	0 14 1 3	2 24 8	6 51	2 44	2 59	17 51	0s 2	3 49
S 27	1 37	13 3 4 1	8 57	3 22 4 32	1 27 13	37 1 17	23 6	0 7	14 21	1 43	23 22	0 20	0 14 1 3	2 24 8	6 51	2 45	3 1	17 50	0 6	3 48
M28	2 1	15 31 4 5		3 11 4 3	1 27 13			0 7		1 43				2 24 8	6 51	2 46	3 2		0 9	3 48
T 29		17 13 5 1		2 58 3 33	1 27 13			0 6	_		23 22		0 12 1 3	-	6 52	2 46	3 3		0 12	3 48
W30	2 s48	18 s 7 5 n 1	5 7s10 2	2 s44 3n 4	1n27 121	n59 1n18	23 s 8	0n 6	14 s24	1 s43	23n22	0n20	0n12 1 s3	2 24n 7	6n52	2n46	3n 4	17 s49	0s15	3 s48

Julian Day Number = 2341850.5, Delta T = 14.40 sec Ecliptic obliquity = 23°28'33, Nutation = -0°00'01, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^\circ32'52$, Lahiri = $19^\circ39'53$ Greg. Calendar

OCTOBER 1699 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	♂	24	ħ)∤(¥	Р	R	Ω	Ç	ķ	Day
																,
T 1	0 39 45	8 ♀ 0'37	6 공 45	10°R36	26 m 55	29 Ω 49	22 🗷 5	26°R12	10944	4°R 0 3 Υ 58	10053	23°D 1	22 m 13	16 ට 20	22 m) 0	T 1
F 2	0 43 42	8°59'49	18°37	9 ≙ 26	28°10	0 Mp 26	22°13	26 ≈ 10	10°45		10°54	23 m 1	22° 9	16°27	22° 9	F 2
S 3	0 47 38	9°59'01	0≈31	8°16	29°25	1° 3	22°21	26° 7	10°46	3°56	10°55	23° 2	22° 6	16°33	22°17	S 3
S 4	0 51 35	10°58'16	12°30	7° 9	0 ₽ 39	1°40	22°29	26° 5	10°47	3°55	10°56	23° 3	22° 3	16°40	22°26	S 4
M 5	0 55 31	11°57'33	24°39	6° 6	1°54	2°17	22°37	26° 2	10°47	3°53	10°57	23° 5	22° 0	16°47	22°34	M 5
T 6	0 59 28	12°56'51	7) € 2	5°10	3° 9	2°54	22°46	26° 0	10°48	3°51	10°58	23° 6	21°57	16°54	22°43	T 6
W 7	1 3 24	13°56'11	19°42	4°22	4°24	3°31	22°54	25°57	10°48	3°50	10°59	23°R 7	21°54	17° 0	22°51	W 7
T 8	1 7 21	14°55'33	2 Υ 39	3°42	5°39	4° 8	23° 3	25°55	10°49	3°48	11° 0	23° 7	21°50	17° 7	23° 0	T 8
F 9	1 11 17	15°54'57	15°56	3°13	6°54	4°45	23°12	25°53	10°49	3°46	11° 1	23° 5	21°47	17°14	23° 8	F 9
S 10	1 15 14	16°54'23	29°30	2°55	8° 9	5°21	23°21	25°51	10°50	3°45	11° 2	23° 3	21°44	17°20	23°16	S 10
S 11	1 19 11	17°53'52	13 8 19	2°D47	9°24	5°58	23°30	25°49	10°50	3°43	11° 3	22°59	21°41	17°27	23°25	S 11
M12	1 23 7	18°53'22	27°20	2°51	10°39	6°35	23°39	25°47	10°50	3°42	11° 4	22°56	21°38	17°34	23°33	M12
T 13	1 27 4	19°52'55	11 II 29	3° 5	11°54	7°12	23°48	25°46	10°50	3°40	11° 5	22°52	21°34	17°41	23°41	T 13
W14	131 0	20°52'30	25°42	3°30	13° 9	7°49	23°57	25°44	10°51	3°38	11° 5	22°49	21°31	17°47	23°50	W14
T 15	1 34 57	21°52'08	9957	4° 4	14°24	8°25	24° 7	25°42	10°51	3°37	11° 6	22°47	21°28	17°54	23°58	T 15
F 16	1 38 53	22°51'47	24° 9	4°48	15°40	9° 2	24°17	25°41	10°51	3°35	11° 7	22°D46	21°25	18° 1	24° 6	F 16
