

Astrodienst Ephemeris Tables for the year 2139

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 2139 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂ [™]	4	ħ)∤(,	В	R	Ω	Ç	ķ	Day
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T 1 F 2	6 41 13 6 45 9	10 る 7'57 11° 9'08	10 궁 19 24°47	11 る 28 13°4	25 M .41 26°50	2 ≈ 34 3°21	17 ට 31 17°45	5 ≈ 15 5°22	15 ≏ 43 15°44	10 ∡ 758 11° 0	9°R51 9 ∏ 50	15°R11 15 ≈ 8	16 ≈ 40 16°37	9 m) 3	1°R36 1 © 32	T 1 F 2
F 2 S 3	6 49 6	11° 908 12°10'18	24°47 9 ≈ 23	13° 4 14°41	20°50 27°59	4° 8	17°45 17°59	5°22	15°44	11° 0	9 ц 30 9°49	15≈ 8 15°D 6	16°34	9°16	1°29	F 2 S 3
5 3	0 49 0	12-10-18	9823	14-41		4 8	1/-39	3-29	15-45	11- 2	9-49	13.D 0	10-34	9-10	1-29	5 3
S 4	6 53 2	13°11'29	24° 0	16°18	29° 8	4°55	18°13	5°36	15°46	11° 4	9°48	15° 6	16°31	9°23	1°25	S 4
M 5	6 56 59	14°12'39	8) 32	17°56	0 ∡ 18	5°42	18°27	5°42	15°47	11° 6	9°47	15° 7	16°27	9°29	1°21	M 5
T 6	7 0 55	15°13'49	22°56	19°34	1°27	6°29	18°41	5°49	15°48	11° 8	9°47	15° 9	16°24	9°36	1°17	T 6
W 7	7 4 52	16°14'59	7 Υ 8	21°12	2°37	7°17	18°55	5°56	15°49	11°10	9°46	15°10	16°21	9°43	1°13	W 7
T 8	7 8 48	17°16'08	21° 7	22°50	3°47	8° 4	19° 9	6° 3	15°50	11°12	9°45	15°R10	16°18	9°49	1°10	T 8
F 9	7 12 45	18°17'17	4 8 52	24°29	4°57	8°51	19°23	6°10	15°50	11°14	9°44	15° 9	16°15	9°56	1° 6	F 9
S 10	7 16 42	19°18'26	18°23	26° 8	6° 7	9°38	19°37	6°17	15°51	11°16	9°43	15° 7	16°12	10° 3	1° 2	S 10
S 11	7 20 38	20°19'34	1 П 40	27°47	7°17	10°26	19°51	6°24	15°51	11°18	9°42	15° 4	16° 8	10° 9	0°59	S 11
M12	7 24 35	21°20'42	14°44	29°27	8°28	11°13	20° 5	6°31	15°52	11°19	9°41	15° 0	16° 5	10°16	0°55	M12
T 13	7 28 31	22°21'49	27°34	1≈ 7	9°38	12° 0	20°19	6°38	15°52	11°21	9°41	14°56	16° 2	10°23	0°52	T 13
W14	7 32 28	23°22'57	109512	2°47	10°49	12°47	20°33	6°45	15°53	11°23	9°40	14°53	15°59	10°29	0°48	W14
T 15	7 36 24	24°24'03	22°37	4°27	12° 0	13°35	20°47	6°52	15°53	11°25	9°39	14°50	15°56	10°36	0°45	T 15
F 16	7 40 21	25°25'10	4 Ω 51	6° 7	13°11	14°22	21° 0	6°59	15°53	11°27	9°38	14°49	15°52	10°43	0°41	F 16
S 17	7 44 17	26°26'16	16°54	7°47	14°21	15° 9	21°14	7° 6	15°54	11°28	9°37	14°D48	15°49	10°49	0°38	S 17
S 18	7 48 14	27°27'21	28°50	9°27	15°33	15°57	21°28	7°13	15°54	11°30	9°37	14°49	15°46	10°56	0°34	S 18
M19	7 52 11	28°28'27	10 m)40	11° 7	16°44	16°44	21°42	7°20	15°54	11°32	9°36	14°50	15°43	11° 3	0°31	M19
T 20	7 56 7	29°29'32	22°28	12°46	17°55	17°31	21°56	7°27	15°R54	11°33	9°35	14°52	15°40	11° 9	0°28	T 20
W21	8 0 4	0≈30'36	4 ₽ 18	14°24	19° 6	18°19	22°10	7°34	15°54	11°35	9°35	14°53	15°37	11°16	0°25	W21
T 22	8 4 0	1°31'41	16°13	16° 2	20°18	19° 6	22°24	7°41	15°54	11°37	9°34	14°54	15°33	11°23	0°21	T 22
F 23	8 7 57	2°32'45	28°19	17°38	21°29	19°54	22°38	7°49	15°54	11°38	9°33	14°R55	15°30	11°29	0°18	F 23
S 24	8 11 53	3°33'48	10 M 40	19°13	22°41	20°41	22°52	7°56	15°53	11°40	9°33	14°55	15°27	11°36	0°15	S 24
S 25	8 15 50	4°34'52	23°21	20°47	23°52	21°28	23° 6	8° 3	15°53	11°41	9°32	14°54	15°24	11°42	0°12	S 25
M26	8 19 46	5°35'55	6 ₹ 126	22°18	25° 4	22°16	23°20	8°10	15°53	11°43	9°32	14°53	15°21	11°49	0° 9	M26
T 27	8 23 43	6°36'57	19°56	23°46	26°16	23° 3	23°34	8°17	15°53	11°44	9°31	14°52	15°18	11°56	0° 6	T 27
W28	8 27 40	7°37'59	3 ₹ 53	25°11	27°28	23°51	23°47	8°24	15°52	11°46	9°30	14°51	15°14	12° 2	0° 4	W28
T 29	8 31 36	8°39'01	18°15	26°32	28°40	24°38	24° 1	8°31	15°52	11°47	9°30	14°50	15°11	12° 9	0° 1	T 29
F 30	8 35 33	9°40'01	2≈57	27°49	29°52	25°26	24°15	8°39	15°51	11°49	9°29	14°50	15° 8	12°16	29耳58	F 30
S 31	8 39 29	10≈41'01	17 ≈ 54	29≈≈ 1	1중 4	26≈13	24 る 29	8 ≈ 46	15 ≏ 51	11 ∡ 750	9Ⅱ29	14°D50	15 ≈ 5	12 m 22	29耳56	S 31

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T 1 F 2 S 3		22 56 1 49	24 38 1	52 16 50 2 40	20 30 1 8		19 s26 0 s30 19 24 0 30 19 23 0 30	5 34 0 41	20 34 1 32	10 14 11 48	16 s 16 15 s 50 16 17 15 51 16 18 15 52	6 18 16 46 6	s39 39 39
S 4 M 5 T 6 W 7 T 8	22 46 22 40 22 33 22 26 22 19	6 26 2 5 0n 9 3 13 6 37 4 8	24 13 2	2 17 54 2 36 4 18 9 2 34	19 56 1 8 19 44 1 8 19 32 1 8	22 18 0 8 22 16 0 8	19 21 0 31 19 20 0 31 19 18 0 31 19 16 0 31 19 15 0 31	5 34 0 41 5 35 0 41 5 35 0 41 5 35 0 41 5 35 0 41	20 35 1 32 20 35 1 32	10 14 11 48 10 14 11 47 10 14 11 47	16 18 15 53 16 17 15 54 16 17 15 55 16 17 15 56 16 16 15 56	6 8 16 47 6 6 5 16 47 6 6 2 16 47 6	39 38 38 38 38
F 9 S 10 S 11		22 18 5 13	23 17 2 3 23 0 2 1 22 41 2	7 18 52 2 29			19 11 0 31	5 36 0 41	20 36 1 32	10 14 11 47 10 14 11 47 10 14 11 47	16 17 15 58	5 52 16 47 6	38 38 38
M12 T 13 W14 T 15 F 16 S 17	21 2	27 16 3 52 26 1 2 59 23 30 2 0 19 56 0 55	2 21 58 2 9 21 34 2 0 21 9 2 5 20 42 2	7 19 31 2 24 6 19 43 2 22 4 19 54 2 20 2 20 5 2 18	18 16 1 7 18 2 1 7 17 48 1 7 17 35 1 7	22 2 0 9 22 0 0 9	19 6 0 31 19 5 0 31 19 3 0 31 19 1 0 31	5 36 0 41 5 36 0 41 5 37 0 41 5 37 0 41 5 37 0 41 5 37 0 41	20 37 1 32 20 37 1 32 20 37 1 32 20 37 1 32	10 14 11 46 10 15 11 46	16 21 16 1 16 22 16 2 16 22 16 3 16 23 16 4	5 42 16 47 6 5 39 16 48 6 5 36 16 48 6 5 32 16 48 6	38 38 38 37 37 37
S 18 M19 T 20 W21 T 22 F 23 S 24	20 39 20 27 20 15 20 2 19 48 19 35 19 21	5 25 2 18 0 1 3 14 5 s 24 4 1 10 39 4 38 15 36 5 4	3 19 13 1 4 18 41 1 1 18 7 1 3 17 32 1 4 16 57 1	47 20 45 2 8 42 20 53 2 6 36 21 1 2 3 29 21 9 2 0	16 52 1 6 16 37 1 6 16 23 1 6 16 8 1 6 15 53 1 6	21 44 0 10 21 41 0 10	18 56 0 31	5 37 0 41 5 37 0 42 5 37 0 42 5 37 0 42 5 37 0 42	20 38 1 32 20 38 1 32 20 38 1 32 20 38 1 32 20 39 1 32	10 16 11 44	16 22 16 7 16 22 16 8 16 22 16 9 16 21 16 10	5 23 16 49 6 5 19 16 49 6 5 16 16 49 6 5 13 16 49 6 5 10 16 49 6	37 37 37 36 36 36 36
S 25 M26 T 27 W28 T 29 F 30 S 31	18 51 18 36 18 21 18 5	26 13 4 55 27 22 4 20 26 50 3 28 24 32 2 22 20 33 1 6	5 15 4 1 0 14 26 0 8 13 47 0 2 13 9 0 5 12 30 0	4 21 28 1 52 54 21 33 1 49 43 21 38 1 46 31 21 42 1 43 18 21 45 1 40	15 6 1 5 14 50 1 5 14 35 1 4 14 19 1 4 14 2 1 4	21 35 0 10 21 32 0 10 21 30 0 11 21 28 0 11 21 26 0 11	18 45 0 32 18 43 0 32 18 42 0 32 18 40 0 32 18 38 0 32 18 36 0 32 18 34 0 032	5 36 0 42 5 36 0 42 5 36 0 42 5 36 0 42 5 36 0 42	20 39 1 32 20 39 1 32 20 39 1 32 20 40 1 32 20 40 1 32	10 16 11 43 10 16 11 43 10 16 11 43 10 17 11 42 10 17 11 42	16 21 16 12 16 22 16 13 16 22 16 14 16 22 16 15 16 22 16 16 16 22 16 17 16 s22 16 s18	5 0 16 50 6 4 57 16 50 6 4 53 16 51 6 4 50 16 51 6 4 47 16 51 6	36 35 35 35 34 34 834

Julian Day Number = 2502313.5, Delta T = 114.43 sec Ecliptic obliquity = 23°25'22, Nutation = 0°00'12, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°40'57, Lahiri = 25°47'58

FEBRUARY 2139 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	24	ħ)∤(并	Р	n	ດ	Ç	ķ	Day
S 1	8 43 26	11≈42'00	2) 56	0 ¥ 6	2 ට් 16	27≈ 1	24 පි 43	8≈53	15°R50	11 🕶 52	9°R28	14≈50	15≈ 2	12 m)29	29°R53	S 1
M 2	8 47 22	12°42'57	17°55	1° 5	3°28	27°48	24°56	9° 0	15 € 30	11°53	9 ∏ 28	14°50	14°58	12°36	29 I I50	M 2
T 3	8 51 19	13°43'54	2 Υ 43	1°56	4°40	28°36	25°10	9° 7	15°49	11°54	9°28	14°50	14°55	12°42	29°48	T 3
W 4	8 55 15	14°44'49	17°15	2°39	5°52	29°23	25°24	9°14	15°48	11°55	9°27	14°R50	14°52	12°49	29°46	W 4
T 5	8 59 12	15°45'43	1825	3°12	7° 5	0)	25°37	9°21	15°47	11°57	9°27	14°50	14°49	12°56	29°43	T 5
F 6	9 3 9	16°46'35	15°13	3°36	8°17	0°58	25°51	9°29	15°46	11°58	9°26	14°D50	14°46	13° 2	29°41	F 6
S 7	9 7 5	17°47'26	28°39	3°49	9°29	1°46	26° 4	9°36	15°45	11°59	9°26	14°50	14°43	13° 9	29°39	S 7
S 8	911 2	18°48'16	11 II 45	3°R51	10°42	2°33	26°18	9°43	15°44	12° 0	9°26	14°51	14°39	13°16	29°37	S 8
M 9	9 14 58	19°49'04	24°33	3°43	11°54	3°20	26°31	9°50	15°43	12° 1	9°26	14°51	14°36	13°22	29°35	M 9
T 10	9 18 55	20°49'51	7 9 5	3°23	13° 7	4° 8	26°45	9°57	15°42	12° 2	9°25	14°52	14°33	13°29	29°33	T 10
W11	9 22 51	21°50'36	19°24	2°53	14°19	4°55	26°58	10° 4	15°41	12° 4	9°25	14°52	14°30	13°36	29°31	W11
T 12	9 26 48	22°51'20	1 Q 33	2°13	15°32	5°43	27°11	10°11	15°40	12° 5	9°25	14°53	14°27	13°42	29°29	T 12
F 13	9 30 45	23°52'03	13°35	1°24	16°45	6°30	27°25	10°18	15°39	12° 6	9°25	14°R53	14°24	13°49	29°27	F 13
S 14	9 34 41	24°52'44	25°30	0°27	17°57	7°18	27°38	10°25	15°37	12° 7	9°24	14°53	14°20	13°56	29°26	S 14
S 15	9 38 38	25°53'24	7 m 21	29≈25	19°10	8° 5	27°51	10°32	15°36	12° 7	9°24	14°52	14°17	14° 2	29°24	S 15
M16	9 42 34	26°54'02	19°10	28°18	20°23	8°52	28° 4	10°39	15°35	12° 8	9°24	14°51	14°14	14° 9	29°23	M16
T 17	9 46 31	27°54'39	0 ≏ 59	27° 9	21°36	9°40	28°17	10°46	15°33	12° 9	9°24	14°49	14°11	14°16	29°21	T 17
W18	9 50 27	28°55'15	12°51	26° 0	22°49	10°27	28°31	10°53	15°32	12°10	9°24	14°47	14° 8	14°22	29°20	W18
T 19	9 54 24	29°55'49	24°49	24°51	24° 2	11°14	28°44	11° 0	15°30	12°11	9°24	14°44	14° 4	14°29	29°19	T 19
F 20	9 58 20	0 ¥ 56'23	6 M .56	23°46	25°15	12° 2	28°57	11° 7	15°29	12°12	9°24	14°43	14° 1	14°36	29°18	F 20
S 21	10 2 17	1°56'55	19°15	22°45	26°28	12°49	29° 9	11°14	15°27	12°12	9°24	14°41	13°58	14°42	29°16	S 21
S 22	10 6 13	2°57'26	1 ₹ 51	21°50	27°41	13°36	29°22	11°20	15°25	12°13	9°D24	14°D41	13°55	14°49	29°15	S 22
M23	10 10 10	3°57'55	14°48	21° 1	28°54	14°24	29°35	11°27	15°24	12°14	9°24	14°41	13°52	14°56	29°15	M23
T 24	10 14 7	4°58'24	28° 9	20°19	0≈ 7	15°11	29°48	11°34	15°22	12°15	9°24	14°42	13°49	15° 2	29°14	T 24
W25	10 18 3	5°58'51	11 궁 56	19°44	1°20	15°58	0≈ 1	11°41	15°20	12°15	9°24	14°44	13°45	15° 9	29°13	W25
T 26	10 22 0	6°59'16	26°11	19°16	2°33	16°45	0°13	11°48	15°18	12°16	9°24	14°45	13°42	15°16	29°12	T 26
F 27	10 25 56	7°59'40	10≈50	18°56	3°46	17°33	0°26	11°54	15°16	12°16	9°24	14°R46	13°39	15°22	29°12	F 27
S 28	10 29 53	9 米 0'03	25≈50	18 ≈ 44	4≈59	18 ∺ 20	0≈38	12≈ 1	15 ≏ 15	12 × 17	9∏24	14≈45	13≈36	15 m 29	29 Ⅱ 11	S 28

