

Astrodienst Ephemeris Tables for the year 1860

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 1860 00:00 UT

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Day	Sid.t	0	D	ğ	Ş	ď	4	ħ)∤(并	В	ß	Ω	Ç	ę,	Day
S 1	6 39 31	9 ට 51'17	4 Υ 52	17 × 14	3≈ 9	11 M 25	21°R35	25°R31	4°R24	24) 33	6°R38	11°R34	12≈49	26≈43	19≈47	S 1
M 2	6 43 28	10°52'27	17° 3	18° 6	4°24	12° 2	219527	25 Ω 29	4 Ⅱ 22	24°34	6 8 38	11 ≈ 34	12°46	26°50	19°50	M 2
T 3	6 47 24	11°53'36	29°33	19° 1	5°39	12°39	21°19	25°26	4°21	24°35	6°38	11°33	12°43	26°56	19°54	T 3
W 4	6 51 21	12°54'45	12826	20° 0	6°53	13°16	21°11	25°23	4°19	24°36	6°37	11°30	12°39	27° 3	19°58	W 4
T 5	6 55 17	13°55'54	25°43	21° 3	8° 8	13°53	21° 3	25°20	4°17	24°37	6°37	11°26	12°36	27°10	20° 1	T 5
F 6	6 59 14	14°57'03	9∏28	22° 8	9°23	14°30	20°55	25°17	4°15	24°38	6°37	11°22	12°33	27°16	20° 5	F 6
S 7	7 3 10	15°58'11	23°38	23°16	10°37	15° 7	20°47	25°14	4°13	24°39	6°36	11°18	12°30	27°23	20° 9	S 7
S 8	7 7 7	16°59'19	89911	24°26	11°52	15°44	20°39	25°11	4°12	24°40	6°36	11°15	12°27	27°30	20°13	S 8
M 9	7 11 4	18° 0'27	22°58	25°38	13° 7	16°21	20°31	25° 7	4°10	24°41	6°36	11°12	12°24	27°36	20°17	M 9
T 10	7 15 0	19° 1'35	7Ω 54	26°52	14°21	16°58	20°23	25° 4	4° 9	24°42	6°35	11°D12	12°20	27°43	20°20	T 10
W11	7 18 57	20° 2'42	22°50	28° 8	15°36	17°35	20°15	25° 0	4° 7	24°44	6°35	11°12	12°17	27°50	20°24	W11
T 12	7 22 53	21° 3'49	7 m √38	2 <u>9</u> °25	16°51	18°12	20° 7	24°57	4° 6	24°45	6°35	11°13	12°14	27°56	20°28	T 12
F 13	7 26 50	22° 4'55	22°12	0 궁 44	18° 5	18°48	19°59	24°53	4° 4	24°46	6°35	11°14	12°11	28° 3	20°32	F 13
S 14	7 30 46	23° 6'02	6 ≏ 28	2° 4	19°20	19°25	19°51	24°50	4° 3	24°47	6°35	11°16	12° 8	28°10	20°36	S 14
S 15	7 34 43	24° 7'08	20°25	3°25	20°34	20° 2	19°43	24°46	4° 1	24°49	6°35	11°R16	12° 5	28°16	20°40	S 15
M16	7 38 39	25° 8'15	4M 2	4°47	21°49	20°39	19°35	24°42	4° 0	24°50	6°34	11°16	12° 1	28°23	20°44	M16
T 17	7 42 36	26° 9'21	17°20	6°10	23° 3	21°16	19°27	24°38	3°59	24°51	6°34	11°15	11°58	28°30	20°48	T 17
W18	7 46 33	27°10'27	0 √ 21	7°34	24°18	21°52	19°19	24°34	3°57	24°53	6°34	11°13	11°55	28°36	20°52	W18
T 19	7 50 29	28°11'32	13° 6	8°59	25°32	22°29	19°11	24°30	3°56	24°54	6°34	11°12	11°52	28°43	20°56	T 19
F 20	7 54 26	29°12'37	2 <u>5</u> °38	10°25	26°46	23° 6	19° 3	24°26	3°55	24°56	6°34	11°10	11°49	28°50	21° 0	F 20
S 21	7 58 22	0≈13'42	7 궁 57	11°51	28° 1	23°42	18°55	24°22	3°54	24°57	6°D34	11° 8	11°45	28°56	21° 5	S 21
S 22	8 2 19	1°14'46	20° 7	13°19	29°15	24°19	18°47	24°18	3°53	24°59	6°34	11° 7	11°42	29° 3	21° 9	S 22
M23	8 6 15	2°15'49	2≈ 8	14°47	0 ∺ 29	24°56	18°40	24°13	3°52	25° 0	6°34	11° 6	11°39	29° 9	21°13	M23
T 24	8 10 12	3°16'51	14° 3	16°16	1°44	25°32	18°32	24° 9	3°51	25° 2	6°34	11°D 6	11°36	29°16	21°17	T 24
W25	8 14 8	4°17'52	25°52	17°45	2°58	26° 9	18°25	24° 4	3°50	25° 3	6°34	11° 6	11°33	29°23	21°21	W25
T 26	8 18 5	5°18'53	7) (40	19°15	4°12	26°45	18°17	24° 0	3°49	25° 5	6°34	11° 7	11°30	29°29	21°25	T 26
F 27	8 22 2	6°19'52	19°27	20°46	5°26	27°21	18°10	23°56	3°48	25° 6	6°35	11° 7	11°26	29°36	21°30	F 27
S 28	8 25 58	7°20'50	1 Ƴ 19	22°18	6°40	27°58	18° 2	23°51	3°48	25° 8	6°35	11° 8	11°23	29°43	21°34	S 28
S 29	8 29 55	8°21'47	13°17	23°50	7°54	28°34	17°55	23°46	3°47	25°10	6°35	11° 8	11°20	29°49	21°38	S 29
M30	8 33 51	9°22'43	25°27	2 <u>5</u> °23	9° 8	29°10	17°48	23°42	3°46	25°11	6°35	11° 9	11°17	29°56	21°42	M30
T 31	8 37 48	10≈23'38	7 8 53	26 궁 57	10 ∺ 22	29 M 47	179541	23 £ 37	3 Ⅱ 46	25 米 13	6 8 35	11≈ 9	11≈14	0 ∺ 3	21≈47	T 31