S 17	1 42 50	23°51'30	8 Ω 16	5°39	16°55	9°38	24°26	25°40	10°R51	3°34	11°8	22°47	21°22	18° 7	24°14	S 17
S 18	1 46 46	24°51'14	22°18	6°38	18°10	10°15	24°36	25°38	10°51	3°32	11°8	22°49	21°19	18°14	24°22	S 18
M19	1 50 43	25°51'00	6 m 13	7°43	19°25	10°52	24°46	25°37	10°51	3°31	11° 9	22°50	21°15	18°21	24°30	M19
T 20	1 54 40	26°50'49	20° 0	8°54	20°40	11°28	24°56	25°36	10°50	3°29	11°10	22°R51	21°12	18°28	24°38	T 20
W21	1 58 36	27°50'40	3 ≏ 36	10° 9	21°55	12° 5	25° 7	25°35	10°50	3°28	11°10	22°50	21° 9	18°34	24°46	W21
T 22	2 2 3 3	28°50'33	17° 2	11°29	23°11	12°41	25°17	25°34	10°50	3°26	11°11	22°48	21° 6	18°41	24°54	T 22
F 23	2 6 29	29°50'28	0 M .14	12°53	24°26	13°17	25°27	25°34	10°50	3°25	11°11	22°44	21° 3	18°48	25° 2	F 23
S 24	2 10 26	0ML50'25	13°12	14°19	25°41	13°54	25°38	25°33	10°49	3°23	11°12	22°38	21° 0	18°54	25°10	S 24
S 25	2 14 22	1°50'24	25°55	15°48	26°56	14°30	25°48	25°32	10°49	3°22	11°12	22°31	20°56	19° 1	25°18	S 25
M26	2 18 19	2°50'25	8 ₹ 23	17°19	28°12	15° 6	25°59	25°32	10°48	3°21	11°13	22°24	20°53	19°8	25°26	M26
T 27	2 22 15	3°50'27	20°38	18°52	29°27	15°43	26°10	25°32	10°48	3°19	11°13	22°17	20°50	19°14	25°33	T 27
W28	2 26 12	4°50'32	2 ප් 41	20°26	0 M .42	16°19	26°21	25°31	10°47	3°18	11°14	22°11	20°47	19°21	25°41	W28
T 29	2 30 9	5°50'38	14°36	22° 1	1°58	16°55	26°32	25°31	10°47	3°16	11°14	22° 6	20°44	19°28	25°48	T 29
F 30	2 34 5	6°50'45	26°27	23°37	3°13	17°31	26°43	25°D31	10°46	3°15	11°15	22° 4	20°40	19°35	25°56	F 30
S 31	2 38 2	7 M 50'54	8 ≈ 19	25 ≏ 14	4 M 28	18 m) 7	26 ₹ 54	25≈31	109945	3 Υ 14	11 Ω 15	22°D 3	20 m 37	19 ප් 41	26Mp 3	S 31

Day	0	D	ğ	·	ď	4	ħ)∤(¥	Р	n	v t	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl lat
T 1 F 2 S 3	3 s11 3 34 3 58		6s28 2s2 5 44 2 10 4 59 1 5	0 2 4 1 27	12 34 1 18		14 25 1 43	23n22 0n20 23 22 0 20 23 22 0 20	0 10 1 32		2 47	3n 6 17s49 3 7 17 48 3 8 17 48	0s19 3s48 0 22 3 48 0 25 3 48
S 4 M 5 T 6 W 7 T 8	4 21 4 44 5 7 5 30 5 53	7 35 1 28 3 48 0 19 0n15 0s52	3 30 1 10 2 49 0 50 2 11 0 29 1 37 0 10	0 0 34 1 27 0 0 4 1 27 9 0s26 1 26 0 0 56 1 26	11 55 1 19 11 42 1 20 11 29 1 20 11 15 1 20	23 10 0 6 23 10 0 6 23 11 0 6 23 12 0 5 23 12 0 5	14 28 1 42 14 29 1 42 14 29 1 42 14 30 1 42	23 22 0 20 23 22 0 20 23 22 0 20 23 22 0 20	0 8 1 32 0 8 1 32 0 7 1 32 0 6 1 32	24 7 6 53 24 7 6 53 24 7 6 54	2 45 2 44 2 44 2 44	3 9 17 47 3 11 17 47 3 12 17 46 3 13 17 46 3 14 17 46	0 28 3 47 0 32 3 47 0 35 3 47 0 38 3 47 0 41 3 47