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	decl	decl lat	decl	lat c	lecl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl la	at	decl	decl	decl	decl	lat
S 1	17 s16	8 s53 1n	39 11s17	0n10 21	s50 1n34	13 s30	1s 3	21 s21	0 s11	18 s33	0 s32	5 s35	0n42	20 s40	1n33	10n17 1	11s42	16 s22	16s19	4n40	16n52	6 s 3 4
M 2	16 59	2 6 2	54 10 42	0 25 21	52 1 31	13 13	1 3	21 19	0 11	18 31	0 32	5 35	0 42	20 40	1 33	10 17 1	11 41	16 22	16 20	4 37	16 52	6 33
T 3	16 42	4n41 3	56 10 9	0 40 21	53 1 28	12 56	1 3	21 16	0 11	18 29	0 32	5 34	0 42	20 40	1 33	10 18 1	11 41	16 22	16 21	4 34	16 52	6 33
W 4	16 24	11 6 4	42 9 39	0 57 21	53 1 25	12 39	1 3	21 14	0 11	18 27	0 33	5 34	0 42	20 40	1 33	10 18 1	11 41	16 22	16 22	4 31	16 53	6 33
T 5	16 6	16 47 5	9 9 11	1 13 21	53 1 22	12 22	1 2	21 11	0 11	18 25	0 33	5 34	0 42	20 41	1 33	10 18 1	11 41	16 22	16 23	4 27	16 53	6 32
F 6	15 48	21 27 5	18 8 47	1 30 21	52 1 18	12 5	1 2	21 9	0 12	18 24	0 33	5 33	0 42	20 41	1 33	10 18 1	11 40	16 22	16 24	4 24	16 53	6 32
S 7	15 29	24 52 5	9 8 26	1 47 21	50 1 15	11 48	1 2	21 7	0 12	18 22	0 33	5 33	0 42	20 41	1 33	10 18 1	11 40	16 22	16 25	4 21	16 54	6 32
S 8	15 11	26 52 4	44 8 9	2 4 21	48 1 12	11 31	1 1	21 4	0 12	18 20	0 33	5 33	0 42	20 41	1 33	10 19 1	11 40	16 22	16 26	4 18	16 54	6 31
M 9	14 52	27 23 4	5 7 57	2 21 21	45 1 8	11 13	1 1	21 2	0 12	18 18	0 33	5 32	0 42	20 41	1 33	10 19 1	11 39	16 22	16 26	4 14	16 54	6 31
T 10	14 32	26 29 3	15 7 50	2 36 21	42 1 5	10 56	1 1	20 59	0 12	18 16	0 33	5 32	0 42	20 41	1 33	10 19 1	11 39	16 22	16 27	4 11	16 55	6 31
W11	14 13	24 17 2	17 7 47	2 51 21	38 1 2	10 38	1 0	20 57	0 12	18 14	0 33	5 31	0 42	20 41	1 33	10 19 1	11 39	16 22	16 28	4 8	16 55	6 30
T 12	13 53	21 0 1	13 7 48	3 4 21	33 0 58	10 21	1 0	20 54	0 12	18 13	0 33	5 31	0 42	20 41	1 33	10 20 1	11 39	16 22	16 29	4 5	16 55	6 30
F 13	13 33	16 51 0	7 7 55	3 16 21	28 0 55	10 3	1 0	20 52	0 12	18 11	0 33	5 30	0 42	20 41	1 33	10 20 1	11 38	16 21	16 30	4 1	16 56	6 29
S 14	13 13	12 6 0s	59 8 5	3 26 21	22 0 52	9 45	0 59	20 49	0 12	18 9	0 33	5 30	0 42	20 41	1 33	10 20 1	11 38	16 22	16 31	3 58	16 56	6 29
S 15	12 53	6 56 2	1 8 20	3 34 21	15 0 48	9 27	0 59	20 47	0 12	18 7	0 33	5 29	0 42	20 42	1 33	10 20 1	11 38	16 22	16 32	3 55	16 57	6 29
M16	12 32	1 32 2	59 8 38	3 39 21	8 0 45	9 9	0 59	20 44	0 13	18 5	0 33	5 29	0 42	20 42	1 33	10 21 1	11 38	16 22	16 33	3 51	16 57	6 28
T 17	12 11	3 s 5 3	49 8 58	3 42 21	0 0 42	8 51	0 58	20 42	0 13	18 4	0 34	5 28	0 42	20 42	1 33	10 21 1	11 37	16 23	16 34	3 48	16 57	6 28
W18	11 51	9 12 4	29 9 21	3 43 20	52 0 38	8 32	0 58	20 39	0 13	18 2	0 34	5 27	0 42	20 42	1 33	10 21 1	11 37	16 23	16 35	3 45	16 58	6 28
T 19	11 29	14 13 4	57 9 45	3 41 20	43 0 35	8 14	0 58	20 37	0 13	18 0	0 34	5 27	0 42	20 42	1 33	10 21 1	11 37	16 24	16 36	3 42	16 58	6 27
F 20	11 8	18 45 5	13 10 10	3 37 20	33 0 32	7 56	0 57	20 34	0 13	17 58	0 34	5 26	0 42	20 42	1 33	10 22 1	11 36	16 25	16 37	3 38	16 59	6 27
S 21	10 46	22 34 5	15 10 35	3 31 20	23 0 28	7 37	0 57	20 32	0 13	17 56	0 34	5 26	0 42	20 42	1 33	10 22 1	11 36	16 25	16 37	3 35	16 59	6 26
S 22	10 25	25 27 5	2 11 0	3 24 20	12 0 25	7 19	0 56	20 29	0 13	17 55	0 34	5 25	0 42	20 42	1 33	10 22 1	11 36	16 25	16 38	3 32	16 59	6 26
M23	10 3	27 5 4	34 11 25	3 15 20	1 0 22	7 0	0 56	20 27	0 13	17 53	0 34	5 24	0 42	20 42	1 33	10 23 1	11 36	16 25	16 39	3 29	17 0	6 25
T 24	9 41	27 14 3	50 11 48	3 4 19	49 0 18	6 41	0 56	20 24	0 14	17 51	0 34	5 24	0 43	20 42	1 34	10 23 1	11 35	16 25	16 40	3 25	17 0	6 25
W25	9 19	25 44 2	51 12 9	2 53 19	36 0 15	6 23	0 55	20 21	0 14	17 49	0 34	5 23	0 43	20 42	1 34	10 23 1	11 35	16 24	16 41	3 22	17 1	6 25
T 26	8 56	22 33 1	41 12 29	2 41 19	23 0 12	6 4	0 55	20 19	0 14	17 47	0 34	5 22	0 43	20 42	1 34	10 23 1	11 35	16 24	16 42	3 19	17 1	6 24
F 27	8 34	17 51 0	22 12 48	2 28 19	9 0 9	5 45	0 54	20 16	0 14	17 46	0 34	5 21	0 43	20 42	1 34	10 24 1	11 34	16 24	16 43	3 16	17 1	6 24
S 28	8 s 1 1	11 s57 1n	1 13 s 4	2n15 18	s55 0n 5	5 s26	0s54	20s14	0 s14	17 s44	0 s35	5 s21	0n43	20 s42	1n34	10n24 1	11s34	16 s24	16 s44	3n12	17n 2	6 s23

Julian Day Number = 2502344.5, Delta T = 114.48 sec Ecliptic obliquity = $23^{\circ}25'23$, Nutation = $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}41'01$, Lahiri = $25^{\circ}48'02$

MARCH 2139 00:00 UT

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S 1	10 33 49	10 米 0'24	11) 2	18°D38	6≈12	19) 7	0≈51	12≈ 7	15°R13	12 × 17	9∏24	14°R44	13≈33	15 m 36	29°R11	S 1
M 2	10 37 46	11° 0'43	26°17	18 ≈ 39	7°26	19°54	1° 3	12°14	15 ≏ 11	12°18	9°24	14≈41	13°30	15°42	29耳10	M 2
T 3	10 41 42	12° 1'00	11 Y 25	18°47	8°39	20°41	1°15	12°21	15° 9	12°18	9°24	14°37	13°26	15°49	29°10	T 3
W 4	10 45 39	13° 1'16	26°16	19° 0	9°52	21°28	1°27	12°27	15° 7	12°19	9°25	14°33	13°23	15°56	29°10	W 4
T 5	10 49 36	14° 1'29	10843	19°19	11° 5	22°16	1°40	12°34	15° 4	12°19	9°25	14°29	13°20	16° 2	29°D10	T 5
F 6	10 53 32	15° 1'41	24°43	19°44	12°19	23° 3	1°52	12°40	15° 2	12°19	9°25	14°26	13°17	16° 9	29°10	F 6
S 7	10 57 29	16° 1'50	8П16	20°13	13°32	23°50	2° 4	12°46	15° 0	12°19	9°25	14°25	13°14	16°16	29°10	S 7
S 8	11 1 25	17° 1'57	21°21	20°48	14°45	24°37	2°16	12°53	14°58	12°20	9°26	14°D25	13°10	16°22	29°10	S 8
M 9	11 5 22	18° 2'02	499 4	21°26	15°58	25°24	2°27	12°59	14°56	12°20	9°26	14°26	13° 7	16°29	29°10	M 9
T 10	11 9 18	19° 2'06	16°28	22° 9	17°12	26°11	2°39	13° 5	14°54	12°20	9°26	14°27	13° 4	16°36	29°11	T 10
W11	11 13 15	20° 2'06	28°38	22°55	18°25	26°58	2°51	13°12	14°51	12°20	9°27	14°29	13° 1	16°42	29°11	W11
T 12	11 17 11	21° 2'05	10 Ω 37	23°44	19°38	27°44	3° 2	13°18	14°49	12°20	9°27	14°R30	12°58	16°49	29°12	T 12
F 13	11 21 8	22° 2'02	22°29	24°37	20°52	28°31	3°14	13°24	14°47	12°20	9°27	14°30	12°55	16°56	29°12	F 13
S 14	11 25 5	23° 1'56	4 Mp 19	25°33	22° 5	29°18	3°25	13°30	14°44	12°20	9°28	14°28	12°51	17° 2	29°13	S 14
S 15	11 29 1	24° 1'49	16° 7	26°32	23°19	0 Υ 5	3°37	13°36	14°42	12°R20	9°28	14°24	12°48	17° 9	29°14	S 15
M16	11 32 58	25° 1'39	27°57	27°34	24°32	0°52	3°48	13°42	14°40	12°20	9°29	14°18	12°45	17°16	29°15	M16
T 17	11 36 54	26° 1'28	9 ≏ 50	28°38	25°45	1°38	3°59	13°48	14°37	12°20	9°29	14°10	12°42	17°22	29°16	T 17
W18	11 40 51	27° 1'15	21°49	29°44	26°59	2°25	4°10	13°54	14°35	12°20	9°30	14° 2	12°39	17°29	29°17	W18
T 19	11 44 47	28° 1'00	3 M .54	0 ∺ 53	28°12	3°12	4°21	14° 0	14°33	12°20	9°30	13°54	12°35	17°36	29°18	T 19
F 20	11 48 44	29° 0'43	16° 7	2° 3	29°26	3°58	4°32	14° 5	14°30	12°20	9°31	13°46	12°32	17°42	29°19	F 20
S 21	11 52 40	0 Υ 0'24	28°31	3°16	0 ∺ 39	4°45	4°43	14°11	14°28	12°20	9°31	13°40	12°29	17°49	29°20	S 21
S 22	11 56 37	1° 0'04	11 × 7 9	4°31	1°53	5°32	4°54	14°17	14°25	12°20	9°32	13°36	12°26	17°56	29°21	S 22
M23	12 0 34	1°59'42	2 <u>4</u> ° 3	5°47	3° 6	6°18	5° 4	14°22	14°23	12°19	9°32	13°34	12°23	18° 2	29°23	M23
T 24	12 4 30	2°59'18	7 云 17	7° 6	4°20	7° 5	5°15	14°28	14°20	12°19	9°33	13°D34	12°20	18° 9	29°24	T 24
W25	12 8 27	3°58'53	20°53	8°26	5°33	7°51	5°25	14°33	14°18	12°19	9°34	13°35	12°16	18°16	29°26	W25
T 26	12 12 23	4°58'25	4≈53	9°48	6°47	8°38	5°35	14°39	14°15	12°18	9°34	13°36	12°13	18°22	29°28	T 26
F 27	12 16 20	5°57'56	19°18	11°11	8° 0	9°24	5°46	14°44	14°12	12°18	9°35	13°R36	12°10	18°29	29°29	F 27
S 28	12 20 16	6°57'26	4) 5	12°36	9°14	10°10	5°56	14°49	14°10	12°18	9°36	13°34	12° 7	18°36	29°31	S 28
S 29	12 24 13	7°56'53	19° 9	14° 3	10°27	10°57	6° 6	14°55	14° 7	12°17	9°36	13°30	12° 4	18°42	29°33	S 29
M30	12 28 9	8°56'18	4 Υ 21	15°31	11°41	11°43	6°15	15° 0	14° 5	12°17	9°37	13°24	12° 1	18°49	29°35	M30
T 31	12 32 6	9 Ƴ 55'41	19 Y 32	17 ∺ 0	12) 54	12 Y 29	6≈25	15≈ 5	14 ♀ 2	12 × 16	9∏38	13≈15	11≈57	18 m 56	29 Ⅲ 37	T 31

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W 4 T 5 F 6	5 54	14 45 4 58 19 59 5 13 23 55 5 8	13 50 1 13 56 1 14 1 0	1 21 17 53 0 1 8 17 36 0 1 0 55 17 19 0 1	7 4 11 0 52 0 3 52 0 52 3 3 33 0 53	2 20 3 0 14 2 20 1 0 15 19 58 0 15	17 37 0 35 17 35 0 35 17 33 0 35	5 17 0 43 5 17 0 43 5 16 0 43	20 42 1 34 20 42 1 34 20 42 1 34	10 25 11 33 10 25 11 33 10 26 11 32	16 27 16 48 16 28 16 48 16 29 16 49	2 59 17 4 6 22 2 56 17 4 6 21 2 53 17 5 6 21
S 7 S 8 M 9 T 10 W11 T 12 F 13 S 14	5 7 4 44 4 20 3 57	24 51 2 27 21 49 1 26 17 54 0 21 13 19 0s43	14 5 0 14 4 0 14 1 0 13 57 0 13 51 0 13 43 0	0 42 17 1 0 1 0 30 16 42 0 1 0 18 16 23 0 2 0 6 16 4 0 2 0 s 5 15 44 0 2 0 16 15 24 0 3 0 26 15 4 0 3 0 37 14 43 0 3	9 2 55 0 50 2 2 36 0 50 5 2 16 0 49 8 1 57 0 49 1 1 38 0 48 3 1 19 0 48	0 19 53 0 15 0 19 51 0 15 0 19 48 0 15 0 19 46 0 15 8 19 43 0 16 8 19 40 0 16	17 23 0 36	5 14 0 43 5 13 0 43 5 12 0 43 5 12 0 43 5 11 0 43 5 10 0 43	20 42 1 34 20 42 1 34 20 42 1 34 20 42 1 34 20 42 1 34	10 26 11 32 10 27 11 32 10 27 11 31 10 27 11 31 10 28 11 31	16 30 16 52 16 29 16 53 16 29 16 54 16 28 16 55 16 28 16 56	2 46 17 5 6 20 2 43 17 6 6 19
S 15 M16 T 17 W18 T 19 F 20 S 21	2 22 1 58 1 35 1 11 0 47 0 24	2 58 2 43 2s27 3 34 7 48 4 15 12 54 4 46 17 34 5 4 21 34 5 8	13 23 0 13 11 0 12 57 1 12 41 1 12 24 1 12 6 1	0 46 14 21 0 3 0 55 13 59 0 4 1 4 13 37 0 4 1 12 13 14 0 4 1 20 12 51 0 4 1 28 12 28 0 5 1 35 12 4 0 5	9 0 41 0 47 1 0 22 0 46 4 0 3 0 46 6 0n16 0 43 9 0 35 0 43 1 0 54 0 44	7 19 35 0 16 5 19 33 0 16 6 19 30 0 16 6 19 28 0 16 6 19 25 0 16	17 18 0 36 17 17 0 36 17 15 0 36 17 14 0 36 17 12 0 36 17 10 0 37	5 8 0 43 5 7 0 43 5 6 0 43 5 5 0 43 5 4 0 43 5 3 0 43	20 42 1 34 20 42 1 34 20 42 1 35 20 42 1 35 20 42 1 35 20 42 1 35 20 42 1 35	10 29 11 30 10 29 11 30 10 29 11 29 10 30 11 29	16 30 16 57 16 32 16 58 16 34 16 59 16 36 17 0 16 39 17 1 16 41 17 2	2 23 17 9 6 17 2 20 17 9 6 16 2 17 17 10 6 16 2 14 17 10 6 15 2 10 17 10 6 15 2 7 17 11 6 14
S 22 M23 T 24 W25 T 26 F 27 S 28	0 48 1 11 1 35 1 59		11 3 1 10 39 1 10 14 1 9 47 2 9 20 2	1 58 10 26 1 2 3 10 1 1 2 7 9 35 1		2 19 13 0 17 2 19 11 0 17 19 9 0 17 19 6 0 18	17 6 0 37 17 4 0 37 17 3 0 37 17 1 0 37	5 0 0 43 4 59 0 43 4 58 0 43 4 57 0 43 4 56 0 43	20 41 1 35 20 41 1 35 20 41 1 35 20 41 1 35	10 32 11 28 10 32 11 27 10 32 11 27 10 33 11 27	16 44 17 5 16 44 17 5 16 44 17 6 16 44 17 7 16 44 17 8	1 48 17 14 6 12 1 44 17 14 6 11
S 29 M30 T 31	3 9 3 32 3n56	1 33 2 59 5n22 3 58 11n57 4n40	7 49 2	2 14 8 44 1 1 2 17 8 17 1 1 2 s20 7 s51 1 s1	2 4 2 0 39	18 59 0 18	16 57 0 38 16 56 0 38 16 s54 0 s38	4 53 0 43	20 41 1 35	10 34 11 26	16 46 17 10 16 47 17 11 16 s50 17 s12	1 35 17 15 6 10