Day	0	D	ğ	·	♂	4	ħ)Å(卉	Р	S S	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl de	cl decl	decl lat
S 1 M 2	23 s 6 23 1		20 51 2		14 32 0 58	22n 1 0n17 22 2 0 18	14 16 1 18	20n56 0s 6 20 56 0 6	3 s20 1 s17 3 20 1 16		17 20 17	0 11 24	9s 3 6n 9 9 3 6 8
T 3 W 4 T 5	22 56 22 50 22 44		21 5 1 5 21 18 1 4 21 31 1 3	47 20 9 1 38 1	14 44 0 58 14 56 0 57 15 7 0 57	22 5 0 18			3 19 1 16 3 19 1 16 3 19 1 16		17 20 17 17 21 17 17 22 17	1 11 21 1 11 18 2 11 15	
F 6 S 7	22 37	26 27 4 37	21 44 1 3 21 57 1 2	30 19 30 1 39 1	15 18 0 56	22 8 0 18	14 20 1 19	20 55 0 6 20 55 0 6	3 18 1 16	1 45 16 22 1 45 16 21	17 23 17	3 11 12 4 11 9	8 59 6 7
S 8 M 9 T 10	22 23 22 15 22 6	23 8 1 39		3 18 29 1 40 1	15 52 0 55	22 12 0 19	14 24 1 19	20 54 0 6 20 54 0 6 20 54 0 6	1 11 11	1 45 16 21 1 44 16 21 1 44 16 20	17 26 17	5 11 6 6 11 3 7 10 59	8 56 6 6
W11 T 12	21 58 21 48	12 55 1s 4 6 32 2 21	22 42 0 4 22 51 0 3	45 17 45 1 40 1 37 17 23 1 40 1	16 13 0 54 16 24 0 54	22 15 0 19 22 16 0 19	14 27 1 20 14 28 1 20	20 53 0 6 20 53 0 6	3 16 1 16 3 15 1 16	1 44 16 20 1 44 16 20	17 26 17 17 26 17	8 10 56 9 10 53	8 54 6 6 8 53 6 6
S 14	21 39 21 29	6 33 4 20		20 16 36 1 39 1	16 45 0 53	22 18 0 19	14 31 1 20	20 53 0 6 20 53 0 6	3 15 1 16 3 14 1 16	1 43 16 19 1 43 16 19	17 25 17		8 51 6 5
S 15 M16 T 17	21 18 21 7 20 56	17 48 5 14	23 13 0 1 23 19 0 23 24 0s	3 15 48 1 39 1	17 5 0 52	22 20 0 19 22 21 0 20 22 22 0 20	14 34 1 21	20 52 0 6 20 52 0 6 20 52 0 6			17 25 17 17 25 17 17 25 17	12 10 41	8 49 6 5
W18 T 19 F 20	20 45 20 32 20 20	26 50 4 29	23 27 0 1 23 29 0 2 23 30 0 2	20 14 33 1 37 1	17 35 0 51	22 24 0 20 22 25 0 20 22 26 0 20	14 38 1 21	20 52 0 6 20 51 0 6 20 51 0 6		1 42 16 17	17 25 17 17 26 17 17 26 17	15 10 32	8 46 6 4
S 21 S 22	20 7	26 7 2 54		34 13 40 1 36 1	17 55 0 50	22 27 0 20	14 41 1 21	20 51 0 6			17 27 17	17 10 26	8 44 6 4
M23 T 24	19 40 19 26	20 30 0 50 16 22 0n16	23 26 0 4 23 22 0 5	48 12 46 1 34 1 55 12 19 1 33 1	18 13 0 49 18 23 0 48	22 30 0 20 22 31 0 21	14 45 1 22 14 46 1 22	20 51 0 6 20 51 0 6	3 9 1 16 3 8 1 16	1 40 16 16 1 40 16 15	17 27 17 17 27 17	18 10 19 19 10 16	8 42 6 4 8 40 6 3
W25 T 26 F 27	19 12 18 57 18 42	11 38 1 21 6 30 2 22 1 9 3 18	23 11 1		18 41 0 47	22 32 0 21 22 33 0 21 22 34 0 21	14 49 1 22	20 50 0 6 20 50 0 6 20 50 0 6	3 7 1 16	1 39 16 15	17 27 17	20 10 13 21 10 10 22 10 7	8 38 6 3
S 28 S 29	18 27 18 11		22 54 1 1 22 44 1 2			22 35 0 21 22 36 0 21		20 50 0 6 20 50 0 6			17 27 17 17 27 17		8 36 6 3 8 34 6 3
M30 T 31	17 55 17 s39		22 32 1 2 22 s19 1 s3			22 37 0 21 22n38 0n21		20 50 0 6 20n50 0s 6	- 1	1 38 16 13 1s37 16s13			

Julian Day Number = 2400410.5, Delta T = 9.00 sec Ecliptic obliquity = 23°27'33, Nutation = 0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}47'07$, Lahiri = $21^{\circ}54'07$

FEBRUARY 1860 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂ [™]	24	ħ)∤(,	Р	n	Ω	Ç	ķ	Day
W 1	8 41 44	11≈24'31	20839	28 ට 32	11) 36	0 × ⁷ 23	17°R34	23°R32	3°R45	25 ¥ 15	6 8 36	11≈ 9	11≈11	0 X 9	21≈51	W 1
T 2	8 45 41	12°25'23	3 II 49	0 ≈ 7	12°50	0°59	179528	$23\Omega 28$	3 Ⅱ 45	25°17	6°36	11° 9	11° 7	0°16	21°55	T 2
F 3	8 49 37	13°26'13	17°25	1°43	14° 4	1°35	17°21	23°23	3°44	25°19	6°36	11° 9	11° 4	0°23	22° 0	F 3
S 4	8 53 34	14°27'03	19529	3°19	15°18	2°11	17°15	23°18	3°44	25°20	6°36	11° 9	11° 1	0°29	22° 4	S 4
S 5	8 57 31	15°27'50	15°59	4°57	16°32	2°48	17° 8	23°13	3°43	25°22	6°37	11°10	10°58	0°36	22° 8	S 5
M 6	9 1 27	16°28'37	0Ω50	6°35	17°45	3°24	17° 2	23° 9	3°43	25°24	6°37	11°10	10°55	0°43	22°13	M 6
T 7	9 5 24	17°29'21	15°57	8°14	18°59	4° 0	16°56	23° 4	3°43	25°26	6°37	11°R10	10°51	0°49	22°17	T 7
W 8	9 9 20	18°30'05	1 mp 1 1	9°53	20°12	4°36	16°50	22°59	3°43	25°28	6°38	11°10	10°48	0°56	22°21	W 8
T 9	9 13 17	19°30'47	16°20	11°34	21°26	5°11	16°44	22°54	3°43	25°30	6°38	11° 9	10°45	1° 3	22°26	T 9
F 10	9 17 13	20°31'28	1 ≙ 17	13°15	22°39	5°47	16°39	22°49	3°42	25°32	6°39	11° 8	10°42	1° 9	22°30	F 10
S 11	9 21 10	21°32'08	15°53	14°57	23°53	6°23	16°33	22°44	3°D42	25°34	6°39	11° 7	10°39	1°16	22°34	S 11
S 12	9 25 6	22°32'47	OM 5	16°40	25° 6	6°59	16°28	22°40	3°42	25°36	6°40	11° 5	10°36	1°23	22°39	S 12
M13	9 29 3	23°33'25	13°51	18°24	26°19	7°35	16°23	22°35	3°43	25°38	6°40	11° 5	10°32	1°29	22°43	M13
T 14	9 33 0	24°34'01	27°11	20° 9	27°33	8°10	16°18	22°30	3°43	25°40	6°41	11°D 5	10°29	1°36	22°47	T 14
W15	9 36 56	25°34'37	10 才 7	21°54	28°46	8°46	16°13	22°25	3°43	25°42	6°41	11° 5	10°26	1°43	22°52	W15
T 16	9 40 53	26°35'11	22°43	23°41	29°59	9°22	16° 8	22°20	3°43	25°44	6°42	11° 6	10°23	1°49	22°56	T 16
F 17	9 44 49	27°35'44	5중 2	25°28	1 Υ 12	9°57	16° 4	22°15	3°43	25°46	6°42	11° 7	10°20	1°56	23° 0	F 17
S 18	9 48 46	28°36'16	17°10	27°16	2°25	10°33	15°59	22°10	3°44	25°48	6°43	11° 9	10°17	2° 2	23° 5	S 18
S 19	9 52 42	29°36'46	29° 7	29° 5	3°38	11° 8	15°55	22° 6	3°44	25°50	6°43	11°10	10°13	2° 9	23° 9	S 19
M20	9 56 39	0) €37'15	10≈59	0 ∺ 55	4°51	11°43	15°51	22° 1	3°45	25°52	6°44	11°R11	10°10	2°16	23°13	M20
T 21	10 0 36	1°37'42	22°48	2°46	6° 3	12°19	15°48	21°56	3°45	25°54	6°45	11°10	10° 7	2°22	23°17	T 21
W22	10 4 32	2°38'07	4) €36	4°38	7°16	12°54	15°44	21°51	3°46	25°56	6°45	11° 8	10° 4	2°29	23°22	W22
T 23	10 8 29	3°38'31	16°24	6°30	8°29	13°29	15°41	21°47	3°46	25°58	6°46	11° 6	10° 1	2°36	23°26	T 23
F 24	10 12 25	4°38'53	28°16	8°23	9°41	14° 4	15°37	21°42	3°47	26° 0	6°47	11° 2	9°57	2°42	23°30	F 24
S 25	10 16 22	5°39'13	10 Y 13	10°17	10°54	14°39	15°34	21°37	3°48	26° 2	6°47	10°58	9°54	2°49	23°35	S 25
S 26	10 20 18	6°39'31	22°17	12°11	12° 6	15°14	15°32	21°33	3°48	26° 5	6°48	10°53	9°51	2°56	23°39	S 26
M27	10 24 15	7°39'48	4 8 31	14° 5	13°19	15°49	15°29	21°28	3°49	26° 7	6°49	10°49	9°48	3° 2	23°43	M27
T 28	10 28 11	8°40'02	16°59	16° 0	14°31	16°24	15°26	21°23	3°50	26° 9	6°50	10°46	9°45	3° 9	23°47	T 28
W29	10 32 8	9) 40'15	29 8 42	17) 55	15 ℃ 43	16 ₹ 59	159524	$21\Omega 19$	3耳51	26) 11	6 8 51	10≈44	9≈42	3): 16	23≈51	W29