F 9 S 10 S 11	6 16 6 39 7 2		0 45 0 2	7 1 56 1 25	10 49 1 21	23 13 0 5 23 13 0 5 23 14 0 5	14 31 1 42	23 22 0 20 23 22 0 20 23 22 0 20	0 5 1 32	24 7 6 54	2 46	3 16 17 45 3 17 17 45 3 18 17 44	0 45 3 47 0 48 3 47 0 51 3 47
M12 T 13 W14 T 15 F 16 S 17	7 25 7 47 8 10 8 32	15 0 4 43 17 7 5 7 18 12 5 13 18 8 4 59 16 55 4 28		8 2 57 1 24 2 3 27 1 23 4 3 57 1 22 4 4 26 1 21 2 4 56 1 20	10 22 1 21 10 9 1 22 9 55 1 22 9 42 1 22 9 28 1 23	23 15 0 5 23 15 0 5 23 16 0 5 23 16 0 5	14 32 1 42 14 33 1 42 14 33 1 42 14 34 1 42 14 34 1 41	23 22 0 20 23 22 0 20 23 22 0 20 23 22 0 20	0 4 1 32 0 3 1 32 0 2 1 32 0 2 1 32 0 1 1 32	24 7 6 55 24 7 6 55 24 7 6 55 24 7 6 55 24 7 6 56	2 49 2 50 2 51 2 52 2 52	3 20 17 44 3 21 17 43 3 22 17 43 3 23 17 42 3 25 17 42 3 26 17 41	0 54 3 47 0 58 3 47 1 1 3 47 1 4 3 47 1 7 3 46 1 10 3 46
S 18 M19 T 20 W21 T 22 F 23 S 24	9 38 10 0 10 22 10 43 11 5 11 26 11 47	7 51 1 30 3 44 0 16 0 s33 0n58 4 44 2 8	1 39 2 3 2 7 2 3 2 37 2 6 3 10 2	5 5 56 1 18 0 6 25 1 17 3 6 55 1 16 5 7 24 1 15 6 7 53 1 14 6 8 22 1 12 5 8 51 1 11	8 48 1 24 8 34 1 24 8 20 1 24 8 7 1 24 7 53 1 25	23 19 0 4 23 20 0 4	14 35 1 41 14 35 1 41 14 36 1 41 14 36 1 41 14 36 1 41	23 22 0 20 23 22 0 20 23 22 0 20	0 1 1 32 0 2 1 32 0 2 1 32 0 3 1 32	24 7 6 56 24 7 6 57 24 7 6 57 24 7 6 57 24 7 6 58	2 51 2 51 2 51 2 52 2 53	3 27 17 41 3 28 17 40 3 30 17 40 3 31 17 39 3 32 17 39 3 33 17 39 3 35 17 38	1 13 3 46 1 17 3 46 1 20 3 46 1 23 3 46 1 26 3 46 1 29 3 46 1 32 3 46
S 25 M26 T 27 W28 T 29 F 30 S 31	12 8 12 29 12 49 13 9 13 29 13 49 14s 9	16 48 5 0 18 0 5 9 18 23 5 4 17 56 4 46 16 43 4 16	4 57 2 5 35 1 53 6 13 1 53 6 52 1 5 7 32 1 4	5 10 43 1 5 11 11 11 1 3 7 11 38 1 2	7 11 1 26 6 58 1 26 6 44 1 26 6 30 1 26 6 16 1 27	23 21 0 3 23 22 0 3 23 22 0 3 23 22 0 3 23 22 0 3 23 23 0 3 23 23 0 3 23 23 0 3 23 24 0n 3	14 36 1 41 14 36 1 40 14 36 1 40 14 36 1 40 14 36 1 40	23 22 0 20	0 4 1 32 0 5 1 32	24 8 6 58 24 8 6 59 24 8 6 59 24 8 6 59 24 8 6 59	3 1 3 4 3 6 3 8 3 9	3 36 17 38 3 37 17 37 3 38 17 37 3 40 17 36 3 41 17 36 3 42 17 35 3n43 17s34	1 35 3 46 1 38 3 46 1 41 3 46 1 44 3 46 1 47 3 46 1 50 3 46 1 s53 3 s46

Julian Day Number = 2341880.5, Delta T = 14.37 sec Ecliptic obliquity = $23^{\circ}28'33$, Nutation = - $0^{\circ}00'03$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}32'56$, Lahiri = $19^{\circ}39'57$ Greg. Calendar

NOVEMBER 1699 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ)∤(¥	Р	ß	v	Ç	Ŷ,	Day
S 1	2 41 58	8ML51'05	20≈16	26 ₽ 51	5 M .44	18 m /43	27 ×7 5	25≈31	10°R44	3°R13	11 Ω 15	22 m) 4	20 m 34	19 る 48	26 m 11	S 1