Julian Day Number = 2502372.5, Delta T = 114.53 sec Ecliptic obliquity = 23°25'23, Nutation = 0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}41'05$, Lahiri = $25^{\circ}48'06$

APRIL 2139 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)Å(并	В	n	v	Ç	Ŷ,	Day
W 1	12 36 3	10 Y 55'03	4 8 31	18 米 31	14) 8	13 Y 16	6≈35	15≈10	14°R 0	12°R16	9П39	13°R 6	11≈54	19 m) 2	29∏39	W 1
T 2	12 39 59	11°54'22	19°8	20° 4	15°21	14° 2	6°44	15°15	13 ≏ 57	12 × 15	9°40	12≈58	11°51	19° 9	29°42	T 2
F 3	12 43 56	12°53'39	3 I I19	21°37	16°35	14°48	6°54	15°20	13°54	12°14	9°40	12°50	11°48	19°16	29°44	F 3
S 4	12 47 52	13°52'53	17° 0	23°13	17°49	15°34	7° 3	15°25	13°52	12°14	9°41	12°45	11°45	19°22	29°46	S 4
S 5	12 51 49	14°52'06	09512	24°50	19° 2	16°20	7°12	15°29	13°49	12°13	9°42	12°42	11°41	19°29	29°49	S 5
M 6	12 55 45	15°51'16	12°58	26°28	20°16	17° 6	7°21	15°34	13°47	12°12	9°43	12°D40	11°38	19°36	29°51	M 6
T 7	12 59 42	16°50'23	25°22	28° 7	21°29	17°52	7°30	15°39	13°44	12°12	9°44	12°41	11°35	19°43	29°54	T 7
W 8	13 3 38	17°49'29	7Ω 29	29°48	22°43	18°38	7°39	15°43	13°41	12°11	9°45	12°R41	11°32	19°49	29°57	W 8
T 9	13 7 35	18°48'32	19°25	1 Y 31	23°56	19°24	7°47	15°48	13°39	12°10	9°46	12°41	11°29	19°56	29°59	T 9
F 10	13 11 32	19°47'33	1 m 14	3°15	25°10	20°10	7°56	15°52	13°36	12° 9	9°46	12°39	11°26	20° 3	0ණ 2	F 10
S 11	13 15 28	20°46'31	13° 2	5° 0	26°23	20°55	8° 4	15°57	13°34	12° 9	9°47	12°35	11°22	20° 9	0° 5	S 11
S 12	13 19 25	21°45'27	24°51	6°47	27°37	21°41	8°13	16° 1	13°31	12° 8	9°48	12°28	11°19	20°16	0° 8	S 12
M13	13 23 21	22°44'22	6 ₽ 44	8°36	28°50	22°27	8°21	16° 5	13°28	12° 7	9°49	12°19	11°16	20°23	0°11	M13
T 14	13 27 18	23°43'14	18°44	10°26	oΥ 4	23°12	8°29	16° 9	13°26	12° 6	9°50	12° 7	11°13	20°29	0°14	T 14
W15	13 31 14	24°42'04	0 M .52	12°17	1°18	23°58	8°36	16°13	13°23	12° 5	9°51	11°54	11°10	20°36	0°17	W15
T 16	13 35 11	25°40'52	13° 9	14°10	2°31	24°44	8°44	16°17	13°21	12° 4	9°52	11°41	11° 6	20°43	0°21	T 16
F 17	13 39 7	26°39'38	25°35	16° 4	3°45	25°29	8°52	16°21	13°18	12° 3	9°53	11°29	11° 3	20°49	0°24	F 17
S 18	13 43 4	27°38'23	8 ∡ 12	18° 0	4°58	26°15	8°59	16°25	13°16	12° 2	9°54	11°19	11° 0	20°56	0°27	S 18
S 19	13 47 0	28°37'05	21° 0	19°58	6°12	27° 0	9° 6	16°28	13°13	12° 1	9°55	11°11	10°57	21° 3	0°31	S 19
M20	13 50 57	29°35'46	4ਰ 1	21°57	7°25	27°45	9°14	16°32	13°11	12° 0	9°56	11° 7	10°54	21° 9	0°34	M20
T 21	13 54 54	0 8 34'26	17°17	23°57	8°39	28°31	9°21	16°36	13° 8	11°59	9°58	11° 4	10°51	21°16	0°38	T 21
W22	13 58 50	1°33'03	0≈49	25°59	9°52	29°16	9°27	16°39	13° 6	11°58	9°59	11°D 4	10°47	21°23	0°41	W22
T 23	14 2 47	2°31'39	14°40	28° 2	11° 6	0 8 1	9°34	16°42	13° 4	11°57	10° 0	11°R 4	10°44	21°29	0°45	T 23
F 24	14 6 43	3°30'14	28°50	0 8 6	12°20	0°46	9°41	16°46	13° 1	11°55	10° 1	11° 3	10°41	21°36	0°49	F 24
S 25	14 10 40	4°28'46	13 米 19	2°12	13°33	1°31	9°47	16°49	12°59	11°54	10° 2	11° 1	10°38	21°43	0°53	S 25
S 26	14 14 36	5°27'17	28° 3	4°18	14°47	2°17	9°53	16°52	12°57	11°53	10° 3	10°55	10°35	21°49	0°56	S 26
M27	14 18 33	6°25'47	12 Y 58	6°26	16° 0	3° 2	9°59	16°55	12°54	11°52	10° 4	10°47	10°32	21°56	1° 0	M27
T 28	14 22 29	7°24'14	27°53	8°34	17°14	3°47	10° 5	16°58	12°52	11°50	10° 6	10°37	10°28	22° 3	1° 4	T 28
W29	14 26 26	8°22'40	12842	10°42	18°27	4°32	10°11	17° 1	12°50	11°49	10° 7	10°25	10°25	22° 9	1° 8	W29
T 30	14 30 23	9821'04	27 8 15	12851	19 Ƴ 41	5 8 16	10≈17	17≈ 3	12 ≗ 47	11 ~ 148	10 I I 8	10≈14	10≈22	22 Mp 16	19913	T 30

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W 1	4n19	17n45 5n	2 6s43	2 s22	7 s24	1 s 1 5	4n39	0s38	18 s 5 5	0 s18	16 s 5 3	0s38	4 s 5 1	0n43	20 s40	1n35	10n35	11 s26	16 s52	17 s13	1n28	17n16	6s 9
T 2	4 42	22 21 5	3 6 8	2 23	6 57	1 17	4 57	0 37	18 52	0 18	16 52	0 38	4 50	0 43	20 40	1 35	10 35	11 25	16 55	17 13	1 25	17 17	6 9
F 3	5 5	25 29 4	46 5 32	2 24	6 30	1 18	5 16	0 37	18 50	0 19	16 50	0 38	4 49	0 43	20 40	1 35	10 35	11 25	16 57	17 14	1 22	17 17	6 8
S 4	5 28	26 59 4	13 4 55	2 25	6 2	1 20	5 34	0 36	18 48	0 19	16 49	0 38	4 48	0 43	20 40	1 35	10 36	11 25	16 58	17 15	1 18	17 18	6 8
S 5	5 51	26 52 3	27 4 16	2 25	5 35	1 21	5 52	0 36	18 46	0 19	16 48	0 38	4 47	0 43	20 40	1 35	10 36	11 25	16 59	17 16	1 15	17 18	6 7
M 6	6 14	25 19 2 3	32 3 37	2 25	5 7	1 23	6 10	0 35	18 44	0 19	16 46	0 39	4 46	0 43	20 40	1 35	10 36	11 24	17 0	17 17	1 12	17 18	6 7
T 7	6 37	22 33 1 3	31 2 57	2 24	4 39	1 24	6 28	0 34	18 42	0 19	16 45	0 39	4 45	0 43	20 40	1 35	10 37	11 24	17 0	17 18	1 9	17 19	6 7
W 8	6 59	18 50 0 2	28 2 15	2 22	4 12	1 25	6 46	0 34	18 40	0 19	16 44	0 39	4 44	0 43	20 40	1 36	10 37	11 24	16 59	17 19	1 5	17 19	6 6
T 9	7 22	14 25 0 s	36 1 33	2 20	3 43	1 26	7 4	0 33	18 37	0 20	16 43	0 39	4 43	0 43	20 39	1 36	10 37	11 24	16 59	17 20	1 2	17 20	6 6
F 10	7 44	9 31 1 3	37 0 49	2 18	3 15	1 27	7 22	0 33	18 35	0 20	16 41	0 39	4 42	0 43	20 39	1 36	10 38	11 23	17 0	17 20	0 59	17 20	6 5
S 11	8 6	4 17 2 3	34 0 5	2 15	2 47	1 28	7 40	0 32	18 33	0 20	16 40	0 39	4 41	0 43	20 39	1 36	10 38	11 23	17 1	17 21	0 56	17 20	6 5
S 12	8 28	1 s 5 3	24 0n40	2 12	2 19	1 29	7 58	0 31		0 20	16 39	0 39	4 40	0 43	20 39		10 38			17 22		17 21	6 5
M13	8 50	6 26 4	6 1 27	2 8	1 50	1 30	8 15	0 31	18 29	0 20	16 38	0 40	4 39	0 43	20 39	1 36	10 39	11 23	17 6	17 23	0 49	17 21	6 4
T 14			37 2 14		1 22	1 31	8 33		18 28	0 20		0 40	4 38		20 39			-		-		17 22	6 4
W15	9 34	16 23 4 :	55 3 2	1 59	0 53	1 31	8 50	0 30	18 26	0 21	16 36	0 40	4 37	0 43	20 39	1 36					0 43	17 22	6 3
T 16		20 33 5	1 3 50	1 54	0 24	1 32	9 7	0 29		0 21	16 35	0 40	4 37		20 38	1 36						17 22	6 3
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S 18	10 38	26 5 4	29 5 30	1 41	0 33	1 33	9 41	0 28	18 20	0 21	16 33	0 40	4 35	0 43	20 38	1 36	10 40	11 22	17 22	17 27	0 33	17 23	6 2
S 19	10 59	26 59 3 :	52 6 21	1 34	1 2	1 33	9 58	0 27	18 18	0 21	16 32	0 40	4 34	0 43	20 38	1 36	10 41	11 22	17 24	17 28	0 30	17 23	6 2
M20	11 19	26 24 3	3 7 12	1 27	1 31	1 34	10 15	0 27	18 17	0 21	16 31	0 40	4 33	0 43	20 38	1 36	10 41	11 21	17 26	17 29	0 27	17 24	6 2
T 21	11 40	24 20 2	2 8 3	1 19	1 59	1 34	10 32		18 15	0 22		0 41	4 32	0 43	20 37	1 36	-				0 23	17 24	6 1
W22		20 50 0 :	54 8 55	1 11	2 28	1 34	10 49	0 25	18 13	0 22	16 29	0 41	4 31	0 43	20 37	1 36	10 42	11 21	17 26	17 31	0 20	17 24	6 1
T 23	12 21	16 7 0n	19 9 48	1 2	2 57	1 34	11 5	0 25	18 12	0 22	16 28	0 41	4 30	0 43	20 37	1 36	10 42				0 17	17 25	6 1
F 24		10 25 1 3	33 10 40	0 53	3 25	1 34	11 21	0 24	18 10	0 22	16 27	0 41	4 29	0 43	20 37	1 36	10 42	11 21	17 27	17 33	0 14	17 25	6 0
S 25	13 0	4 4 2	42 11 32	0 44	3 54	1 34	11 38	0 24	18 9	0 22	16 26	0 41	4 28	0 43	20 37	1 36	10 43	11 20	17 27	17 34	0 10	17 25	6 0
S 26	13 20		41 12 25		4 22	1 34	-	0 23		0 22		0 41	4 27		20 37		10 43	-			0 7	17 26	6 0
M27	13 39	9 12 4 2		0 24	4 51		12 10	0 22		0 23		0 41	4 26		20 36		10 43				0 4	-,	5 59
T 28			53 14 8	0 14	5 19		12 26	0 22		0 23		0 42	4 25		20 36		10 44	-				17 26	5 59
W29	14 17	-	0 14 58	0 3	5 47		12 41	0 21	18 3	0 23		0 42	4 25		20 36	1 36	-	-				17 27	5 59
T 30	14n36	24n11 4n4	47 15n48	0n 7	6n16	1 s33	12n57	0 s 2 0	18s 2	0 s23	16 s23	0 s42	4 s24	0n43	20s36	1n36	10n44	11 s20	17 s40	17 s38	0s 6	17n27	5 s58

 $\label{eq:Julian Day Number = 2502403.5, Delta T = 114.58 sec} \\ Ecliptic obliquity = 23°25'23, Nutation = 0°00'12, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°41'09, Lahiri = 25°48'10 \\$

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F 1	14 34 19	10819'26	11 II 25	15 8 0	20 Υ 54	6 8 1	10≈22	17≈ 6	12°R45	11°R47	10 I 9	10°R 4	10≈19	22 m/23	19917	F 1
S 2	14 38 16	11°17'47	25° 8	17° 9	22° 8	6°46	10°27	17° 9	12 ≏ 43	11 ∡ 745	10°10	9 ≈ 56	10°16	22°29	1°21	S 2
S 3	14 42 12	12°16'05	8923	19°17	23°22	7°31	10°32	17°11	12°41	11°44	10°12	9°51	10°12	22°36	1°25	S 3
M 4	14 46 9	13°14'21	21°13	21°24	24°35	8°16	10°37	17°14	12°39	11°43	10°13	9°48	10° 9	22°43	1°29	M 4
T 5	14 50 5	14°12'35	3 Ω 40	23°30	25°49	9° 0	10°42	17°16	12°37	11°41	10°14	9°47	10° 6	22°50	1°34	T 5
W 6	14 54 2	15°10'47	15°49	25°34	27° 2	9°45	10°47	17°18	12°35	11°40	10°15	9°47	10° 3	22°56	1°38	W 6
T 7	14 57 59	16° 8'57	27°46	27°37	28°16	10°29	10°51	17°20	12°33	11°38	10°16	9°47	10° 0	23° 3	1°43	T 7
F 8	15 1 55	17° 7'05	9 ₥ 37	29°37	29°29	11°14	10°55	17°22	12°31	11°37	10°18	9°45	9°57	23°10	1°47	F 8
S 9	15 5 52	18° 5'11	21°25	1Д36	0 8 43	11°58	11° 0	17°24	12°29	11°36	10°19	9°41	9°53	23°16	1°52	S 9
S 10	15 948	19° 3'16	3 ≙ 17	3°32	1°56	12°43	11° 3	17°26	12°27	11°34	10°20	9°35	9°50	23°23	1°56	S 10
M11	15 13 45	20° 1'18	15°15	5°25	3°10	13°27	11° 7	17°28	12°25	11°33	10°22	9°26	9°47	23°30	2° 1	M11
T 12	15 17 41	20°59'19	27°23	7°15	4°23	14°11	11°11	17°29	12°23	11°31	10°23	9°14	9°44	23°36	2° 6	T 12
W13	15 21 38	21°57'18	9 M .41	9° 2	5°37	14°55	11°14	17°31	12°21	11°30	10°24	9° 2	9°41	23°43	2°11	W13
T 14	15 25 34	22°55'15	22°12	10°46	6°50	15°39	11°17	17°32	12°19	11°28	10°26	8°49	9°38	23°50	2°15	T 14
F 15	15 29 31	23°53'11	4 ₹ 756	12°27	8° 4	16°24	11°20	17°34	12°18	11°27	10°27	8°37	9°34	23°56	2°20	F 15
S 16	15 33 27	24°51'05	17°51	14° 4	9°17	17° 8	11°23	17°35	12°16	11°25	10°28	8°27	9°31	24° 3	2°25	S 16
S 17	15 37 24	25°48'58	0 궁 58	15°38	10°31	17°52	11°26	17°36	12°14	11°24	10°29	8°19	9°28	24°10	2°30	S 17
M18	15 41 21	26°46'50	14°16	17° 8	11°44	18°36	11°28	17°37	12°13	11°22	10°31	8°15	9°25	24°16	2°35	M18
T 19	15 45 17	27°44'40	27°44	18°35	12°58	19°19	11°31	17°38	12°11	11°20	10°32	8°12	9°22	24°23	2°40	T 19
W20	15 49 14	28°42'29	11≈25	19°58	14°11	20° 3	11°33	17°39	12°10	11°19	10°33	8°D12	9°18	24°30	2°45	W20
T 21	15 53 10	29°40'17	25°16	21°17	15°25	20°47	11°35	17°40	12° 8	11°17	10°35	8°R12	9°15	24°36	2°50	T 21
F 22	15 57 7	0 Ⅲ 38'04	9 ∺ 20	22°33	16°38	21°31	11°36	17°40	12° 7	11°16	10°36	8°12	9°12	24°43	2°55	F 22
S 23	16 1 3	1°35'50	23°36	23°44	17°52	22°15	11°38	17°41	12° 5	11°14	10°38	8°10	9° 9	24°50	3° 0	S 23
S 24	16 5 0	2°33'34	8 ℃ 0	24°52	19° 5	22°58	11°39	17°41	12° 4	11°13	10°39	8° 6	9° 6	24°56	3° 6	S 24
M25	16 8 57	3°31'18	22°31	25°56	20°19	23°42	11°40	17°42	12° 3	11°11	10°40	8° 0	9° 3	25° 3	3°11	M25
T 26	16 12 53	4°29'01	7 8 2	26°56	21°33	24°25	11°41	17°42	12° 1	11° 9	10°42	7°51	8°59	25°10	3°16	T 26
W27	16 16 50	5°26'42	21°27	27°52	22°46	25° 9	11°42	17°42	12° 0	11° 8	10°43	7°42	8°56	25°17	3°21	W27
T 28	16 20 46	6°24'22	5 Ⅱ 41	28°44	24° 0	25°52	11°43	17°R42	11°59	11° 6	10°44	7°32	8°53	25°23	3°27	T 28
F 29	16 24 43	7°22'01	19°36	29°32	25°13	26°36	11°43	17°42	11°58	11° 4	10°46	7°23	8°50	25°30	3°32	F 29
S 30	16 28 39	8°19'39	39510	09915	26°27	27°19	11°43	17°42	11°57	11° 3	10°47	7°17	8°47	25°37	3°37	S 30
S 31	16 32 36	9 Ⅱ 17'16	169521	0954	27840	28 8 2	11°R43	17≈42	11 ≏ 56	11 ⁄ 7 1	10 Ⅱ 48	7≈13	8≈44	25 m 43	39543	S 31