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	decl	decl lat	dec	l lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
W 1	17 s22	22n58 5r	n14 22 s	4 1 s 3 8	8 s 2 9	1 s23	19 s32	0n44	22n39	0n21	14n59	1n23	20n50	0s 6	3 s 3	1 s16	1s37 16s1	3 17 s27	17 s26	9s51	8 s 3 1	6n 2
T 2	17 5	25 44 4	54 21 4	8 1 42	8 0	1 21	19 40	0 43	22 40	0 21	15 1	1 23	20 49	0 6	3 2	1 16	1 36 16 1	2 17 27	17 27	9 48	8 29	6 2
F 3	16 48	27 7 4	17 21 3	1 1 46	7 30	1 19	19 48	0 43	22 41	0 22	15 3	1 23	20 49	0 6	3 1	1 16	1 36 16 1	2 17 27	17 28	9 45	8 28	6 2
S 4	16 31	26 50 3	23 21 1	2 1 49	6 59	1 17	19 56	0 42	22 42	0 22	15 4	1 23	20 49	0 6	3 1	1 16	1 36 16 1	1 17 27	17 29	9 42	8 27	6 2
S 5	16 13	24 45 2	16 20 5	2 1 53	6 29	1 16	20 3	0 41	22 43	0 22	15 6	1 23	20 49	0 6	3 0	1 16	1 35 16 1	1 17 26	17 30	9 39	8 26	6 2
M 6	15 55	20 55 0	57 20 3	0 1 56	5 58	1 14	20 11	0 41	22 44	0 22	15 8	1 24	20 49	0 6	2 59	1 15	1 35 16 1	1 17 26	17 31	9 36	8 24	6 2
T 7	15 36	15 39 0s	s27 20	7 1 58	5 28	1 12	20 18	0 40	22 45	0 22	15 9	1 24	20 49	0 6	2 58	1 15	1 34 16 1	0 17 26	17 31	9 33	8 23	6 2
W 8	15 18	9 22 1	49 19 4	3 2 0	4 57	1 10	20 26	0 40	22 46	0 22	15 11	1 24	20 49	0 6	2 58	1 15	1 34 16 1	0 17 26	17 32	9 30	8 22	6 2
T 9	14 59	2 35 3	3 19 1	7 2 2	4 26	1 7	20 33	0 39	22 47	0 22	15 13		20 49		2 57	1 15	1 33 16 1			9 26	8 20	6 2
F 10	14 40				3 55	1 5	20 40	0 38	22 47	0 22	15 15	1 24	20 49	0 6	2 56	1 15	1 33 16			9 23	8 19	6 2
S 11	14 20	10 40 4	47 18 2	1 2 5	3 24	1 3	20 47	0 37	22 48	0 22	15 16	1 24	20 49	0 6	2 55	1 15	1 33 16	9 17 27	17 35	9 20	8 18	6 2
S 12	14 1	-	11 17 5	-	2 53	1 1			22 49	0 22	15 18	1 24	20 49	0 6	2 54	1 15		9 17 28		9 17	8 16	6 2
M13	13 41	-	17 17 1		2 21	0 58	-		22 50	0 22			20 49			-	-	8 17 28		9 14	8 15	6 2
T 14	13 21	24 29 5	-		1 50	0 56		0 35	22 50		15 21	1 24	20 49	0 5			1 31 16	8 17 28	17 37	9 11	8 14	6 2
W15			38 16 1	-	1 18	0 53			22 51	0 23			20 49		2 52	1 15	-	8 17 28	17 38	9 8	8 12	6 2
T 16	12 40	27 13 3	57 15 3	5 2 4	0 47	0 51			22 52	0 23	15 25	1 25	20 49	0 5	2 51	1 15		7 17 27	17 39	9 4	8 11	6 2
F 17	12 19	26 29 3	7 14 5	8 2 2	0 15	0 48			22 52		15 26	1 25	20 49	0 5	2 50	1 15		7 17 27		9 1	8 10	6 2
S 18	11 58	24 29 2	9 14 1	9 2 0	0n16	0 45	21 31	0 32	22 53	0 23	15 28	1 25	20 50	0 5	2 49	1 15	1 29 16	7 17 27	17 41	8 58	8 8	6 1
	11 37	-	6 13 3		0 48	0 43			22 53	-	15 30		20 50		2 49	1 15		6 17 26	17 42	8 55	8 7	6 1
M20	-		1 12 5		1 19	0 40			22 54		15 31		20 50			-		6 17 26		8 52	8 6	6 1
T 21			n 4 12 1	-	1 51	0 37	-		22 54		15 33		20 50		2 47	1 15	-	6 17 26		8 49	8 4	6 2
W22	10 33		-		2 22	0 34			22 55		15 34		20 50		2 46	-		5 17 27		8 46	8 3	6 2
T 23	10 11	2 34 3	-		2 54	0 31			22 55		15 36		20 50			-		5 17 28		8 43	8 1	6 2
F 24	9 49		51 9 5		3 25	0 28			22 56		15 38		20 50			-		5 17 29		8 39	8 0	6 2
S 25	9 27	8 11 4	30 9	8 1 31	3 56	0 25	22 8	0 26	22 56	0 23	15 39	1 25	20 50	0 5	2 44	1 15	1 26 16	4 17 30	17 47	8 36	7 59	6 2
S 26			58 8 1	-	4 27	0 22			22 57		15 41		20 51			-	-	4 17 31		8 33	7 57	6 2
M27	-		12 7 2		4 59	0 18			22 57		15 42		20 51					4 17 32		8 30		6 2
T 28		-	12 6 3	-	5 30	0 15			22 57	-	15 44		20 51			-		4 17 33		8 27	7 54	6 2
W29	7 s57	24n56 4r	n57 5 s4	4 1s 2	6n 1	0s12	22 s27	0n23	22n58	0n24	15n45	1n25	20n51	0s 5	2 s40	1 s15	1 s24 16 s	3 17 s33	17 s50	8 s24	7 s53	6n 2

Julian Day Number = 2400441.5, Delta T = 8.99 sec Ecliptic obliquity = $23^{\circ}27'33$, Nutation = $0^{\circ}00'14$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 22°47'11, Lahiri = 21°54'12