M 2	2 45 55	9°51'17	2) 24	28°28	6°59	19°19	27°17	25°32	109544	3 Υ 11	11°16	22° 5	20°31	19°55	26°18	M 2
T 3	2 49 51	10°51'30	14°48	OM 6	8°14	19°55	27°28	25°32	10°43	3°10	11°16	22° 6	20°28	20° 1	26°26	T 3
W 4	2 53 48	11°51'46	27°32	1°43	9°30	20°31	27°40	25°33	10°42	3° 9	11°16	22°R 6	20°25	20° 8	26°33	W 4
T 5	2 57 44	12°52'02	10 Y 39	3°21	10°45	21° 7	27°51	25°33	10°41	3° 8	11°16	22° 5	20°21	20°15	26°40	T 5
F 6	3 1 41	13°52'21	24°11	4°58	12° 0	21°43	28° 3	25°34	10°40	3° 6	11°17	22° 1	20°18	20°22	26°47	F 6
S 7	3 5 38	14°52'41	8 8 6	6°36	13°16	22°18	28°15	25°35	10°39	3° 5	11°17	21°54	20°15	20°28	26°54	S 7
S 8	3 9 34	15°53'02	22°22	8°13	14°31	22°54	28°26	25°36	10°37	3° 4	11°17	21°46	20°12	20°35	27° 1	S 8
M 9	3 13 31	16°53'26	6 Ⅱ 53	9°50	15°46	23°30	28°38	25°37	10°36	3° 3	11°17	21°37	20° 9	20°42	27° 8	M 9
T 10	3 17 27	17°53'51	21°31	11°27	17° 2	24° 6	28°50	25°38	10°35	3° 2	11°17	21°28	20° 6	20°48	27°15	T 10
W11	3 21 24	18°54'18	69910	13° 4	18°17	24°41	29° 2	25°39	10°34	3° 1	11°17	21°20	20° 2	20°55	27°22	W11
T 12	3 25 20	19°54'47	20°42	14°40	19°32	25°17	29°15	25°40	10°32	3° 0	11°R17	21°15	19°59	21° 2	27°28	T 12
F 13	3 29 17	20°55'17	5 Ω 4	16°16	20°48	25°52	29°27	25°42	10°31	2°59	11°17	21°11	19°56	21° 8	27°35	F 13
S 14	3 33 13	21°55'50	19°11	17°52	22° 3	26°28	29°39	25°43	10°30	2°58	11°17	21°D10	19°53	21°15	27°42	S 14
S 15	3 37 10	22°56'24	3 Mg 4	19°28	23°19	27° 3	29°51	25°45	10°28	2°57	11°17	21°10	19°50	21°22	27°48	S 15
M16	3 41 7	23°57'00	16°43	21° 4	24°34	27°38	0중 4	25°47	10°27	2°56	11°17	21°R11	19°46	21°29	27°54	M16
T 17	3 45 3	24°57'38	0 ⊽ 8	22°39	25°50	28°14	0°16	25°48	10°25	2°55	11°17	21°11	19°43	21°35	28° 1	T 17
W18	3 49 0	25°58'18	13°20	24°14	27° 5	28°49	0°29	25°50	10°23	2°54	11°17	21° 9	19°40	21°42	28° 7	W18
T 19	3 52 56	26°58'59	26°22	25°49	28°20	29°24	0°41	25°52	10°22	2°53	11°16	21° 4	19°37	21°49	28°13	T 19
F 20	3 56 53	27°59'41	9 m .13	27°24	29°36	29°59	0°54	25°55	10°20	2°53	11°16	20°56	19°34	21°55	28°19	F 20
S 21	4 0 49	29° 0'26	21°53	28°59	0 才 51	0 ჲ 34	1° 7	25°57	10°18	2°52	11°16	20°45	19°31	22° 2	28°25	S 21
S 22	4 4 46	0 才 1'11	4 ₹ 22	0 ∡ 33	2° 7	1° 9	1°20	25°59	10°17	2°51	11°16	20°33	19°27	22° 9	28°31	S 22
M23	4 8 42	1° 1'58	16°40	2° 8	3°22	1°44	1°33	26° 2	10°15	2°50	11°15	20°19	19°24	22°15	28°37	M23
T 24	4 12 39	2° 2'47	28°49	3°42	4°38	2°19	1°45	26° 4	10°13	2°50	11°15	20° 6	19°21	22°22	28°43	T 24
W25	4 16 36	3° 3'36	10 る 48	5°16	5°53	2°54	1°58	26° 7	10°11	2°49	11°15	19°54	19°18	22°29	28°49	W25