Day	0	D	ğ	ς	2	♂	2	ŀ	ħ	ı)į	γ(4		Р	ß	Ω	Ç	Š	j
	decl	decl lat	decl	lat decl	lat dec	lat	decl	lat	decl	lat	decl	lat	decl lat	de	ecl lat	decl	decl	decl	decl	lat
F 1 S 2			7 16n37 3 17 24	0n18 6n44 0 29 7 11	1 s32 13n1 1 32 13 2		18s 0 17 59	0 s23 0 24		0 s42 0 42	4 s23 4 22	-			45 11 s19 45 11 19				17n27 17 27	5 s58 5 58
S 3 M 4	15 30 15 48	23 21 1 3		0 39 7 39 0 50 8 7	1 31 13 4 1 31 13 5	8 0 18	17 58 17 57	0 24		0 42 0 42	4 21 4 20	0 42	20 35 1	36 10	45 11 19 46 11 19	17 47	17 41	0 19	17 28 17 28	5 57 5 57
T 5 W 6 T 7	16 6 16 23 16 40	15 35 0s3	2 19 36 2 20 16 4 20 54	1 0 8 34 1 10 9 1 1 19 9 28	1 30 14 1 1 29 14 2 1 28 14 4	8 0 17	17 56 17 54 17 53	0 24	16 20 16 19 16 19	0 43 0 43 0 43	4 20 4 19 4 18	0 42	20 35 1	36 10	46 11 19 46 11 19 47 11 19	17 47	17 43	0 25	17 28 17 28 17 29	5 57 5 56 5 56
F 8 S 9	16 56 17 12		1 21 30 1 22 3	1 28 9 55 1 37 10 22	1 28 14 5 1 27 15 1	7 0 15	17 52 17 52	0 25		0 43 0 43	4 17 4 17	-			47 11 18 47 11 18				17 29 17 29	5 56 5 56
S 10 M11 T 12	17 28 17 44 17 59	10 13 4 3	3 22 34 5 23 2 4 23 27	1 45 10 48 1 52 11 14 1 59 11 40	1 26 15 2 1 24 15 3 1 23 15 5	0 13	17 51 17 50 17 49	0 25 0 25 0 25	16 17	0 43 0 43 0 44	4 16 4 15 4 15	0 42	20 34 1	36 10	47 11 18 48 11 18 48 11 18	17 53	17 47	0 41	17 29 17 29 17 30	5 55 5 55 5 55
W13 T 14 F 15	18 15 18 29	19 27 5 23 1 4 5	1 23 50 3 24 11	2 5 12 6 2 10 12 31	1 22 16 1 21 16 2	7 0 12 0 0 11	17 48 17 48	0 26 0 26	16 16 16 16	0 44 0 44	4 14 4 13	0 42 0 42	20 33 1 20 33 1	37 10 37 10	48 11 18 49 11 18 49 11 18	17 59 18 3	17 49 17 50	0 48 0 51	17 30 17 30	5 55 5 54
S 16	18 58	26 44 3 5	0 24 29 3 24 45	2 14 12 56 2 18 13 21	1 20 16 3 1 18 16 4	0 10	17 47 17 46	0 26	16 15	0 44 0 44	4 13 4 12	0 42	20 32 1	37 10	49 11 18	18 8	17 51 17 51	0 57	17 30 17 30	5 54 5 54
S 17 M18 T 19		24 42 2 21 30 0 5	4 24 58 3 25 9 5 25 18	2 20 13 45 2 22 14 9 2 23 14 33	1 17 16 5 1 15 17 1 1 14 17 2	2 0 9 5 0 8		0 27 0 27	16 15	0 44 0 45 0 45	4 11 4 10	0 42 0 42	20 32 1 20 32 1	37 10 37 10	49 11 17 50 11 17 50 11 17	18 12 18 12	17 53 17 54	1 4 1 7	17 30 17 30 17 30	5 54 5 54 5 53
W20 T 21 F 22 S 23	19 51 20 4 20 16 20 28	11 41 1 2 5 38 2 3	7 25 25 9 25 30 8 25 33 7 25 34	2 23 14 56 2 22 15 19 2 20 15 42 2 18 16 4	1 12 17 3 1 11 17 5 1 9 18 1 7 18 1	0 0 7 2 0 6	17 45 17 44 17 44 17 44	0 27 0 27	16 15 16 15 16 15 16 15	0 45 0 45 0 45 0 45	4 9 4 8	0 42 0 42	20 31 1 20 31 1	37 10 37 10	50 11 17 50 11 17 51 11 17 51 11 17	18 12 18 12	17 56 17 56	1 14 1 17	17 31 17 31 17 31 17 31	5 53 5 53 5 53 5 53
S 24 M25	20 28 20 39 20 51	7 12 4 2	3 25 34 2 25 31	2 18 16 4 2 14 16 26 2 10 16 47	1 6 18 2 1 4 18 3	5 0 5	17 43	0 28 0 28 0 28	16 15	0 45 0 46		0 42	20 31 1	37 10	51 11 17 51 11 17 51 11 17	18 14	17 58	1 23	17 31 17 31 17 31	5 52 5 52
T 26 W27 T 28		22 51 4 5	3 25 28 5 25 23 8 25 16	2 4 17 8 1 58 17 29 1 51 17 49	1 2 18 4 1 0 18 5 0 58 19 1	0 3		0 28 0 29 0 29	16 15	0 46 0 46 0 46	4 6 4 6 4 6	0 42	20 30 1	37 10	52 11 17 52 11 17 52 11 17	18 20	18 1	1 33	17 31 17 31 17 31	5 52 5 52 5 52
F 29	21 31	26 46 3 4	6 25 8 1 24 59	1 43 18 9 1 34 18 28	0 56 19 2 0 54 19 3	0 2	17 43	0 29		0 46 0 46	4 5	0 42	20 30 1	37 10	52 11 17 52 11 17 53 11 17	18 25	18 2	1 39	17 31 17 31	5 52 5 51
S 31	21n50	24n14 1n4	9 24n49	1n24 18n47	0s52 19n4	0 s 0	17 s44	0 s29	16s15	0 s47	4s 4	0n42	20 s29 11	n37 10n	11s16	$18\mathrm{s}27$	18s 4	1 s46	17n31	5 s 5 1

Julian Day Number = 2502433.5, Delta T = 114.63 sec Ecliptic obliquity = 23°25'22, Nutation = $0^\circ00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^\circ41'14$, Lahiri = $25^\circ48'14$

JUNE 2139 00:00 UT

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Day	Sid.t	0	D	ğ	Q.	ð	4	ħ)Å(并	Р	r	v	Ç	ķ	Day
M 1	16 36 32	10 Ⅱ 14'51	2995 8	19529	28 8 54	28 8 45	11°R43	17°R42	11°R55	11°R 0	10 II 50	7°R11	8≈40	25 m 50	39548	M 1
T 2	16 40 29	11°12'25	11 Ω 36	1°59	0 I 7	29°29	11≈43	17≈41	11 ≏ 54	10 ₹ 58	10°51	7°D10	8°37	25°57	3°54	T 2
W 3	16 44 26	12° 9'57	23°47	2°25	1°21	0耳12	11°42	17°41	11°53	10°56	10°53	7≈11	8°34	26° 3	3°59	W 3
T 4	16 48 22	13° 7'29	5 M)46	2°46	2°34	0°55	11°42	17°40	11°52	10°55	10°54	7°12	8°31	26°10	4° 5	T 4
F 5	16 52 19	14° 4'58	17°39	3° 2	3°48	1°38	11°41	17°39	11°51	10°53	10°55	7°R12	8°28	26°17	4°10	F 5
S 6	16 56 15	15° 2'27	29°29	3°14	5° 1	2°21	11°39	17°39	11°50	10°51	10°57	7°11	8°24	26°23	4°16	S 6
S 7	17 0 12	15°59'54	11 ≏ 23	3°21	6°15	3° 3	11°38	17°38	11°50	10°50	10°58	7° 8	8°21	26°30	4°21	S 7
M 8	17 4 8	16°57'20	23°25	3°R24	7°28	3°46	11°37	17°37	11°49	10°48	10°59	7° 3	8°18	26°37	4°27	M 8
T 9	17 8 5	17°54'45	5 M 39	3°22	8°42	4°29	11°35	17°36	11°49	10°47	11° 1	6°56	8°15	26°43	4°33	T 9
W10	17 12 1	18°52'09	18° 6	3°15	9°56	5°12	11°33	17°34	11°48	10°45	11° 2	6°48	8°12	26°50	4°38	W10
T 11	17 15 58	19°49'32	0 才 50	3° 4	11° 9	5°54	11°31	17°33	11°48	10°43	11° 3	6°39	8° 9	26°57	4°44	T 11
F 12	17 19 55	20°46'54	13°50	2°50	12°23	6°37	11°29	17°32	11°47	10°42	11° 5	6°32	8° 5	27° 4	4°50	F 12
S 13	17 23 51	21°44'15	27° 5	2°31	13°36	7°20	11°26	17°30	11°47	10°40	11° 6	6°25	8° 2	27°10	4°55	S 13
S 14	17 27 48	22°41'36	10 궁 34	2° 9	14°50	8° 2	11°24	17°29	11°46	10°39	11° 7	6°21	7°59	27°17	5° 1	S 14
M15	17 31 44	23°38'56	24°16	1°44	16° 3	8°45	11°21	17°27	11°46	10°37	11° 9	6°18	7°56	27°24	5° 7	M15
T 16	17 35 41	24°36'15	8≈ 7	1°16	17°17	9°27	11°18	17°25	11°46	10°36	11°10	6°D18	7°53	27°30	5°12	T 16
W17	17 39 37	25°33'34	22° 6	0°45	18°30	10° 9	11°15	17°24	11°46	10°34	11°12	6°18	7°50	27°37	5°18	W17
T 18	17 43 34	26°30'52	6 ∺ 11	0°13	19°44	10°52	11°11	17°22	11°46	10°32	11°13	6°20	7°46	27°44	5°24	T 18
F 19	17 47 30	27°28'10	20°20	29 Ⅱ 40	20°58	11°34	11° 8	17°20	11°46	10°31	11°14	6°21	7°43	27°50	5°30	F 19
S 20	17 51 27	28°25'28	4 Υ32	29° 6	22°11	12°16	11° 4	17°18	11°D46	10°29	11°15	6°R21	7°40	27°57	5°36	S 20
S 21	17 55 24	29°22'45	18°44	28°32	23°25	12°58	11° 0	17°15	11°46	10°28	11°17	6°19	7°37	28° 4	5°41	S 21
M22	17 59 20	0920'02	2 8 55	27°58	24°38	13°40	10°56	17°13	11°46	10°26	11°18	6°16	7°34	28°10	5°47	M22
T 23	18 3 17	1°17'19	17° 1	27°26	25°52	14°22	10°52	17°11	11°46	10°25	11°19	6°12	7°30	28°17	5°53	T 23
W24	18 7 13	2°14'36	0耳59	26°55	27° 6	15° 4	10°48	17° 8	11°46	10°23	11°21	6° 7	7°27	28°24	5°59	W24
T 25	18 11 10	3°11'53	14°45	26°26	28°19	15°46	10°43	17° 6	11°46	10°22	11°22	6° 2	7°24	28°31	6° 5	T 25
F 26	18 15 6	4° 9'09	28°17	26° 0	29°33	16°28	10°39	17° 3	11°47	10°20	11°23	5°57	7°21	28°37	6°11	F 26
S 27	18 19 3	5° 6'25	119532	25°37	0গু47	17°10	10°34	17° 1	11°47	10°19	11°25	5°54	7°18	28°44	6°16	S 27
S 28	18 23 0	6° 3'40	24°29	25°17	2° 0	17°52	10°29	16°58	11°47	10°18	11°26	5°52	7°15	28°51	6°22	S 28
M29	18 26 56	7° 0'55	7 Ω 9	25° 1	3°14	18°33	10°24	16°55	11°48	10°16	11°27	5°D52	7°11	28°57	6°28	M29
T 30	18 30 53	7958'10	$19\Omega 32$	24∏49	49528	19 Ⅱ 15	10≈18	16≈52	11 ≏ 48	10 × 15	11 Ⅱ 28	5≈52	7≈ 8	29 m 4	6934	T 30

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	decl	decl lat	dec	l lat	decl	lat dec	lat	decl	lat	decl	lat	decl	lat	decl l	at	decl	lat	decl	decl	decl	decl	lat
M 1 T 2	21n58 22 6)n43 24n3)s24 24 2			0s50 19n5 0 48 20	2 On 0 2 O 1	17 s44 17 44	0 s30 0 30		0 s47 0 47	4s 4 4 4		20 s29 20 29	1n37 1 37	10n53 10 53				-	17n31 17 31	5 s51 5 51
W 3 T 4	22 14 22 21		28 <mark>24 1</mark> 27 24	0 49		0 46 20 1 0 44 20 2		17 45 17 45	0 30 0 30	16 16 16 17	0 47 0 47	4 3 4 3	-	20 28 20 28			-				17 31 17 31	5 51 5 51
F 5 S 6	22 28 22 35		3 20 23 4 4 4 23 3	-	2 20 13 20 28	0 42 20 3 0 39 20 4	0 3	17 46 17 46	0 30 0 31	16 17 16 17	0 47 0 47	4 3 4 3		20 28 20 28		10 54 10 54					17 31 17 31	5 51 5 51
S 7 M 8	22 41 22 47	13 43 4	1 37 23 1 1 59 22 5	9 0 2	3 20 44 20 58	0 37 20 4 0 35 20 5	8 0 5	17 47	0 31 0 31	16 18	0 48 0 48	4 2 4 2	0 41	20 27	1 37	10 54 10 55	11 16	18 30	18 11		17 31	5 51 5 51
T 9 W10 T 11	22 57	18 13 5 22 2 5 24 53 4		7 0 5	21 12 5 21 25 8 21 38	0 33 21 0 30 21 1 0 28 21 2	0 6	17 48 17 49 17 49	0 31	16 19 16 19 16 20	0 48 0 48 0 48	4 2	0 41	20 27	1 37	10 55 10 55 10 55	11 16	18 34	18 12	2 18	17 30 17 30 17 30	5 50 5 50 5 50
F 12 S 13	23 6	26 30 4	5 21 5 3 16 21 3	3 1 3	21 50 22 2	0 26 21 3 0 23 21 3	0 7	17 50 17 51	0 32	16 20 16 21	0 48 0 49	4 2	0 41	20 27	1 37		11 16	18 38	18 14	2 24	17 30 17 30	5 50 5 50
S 14 M15	-	22 19 1		3 2 2	2 22 23	0 21 21 4 0 19 21 5	4 0 9	17 52 17 53	0 33		0 49 0 49	4 1	0 41	20 26	1 36		11 16	18 41	18 16	2 33	17 30 17 30	5 50 5 50
T 16 W17 T 18	23 19 23 21 23 23	12 48 1	0n10 20 4 1 25 20 3 2 35 20 1	1 2 5	3 22 33 4 22 42 9 22 50	0 16 22 0 14 22 0 12 22 1	8 0 11	17 54 17 55 17 56	0 33	16 23 16 23 16 24	0 49 0 49 0 49	4 1 4 1 4 1		20 26 20 25 20 25	1 36	10 56 10 56 10 56	11 16	18 41	18 18	2 40	17 29 17 29 17 29	5 50 5 50 5 50
F 19 S 20	23 24 23 25		3 36 20 4 24 19 4		3 22 58 7 23 5	0 9 22 2 0 7 22 2		17 57 17 59		16 25 16 26	0 49 0 50			20 25 20 25		10 56 10 56					17 29 17 28	5 50 5 50
S 21 M22 T 23	23 25	-	5 7 19 3 5 10 19 2 5 5 19 1	4 4	23 11 23 17 23 22	0 4 22 3 0 2 22 3 0n 0 22 4	0 14	18 1	0 34	16 27 16 27 16 28	0 50 0 50 0 50	4 1	0 41	20 25	1 36	10 57 10 57 10 57	11 16	18 41	18 22	2 56	17 28 17 28 17 28	5 50 5 50 5 50
W24 T 25	23 24		1 42 19	5 4 1	23 26 23 30	0 3 22 5 0 5 22 5	0 15	18 4	0 34 0 35	16 29 16 30	0 50 0 50	4 2 4 2	0 41	20 24 20 24	1 36 1 36	10 57 10 57	11 17 11 17	18 44 18 45	18 24 18 24	3 2	17 27 17 27	5 50 5 50
F 26 S 27	23 21 23 19		3 11 18 5 2 9 18 4		23 33 23 23 35	0 8 23 0 10 23	0 16			16 31 16 32	0 50 0 51	4 2 4 2		20 24 20 24		10 57 10 57					17 27 17 27	5 50 5 50
S 28 M29 T 30	23 14	18 22 0	2 18 4 0s 7 18 4 1s14 18n4	2 4 3	7 23 37 8 23 38 7 23n38	0 12 23 1 0 15 23 1 0n17 23n1	0 18	18 10 18 12 18 s13	0 35	16 33 16 34 16s35	0 51 0 51 0 s51	4 2 4 3 4s 3	0 40		1 36	10 57 10 57 10n58	11 17	18 48		3 18	17 26 17 26 17n26	5 50 5 50 5 s50

