

Astrodienst Ephemeris Tables for the year 1439

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 1439 JC 00:00 UT

Day	Sid.t	0	D	ğ	ρ	♂	4	ħ)ţ(¥	В	n	Ω	Ç	ķ	Day
T 1	7 14 54	19 ට 15'18	23947	27 × 19	24 × 744	23 ~ 35	8 3 14	15 Υ 24	24°R23	3°R37	17°R33	23°R30	24 m 56	27923	9Υ 4	T 1
F 2	7 18 50	20°16'23	5Ω38	28°38	25°59	24°19	8°28	15°26	24822	3 Mp 36	17931	23 m/19	24°53	27°30	9° 5	F 2
S 3	7 22 47	21°17'28	17°29	29°58	27°13	25° 4	8°42	15°29	24°21	3°35	17°30	23°11	24°50	27°37	9° 6	S 3
S 4	7 26 43	22°18'32	29°20	1 ට 19	28°28	25°48	8°56	15°32	24°20	3°34	17°29	23° 5	24°47	27°44	9° 8	S 4
M 5	7 30 40	23°19'35	11 mp 16	2°42	29°43	26°33	9°10	15°35	24°19	3°33	17°27	23° 2	24°44	27°50	9° 9	M 5
T 6	7 34 36	24°20'38	23°20	4° 5	0 ප්	27°17	9°23	15°38	24°18	3°32	17°26	23°D 1	24°40	27°57	9°10	T 6
W 7	7 38 33	25°21'40	5 <u>Ω</u> 36	5°29	2°13	28° 2	9°37	15°41	24°17	3°30	17°25	23° 2	24°37	28° 4	9°12	W 7
T 8	7 42 29	26°22'42	18° 8	6°54	3°28	28°47	9°51	15°44	24°17	3°29	17°23	23° 3	24°34	28°10	9°13	T 8
F 9	7 46 26	27°23'43	1M 2	8°20	4°42	29°31	10° 4	15°47	24°16	3°28	17°22	23°R 3	24°31	28°17	9°15	F 9
S 10	7 50 23	28°24'44	14°20	9°47	5°57	0 궁 16	10°18	15°50	24°15	3°27	17°21	23° 1	24°28	28°24	9°17	S 10
S 11	7 54 19	29°25'44	28° 8	11°15	7°12	1° 1	10°32	15°54	24°14	3°25	17°20	22°58	24°25	28°30	9°18	S 11
M12	7 58 16	0≈26'43	12 × 25	12°43	8°27	1°46	10°45	15°57	24°14	3°24	17°18	22°52	24°21	28°37	9°20	M12
T 13	8 2 12	1°27'42	27° 8	14°13	9°42	2°30	10°59	16° 1	24°13	3°23	17°17	22°45	24°18	28°44	9°22	T 13
W14	8 6 9	2°28'39	12 궁 13	15°43	10°57	3°15	11°12	16° 5	24°13	3°21	17°16	22°37	24°15	28°51	9°24	W14
T 15	8 10 5	3°29'36	27°31	17°13	12°12	4° 0	11°26	16° 9	24°12	3°20	17°15	22°29	24°12	28°57	9°26	T 15
F 16	8 14 2	4°30'32	12 ≈ 49	18°45	13°27	4°45	11°39	16°13	24°12	3°19	17°13	22°23	24° 9	29° 4	9°28	F 16
S 17	8 17 58	5°31'26	27°58	20°17	14°41	5°30	11°53	16°17	24°11	3°17	17°12	22°18	24° 5	29°11	9°30	S 17
S 18	8 21 55	6°32'20	12){ 47	21°50	15°56	6°15	12° 6	16°21	24°11	3°16	17°11	22°16	24° 2	29°17	9°32	S 18
M19	8 25 52	7°33'11	27°11	23°24	17°11	7° 0	12°19	16°25	24°11	3°14	17°10	22°D15	23°59	29°24	9°34	M19
T 20	8 29 48	8°34'02	11 Y 8	24°58	18°26	7°45	12°33	16°29	24°11	3°13	17° 8	22°16	23°56	29°31	9°36	T 20
W21	8 33 45	9°34'50	24°37	26°33	19°41	8°30	12°46	16°34	24°10	3°11	17° 7	22°18	23°53	29°37	9°38	W21
T 22	8 37 41	10°35'38	7840	28° 9	20°56	9°15	12°59	16°38	24°10	3°10	17° 6	22°R19	23°50	29°44	9°40	T 22
F 23	8 41 38	11°36'23	20°22	29°46	22°11	10° 1	13°12	16°43	24°D10	3° 8	17° 5	22°18	23°46	29°51	9°43	F 23
S 24	8 45 34	12°37'07	2 Ⅱ 46	1≈24	23°25	10°46	13°25	16°48	24°10	3° 7	17° 4	22°16	23°43	29°57	9°45	S 24
S 25	8 49 31	13°37'50	14°57	3° 2	24°40	11°31	13°38	16°52	24°10	3° 5	17° 2	22°12	23°40	0 Ω 4	9°47	S 25
M26	8 53 27	14°38'31	26°58	4°41	25°55	12°16	13°51	16°57	24°10	3° 4	17° 1	22° 7	23°37	0°11	9°50	M26
T 27	8 57 24	15°39'10	8953	6°21	27°10	13° 2	14° 4	17° 2	24°11	3° 2	17° 0	22° 0	23°34	0°18	9°52	T 27
W28	9 1 21	16°39'48	20°45	8° 2	28°25	13°47	14°17	17° 7	24°11	3° 0	16°59	21°53	23°31	0°24	9°55	W28
T 29	9 5 17	17°40'24	2€35	9°43	29°40	14°32	14°30	17°12	24°11	2°59	16°58	21°46	23°27	0°31	9°57	T 29
F 30	9 9 14	18°40'58	14°27	11°26	0≈54	15°18	14°43	17°17	24°11	2°57	16°57	21°41	23°24	0°38	10° 0 10 ° 2	F 30
S 31	9 13 10	19≈41'31	26 Ω 21	13≈10	2≈ 9	16 궁 3	14 궁 55	17 Y 22	24812	2 M 56	16956	21 m 37	23 Mp 21	0 Ω 44	10 Υ 2	S 31

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T 1 F 2 S 3		15 17 3 45	23 s 0 5 23 9 8 23 18	0n29 22 s49 0 21 22 54 0 12 22 58	0 33 23	0 27	23 s17 23 16 3 23 15	0 s 2 0 2 0 2	3n46 3 47 3 49	2 30	18n44 18 44 18 43	0 12			23n52 1n32 23 53 1 32 23 53 1 32	2 40	2 2	16n29 16 28 16 27	5n 3 1n34 5 3 1 34 5 3 1 34
S 4 M 5 T 6 W 7 T 8	21 39 21 29 21 19 21 8 20 56	6 24 1 2 2 41 0n 2 1 s12 1	3 23 26 2 23 33 2 23 38 7 23 43 1 23 46	0 4 23 2 0s 4 23 6 0 12 23 8 0 19 23 10 0 27 23 1	6 0 25 23 8 0 22 23 0 0 20 24	57 0 29 59 0 30 0 0 30	3 23 14 9 23 14 9 23 13 9 23 12 23 11	0 2 0 2 0 2 0 2 0 2	3 50 3 51 3 53 3 54 3 56	2 29 2 29 2 29 2 29 2 28	18 43 18 43	0 12 0 12 0 12	11 1 11 2 11 2	0 50 0 50 0 50	23 53 1 32 23 53 1 32 23 54 1 32 23 54 1 32 23 54 1 32	2 46 2 47 2 47	2 6 2 7 2 9	16 26 16 26 16 25 16 24 16 23	5 4 1 34 5 4 1 34 5 5 1 34 5 5 1 33 5 6 1 33
F 9 S 10		12 22 4 0	23 49 23 50	0 34 23 1 0 41 23 1	0 12 24	3 0 32		0 2 0 3	3 57 3 59	2 28	18 42 18 42	0 12	11 3	0 51 0 51	23 54 1 32	2 47	2 12	16 22 16 21	5 6 1 33 5 7 1 33
S 11 M12 T 13 W14 T 15 F 16	20 7 19 54 19 40 19 26 19 11	17 22 5 2 18 23 5 6 18 9 4 49 16 36 4 12 13 52 3 16	2 23 49 2 23 48 5 23 45 9 23 41 2 23 36 5 23 29	0 48 23 10 0 54 23 8 1 1 23 0 1 7 23 3 1 12 22 59 1 18 22 54	8 0 6 24 6 0 4 24 8 0 1 24 9 0s 2 24 4 0 4 24	3 0 33 4 0 34 4 0 34 3 0 35 3 0 36 2 0 36	1 23 7 1 23 6 5 23 5 5 23 4 5 23 3	0 3 0 3 0 3 0 3 0 3	4 0 4 2 4 4 4 5 4 7 4 9	2 27 2 27 2 27 2 27 2 26	18 42 18 41 18 41 18 41	0 12 0 12 0 12 0 12 0 12 0 12	11 4 11 5 11 6 11 6 11 7	0 51 0 51 0 51 0 51 0 51	23 55 1 33 23 55 1 33 23 55 1 33 23 56 1 33 23 56 1 33	3 2 50 3 2 53 3 2 56 3 2 59 3 3 2	2 15 2 16 2 17 2 19 2 20	16 21 16 20 16 19 16 18 16 17 16 16	5 7 1 33 5 8 1 33 5 8 1 32 5 9 1 32 5 9 1 32 5 10 1 32
S 17 S 18 M19 T 20 W21 T 22 F 23	18 42 18 26 18 10 17 54 17 38 17 21	6 0 0 5 1 32 0s2 2n53 1 40 6 59 2 40 10 37 3 4 13 39 4 24	22 48 5 22 34 1 22 19 1 22 2	1 23 22 49 1 28 22 43 1 33 22 30 1 38 22 29 1 42 22 2 1 46 22 13 1 49 22 3	3 0 10 23 5 0 12 23 9 0 15 23 1 0 17 23 2 0 20 23 3 0 22 23	58 0 38 56 0 39 54 0 40 51 0 40 49 0 41	3 23 1 3 23 0 22 59 0 22 57 0 22 56 22 55	0 3 0 3 0 3 0 4 0 4 0 4	4 10 4 12 4 14 4 16 4 18 4 20 4 22	2 26 2 26 2 25 2 25 2 25 2 25 2 25	18 41 18 41 18 41 18 41 18 41		11 8 11 8 11 9 11 9 11 10 11 10	0 51 0 51 0 51 0 51 0 51 0 51	23 56 1 33 23 56 1 33 23 57 1 33 23 57 1 33 23 57 1 33 23 57 1 33	3 3 5 3 3 5 3 3 4 3 3 4 3 3 4	2 22 2 24 2 25 2 26 2 28 2 29	16 15 16 15 16 14 16 13 16 12 16 11 16 10	5 11 1 32 5 11 1 32 5 12 1 32 5 13 1 31 5 13 1 31 5 14 1 31 5 15 1 31
S 24 S 25 M26 T 27 W28 T 29 F 30 S 31	16 47 16 29 16 11 15 53 15 35 15 16	17 33 5 8 18 19 5 9 18 16 4 5 17 25 4 32 15 49 3 56 13 32 3 9	3 21 44 3 21 25 9 21 3 7 20 41 2 20 17 5 19 51 9 19 24 4 18 \$55	1 53 21 53 1 55 21 42 1 58 21 30 2 0 21 18 2 2 21 6 2 3 20 53 2 4 20 39 2s 5 20 \$24	2 0 27 23 0 0 30 23 8 0 32 23 6 0 34 23 8 0 36 23 9 0 39 23	43 0 42 39 0 43 36 0 44 32 0 44 28 0 45 23 0 46	2 22 54 2 22 53 3 22 51 4 22 50 4 22 49 5 22 48 6 22 46 5 22 845	0 4 0 4 0 4 0 4 0 5 0 5 0 5	4 24 4 26 4 28 4 30 4 32 4 34 4 36 4n39	2 24 2 24 2 24 2 23 2 23 2 23	-	0 11 0 11 0 11 0 11 0 11 0 11	11 11 11 12 11 12 11 13 11 13 11 14 11 15 11n15	0 51 0 51 0 51 0 51 0 51 0 51	23 57 1 33 23 58 1 33 23 59 1 33 23 59 1 33	3 3 6 3 3 8 3 11 3 3 14 3 16 3 19	2 30 2 31 2 33 2 34 2 35 2 36 2 38 2n39	16 9 16 8 16 7 16 6 16 5	5 16 1 31 5 17 1 31 5 17 1 31 5 18 1 30 5 19 1 30 5 20 1 30 5 21 1 30 5 n22 1 n30

Julian Day Number = 2246652.5, Delta T = 06m49s

Ecliptic obliquity = $23^{\circ}30'34$, Nutation = - $0^{\circ}00'01$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°54'50, Lahiri = 16°01'51 Julian Calendar 1 Jan. 1439 == Greg. Calendar 10 Jan. 1439

FEBRUARY 1439 JC 00:00 UT

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Day	Sid.t	0	D	Ϋ́	φ	ď	4	ħ)∤(¥	Р	n	S	Ç	ę,	Day
S 1	9 17 7	20≈42'02	8 m 20	14≈54	3≈24	16 පි 48	15る 8	17 Y 28	24812	2°R54	16°R55	21°R34	23 Mp 18	0 Ω 51	10 Y 5	S 1
M 2	9 21 3	21°42'32	20°24	16°39	4°39	17°34	15°21	17°33	24°13	2 m 52	16954	21°D33	23°15	0°58	10° 8	M 2
T 3	9 25 0	22°43'00	2 ॒ 38	18°25	5°54	18°19	15°33	17°39	24°13	2°51	16°53	21 m 34	23°11	1° 4	10°10	T 3
W 4	9 28 56	23°43'27	15° 2	20°12	7° 8	19° 5	15°46	17°44	24°14	2°49	16°52	21°35	23° 8	1°11	10°13	W 4
T 5	9 32 53	24°43'52	27°40	22° 0	8°23	19°50	15°58	17°50	24°15	2°47	16°51	21°37	23° 5	1°18	10°16	T 5
F 6	9 36 50	25°44'16	10 M .36	23°49	9°38	20°36	16°10	17°55	24°15	2°46	16°50	21°38	23° 2	1°25	10°19	F 6
S 7	9 40 46	26°44'39	23°52	25°39	10°53	21°22	16°23	18° 1	24°16	2°44	16°49	21°R39	22°59	1°31	10°22	S 7
S 8	9 44 43	27°45'00	7 ∡ 31	27°30	12° 8	22° 7	16°35	18° 7	24°17	2°42	16°48	21°39	22°56	1°38	10°25	S 8
M 9	9 48 39	28°45'20	21°34	29°22	13°22	22°53	16°47	18°13	24°18	2°41	16°47	21°37	22°52	1°45	10°28	M 9
T 10	9 52 36	29°45'38	6 ප 0	1) 1 4	14°37	23°39	16°59	18°19	24°19	2°39	16°46	21°35	22°49	1°51	10°31	T 10
W11	9 56 32	0) 45′55	20°46	3° 8	15°52	24°24	17°11	18°24	24°19	2°37	16°45	21°32	22°46	1°58	10°34	W11
T 12	10 0 29	1°46'10	5≈46	5° 2	17° 7	25°10	17°23	18°31	24°20	2°36	16°44	21°30	22°43	2° 5	10°37	T 12
F 13	10 4 25	2°46'24	20°51	6°56	18°22	25°56	17°35	18°37	24°22	2°34	16°43	21°27	22°40	2°11	10°40	F 13
S 14	10 8 22	3°46'35	5) 52	8°51	19°36	26°42	17°47	18°43	24°23	2°32	16°42	21°26	22°37	2°18	10°43	S 14
S 15	10 12 19	4°46'45	20°42	10°47	20°51	27°27	17°58	18°49	24°24	2°31	16°41	21°D25	22°33	2°25	10°46	S 15
M16	10 16 15	5°46'53	5 Υ 11	12°43	22° 6	28°13	18°10	18°55	24°25	2°29	16°41	21°26	22°30	2°31	10°49	M16
T 17	10 20 12	6°46'59	19°16	14°39	23°20	28°59	18°21	19° 2	24°26	2°27	16°40	21°27	22°27	2°38	10°52	T 17
W18	10 24 8	7°47'02	2 8 55	16°35	24°35	29°45	18°33	19° 8	24°28	2°26	16°39	21°28	22°24	2°45	10°56	W18
T 19	10 28 5	8°47'04	16° 7	18°30	25°50	0≈31	18°44	19°14	24°29	2°24	16°38	21°29	22°21	2°51	10°59	T 19
F 20	10 32 1	9°47'03	28°56	20°25	27° 5	1°17	18°55	19°21	24°30	2°22	16°38	21°30	22°17	2°58	11° 2	F 20
S 21	10 35 58	10°47'01	11 Ⅱ 24	22°19	28°19	2° 2	19° 7	19°28	24°32	2°21	16°37	21°R30	22°14	3° 5	11° 5	S 21
S 22	10 39 54	11°46'56	23°36	24°11	29°34	2°48	19°18	19°34	24°33	2°19	16°36	21°30	22°11	3°12	11° 9	S 22
M23	10 43 51	12°46'48	5936	26° 2	0 ∺ 49	3°34	19°29	19°41	24°35	2°17	16°36	21°29	22° 8	3°18	11°12	M23
T 24	10 47 47	13°46'39	17°29	27°50	2° 3	4°20	19°39	19°48	24°36	2°16	16°35	21°28	22° 5	3°25	11°16	T 24
W25	10 51 44	14°46'27	29°19	29°36	3°18	5° 6	19°50	19°54	24°38	2°14	16°34	21°27	22° 2	3°32	11°19	W25
T 26	10 55 41	15°46'13	11 \O 10	1 Υ 19	4°32	5°52	20° 1	20° 1	24°40	2°12	16°34	21°26	21°58	3°38	11°22	T 26
F 27	10 59 37	16°45'57	23° 4	2°58	5°47	6°38	20°11	20° 8	24°41	2°11	16°33	21°25	21°55	3°45	11°26	F 27
S 28	11 3 34	17) 45'39	5Mm, 4	4 Υ33	7 ∺ 2	7≈24	20 궁 22	20 Υ 15	24 8 43	2MD 9	16933	21 Mp 25	21 m 52	3Ω 52	11 Y 29	S 28