T 26	4 20 32	4° 4'26	22°41	6°50	7° 9	3°29	2°11	26° 9	10° 9	2°49	11°14	19°44	19°15	22°36	28°54	T 26
F 27	4 24 29	5° 5'18	4≈30	8°24	8°24	4° 4	2°24	26°12	10° 7	2°48	11°14	19°38	19°12	22°42	29° 0	F 27
S 28	4 28 25	6° 6'10	16°19	9°58	9°39	4°38	2°38	26°15	10° 5	2°47	11°13	19°33	19° 8	22°49	29° 5	S 28
S 29	4 32 22	7° 7'03	28°13	11°32	10°55	5°13	<u>2°51</u>	26°18	10° 3	2°47	11°13	19°32	19° 5	2 <u>2</u> °56	29°10	S 29
M30	4 36 18	8 .⁄ 7'57	10)(17	13 × 6	12 × 10	5 Ω 48	3 궁 4	26≈21	1099 1	2 Υ 46	$11\Omega13$	19°D31	19 m 2	23る 2	29 Mp 16	M30

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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	14 s28	12 s10	2n43	8 s 5 2	1n37	12 s32	0n58	5n48	1n27	23 s24	0n :	3	14s36	1 s40	23n23	0n21	0s 8	1 s32	24n 9	7n 0	3n 9	3n45	17 s34	1 s56	3 s46
M 2	14 47	9 1	1 44		1 31		0 56	5 34		23 24			14 36		23 23	0 21	0 8	1 32	24 9	7 0	3 9		17 33	1 59	3 46
T 3	15 6	5 23	0 39	10 11	1 25	13 25	0 55	5 21	1 28	23 25	0 :	2	14 35	1 40	23 23	0 21	0 8	1 32	24 9	7 0	3 8		17 33	2 2	3 46
W 4	15 25	1 26	0s29		1 19		0 53	5 7		23 25			14 35	1 40		0 21	0 9	1 32	24 9	7 1	3 8		17 32	2 5	3 46
T 5	15 43	2n43		11 30			0 51	4 53		23 25			14 35	1 39		0 21	0 9	1 32	24 9	7 1	3 9		17 32	2 8	3 46
F 6	16 2	6 51	2 44				0 49	4 39		23 26			14 35		23 23	0 21	0 10	1 32	24 9	7 1	3 10		17 31	2 11	3 46
S 7	16 20	10 44	3 41	12 47	1 1	15 6	0 47	4 25	1 29	23 26	0	2	14 34	1 39	23 24	0 21	0 10	1 32	24 10	7 1	3 13	3 52	17 31	2 14	3 46
S 8	16 37	14 6	4 26	13 25	0 54	15 30	0 45	4 11		23 26		2	14 34	1 39	23 24	0 21	0 11	1 32	24 10	7 2	3 16	3 53	17 30	2 16	3 46
M 9	16 54	16 38	4 55	14 2	0 47	15 54	0 43	3 57	1 29	23 26			14 33	1 39	23 24	0 21	0 11	1 32	24 10	7 2	3 20	3 55	17 30	2 19	3 46
T 10	17 11	18 8	5 5	14 39	0 41	16 18	0 41	3 43	1 30	23 27	0	2	14 33	1 39	23 24	0 21	0 12	1 32	24 10	7 2	3 23	3 56	17 29	2 22	3 47
W11	17 28	18 25	4 55	15 15	0 34	16 41	0 38	3 29	1 30	23 27	0 :	2	14 32	1 39	23 24	0 21	0 12		24 11	7 3	3 26	3 57	17 29	2 25	3 47
T 12	17 45	17 30	4 26	15 50	0 27	17 4	0 36	3 15	1 30	23 27	0	1	14 32	1 39	23 24	0 21	0 12	1 31	24 11	7 3	3 29	3 58	17 28	2 28	3 47
F 13	18 1	15 28	3 40	16 24	0 20	17 26	0 34	3 1	1 30	23 27	0	1	14 31	1 39	23 24	0 21	0 13	1 31	24 11	7 3	3 30	4 0	17 28	2 30	3 47
S 14	18 17	12 31	2 42	16 58	0 14	17 48	0 32	2 48	1 31	23 27	0	1	14 31	1 39	23 24	0 21	0 13	1 31	24 11	7 3	3 30	4 1	17 27	2 33	3 47
S 15	18 32	8 55	1 35	17 31	0 7	18 9	0 30	2 34	1 31	23 27	0	1	14 30	1 38	23 25	0 21	0 13	1 31	24 12	7 4	3 30	4 2	17 26	2 36	3 47