MARCH 1860 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)វ(¥	Р	v	Ω	Ç	ķ	Day
T 1	10 36 4	10) (40'25	12 Ⅱ 45	19) (49	16 Y 55	17 × 33	15°R22	21°R14	3 II 52	26 米 13	6 8 51	10°D44	9≈38	3 ∺ 22	23≈56	T 1
F 2	10 40 1	11°40'33	26°10	21°44	18° 7	18° 8	159520	21 Ω 10	3°53	26°16	6°52	10≈45	9°35	3°29	24° 0	F 2
S 3	10 43 58	12°40'40	1099 0	23°37	19°19	18°42	15°19	21° 6	3°54	26°18	6°53	10°46	9°32	3°36	24° 4	S 3
S 4	10 47 54	13°40'44	24°16	25°30	20°31	19°17	15°17	21° 1	3°55	26°20	6°54	10°48	9°29	3°42	24° 8	S 4
M 5	10 51 51	14°40'45	8Ω 56	27°21	21°43	19°51	15°16	20°57	3°56	26°22	6°55	10°R48	9°26	3°49	24°12	M 5
T 6	10 55 47	15°40'45	23°55	29°10	22°54	20°26	15°15	20°53	3°58	26°25	6°56	10°48	9°22	3°56	24°16	T 6
W 7	10 59 44	16°40'43	9 m) 7	0 Υ 57	24° 6	21° 0	15°14	20°49	3°59	26°27	6°57	10°45	9°19	4° 2	24°20	W 7
T 8	11 3 40	17°40'38	24°21	2°42	25°17	21°34	15°13	20°45	4° 0	26°29	6°58	10°41	9°16	4° 9	24°24	T 8
F 9	11 737	18°40'32	9 ≙ 29	4°23	26°29	22° 8	15°13	20°41	4° 2	26°31	6°59	10°36	9°13	4°16	24°29	F 9
S 10	11 11 33	19°40'24	24°19	6° 1	27°40	22°42	15°12	20°37	4° 3	26°34	7° 0	10°30	9°10	4°22	24°33	S 10
S 11	11 15 30	20°40'14	8 M .45	7°34	28°51	23°16	15°D12	20°33	4° 5	26°36	7° 1	10°24	9° 7	4°29	24°37	S 11
M12	11 19 27	21°40'03	22°43	9° 3	0 8 2	23°50	15°12	20°29	4° 6	26°38	7° 2	10°19	9° 3	4°36	24°41	M12
T 13	11 23 23	22°39'50	6 ₹ 11	10°26	1°13	24°24	15°13	20°25	4° 8	26°40	7° 3	10°16	9° 0	4°42	24°44	T 13
W14	11 27 20	23°39'35	19°12	11°44	2°24	24°57	15°13	20°22	4° 9	26°43	7° 4	10°D15	8°57	4°49	24°48	W14
T 15	11 31 16	24°39'19	1 る 48	12°56	3°35	25°31	15°14	20°18	4°11	26°45	7° 5	10°15	8°54	4°56	24°52	T 15
F 16	11 35 13	25°39'00	14° 5	14° 1	4°45	26° 4	15°15	20°15	4°13	26°47	7° 6	10°16	8°51	5° 2	24°56	F 16
S 17	11 39 9	26°38'40	26° 7	14°59	5°56	26°37	15°16	20°11	4°14	26°49	7° 7	10°18	8°48	5° 9	25° 0	S 17
S 18	11 43 6	27°38'19	8≈ 0	15°50	7° 6	27°11	15°17	20° 8	4°16	26°52	7° 8	10°R18	8°44	5°16	25° 4	S 18
M19	11 47 2	28°37'55	19°47	16°34	8°16	27°44	15°18	20° 4	4°18	26°54	7° 9	10°18	8°41	5°22	25° 8	M19
T 20	11 50 59	29°37'29	1) (34	17°10	9°26	28°17	15°20	20° 1	4°20	26°56	7°10	10°15	8°38	5°29	25°11	T 20
W21	11 54 56	0 Υ 37'02	13°22	17°38	10°36	28°50	15°22	19°58	4°22	26°59	7°11	10°10	8°35	5°36	25°15	W21
T 22	11 58 52	1°36'32	25°15	17°58	11°46	29°23	15°24	19°55	4°24	27° 1	7°12	10° 3	8°32	5°42	25°19	T 22
F 23	12 2 49	2°36'01	7 Υ 14	18°11	12°56	2 <u>9</u> °55	15°26	19°52	4°26	27° 3	7°13	9°54	8°28	5°49	25°22	F 23
S 24	12 6 45	3°35'27	19°21	18°R15	14° 6	0 る 28	15°28	19°49	4°28	27° 5	7°15	9°44	8°25	5°56	25°26	S 24
S 25	12 10 42	4°34'52	1 8 36	18°12	15°15	1° 0	15°31	19°47	4°30	27° 8	7°16	9°33	8°22	6° 2	25°30	S 25
M26	12 14 38	5°34'14	14° 2	18° 2	16°25	1°32	15°34	19°44	4°32	27°10	7°17	9°24	8°19	6° 9	25°33	M26
T 27	12 18 35	6°33'34	26°39	17°44	17°34	2° 5	15°37	19°41	4°34	27°12	7°18	9°15	8°16	6°15	25°37	T 27
W28	12 22 31	7°32'52	9∏29	17°21	18°43	2°37	15°40	19°39	4°37	27°14	7°19	9°10	8°13	6°22	25°40	W28
T 29	12 26 28	8°32'07	22°33	16°51	19°52	3° 9	15°43	19°37	4°39	27°17	7°21	9° 6	8° 9	6°29	25°44	T 29
F 30	12 30 25	9°31'21	5 9 55	16°16	21° 1	3°40	15°47	19°34	4°41	27°19	7°22	9°D 5	8° 6	6°35	25°47	F 30
S 31	12 34 21	10 Y 30'31	19936	15 Y 37	22 8 9	4 궁 12	15950	19 Ω 32	4∏44	27 米 21	7 8 23	9≈ 5	8 ≈ 3	6) 42	25≈50	S 31

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S 4 M 5 T 6 W 7 T 8 F 9 S 10	6 25 6 2 5 39 5 16 4 52 4 29 4 6	18 12 0 10 12 27 1s11 5 52 2 28 1s 3 3 35 7 50 4 26	2 8 0 23 1 14 0 12 0 20 0n 0 0n34 0 12 1 27 0 25 2 19 0 37 3 10 0 50	8 33 0 5 22 9 3 0 9 22 9 33 0 12 22 10 2 0 16 22 10 31 0 19 23	46 0 18 50 0 17 53 0 16 57 0 15 0 0 14	22 59 0 24 22 59 0 24 22 59 0 24 22 59 0 24 22 59 0 24	15 52 1 25 15 54 1 25 15 55 1 25 15 56 1 25 15 58 1 25	20 52 0 5 20 53 0 5	2 34 1 15 2 33 1 15 2 32 1 15	1 21 16 2 1 20 16 2 1 20 16 1 1 19 16 1 1 19 16 1	17 32 17 54 17 32 17 55 17 32 17 55 17 33 17 56 17 34 17 57 17 36 17 58 17 37 17 59	8 8 8 5	7 47 6 2 7 46 6 2 7 44 6 2 7 43 6 2 7 42 6 2 7 40 6 3 7 39 6 3
S 11 M12 T 13 W14 T 15 F 16 S 17	3 42 3 18 2 55 2 31 2 8 1 44	19 19 5 10 23 21 5 3 25 57 4 40 27 2 4 2 26 40 3 14		11 29 0 27 23 11 58 0 30 23 12 26 0 34 23 12 54 0 38 23 13 22 0 41 23 13 49 0 45 23	6 0 12 9 0 10 11 0 9 14 0 8 16 0 7 18 0 6	22 59 0 24 23 0 0 24 23 0 0 24 23 0 0 24 22 59 0 24 22 59 0 24	16 0 1 25 16 1 1 25 16 3 1 26 16 4 1 25 16 5 1 25 16 6 1 25	20 54 0 5 20 54 0 5 20 54 0 5 20 54 0 5 20 55 0 5 20 55 0 5	2 30 1 15 2 29 1 15 2 28 1 15 2 28 1 15 2 27 1 15 2 26 1 15	1 18 16 0 1 17 16 0 1 17 16 0 1 16 15 59	17 39 18 0 17 40 18 0 17 41 18 1 17 41 18 2 17 41 18 3 17 41 18 4	7 49 7 46 7 43 7 40 7 36 7 33 7 30	
S 18 M19 T 20 W21 T 22 F 23 S 24		18 29 0 13 14 5 0n51 9 11 1 52 3 57 2 49 1n26 3 38 6 49 4 18	8 34 2 31 9 0 2 42 9 23 2 51 9 42 3 0 9 56 3 7 10 7 3 13	14 43 0 52 23 15 10 0 56 23 15 36 1 0 23 16 1 1 4 23 16 27 1 7 23	23 0 3 24 0 2 26 0 1 28 0s 1 29 0 2 31 0 3	22 59 0 24 22 59 0 24	16 8 1 25 16 9 1 25 16 10 1 25 16 11 1 25 16 12 1 25 16 13 1 25	20 56 0 5 20 56 0 5 20 57 0 5 20 57 0 5 20 57 0 5	2 24 1 15 2 23 1 15 2 22 1 15 2 21 1 15 2 20 1 15 2 19 1 15	1 14 15 59 1 13 15 58 1 13 15 58 1 12 15 58 1 12 15 58 1 11 15 57	17 40 18 5 17 41 18 6 17 41 18 7 17 43 18 8	7 27 7 24 7 21 7 17 7 14 7 11	7 28 6 4 7 26 6 4 7 25 6 4 7 23 6 4 7 22 6 4 7 21 6 5 7 19 6 5
S 24 S 25 M26 T 27 W28 T 29 F 30 S 31	1 49 2 13 2 36 3 0 3 23 3 47	16 46 5 2 20 54 5 4 24 9 4 51 26 14 4 24 26 57 3 42		17 41 1 19 23 18 4 1 22 23 18 28 1 26 23 18 51 1 30 23 19 13 1 33 23 19 35 1 37 23	33 0 6 35 0 8 36 0 9 36 0 10 37 0 12 38 0 13		16 15 1 25 16 16 1 25 16 16 1 25 16 17 1 25 16 18 1 25 16 19 1 25	20 59 0 5 20 59 0 5 20 59 0 5 20 59 0 5 21 0 0 5 21 0 0 5	2 18 1 15 2 17 1 15 2 16 1 15 2 15 1 15 2 14 1 15 2 13 1 15	1 10 15 57 1 9 15 57 1 9 15 57 1 8 15 56 1 8 15 56 1 7 15 56	17 52 18 11 17 55 18 12 17 57 18 13 17 59 18 14 18 0 18 15	7 5 7 2 6 58 6 55 6 52 6 49	7 18 6 5 7 17 6 5 7 15 6 5 7 14 6 6 7 13 6 6 7 11 6 6