 $\label{eq:Julian Day Number = 2502464.5, Delta T = 114.69 sec} \\ Ecliptic obliquity = 23°25'21, Nutation = 0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°41'18, Lahiri = 25°48'18} \\$

JULY 2139 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(¥	Р	n	Ω	Ç	к 0	Day
W 1	18 34 49	8955'24	1 m 41	24°R42	59541	19 Ⅱ 57	10°R13	16°R49	11 ≏ 49	10°R13	11 Ⅲ 30	5≈54	7≈ 5	29 m)11	69540	W 1
T 2	18 38 46	9°52'38	13°40	24°D39	6°55	20°38	10≈ 7	16 ≈ 46	11°50	10 × 12	11°31	5°55	7° 2	29°17	6°46	T 2
F 3	18 42 42	10°49'51	25°33	24∏41	8° 9	21°20	10° 1	16°43	11°50	10°11	11°32	5°57	6°59	29°24	6°51	F 3
S 4	18 46 39	11°47'04	7 ≏ 25	24°48	9°23	22° 1	9°56	16°40	11°51	10° 9	11°33	5°R58	6°56	29°31	6°57	S 4
S 5	18 50 35	12°44'16	19°20	25° 0	10°36	22°42	9°50	16°37	11°52	10° 8	11°34	5°58	6°52	29°38	7° 3	S 5
M 6	18 54 32	13°41'29	1 M 23	25°17	11°50	23°24	9°43	16°33	11°53	10° 7	11°36	5°56	6°49	29°44	7° 9	M 6
T 7	18 58 29	14°38'40	13°38	25°38	13° 4	24° 5	9°37	16°30	11°54	10° 5	11°37	5°54	6°46	29°51	7°15	T 7
W 8	19 2 25	15°35'52	26°10	26° 5	14°17	24°46	9°31	16°27	11°55	10° 4	11°38	5°52	6°43	29°58	7°21	W 8
T 9	19 6 22	16°33'04	9 ∡ 7 0	26°37	15°31	25°27	9°24	16°23	11°56	10° 3	11°39	5°49	6°40	0요 4	7°26	T 9
F 10	19 10 18	17°30'15	22°11	27°13	16°45	26° 9	9°18	16°19	11°57	10° 2	11°40	5°46	6°36	0°11	7°32	F 10
S 11	19 14 15	18°27'26	5 七 43	27°55	17°59	26°50	9°11	16°16	11°58	10° 1	11°41	5°44	6°33	0°18	7°38	S 11
S 12	19 18 11	19°24'38	19°33	28°41	19°12	27°31	9° 4	16°12	11°59	9°59	11°43	5°43	6°30	0°24	7°44	S 12
M13	19 22 8	20°21'49	3 ≈ 39	29°32	20°26	28°12	8°57	16° 8	12° 0	9°58	11°44	5°D43	6°27	0°31	7°50	M13
T 14	19 26 4	21°19'01	17°57	0928	21°40	28°52	8°50	16° 5	12° 1	9°57	11°45	5°43	6°24	0°38	7°55	T 14
W15	19 30 1	22°16'13	2) 22	1°28	22°54	29°33	8°43	16° 1	12° 3	9°56	11°46	5°44	6°21	0°44	8° 1	W15
T 16	19 33 58	23°13'25	16°49	2°33	24° 8	09514	8°36	15°57	12° 4	9°55	11°47	5°44	6°17	0°51	8° 7	T 16
F 17	19 37 54	24°10'38	1 Υ 14	3°43	25°21	0°55	8°29	15°53	12° 5	9°54	11°48	5°45	6°14	0°58	8°12	F 17
S 18	19 41 51	25° 7'52	15°33	4°57	26°35	1°36	8°22	15°49	12° 7	9°53	11°49	5°46	6°11	1° 5	8°18	S 18
S 19	19 45 47	26° 5'06	29°43	6°16	27°49	2°16	8°14	15°45	12° 8	9°52	11°50	5°R46	6° 8	1°11	8°24	S 19
M20	19 49 44	27° 2'21	13 8 43	7°38	29° 3	2°57	8° 7	15°41	12°10	9°51	11°51	5°46	6° 5	1°18	8°30	M20
T 21	19 53 40	27°59'36	27°31	9° 6	0 Ω 17	3°37	7°59	15°37	12°11	9°50	11°52	5°45	6° 2	1°25	8°35	T 21
W22	19 57 37	28°56'53	11 II 5	10°37	1°31	4°18	7°52	15°33	12°13	9°49	11°53	5°44	5°58	1°31	8°41	W22
T 23	20 1 33	29°54'10	24°26	12°12	2°45	4°58	7°44	15°28	12°15	9°48	11°54	5°44	5°55	1°38	8°46	T 23
F 24	20 5 30	0 \Omega 51'27	7933	13°51	3°59	5°39	7°36	15°24	12°16	9°47	11°55	5°43	5°52	1°45	8°52	F 24
S 25	20 9 27	1°48'46	20°26	15°34	5°12	6°19	7°29	15°20	12°18	9°46	11°56	5°43	5°49	1°51	8°58	S 25
S 26	20 13 23	2°46'05	3 Ω 5	17°20	6°26	7° 0	7°21	15°16	12°20	9°46	11°57	5°D42	5°46	1°58	9° 3	S 26
M27	20 17 20	3°43'24	15°31	19°10	7°40	7°40	7°13	15°11	12°22	9°45	11°58	5°42	5°42	2° 5	9° 9	M27
T 28	20 21 16	4°40'44	27°45	21° 3	8°54	8°20	7° 5	15° 7	12°24	9°44	11°59	5°43	5°39	2°12	9°14	T 28
W29	20 25 13	5°38'04	9 m /49	22°58	10° 8	9° 0	6°58	15° 3	12°26	9°43	12° 0	5°R43	5°36	2°18	9°20	W29
T 30	20 29 9	6°35'25	21°45	24°56	11°22	9°40	6°50	14°58	12°28	9°43	12° 1	5°43	5°33	2°25	9°25	T 30
F 31	20 33 6	7 Ω 32'47	3 ≏ 37	26955	12 N 36	109520	6≈42	14≈54	12 ≏ 30	9 ∡ 742	12 I 1	5≈42	5≈30	2 ₾ 32	9931	F 31

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W 1 T 2	23n 7 23 3		17 18n44 13 18 47	4s36 23n37 4 33 23 36	0n19 23n22 0 22 23 26	0n20 18s 0 20 18			s51 51		0n40 20 si 0 40 20 si		10n58 11s17 10 58 11 17				17n25 17 25	5 s 5 1 5 5 1
F 3 S 4	22 59 22 54	1 s54 4 7 10 4	0 18 51 37 18 56	4 28 23 34 4 23 23 32	0 24 23 29 0 26 23 32	0 21 18 0 22 18			51 52		0 40 20 1 0 40 20 1		10 58 11 17 10 58 11 17				17 24 17 24	5 51 5 51
S 5 M 6 T 7	_		2 19 3 14 19 11 12 19 20		0 28 23 36 0 31 23 38 0 33 23 41	0 22 18 0 23 18 0 24 18	24 0 37	16 41 0	52 52 52	4 5	0 40 20 1 0 40 20 1 0 40 20 1	22 1 36	10 58 11 17 10 58 11 17 10 58 11 17	18 46	18 33		17 24 17 23 17 23	5 51 5 51 5 51
W 8 T 9 F 10	22 31 22 24	24 4 4 26 8 4	55 19 30 24 19 41 38 19 52	3 52 23 14 3 42 23 8	0 35 23 43 0 37 23 45 0 39 23 47	0 24 18 0 24 18 0 25 18 0 25 18	27 0 37 29 0 37	16 44 0 16 45 0	52 52 52 52	4 5 4 6	0 40 20 1 0 40 20 1 0 40 20 1	22 1 36 22 1 36	10 58 11 17 10 58 11 18 10 58 11 18 10 58 11 18	18 48 18 48	18 35 18 36	3 46 3 49	17 22 17 22 17 22 17 22	5 51 5 51 5 51
S 11	22 9	25 56 2	38 20 4	3 20 22 54	0 41 23 49	0 26 18	33 0 38	16 47 0	53	4 7	0 40 20	21 1 36	10 58 11 18	18 49	18 37	3 56	17 21	5 52
_	21 53	19 30 0	28 20 17 11 20 29 1 7 20 42	2 56 22 37	0 43 23 51 0 46 23 52 0 48 23 53	0 27 18 0 27 18 0 28 18	37 0 38	16 50 0	53 53 53	4 8	0 40 20 1 0 40 20 1 0 40 20 1	21 1 36	10 58 11 18 10 58 11 18 10 58 11 18	18 50	18 39	4 2	17 21 17 20 17 20	5 52 5 52 5 52
W15 T 16 F 17 S 18	21 35 21 26 21 16 21 6	8 25 2 2 2 0 3 3 4n29 4 3 10 41 4	28 21 7	2 17 22 7 2 4 21 55	0 49 23 54 0 51 23 55 0 53 23 55 0 55 23 55	0 29 18 0 29 18 0 30 18 0 30 18	43 0 39 45 0 39	16 53 0 16 55 0	53 53 53 53	4 9 4 10	0 40 20 1 0 40 20 1 0 40 20 1 0 40 20 1	21 1 36 21 1 35	10 58 11 18 10 58 11 18 10 58 11 18 10 58 11 19	18 49 18 49	18 41 18 42	4 14	17 19 17 19 17 18 17 18	5 52 5 52 5 53 5 53
S 19 M20 T 21	20 55	16 16 5 20 56 5	15 21 40 14 21 50 54 21 58	1 36 21 31 1 23 21 17	0 57 23 55 0 59 23 55 1 0 23 55	0 31 18 0 32 18 0 32 18	49 0 39 52 0 39	16 57 0 16 59 0	54 54 54	4 11 4 12	0 40 20 1 0 39 20 1 0 39 20 1	20 1 35 20 1 35	10 58 11 19 10 58 11 19 10 58 11 19	18 49 18 49	18 44 18 44	4 21 4 24	17 17 17 17 17 16	5 53 5 53 5 53
W22 T 23		26 47 3	18 22 5 29 22 10	0 42 20 34	1 2 23 54 1 4 23 53	0 33 18 0 34 18	58 0 40	17 3 0	54	4 14	0 39 20 1 0 39 20 1	20 1 35	10 58 11 19 10 58 11 19	18 50	18 47	4 33	17 15 17 15	5 54 5 54
F 24 S 25			30 22 14 24 22 15		1 5 23 52 1 7 23 51	0 34 19 0 35 19	0 0 40 2 0 40		54 54		0 39 20 1		10 58 11 19 10 58 11 20				17 14 17 14	5 54 5 54
S 26 M27 T 28	19 18	15 19 0s	15 22 15 54 22 12 59 22 7	0n 9 19 28	1 8 23 50 1 10 23 48	0 35 19 0 36 19	4 0 40 6 0 40	17 8 0	-	4 17	0 39 20 : 0 39 20 :	20 1 35	10 58 11 20 10 58 11 20	18 50	18 50	4 46	17 13 17 12	5 55 5 55 5 55
W29 T 30	18 51 18 37	5 8 2 1 0s14 3	58 21 59 49 21 49	0 31 18 51 0 42 18 32	1 11 23 46 1 12 23 44 1 14 23 42	0 37 19 0 37 19 0 38 19	13 0 41	17 11 0 17 12 0	55 55	4 18 4 19	0 39 20 1 0 39 20 1 0 39 20 1	20 1 35 20 1 35	10 58 11 20 10 58 11 20 10 58 11 20	18 50 18 50	18 51 18 52	4 52 4 55	17 12 17 11 17 11	5 55 5 56
F 31	18n22	5 s 3 3 4 s	29 21n36	0n51 18n13	1n15 23n40	0n38 19	s15 0s41	17s14 0	s55	4 s20	0n39 20 s	20 In35	10n58 11 s20	18 s50	18 s53	4 s 5 8	17n10	5 s 5 6

Julian Day Number = 2502494.5, Delta T = 114.74 sec Ecliptic obliquity = 23°25'21, Nutation = $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}41'22$, Lahiri = $25^{\circ}48'22$

AUGUST 2139 00:00 UT

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S 1	20 37 2	8 N 30'09	15 ≏ 28	28957	13 Ω 50	1199 0	6°R34	14°R49	12 ≏ 32	9°R41	12 II 2	5°R42	5≈27	2 ჲ 38	9936	S 1
S 2	20 40 59	9°27'31	27°22	1 0 0	15° 4	11°40	6≈27	14≈45	12°34	9 ~ 41	12° 3	5 ≈ 42	5°23	2°45	9°41	S 2
M 3	20 44 56	10°24'54	9 M 24	3° 4	16°18	12°20	6°19	14°40	12°36	9°40	12° 4	5°D42	5°20	2°52	9°47	M 3
T 4	20 48 52	11°22'18	21°38	5° 9	17°32	13° 0	6°11	14°36	12°39	9°39	12° 5	5°42	5°17	2°58	9°52	T 4
W 5	20 52 49	12°19'42	4 ₹ 9	7°14	18°46	13°40	6° 3	14°32	12°41	9°39	12° 5	5°42	5°14	3° 5	9°57	W 5
T 6	20 56 45	13°17'07	16°59	9°20	20° 0	14°20	5°56	14°27	12°43	9°38	12° 6	5°43	5°11	3°12	10° 3	T 6
F 7	21 0 42	14°14'33	0 궁 13	11°25	21°14	14°59	5°48	14°23	12°46	9°38	12° 7	5°44	5° 8	3°19	10° 8	F 7
S 8	21 438	15°11'59	13°52	13°30	22°28	15°39	5°40	14°18	12°48	9°37	12° 8	5°44	5° 4	3°25	10°13	S 8
S 9	21 8 35	16° 9'26	27°54	15°35	23°42	16°18	5°33	14°14	12°50	9°37	12° 8	5°45	5° 1	3°32	10°18	S 9
M10	21 12 31	17° 6'54	12≈19	17°38	24°56	16°58	5°25	14° 9	12°53	9°37	12° 9	5°R45	4°58	3°39	10°23	M10
T 11	21 16 28	18° 4'23	26°59	19°41	26°10	17°37	5°18	14° 5	12°55	9°36	12°10	5°44	4°55	3°45	10°28	T 11
W12	21 20 25	19° 1'53	11 米 50	21°43	27°24	18°17	5°11	14° 0	12°58	9°36	12°10	5°43	4°52	3°52	10°33	W12
T 13	21 24 21	19°59'25	26°43	23°43	28°38	18°56	5° 3	13°56	13° 1	9°36	12°11	5°42	4°48	3°59	10°38	T 13
F 14	21 28 18	20°56'57	11 Y 30	25°42	29°52	19°36	4°56	13°52	13° 3	9°35	12°12	5°40	4°45	4° 5	10°43	F 14
S 15	21 32 14	21°54'31	26° 6	27°40	1 Mp 6	20°15	4°49	13°47	13° 6	9°35	12°12	5°38	4°42	4°12	10°48	S 15
S 16	21 36 11	22°52'06	10824	29°37	2°20	20°54	4°42	13°43	13° 9	9°35	12°13	5°37	4°39	4°19	10°53	S 16
M17	21 40 7	23°49'43	24°24	1 m 32	3°34	21°33	4°35	13°38	13°11	9°35	12°13	5°D37	4°36	4°26	10°58	M17
T 18	21 44 4	24°47'22	8 I I 3	3°26	4°48	22°12	4°28	13°34	13°14	9°35	12°14	5°37	4°33	4°32	11° 3	T 18
W19	21 48 0	25°45'02	21°23	5°18	6° 3	22°52	4°21	13°30	13°17	9°34	12°14	5°38	4°29	4°39	11° 7	W19
T 20	21 51 57	26°42'44	4925	7° 9	7°17	23°31	4°15	13°25	13°20	9°34	12°15	5°40	4°26	4°46	11°12	T 20
F 21	21 55 54	27°40'27	17°11	8°58	8°31	24°10	4° 8	13°21	13°23	9°34	12°15	5°41	4°23	4°52	11°17	F 21
S 22	21 59 50	28°38'11	29°44	10°46	9°45	24°49	4° 2	13°17	13°26	9°D34	12°16	5°R42	4°20	4°59	11°21	S 22
S 23	22 3 47	29°35'57	12 N 6	12°33	10°59	25°27	3°55	13°13	13°29	9°34	12°16	5°42	4°17	5° 6	11°26	S 23
M24	22 7 43	0 m 33'45	24°17	14°18	12°13	26° 6	3°49	13° 8	13°32	9°34	12°17	5°41	4°14	5°13	11°30	M24
T 25	22 11 40	1°31'33	6 m 21	16° 2	13°27	26°45	3°43	13° 4	13°35	9°35	12°17	5°38	4°10	5°19	11°35	T 25
W26	22 15 36	2°29'24	18°19	17°44	14°41	27°24	3°37	13° 0	13°38	9°35	12°17	5°35	4° 7	5°26	11°39	W26
T 27	22 19 33	3°27'15	0 ₽ 12	19°26	15°55	28° 3	3°31	12°56	13°41	9°35	12°18	5°30	4° 4	5°33	11°43	T 27
F 28	22 23 29	4°25'08	12° 3	21° 5	17°10	28°41	3°25	12°52	13°44	9°35	12°18	5°25	4° 1	5°39	11°48	F 28
S 29	22 27 26	5°23'02	23°53	22°44	18°24	29°20	3°20	12°48	13°47	9°35	12°18	5°20	3°58	5°46	11°52	S 29
S 30	22 31 23	6°20'58	5 M .47	24°21	19°38	29°58	3°15	12°44	13°50	9°35	12°19	5°16	3°54	5°53	11°56	S 30
M31	22 35 19	7 m) 18'55	17 M .48	25 m 56	20 m 52	0 Ω 37	3≈ 9	12≈40	13 ≏ 53	9 ₹ 36	12 II 19	5≈13	3≈51	5 Ω 59	1299 0	M31