M16	18 47	4 53	0 24	18 3	0 0	18 30	0 27	2 20	1 31	23 28	0	1	14 29	1 38	23 25	0 21	0 14	1 31	24 12	7 4	3 30	4 3	17 26	2 38	3 47
T 17	19 2	0 41	0n48	18 34	0s 7	18 50	0 25	2 6	1 31	23 28	0	1	14 29	1 38	23 25	0 21	0 14	1 31	24 12	7 4	3 30	4 5	17 25	2 41	3 47
W18	19 17	3 s30	1 55	19 5	0 13	19 10	0 23	1 52	1 32	23 28	0	1	14 28	1 38	23 25	0 21	0 14	1 31	24 13	7 4	3 31	4 6	17 25	2 43	3 47
T 19	19 31	7 28	2 56	19 34	0 20	19 29	0 21	1 38	1 32	23 28	0	1	14 27	1 38	23 25	0 21	0 15	1 31	24 13	7 5	3 33	4 7	17 24	2 46	3 47
F 20	19 45	11 1	3 46	20 2	0 26	19 48	0 18	1 25	1 32	23 28	0	1	14 26	1 38	23 25	0 21	0 15	1 31	24 13	7 5	3 36	4 8	17 24	2 48	3 47
S 21	19 58	14 0	4 24	20 30	0 33	20 6	0 16	1 11	1 32	23 28	0	1	14 25	1 38	23 25	0 21	0 15	1 31	24 13	7 5	3 40	4 10	17 23	2 51	3 47
S 22	20 11	16 18	4 50	20 56	0 39	20 24	0 14	0 57	1 33	23 28	0	0	14 24	1 38	23 26	0 21	0 15	1 31	24 14	7 6	3 45	4 11	17 22	2 53	3 48
M23	20 24	17 49	5 1	21 22	0 46	20 41	0 11	0 43	1 33	23 28	0	0	14 23	1 38	23 26	0 21	0 16	1 31	24 14	7 6	3 50	4 12	17 22	2 56	3 48
T 24	20 36	18 30	4 58	21 46	0 52	20 57	0 9	0 30	1 33	23 28	0	0	14 23	1 37	23 26	0 21	0 16	1 31	24 14	7 6	3 56	4 13	17 21	2 58	3 48
W25	20 48	18 21	4 42	22 9	0 58	21 13	0 6	0 16	1 33	23 28	0	0	14 22	1 37	23 26	0 21	0 16	1 31	24 15	7 6	4 0	4 15	17 21	3 1	3 48
T 26	21 0	17 24	4 14	22 32	1 4	21 28	0 4	0 2	1 33	23 27	0	0	14 21	1 37	23 26	0 21	0 16	1 31	24 15	7 7	4 4	4 16	17 20	3 3	3 48
F 27	21 11	15 41	3 35	22 53	1 9	21 43	0 2	0 s11	1 34	23 27	0 s	0	14 19	1 37	23 26	0 21	0 17	1 31	24 16	7 7	4 7	4 17	17 19	3 5	3 48
S 28	21 22	13 19	2 46	23 13	1 15	21 57	0 s 1	0 25	1 34	23 27	0	0	14 18	1 37	23 27	0 21	0 17	1 31	24 16	7 7	4 8	4 18	17 19	3 7	3 48
S 29	21 32	10 23	1 50	23 32	1 20	22 10	0 3	0 38	1 34	23 27	0	0	14 17	1 37	23 27	0 21	0 17	1 31	24 16	7 7	4 9	4 20	17 18	3 10	3 48
M30	21 s42	6 s 5 8	0n49	23 s49	1 s25	22 s23	0s 6	0 s52	1n34	23 s27	0 s	0	14s16	1 s37	23n27	0n21	0s17	1 s31	24n17	7n 8	4n 9	4n21	17s18	3 s12	3 s48

 $\label{eq:Julian Day Number = 2341911.5, Delta T = 14.35 sec} \\ Ecliptic obliquity = 23°28'33, Nutation = -0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°33'01, Lahiri = 19°40'01Greg. Calendar \\ \\$

DECEMBER 1699 GC 00:00 UT

DECE	HIDEN 3	LUJJ UC													00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(并	В	S.	Ω	Ç	ķ	Day
T 1	4 40 15	9 ∡ 8'52	22) 37	14 × 740	13 ∡ 726	6 <u>₽</u> 22	3 ට 17	26≈24	9°R59	2°R46	11°R12	19°R32	18 m 59	23号 9	29 m 21	T 1