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S 1	14 s38	7n22	1 s12	18s25	2s 5	20s 9	0 s43	23 s14	0 s47	22 s44	0s 5	4n41	2 s23	18n42	0s11	11n16	0n51	23n59	1n34	3n21	2n40	16n 2	5n23	1n30
M 2	14 19	3 43	0 6	17 53	2 5	19 53	0 45	23 9	0 48	22 42	0 5	4 43	2 22	18 42	0 11	11 16	0 51	23 59	1 34	3 22	2 41	16 1	5 24	1 30
T 3	13 59	0 s 7	1n 0	17 19	2 4	19 37	0 47	23 3	0 48	22 41	0 5	4 45	2 22	18 42	0 11	11 17	0 51	23 59	1 34	3 21	2 43	16 1	5 25	1 29
W 4	13 39	4 1	2 5	16 44	2 3	19 20	0 49	22 57	0 49	22 40	0 5	4 48	2 22	18 42	0 11	11 18	0 51	23 59	1 34	3 21	2 44	16 0	5 26	1 29
T 5	13 19	7 47	3 6	16 8	2 2	19 3	0 51	22 51	0 50	22 38	0 5	4 50	2 22	18 42	0 11	11 18	0 51	24 0	1 34	3 20	2 45	15 59	5 27	1 29
F 6	12 59	11 17	3 58	15 30	2 0	18 45	0 53	22 45	0 50	22 37	0 5	4 52	2 21	18 43	0 11	11 19	0 51	24 0	1 34	3 20	2 46	15 58	5 28	1 29
S 7	12 38	14 17	4 39	14 50	1 57	18 26	0 55	22 39	0 51	22 36	0 6	4 55	2 21	18 43	0 11	11 19	0 51	24 0	1 34	3 19	2 48	15 57	5 29	1 29
S 8	12 17	16 36	5 6	14 9	1 54	18 7	0 57	22 32	0 52	22 34	0 6	4 57	2 21	18 43	0 11	11 20	0 51	24 0	1 34	3 19	2 49	15 56	5 30	1 29
M 9	11 56	18 0	5 15	13 27	1 50	17 48	0 59	22 25	0 52	22 33	0 6	4 59	2 21	18 43	0 11	11 21	0 51	24 0	1 34	3 20	2 50	15 55	5 31	1 29
T 10	11 35	18 18	5 5	12 43	1 46	17 28	1 1	22 18	0 53	22 31	0 6	5 2	2 21	18 43	0 11	11 21	0 51	24 0	1 34	3 21	2 51	15 54	5 32	1 29
W11	11 14	17 22	4 35	11 58	1 41	17 7	1 2	22 11	0 54	22 30	0 6	5 4	2 21	18 44	0 11	11 22	0 51	24 1	1 34	3 22	2 53	15 53	5 33	1 28
T 12	10 53	15 14	3 46	11 11	1 36	16 46	1 4	22 3	0 54	22 29	0 6	5 7	2 20	18 44	0 11	11 23	0 51	24 1	1 34	3 23	2 54	15 52	5 34	1 28
F 13	10 31	12 3	2 41	10 23	1 30	16 25	1 6	21 55	0 55	22 27	0 6	5 9	2 20	18 44	0 11	11 23	0 51	24 1	1 34	3 24	2 55	15 51	5 35	1 28
S 14	10 9	8 4	1 25	9 34	1 23	16 3	1 7	21 47	0 55	22 26	0 6	5 12	2 20	18 45	0 11	11 24	0 51	24 1	1 34	3 24	2 56	15 51	5 36	1 28
S 15	9 47	3 38	0 4	8 43	1 16	15 40	1 9	21 39	0 56	22 24	0 6	5 14	2 20	18 45	0 11	11 24	0 51	24 1	1 34	3 25	2 58	15 50	5 37	1 28
M16	,	0n55	1 s 1 5	7 52	1 8	15 18		21 30		22 23	0 7	5 17	2 20	18 45		11 25			1 34	3 25		15 49	5 38	1 28
T 17	-	5 17	2 28	6 59	1 0	14 54		21 22		22 21	0 7	5 19	2 19	18 45		11 26	0 51		1 34	3 24		15 48	5 40	1 28
W18		9 14	3 30	6 6	0 51	14 31	1 13	21 12	0 58	22 20	0 7	5 22	2 19	18 46	0 11	11 26	0 51	24 2	1 34	3 24	3 2	15 47	5 41	1 28
T 19		12 35	4 19	5 12	0 42	14 7		21 3	0 59	22 19	0 7	5 24	2 19	18 46		11 27		24 2	1 34	3 23		15 46	5 42	1 27
F 20	7 55	15 13	4 53	4 17	0 31	13 42		20 54	0 59	22 17	0 7	5 27	2 19	18 47		11 27		24 2	1 34	3 23		15 45	5 43	1 27
S 21	7 33	17 4	5 12	3 23	0 21	13 17	1 17	20 44	1 0	22 16	0 7	5 30	2 19	18 47	0 11	11 28	0 51	24 2	1 34	3 23	3 5	15 44	5 44	1 27
S 22	7 10	18 5	5 17	2 28	0 10	12 52	1 18	20 34	1 0	22 14	0 7	5 32	2 19	18 47	0 11	11 29	0 51	24 2	1 34	3 23	3 7	15 43	5 45	1 27
M23	6 47	18 16	5 8	1 33	0n 2	12 27	1 19	20 24	1 1	22 13	0 7	5 35	2 19	18 48	0 11	11 29	0 51	24 2	1 34	3 23	3 8	15 42	5 47	1 27
T 24	-	17 39	4 45	0 39	0 14	12 1	1 20	20 14	1 2	22 11	0 7	5 38	2 18	18 48	0 11	11 30	0 51	24 2	1 34	3 24	3 9	15 41	5 48	1 27
W25	-	16 16	4 11	0n15	0 27	11 35	1 21	20 3	1 2	22 10	0 8	5 40	2 18	18 48	0 11	11 30	0 51	24 2	1 34	3 24	3 10	15 40	5 49	1 27
T 26	5 38	14 11	3 25	1 8	0 39	11 8	1 22	19 52	1 3	22 8	0 8	5 43	2 18	18 49	0 11	11 31	0 51	24 3	1 34	3 24	3 12	15 39	5 50	1 27
F 27	-	11 29	2 31	1 59	0 52	10 42	1 22	19 42	1 3	22 7	0 8	5 46	2 18	18 49	0 11	11 32	0 51	24 3	1 35	3 25	3 13	15 38	5 52	1 27
S 28	4 s 5 1	8n18	1 s30	2n49	1n 5	10s14	1 s23	19 s30	1s 4	22 s 6	0 s 8	5n48	2s18	18n50	0s11	11n32	0n51	24n 3	1n35	3n25	3n14	15n37	5n53	1n26

Julian Day Number = 2246683.5, Delta T = 06m49s
Ecliptic obliquity = 23°30'35, Nutation = -0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 16°54'54, Lahiri = 16°01'55 Julian Calendar 1 Feb. 1439 == Greg. Calendar 10 Feb. 1439

MARCH 1439 JC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)ţ(¥	В	R	Ω	Ç	ķ	Day
S 1	11 7 30	18) (45'18	17 m)12	6 Υ 4	8 ₩ 16	8≈10	20 3 32	20 Y 22	24845	2°R 8	16°R32	21°D25	21 m) 49	3 Ω 58	11 Y 33	S 1
M 2	11 11 27	19°44'56	29°30	7°29	9°31	8°56	20°43	20°29	24°47	2 m) 6	16932	21 m/25	21°46	4° 5	11°36	M 2
T 3	11 15 23	20°44'32	12 <u>♀</u> 0	8°49	10°45	9°42	20°53	20°36	24°49	2° 5	16°31	21°25	21°42	4°12	11°40	T 3
W 4	11 19 20	21°44'05	24°41	10° 3	12° 0	10°28	21° 3	20°43	24°51	2° 3	16°31	21°R25	21°39	4°18	11°43	W 4
T 5	11 23 16	22°43'37	7 M 37	11°11	13°14	11°14	21°13	20°50	24°53	2° 1	16°30	21°25	21°36	4°25	11°47	T 5
F 6	11 27 13	23°43'07	20°46	12°12	14°29	12° 0	21°23	20°57	24°55	2° 0	16°30	21°25	21°33	4°32	11°50	F 6
S 7	11 31 10	24°42'35	4 ₹ 11	13° 7	15°43	12°47	21°32	21° 4	24°57	1°58	16°30	21°24	21°30	4°39	11°54	S 7
S 8	11 35 6	25°42'02	17°52	13°54	16°58	13°33	21°42	21°11	24°59	1°57	16°29	21°24	21°27	4°45	11°58	S 8
M 9	11 39 3	26°41'26	1 云 48	14°33	18°12	14°19	21°52	21°19	25° 1	1°55	16°29	21°D24	21°23	4°52	12° 1	M 9
T 10	11 42 59	27°40'49	16° 0	15° 6	19°27	15° 5	22° 1	21°26	25° 3	1°54	16°29	21°24	21°20	4°59	12° 5	T 10
W11	11 46 56	28°40'10	0≈24	15°30	20°41	15°51	22°10	21°33	25° 6	1°52	16°28	21°25	21°17	5° 5	12° 9	W11
T 12	11 50 52	29°39'30	14°59	15°47	21°56	16°37	22°19	21°40	25° 8	1°51	16°28	21°26	21°14	5°12	12°12	T 12
F 13	11 54 49	0 Ƴ 38'47	29°38	15°57	23°10	17°23	22°28	21°48	25°10	1°50	16°28	21°26	21°11	5°19	12°16	F 13
S 14	11 58 45	1°38'03	14) (17	15°R59	24°25	18°10	22°37	21°55	25°13	1°48	16°28	21°R27	21° 8	5°25	12°20	S 14
S 15	12 2 42	2°37'16	28°49	15°54	25°39	18°56	22°46	22° 3	25°15	1°47	16°27	21°27	21° 4	5°32	12°23	S 15
M16	12 6 39	3°36'27	13 ° 8	15°42	26°54	19°42	22°55	22°10	25°18	1°45	16°27	21°26	21° 1	5°39	12°27	M16
T 17	12 10 35	4°35'37	27° 9	15°24	28° 8	20°28	23° 3	22°17	25°20	1°44	16°27	21°25	20°58	5°45	12°31	T 17
W18	12 14 32	5°34'44	10848	14°59	29°23	21°14	23°12	22°25	25°22	1°43	16°27	21°23	20°55	5°52	12°34	W18
T 19	12 18 28	6°33'49	24° 3	14°29	0 Υ 37	22° 0	23°20	22°32	25°25	1°41	16°27	21°21	20°52	5°59	12°38	T 19
F 20	12 22 25	7°32'51	6耳56	13°55	1°51	22°47	23°28	22°40	25°28	1°40	16°27	21°19	20°48	6° 5	12°42	F 20
S 21	12 26 21	8°31'52	19°29	13°16	3° 6	23°33	23°36	22°48	25°30	1°39	16°27	21°17	20°45	6°12	12°45	S 21
S 22	12 30 18	9°30'50	19544	12°34	4°20	24°19	23°44	22°55	25°33	1°37	16°D27	21°16	20°42	6°19	12°49	S 22
M23	12 34 14	10°29'46	13°46	11°50	5°34	25° 5	23°52	23° 3	25°36	1°36	16°27	21°D16	20°39	6°25	12°53	M23
T 24	12 38 11	11°28'39	25°40	11° 4	6°49	25°51	23°59	23°10	25°38	1°35	16°27	21°17	20°36	6°32	12°57	T 24
W25	12 42 7	12°27'30	7 Ω 30	10°18	8° 3	26°37	24° 7	23°18	25°41	1°34	16°27	21°18	20°33	6°39	13° 0	W25
T 26	12 46 4	13°26'19	19°21	9°32	9°17	27°23	24°14	23°25	25°44	1°33	16°27	21°20	20°29	6°46	13° 4	T 26
F 27	12 50 1	14°25'06	1 m) 18	8°47	10°31	28°10	24°21	23°33	25°47	1°32	16°27	21°21	20°26	6°52	13° 8	F 27
S 28	12 53 57	15°23'50	13°24	8° 4	11°46	28°56	24°28	23°41	25°49	1°30	16°27	21°23	20°23	6°59	13°12	S 28
S 29	12 57 54	16°22'32	25°42	7°24	13° 0	29°42	24°35	23°48	25°52	1°29	16°27	21°R23	20°20	7° 6	13°15	S 29
M30	13 1 50	17°21'12	8 ≏ 15	6°47	14°14	0 ∺ 28	2 <u>4</u> °42	23°56	25°55	1°28	16°28	21°22	20°17	7°12	13°19	M30
T 31	13 5 47	18 Ƴ 19'50	21 ♀ 3	6 Υ 14	15 Y 28	1) (14	24 궁 48	24 ° 4	25 8 58	1 m) 27	169528	21 m 19	20 Mp 13	7Ω 19	13 Y 23	T 31

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M	2 4	4	0 53	0n45	4 23	1 31	9 20	1 24	19 7	1 5	22 3	0 8	5 54	2 18	18 51	0 11	11 33	0 51	24 3	1 35	3 25	3 17	15 35	5 55	1 26
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T	5 2	54	10 28	3 49	6 25	2 9	7 55	1 26	18 32	1 7	21 58	0 9	6 2	2 17	18 52	0 11	11 35	0 51	24 3	1 35	3 25	3 20	15 32	5 59	1 26
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S	7 2	6	16 4	5 3	7 31	2 31	6 58	1 26	18 7	1 8	21 56	0 9	6 8	2 17	18 53	0 11	11 36	0 51	24 3	1 35	3 25	3 23	15 30	6 2	1 26
S	8 1	43	17 42	5 17	7 58	2 41	6 29	1 27	17 54	1 9	21 54	0 9	6 11	2 17	18 54	0 11	11 37	0 51	24 3	1 35	3 25	3 24	15 29	6 3	1 26
M	9 1	19	18 18	5 12	8 23	2 51	6 0	1 27	17 41	1 9	21 53	0 9	6 13	2 17	18 54	0 11	11 37	0 51	24 3	1 35	3 25	3 25	15 28	6 5	1 26
T 1	0 0	55	17 46	4 49	8 43	2 59	5 31	1 27	17 28	1 10	21 51	0 9	6 16	2 17	18 55	0 11	11 38	0 51	24 4	1 35	3 25	3 27	15 27	6 6	1 25
W		32	16 6	4 7	8 59	3 6	5 2	1 27	17 15	1 10	21 50	0 9	6 19	2 17	18 55	0 11	11 38	0 51	24 4	1 35	3 25	3 28	15 27	6 7	1 25
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M	-	26	3n24	1 57	9 19	3 23	2 33	1 26	16 6	1 13	21 43	0 10	6 33	2 16	18 58	0 11	11 41	0 51	24 4	1 35	3 24	3 34	15 22	6 14	1 25
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S 2	22 3	47	18 19	5 11	7 36	2 51	0n28	1 23	14 39	1 16	21 36	0 11	6 50	2 16	19 2	0 10	11 44	0 51	24 4	1 35	3 28	3 42	15 15	6 22	1 24
M	23 4	10	17 57	4 52	7 9	2 40	0 58	1 22	14 24	1 16	21 35	0 11	6 53	2 16	19 3	0 10	11 44	0 51	24 4	1 35	3 28	3 43	15 14	6 24	1 24
T 2	24 4	33	16 48	4 21	6 40	2 28	1 28	1 21	14 9	1 17	21 34	0 11	6 56	2 15	19 3	0 10	11 44	0 51	24 4	1 35	3 28	3 44	15 13	6 25	1 24
W	25 4	56	14 55	3 39	6 9	2 15	1 58	1 20	13 53	1 17	21 32	0 11	6 59	2 15	19 4	0 10	11 45	0 51	24 4	1 35	3 27	3 45	15 12	6 27	1 24
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F 2	27 5	42	9 21	1 48	5 7	1 46	2 58	1 19	13 22	1 18	21 30	0 12	7 5	2 15	19 5	0 10	11 46	0 51	24 4	1 35	3 26	3 48	15 10	6 29	1 24
S 2	28 6	5	5 52	0 44	4 35	1 30	3 28	1 18	13 6	1 19	21 29	0 12	7 7	2 15	19 6	0 10	11 46	0 51	24 4	1 35	3 26	3 49	15 9	6 31	1 24
S	29 6	27	2 5	0n24	4 4	1 14	3 58	1 16	12 51	1 19	21 28	0 12	7 10	2 15	19 7	0 10	11 46	0 51	24 4	1 35	3 26	3 51	15 8	6 32	1 24
M3	6 6	50	1 s53	1 31	3 35	0 57	4 28	1 15	12 35	1 19	21 27	0 12	7 13	2 15	19 8	0 10	11 47	0 51	24 4	1 35	3 26	3 52	15 7	6 34	1 24
T 3	31 71	'n12	5 s 5 0	2n36	3n 6	0n41	4n58	1 s 1 4	12 s19	1 s20	21 s26	0s12	7n16	2s15	19n 8	0s10	11n47	0n51	24n 4	1n35	3n27	3n53	15n 6	6n35	1n24

Julian Day Number = 2246711.5, Delta T = 06m48s

Ecliptic obliquity = $23^{\circ}30'35$, Nutation = $-0^{\circ}00'02$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°54'58, Lahiri = 16°01'59 Julian Calendar 1 March 1439 == Greg. Calendar 10 March 1439