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S 1	18n 7	10s39 4	s58 211	n20	1n 0	17n53	1n16	23n37	0n39	19s17	0 s41	17s15	0s55	4 s21	0n39	20 s20	1n35	10n58	11 s21	18 s50	18 s54	5s 1	17n 9	5 s56
S 2	17 52	15 24 5	14 21	2	1 8	17 32	1 17	23 34	0 40	19 19	0 41	17 16	0 55	4 22	0 39	20 19	1 35	10 58	11 21	18 50	18 55	5 4	17 9	5 56
M 3	17 37		16 20	41		17 11		23 31		19 21	0 41		0 55	4 23	0 39	20 19		10 58					17 8	5 57
T 4	-	23 4 5		18		16 49			0 41	19 23	0 41		0 55	4 24		20 19	1 35					5 11		5 57
W 5	17 5			52	-	16 27		23 25	0 42		0 42		0 55	4 25		20 19	1 35					5 14		5 57
T 6			58 19			16 5		-	0 42		0 42		0 55	4 25		20 19	1 35					5 17		5 58
F 7 S 8		26 30 3 24 40 1	4 18 58 18	54		15 42 15 19		23 17 23 13		19 29 19 31		17 23 17 25	0 55 0 56	4 26 4 27		20 19 20 19		10 58 10 58				5 20 5 23		5 58 5 58
						13 19							0 30	4 21										
S 9			43 17		_	14 55	1 23				0 42		0 56	4 28		20 19						5 26		5 59
M10	15 42			12		14 31		-	0 45	19 35	0 42		0 56	4 29		20 19	1 34				-	5 29		5 59
T 11	-	-		34	-	14 7		-	0 45		0 42		0 56	4 30		20 19	1 34				-	5 32		5 59
W12 T 13	15 6	4 15 3				13 42		22 56		19 39		17 30	0 56	4 31		20 19	1 34	10 57 10 57				5 35		6 0
F 14	14 48 14 30	-	6 15	16	-	13 16 12 51		22 51 22 46	0 46 0 47	19 40 19 42		17 32 17 33	0 56 0 56	4 32 4 34		20 19 20 19		10 57				5 38 5 41		$\begin{array}{ccc} 6 & 0 \\ 6 & 0 \end{array}$
S 15			11 13			12 25		22 40		19 44		17 34	0 56	4 35		20 19		10 57					16 59	6 1
			15 13	- 1		11 59		22 36		19 46		17 36	0 56	4 36		20 19		10 57					16 59	6 1
M17 T 18	13 34 13 15	_		27		11 32 11 5		22 30 22 24		19 48 19 49		17 37 17 38	0 56 0 56	4 37 4 38		20 19 20 19		10 57 10 56					16 58 16 57	6 2
W19		-		43 58		11 5 10 38				19 49		17 40	0 56	4 38		20 19		10 56					16 56	6 2
T 20	12 36			13	1 27	10 10		22 12	0 50	19 53		17 41	0 56	4 40		20 20		10 56					16 56	6 3
F 21				28	1 22	9 42	1 26		0 51	19 54	0 43		0 56	4 41		20 20		10 56					16 55	6 3
S 22				43	1 17	9 14	1 26			19 56		17 43	0 56	4 42		20 20		10 56					16 54	6 4
S 23	11 26	16 36 0	.25 7	57	1 12	8 46	1 26	21 53	0.52	19 57	0.42	17 45	0 57	4 44	0.20	20 20	1 24	10 56	11 25	10 50	10 11	6 0	16 53	6 4
M24	11 16			12	1 12	8 18		21 33		19 57			0 57	4 44		20 20		10 56					16 52	6 4
T 25	10 55			26	1 0	7 49		21 40	0 53		0 43		0 57	4 46		20 20	1 33						16 52	6 5
W26	10 35			40	0 54	7 20		21 33	0 54		0 43		0 57	4 47		20 20	1 33						16 51	6 5
T 27	10 14			55	0 47	6 51		21 26	0 55		0 43		0 57	4 48		20 20	1 33						16 50	6 6
F 28	9 53	9 9 4	47 4	9	0 41	6 21	1 24	21 19	0 55		0 43	17 51	0 57	4 50	0 38	20 20	1 33	10 55	11 26	18 54	19 14	6 24	16 49	6 6
S 29	9 32	14 0 5	6 3	24	0 34	5 52	1 23	21 11	0 56	20 6	0 43	17 52	0 57	4 51	0 38	20 20	1 33	10 55	11 26	18 55	19 15	6 27	16 48	6 7
S 30	9 11	18 21 5	12 2	39	0 26	5 22	1 23	21 4	0 56	20 7	0 43	17 53	0 57	4 52	0 38	20 20	1 33	10 55	11 26	18 56	19 16	6 30	16 48	6 7
M31	-			n54	0n19	4n52		20n56		20s 9		17s54	0s57			20 s20					19s17		16n47	6s 8

Julian Day Number = 2502525.5, Delta T = 114.79 sec Ecliptic obliquity = 23°25'21, Nutation = $0^{\circ}00'15$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}41'26$, Lahiri = $25^{\circ}48'27$

SEPTEMBER 2139 00:00 UT

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T 1	22 39 16	8 mg 16'53	29 TL 59	27 m 31	22 Mp 6	1 Q 15	3°R 4	12°R37	13 ≏ 57	9 ∡ ³36	12 I I19	5°R11	3≈48	6₽ 6	1295 4	T 1
W 2	22 43 12	9°14'53	12 × 26	29° 4	23°20	1°54	2≈59	12≈33	14° 0	9°36	12°19	5°D11	3°45	6°13	12° 8	W 2
T 3	22 47 9	10°12'54	25°12	0 ჲ 36	24°34	2°32	2°55	12°29	14° 3	9°37	12°20	5≈12	3°42	6°20	12°12	T 3
F 4	22 51 5	11°10'56	8 云 21	2° 6	25°48	3°10	2°50	12°26	14° 6	9°37	12°20	5°13	3°39	6°26	12°16	F 4
S 5	22 55 2	12° 8'59	21°56	3°35	27° 2	3°48	2°45	12°22	14°10	9°38	12°20	5°14	3°35	6°33	12°20	S 5
S 6	22 58 58	13° 7'05	5≈59	5° 3	28°17	4°26	2°41	12°18	14°13	9°38	12°20	5°R15	3°32	6°40	12°24	S 6
M 7	23 2 55	14° 5'11	20°29	6°30	29°31	5° 5	2°37	12°15	14°17	9°39	12°20	5°14	3°29	6°46	12°27	M 7
T 8	23 6 52	15° 3'19	5 ∺ 21	7°55	0 ჲ 45	5°43	2°33	12°12	14°20	9°39	12°20	5°11	3°26	6°53	12°31	T 8
W 9	23 10 48	16° 1'29	20°29	9°18	1°59	6°21	2°29	12° 8	14°23	9°40	12°20	5° 7	3°23	7° 0	12°35	W 9
T 10	23 14 45	16°59'40	5 ℃ 43	10°41	3°13	6°59	2°26	12° 5	14°27	9°40	12°20	5° 1	3°19	7° 7	12°38	T 10
F 11	23 18 41	17°57'53	20°51	12° 2	4°27	7°37	2°22	12° 2	14°30	9°41	12°20	4°55	3°16	7°13	12°42	F 11
S 12	23 22 38	18°56'08	5 8 46	13°21	5°41	8°14	2°19	11°59	14°34	9°42	12°R20	4°49	3°13	7°20	12°45	S 12
S 13	23 26 34	19°54'25	20°19	14°39	6°55	8°52	2°16	11°56	14°37	9°42	12°20	4°44	3°10	7°27	12°48	S 13
M14	23 30 31	20°52'45	4 Ⅱ 26	15°56	8° 9	9°30	2°13	11°53	14°41	9°43	12°20	4°41	3° 7	7°33	12°52	M14
T 15	23 34 27	21°51'06	18° 7	17°10	9°23	10° 8	2°11	11°50	14°44	9°44	12°20	4°D40	3° 4	7°40	12°55	T 15
W16	23 38 24	22°49'30	19523	18°24	10°38	10°45	2° 8	11°47	14°48	9°45	12°20	4°40	3° 0	7°47	12°58	W16
T 17	23 42 21	23°47'56	14°16	19°35	11°52	11°23	2° 6	11°44	14°52	9°45	12°20	4°41	2°57	7°54	13° 1	T 17
F 18	23 46 17	24°46'24	26°50	20°44	13° 6	12° 0	2° 4	11°42	14°55	9°46	12°20	4°42	2°54	8° 0	13° 4	F 18
S 19	23 50 14	25°44'54	9 Ω 10	21°52	14°20	12°38	2° 2	11°39	14°59	9°47	12°20	4°R42	2°51	8° 7	13° 7	S 19
S 20	23 54 10	26°43'26	21°18	22°57	15°34	13°15	2° 0	11°37	15° 2	9°48	12°20	4°41	2°48	8°14	13°10	S 20
M21	23 58 7	27°42'00	3 m 19	24° 0	16°48	13°53	1°58	11°34	15° 6	9°49	12°20	4°37	2°45	8°20	13°13	M21
T 22	0 2 3	28°40'36	15°15	25° 1	18° 2	14°30	1°57	11°32	15°10	9°50	12°19	4°31	2°41	8°27	13°15	T 22
W23	0 6 0	29°39'13	27° 7	26° 0	19°16	15° 7	1°56	11°30	15°13	9°51	12°19	4°22	2°38	8°34	13°18	W23
T 24	0 9 56	0 ჲ 37'53	8 ॒ 59	26°55	20°30	15°45	1°55	11°27	15°17	9°52	12°19	4°12	2°35	8°40	13°20	T 24
F 25	0 13 53	1°36'35	20°50	27°48	21°44	16°22	1°54	11°25	15°21	9°53	12°19	4° 0	2°32	8°47	13°23	F 25
S 26	0 17 49	2°35'19	2 M 43	28°37	22°58	16°59	1°54	11°23	15°24	9°54	12°18	3°49	2°29	8°54	13°25	S 26
S 27	0 21 46	3°34'04	14°40	29°24	24°12	17°36	1°53	11°21	15°28	9°55	12°18	3°39	2°25	9° 1	13°28	S 27
M28	0 25 43	4°32'52	26°43	OM 6	25°26	18°13	1°D53	11°20	15°32	9°57	12°18	3°31	2°22	9° 7	13°30	M28
T 29	0 29 39	5°31'41	8 ₹ 754	0°44	26°41	18°50	1°53	11°18	15°36	9°58	12°17	3°25	2°19	9°14	13°32	T 29
W30	0 33 36	6 ₽ 30'32	21 × 19	1 M .19	27 ≏ 55	$19\Omega^{27}$	1≈53	11≈16	15 ≏ 39	9 .7 59	12 I I7	3≈22	2≈16	9 ₽ 21	13934	W30

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T 1	8n28		4 s43	1n10	0n11	4n22		20n48		20s10			0s57	4 s 5 5		20 s20		10n54					16n46	6 s 8
W 2	8 6		4 9	0 26	0 4	3 52		20 40		20 11	0 44		0 57	4 56		20 21		10 54					16 45	6 9
T 3		-	3 21	0s18	0s 4	3 22	1 19			20 12	0 44		0 57	4 57		20 21	1 33						16 44	6 9
F 4	7 22		2 21	1 1	0 12	2 52	1 18	-		20 13	0 44	-, -	0 57	4 59		20 21	1 33						16 43	6 10
S 5	7 0	22 49	1 12	1 44	0 20	2 21	1 17	20 15	1 0	20 14	0 44	18 0	0 57	5 0	0 38	20 21	1 33	10 54	11 27	18 57	19 20	6 49	16 43	6 10
S 6	6 38	18 42	0n 4	2 26	0 28	1 51	1 16	20 7	1 1	20 15	0 44	18 1	0 57	5 1	0 38	20 21	1 33	10 53	11 28	18 57	19 21	6 52	16 42	6 11
M 7	6 15	13 21	1 22	3 8	0 37	1 20	1 15	19 58	1 1	20 16	0 44	18 2	0 57	5 3	0 38	20 21	1 33	10 53	11 28	18 57	19 22	6 55	16 41	6 11
T 8	5 53	7 7	2 36	3 50	0 45	0 50	1 14	19 50	1 2	,	0 44	18 3	0 57	5 4	0 38	20 21	1 33					6 58	16 40	6 12
W 9	5 31		3 40	4 30	0 53	0 19	1 12			20 18	0 44		0 57	5 5		20 21	1 33				19 23	7 1	16 39	6 12
T 10	5 8		4 30		1 2	0s12	1 11		_	20 19	0 44		0 57	5 7		20 22	1 33		-		19 24		16 38	6 13
F 11	4 45	-	5 0		1 10	0 42	1 9			20 20	0 44		0 57	5 8		20 22		10 52			19 25		16 38	6 13
S 12	4 23	18 17	5 9	6 28	1 19	1 13	1 8	19 13	1 4	20 20	0 44	18 6	0 57	5 9	0 38	20 22	1 32	10 52	11 29	19 3	19 25	7 10	16 37	6 14
S 13	4 0	22 35	4 57	7 6	1 27	1 44	1 6	19 4	1 5	20 21	0 44	18 7	0 57	5 11	0 38	20 22	1 32	10 52	11 29	19 4	19 26	7 13	16 36	6 14
M14	3 37	25 25	4 28	7 44	1 35	2 15	1 5	18 55	1 5	20 22	0 44	18 8	0 57	5 12	0 38	20 22	1 32	10 52	11 29	19 5	19 27	7 16	16 35	6 15
T 15	3 14	26 37	3 45	8 20	1 44	2 45	1 3	18 45	1 6	20 22	0 44	18 9	0 57	5 13	0 38	20 22	1 32	10 52	11 29	19 5	19 28	7 19	16 34	6 15
W16	2 51	26 15	2 50	8 56	1 52	3 16	1 1	18 35	1 6	20 23	0 44	18 10	0 57	5 15	0 38	20 23	1 32	10 51	11 30	19 5	19 28	7 22	16 33	6 16
T 17	2 28	24 27	1 48	9 30	2 0	3 46	1 0		1 7	20 23	0 44	18 10	0 57	5 16	0 38	20 23	1 32	10 51	11 30			7 25	16 33	6 16
F 18		-		10 4	2 8	4 17	0 58	18 16		20 24	0 44	-	0 57	5 18		20 23		10 51			19 30		16 32	6 17
S 19	1 41	17 34	0s24	10 37	2 16	4 47	0 56	18 6	1 8	20 24	0 44	18 12	0 57	5 19	0 38	20 23	1 32	10 51	11 30	19 4	19 31	7 31	16 31	6 17
S 20	1 18	13 0	1 28	11 9	2 24	5 18	0 54	17 55	1 9	20 25	0 44	18 13	0 57	5 20	0 38	20 23	1 32	10 50	11 30	19 5	19 31	7 34	16 30	6 18
M21	0 55	7 59	2 27	11 39	2 32	5 48	0 52	17 45	1 9	20 25	0 44	18 13	0 57	5 22	0 38	20 23	1 32	10 50	11 31	19 6	19 32	7 37	16 29	6 19
T 22	0 32		3 20	12 9	2 39	6 18	0 50	17 35	1 10	20 25	0 44	18 14	0 57	5 23	0 38	20 24	1 32		11 31	19 7	19 33	7 40	16 28	6 19
W23	0 8			12 37	2 46	6 48	0 48		-	20 25	0 44	-	0 57	5 25		20 24	1 32		-				16 28	6 20
T 24	0s15			13 3	2 53	7 18	0 46			20 26	0 44		0 57	5 26		20 24	1 32		-				16 27	6 20
F 25	0 38			13 29	3 0	7 48	0 43			20 26	0 44		0 57	5 28		20 24	1 32						16 26	6 21
S 26	1 2	17 9	5 4	13 52	3 6	8 17	0 41	16 53	1 12	20 26	0 44	18 16	0 57	5 29	0 38	20 25	1 32	10 49	11 32	19 17	19 36	7 52	16 25	6 22
S 27	1 25	20 58	4 58	14 14	3 12	8 47	0 39	16 42	1 13	20 26	0 44	18 17	0 57	5 30	0 38	20 25	1 32	10 49	11 32	19 19	19 36	7 55	16 24	6 22
M28	1 48	23 56	4 40	14 35	3 17	9 16	0 37	16 31	1 13	20 26	0 44	18 17	0 57	5 32	0 38	20 25	1 32	10 49	11 32	19 21	19 37	7 58	16 23	6 23
T 29			4 8	14 53	3 22	9 45		16 20		20 26	0 44	18 18	0 57	5 33	0 38	20 25		10 48	-			8 1	16 23	6 23
W30	2 s35	26 s32	3 s24	15s 9	3 s27	10s14	0n32	16n 9	1n14	20 s26	0 s44	18s18	0s57	5 s35	0n38	20 s25	1n31	10n48	11s32	19 s23	19 s38	8s 3	16n22	6 s24