Julian Day Number = 2400470.5, Delta T = 8.98 sec Ecliptic obliquity = $23^{\circ}27'33$, Nutation = $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}47'15$, Lahiri = $21^{\circ}54'16$

APRIL 1860 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(卉	Р	v	Ω	Ç	, k	Day
S 1	12 38 18	11 Y 29'40	3 Ω 37	14°R54	23818	4 ⋜ 43	15954	19°R30	4 Ⅱ 46	27) 23	7 8 24	9°R 6	8 ≈ 0	6) (49	25≈54	S 1
M 2	12 42 14	12°28'46	17°59	14 Y 8	24°26	5°15	15°58	19 Ω 28	4°48	27°26	7°26	9≈ 5	7°57	6°55	25°57	M 2
T 3	12 46 11	13°27'50	2 m 39	13°21	25°34	5°46	16° 2	19°26	4°51	27°28	7°27	9° 3	7°54	7° 2	26° 0	T 3
W 4	12 50 7	14°26'51	17°33	12°33	26°42	6°17	16° 7	19°24	4°53	27°30	7°28	8°59	7°50	7° 9	26° 3	W 4
T 5	12 54 4	15°25'50	2 ₽ 35	11°45	27°50	6°48	16°11	19°23	4°56	27°32	7°29	8°52	7°47	7°15	26° 7	T 5
F 6	12 58 0	16°24'47	17°34	10°58	28°58	7°19	16°16	19°21	4°58	27°34	7°31	8°42	7°44	7°22	26°10	F 6
S 7	13 1 57	17°23'43	2 M 22	10°13	0 Ⅱ 5	7°49	16°21	19°20	5° 1	27°37	7°32	8°32	7°41	7°29	26°13	S 7
S 8	13 5 53	18°22'36	16°50	9°31	1°12	8°20	16°26	19°18	5° 4	27°39	7°33	8°22	7°38	7°35	26°16	S 8
M 9	13 9 50	19°21'27	0 ∡ 753	8°52	2°19	8°50	16°31	19°17	5° 6	27°41	7°34	8°13	7°34	7°42	26°19	M 9
T 10	13 13 47	20°20'17	14°27	8°17	3°26	9°20	16°36	19°16	5° 9	27°43	7°36	8° 5	7°31	7°49	26°22	T 10
W11	13 17 43	21°19'05	27°33	7°47	4°33	9°50	16°42	19°15	5°12	27°45	7°37	8° 1	7°28	7°55	26°25	W11
T 12	13 21 40	22°17'51	10 궁 13	7°21	5°40	10°19	16°47	19°14	5°15	27°47	7°38	7°59	7°25	8° 2	26°28	T 12
F 13	13 25 36	23°16'36	22°33	7° 0	6°46	10°49	16°53	19°13	5°17	27°49	7°40	7°D58	7°22	8° 9	26°30	F 13
S 14	13 29 33	24°15'18	4≈36	6°44	7°52	11°18	16°59	19°12	5°20	27°51	7°41	7°R58	7°19	8°15	26°33	S 14
S 15	13 33 29	25°13'59	16°29	6°33	8°58	11°47	17° 5	19°12	5°23	27°53	7°42	7°58	7°15	8°22	26°36	S 15
M16	13 37 26	26°12'38	28°16	6°28	10° 3	12°16	17°11	19°11	5°26	27°56	7°44	7°56	7°12	8°29	26°38	M16
T 17	13 41 22	27°11'16	10) 4	6°D27	11° 9	12°45	17°18	19°11	5°29	27°58	7°45	7°52	7° 9	8°35	26°41	T 17
W18	13 45 19	28° 9'52	21°55	6°32	12°14	13°13	17°24	19°10	5°32	28° 0	7°46	7°46	7° 6	8°42	26°44	W18
T 19	13 49 16	29° 8'26	3 ℃ 53	6°42	13°19	13°42	17°31	19°10	5°35	28° 2	7°48	7°36	7° 3	8°49	26°46	T 19
F 20	13 53 12	0 ප 6'58	16° 2	6°57	14°24	14°10	17°38	19°D10	5°38	28° 4	7°49	7°25	6°59	8°55	26°49	F 20
S 21	13 57 9	1° 5'28	28°21	7°16	15°28	14°38	17°45	19°10	5°41	28° 6	7°51	7°11	6°56	9° 2	26°51	S 21
S 22	14 1 5	2° 3'57	10852	7°40	16°32	15° 5	17°52	19°10	5°44	28° 8	7°52	6°58	6°53	9° 9	26°53	S 22
M23	14 5 2	3° 2'23	23°35	8° 8	17°36	15°32	17°59	19°11	5°47	28°10	7°53	6°45	6°50	9°15	26°56	M23
T 24	14 8 58	4° 0'48	6 Ⅱ 29	8°40	18°40	15°59	18° 6	19°11	5°50	28°12	7°55	6°34	6°47	9°22	26°58	T 24
W25	14 12 55	4°59'11	19°35	9°17	19°44	16°26	18°14	19°11	5°53	28°13	7°56	6°26	6°44	9°29	27° 0	W25
T 26	14 16 51	5°57'31	2952	9°57	20°47	16°53	18°22	19°12	5°56	28°15	7°57	6°20	6°40	9°35	27° 2	T 26
F 27	14 20 48	6°55'50	16°21	10°41	21°50	17°19	18°29	19°13	6° 0	28°17	7°59	6°18	6°37	9°42	27° 4	F 27
S 28	14 24 45	7°54'07	0 Ω 3	11°28	22°52	17°45	18°37	19°13	6° 3	28°19	8° 0	6°17	6°34	9°49	27° 6	S 28
S 29	14 28 41	8°52'21	13°58	12°19	23°54	18°11	18°45	19°14	6° 6	28°21	8° 1	6°17	6°31	9°55	27° 8	S 29
M30	14 32 38	9 8 50'34	28 N 7	13 Y 13	24∏56	18 ප 36	18954	19 Ω 15	6 I I 9	28 米 23	8 8 3	6≈16	6≈28	10 米 2	27≈10	M30