APRIL 1439 JC 00:00 UT

T 2																	
T 2	Day	Sid.t	0	D	ğ	·	♂ [™]	4	ħ)∤(¥	Р	ß	ß	Ç	δ,	Day
F 3 13 17 36 21°15'33 0x759 5° 1 19°11 3°32 25° 7 24°27 26° 7 1°24 16°29 21° 7 20° 4 7°39 13°33 S 5 13 25 30 22°14'04 14°44 4°47 20°25 4°19 25°13 24°34 26°10 1°23 16°29 21° 2 20° 1 7°46 13°33 S 5 13 2530 23°12'33 28°38 4°37 21°39 5° 5 5°51 25°24 24°50 26°16 1°22 16°30 20°59 19°58 7°52 13°41 M 6 13 29 26 24°11'01 12°40 4°30 25°51 25°30 24°58 26°19 1°21 16°30 20°57 19°51 8°6 13°49 W 8 13 37 19 26°48 4°34 24°7 6°37 25°30 24°58 26°19 1°21 16°30 20°57 19°48 8°12 13°52 1°1 13°41	W 1	13 943	19 Y 18'26	4M 7		16 Y 42	2) 0	24중55	24 Y 11	26 8 1	1°R26	169528	21°R16	20 m) 10		13 Y 26	W 1
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T 7 13 33 23 25° 9'27 26°48 4°34 24° 7 6°37 25°30 24°58 26°19 1°21 16°30 20°57 19°51 8° 6 13°49 W 8 13 37 19 26° 751 11 № 0 4°39 25°21 7°23 25°35 25° 5 26°23 1°20 16°31 20°57 19°48 8°12 13°55 F 10 13 45 12 28° 4735 9¥28 5° 5 27°50 8°55 25°45 25°21 26°29 1°18 16°31 20°59 19°45 8°19 13°50 S 11 13 49 9 29° 2'54 23°40 5°25 29° 4 9°41 25°50 25°28 26°32 1°18 16°32 21°80 19°39 8°32 14°3 S 12 13 53 5 08′112 7°45 5°50 08′18 10°27 25°54 25°36 26°35 1°17 16°32 20°59 19°35 8°39 14°15 M13 13 5°7 2	S 5															13°41	S 5
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S 12 13 53 5 0 11 1 7 7 45 5°50 0 18 10°27 25°54 25°36 26°35 1°17 16°32 20°59 19°35 8°39 14° 0 14° 1 14 14 15° 2 0°59′28 21°41 6°18 1°32 11°13 25°59 25°44 26°39 1°16 16°33 20°56 19°32 8°46 14°11 14 14 15° 9 1°57′42 5 25′55 6°51 2°46 11°59 26° 3 25°51 26°42 1°15 16°34 20°51 19°29 8°52 14°14 14 14 15° 9 1°57′42 5 25′55 18°52 7°28 4° 0 12°45 26° 7 25°59 26°45 1°15 16°34 20°45 19°26 8°59 14°18 16° 14 18°52 3°54′06 2									-					-		14° 0	F 10
M13	S 11	13 49 9	29° 2'54	23°40	5°25	29° 4	9°41	25°50	25°28	26°32	1°18	16°32	21°R 0	19°39	8°32	14° 3	S 11
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T 16	1															14°14	T 14
F 17	1					-	_							-			W15
S 18 14 16 45 5°50'22 2°22 9°41 7°42 15° 2 26°19 26°22 26°55 1°13 16°36 20°23 19°16 9°19 14°26 S 19 14 20 41 6°48'27 9©38 10°32 8°56 15°48 26°22 26°30 26°58 1°13 16°37 20°18 19°10 9°26 14°32 M20 14 24 38 7°46'30 21°40 11°26 10°10 16°34 26°25 26°37 27° 2 1°12 16°37 20°15 19°10 9°32 14°32 T 21 14 28 34 8°44'32 3Ø34 12°24 11°24 17°20 26°28 26°45 27° 5 1°12 16°38 20°D13 19° 7 9°39 14°32 W22 14 32 31 9°42'31 15°24 13°25 12°38 18° 5 26°31 26°53 27° 8 1°11 16°39 20°13 19° 4 9°46 14°42 T 23 14 36 28 10°40'29 27°16 14°28 13°51 18°51 26°34 27° 0 27°12 1°11 1	-					-		-	-					-			T 16
S 19 14 20 41 6°48'27 9©38 10°32 8°56 15°48 26°22 26°30 26°58 1°13 16°37 20°18 19°13 9°26 14°32 M20 14 24 38 7°46'30 21°40 11°26 10°10 16°34 26°25 26°37 27° 2 1°12 16°37 20°15 19°10 9°32 14°32 T 21 14 28 34 8°44'32 3Ø34 12°24 11°24 17°20 26°28 26°45 27° 5 1°12 16°38 20°D13 19° 7 9°39 14°32 W22 14 32 31 9°42'31 15°24 13°25 12°38 18° 5 26°31 26°53 27° 8 1°11 16°38 20°D13 19° 4 9°46 14°42 T 23 14 36 28 10°40'29 27°16 14°28 13°51 18°51 26°34 27° 0 27°12 1°11 16°40 20°14 19° 0 9°53 14°46 F 24 14 40 24 11°38'24 9mp14				-			_		-					-			F 17
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F 24																	W22
S 25 14 44 21 12°36′18 21°24 16°44 16°19 20°22 26°39 27°15 27°19 1°10 16°41 20°R16 18°54 10°6 14°52 S 26 14 48 17 13°34′10 3♠49 17°55 17°33 21°8 26°41 27°23 27°22 1°10 16°42 20°15 18°51 10°13 14°56 M27 14 52 14 14°32′00 16°33 19°10 18°47 21°53 26°43 27°30 27°26 1°10 16°43 20°12 18°48 10°19 14°55 T 28 14 56 10 15°29′49 29°37 20°26 20° 1 22°39 26°44 27°38 27°29 1°10 16°44 20° 6 18°45 10°26 15°3					-								-				T 23
S 26		-											-				F 24
M27	S 25	14 44 21	12°36'18	21°24	16°44	16°19	20°22	26°39	27°15	27°19	1°10	16°41	20°R16	18°54	10° 6	14°53	S 25
T 28 14 56 10 15°29'49 29°37 20°26 20° 1 22°39 26°44 27°38 27°29 1°10 16°44 20° 6 18°45 10°26 15° 3				-			_	-				-				14°56	S 26
		_															M27
W29 15 0 7 16°27'36 13M, 3 21°46 21°15 23°24 26°46 27°45 27°32 1°9 16°45 19°59 18°41 10°33 15° 6						-		-				-				15° 3	T 28
	W29	15 0 7	16°27'36	13 M 3	21°46	21°15	23°24	26°46	27°45	27°32		16°45	19°59	18°41	10°33	15° 6	W29
T30 15 4 3 17825'22 26M47 239 7 22828 24 + 10 26347 27953 27836 1 m 9 16946 19m50 18m38 10039 159 5	T 30	15 4 3	17825'22	26 M 47	23 'Y' 7	22 8 28	24 米 10	26 ~ 47	27 'Y' 53	27 8 36	1 Mp 9	169546	19 m 50	18 m)38	106139	15 ⋎ 9	T 30

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat		decl	lat	decl	lat	decl la	at	decl	lat	decl	decl	decl	decl	lat
W 1	7n35	9s35 3n33	2n40 0n24	5n28 1s13	2 s 2 1 s 2 0	21 s25 0	s12	7n19	2s15	19n 9	0s10	11n48	0n51	24n 4	1n35	3n28	3n54	15n 5	6n36	1n24
T 2	7 57	12 55 4 20	2 15 0 8	5 57 1 12	1 46 1 21	21 24 0	13	7 22	2 15	19 10	0 10	11 48	0 51	24 4	1 35	3 30	3 56	15 4	6 38	1 24
F 3	8 19	15 38 4 54	1 53 Os 8	6 27 1 10	1 30 1 21	21 23 0	13	7 24	2 15	19 10	0 10	11 48	0 51	24 4	1 35	3 32	3 57	15 3	6 39	1 24
S 4	8 41	17 29 5 11	1 33 0 24	6 56 1 9 1	1 13 1 21	21 22 0	13	7 27	2 15	19 11	0 10	11 49	0 51	24 4	1 35	3 34	3 58	15 2	6 41	1 24
S 5	9 3	18 20 5 10	1 15 0 39	7 25 1 7 1		1	13	7 30	2 15	19 12	0 10	11 49	0 51	24 4	1 36	3 35	3 59	15 1	6 42	1 24
M 6	9 24	18 5 4 50	1 0 0 53	7 54 1 6	0 40 1 22	21 20 0	13	7 33	2 15	19 13	0 10	11 49	0 51	24 4	1 36	3 36	4 1	15 0	6 43	1 23
T 7	9 46	16 43 4 14	0 48 1 7	8 23 1 4 1			13	7 36		19 13		11 49	0 51	24 4	1 36	3 36	4 2	14 59	6 45	1 23
W 8	10 7	14 18 3 21	0 38 1 20				14	7 39		19 14				24 4	1 36	3 36	4 3		6 46	1 23
T 9	10 28	11 1 2 16					14	7 41	-	19 15				24 4	1 36	3 35	4 4	14 57	6 47	1 23
F 10	10 49	7 5 1 3	0 26 1 44				14	7 44	-	19 16				24 4	1 36	3 35	4 6		6 49	1 23
S 11	11 10	2 45 0s14	0 24 1 55	10 17 0 58	9 16 1 24	21 16 0	14	7 47	2 15	19 16	0 10	11 50	0 51	24 4	1 36	3 35	4 7	14 55	6 50	1 23
S 12	11 31	1n43 1 30					14	7 50		19 17			0 51		1 36	3 35	4 8		6 52	1 23
M13	11 51	6 1 2 39					14	7 53	-	19 18		-	0 51		1 36	3 36	4 9		6 53	1 23
T 14	12 11	9 57 3 38	0 33 2 22			1	15	7 55	-	19 19		-			1 36	3 38	4 11	-	6 54	1 23
W15		13 16 4 23	0 40 2 30				15	7 58		19 19		-			1 36	3 41			6 56	1 23
T 16	12 51						15	8 1	-	19 20		-		24 4	1 36	3 44		14 49	6 57	1 23
F 17	13 11		1 2 2 43				15	8 4		19 21				24 4	1 36	3 47		14 48	6 58	1 23
S 18	13 30	18 23 5 6					15	8 6		19 22		11 52	0 51	24 4	1 36	3 49	4 16	14 47	7 0	1 23
S 19	13 50		-			1	15	8 9		19 23		-	0 51		1 36	3 51		14 46	7 1	1 23
M20	14 9	17 25 4 24				1	16	8 12		19 23		-	0 51	-	1 36	3 53	-	14 45	7 2	1 23
T 21		15 46 3 45	2 9 3 0			1	16	8 15	-	19 24		-		24 3	1 36	3 53	-	14 44	7 4	1 23
W22	_	13 27 2 57	-				16	8 17		19 25				24 3	1 36	3 53		14 43	7 5	1 23
T 23	-	10 34 2 1	2 54 3 4				16	8 20		19 26				-	1 36	3 53		14 41	7 6	1 23
F 24	15 22	7 13 0 59					16	8 23	-	19 26				24 3	1 36	3 52		14 40	7 8	1 23
S 25	15 40	3 31 On 6	3 44 3 5	16 18 0 29	5 10 1 28	21 9 0	16	8 25	2 15	19 27	0 10	11 53	0 51	24 3	1 36	3 52	4 24	14 39	7 9	1 23
S 26	15 58	0 s 2 5 1 1 2	4 12 3 5	16 41 0 27	4 53 1 28		17	8 28		19 28		11 53	0 51	24 3	1 36	3 53	-	14 38	7 10	1 23
M27	16 15	4 25 2 16	4 41 3 4				17	8 31		19 29				24 3	1 36	3 54		14 37	7 11	1 22
T 28	16 32	8 20 3 15					17	8 33		19 30				24 3	1 36	3 56	4 28		7 13	1 22
W29		11 55 4 4	5 43 3 0				17	8 36	-	19 30				24 3	1 36	3 59	-		7 14	1 22
T 30	17n 5	14s57 4n41	6n16 2s58	18n 9 0s18	3 s41 1 s29	21s 9 0	s17	8n38	2s16	19n31	0s10	11n53	0n51	24n 3	1n36	4n 2	4n30	14n34	7n15	1n22

Julian Day Number = 2246742.5, Delta T = 06m48s

Ecliptic obliquity = 23°30'35, Nutation = -0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 16°55'02, Lahiri = 16°02'03 Julian Calendar 1 Apr. 1439 == Greg. Calendar 10 Apr. 1439

MAY 1439 JC 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ð	4	ħ)∤(¥	В	₽.	v	Ç	ķ	Day
F 1	15 8 0	18823'07	10 ∡ 147	24 Y 31	23842	24) 55	26 궁 49	28 Y 0	27 8 39	1°R 9	169346	19°R41	18 m 35	10 Ω 46	15 Y 13	F 1
S 2	15 11 56	19°20'50	24°58	25°58	24°56	25°41	26°50	28° 7	27°43	1 m) 9	16°47	19 m /32	18°32	10°53	15°16	S 2
S 3	15 15 53	20°18'32	9 ට 15	27°27	26°10	26°26	26°50	28°15	27°46	1° 9	16°48	19°25	18°29	10°59	15°19	S 3
M 4	15 19 50	21°16'13	23°34	28°58	27°24	27°12	26°51	28°22	27°50	1°D 9	16°49	19°19	18°25	11° 6	15°22	M 4
T 5	15 23 46	22°13'52	7≈50	0 8 31	28°37	27°57	26°52	28°29	27°53	1° 9	16°50	19°17	18°22	11°13	15°26	T 5
W 6	15 27 43	23°11'31	22° 1	2° 7	29°51	28°42	26°52	28°37	27°57	1° 9	16°51	19°D16	18°19	11°19	15°29	W 6
T 7	15 31 39	24° 9'09	6 米 5	3°45	1 II 5	29°27	26°R52	28°44	28° 0	1° 9	16°53	19°16	18°16	11°26	15°32	T 7
F 8	15 35 36	25° 6'45	20° 2	5°25	2°19	0 Υ 13	26°52	28°51	28° 4	1° 9	16°54	19°R16	18°13	11°33	15°35	F 8
S 9	15 39 32	26° 4'21	3 ℃ 51	7° 8	3°32	0°58	26°51	28°58	28° 7	1° 9	16°55	19°16	18°10	11°39	15°38	S 9
S 10	15 43 29	27° 1'56	17°32	8°52	4°46	1°43	26°51	29° 5	28°11	1°10	16°56	19°13	18° 6	11°46	15°41	S 10
M11	15 47 25	27°59'30	1 8 3	10°39	6° 0	2°28	26°50	29°13	28°14	1°10	16°57	19° 7	18° 3	11°53	15°44	M11
T 12	15 51 22	28°57'03	14°23	12°29	7°13	3°13	26°49	29°20	28°18	1°10	16°58	18°59	18° 0	11°59	15°47	T 12
W13	15 55 19	29°54'35	27°30	14°20	8°27	3°58	26°48	29°27	28°21	1°10	16°59	18°48	17°57	12° 6	15°50	W13
T 14	15 59 15	0 Ⅲ 52'05	10 Ⅲ 24	16°14	9°41	4°43	26°47	29°34	28°25	1°11	17° 0	18°36	17°54	12°13	15°53	T 14
F 15	16 3 12	1°49'35	23° 3	18°10	10°54	5°28	26°45	29°41	28°29	1°11	17° 2	18°24	17°50	12°19	15°55	F 15
S 16	16 7 8	2°47'04	5927	20° 8	12° 8	6°13	26°44	29°47	28°32	1°11	17° 3	18°13	17°47	12°26	15°58	S 16
S 17	16 11 5	3°44'31	17°38	22° 8	13°22	6°57	26°42	29°54	28°36	1°12	17° 4	18° 3	17°44	12°33	16° 1	S 17
M18	16 15 1	4°41'57	29°38	24°10	14°35	7°42	26°40	0 8 1	28°39	1°12	17° 5	17°56	17°41	12°39	16° 4	M18
T 19	16 18 58	5°39'22	11 0 31	26°13	15°49	8°27	26°38	0° 8	28°43	1°13	17° 7	17°51	17°38	12°46	16° 7	T 19
W20	16 22 54	6°36'46	23°20	28°19	17° 3	9°11	26°35	0°15	28°46	1°13	17° 8	17°49	17°35	12°53	16° 9	W20
T 21	16 26 51	7°34'09	5 m 10	0П26	18°16	9°56	26°33	0°21	28°50	1°14	17° 9	17°D49	17°31	12°59	16°12	T 21
F 22	16 30 48	8°31'31	17° 8	2°35	19°30	10°40	26°30	0°28	28°53	1°14	17°10	17°R49	17°28	13° 6	16°14	F 22
S 23	16 34 44	9°28'51	29°18	4°44	20°44	11°25	26°27	0°35	28°57	1°15	17°12	17°48	17°25	13°13	16°17	S 23
S 24	16 38 41	10°26'11	11 ≏ 45	6°55	21°57	12° 9	26°24	0°41	29° 0	1°16	17°13	17°46	17°22	13°19	16°19	S 24
M25	16 42 37	11°23'29	24°34	9° 6	23°11	12°54	26°21	0°48	29° 3	1°16	17°14	17°43	17°19	13°26	16°22	M25
T 26	16 46 34	12°20'47	7 M .48	11°18	24°24	13°38	26°17	0°54	29° 7	1°17	17°16	17°36	17°16	13°33	16°24	T 26
W27	16 50 30	13°18'03	21°27	13°30	25°38	14°22	26°14	1° 1	29°10	1°18	17°17	17°27	17°12	13°39	16°27	W27
T 28	16 54 27	14°15'19	5 ₹ 31	15°42	26°51	15° 6	26°10	1° 7	29°14	1°18	17°19	17°16	17° 9	13°46	16°29	T 28
F 29	16 58 23	15°12'35	19°54	17°53	28° 5	15°50	26° 6	1°13	29°17	1°19	17°20	17° 5	17° 6	13°53	16°31	F 29
S 30	17 2 20	16° 9'49	4 궁 31	20° 4	29°18	16°34	26° 2	1°19	29°21	1°20	17°21	16°54	17° 3	13°59	16°34	S 30
S 31	17 6 17	17 II 7'04	19 ට 13	22 II 14	0932	17 Y 18	25 ප 57	1826	29 8 24	1 m 21	17923	16 m /45	17 m) 0	14 0 6	16 Y 36	S 31