W 2	4 44 11	10° 9'47	5 Υ 18	16°14	14°41	6°57	3°30	26°28	9957	2 Υ 45	11 Q 11	19 m /31	18°56	23°16	29°26	W 2
T 3	4 48 8	11°10'43	18°24	17°48	15°57	7°31	3°44	26°31	9°55	2°45	11°11	19°28	18°52	23°22	29°31	T 3
F 4	4 52 5	12°11'40	1859	19°21	17°12	8° 5	3°57	26°35	9°52	2°45	11°10	19°23	18°49	23°29	29°36	F 4
S 5	4 56 1	13°12'38	16° 3	20°55	18°28	8°39	4°11	26°38	9°50	2°44	11°10	19°15	18°46	23°36	29°40	S 5
S 6	4 59 58	14°13'37	0 I I33	22°29	19°43	9°14	4°24	26°42	9°48	2°44	11° 9	19° 4	18°43	23°43	29°45	S 6
M 7	5 3 54	15°14'36	15°25	24° 3	20°58	9°48	4°38	26°46	9°46	2°44	11° 8	18°52	18°40	23°49	29°50	M 7
T 8	5 7 51	16°15'36	0928	25°37	22°14	10°22	4°51	26°49	9°43	2°44	11° 8	18°40	18°37	23°56	29°54	T 8
W 9	5 11 47	17°16'37	15°33	27°11	23°29	10°56	5° 5	26°53	9°41	2°44	11° 7	18°30	18°33	24° 3	29°58	W 9
T 10	5 15 44	18°17'39	0 Ω 30	2 <u>8</u> °45	24°45	11°30	5°18	26°57	9°39	2°43	11° 6	18°21	18°30	24° 9	0 ჲ 3	T 10
F 11	5 19 40	19°18'42	15°12	0 궁 19	26° 0	12° 3	5°32	27° 1	9°36	2°43	11° 6	18°16	18°27	24°16	0° 7	F 11
S 12	5 23 37	20°19'46	29°32	1°53	27°16	12°37	5°45	27° 5	9°34	2°43	11° 5	18°14	18°24	24°23	0°11	S 12
S 13	5 27 34	21°20'51	13 m 30	3°27	28°31	13°11	5°59	27°10	9°32	2°43	11° 4	18°13	18°21	24°29	0°15	S 13
M14	5 31 30	22°21'56	27° 7	5° 0	29°46	13°44	6°13	27°14	9°29	2°D43	11° 3	18°13	18°18	24°36	0°19	M14
T 15	5 35 27	23°23'03	10 ≏ 23	6°34	1る 2	14°18	6°27	27°18	9°27	2°43	11° 2	18°12	18°14	24°43	0°22	T 15
W16	5 39 23	24°24'10	23°22	8° 7	2°17	14°51	6°40	27°23	9°24	2°43	11° 1	18° 9	18°11	24°50	0°26	W16
T 17	5 43 20	25°25'18	6 M 7	9°40	3°33	15°25	6°54	27°27	9°22	2°43	11° 1	18° 4	18° 8	24°56	0°29	T 17
F 18	5 47 16	26°26'27	18°40	11°12	4°48	15°58	7° 8	27°32	9°19	2°43	11° 0	17°55	18° 5	25° 3	0°33	F 18
S 19	5 51 13	27°27'36	1 √ 3	12°44	6° 3	16°31	7°22	27°37	9°17	2°44	10°59	17°44	18° 2	25°10	0°36	S 19
S 20	5 55 9	28°28'46	13°18	14°16	7°19	17° 4	7°36	27°42	9°14	2°44	10°58	17°30	17°58	25°16	0°39	S 20
M21	5 59 6	2 <u>9</u> °29'57	2 <u>5</u> °25	15°46	8°34	17°37	7°49	27°47	9°12	2°44	10°57	17°16	17°55	25°23	0°42	M21
T 22	6 3 3	0 ට 31'07	7 궁 25	17°16	9°50	18°10	8° 3	27°51	9° 9	2°44	10°56	17° 1	17°52	25°30	0°45	T 22
W23	6 6 5 9	1°32'18	19°19	18°44	11° 5	18°43	8°17	27°56	9° 7	2°45	10°55	16°48	17°49	25°36	0°48	W23
T 24	6 10 56	2°33'30	1≈10	20°10	12°21	19°16	8°31	28° 2	9° 4	2°45	10°54	16°37	17°46	25°43	0°51	T 24
F 25	6 14 52	3°34'41	12°58	21°35	13°36	19°48	8°45	28° 7	9° 1	2°45	10°53	16°29	17°43	25°50	0°53	F 25
S 26	6 18 49	4°35'52	24°47	22°58	14°51	20°21	8°59	28°12	8°59	2°46	10°52	16°24	17°39	25°56	0°56	S 26