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	t ·	decl	decl	decl	decl la	at
S 1	4n33	19n50	0n29	8n39	3n 0	20n18	1n44	23 s39	0s17	22n55	0n25	16n20	1n25	21n 2	0s 5	2s12	1 s15	1s 6 15	5 s 5 6 18	8s 0	18 s 17	6 s43	7s 9	6n 6
M 2	4 56	14 42	0 s47	8 12	2 51	20 38	1 48	23 39	0 18	22 55	0 25	16 20	1 25		0 5	2 11	1 15	1 6 15	5 56 18	8 0	18 18	6 39	7 7	6 7
T 3	5 19	8 38	2 2	7 43	2 39	20 58	1 51	23 40	0 20	22 55	0 25	16 21	1 25	21 3	0 5	2 10	1 15	1 5 15	5 55 18	8 0	18 19	6 36	7 6	6 7
W 4	5 42	2 1	3 10	7 13	2 27			23 40		22 54	0 25		1 25		0 5		1 15	1 5 15		-		6 33	7 5	6 7
T 5	6 5	4 s 4 6	4 5	6 42	2 14	21 37		23 40		22 54	0 25	16 22	1 25		0 5	2 8	1 15	1 4 15	5 55 18	8 3	18 20	6 30	7 3	6 7
F 6		11 15	4 43	6 10				23 40		22 53	0 25		1 25		0 5			1 4 15			-	6 27	7 2	6 8
S 7	6 50	17 0	5 1	5 38	1 44	22 13	2 5	23 40	0 27	22 52	0 25	16 23	1 25	21 4	0 5	2 6	1 15	1 3 15	5 55 18	8 9	18 22	6 23	7 1	6 8
S 8	7 13	21 39	4 59	5 7	1 28	22 31	2 8	23 40	0 28	22 52	0 25	16 23	1 25	21 5	0 5	2 6	1 16	1 3 15	5 55 18	8 11	18 23	6 20	7 0	6 8
M 9	7 35	24 54	4 40	4 37	1 12	22 48	2 12	23 40	0 30	22 51	0 25	16 23	1 25	21 5	0 5	2 5	1 16	1 2 15	5 55 18	8 14	18 24	6 17	6 58	6 8
T 10	7 57	26 36	4 4	4 8	0 55			23 40		22 51	0 25		1 25		0 5	2 4	1 16	1 1 15		-	18 24	6 14	6 57	6 9
W11	8 19	26 43	3 17	3 41	0 39	23 20		23 39	0 34	22 50	0 25	16 24	1 25	21 6	0 5	2 3	1 16	1 1 15	5 54 18	8 17	18 25	6 11	6 56	6 9
T 12	8 41	25 25	2 22	3 16	0 22	23 35		23 39		22 49	0 25	-	1 25			2 2	1 16	1 0 15			18 26	6 8	6 55	6 9
F 13		22 54	1 21	2 52	0 6	23 50		23 38		22 49	0 25		1 24		0 5	2 1	1 16	1 0 15			18 27	6 4	6 54	6 9
S 14	9 25	19 25	0 18	2 32	0s10	24 4	2 27	23 38	0 39	22 48	0 25	16 25	1 24	21 8	0 5	2 1	1 16	0 59 15	5 54 18	8 17	18 28	6 1	6 52	6 10
S 15	9 46	15 12	0n45	2 13	0 25	24 17	2 30	23 37	0 41	22 47	0 25	16 25	1 24	21 8	0 5	2 0	1 16	0 59 15	5 54 18	8 17	18 28	5 58	6 51	6 10
M16	10 8	10 26	1 46	1 58	0 40	24 30	2 33	23 37	0 43	22 46	0 25	16 25	1 24	21 9	0 5	1 59	1 16	0 58 15	5 54 18	8 18	18 29	5 55	6 50	6 10
T 17	10 29	5 19	2 41	1 45	0 54	24 42	2 36	23 36	0 45	22 46	0 25	16 25	1 24	21 10	0 5	1 58	1 16	0 58 15	5 54 18	8 19	18 30	5 52	6 49	6 11
W18	10 50		3 30	1 34	1 7	24 54	2 39	23 35	0 48	22 45	0 25	16 25	1 24	21 10	0 5	1 57	1 16	0 58 15	5 54 18	8 21	18 31	5 48	6 48	6 11
T 19	11 11	5 23	4 10	1 26				23 35		22 44		16 25		21 11	0 5		1 16	0 57 15			18 32	5 45	6 47	6 11
F 20	11 31	10 37	4 40	1 21	1 32	25 16		23 34		22 43	0 26	16 25		21 11	0 5	1 56	1 16	0 57 15	5 54 18	8 26	18 32	5 42	6 46	6 11
S 21	11 52	15 30	4 56	1 18	1 43	25 25	2 46	23 33	0 54	22 42	0 26	16 25	1 24	21 12	0 5	1 55	1 16	0 56 15	5 54 18	8 29	18 33	5 39	6 45	6 12
S 22	12 12	19 50	4 59	1 18	1 54	25 35	2 49	23 32	0 56	22 41	0 26	16 25	1 24	21 12	0 5	1 54	1 16	0 56 15	5 54 18	8 33	18 34	5 36	6 43	6 12
M23	12 32	23 19	4 47	1 20	2 4	25 43	2 51	23 31	0 58	22 40	0 26	16 25	1 24	21 13	0 5	1 54	1 16	0 55 15	5 53 18	8 36	18 35	5 33	6 42	6 12
T 24	12 52	25 41	4 21	1 24	2 13	25 51	2 53	23 30	1 1	22 39	0 26	16 25	1 24	21 13	0 5	1 53	1 16	0 55 15	5 53 18	8 39	18 36	5 29	6 41	6 13
W25	13 12	26 42	3 40	1 31	2 21	25 59	2 56	23 29	1 3	22 38	0 26	16 24	1 24	21 14	0 5	1 52	1 16	0 54 15	5 53 18	8 41	18 36	5 26	6 40	6 13
T 26	13 31	26 12	2 47	1 40	2 28	26 5	2 58	23 28	1 5	22 37	0 26	16 24	1 24	21 14	0 5	1 51	1 16	0 54 15	5 53 18	8 42	18 37	5 23	6 39	6 13
F 27	13 50	24 10	1 43	1 51	2 35	26 12	3 0	23 27	1 8	22 36	0 26	16 24	1 24	21 15	0 5	1 51	1 16	0 53 15	5 53 18	8 43	18 38	5 20	6 38	6 14
S 28	14 9	20 42	0 33	2 4	2 41	26 17	3 1	23 26	1 10	22 35	0 26	16 24	1 23	21 16	0 5	1 50	1 16	0 53 15	5 53 18	8 43	18 39	5 17	6 37	6 14
S 29	14 28	16 0	0s41	2 19	2 46	26 22	3 3	23 25	1 13	22 34	0 26	16 23	1 23	21 16	0 5	1 49	1 16	0 53 15	5 53 18	8 43	18 40	5 13	6 36	6 14
M30	14n47	10n22	1 s53	2n36	2s51	26n26	3n 5	23 s24	1 s 1 5	22n33	0n26	16n23	1n23	21n17	0s 5	1 s49	1 s 1 6	0s52 15	5 s 5 3 1 8	8 s43	18 s40	5 s 1 0	6 s 3 5	6n15

Julian Day Number = 2400501.5, Delta T = 8.97 sec Ecliptic obliquity = $23^{\circ}27'33$, Nutation = $0^{\circ}00'13$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}47'20$, Lahiri = $21^{\circ}54'20$