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F 1 S 2	17n21 17 37	17s10 5n 1 18 22 5 3	6n50 2s5 7 25 2 5		3 s23 1 s29 3 5 1 29	21s 9 0s17 21 9 0 18			11n53 0n51 11 53 0 51	24n 3 1n36 24 3 1 36	4n 6 4 9	4n32 14n33 4 33 14 31	7n16 1n22 7 18 1 22
S 3 M 4 T 5 W 6 T 7 F 8	17 53 18 8 18 23 18 38 18 52 19 6	17 18 4 12 15 6 3 22 12 0 2 20 8 14 1 10	10 35 2 2	0 19 30 0 8 5 19 49 0 6 9 20 7 0 4	2 29 1 30 2 11 1 30 1 53 1 30 1 36 1 30	21 9 0 18 21 9 0 18 21 9 0 18 21 9 0 18 21 9 0 19 21 9 0 19 21 9 0 19	8 49 2 16 8 51 2 16 8 54 2 16 8 56 2 16	19 34 0 10 19 35 0 10 19 36 0 10 19 37 0 10	11 53 0 51 11 53 0 51	24 2 1 36 24 2 1 36 24 2 1 36 24 2 1 36	4 12 4 14 4 15 4 16 4 16 4 15	4 34 14 30 4 35 14 28 4 37 14 28 4 38 14 27 4 39 14 20 4 40 14 25	7 20 1 22 7 21 1 22 7 22 1 22 7 24 1 22
S 9 S 10 M11 T 12 W13 T 14 F 15 S 16	19 20 19 33 19 46 19 59 20 11 20 24 20 35	0n22 1 17 4 41 2 24 8 42 3 23 12 14 4 9 15 5 4 41 17 9 4 59 18 19 5 1	11 56 2 12 37 1 5 13 19 1 5 14 1 1 4 14 43 1 3 15 26 1 2 16 8 1 1	7 20 59 0 4 9 21 15 0 6 0 21 31 0 8 1 21 46 0 11 2 22 0 0 13	1 0 1 30 0 42 1 30 0 24 1 30 0 6 1 30 0n12 1 31 0 30 1 31 0 47 1 31	21 9 0 19 21 10 0 19 21 10 0 19 21 10 0 20 21 11 0 20 21 11 0 20	9 1 2 16 9 4 2 16 9 6 2 16 9 8 2 16 9 11 2 17 9 13 2 17 9 15 2 17	19 38 0 10 19 39 0 10 19 40 0 10 19 41 0 10 19 42 0 10 19 42 0 10 19 43 0 10	11 53 0 51 11 52 0 50 11 52 0 50	24 2 1 36 24 2 1 37 24 2 1 37 24 2 1 37 24 1 1 37 24 1 1 37 24 1 1 37	4 16 4 17 4 19 4 22 4 27 4 31 4 36 4 40	4 42 14 24 4 43 14 22 4 44 14 21 4 45 14 20 4 47 14 19 4 48 14 18 4 49 14 17 4 50 14 16	7 26 1 22 7 27 1 22 7 28 1 22 7 29 1 22 7 30 1 22 7 32 1 22 7 33 1 22
S 17 M18 T 19 W20 T 21 F 22 S 23	20 58 21 8 21 19 21 29 21 38 21 47 21 56	16 36 3 46 14 30 3 0 11 48 2 6 8 37 1 7 5 3 0 4	18 12 0 4 18 52 0 3 19 32 0 1 20 10 0 20 46 0n		1 41 1 31 1 58 1 31 2 16 1 31 2 33 1 31 2 51 1 31	21 14 0 21 21 15 0 21 21 15 0 21	9 22 2 17 9 25 2 17 9 27 2 17 9 29 2 17 9 31 2 18	19 46 0 10 19 46 0 10 19 47 0 10 19 48 0 10 19 49 0 10	11 52 0 50 11 52 0 50 11 52 0 50 11 51 0 50 11 51 0 50 11 51 0 50 11 51 0 50	24 1 1 37 24 1 1 37 24 1 1 37 24 0 1 37 24 0 1 37	4 44 4 47 4 49 4 50 4 50 4 50 4 50	4 52 14 14 4 53 14 13 4 54 14 12 4 55 14 11 4 58 14 59 14 7	7 36 1 22 7 37 1 22 7 38 1 22 7 39 1 22 7 40 1 22
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	22 41 22 47	6 44 3 2 10 30 3 52 13 49 4 31 16 27 4 54 18 8 5 0 18 39 4 47	22 26 0 3 22 55 0 4 23 21 0 5 23 45 1 24 7 1 1 24 26 1 1		3 43 1 30 4 0 1 30 4 18 1 30 4 35 1 30 4 52 1 30 5 9 1 30	21 18 0 22 21 18 0 22 21 19 0 22 21 20 0 22 21 21 0 23 21 22 0 23 21 23 0 23 21 24 0s23	9 38 2 18 9 40 2 18 9 42 2 18 9 44 2 18 9 46 2 19 9 48 2 19	19 51 0 10 19 52 0 10 19 52 0 10 19 53 0 10 19 54 0 10 19 55 0 10		24 0 1 37 24 0 1 37 24 0 1 37 24 0 1 37	4 51 4 52 4 55 4 58 5 3 5 7 5 11 5n15	5 0 14 6 5 2 14 5 5 3 14 4 5 4 14 3 5 5 14 1 5 7 14 0 5 8 13 59 5n 9 13n58	7 43 1 22 7 44 1 22 7 45 1 22 7 45 1 22 7 46 1 22 7 47 1 22

Julian Day Number = 2246772.5, Delta T = 06m48s

Ecliptic obliquity = $23^{\circ}30'34$, Nutation = - $0^{\circ}00'05$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°55'07, Lahiri = 16°02'07 Julian Calendar 1 May 1439 == Greg. Calendar 10 May 1439

JUNE 1439 JC 00:00 UT

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M 1	17 10 13	18 I I 4'17	3≈54	24Ⅲ23	19945	18 ° 2	25°R53	1832	29 8 27	1 m) 22	179524	16°R38	16 m 56	14Ω13	16 Y 38	M 1
T 2	17 14 10	19° 1'31	18°27	26°30	2°59	18°46	25 る 48	1°38	29°31	1°23	17°26	16 m /34	16°53	14°19	16°40	T 2
W 3	17 18 6	19°58'44	2) 48	28°36	4°12	19°30	25°43	1°44	29°34	1°24	17°27	16°32	16°50	14°26	16°42	W 3
T 4	17 22 3	20°55'57	16°55	09541	5°26	20°13	25°38	1°50	29°37	1°24	17°29	16°32	16°47	14°33	16°44	T 4
F 5	17 25 59	21°53'10	0 Υ 46	2°43	6°39	20°57	25°33	1°56	29°41	1°25	17°30	16°32	16°44	14°39	16°46	F 5
S 6	17 29 56	22°50'23	14°23	4°44	7°53	21°41	25°28	2° 2	29°44	1°26	17°32	16°31	16°41	14°46	16°48	S 6
S 7	17 33 53	23°47'36	27°46	6°43	9° 6	22°24	25°23	2° 7	29°47	1°28	17°33	16°28	16°37	14°53	16°50	S 7
M 8	17 37 49	24°44'49	10 8 57	8°40	10°20	23° 8	25°17	2°13	29°51	1°29	17°35	16°22	16°34	14°59	16°52	M 8
T 9	17 41 46	25°42'02	23°56	10°35	11°33	23°51	25°11	2°19	29°54	1°30	17°36	16°13	16°31	15° 6	16°54	T 9
W10	17 45 42	26°39'14	6 Ⅱ 43	12°27	12°46	24°34	25° 6	2°24	29°57	1°31	17°38	16° 2	16°28	15°13	16°56	W10
T 11	17 49 39	27°36'27	19°19	14°18	14° 0	25°17	25° 0	2°30	0 I I 0	1°32	17°39	15°49	16°25	15°19	16°58	T 11
F 12	17 53 35	28°33'39	19543	16° 6	15°13	26° 1	24°54	2°35	0° 4	1°33	17°41	15°36	16°22	15°26	16°59	F 12
S 13	17 57 32	29°30'51	13°57	17°53	16°27	26°44	24°47	2°41	0° 7	1°34	17°42	15°24	16°18	15°33	17° 1	S 13
S 14	18 1 28	09528'03	26° 0	19°37	17°40	27°27	24°41	2°46	0°10	1°36	17°44	15°14	16°15	15°39	17° 2	S 14
M15	18 5 25	1°25'15	7Ω 55	21°19	18°53	28° 9	24°35	2°51	0°13	1°37	17°45	15° 6	16°12	15°46	17° 4	M15
T 16	18 9 22	2°22'27	19°44	22°58	20° 7	28°52	24°28	2°56	0°16	1°38	17°47	15° 1	16° 9	15°53	17° 5	T 16
W17	18 13 18	3°19'38	1 m 31	24°36	21°20	29°35	24°21	3° 1	0°19	1°40	17°49	14°58	16° 6	15°59	17° 7	W17
T 18	18 17 15	4°16'49	13°21	26°11	22°33	0 8 18	24°15	3° 6	0°22	1°41	17°50	14°D57	16° 2	16° 6	17° 8	T 18
F 19	18 21 11	5°14'00	25°17	27°45	23°47	1° 0	24° 8	3°11	0°25	1°42	17°52	14°57	15°59	16°13	17°10	F 19
S 20	18 25 8	6°11'10	7 ≏ 25	29°16	25° 0	1°42	24° 1	3°16	0°28	1°44	17°53	14°R58	15°56	16°19	17°11	S 20
S 21	18 29 4	7° 8'21	19°51	0 Ω 45	26°13	2°25	23°54	3°21	0°31	1°45	17°55	14°57	15°53	16°26	17°12	S 21
M22	18 33 1	8° 5'31	2 M .40	2°11	27°27	3° 7	23°47	3°26	0°34	1°47	17°57	14°54	15°50	16°33	17°13	M22
T 23	18 36 57	9° 2'41	15°55	3°36	28°40	3°49	23°39	3°30	0°37	1°48	17°58	14°50	15°47	16°39	17°14	T 23
W24	18 40 54	9°59'52	29°38	4°58	29°53	4°31	23°32	3°35	0°40	1°50	18° 0	14°43	15°43	16°46	17°15	W24
T 25	18 44 51	10°57'02	13 х 49	6°17	1 0 7	5°13	23°25	3°39	0°43	1°51	18° 1	14°34	15°40	16°53	17°16	T 25
F 26	18 48 47	11°54'12	28°25	7°35	2°20	5°55	23°17	3°44	0°46	1°53	18° 3	14°25	15°37	16°59	17°17	F 26
S 27	18 52 44	12°51'23	13 る 18	8°49	3°33	6°37	23°10	3°48	0°49	1°54	18° 5	14°16	15°34	17° 6	17°18	S 27
S 28	18 56 40	13°48'34	28°21	10° 2	4°46	7°19	23° 2	3°52	0°52	1°56	18° 6	14° 8	15°31	17°13	17°19	S 28
M29	19 0 37	14°45'46	13 ≈ 23	11°12	5°59	8° 0	22°55	3°57	0°54	1°58	18° 8	14° 3	15°28	17°19	17°20	M29
T 30	19 433	159542'58	28 ≈ 16	12 Ω 19	7 Ω 13	8 8 42	22 궁 47	4 8 1	0 Ц 57	1 m 59	1895 9	13 m 59	15 m 24	17 Ω 26	17 Y 21	T 30

Day	0	D		ģ	P		ď	4	2	+	ħ	<u></u>);	j(4	(Р		n	Ω	ţ	ķ	
	decl	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl la	at	decl	decl	decl	decl	lat
M 1 T 2	22n58 23 3		25 24n55 23 25 5	_	24n26 24 27		5n43 6 0		21 s25 21 26	0 s23 0 24	9n52 9 54		19n56 19 57		11n48 11 48			1n37 1 37	5n17 5 19	5n10 5 12	13n57 13 55	7n49 7 50	1n22 1 22
W 3 T 4 F 5	23 8 23 12 23 16	5 13 0s	12 25 12 2 25 17	1 47	24 26	1 2	6 16 6 33 6 49	1 29	21 27 21 28 21 29	0 24 0 24 0 24	9 56 9 58 10 0	2 19	19 58 19 58 19 59	0 10	11 47 11 47 11 47	0 50 0 50 0 50	23 59	1 37 1 38 1 38	5 20 5 20 5 20	5 13 5 14 5 15	13 53	7 51 7 51	1 22 1 22 1 22
S 6	23 19	3n31 2	15 25 19 22 25 18	1 53	24 22	1 6	7 6	1 29	21 30	0 24	10 2	2 20	20 0	0 10	11 46	0 50	23 58	1 38	5 20	5 16	13 51	7 52 7 53	1 22
S 7 M 8 T 9	23 22 23 24 23 26	11 15 4	20 25 15 6 25 10 39 25 2	1 57		1 9	7 22 7 39 7 55	1 28	21 32 21 33 21 34	0 24 0 25 0 25	10 5	2 20 2 20 2 20	20 1	0 10	11 46 11 46 11 45	0 50	23 58	1 38 1 38 1 38	5 22 5 24 5 27	5 18 5 19 5 20		7 54 7 54 7 55	1 22 1 22 1 22
W10 T 11	23 28 23 29	18 5 5	57 24 52 0 24 40	1 57	24 0	1 14	8 11 8 27	1 28	21 35 21 37		10 10	2 20 2 21	20 3	0 10	11 45 11 44	0 50 0 50	23 57	1 38 1 38	5 32 5 37		13 46 13 45	7 56 7 56	1 22 1 22
F 12 S 13		18 23 4	49 24 26 25 24 11	1 53	23 46	1 17	8 43 8 59	1 27	21 38 21 39	0 26	10 12 10 14	2 21 2 21	20 5	0 10	11 44 11 43	0 50	23 57	1 38 1 38	5 42 5 46	5 25		7 57 7 58	1 22 1 22
S 14 M15 T 16	23 31 23 30 23 29	15 23 3	49 23 54 3 23 35 10 23 15	1 47	23 38 23 30 23 20	1 20	9 14 9 30 9 45	1 27	21 40 21 42 21 43	0 26	10 15 10 17 10 19	2 21 2 21 2 22	20 6	0 10	11 43 11 42 11 42		23 57	1 38 1 38 1 38	5 50 5 53 5 55	5 26 5 28 5 29	13 40	7 58 7 59 7 59	1 22 1 22 1 22
W17 T 18	23 28 23 26	9 52 1	10 23 13 11 22 53 9 22 30	1 39	23 10		10 1	1 26	21 43 21 44 21 46	0 26	10 19 10 20 10 22	2 22 2 22 2 22	20 7	0 10	11 42 11 42 11 41	0 50	23 57	1 38 1 38	5 56 5 57	5 30		8 0 8 0	1 22 1 22 1 22
S 20	23 24 23 22		55 22 7 57 21 42		22 48 22 36	1 25	10 46	1 25	21 47 21 49	0 27	10 23 10 25	2 22 2 22	20 9	0 10	11 41 11 40			1 38 1 38	5 57 5 56	5 34	13 34	8 1 8 1	1 22 1 22
S 21 M22 T 23	23 19 23 16 23 12	8 54 3	55 21 16 46 20 50 27 20 23	1 8	22 24 22 10 21 56	1 27 1 28 1 29	11 16	1 24	21 50 21 51 21 53	0 27	10 26 10 27 10 29	2 23	20 10 20 10 20 11	0 10	11 39 11 39 11 38	0 50 0 50 0 50	23 56	1 38 1 38 1 38	5 57 5 58 6 0	5 36	13 32 13 31 13 30	8 2 8 2 8 3	1 22 1 22 1 22
W24 T 25	23 8 23 3	17 30 5	54 19 56 4 19 28	0 44	21 42 21 27		12 0	1 24 1 23	21 54 21 56	0 28 0 28	10 31	2 23	20 12 20 12	0 10	11 38 11 37	0 50 0 50	23 55	1 39 1 39	6 2 6 6	5 39 5 40		8 3 8 4	1 22 1 22
F 26 S 27	22 53	18 25 4	55 18 59 26 18 30	0 25	21 11 20 54	1 31 1 32	12 28	1 22	21 57 21 58		10 34	2 24	20 13 20 13	0 10	11 37 11 36		23 55	1 39	6 9 6 13	5 42	13 26 13 25	8 4 8 4	1 22 1 22
S 28 M29 T 30	-	14 21 2	39 18 2 36 17 33 23 17n 4	0 5	20 38 20 20 20n 2	1 33 1 33 1n34	12 56	1 22	22 0 22 1 22s 3	0 28	10 35 10 36 10n38	2 24	20 14 20 15 20n15	0 10	11 36 11 35 11n34	0 50	23 55	1 39 1 39 1n39	6 16 6 18 6n19	5 45	13 24 13 22 13n21	8 5 8 5 8n 5	1 22 1 22 1n22

Julian Day Number = 2246803.5, Delta T = 06m48s

Ecliptic obliquity = 23°30'34, Nutation = -0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 16°55'11, Lahiri = 16°02'11 Julian Calendar 1 June 1439 == Greg. Calendar 10 June 1439