 $\label{eq:Julian Day Number = 2502556.5, Delta T = 114.85 sec} \\ Ecliptic obliquity = 23°25'21, Nutation = 0°00'15, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°41'31, Lahiri = 25°48'31 \\$

OCTOBER 2139 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(并	Р	រា	ນ	Ç	Ŗ	Day
T 1	0 37 32	7 ≏ 29'25	4る 0	1 M .48	29 <u>₽</u> 9	20 N 3	1≈54	11°R15	15 ≏ 43	10 × 0	12°R17	3°D21	2≈13	9 ≙ 27	13936	T 1
F 2	0 41 29	8°28'19	17° 2	2°12	0ML23	20°40	1°54	11≈13	15°47	10° 2	12 II 16	3≈21	2°10	9°34	13°38	F 2
S 3	0 45 25	9°27'15	0≈29	2°31	1°37	21°17	1°55	11°12	15°51	10° 3	12°16	3°R21	2° 6	9°41	13°40	S 3
S 4	0 49 22	10°26'13	14°23	2°44	2°51	21°53	1°56	11°11	15°54	10° 4	12°15	3°21	2° 3	9°48	13°42	S 4
M 5	0 53 18	11°25'13	28°45	2°R51	4° 5	22°30	1°57	11°10	15°58	10° 5	12°15	3°18	2° 0	9°54	13°43	M 5
T 6	0 57 15	12°24'14	13 米 33	2°51	5°19	23° 6	1°59	11° 9	16° 2	10° 7	12°14	3°14	1°57	10° 1	13°45	T 6
W 7	1 1 12	13°23'17	28°41	2°43	6°33	23°43	2° 0	11°8	16° 6	10° 8	12°14	3° 6	1°54	10° 8	13°46	W 7
T 8	1 5 8	14°22'22	14 Y 1	2°28	7°47	24°19	2° 2	11° 7	16°10	10°10	12°13	2°57	1°51	10°14	13°48	T 8
F 9	1 9 5	15°21'29	29°20	2° 6	9° 1	24°55	2° 4	11° 6	16°13	10°11	12°13	2°46	1°47	10°21	13°49	F 9
S 10	1 13 1	16°20'39	14828	1°35	10°15	25°32	2° 6	11° 6	16°17	10°13	12°12	2°36	1°44	10°28	13°50	S 10
S 11	1 16 58	17°19'50	29°14	0°56	11°28	26° 8	2° 9	11° 5	16°21	10°14	12°12	2°27	1°41	10°35	13°52	S 11
M12	1 20 54	18°19'04	13 Ⅱ 33	0°10	12°42	26°44	2°11	11° 5	16°25	10°16	12°11	2°21	1°38	10°41	13°53	M12
T 13	1 24 51	19°18'20	27°22	29 ≏ 16	13°56	27°20	2°14	11° 4	16°29	10°17	12°10	2°17	1°35	10°48	13°54	T 13
W14	1 28 47	20°17'39	109542	28°16	15°10	27°56	2°17	11° 4	16°32	10°19	12°10	2°15	1°31	10°55	13°55	W14
T 15	1 32 44	21°17'00	23°35	27°10	16°24	28°32	2°20	11° 4	16°36	10°20	12° 9	2°D15	1°28	11° 1	13°56	T 15
F 16	1 36 41	22°16'23	6 N 6	26° 0	17°38	29° 8	2°23	11°D 4	16°40	10°22	12° 9	2°R15	1°25	11°8	13°56	F 16
S 17	1 40 37	23°15'48	18°21	24°48	18°52	29°44	2°27	11° 4	16°44	10°24	12° 8	2°14	1°22	11°15	13°57	S 17
S 18	1 44 34	24°15'16	0 m 23	23°35	20° 6	0 m 19	2°31	11° 4	16°47	10°25	12° 7	2°11	1°19	11°22	13°58	S 18
M19	1 48 30	25°14'45	12°18	22°24	21°20	0°55	2°34	11° 4	16°51	10°27	12° 6	2° 6	1°16	11°28	13°58	M19
T 20	1 52 27	26°14'17	24°10	21°17	22°34	1°31	2°39	11° 5	16°55	10°29	12° 6	1°57	1°12	11°35	13°58	T 20
W21	1 56 23	27°13'51	6 亞 0	20°15	23°48	2° 6	2°43	11° 5	16°59	10°31	12° 5	1°46	1° 9	11°42	13°59	W21
T 22	2 0 20	28°13'28	17°52	19°21	25° 1	2°42	2°47	11° 6	17° 2	10°32	12° 4	1°33	1° 6	11°48	13°59	T 22
F 23	2 4 16	29°13'06	29°46	18°35	26°15	3°17	2°52	11° 6	17° 6	10°34	12° 3	1°18	1° 3	11°55	13°59	F 23
S 24	2 8 13	0ML12'46	11 M .45	18° 0	27°29	3°52	2°57	11° 7	17°10	10°36	12° 3	1° 3	1° 0	12° 2	13°R59	S 24
S 25	2 12 10	1°12'29	23°49	17°36	28°43	4°28	3° 1	11°8	17°14	10°38	12° 2	0°50	0°56	12° 9	13°59	S 25
M26	2 16 6	2°12'13	6 ₹ 0	17°23	29°57	5° 3	3° 7	11° 9	17°17	10°40	12° 1	0°39	0°53	12°15	13°59	M26
T 27	2 20 3	3°11'59	18°20	17°D22	1 7 11	5°38	3°12	11°10	17°21	10°42	12° 0	0°30	0°50	12°22	13°59	T 27
W28	2 23 59	4°11'47	0 궁 49	17°31	2°25	6°13	3°17	11°11	17°25	10°43	11°59	0°25	0°47	12°29	13°59	W28
T 29	2 27 56	5°11'37	13°33	17°51	3°38	6°48	3°23	11°12	17°28	10°45	11°58	0°22	0°44	12°35	13°58	T 29
F 30	2 31 52	6°11'28	26°33	18°21	4°52	7°23	3°29	11°14	17°32	10°47	11°57	0°22	0°41	12°42	13°58	F 30
S 31	2 35 49	7 M 11'21	9≈53	19 ♀ 0	6 ₹ 6	7 m 57	3≈35	11≈15	17 ≏ 36	10 ∡ 149	11 II 57	0≈22	0≈37	12 ≏ 49	13957	S 31

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	decl	decl la	nt	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl la	at	decl	decl	decl	decl	lat
T 1	2 s58			15 s23				15n58		20 s26	0 s43		0s57	5 s36		20 s26	1n31						16n21	6 s25
F 2 S 3	3 21		-	15 34 15 43		11 10 11 38		15 47 15 36		20 26 20 25	0 43	18 19 18 19	0 57 0 57	5 38 5 39		20 26 20 26		10 48 1 10 48 1					16 20 16 19	6 25
S 4																								
M 5	4 8 4 31			15 49 15 52		12 6 12 34		15 25 15 13		20 25 20 25		18 20 18 20	0 57 0 57	5 41 5 42		20 26 20 27		10 47 1 10 47 1					16 19 16 18	6 26 6 27
T 6	4 54			15 51	3 37	-	0 17	-		20 25		18 20	0 57	5 44		20 27							16 17	6 28
W 7	5 17			15 46		13 28		14 50		20 24		18 20	0 57	5 45		20 27							16 16	6 28
T 8 F 9	5 40 6 3		-	15 38 15 26		13 54 14 21		14 39 14 27		20 24 20 23		18 21 18 21	0 57 0 57	5 46 5 48		20 27 20 28	-	10 46 1 10 46 1	-			-	16 16 16 15	6 29
S 10			4 55		3 21			14 27		20 23		18 21	0 57	5 49		20 28		10 46 1					16 14	6 30
S 11	6 48	24 21	4 30	14 48	3 12	15 12	0 4	14 4	1 21	20 22	0 43	18 21	0 57	5 51	0.38	20 28	1 31	10 46 1	1 34	19 36	19 46		16 13	6 31
M12	-			14 22		-		13 52	1 21	20 22	0 43	-	0 57	5 52		20 28	-	10 45 1	-				16 13	6 31
T 13	7 33			13 52	2 51	-		13 40		20 21	0 43	-	0 57	5 54		20 29	-					-	16 12	6 32
W14				13 18	2 37			13 28		20 20	0 43		0 57	5 55		20 29							16 11	6 33
T 15 F 16	8 18 8 40			12 39 11 58	2 22 2 4			13 16 13 4		20 19 20 19	0 43 0 43	-	0 57 0 57	5 57 5 58		20 29 20 29	1 31	10 45 1 10 44 1					16 10 16 10	6 33
S 17	9 2			11 14		17 38		12 52		20 18		18 21	0 57	6 0		20 30		10 44 1				8 54		6 35
S 18	9 24	9 6	2 23	10 29	1 26	18 0	0 16	12 40	1 25	20 17	0 43	18 21	0 57	6 1	0 37	20 30	1 31	10 44 1	1 35	19 39	19 51	8 56	16 8	6 35
M19	9 46	3 56	3 15	9 44	1 6		0 18	12 28		20 16	0 43	-	0 57	6 2	0 37	20 30	1 31	10 44 1	1 36	19 41	19 52	8 59	16 8	6 36
T 20	10 7		3 58	9 0	0 45	-		12 16		20 15		18 21	0 57	6 4		20 31	-	10 43 1				9 2	16 7	6 36
W21 T 22	10 29 10 50		4 30 4 51	8 17 7 38	0 25			12 4 11 52		20 14 20 13		18 21 18 21	0 57 0 57	6 5		20 31 20 31		10 43 1 10 43 1				9 5 9 8	16 6 16 6	6 37 6 38
F 23	11 11		4 59	7 3	0n15			11 39		20 12	0 43		0 57	6 8		20 31						9 11		6 38
S 24	11 32	20 0	4 54	6 33	0 33	20 7	0 32	11 27	1 28	20 11	0 43	18 20	0 57	6 10	0 37	20 32	1 30	10 43 1	1 36	19 55	19 55	9 14	16 4	6 39
S 25	11 53	23 10	4 36	6 8	0 50	20 26	0 35	11 15	1 29	20 10	0 43	18 20	0 57	6 11	0 37	20 32	1 30	10 42 1	1 36	19 58	19 56	9 17	16 4	6 40
M26	12 14		4 5	5 49	1 5		0 38	-	1 30			18 20	0 57	6 12		20 32		10 42 1			19 57	9 20		6 40
T 27 W28	12 34 12 55		3 22 2 29	5 36 5 29	1 19 1 31	_		10 50 10 38	1 30		0 43 0 43		0 57 0 57	6 14 6 15		20 33 20 33	1 30				19 57 19 58	9 23 9 25		6 41 6 42
T 29			1 28	5 27	1 41			10 36	1 31			18 19	0 57	6 17		20 33	1 30				19 59	9 28		6 42
F 30	13 35	21 10	0 20	5 30	1 49	21 54		10 13	1 32			18 18	0 57	6 18		20 34	1 30				19 59	9 31		6 43
S 31	13 s54	16 s57	0n50	5 s38	1n56	22 s 9	0 s 5 2	10n 1	1n32	20 s 2	0 s43	18s18	0s57	6 s 1 9	0n38	20 s34	1n30	10n41 1	1 s37	20 s 4	20 s 0	9s34	16n 0	6 s43

Julian Day Number = 2502586.5, Delta T = 114.90 sec Ecliptic obliquity = 23°25'21, Nutation = 0°00'14, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°41'35, Lahiri = 25°48'35

NOVEMBER 2139 00:00 UT

Day	Sid.t	0	D	ğ	Q	ď	4	ħ)∤(¥	Р	ß	Ω	Ç	ę,	Day
S 1	2 39 45	8 M L11'15	23≈36	19 ≙ 47	7 ₹ 20	8 m /32	3≈41	11≈17	17 Ω 39	10 × 751	11°R56	0°R21	0≈34	12 Ω 56	13°R57	S 1
M 2	2 43 42	9°11'11	7) (44	20°42	8°33	9° 7	3°47	11°18	17°43	10°53	11 II 55	0≈19	0°31	13° 2	139556	M 2
T 3	2 47 39	10°11'09	22°17	21°44	9°47	9°41	3°54	11°20	17°46	10°55	11°54	0°14	0°28	13° 9	13°55	T 3
W 4	2 51 35	11°11'08	7 Υ 10	22°51	11° 1	10°16	4° 0	11°22	17°50	10°57	11°53	0° 6	0°25	13°16	13°54	W 4
T 5	2 55 32	12°11'09	22°17	24° 3	12°15	10°50	4° 7	11°24	17°54	10°59	11°52	29 궁 56	0°22	13°22	13°53	T 5
F 6	2 59 28	13°11'12	7 8 29	25°19	13°28	11°24	4°14	11°26	17°57	11° 1	11°51	29°45	0°18	13°29	13°52	F 6
S 7	3 3 25	14°11'17	22°34	26°39	14°42	11°58	4°21	11°28	18° 1	11° 3	11°50	29°34	0°15	13°36	13°51	S 7
S 8	3 7 21	15°11'23	7Ⅲ23	28° 2	15°56	12°32	4°28	11°31	18° 4	11° 5	11°49	29°24	0°12	13°43	13°50	S 8
M 9	3 11 18	16°11'32	21°47	29°28	17° 9	13° 6	4°36	11°33	18° 8	11° 7	11°48	29°17	0° 9	13°49	13°48	M 9
T 10	3 15 14	17°11'43	5 95 43	0 M 56	18°23	13°40	4°43	11°35	18°11	11°10	11°47	29°13	0° 6	13°56	13°47	T 10
W11	3 19 11	18°11'55	19° 9	2°25	19°36	14°14	4°51	11°38	18°14	11°12	11°46	29°10	0° 2	14° 3	13°46	W11
T 12	3 23 8	19°12'10	2 N 8	3°56	20°50	14°48	4°59	11°41	18°18	11°14	11°45	29°D10	29 궁 59	14° 9	13°44	T 12
F 13	3 27 4	20°12'26	14°43	5°29	22° 3	15°22	5° 7	11°43	18°21	11°16	11°44	29°R10	29°56	14°16	13°42	F 13
S 14	3 31 1	21°12'45	27° 0	7° 2	23°17	15°55	5°15	11°46	18°25	11°18	11°43	29°10	29°53	14°23	13°41	S 14
S 15	3 34 57	22°13'05	9Mm 2	8°36	24°31	16°29	5°23	11°49	18°28	11°20	11°42	29° 9	29°50	14°30	13°39	S 15
M16	3 38 54	23°13'27	20°57	10°10	25°44	17° 2	5°32	11°52	18°31	11°22	11°41	29° 5	29°47	14°36	13°37	M16
T 17	3 42 50	24°13'51	2 ≏ 47	11°45	26°58	17°35	5°40	11°55	18°34	11°24	11°40	28°59	29°43	14°43	13°35	T 17
W18	3 46 47	25°14'17	14°38	13°20	28°11	18° 8	5°49	11°58	18°38	11°27	11°38	28°50	29°40	14°50	13°33	W18
T 19	3 50 43	26°14'45	26°32	14°56	29°25	18°41	5°58	12° 2	18°41	11°29	11°37	28°39	29°37	14°57	13°31	T 19
F 20	3 54 40	27°15'15	8 M .31	16°31	0 궁 38	19°14	6° 7	12° 5	18°44	11°31	11°36	28°27	29°34	15° 3	13°29	F 20
S 21	3 58 37	28°15'46	20°39	18° 7	1°51	19°47	6°16	12° 8	18°47	11°33	11°35	28°14	29°31	15°10	13°26	S 21
S 22	4 2 33	29°16'19	2 ₹ 54	19°43	3° 5	20°20	6°25	12°12	18°50	11°35	11°34	28° 3	29°28	15°17	13°24	S 22
M23	4 6 30	0 ₮ 16'54	15°19	21°18	4°18	20°52	6°34	12°16	18°53	11°38	11°33	27°54	29°24	15°23	13°22	M23
T 24	4 10 26	1°17'30	27°53	22°54	5°32	21°25	6°44	12°19	18°56	11°40	11°32	27°47	29°21	15°30	13°19	T 24
W25	4 14 23	2°18'07	10 る 38	24°29	6°45	21°57	6°54	12°23	19° 0	11°42	11°31	27°43	29°18	15°37	13°17	W25
T 26	4 18 19	3°18'45	23°34	26° 5	7°58	22°29	7° 3	12°27	19° 3	11°44	11°30	27°D42	29°15	15°44	13°14	T 26
F 27	4 22 16	4°19'25	6≈43	27°40	9°11	23° 2	7°13	12°31	19° 5	11°47	11°28	27°42	29°12	15°50	13°11	F 27
S 28	4 26 12	5°20'06	20° 7	29°15	10°25	23°34	7°23	12°35	19° 8	11°49	11°27	27°43	29° 8	15°57	13° 9	S 28
S 29	4 30 9	6°20'48	3) €48	0 才 50	11°38	24° 5	7°33	12°39	19°11	11°51	11°26	27°R44	29° 5	16° 4	13° 6	S 29
M30	4 34 6	7 ₹ 121'31	17) (46	2 ₹ 25	12 る 51	24 m 37	7≈43	12≈43	19 ₽ 14	11 × 753	11 Ⅱ 25	27 云 43	29る 2	16 ₽ 10	1395 3	M30