MAY 1860 00:00 UT

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T 1	14 36 34	10848'44	12 m 29	14 Y 10	25 II 58	19ට 1	1995 2	19 Ω 16	6 Ⅱ 12	28) 25	8 8 4	6°R14	6≈25	10) 9	27≈12	T 1
W 2	14 40 31	11°46'52	27° 1	15°10	26°59	19°26	19°10	19°17	6°16	28°26	8° 6	6≈ 9	6°21	10°15	27°14	W 2
T 3	14 44 27	12°44'58	11 ≏ 39	16°13	28° 0	19°50	19°19	19°19	6°19	28°28	8° 7	6° 1	6°18	10°22	27°16	T 3
F 4	14 48 24	13°43'03	26°16	17°19	29° 0	20°15	19°27	19°20	6°22	28°30	8° 8	5°51	6°15	10°29	27°18	F 4
S 5	14 52 20	14°41'05	10 M .46	18°27	0ම 0	20°38	19°36	19°22	6°26	28°32	8°10	5°40	6°12	10°35	27°19	S 5
S 6	14 56 17	15°39'07	25° 0	19°39	1° 0	21° 2	19°45	19°23	6°29	28°33	8°11	5°29	6° 9	10°42	27°21	S 6
M 7	15 0 14	16°37'06	8 才 54	20°52	1°59	21°25	19°54	19°25	6°32	28°35	8°12	5°18	6° 5	10°49	27°22	M 7
T 8	15 4 10	17°35'04	22°25	22° 8	2°58	21°48	20° 3	19°27	6°36	28°37	8°14	5°10	6° 2	10°55	27°24	T 8
W 9	15 8 7	18°33'01	5 云 30	23°27	3°57	22°11	20°12	19°29	6°39	28°38	8°15	5° 5	5°59	11° 2	27°25	W 9
T 10	15 12 3	19°30'56	18°11	24°48	4°55	22°33	20°22	19°31	6°42	28°40	8°16	5° 1	5°56	11° 9	27°27	T 10
F 11	15 16 0	20°28'50	0≈33	26°11	5°53	22°55	20°31	19°33	6°46	28°41	8°18	5°D 0	5°53	11°15	27°28	F 11
S 12	15 19 56	21°26'43	12°38	27°37	6°50	23°16	20°41	19°35	6°49	28°43	8°19	5° 0	5°50	11°22	27°29	S 12
S 13	15 23 53	22°24'35	24°33	29° 4	7°46	23°37	20°50	19°37	6°53	28°44	8°20	5°R 1	5°46	11°29	27°30	S 13
M14	15 27 49	23°22'25	6 ¥ 23	0 8 34	8°43	23°57	21° 0	19°40	6°56	28°46	8°22	5° 0	5°43	11°35	27°31	M14
T 15	15 31 46	24°20'14	18°13	2° 7	9°38	24°18	21°10	19°42	7° 0	28°47	8°23	4°57	5°40	11°42	27°32	T 15
W16	15 35 43	25°18'02	0 Υ 7	3°41	10°33	24°37	21°20	19°45	7° 3	28°49	8°24	4°52	5°37	11°49	27°33	W16
T 17	15 39 39	26°15'48	12°11	5°18	11°28	24°57	21°30	19°48	7° 7	28°50	8°26	4°45	5°34	11°56	27°34	T 17
F 18	15 43 36	27°13'34	24°27	6°56	12°22	25°15	21°40	19°50	7°10	28°52	8°27	4°35	5°31	12° 2	27°35	F 18
S 19	15 47 32	28°11'18	6 8 58	8°37	13°15	25°34	21°50	19°53	7°14	28°53	8°28	4°24	5°27	12° 9	27°36	S 19
S 20	15 51 29	29° 9'01	19°44	10°21	14° 8	25°52	22° 0	19°56	7°17	28°54	8°30	4°13	5°24	12°16	27°37	S 20
M21	15 55 25	0Ⅱ 6'43	2∏46	12° 6	15° 1	26° 9	22°11	19°59	7°21	28°56	8°31	4° 2	5°21	12°22	27°38	M21
T 22	15 59 22	1° 4'23	16° 1	13°53	15°52	26°26	22°21	20° 3	7°24	28°57	8°32	3°53	5°18	12°29	27°38	T 22
W23	16 3 18	2° 2'03	29°29	15°43	16°43	26°42	22°32	20° 6	7°28	28°58	8°33	3°46	5°15	12°36	27°39	W23
T 24	16 7 15	2°59'41	1395 8	17°35	17°33	26°58	22°42	20° 9	7°31	29° 0	8°35	3°42	5°11	12°42	27°39	T 24
F 25	16 11 12	3°57'17	26°56	19°29	18°23	27°13	22°53	20°13	7°35	29° 1	8°36	3°40	5° 8	12°49	27°40	F 25
S 26	16 15 8	4°54'52	10 Ω 51	21°25	19°12	27°28	23° 4	20°16	7°38	29° 2	8°37	3°D40	5° 5	12°56	27°40	S 26
S 27	16 19 5	5°52'26	24°52	23°23	20° 0	27°42	23°15	20°20	7°42	29° 3	8°38	3°41	5° 2	13° 2	27°40	S 27
M28	16 23 1	6°49'58	8 m 59	25°23	20°47	27°56	23°26	20°24	7°45	29° 4	8°40	3°R41	4°59	13° 9	27°41	M28
T 29	16 26 58	7°47'29	23°11	27°25	21°33	28° 9	23°37	20°28	7°49	29° 5	8°41	3°40	4°56	13°16	27°41	T 29
W30	16 30 54	8°44'58	7 <u>₽</u> 26	29°29	22°19	28°22	23°48	20°31	7°52	29° 6	8°42	3°37	4°52	13°22	27°41	W30
T 31	16 34 51	9∏42'26	21 ≏ 40	1 Ⅱ 35	2399 3	28 궁 34	239559	20 Ω 35	7 II 56	29 米 7	8 8 43	3≈32	4≈49	13 ∺ 29	27≈41	T 31

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	decl	decl lat	decl lat	decl lat de	l lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
T 1 W 2	15n 5 15 23	4n 8 2s59 2s24 3 54		5 26n30 3n 6 23 si 8 26 33 3 8 23 2				21n17 0s 5 21 18 0 4	1 s48 1 s16 1 47 1 16		18 s44 18 s41 18 45 18 42	5s 7 5 4	6s34 6n15 6 34 6 15
T 3 F 4 S 5	15 41 15 58 16 15	8 49 4 34 14 45 4 56 19 48 4 59	4 0 3 2		1 1 26	22 28 0 26	16 21 1 23	21 18 0 4 21 19 0 4 21 20 0 4	1 47 1 16 1 46 1 16 1 45 1 16	0 50 15 53	18 47 18 43 18 49 18 44 18 52 18 44	4 58	6 33 6 16 6 32 6 16 6 31 6 16
S 6 M 7 T 8	16 49	23 37 4 44 25 56 4 11 26 39 3 25	5 19 3 3	3 26 39 3 12 23 3 26 40 3 13 23 2 26 39 3 14 23	8 1 34	22 25 0 26	16 19 1 23	21 20 0 4 21 21 0 4 21 21 0 4	1 45 1 16 1 44 1 16 1 43 1 16	0 49 15 53	18 55 18 45 18 57 18 46 18 59 18 47	4 48	6 30 6 17 6 29 6 17 6 28 6 17
W 9 T 10 F 11	17 22 17 37 17 53	23 41 1 28 20 26 0 24	6 19 3 1 6 50 2 59 7 23 2 56	1 26 38 3 14 23 9 26 36 3 14 23 6 26 34 3 15 23	6 1 40 1 6 1 43 1 5 1 46	22 22 0 26 22 21 0 26 22 19 0 26	16 18 1 23 16 17 1 23 16 16 1 23	21 22 0 4 21 22 0 4 21 23 0 4	1 43 1 16 1 42 1 17 1 42 1 17	0 49 15 53 0 48 15 53 0 48 15 53	19 2 18 48 19 2 18 49	4 35	6 28 6 18 6 27 6 18 6 26 6 18
S 12 S 13 M14 T 15		16 23 0n40 11 45 1 42 6 43 2 39 1 28 3 28	8 31 2 49 9 7 2 45	5 26 24 3 14 23	4 1 52 3 3 1 55 3	22 17 0 26 22 15 0 26	16 15 1 22 16 14 1 22	21 24 0 4 21 24 0 4 21 25 0 4 21 25 0 4	1 41 1 17 1 40 1 17 1 40 1 17 1 39 1 17	0 47 15 54 0 47 15 54 0 47 15 54 0 46 15 54	19 2 18 51 19 2 18 51	4 29 4 26	6 25 6 19 6 25 6 19 6 24 6 19 6 23 6 20
W16 T 17 F 18	19 6 19 20 19 33	3n52 4 9 9 7 4 40 14 6 4 58	10 20 2 34 10 58 2 28 11 37 2 22	4 26 15 3 14 23 8 26 10 3 13 23 2 26 4 3 12 23	2 2 1 2 2 5 2 2 8 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	22 12 0 26 22 11 0 26 22 9 0 26	16 12 1 22 16 11 1 22 16 10 1 22	21 26 0 4 21 27 0 4 21 27 0 4	1 39 1 17 1 38 1 17 1 38 1 17	0 46 15 54 0 46 15 54 0 45 15 54	19 4 18 53 19 6 18 54 19 8 18 55	4 19 4 16 4 13	6 22 6 20 6 22 6 20 6 21 6 21
S 19 S 20 M21 T 22	19 59 20 11	22 22 4 52 25 4 4 26	12 55 2 7 13 35 1 59	9 25 44 3 8 23	2 2 15 2 2 18	22 6 0 27 22 4 0 27	16 8 1 22 16 7 1 22		1 37 1 17 1 37 1 17 1 36 1 17	0 45 15 54 0 45 15 54	19 11 18 55 19 13 18 56 19 16 18 57	4 7 4 3	6 20 6 22 6 19 6 22
W23 T 24 F 25	20 23 20 35 20 46 20 57	26 19 2 52 24 35 1 47	14 15 1 51 14 56 1 42 15 36 1 33 16 17 1 23	2 25 28 3 5 23 3 25 19 3 3 23	2 2 25 3 2 29 3	22 1 0 27 21 59 0 27	16 5 1 22 16 4 1 22	21 30 0 4		0 44 15 54	19 18 18 58 19 20 18 58 19 21 18 59 19 21 19 0	3 57 3 54	6 19 6 22 6 18 6 23 6 18 6 23 6 17 6 23
		16 55 0s38	16 57 1 14		4 2 36	21 55 0 27	16 2 1 22	21 32 0 4 21 32 0 4	1 34 1 17	0 43 15 55 0 43 15 55	19 21 19 1	3 47	6 17 6 24 6 16 6 24
T 29	21 28 21 38 21 47	0s52 3 53	18 55 0 43	3 24 41 2 52 23 3 24 31 2 49 23 2 24 20 2 46 23	7 2 48	21 50 0 27	15 58 1 21	21 33 0 4 21 34 0 4 21 34 0 4	1 33 1 17 1 33 1 17 1 32 1 17	0 43 15 55 0 42 15 55 0 42 15 55	19 21 19 3	_	6 16 6 24 6 16 6 25 6 15 6 25
T 31	21n55	13s 5 5s 0	20n 9 0s21	1 24n 9 2n42 23 si	0 2s56	21n46 0n27	15n55 1n21	21n35 0s 4	1s32 1s17	0s42 15s55	19 s23 19 s 5	3 s 3 1	6s15 6n26