JULY 1439 JC 00:00 UT

Day	Sid.t	0	D	ğ	φ	o ⁷	4	ħ)Å(¥	Р	n	Ω	Ç	ķ	Day
W 1	19 8 30	16940'10	12) (54	13 Ω 23	8 Ω 26	9 8 23	22°R40	4 8 5	1 I I 0	2 Mp 1	189911	13°D59	15 m)21	17 Ω 33	17 Υ 22	W 1
T 2	19 12 26	17°37'23	27°12	14°25	9°39	10° 5	22 る 32	4° 8	1° 2	2° 3	18°13	13 m 59	15°18	17°39	17°22	T 2
F 3	19 16 23	18°34'37	11 Y 8	15°24	10°52	10°46	22°24	4°12	1° 5	2° 4	18°14	14° 0	15°15	17°46	17°23	F 3
S 4	19 20 20	19°31'52	24°44	16°20	12° 5	11°27	22°16	4°16	1° 8	2° 6	18°16	14°R 0	15°12	17°53	17°23	S 4
S 5	19 24 16	20°29'08	8 8 0	17°12	13°18	12° 8	22° 9	4°20	1°10	2° 8	18°18	13°58	15° 8	17°59	17°24	S 5
M 6	19 28 13	21°26'25	20°59	18° 2	14°31	12°49	22° 1	4°23	1°13	2° 9	18°19	13°55	15° 5	18° 6	17°24	M 6
T 7	19 32 9	22°23'42	3 Ⅱ 43	18°48	15°44	13°30	21°53	4°27	1°15	2°11	18°21	13°49	15° 2	18°13	17°25	T 7
W 8	19 36 6	23°21'00	16°14	19°30	16°57	14°10	21°45	4°30	1°18	2°13	18°22	13°41	14°59	18°19	17°25	W 8
T 9	19 40 2	24°18'20	28°34	20° 9	18°11	14°51	21°38	4°33	1°20	2°15	18°24	13°33	14°56	18°26	17°25	T 9
F 10	19 43 59	25°15'40	109545	20°44	19°24	15°31	21°30	4°36	1°23	2°17	18°26	13°24	14°53	18°33	17°25	F 10
S 11	19 47 55	26°13'01	22°47	21°14	20°37	16°12	21°22	4°39	1°25	2°19	18°27	13°15	14°49	18°39	17°26	S 11
S 12	19 51 52	27°10'22	4 Ω 42	21°41	21°50	16°52	21°15	4°42	1°27	2°20	18°29	13° 8	14°46	18°46	17°26	S 12
M13	19 55 49	28° 7'44	16°32	22° 3	23° 3	17°32	21° 7	4°45	1°30	2°22	18°31	13° 3	14°43	18°53	17°R26	M13
T 14	19 59 45	29° 5'08	28°20	22°21	24°16	18°12	20°59	4°48	1°32	2°24	18°32	13° 0	14°40	18°59	17°26	T 14
W15	20 3 42	0 Ω 2'31	10 m) 6	22°34	25°29	18°52	20°52	4°51	1°34	2°26	18°34	12°D58	14°37	19° 6	17°26	W15
T 16	20 7 38	0°59'56	21°57	22°42	26°42	19°31	20°44	4°53	1°36	2°28	18°35	12°59	14°34	19°13	17°25	T 16
F 17	20 11 35	1°57'21	3 ≏ 54	22°R44	27°54	20°11	20°37	4°56	1°38	2°30	18°37	13° 0	14°30	19°19	17°25	F 17
S 18	20 15 31	2°54'47	16° 2	22°42	29° 7	20°50	20°29	4°58	1°40	2°32	18°39	13° 2	14°27	19°26	17°25	S 18
S 19	20 19 28	3°52'13	28°27	22°35	0 m 20	21°30	20°22	5° 1	1°43	2°34	18°40	13°R 3	14°24	19°33	17°25	S 19
M20	20 23 24	4°49'41	11 M .13	22°22	1°33	22° 9	20°14	5° 3	1°45	2°36	18°42	13° 3	14°21	19°39	17°24	M20
T 21	20 27 21	5°47'09	24°23	22° 4	2°46	22°48	20° 7	5° 5	1°47	2°38	18°43	13° 1	14°18	19°46	17°24	T 21
W22	20 31 18	6°44'38	8 √ 2	21°40	3°59	23°27	20° 0	5° 7	1°48	2°40	18°45	12°58	14°14	19°53	17°24	W22
T 23	20 35 14	7°42'08	22° 9	21°12	5°11	24° 6	19°53	5° 9	1°50	2°42	18°46	12°54	14°11	19°59	17°23	T 23
F 24	20 39 11	8°39'39	6 ප 43	20°39	6°24	24°44	19°46	5°11	1°52	2°44	18°48	12°49	14° 8	20° 6	17°22	F 24
S 25	20 43 7	9°37'10	21°39	20° 2	7°37	25°23	19°39	5°12	1°54	2°46	18°49	12°44	14° 5	20°13	17°22	S 25
S 26	20 47 4	10°34'43	6≈49	19°20	8°50	26° 1	19°32	5°14	1°56	2°48	18°51	12°40	14° 2	20°19	17°21	S 26
M27	20 51 0	11°32'17	22° 2	18°35	10° 2	26°40	19°26	5°15	1°57	2°51	18°53	12°38	13°59	20°26	17°20	M27
T 28	20 54 57	12°29'52	7 ∺ 10	17°48	11°15	27°18	19°19	5°17	1°59	2°53	18°54	12°D36	13°55	20°32	17°20	T 28
W29	20 58 53	13°27'29	22° 3	16°58	12°28	27°56	19°13	5°18	2° 1	2°55	18°56	12°37	13°52	20°39	17°19	W29
T 30	21 2 50	14°25'07	6 Υ 36	16° 8	13°40	28°33	19° 6	5°19	2° 2	2°57	18°57	12°38	13°49	20°46	17°18	T 30
F 31	21 6 47	15 Ω 22'46	20 Ƴ 44	15 Ω 17	14 m 53	29 8 11	19 る 0	5 8 20	2 I I 4	2 m 59	189559	12 m 39	13 M 46	$20\Omega52$	17 Y 17	F 31

Day	0	D			φ		ď	1	2	+	ŧ);	β(4	(Р	n	Ω	Ç	Š.
	decl	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl lat
W 1 T 2 F 3 S 4	22n28 22 21 22 13 22 5	6s39 On 2 12 1s 2n16 2 6 29 3	10 16 6 21 15 38	0 28 0 40	19n43 19 24 19 4 18 44	-		1 20	22 7	0 s29 0 29 0 29 0 29	10 40 10 41	2 25 2 25	20n16 20 16 20 17 20 17	0 10 0 10	11n34 11 33 11 33 11 32	0n50 0 50 0 50 0 50	23 54 1 3 23 54 1 3	9 6 19 9 6 19	5n47 5 49 5 50 5 51	13 18	8n 6 1n22 8 6 1 22 8 6 1 22 8 6 1 22
S 5 M 6 T 7 W 8 T 9	21 57 21 48 21 39 21 29 21 19	16 0 5 17 43 5	43 14 16 2 13 50 7 13 24	1 16 1 29 1 42	18 23 18 2 17 40 17 18 16 55	1 35 1 35 1 35 1 35 1 34	14 29 14 42 14 55	1 18 1 18 1 17	22 10 22 11 22 13 22 14 22 15	0 29 0 30 0 30	10 43 10 44 10 45 10 46 10 47	2 26 2 26 2 26	20 18 20 18 20 19 20 19 20 20	0 10 0 10 0 10	11 31 11 31 11 30 11 29 11 29	0 50 0 50 0 50 0 50 0 50	23 54 1 2 23 53 1 2 23 53 1 2	9 6 21 9 6 23 9 6 26	5 54	-	8 7 1 22 8 7 1 22 8 7 1 22
	21 9 20 58 20 47	18 32 4 17 40 3	33 12 37 58 12 15 12 11 54	2 7 2 21	16 32 16 32 16 9	1 34 1 34 1 33	15 19 15 32	1 16 1 15	22 17 22 18 22 19	0 30 0 30	10 47 10 47 10 48 10 49	2 27 2 27	20 20 20 21 20 21	0 10 0 10	11 28 11 27 11 27	0 50 0 50 0 50	23 53 1 4 23 53 1 4	60 6 33 60 6 36	5 58 6 0	13 8	8 7 1 22 8 7 1 22 8 7 1 22 8 7 1 22
M13 T 14 W15 T 16 F 17 S 18	20 36 20 24 20 12 20 0 19 47 19 34	13 44 2 10 52 1 7 34 0 3 57 0n 0 9 1	18 11 34 19 11 17 16 11 0 49 10 46	2 47 2 59 3 12 3 24 3 36	15 20 14 55 14 30 14 5 13 39	1 33 1 32 1 32 1 31	15 55 16 7 16 19 16 30 16 41	1 14 1 14 1 13 1 12 1 12	22 21 22 22 22 23 22 25 22 26 22 27	0 30 0 30 0 31 0 31 0 31	10 50 10 50 10 51 10 52	2 27 2 28 2 28 2 28 2 28 2 28		0 10 0 10 0 10 0 10 0 10 0 10	11 26 11 25	0 50 0 50 0 50 0 50 0 50 0 50	23 52 1 4 23 52 1 4 23 52 1 4 23 52 1 4	60 6 41 60 6 42 60 6 42 60 6 42 60 6 42	6 2 6 3 6 5 6 6 6 7 6 8	13 4 13 3 13 2 13 0 12 59	8 7 1 22 8 7 1 22
S 19 M20 T 21 W22 T 23 F 24 S 25	19 21 19 7 18 53 18 39 18 24 18 9 17 54	11 2 4 14 8 4 16 36 5 18 9 5	56 10 7	4 9 4 18 4 27 4 34 4 40	12 46 12 19 11 52 11 24 10 56 10 28 10 0	1 27 1 26 1 25 1 24	17 45 17 56	1 10 1 9 1 8 1 8 1 7	22 28 22 30 22 31 22 32 22 33 22 34 22 35	0 31 0 31 0 32		2 29 2 29 2 30 2 30 2 30	20 25 20 25 20 25 20 26 20 26 20 26 20 27	0 9 0 9 0 9 0 9 0 9	11 22 11 21 11 20 11 19 11 19 11 18 11 17	0 50 0 50 0 50 0 50 0 50 0 50 0 50	23 51 1 4 23 51 1 4 23 51 1 4 23 51 1 4 23 51 1 4	40 6 41 40 6 41 40 6 43 41 6 44 41 6 46	6 13 6 14 6 16	12 0,	8 7 1 22 8 7 1 22 8 7 1 22 8 6 1 22 8 6 1 22 8 6 1 22 8 6 1 22
S 26 M27 T 28 W29 T 30 F 31	17 38 17 22 17 6 16 50 16 33 16n16	12 28 1 8 27 0 3 57 0s 0n40 2	4 10 31 50 10 44 30 10 59 52 11 16 8 11 35	4 48 4 48 4 45 4 41	9 31 9 2 8 33 8 4 7 34 7n 4	1 17 1 15	18 25 18 34 18 44 18 53	1 5 1 4 1 3 1 2	22 36 22 37 22 38 22 39 22 40 22 s41	0 32 0 32 0 32	10 56 10 56 10 57 10 57 10 57 10n57	2 31 2 31 2 31 2 32	20 27 20 28 20 28 20 28 20 29 20n29	0 9 0 9 0 9 0 9	11 16 11 16 11 15 11 14 11 13 11n13	0 50 0 50 0 50 0 50 0 50 0 50 0n50	23 50 1 4 23 50 1 4 23 50 1 4	6 50 6 6 51 6 51 6 51 6 50	6 19 6 21 6 22 6 23	12 47 12 46 12 45 12 43 12 42 12n41	8 5 1 22 8 5 1 22 8 5 1 22 8 5 1 22 8 4 1 22 8n 4 1n22

Julian Day Number = 2246833.5, Delta T = 06m48s

Ecliptic obliquity = $23^{\circ}30'34$, Nutation = - $0^{\circ}00'04$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°55′15, Lahiri = 16°02′15 Julian Calendar 1 July 1439 == Greg. Calendar 10 July 1439

AUGUST 1439 JC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)મ(¥	Р	n	v	Ç	Ŗ	Day
S 1	21 10 43	16 Ω 20'28	4826	14°R28	16Mp 5	29849	18°R54	5 8 21	2 II 5	3 Mp 1	1995 0	12 Mp 40	13 m 43	20259	17°R16	S 1
S 2	21 14 40	17°18'10	17°45	13 Ω 40	17°18	0П26	18 궁 48	5°22	2° 7	3° 3	19° 2	12°R41	13°40	21° 6	17 Y 15	S 2
M 3	21 18 36	18°15'55	0 Ⅱ 41	12°55	18°30	1° 3	18°42	5°23	2° 8	3° 5	19° 3	12°40	13°36	21°12	17°14	M 3
T 4	21 22 33	19°13'41	13°18	12°14	19°43	1°40	18°36	5°24	2°10	3° 8	19° 4	12°38	13°33	21°19	17°13	T 4
W 5	21 26 29	20°11'29	25°40	11°38	20°55	2°17	18°31	5°24	2°11	3°10	19° 6	12°36	13°30	21°26	17°12	W 5
T 6	21 30 26	21° 9'19	7950	11° 7	22° 8	2°54	18°25	5°25	2°12	3°12	19° 7	12°33	13°27	21°32	17°10	T 6
F 7	21 34 22	22° 7'10	19°51	10°42	23°20	3°30	18°20	5°25	2°13	3°14	19° 9	12°29	13°24	21°39	17° 9	F 7
S 8	21 38 19	23° 5'03	1 Ω 44	10°25	24°33	4° 6	18°15	5°25	2°14	3°16	19°10	12°26	13°20	21°46	17° 8	S 8
S 9	21 42 16	24° 2'58	13°34	10°15	25°45	4°43	18°10	5°25	2°16	3°19	19°11	12°24	13°17	21°52	17° 6	S 9
M10	21 46 12	25° 0'54	25°22	10°D12	26°57	5°19	18° 5	5°R25	2°17	3°21	19°13	12°22	13°14	21°59	17° 5	M10
T 11	21 50 9	25°58'52	7 m) 10	10°18	28°10	5°54	18° 0	5°25	2°18	3°23	19°14	12°D21	13°11	22° 6	17° 3	T 11
W12 T 13	21 54 5 21 58 2	26°56'51 27°54'51	19° 0 0 2 55	10°31 10°53	29°22 0 ≙ 34	6°30 7° 5	17°56 17°51	5°25 5°25	2°19 2°20	3°25 3°27	19°16 19°17	12°21 12°22	13° 8 13° 5	22°12 22°19	17° 2 17° 0	W12 T 13
F 14	21 38 2	27 34 31 28°52'54	12°58	10°33	1°46	7°41	17°47	5°24	2°20	3°30	19 17 19°18	12°23	13° 1	22°26	16°59	F 14
S 15	22 5 55	29°50'57	25°12	12° 1	2°58	8°16	17°43	5°24	2°21	3°32	19°20	12°24	12°58	22°32	16°57	S 15
S 16	22 9 51	0 m 49'02	7 M -40	12°47	4°11	8°50	17°39	5°23	2°22	3°34	19°21	12°25	12°55	22°39	16°55	S 16
M17	22 13 48	1°47'09	20°26	13°41	5°23	9°25	17°36	5°22	2°23	3°36	19°22	12°26	12°52	22°46	16°53	M17
T 18	22 17 44	2°45'17	3 ₹ 33	14°42	6°35	9°59	17°32	5°21	2°23	3°39	19°23	12°R26	12°49	22°52	16°51	T 18
W19	22 21 41	3°43'27	17° 5	15°49	7°47	10°34	17°29	5°20	2°24	3°41	19°25	12°26	12°45	22°59	16°50	W19
T 20	22 25 38	4°41'38	1ਰ 1	17° 3	8°59	11° 8	17°26	5°19	2°24	3°43	19°26	12°25	12°42	23° 6	16°48	T 20
F 21	22 29 34	5°39'50	15°23	18°23	10°11	11°41	17°23	5°18	2°25	3°45	19°27	12°25	12°39	23°12	16°46	F 21
S 22	22 33 31	6°38'04	0≈ 6	19°48	11°23	12°15	17°20	5°17	2°25	3°47	19°28	12°24	12°36	23°19	16°44	S 22
S 23	22 37 27	7°36'20	15° 7	21°19	12°34	12°48	17°18	5°16	2°26	3°50	19°29	12°23	12°33	23°26	16°42	S 23
M24	22 41 24	8°34'37	0) 16	22°53	13°46	13°21	17°15	5°14	2°26	3°52	19°31	12°23	12°30	23°32	16°40	M24
T 25	22 45 20	9°32'56	15°25	24°31	14°58	13°54	17°13	5°12	2°27	3°54	19°32	12°D23	12°26	23°39	16°38	T 25
W26	22 49 17	10°31'17	0 Υ 25	26°13	16°10	14°27	17°11	5°11	2°27	3°56	19°33	12°23	12°23	23°45	16°35	W26
T 27	22 53 13	11°29'40	15° 7	27°57	17°21	14°59	17° 9	5° 9 5° 7	2°27	3°59	19°34	12°23	12°20	23°52	16°33	T 27
F 28 S 29	22 57 10 23 1 7	12°28'05 13°26'32	29°26 13 8 19	29°44 1 m) 33	18°33 19°45	15°31 16° 3	17° 8 17° 6	5° / 5° 5	2°27 2°27	4° 1 4° 3	19°35 19°36	12°R23 12°23	12°17 12°14	23°59 24° 5	16°31 16°29	F 28 S 29
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S 30 M31	23 5 3 23 9 0	14°25'01 15 m 23'33	26°44 9 ∏ 45	3°22 5 m) 13	20°56 22 Ω 8	16°35 17 II 7	17° 5 17 る 4	5° 3 5 8 1	2°R27 2 Ⅱ 27	4° 5 4 m) 7	19°37 19 © 38	12°23 12°D23	12°11 12 m) 7	24°12 24 Ω 19	16°26 16 Y 24	S 30 M31
IVIST	23 9 0	131112333	9Д43	د ا پارد	22 == 8	1/4 /	1/0 4	3 0 1	2112/	4-11y /	19=938	12 D23	/ إباا∠1	240 6 19	10 1 24	IVI3 I