S 27	6 22 45	5°37'03	6) (40	24°18	16° 7	20°53	9°13	28°17	8°56	2°46	10°50	16°22	17°36	26° 3	0°58	S 27
M28	6 26 42	6°38'14	18°42	25°35	17°22	21°25	9°27	28°23	8°54	2°47	10°49	16°D22	17°33	26°10	1° 0	M28
T 29	6 30 38	7°39'24	0 Υ 58	26°48	18°37	21°58	9°41	28°28	8°51	2°47	10°48	16°22	17°30	26°17	1° 2	T 29
W30	6 34 35	<u>8</u> °40'35	13°33	2 <u>7</u> °57	1 <u>9</u> °53	22°30	<u>9</u> °55	28°34	8°48	2°48	10°47	16°R22	17°27	2 <u>6</u> °23	1° 4	W30
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T 15 W16 T 17 F 18 S 19	23 19 23 21 23 24 23 26 23 27		25 27 2 25 21 2 25 13 2	13 24 9 0 40 14 24 10 0 43 14 24 10 0 45 13 24 10 0 47 12 24 9 0 49	4 9 1 38 4 22 1 38 4 34 1 38 4 47 1 38 4 59 1 38	23 20 0 2 23 20 0 2	13 54 1 35 13 52 1 35 13 50 1 35	23 30 0 22 23 30 0 22 23 30 0 22 23 30 0 22 23 31 0 22		24 24 7 11 24 24 7 12	4 40 4 41 4 44 4 47 4 51	4 39 17 8 4 41 17 8 4 42 17 7 4 43 17 6 4 44 17 6	3 40 3 51 3 42 3 51 3 44 3 51 3 45 3 51 3 47 3 51
S 20 M21 T 22 W23 T 24 F 25 S 26	23 28 23 28 23 27	18 27 4 57 18 35 4 42 17 53 4 14 16 26 3 35 14 16 2 47	24 39 2 24 25 2 24 10 2 23 53 1 23 35 1	10 24 7 0 51 8 24 5 0 53 5 24 1 0 55 1 23 57 0 57 57 23 53 0 59 52 23 47 1 1 46 23 41 1 2	5 24 1 39 5 37 1 39 5 49 1 39 6 1 1 39 6 13 1 39	23 18 0 2 23 17 0 2 23 16 0 2 23 16 0 3 23 15 0 3 23 14 0 3 23 13 0 3	13 45 1 35 13 43 1 35 13 41 1 35 13 40 1 35 13 38 1 35	23 31 0 22 23 31 0 22 23 31 0 22 23 31 0 22 23 32 0 22 23 32 0 22 23 32 0 22 23 32 0 22	0 17 1 30 0 16 1 30	24 26 7 12 24 26 7 13 24 27 7 13 24 27 7 13 24 28 7 13	4 57 5 2 5 8 5 13 5 17 5 20 5 22	4 46 17 5 4 47 17 4 4 48 17 4 4 49 17 3 4 51 17 2 4 52 17 2 4 53 17 1	3 48 3 52 3 49 3 52 3 51 3 52 3 52 3 52 3 53 3 52 3 54 3 52 3 55 3 53
S 27 M28 T 29 W30 T 31	23 21 23 19 23 15 23 11 23 s 7	4 40 0s12 0 48 1 17 3n13 2 20	22 33 1 22 10 1 21 47 1	39 23 34 1 4 31 23 26 1 6 22 23 18 1 8 12 23 9 1 9 s 2 22 s 5 9 1 s 1 1	6 49 1 40 7 1 1 40 7 13 1 40	23 12 0 3 23 11 0 3 23 10 0 3 23 10 0 3 23 s 9 0s 3	13 32 1 35 13 30 1 34 13 28 1 34	23 32 0 22 23 32 0 22 23 32 0 22 23 33 0 22 23n33 0n22	0 16 1 29 0 15 1 29 0 15 1 29	24 29 7 14 24 30 7 14	5 23 5 23 5 23 5 23 5 23 5 n24	4 54 17 0 4 56 17 0 4 57 16 59 4 58 16 58 4n59 16s58	3 57 3 53 3 58 3 53 3 59 3 53 4 0 3 53 4s 0 3 s53

Julian Day Number = 2341941.5, Delta T = 14.32 sec Ecliptic obliquity = $23^{\circ}28'32$, Nutation = - $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}33'05$, Lahiri = $19^{\circ}40'05$ Greg. Calendar