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M 2	14 33	5 49 3		8 2	6 22 39	0 57	9 36	1 34		0 42		0 57	6 22		20 34		10 41			20 2		15 59	6 45
T 3	14 52	0n35 3	58 6 2	8 2	9 22 53	1 0	9 23	1 34	19 57	0 42	18 16	0 57	6 23	0 38	20 35	1 30	-			20 2	9 43	15 59	6 45
W 4	15 10		37 6 5		10 23 6	1 2	9 11	1 35		0 42		0 57	6 25		20 35	1 30				20 3	9 46		6 46
T 5	15 29	-	58 7	-	-	1 5	8 58	1 35		0 42		0 57	6 26		20 35	1 30				20 4	9 48		6 46
F 6	-		58 7 4			1 7	8 46	1 36		0 42		0 57	6 27		20 36		10 40					15 57	6 47
S 7	16 5	22 52 4	37 8 1	6 2	9 23 42	1 10	8 33	1 37	19 51	0 42	18 14	0 57	6 29	0 38	20 36	1 30	10 40	11 38	20 14	20 5	9 54	15 57	6 48
S 8	16 23	25 26 3	58 8 4	8 2	7 23 53	1 12	8 21	1 37	19 49	0 42	18 14	0 57	6 30	0 38	20 36	1 30	10 39	11 38	20 16	20 6	9 57	15 56	6 48
M 9	16 40	26 14 3	4 9 2	0 2	4 24 3	1 15	8 8	1 38	19 47	0 42	18 13	0 57	6 31	0 38	20 37	1 30	10 39	11 38	20 17	20 6	10 0	15 56	6 49
T 10	16 57	25 19 2	1 9 5	4 2	1 24 12	1 17	7 56	1 38	19 45	0 42	18 12	0 57	6 33	0 38	20 37	1 30	10 39	11 38	20 18	20 7	10 3	15 55	6 49
W11	17 14	22 56 0	53 10 2	9 1	57 24 20	1 20	7 43	1 39	19 43	0 42	18 11	0 57	6 34	0 38	20 37	1 30	10 39	11 38	20 19	20 8	10 6	15 55	6 50
T 12			-	4 1		1 22	7 31	1 40	19 41	0 42		0 57	6 35	0 38	20 38							15 54	6 51
F 13	17 47	-	22 11 3	-	47 24 35	1 24	7 18	1 40	19 39	0 42		0 57	6 37	0 38	20 38		10 38						6 51
S 14	18 3	10 17 2	22 12	5 1	42 24 42	1 27	7 6	1 41	19 37	0 42	18 9	0 57	6 38	0 38	20 38	1 30	10 38	11 38	20 19	20 10	10 14	15 54	6 52
S 15	18 19	5 9 3	15 12 5	0 1	36 24 47	1 29	6 54		19 35	0 42		0 57	6 39	0 38	20 38	1 30	10 38						6 52
M16	18 34		59 13 2	-	30 24 52	1 31	6 41	1 42		0 42		0 57	6 40		20 39	1 30				20 11			6 53
T 17	18 49	-	32 14		24 24 56	1 33	6 29	1 43		0 42		0 56	6 42		20 39	1 30							6 53
W18	19 4		54 14 3		18 25 0	1 35	6 16			0 42		0 56	6 43		20 39		10 37						6 54
T 19	19 18				12 25 3	1 37	6 4			0 42		0 56	6 44		20 40		10 37						6 55
F 20	19 32		58 15 4		5 25 5	1 39	5 52		19 25	0 42		0 56	6 45		20 40		10 37						6 55
S 21	19 46	22 24 4	40 16	7 0	58 25 6	1 41	5 39	1 45	19 22	0 42	18 3	0 56	6 46	0 38	20 40	1 30	10 37	11 39	20 30	20 14	10 34	15 51	6 56
S 22	19 59	24 48 4	9 16 5	0 0	51 25 6	1 43	5 27	1 46	19 20	0 42	18 2	0 56	6 48	0 38	20 41	1 30	10 37	11 39	20 32	20 15	10 37	15 51	6 56
M23	20 12	26 2 3	26 17 2	1 0	45 25 6	1 45	5 15	1 47	19 18	0 42	18 1	0 56	6 49	0 38	20 41	1 30	10 37	11 39	20 34	20 16	10 40	15 50	6 57
T 24	20 24		32 17 5	-		1 47	5 3			0 42		0 56	6 50		20 41	1 30				20 16			6 57
W25	20 36		30 18 2			1 48	4 50	1 48		0 42		0 56	6 51		20 42	1 30				20 17			6 58
	20 48		22 18 5		24 25 1	1 50	4 38	1 48		0 42		0 56	6 52		20 42	1 30				20 18			6 58
F 27	-		n48 19 2		17 24 57	1 51	4 26	1 49	-	0 42		0 56	6 53		20 42								6 59
S 28	21 11	12 54 1	58 19 4	9 0	10 24 53	1 53	4 14	1 50	19 5	0 42	17 55	0 56	6 54	0 38	20 43	1 30	10 36	11 39	20 36	20 19	10 54	15 49	6 59
S 29	21 21	7 17 3	2 20	6 0	3 24 49	1 54	4 2	1 50	19 3	0 42	17 54	0 56	6 55	0 38	20 43	1 30	10 36	11 39	20 36	20 20	10 56	15 49	7 0
M30	21 s31	1 s12 3r	n56 20 s4	1 0 s	4 24 s43	1 s55	3n50	1n51	19s 0	0 s42	17 s53	0s56	6 s 5 6	0n38	20 s43	1n30	10n36	11s39	20 s36	20 s20	10s59	15n49	7 s 0

Julian Day Number = 2502617.5, Delta T = 114.95 sec Ecliptic obliquity = $23^{\circ}25'21$, Nutation = $0^{\circ}00'13$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}41'39$, Lahiri = $25^{\circ}48'39$

DECEMBER 2139 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(并	В	S.	v	Ç	Ŗ	Day
T 1	4 38 2	8 × 122'14	2 Υ 2	4 ₹ 0	14る 4	25 m 9	7≈54	12≈48	19 ₾ 17	11 × 756	11°R24	27°R41	28 궁 59	16 ₽ 17	13°R 0	T 1
W 2	4 41 59	9°22'59	16°33	5°34	15°17	25°40	8° 4	12°52	19°20	11°58	11 II 23	27 궁 36	28°56	16°24	12957	W 2
T 3	4 45 55	10°23'45	1816	7° 9	16°30	26°12	8°15	12°57	19°22	12° 0	11°22	27°30	28°53	16°31	12°54	T 3
F 4	4 49 52	11°24'32	16° 3	8°43	17°43	26°43	8°25	13° 1	19°25	12° 2	11°20	27°23	28°49	16°37	12°51	F 4
S 5	4 53 48	12°25'20	0Д48	10°18	18°56	27°14	8°36	13° 6	19°28	12° 5	11°19	27°15	28°46	16°44	12°47	S 5
S 6	4 57 45	13°26'09	15°22	11°52	20° 9	27°45	8°47	13°10	19°30	12° 7	11°18	27° 9	28°43	16°51	12°44	S 6
M 7	5 1 41	14°26'59	29°38	13°26	21°22	28°16	8°58	13°15	19°33	12° 9	11°17	27° 4	28°40	16°57	12°41	M 7
T 8	5 5 38	15°27'50	13931	15° 0	22°35	28°46	9° 9	13°20	19°36	12°12	11°16	27° 1	28°37	17° 4	12°38	T 8
W 9	5 9 35	16°28'43	26°59	16°35	23°48	29°17	9°20	13°25	19°38	12°14	11°15	27°D 0	28°34	17°11	12°34	W 9
T 10	5 13 31	17°29'37	10 0 2	18° 9	25° 1	29°47	9°31	13°30	19°40	12°16	11°14	27° 1	28°30	17°18	12°31	T 10
F 11	5 17 28	18°30'32	22°42	19°43	26°14	0 ჲ 18	9°43	13°35	19°43	12°18	11°13	27° 2	28°27	17°24	12°27	F 11
S 12	5 21 24	19°31'28	5 m) 3	21°17	27°26	0°48	9°54	13°40	19°45	12°21	11°11	27° 4	28°24	17°31	12°24	S 12
S 13	5 25 21	20°32'25	17° 9	22°52	28°39	1°18	10° 6	13°45	19°48	12°23	11°10	27°R 5	28°21	17°38	12°20	S 13
M14	5 29 17	21°33'24	29° 5	24°26	29°51	1°47	10°18	13°50	19°50	12°25	11° 9	27° 5	28°18	17°45	12°16	M14
T 15	5 33 14	22°34'23	10 ≏ 57	26° 0	1≈ 4	2°17	10°29	13°56	19°52	12°27	11° 8	27° 3	28°14	17°51	12°13	T 15
W16	5 37 11	23°35'24	22°49	27°35	2°16	2°46	10°41	14° 1	19°54	12°29	11° 7	27° 0	28°11	17°58	12° 9	W16
T 17	5 41 7	24°36'26	4 M .45	29° 9	3°29	3°16	10°53	14° 6	19°56	12°32	11° 6	26°55	28° 8	18° 5	12° 5	T 17
F 18	5 45 4	25°37'28	16°49	0 중 44	4°41	3°45	11° 5	14°12	19°58	12°34	11° 5	26°49	28° 5	18°11	12° 1	F 18
S 19	5 49 0	26°38'32	29° 4	2°19	5°54	4°14	11°17	14°18	20° 0	12°36	11° 4	26°44	28° 2	18°18	11°58	S 19
S 20	5 52 57	27°39'37	11 ~ 31	3°54	7° 6	4°42	11°29	14°23	20° 2	12°38	11° 3	26°38	27°59	18°25	11°54	S 20
M21	5 56 53	28°40'42	24°11	5°29	8°18	5°11	11°41	14°29	20° 4	12°41	11° 1	26°34	27°55	18°32	11°50	M21
T 22	6 0 50	2 <u>9</u> °41'48	7중 5	7° 4	9°30	5°39	11°54	14°35	20° 6	12°43	11° 0	26°31	27°52	18°38	11°46	T 22
W23	6 4 46	0 궁 42'54	20°12	8°40	10°42	6° 7	12° 6	14°40	20° 8	12°45	10°59	26°D30	27°49	18°45	11°42	W23
T 24	6 8 43	1°44'01	3≈31	10°15	11°54	6°35	12°19	14°46	20°10	12°47	10°58	26°30	27°46	18°52	11°38	T 24
F 25	6 12 40	2°45'08	17° 2	11°51	13° 6	7° 3	12°31	14°52	20°12	12°49	10°57	26°31	27°43	18°58	11°34	F 25
S 26	6 16 36	3°46'16	0) €43	13°26	14°18	7°31	12°44	14°58	20°13	12°51	10°56	26°32	27°40	19° 5	11°30	S 26
S 27	6 20 33	4°47'23	14°35	15° 2	15°30	7°58	12°57	15° 4	20°15	12°54	10°55	26°34	27°36	19°12	11°26	S 27
M28	6 24 29	5°48'31	28°36	16°37	16°42	8°25	13° 9	15°10	20°17	12°56	10°54	26°35	27°33	19°19	11°22	M28
T 29	6 28 26	6°49'39	12 Y 44	18°13	17°53	8°52	13°22	15°16	20°18	12°58	10°53	26°R35	27°30	19°25	11°18	T 29
W30	6 32 22	7°50'46	26°59	19°49	19° 5	9°19	13°35	15°23	20°20	13° 0	10°52	26°34	27°27	19°32	11°14	W30
T 31	6 36 19	8 궁 51'54	11818	21 る 24	20≈16	9 ≙ 45	13 ≈ 48	15≈29	20₽21	13 × 2	10 Ⅱ 51	26 궁 32	27 る 24	19 ≏ 39	119510	T 31

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F 4 S 5 S 6		24 29 4 17		37 24 5 2 1	3 3 1 54 2 51 1 54		17 46 0 56		20 45 1 30	10 35 11 38	20 42 20	23 11 13	15 48 7 2
M 7 T 8 W 9	22 44	25 48 2 23 23 56 1 12 20 45 0 0	23 13 0 4 23 30 0 5 23 46 1	55 23 33 2 3 1 23 22 2 4	2 28 1 56 2 16 1 56 2 4 1 57	18 40 0 42 18 37 0 42 18 34 0 42	17 42 0 56 17 41 0 56	7 3 0 38 7 4 0 38 7 5 0 38	20 46 1 30 20 46 1 30	10 35 11 38 10 35 11 38 10 35 11 38	20 44 20 20 44 20 20 45 20	0 25 11 18 0 25 11 21 0 26 11 24	15 48 7 3 15 48 7 3 15 48 7 4
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S 20 M21 T 22 W23 T 24 F 25	23 24 23 25 23 25 23 25 23 25 23 25	25 48 3 42 26 5 2 48 24 58 1 45 22 28 0 35 18 44 0n39 13 58 1 51	25 15 1 5 25 15 1 5 25 14 2 25 11 2 25 6 2 25 0 2	54 20 29 2 4	0 2 2 5 0s 8 2 5 0 19 2 6 0 30 2 7 0 40 2 7 0 50 2 8	17 59 0 42 17 56 0 42 17 53 0 42 17 49 0 42 17 46 0 42	17 24 0 56 17 22 0 56 17 21 0 56 17 19 0 56 17 17 0 56 17 15 0 56	7 14 0 38 7 15 0 38 7 16 0 38 7 16 0 38 7 17 0 39 7 18 0 39	20 49 1 30 20 49 1 30 20 49 1 30 20 50 1 30 20 50 1 30	10 34 11 37 10 34 11 37	20 49 20 20 50 20 20 50 20 20 50 20 20 50 20 20 50 20	0 33 11 54 0 34 11 57 0 34 12 0 0 35 12 2 0 36 12 5 0 36 12 8	15 48 7 7 15 48 7 7 15 48 7 7 15 48 7 8 15 48 7 8 15 49 7 8
T 29 W30	23 20 23 18 23 15 23 11 23 s 8	3n42 4 39 9 43 5 6 15 17 5 15	24 44 2 1 24 33 2 1 24 21 2 1 24 8 2 1 23 s53 2 s1	11 17 41 1 57 11 17 18 1 56 11 16 54 1 54	1 20 2 10 1 30 2 11 1 40 2 12	17 31 0 42 17 28 0 42 17 24 0 42	17 8 0 56	7 19 0 39 7 20 0 39 7 20 0 39	20 51 1 30 20 51 1 30 20 51 1 30 20 51 1 30 20 52 1 30 20 552 1 n30	10 34 11 36 10 34 11 36 10 34 11 36	20 49 20 20 49 20 20 50 20	0 38 12 16 0 39 12 18 0 39 12 21	15 49 7 9 15 49 7 9 15 50 7 9

Julian Day Number = 2502647.5, Delta T = 115.01 sec Ecliptic obliquity = 23°25'20, Nutation = $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}41'43$, Lahiri = $25^{\circ}48'44$