Day	0	J)	ζ	5	ς	2	d	7	2	+	ħ	l)į	(4	(Р		n	Ω	Ç	, K
	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	15n59	9n 9	4s 8	12n17	4 s27	6n34	1n10	19n11	1 s 1	22 s42	$0\mathrm{s}32$	10n57	2 s32	20n29	0s 9	11n12	0n50	23n50	1n41	6n49	6n25	12n39	8n 3 1n22
S 2 M 3	15 42 15 24	12 36 15 20	4 46 5 8	12 40 13 4	4 17 4 6	6 4 5 34	1 8 1 6			22 43 22 44		10 57 10 57		20 29 20 30				23 50 23 50	1 41 1 41	6 49 6 49		12 38 12 37	8 3 1 22 8 3 1 22
T 4	15 24		5 15	-	3 53	5 4	1 4			22 45		10 57		20 30				23 49	1 42	6 50		12 37	8 2 1 22
W 5	14 48		5 7	13 51	3 38	4 33	1 2			22 46		10 57		20 30		-		23 49	1 42	6 51		12 34	8 2 1 22
T 6		18 32	4 45		3 23	4 2	0 59			22 47		10 57		20 30				23 49	1 42	6 52		12 33	8 1 1 22
F 7		17 54 16 29	4 11 3 26	14 37 14 58	3 6 2 49	3 32 3 1	0 57 0 55			22 48 22 48		10 57 10 57		20 31 20 31		11 7 11 6		23 49 23 49	1 42 1 42	6 54		12 31 12 30	8 1 1 22 8 0 1 22
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S 9 M10		14 22 11 39	2 33 1 33	15 18 15 36	2 31 2 13	2 30 1 59	0 52 0 50	20 16 20 23		22 49 22 50	0 33	10 57 10 56		20 31 20 31				23 49 23 49	1 42 1 42	6 56 6 56		12 29 12 27	8 0 1 22 7 59 1 22
T 11	12 54	8 28	0 29	15 52	1 55	1 28		20 23		22 50		10 56		20 31				23 49	1 42	6 57		12 26	7 58 1 22
W12	12 34	4 56	0n37	16 6	1 37	0 56	0 45	20 37	0 51	22 51	0 33	10 56	2 35	20 32	0 9	11 3	0 50	23 48	1 42	6 57	6 39	12 24	7 58 1 22
T 13	12 14	1 11	1 41	16 17	1 19	0 25	0 42			22 52		10 55		20 32				23 48	1 42	6 56		12 23	7 57 1 22
F 14 S 15	11 54 11 33	2 s 3 9 6 2 6	2 42 3 36	16 26 16 32	1 1 0 44	0s 6 0 37	0 40			22 52 22 53		10 55 10 55		20 32		11 2 11 1		23 48 23 48	1 42 1 42	6 56		12 22	7 57 1 22 7 56 1 21
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S 16 M17	11 13	9 59 13 10	4 21 4 55	16 35 16 35	0 27 0 12	1 9 1 40	0 34	21 4 21 10		22 53 22 54		10 54 10 54		20 32 20 33		11 0 10 59		23 48 23 48	1 43 1 43	6 55 6 55	-	12 19 12 18	7 55 1 21 7 54 1 21
T 18		15 47	5 14		0 12 0n 4	2 11		21 16		22 54		10 54		20 33				23 48	1 43	6 55	-	12 16	7 54 1 21
W19		17 38	5 17	16 25	0 18	2 42		21 22		22 55		10 53		20 33				23 48	1 43	6 55	-	12 15	7 53 1 21
T 20		18 29	5 1	16 16	0 31	3 14		21 28		22 55		10 52		20 33				23 48	1 43	6 55		12 13	7 52 1 21
F 21		18 12	4 27	16 3	0 43	3 45		21 34		22 56		10 51		20 33				23 48	1 43	6 55		12 12	7 51 1 21
S 22		16 42	3 34		0 54	4 16		21 39		22 56		10 51		20 33				23 48	1 43	6 56		12 11	7 51 1 21
S 23 M24	8 44		2 26		1 4	4 47		21 45		22 57		10 50 10 49		20 33				23 48 23 47	1 43	6 56		-	7 50 1 21
T 25	8 23	10 22	1 7 0s17	15 5 14 40	1 13 1 21	5 18 5 49	0 10 0 7			22 57 22 57		10 49		20 33 20 33				23 47	1 43 1 43	6 56 6 56	6 54 6 55	12 8 12 7	7 49 1 21 7 48 1 21
W26	7 39	1 20	1 39	14 12	1 28	6 19	0 3			22 58		10 48		20 33				23 47	1 44	6 56			7 47 1 21
T 27	7 16	3n19	2 52	13 41	1 34	6 50	0 0	22 5	0 35	22 58		10 47	2 39	20 33	0 9	10 51		23 47	1 44	6 56		12 4	7 46 1 21
F 28	6 54		3 53	13 9	1 39	7 20	0s 3			22 58		10 46		20 33				23 47	1 44	6 56		12 2	7 46 1 21
S 29	6 32	11 27	4 38	12 34	1 43	7 51	0 7	22 14	0 32	22 58	0 34	10 45	2 39	20 33	0 9	10 50	0 50	23 47	1 44	6 56	7 0	12 1	7 45 1 21
S 30	-	14 31	5 6		1 46	8 21	0 10	-		22 58		10 45		20 34				23 47	1 44	6 56			7 44 1 21
M31	5n46	16n44	5 s 1 8	11n18	1n48	8 s 5 1	0s13	22n23	0 s 3 0	22 s 5 9	0 s34	10n44	2 s 3 9	20n34	0s 9	10n48	0n50	23n47	1n44	6n56	7n 2	11n58	7n43 1n21

Julian Day Number = 2246864.5, Delta T = 06m48s

Ecliptic obliquity = $23^{\circ}30'35$, Nutation = - $0^{\circ}00'04$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°55'19, Lahiri = 16°02'20 Julian Calendar 1 Aug. 1439 == Greg. Calendar 10 Aug. 1439

SEPTEMBER 1439 JC 00:00 UT

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Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)∤(¥	В	n	v	Ç	Š,	Day
T 1	23 12 56	16 mg 22'07	22 II 22	7 m) 5	23 ₾ 19	17 II 38	17°R 3	4°R59	2°R27	4 Mp 10	19939	12 m 23	12 mg 4	24 \O 25	16°R22	T 1
W 2	23 16 53	17°20'43	49542	8°57	24°31	18° 9	17る 2	4 8 56	2 Ⅱ 27	4°12	19°40	12°23	12° 1	24°32	16 Y 19	W 2
T 3	23 20 49	18°19'21	16°47	10°49	25°42	18°39	17° 2	4°54	2°27	4°14	19°41	12°24	11°58	24°39	16°17	T 3
F 4	23 24 46	19°18'01	28°42	12°41	26°53	19°10	17° 2	4°51	2°27	4°16	19°42	12°24	11°55	24°45	16°15	F 4
S 5	23 28 42	20°16'44	10 N 32	14°33	28° 5	19°40	17°D 2	4°49	2°26	4°18	19°43	12°25	11°51	24°52	16°12	S 5
S 6	23 32 39	21°15'29	22°19	16°25	29°16	20° 9	17° 2	4°46	2°26	4°20	19°44	12°26	11°48	24°59	16°10	S 6
M 7	23 36 36	22°14'16	4MD 8	18°16	0 M 27	20°39	17° 2	4°43	2°26	4°23	19°45	12°26	11°45	25° 5	16° 7	M 7
T 8	23 40 32	23°13'04	16° 0	20° 6	1°38	21° 8	17° 3	4°40	2°25	4°25	19°46	12°R27	11°42	25°12	16° 4	T 8
W 9	23 44 29	24°11'55	27°57	21°56	2°50	21°37	17° 3	4°37	2°25	4°27	19°46	12°26	11°39	25°19	16° 2	W 9
T 10	23 48 25	25°10'48	10 ♀ 3	23°45	4° 1	22° 6	17° 4	4°34	2°24	4°29	19°47	12°25	11°36	25°25	15°59	T 10
F 11	23 52 22	26° 9'43	22°19	25°33	5°12	22°34	17° 5	4°31	2°24	4°31	19°48	12°23	11°32	25°32	15°57	F 11
S 12	23 56 18	27° 8'40	4 M .45	27°21	6°23	23° 2	17° 7	4°27	2°23	4°33	19°49	12°21	11°29	25°39	15°54	S 12
S 13	0 0 15	28° 7'39	17°25	29° 7	7°34	23°29	17° 8	4°24	2°23	4°35	19°50	12°19	11°26	25°45	15°51	S 13
M14	0 411	29° 6'39	0 √ 19	0 ჲ 53	8°44	23°56	17°10	4°21	2°22	4°37	19°50	12°17	11°23	25°52	15°48	M14
T 15	0 8 8	0 ♀ 5'42	13°29	2°38	9°55	24°23	17°12	4°17	2°21	4°39	19°51	12°15	11°20	25°58	15°46	T 15
W16	0 12 4	1° 4'46	26°57	4°22	11° 6	24°50	17°14	4°14	2°20	4°41	19°52	12°D15	11°16	26° 5	15°43	W16
T 17	0 16 1	2° 3'52	10 ට 45	6° 5	12°17	25°16	17°16	4°10	2°19	4°43	19°52	12°15	11°13	26°12	15°40	T 17
F 18	0 19 58	3° 3'00	24°51	7°47	13°27	25°42	17°19	4° 6	2°18	4°45	19°53	12°16	11°10	26°18	15°37	F 18
S 19	0 23 54	4° 2'10	9≈16	9°29	14°38	26° 7	17°21	4° 2	2°18	4°47	19°54	12°17	11° 7	26°25	15°35	S 19
S 20	0 27 51	5° 1'21	23°56	11° 9	15°48	26°32	17°24	3°59	2°17	4°49	19°54	12°18	11° 4	26°32	15°32	S 20
M21	0 31 47	6° 0'34	8) (46	12°49	16°59	26°57	17°27	3°55	2°15	4°51	19°55	12°R19	11° 1	26°38	15°29	M21
T 22	0 35 44	6°59'49	23°40	14°28	18° 9	27°21	17°30	3°51	2°14	4°53	19°55	12°19	10°57	26°45	15°26	T 22
W23	0 39 40	7°59'06	8 Y 31	16° 7	19°19	27°45	17°34	3°47	2°13	4°55	19°56	12°17	10°54	26°52	15°23	W23
T 24	0 43 37	8°58'25	23°10	17°44	20°30	28° 8	17°37	3°42	2°12	4°57	19°56	12°14	10°51	26°58	15°21	T 24
F 25	0 47 33	9°57'46	7 8 31	19°21	21°40	28°32	17°41	3°38	2°11	4°59	19°57	12°10	10°48	27° 5	15°18	F 25
S 26	0 51 30	10°57'10	21°29	20°57	22°50	28°54	17°45	3°34	2° 9	5° 1	19°57	12° 6	10°45	27°12	15°15	S 26
S 27	0 55 27	11°56'36	5 I I 0	22°33	24° 0	29°16	17°49	3°30	2° 8	5° 3	19°58	12° 2	10°42	27°18	15°12	S 27
M28	0 59 23	12°56'04	18° 6	24° 7	25°10	29°38	17°53	3°25	2° 7	5° 5	19°58	11°58	10°38	27°25	15° 9	M28
T 29	1 3 20	13°55'34	0947	25°41	26°19	29°59	17°58	3°21	2° 5	5° 7	19°58	11°56	10°35	27°32	15° 6	T 29
W30	1 7 16	14 ♀ 55'07	1395 8	27 ♀ 15	27 M 29	0920	18 る 2	3 8 16	2 I I 4	5 m) 8	199559	11°D55	10 m 32	$27\Omega 38$	15 ° 3	W30

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T 1 W 2	5n24 5 1	18n 5 5s1 18 31 4 5	3 10n38		9 s 2 1 9 5 0	0s17 0 20			22 s59 22 59	0 s34 0 34			20n33 20 33		10n47 10 46	0n50 0 50	23n47 23 47	1n44 1 44	6n56 6 56	7n 3	11n57 11 55	7n42 7 41	1n21 1 21
T 3	4 38	18 6 4 2			10 20	0 24			22 59	0 34	-		20 33			0 50		1 44	6 56	7 6		7 40	1 21
F 4	4 15	16 53 3 4		1 49	10 49		22 39		22 59	0 34		2 40				0 50		1 44	6 56	7 7	11 52	7 39	1 21
S 5	3 52	14 57 2 4	8 7 45	1 47	11 18	0 31	22 43	0 24	22 59	0 34	10 39	2 41	20 33	0 9	10 44	0 50	23 47	1 45	6 55	7 8	11 51	7 38	1 21
S 6	3 29	12 23 1 4		-	11 47		22 46		22 59	0 34			20 33		10 .5	0 50		1 45	6 55		11 50	7 37	1 21
M 7 T 8	3 5 2 42	9 19 0 4 5 51 0n2			12 15 12 44		22 50 22 53		22 59 22 59	0 34 0 34		2 41 2 41				0 50 0 50		1 45 1 45	6 55 6 55		11 48 11 47	7 36 7 35	1 21 1 21
W 9	2 19	2 7 1 2			13 12	0 45			22 59		10 33		20 33			0 50		1 45	6 55		11 45	7 34	1 21
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F 11	1 32		3 7	/	14 7	0 52			22 59		10 32		20 33		10 40	0 50		1 45	6 56		11 42	7 32	1 21
S 12	1 8	9 12 4 1			14 34	0 56			22 58		10 30		20 33		10 39		23 47	1 45	6 57		11 41	7 31	1 20
S 13 M14	0 45	-	7 1 32 9 0 45	_	15 1 15 27	0 59 2	23 9 23 12		22 58 22 58	0 34		2 42 2 42	20 33 20 32		10 38 10 37	0 50		1 45 1 46	6 58 6 58	7 18 7 19	11 40 11 38	7 30 7 28	1 20 1 20
T 15	0 s 2		6 0s 2		15 53		23 14		22 58	0 34			20 32			0 50		1 46	6 59	7 20		7 27	1 20
W16	0 26	18 23 5	6 0 48	1 1	16 19	1 10	23 17	0 8	22 58	0 34	10 25	2 42	20 32	0 9	10 36	0 50	23 47	1 46	6 59	7 21	11 35	7 26	1 20
T 17	0 49	18 27 4 3			16 44		23 19			0 34			20 32			0 50		1 46	6 59		11 34	7 25	1 20
F 18 S 19	-	17 24 3 5 15 13 2 5	3 2 21 2 3 7		17 9 17 34	1 17 2			22 57 22 57	0 34	10 22 10 21		20 32 20 32		10 34 10 34	0 50	23 47 23 47	1 46 1 46	6 59 6 58		11 32 11 31	7 24 7 23	1 20 1 20
S 20	2 0	12 1 1 4			17 58		23 27	0 1	22 56		10 19		20 31		10 33		23 47				11 30	7 22	1 20
M21	2 24	8 0 0 2			18 22		23 27		22 56	0 34			20 31		10 33	0 50		1 46 1 46	6 58 6 58		11 28	7 21	1 20
T 22	2 47	3 28 1s	2 5 22	0 23	18 45		23 31		22 56	0 34	10 17		20 31		10 32	0 50	23 47	1 46	6 58	7 29		7 19	1 20
W23	3 11	1n15 2 1			19 8		23 33		22 55	0 34			20 31	0 9		0 50		1 46	6 58	7 30	_	7 18	1 20
T 24 F 25	3 34 3 57	5 50 3 2 9 59 4 1			19 30 19 52		23 35 23 37		22 55 22 54	0 34 0 34			20 31 20 30		10 30 10 30	0 50 0 50		1 47 1 47	6 59 7 1	7 31 7 32		7 17 7 16	1 20 1 20
S 26	4 21	13 27 4 5			20 14	1 45			22 54		10 12		20 30			0 50		1 47	7 3		11 21	7 15	1 20
S 27	4 44	16 6 5 1	1 8 58	0 11	20 35	1 49	23 41	0 11	22 53	0 34	10 9	2 44	20 30	0 9	10 28	0 50	23 47	1 47	7 4	7 35	11 19	7 13	1 19
M28	5 7	17 48 5 1		-	20 55	1 52			22 53	0 34		2 44				0 51	23 47	1 47	7 5	7 36	-	7 12	1 19
T 29		18 34 4 5			21 15	1 55	-		22 52	0 34			20 29		10 27	0 51		1 47	7 6		11 16	7 11	1 19
W30	5 s54	18n24 4s2	8 11s 1	0s32	21 s35	1 s58	23n47	0n16	22 s51	0 s34	10n 4	2 s44	20n29	0s 9	10n26	0n51	23n47	1n47	7n 7	7n38	11n15	7n10	1n19

Julian Day Number = 2246895.5, Delta T = 06m48s

Ecliptic obliquity = 23°30'35, Nutation = -0°00'05, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 16°55'23, Lahiri = 16°02'24 Julian Calendar 1 Sept. 1439 == Greg. Calendar 10 Sept. 1439

OCTOBER 1439 JC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ)f(¥	В	S.	v	Ç	ķ	Day
T 1	1 11 13	15 ≏ 54'42	25914	28 <u>₽</u> 48	28MJ39	09540	18궁 7	3°R12	2°R 2	5 m 10	199559	11 m 56	10 m 29	27 Ω 45	15°R 1	T 1
F 2	1 15 9	16°54'19	7 Ω 8	0 M 20	29°48	1° 0	18°12	3 8 7	2 I 1	5°12	19°59	11°57	10°26	27°52	14 Y 58	F 2
S 3	1 19 6	17°53'59	18°56	1°51	0 ≯ 58	1°20	18°17	3° 3	1°59	5°14	20° 0	11°59	10°22	27°58	14°55	S 3
S 4	1 23 2	18°53'41	0 m 43	3°22	2° 7	1°38	18°23	2°58	1°58	5°16	20° 0	12° 0	10°19	28° 5	14°52	S 4
M 5	1 26 59	19°53'25	12°34	4°52	3°17	1°57	18°28	2°54	1°56	5°17	20° 0	12°R 1	10°16	28°11	14°49	M 5
T 6	1 30 56	20°53'11	24°32	6°22	4°26	2°14	18°34	2°49	1°54	5°19	20° 0	12° 0	10°13	28°18	14°46	T 6
W 7	1 34 52	21°53'00	6 ₽ 39	7°51	5°35	2°31	18°40	2°44	1°53	5°21	20° 0	11°57	10°10	28°25	14°43	W 7
T 8	1 38 49	22°52'50	18°59	9°20	6°44	2°48	18°46	2°39	1°51	5°22	20° 0	11°52	10° 7	28°31	14°40	T 8
F 9	1 42 45	23°52'42	1 M 31	10°47	7°53	3° 4	18°52	2°35	1°49	5°24	20° 1	11°46	10° 3	28°38	14°38	F 9
S 10	1 46 42	24°52'37	14°17	12°14	9° 2	3°20	18°58	2°30	1°47	5°25	20° 1	11°38	10° 0	28°45	14°35	S 10
S 11	1 50 38	25°52'33	27°17	13°41	10°10	3°34	19° 5	2°25	1°45	5°27	20° 1	11°30	9°57	28°51	14°32	S 11
M12	1 54 35	26°52'31	10 × 29	15° 7	11°19	3°49	19°12	2°20	1°43	5°29	20° 1	11°23	9°54	28°58	14°29	M12
T 13	1 58 31	27°52'31	23°54	16°32	12°27	4° 2	19°19	2°15	1°41	5°30	20°R 1	11°17	9°51	29° 5	14°26	T 13
W14	2 2 28	28°52'33	7 云 30	17°56	13°36	4°15	19°25	2°11	1°39	5°32	20° 1	11°12	9°48	29°11	14°24	W14
T 15	2 6 25	29°52'36	21°17	19°20	14°44	4°28	19°33	2° 6	1°37	5°33	20° 1	11°10	9°44	29°18	14°21	T 15
F 16	2 10 21	0ML52'41	5≈15	20°42	15°52	4°39	19°40	2° 1	1°35	5°35	20° 1	11°D10	9°41	29°25	14°18	F 16
S 17	2 14 18	1°52'47	19°23	22° 4	17° 0	4°50	19°47	1°56	1°33	5°36	20° 1	11°11	9°38	29°31	14°15	S 17
S 18	2 18 14	2°52'55	3) (41	23°25	18° 8	5° 1	19°55	1°51	1°31	5°37	20° 0	11°R12	9°35	29°38	14°13	S 18
M19	2 22 11	3°53'04	18° 6	24°44	19°15	5°11	20° 3	1°46	1°29	5°39	20° 0	11°12	9°32	29°44	14°10	M19
T 20	2 26 7	4°53'15	2 Υ 35	26° 3	20°23	5°20	20°11	1°41	1°27	5°40	20° 0	11°10	9°28	29°51	14° 7	T 20
W21	2 30 4	5°53'28	17° 3	27°20	21°30	5°28	20°19	1°37	1°25	5°41	20° 0	11° 6	9°25	29°58	14° 5	W21
T 22	2 34 0	6°53'42	1824	28°36	22°37	5°35	20°27	1°32	1°22	5°43	20° 0	10°59	9°22	0Mp 4	14° 2	T 22
F 23	2 37 57	7°53'58	15°33	29°50	23°44	5°42	20°35	1°27	1°20	5°44	19°59	10°50	9°19	0°11	14° 0	F 23
S 24	2 41 53	8°54'16	29°24	1 ₹ 2	24°51	5°48	20°44	1°22	1°18	5°45	19°59	10°40	9°16	0°18	13°57	S 24
S 25	2 45 50	9°54'36	12 П 53	2°13	25°58	5°54	20°52	1°17	1°16	5°46	19°59	10°30	9°13	0°24	13°55	S 25
M26	2 49 47	10°54'58	25°59	3°21	27° 4	5°58	21° 1	1°13	1°13	5°48	19°59	10°21	9° 9	0°31	13°52	M26
T 27	2 53 43	11°55'21	89542	4°27	28°10	6° 2	21°10	1°8	1°11	5°49	19°58	10°13	9° 6	0°38	13°50	T 27
W28	2 57 40	12°55'47	21° 5	5°30	29°16	6° 5	21°19	1° 3	1° 9	5°50	19°58	10° 9	9° 3	0°44	13°47	W28
T 29	3 1 36	13°56'14	3 Ω 12	6°29	0 궁 22	6° 7	21°28	0°58	1° 6	5°51	19°57	10° 6	9° 0	0°51	13°45	T 29
F 30	3 5 3 3	14°56'43	15° 6	7°26	<u>1°28</u>	6° 9	2 <u>1</u> °37	0°54	1° 4	5°52	19°57	10°D 5	8°57	0°58	13°42	F 30
S 31	3 9 29	15 M 57'14	$26\Omega 55$	8 7 18	2 ප 33	6°R 9	21 궁 46	0 8 49	1 I 1	5 m 53	19957	10 m) 6	8 m 53	1 Mp 4	13 Y 40	S 31

Day	0	D	ğ	·	♂	4	ħ)∤(¥	Р	n	Ω	ţ	Š
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl	decl	decl lat
T 1 F 2 S 3	6s17 6 40 7 3	15 39 2 59	12 20 0 4		23 50 0 20	22 s51 0 s34 22 50 0 34 22 49 0 34	10 1 2 44	20 28 0 9	10 25 0 51	23n47 1n47 23 47 1 48 23 47 1 48	7n 7 7 6 7 5	7n40 1 7 41 1 7 42 1	1 12	7n 9 1n19 7 8 1 19 7 6 1 19
S 4 M 5 T 6 W 7 T 8	7 25 7 48 8 11 8 33 8 55	6 55 On 3 3 13 1 8 0 s 40 2 10 4 34 3 7	14 13 1 14 49 1 1 15 24 1 1 15 59 1 2	5 23 4 2 14 12 23 20 2 17 18 23 35 2 20 25 23 50 2 23	23 56 0 26 23 57 0 28 23 59 0 30 24 1 0 32	22 49 0 34 22 48 0 34 22 47 0 34 22 46 0 34 22 45 0 34	9 56 2 44 9 55 2 44 9 53 2 44 9 51 2 44	20 27 0 9 20 27 0 9 20 27 0 9 20 27 0 9 20 26 0 9	10 24 0 51 10 23 0 51 10 23 0 51 10 22 0 51 10 21 0 51	23 48 1 48 23 48 1 48 23 48 1 48 23 48 1 48	7 5 7 5 7 5 7 6 7 8	7 47 1 7 48 1	1 7 1 6 1 5 1 3	7 5 1 19 7 4 1 19 7 3 1 19 7 2 1 19 7 0 1 19
F 9 S 10 S 11	9 18 9 40 10 2	11 48 4 34	17 6 1 3	37 <mark>24 18</mark> 2 28	24 5 0 36	22 45 0 34 22 44 0 34 22 43 0 34	9 48 2 45	20 26 0 9	10 21 0 51 10 20 0 51 10 20 0 51	23 48 1 48	7 10 7 13 7 16	7 49 1 7 50 1 7 52 1	1 0	6 59 1 18 6 58 1 18 6 57 1 18
M12 T 13 W14 T 15 F 16 S 17	10 23 10 45 11 6 11 28 11 49 12 10	17 0 5 8 18 21 5 1 18 41 4 37 17 56 3 56 16 5 3 1	18 9 1 4 18 39 1 5 19 9 2 19 37 2 20 4 2 1	49 24 44 2 33 54 24 56 2 36 0 25 7 2 38 5 25 17 2 40	24 8 0 41 24 10 0 43 24 12 0 45 24 14 0 48 24 16 0 50		9 45 2 45 9 43 2 45 9 41 2 45 9 40 2 45 9 38 2 44	20 25 0 9 20 24 0 9 20 24 0 9 20 24 0 9 20 24 0 9 20 23 0 9	10 19 0 51 10 19 0 51 10 18 0 51 10 18 0 51 10 17 0 51	23 48 1 49 23 48 1 49 23 48 1 49 23 49 1 49	7 19 7 21 7 23 7 24 7 24 7 24	7 53 1 7 54 1 7 55 1 7 56 1	0 57 0 56 0 54 0 53 0 51	6 56 1 18 6 54 1 18 6 53 1 18 6 52 1 18 6 51 1 18 6 50 1 18
S 18 M19 T 20 W21 T 22 F 23 S 24	12 30 12 51 13 11 13 31 13 51 14 11 14 31	5 17 0s37 0 41 1 52 3n57 3 0 8 19 3 56	21 19 2 2 21 42 2 2 22 4 2 3 22 24 2 3 22 43 2 3	27 26 0 2 51 30 26 6 2 53 33 26 12 2 54	24 22 0 57 24 24 1 0 24 26 1 2 24 28 1 4 24 30 1 7	22 36 0 34 22 34 0 34 22 33 0 34 22 32 0 34 22 31 0 34 22 30 0 34 22 28 0 34		20 22 0 9 20 22 0 9 20 21 0 9 20 21 0 9 20 21 0 9 20 20 0 9	10 16 0 51 10 15 0 51 10 15 0 51 10 15 0 51 10 14 0 51 10 14 0 51	23 49 1 49 23 49 1 50 23 49 1 50 23 49 1 50	7 23 7 23 7 24 7 26 7 28 7 32 7 35	8 1 1 8 2 1 8 4 1 8 5 1 8 6 1	0 48 0 46 0 45 0 43 0 42 0 40 0 39	6 49 1 18 6 48 1 17 6 46 1 17 6 45 1 17 6 44 1 17 6 43 1 17 6 42 1 17
S 25 M26 T 27 W28 T 29 F 30 S 31	15 9 15 27 15 46 16 4 16 22	18 33 4 54 18 45 4 28 18 3 3 51 16 31 3 4 14 17 2 9	23 16 2 4 23 31 2 4 23 44 2 4 23 56 2 4 24 5 2 4 24 14 2 3 24 s20 2 s3	41 26 28 3 0 41 26 31 3 1 41 26 32 3 2 40 26 33 3 3	24 37 1 15 24 40 1 17 24 42 1 20 24 45 1 23 24 47 1 26	22 27 0 34 22 26 0 34 22 24 0 34 22 23 0 34 22 21 0 34 22 20 0 34 22 s19 0 s34	9 22 2 44 9 20 2 44 9 19 2 44 9 17 2 44 9 16 2 44	20 19 0 9 20 18 0 9 20 18 0 9 20 17 0 9 20 17 0 9	10 13 0 51 10 12 0 51 10 12 0 51 10 12 0 51 10 11 0 52 10 11 0 52	23 50 1 50 23 50 1 50 23 50 1 50 23 50 1 50 23 51 1 51 23 51 1 51 23 51 1 151	7 39 7 43 7 45 7 47 7 48 7 48 7n48	8 10 1 8 11 1	0 30	6 41 1 17 6 40 1 17 6 39 1 17 6 38 1 16 6 37 1 16 6 36 1 16 6n35 1n16

Julian Day Number = 2246925.5, Delta T = 06m47s

Ecliptic obliquity = $23^{\circ}30'35$, Nutation = $-0^{\circ}00'07$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°55'28, Lahiri = 16°02'28 Julian Calendar 1 Oct. 1439 == Greg. Calendar 10 Oct. 1439

NOVEMBER 1439 JC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)/j(¥	Р	u	ດ	Ç	, k	Day
S 1	3 13 26	16 M 57'47	8 Mp 43	9 √ 5	3 ろ 39	6°R 9	21 궁 56	0°R45	0°R59	5 m 54	19°R56	10°R 6	8 m /50	1 m p 1 1	13°R38	S 1
M 2	3 17 22	17°58'22	20°35	9°48	4°44	695 8	22° 6	0840	0Д56	5°55	199556	10MD 6	8°47	1°18	13 Y 36	M 2
T 3	3 21 19	18°58'58	2 ≏ 37	10°25	5°48	6° 6	22°15	0°36	0°54	5°56	19°55	10° 3	8°44	1°24	13°33	T 3
W 4	3 25 16	19°59'36	14°52	10°55	6°53	6° 3	22°25	0°31	0°52	5°57	19°55	9°58	8°41	1°31	13°31	W 4
T 5	3 29 12	21° 0'16	27°24	11°18	7°57	5°59	22°35	0°27	0°49	5°58	19°54	9°50	8°38	1°37	13°29	T 5
F 6	3 33 9	22° 0'57	10 M .13	11°33	9° 1	5°54	22°45	0°22	0°47	5°58	19°53	9°40	8°34	1°44	13°27	F 6
S 7	3 37 5	23° 1'40	23°21	11°R39	10° 5	5°49	22°56	0°18	0°44	5°59	19°53	9°28	8°31	1°51	13°25	S 7
S 8	3 41 2	24° 2'25	6 ₹ 45	11°36	11°8	5°43	23° 6	0°14	0°42	6° 0	19°52	9°15	8°28	1°57	13°23	S 8
M 9	3 44 58	25° 3'10	20°23	11°23	12°12	5°35	23°16	0°10	0°39	6° 1	19°52	9° 3	8°25	2° 4	13°21	M 9
T 10	3 48 55	26° 3'57	4 ਰ 11	10°59	13°15	5°27	23°27	0° 6	0°37	6° 1	19°51	8°52	8°22	2°11	13°19	T 10
W11	3 52 51	27° 4'45	18° 7	10°24	14°17	5°18	23°38	0° 1	0°34	6° 2	19°50	8°45	8°19	2°17	13°17	W11
T 12	3 56 48	28° 5'34	2≈ 8	9°39	15°19	5° 9	23°48	29 Y 57	0°31	6° 3	19°49	8°40	8°15	2°24	13°15	T 12
F 13	4 0 45	29° 6'24	16°11	8°43	16°21	4°58	23°59	29°54	0°29	6° 3	19°49	8°38	8°12	2°31	13°13	F 13
S 14	4 441	0 才 7'15	0 米 15	7°37	17°23	4°46	24°10	29°50	0°26	6° 4	19°48	8°37	8° 9	2°37	13°12	S 14
S 15	4 8 38	1° 8'07	14°20	6°24	18°24	4°34	24°21	29°46	0°24	6° 4	19°47	8°37	8° 6	2°44	13°10	S 15
M16	4 12 34	2° 8'59	28°25	5° 5	19°25	4°21	24°32	29°42	0°21	6° 5	19°46	8°36	8° 3	2°51	13° 8	M16
T 17	4 16 31	3° 9'52	12 Y 29	3°43	20°25	4° 7	24°44	29°39	0°19	6° 5	19°46	8°33	7°59	2°57	13° 7	T 17
W18	4 20 27	4°10'47	26°29	2°20	21°25	3°52	24°55	29°35	0°16	6° 6	19°45	8°27	7°56	3° 4	13° 5	W18
T 19	4 24 24	5°11'42	10823	1° 0	22°24	3°37	25° 7	29°32	0°14	6° 6	19°44	8°18	7°53	3°11	13° 4	T 19
F 20	4 28 20	6°12'38	24° 8	29 M 44	23°23	3°21	25°18	29°28	0°11	6° 7	19°43	8° 6	7°50	3°17	13° 2	F 20
S 21	4 32 17	7°13'34	7 Ⅱ 40	28°36	24°22	3° 4	25°30	29°25	0° 9	6° 7	19°42	7°53	7°47	3°24	13° 1	S 21
S 22	4 36 14	8°14'32	20°55	27°37	25°20	2°46	25°41	29°22	0° 6	6° 7	19°41	7°39	7°44	3°30	12°59	S 22
M23	4 40 10	9°15'31	3953	26°48	26°18	2°28	25°53	29°18	0° 4	6° 7	19°40	7°27	7°40	3°37	12°58	M23
T 24	4 44 7	10°16'31	16°31	26°10	27°15	2° 9	26° 5	29°15	0° 1	6° 8	19°39	7°17	7°37	3°44	12°57	T 24
W25	4 48 3	11°17'32	28°52	25°44	28°11	1°49	26°17	29°12	29 8 59	6°8	19°38	7° 9	7°34	3°50	12°56	W25
T 26	4 52 0	12°18'34	10 Ω 58	25°29	29° 7	1°29	26°29	29°10	29°56	6°8	19°37	7° 4	7°31	3°57	12°55	T 26
F 27	4 55 56	13°19'37	22°52	25°D24	0≈ 3	1° 8	26°41	29° 7	29°54	6° 8	19°36	7° 2	7°28	4° 4	12°53	F 27
S 28	4 59 53	14°20'41	4 m /41	25°29	0°57	0°47	26°54	29° 4	29°51	6° 8	19°35	7°D 1	7°25	4°10	12°52	S 28
S 29	5 3 50	15°21'46	16°28	25°44	1°51	0°25	27° 6	29° 1	29°49	6° 8	19°34	7°R 1	7°21	4°17	12°51	S 29
M30	5 7 46	16 × 22'51	28 m 21	26M 8	2≈45	099 3	27 る 18	28 Y 59	29 8 47	6°R 8	19933	7 m 1 1	7 m) 18	4 Mp 24	12 Y 51	M30

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S 1	16 s57	-		24 s24		26 s 32		24n53		22 s17	0 s34	9n13		20n16		10n10		23n51	1n51	7n48	8n17	10n27	6n34	1n16
M 2 T 3	17 14 17 31	4 36 0 45		24 26 24 26	2 29 2 23		3 5 3 5			22 15 22 14	0 34 0 34	9 11 9 10		20 15 20 15		10 10 10 10	0 52 0 52		1 51 1 51	7 48 7 49	8 18 8 19		6 33 6 32	1 16 1 16
W 4	17 47	3 s12		24 26	2 17		3 5			22 14	0 34	9 10	2 43		0 9		0 52		1 51	7 51	8 20	10 24	6 31	1 16
T 5	18 4	7 6		24 20	2 9		3 5		1 42		0 34	9 7	2 43	-			0 52		1 51	7 54	8 22	10 20	6 30	1 15
F 6	18 20	10 46	4 23	24 13	2 0	26 17	3 5	25 8	1 45	22 9	0 34	9 6	2 43	20 13	0 9	10 9	0 52	23 52	1 51	7 58	8 23	10 19	6 29	1 15
S 7	18 35	13 59	4 50	24 3	1 49	26 12	3 5	25 11	1 48	22 7	0 34	9 4	2 42	20 13	0 9	10 9	0 52	23 52	1 52	8 3	8 24	10 17	6 28	1 15
S 8	18 50	16 33	5 1	23 51	1 37	26 6	3 4	25 14	1 51	22 6	0 34	9 3	2 42	20 12	0 9	10 8	0 52	23 52	1 52	8 8	8 25	10 16	6 27	1 15
M 9		18 15		23 35	1 23		3 4		1 54		0 35	9 2		-		10 8	0 52		1 52	8 12	8 26	-	6 26	1 15
T 10		18 54		23 17	1 8		3 3	-		22 2	0 35	9 1		20 11		10 8	0 52		1 52	8 16			6 25	1 15
W11	19 34			22 56	0 52			25 24		22 0	0 35	8 59		20 11		10 8	0 52		1 52	8 19		-	6 24	1 15
T 12				22 31	0 34		3 1			21 58	0 35	8 58		20 10		10 0	0 52		1 52	8 21	8 30		6 23	1 15
F 13 S 14	20 1 20 14	14 11		22 4 21 33	0 15	25 28 25 19		25 3125 34		21 56 21 55	0 35	8 57 8 56	2 41	20 10 20 9		10 7 10 7	0 52	23 53 23 54	1 52 1 52	8 21 8 22			6 23 6 22	1 14 1 14
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S 15	20 27	6 39	0 s 3 0		0 26			25 37		21 53	0 35	8 55	2 41			10 7	0 52		1 52	8 22	8 33		6 21	1 14
M16	20 39	2 12	-			24 59		25 41		21 51	0 35	8 53	2 41	20 8		,	0 52		1 52	8 22	8 35		6 20	1 14
T 17 W18	20 51	2n21		19 52	1 6			25 44		21 49	0 35	8 52	2 41 2 40		0 9	,	0 52		1 53	8 23	8 36		6 20	1 14
	21 3 21 14	6 46		19 18 18 44	1 25	24 36 24 24		25 47 25 51		21 47 21 45	0 35	8 51 8 50	2 40			10 7 10 7	0 52 0 52		1 53 1 53	8 26 8 29	8 37 8 38	10 0 9 59	6 19 6 18	1 14 1 14
		14 9		18 13		24 24		25 54		21 43	0 35	8 49	2 40				0 52		1 53	8 33	8 39	9 57	6 17	1 13
	21 35			17 45		23 59		25 57		21 40	0 35	8 48	2 40			10 6		23 55	1 53	8 38	8 41	9 55	6 17	1 13
S 22	21 45	18 20	4 52	17 21	2 24	23 45	2 40	26 0	2 32	21 38	0 35	8 47	2 40	20 5	0 9	10 6	0.52	23 56	1 53	8 43	8 42	9 54	6 16	1 13
	21 54	-		17 1		23 31	2 37			21 36	0 35	8 47	2 39			10 6	0 52		1 53	8 48	8 43	9 52	6 15	1 13
T 24			3 54	16 46	2 40	23 17	2 33	26 7		21 34	0 35	8 46	2 39	20 4	0 9	10 6	0 53	23 56	1 53	8 52	8 44	9 51	6 15	1 13
W25		17 23			2 45		2 30			21 32	0 35	8 45	2 39	20 4	0 9	10 6	0 53		1 53	8 55	8 45	9 49	6 14	1 13
T 26	22 20	15 24	2 13	16 28	2 48	22 46	2 26	26 13	2 42	21 29	0 35	8 44	2 39	20 3	0 9	10 6	0 53	23 56	1 53	8 57	8 47	9 47	6 14	1 13
F 27	_	12 46		16 26		22 31		26 15		21 27	0 35	8 43	2 38				0 53		1 54	8 57	8 48	9 46	6 13	1 12
S 28	22 35	9 38	0 12	16 28	2 48	22 15	2 18	26 18	2 48	21 25	0 35	8 43	2 38	20 2	0 9	10 6	0 53	23 57	1 54	8 58	8 49	9 44	6 13	1 12
	22 42	6 7	0n50	16 33	2 47	21 58	2 13	26 21	2 50	21 22	0 35	8 42	2 38	20 1	0 9	10 6	0 53	23 57	1 54	8 58	8 50	9 43	6 12	1 12
M30	22 s49	2n21	1n51	16s41	2n44	21 s41	2s 9	26n23	2n52	21 s20	0 s35	8n41	2 s 3 8	20n 1	0s 9	10n 6	0n53	23n57	1n54	8n58	8n51	9n41	6n12	1n12

Julian Day Number = 2246956.5, Delta T = 06m47s

Ecliptic obliquity = 23°30'35, Nutation = -0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 16°55'32, Lahiri = 16°02'32 Julian Calendar 1 Nov. 1439 == Greg. Calendar 10 Nov. 1439

DECEMBER 1439 JC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	♂	21	t.)ţ(¥	Р	n	Ω	(K	Day
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T 1	5 11 43	17 × 23'58	10₽23	26M39	3≈38	29°R41	27 궁 31	28°R57	29°R44	6°R 8	19°R32	6°R58	7 m) 15	4 Mp 30	12°R50	T 1
W 2	5 15 39	18°25'05	22°41	27°16	4°30	29 ∏ 18	27°43	28 Y 54	29842	6M) 8	19931	6 Mp 54	7°12	4°37	12 Υ 49	W 2
T 3	5 19 36	19°26'14	5 M .18	28° 0	5°21	28°55	27°56	28°52	29°39	6° 8	19°30	6°47	7° 9	4°44	12°48	T 3
F 4	5 23 32	20°27'23	18°18	28°50	6°12	28°31	28° 9	28°50	29°37	6° 8	19°29	6°37	7° 5	4°50	12°47	F 4
S 5	5 27 29	21°28'32	1 √ 41	29°44	7° 2	28° 8	28°21	28°48	29°35	6° 8	19°28	6°25	7° 2	4°57	12°47	S 5
S 6	5 31 25	22°29'43	15°25	0 ∡ 142	7°51	27°44	28°34	28°46	29°33	6° 8	19°27	6°13	6°59	5° 3	12°46	S 6
M 7	5 35 22	23°30'54	29°28	1°45	8°39	27°20	28°47	28°44	29°30	6° 7	19°25	6° 1	6°56	5°10	12°46	M 7
T 8	5 39 19	24°32'05	13 云 44	2°50	9°26	26°56	29° 0	28°43	29°28	6° 7	19°24	5°50	6°53	5°17	12°45	T 8
W 9	5 43 15	25°33'16	28° 7	3°58	10°12	26°32	29°13	28°41	29°26	6° 7	19°23	5°43	6°50	5°23	12°45	W 9
T 10	5 47 12	26°34'28	12 ≈ 33	5° 9	10°58	26° 9	29°26	28°40	29°24	6° 7	19°22	5°38	6°46	5°30	12°44	T 10
F 11	5 51 8	27°35'39	26°55	6°22	11°42	25°45	29°39	28°38	29°21	6° 6	19°21	5°36	6°43	5°37	12°44	F 11
S 12	5 55 5	28°36'50	11 米 10	7°37	12°25	25°21	29°52	28°37	29°19	6° 6	19°19	5°D36	6°40	5°43	12°44	S 12
S 13	5 59 1	29°38'02	25°17	8°54	13° 7	24°58	0≈ 6	28°36	29°17	6° 5	19°18	5°R36	6°37	5°50	12°44	S 13
M14	6 2 58	0 ට 39'12	9 Υ 15	10°12	13°48	24°35	0°19	28°35	29°15	6° 5	19°17	5°36	6°34	5°57	12°44	M14
T 15	6 6 54	1°40'23	23° 4	11°32	14°28	24°12	0°32	28°34	29°13	6° 4	19°16	5°34	6°31	6° 3	12°D44	T 15
W16	6 10 51	2°41'34	6 8 43	12°53	15° 7	23°50	0°46	28°33	29°11	6° 4	19°14	5°29	6°27	6°10	12°44	W16
T 17	6 14 48	3°42'44	20°13	14°15	15°44	23°28	0°59	28°32	29° 9	6° 3	19°13	5°22	6°24	6°17	12°44	T 17
F 18	6 18 44	4°43'54	3 Ⅲ 31	15°38	16°20	23° 6	1°13	28°32	29° 7	6° 3	19°12	5°13	6°21	6°23	12°44	F 18
S 19	6 22 41	5°45'04	16°38	17° 2	16°54	22°45	1°26	28°31	29° 5	6° 2	19°11	5° 2	6°18	6°30	12°44	S 19
S 20	6 26 37	6°46'14	29°32	18°26	17°27	22°24	1°40	28°31	29° 3	6° 2	19° 9	4°51	6°15	6°37	12°44	S 20
M21	6 30 34	7°47'24	129513	19°52	17°58	22° 4	1°54	28°31	29° 2	6° 1	19°8	4°40	6°11	6°43	12°45	M21
T 22	6 34 30	8°48'34	24°39	21°18	18°28	21°45	2° 7	28°31	29° 0	6° 0	19° 7	4°32	6° 8	6°50	12°45	T 22
W23	6 38 27	9°49'43	6Ω 52	22°45	18°56	21°26	2°21	28°D31	28°58	5°59	19° 6	4°25	6° 5	6°56	12°45	W23
T 24	6 42 23	10°50'52	18°54	24°13	19°23	21° 8	2°35	28°31	28°56	5°59	19° 4	4°22	6° 2	7° 3	12°46	T 24
F 25	6 46 20	11°52'01	0 m /47	25°41	19°47	20°50	2°48	28°31	28°55	5°58	19° 3	4°D20	5°59	7°10	12°46	F 25
S 26	6 50 17	12°53'10	12°34	27°10	20°10	20°33	3° 2	28°31	28°53	5°57	19° 2	4°20	5°56	7°16	12°47	S 26
S 27	6 54 13	13°54'19	24°21	28°39	20°31	20°17	3°16	28°32	28°51	5°56	19° 0	4°22	5°52	7°23	12°48	S 27
M28	6 58 10	14°55'28	6 ₽ 13	0중 9	20°50	20° 1	3°30	28°32	28°50	5°55	18°59	4°23	5°49	7°30	12°48	M28
T 29	7 2 6	15°56'36	18°14	1°40	21° 7	19°46	3°44	28°33	28°48	5°54	18°58	4°R23	5°46	7°36	12°49	T 29
W30	7 6 3	1 <u>6</u> °57'44	0 M .30	<u>3°11</u>	21°22	19°32	3°58	28°34	28°47	5°53	18°56	4°22	5°43	7°43	12°50	W30
T 31	7 9 59	17 る 58'52	13 M 5	4 ⋜ 43	21≈34	19 I I19	4≈12	28 Y 35	28 8 46	5 m 52	18955	4 Mp 19	5 m 40	7 m 50	12 Y 51	T 31

Day	0	D	ğ	Q	С	7	24	ŀ	ħ	1);	j (Р	n	v	Ç	ď	;
	decl	decl lat	decl lat	it decl l	at decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
T 1 W 2	22 s55 23 0	1 s34 2n4 5 29 3 3			2s 4 26n25 1 59 26 28		21 s17 21 15	0 s35 0 35	8n41 8 40	2 s 3 7 2 3 7	20n 0 20 0		10n 6 10 6	0n53 0 53	23n58 1n5 23 58 1 5		8n52 8 54	9n39 9 38	6n11	1n12 1 12
T 3 F 4 S 5	23 5 23 10	12 44 4 4	7 17 37 2	2 30 20 49 2 24 20 31	1 53 26 30 1 48 26 32	3 2	21 13 21 10	0 35 0 35	8 40 8 39	2 37 2 37	19 59	0 9	10 6 10 6 10 7	0 53 0 53	23 58 1 5	4 9 7	8 55 8 56	9 36 9 35 9 33	6 10 6 10	1 12 1 11
S 5 S 6 M 7	23 18	17 47 4 5	8 18 14 2	2 17 20 13 2 10 19 54 2 3 19 35	1 42 26 33 1 36 26 35 1 30 26 36	3 6	21 7 21 5 21 2	0 35 0 35 0 35	8 39 8 38 8 38	2 36	19 59 19 58 19 58	0 9	10 7 10 7 10 7		23 59 1 5	4 9 16	8 57 8 58 9 0	9 33 9 31 9 30	6 9 6 9 6 9	1 11 1 11 1 11
T 8 W 9 T 10	23 24 23 26	18 50 3 59 17 34 3	18 54 1 5 19 15	1 55 19 17 1 47 18 57 1 39 18 38	1 23 26 38 1 16 26 39 1 9 26 40	3 9 3 11	21 0 20 57 20 54	0 35 0 35 0 35	8 38 8 37 8 37	2 35 2 35	19 57 19 57 19 56	0 9 0 9	10 7 10 7 10 7	0 53	23 59 1 5 24 0 1 5	5 9 24 5 9 27	9 1 9 2 9 3	9 28 9 27 9 25	6 8 6 8	1 11 1 11
F 11 S 12		11 51 0 4	5 19 56	1 39 18 38 1 31 18 19 1 23 17 59	1 9 26 40 1 2 26 41 0 54 26 41	3 14	20 54 20 52 20 49	0 35 0 35 0 35	8 37 8 37 8 37	2 35	19 56 19 55	0 9	10 7	0 53 0 53 0 53		5 9 29	9 3 9 4 9 5	9 23 9 22	6 8 6 8 6 7	1 11 1 10 1 10
S 13 M14 T 15 W16 T 17 F 18	23 31 23 30 23 30 23 29 23 27 23 25	1n 5 2 49 5 30 3 4 29 35 4 29 13 8 4 5	0 20 57 1 5 21 16 0 7 21 35 0 4 21 53 0	1 15 17 40 1 7 17 20 0 59 17 0 0 50 16 40 0 42 16 21 0 34 16 1	0 46 26 42 0 38 26 42 0 29 26 42 0 20 26 42 0 11 26 42 0 2 26 42	3 18 3 19 3 21 3 22	20 46 20 43 20 40 20 37 20 35 20 32	0 35 0 35 0 36 0 36 0 36 0 36	8 36 8 36 8 36 8 36 8 36 8 36	2 34	19 53	0 9 0 9 0 9 0 9	10 8 10 8 10 8 10 9	0 53 0 53 0 53 0 53 0 53 0 53	24 1 1 5 24 1 1 5 24 1 1 5 24 2 1 5 24 2 1 5 24 2 1 5	5 9 29 5 9 30 5 9 32 5 9 34	9 7 9 8 9 9 9 10 9 11 9 12	9 20 9 18 9 17 9 15 9 13 9 12	6 7 6 7 6 7 6 7 6 7 6 6	1 10 1 10 1 10 1 10 1 10 1 9
S 19 S 20 M21 T 22 W23 T 24 F 25 S 26	23 13 23 9 23 4	18 54 4 3 18 56 4 2 18 2 3 16 16 19 2 2 13 54 1 2 10 56 0 19	7 22 42 (2 22 57 (3 23 10 (2 23 23 35 (2 23 45 (3 45 (4 2 24 24 24 24 24 24 24 24 24 24 24 24	0 26 15 41 0 18 15 22 0 11 15 2 0 3 14 43 0s 4 14 24 0 12 14 5 0 19 13 46 0 26 13 28	0n 8 26 42 0 18 26 41 0 28 26 41 0 39 26 40 0 50 26 39 1 1 26 38 1 13 26 37 1 24 26 36	3 24 3 25 3 25 3 26 3 26	20 29 20 26 20 23 20 20 20 17 20 13 20 10 20 7	0 36 0 36 0 36 0 36 0 36 0 36 0 36	8 37 8 37 8 37 8 37 8 37 8 38 8 38	2 32 2 32 2 31 2 31 2 31 2 30	19 51	0 9 0 9 0 9 0 9 0 9	10 9 10 10 10 10 10 10 10 11	0 54 0 54 0 54 0 54 0 54 0 54 0 54	24 3 1 5 24 3 1 5 24 3 1 5 24 3 1 5 24 4 1 5 24 4 1 5	6 9 46 6 9 50 6 9 53 6 9 55 6 9 56 6 9 57	9 14 9 15 9 16 9 17 9 18 9 20 9 21 9 22	9 10 9 9 9 7 9 5 9 4 9 2 9 0 8 59	6 6 6 6 6 6 6 6 6 7 6 7	1 9 1 9 1 9 1 9 1 9 1 9 1 8
S 27 M28 T 29	22 47 22 40 22 33 22 26 22 s18	3 52 1 40 0 2 2 4 3 s51 3 33 7 40 4 1	5 24 3 0 4 24 10 0 5 24 16 0 7 24 21 0	0 33 13 10 0 40 12 52 0 46 12 35	1 37 26 35 1 49 26 34 2 2 26 33 2 15 26 32 2n28 26n31	3 27 3 27 3 27 3 27	20 4	0 36 0 36 0 36 0 36 0 36	8 39 8 39 8 40 8 41 8n41	2 30 2 30 2 29 2 29	19 49 19 49 19 49 19 48 19n48	0 9 0 9 0 9 0 9	10 12 10 12 10 12 10 13 10n13	0 54 0 54 0 54 0 54 0 n54	24 4 1 5 24 5 1 5 24 5 1 5 24 5 1 5	6 9 56 6 9 56 6 9 56 6 9 56	9 23 9 24 9 25 9 27 9n28	8 57 8 55 8 54 8 52 8n50	6 7 6 7 6 7 6 7 6n 8	1 8 1 8 1 8 1 8 1 8

Julian Day Number = 2246986.5, Delta T = 06m47s

Ecliptic obliquity = $23^{\circ}30'34$, Nutation = - $0^{\circ}00'07$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°55'36, Lahiri = 16°02'36 Julian Calendar 1 Dec. 1439 == Greg. Calendar 10 Dec. 1439