Julian Day Number = 2400531.5, Delta T = 8.97 sec Ecliptic obliquity = 23°27'32, Nutation = 0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}47'24$, Lahiri = $21^{\circ}54'24$

JUNE 1860 00:00 UT

Day	Sid.t	0	D	Ϋ́	φ	ð	4	ħ)∤(卉	Р	n	Ω	Ç	, k	Day
F 1	16 38 48	10 Ⅲ 39'53	5 M .51	3 Ⅱ 42	239947	28 ප 45	249510	20Ω40	7 耳 59	29 米 9	8 8 45	3°R25	4≈46	13) (36	27°R41	F 1
S 2	16 42 44	11°37'18	19°54	5°51	24°29	28°56	24°22	20°44	8° 3	29° 9	8°46	3≈17	4°43	13°42	27≈41	S 2
S 3	16 46 41	12°34'43	3 ∡ 744	8° 0	25°11	29° 6	24°33	20°48	8° 6	29°10	8°47	3° 8	4°40	13°49	27°41	S 3
M 4	16 50 37	13°32'07	17°18	10°11	25°52	29°16	24°45	20°52	8°10	29°11	8°48	3° 1	4°37	13°56	27°41	M 4
T 5	16 54 34	14°29'30	0 云 34	12°22	26°31	29°24	24°56	20°57	8°13	29°12	8°49	2°55	4°33	14° 2	27°41	T 5
W 6	16 58 30	15°26'52	13°29	14°34	27° 9	29°33	25° 8	21° 1	8°17	29°13	8°50	2°51	4°30	14° 9	27°40	W 6
T 7	17 2 27	16°24'13	26° 6	16°46	27°46	29°40	25°19	21° 6	8°20	29°14	8°52	2°49	4°27	14°16	27°40	T 7
F 8	17 6 23	17°21'34	8 ≈ 25	18°58	28°22	29°47	25°31	21°10	8°24	29°15	8°53	2°D49	4°24	14°22	27°39	F 8
S 9	17 10 20	18°18'54	20°31	21°10	28°57	29°53	25°43	21°15	8°27	29°15	8°54	2°50	4°21	14°29	27°39	S 9
S 10	17 14 17	19°16'14	2 ∺ 27	23°21	29°30	29°59	25°55	21°20	8°31	29°16	8°55	2°52	4°17	14°36	27°38	S 10
M11	17 18 13	20°13'33	14°18	25°31	0 Ω 2	0≈ 4	26° 7	21°25	8°34	29°17	8°56	2°53	4°14	14°42	27°38	M11
T 12	17 22 10	21°10'52	26° 9	27°40	0°33	0° 8	26°19	21°30	8°38	29°18	8°57	2°R53	4°11	14°49	27°37	T 12
W13	17 26 6	22° 8'10	8 Υ 6	29°48	1° 2	0°11	26°31	21°35	8°41	29°18	8°58	2°52	4° 8	14°56	27°36	W13
T 14	17 30 3	23° 5'28	20°12	1954	1°29	0°13	26°43	21°40	8°45	29°19	8°59	2°49	4° 5	15° 2	27°36	T 14
F 15	17 33 59	24° 2'46	2 8 33	3°59	1°55	0°15	26°55	21°45	8°48	29°19	9° 0	2°44	4° 2	15° 9	27°35	F 15
S 16	17 37 56	25° 0'03	15°11	6° 2	2°20	0°16	27° 7	21°50	8°52	29°20	9° 1	2°38	3°58	15°16	27°34	S 16
S 17	17 41 52	25°57'20	28° 8	8° 3	2°42	0°R17	27°19	21°55	8°55	29°20	9° 2	2°32	3°55	15°22	27°33	S 17
M18	17 45 49	26°54'37	11 Ⅱ 24	10° 2	3° 3	0°16	27°32	22° 1	8°58	29°21	9° 3	2°26	3°52	15°29	27°32	M18
T 19	17 49 46	27°51'53	24°59	11°59	3°22	0°15	27°44	22° 6	9° 2	29°21	9° 4	2°22	3°49	15°36	27°31	T 19
W20	17 53 42	28°49'09	8950	13°53	3°40	0°13	27°56	22°12	9° 5	29°22	9° 5	2°18	3°46	15°43	27°30	W20
T 21	17 57 39	29°46'25	22°54	15°46	3°55	0°10	28° 9	22°17	9° 9	29°22	9° 6	2°16	3°43	15°49	27°29	T 21
F 22	18 1 35	09643'40	7 N 7	17°36	4° 8	0° 7	28°21	22°23	9°12	29°23	9° 7	2°D16	3°39	15°56	27°27	F 22
S 23	18 5 32	1°40'54	21°24	19°25	4°19	0° 2	28°34	22°29	9°15	29°23	9° 8	2°17	3°36	16° 3	27°26	S 23
S 24	18 9 28	2°38'08	5 m 43	21°11	4°29	29 궁 57	28°46	22°34	9°19	29°23	9° 9	2°18	3°33	16° 9	27°25	S 24
M25	18 13 25	3°35'21	20° 0	22°54	4°36	29°52	28°59	22°40	9°22	29°23	9°10	2°20	3°30	16°16	27°23	M25
T 26	18 17 21	4°32'34	4 ₽ 13	24°36	4°40	29°45	29°12	22°46	9°25	29°24	9°10	2°R20	3°27	16°23	27°22	T 26
W27	18 21 18	5°29'46	18°19	26°15	4°43	29°38	29°24	22°52	9°28	29°24	9°11	2°20	3°23	16°29	27°20	W27
T 28	18 25 15	6°26'58	2 M .17	27°52	4°R43	29°30	29°37	22°58	9°32	29°24	9°12	2°18	3°20	16°36	27°19	T 28
F 29	18 29 11	7°24'09	16° 6	29°27	4°41	29°22	29°50	23° 4	9°35	29°24	9°13	2°15	3°17	16°43	27°17	F 29
S 30	18 33 8	8921'20	29 M 43	1Ω 0	4Ω36	29 궁 12	0 Ω 2	23 Ω 10	9 Ⅲ 38	29 米 24	9 8 14	2≈12	3≈14	16) (49	27≈16	S 30

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F 1 S 2	22n 4 22 12	18s17 22 26		20n44 21 18		23n58 23 46		23 s21 23 23		21n44 21 42	0n27 0 27	15n54 15 53		21n35 21 36		1 s32 1 31	1 s17 1 18	0s42 15 s5 0 42 15 5	-		3 s28 3 25	6s14 6 14	6n26 6 26
S 3 M 4 T 5 W 6	22 27 22 33	25 14 26 30 26 12 24 28	3 40 2 45	21 50 22 21 22 49 23 15	0 21 0 32	_	2 25 2 21	23 25 23 27 23 29 23 31	3 12 3 16	21 40 21 38 21 36	0 27	15 48			0 4 0 4	1 31 1 31 1 30 1 30	1 18 1 18 1 18 1 18	0 41 15 5 0 41 15 5 0 41 15 5	6 19 30	19 8 19 8	3 22 3 19 3 16 3 12	6 14 6 14 6 13 6 13	6 27 6 27 6 27 6 28
T 7 F 8 S 9	22 46 22 51	24 28 21 32 17 41 13 10	0 36 0n30	23 39		22 45 22 32	2 10 2 4	23 34 23 37 23 40	3 24 3 29	21 34 21 32 21 30 21 28	0 27 0 27	15 45	1 21 1 21 1 21 1 21	21 39 21 39	0 4 0 4	1 30 1 30 1 29 1 29	1 18 1 18 1 18 1 18	-	7 19 33 7 19 33	19 10 19 11	3 9 3 6 3 3	6 13 6 13 6 13	6 28 6 28 6 29
S 10 M11 T 12 W13 T 14 F 15 S 16	23 19		3 26 4 9 4 42 5 3 5 10	25 4 25 8 25 10	1 30 1 36 1 42 1 46	21 53 21 39 21 26	1 46 1 39 1 31 1 24 1 16	23 53 23 57 24 1	3 42 3 46 3 51 3 55 4 0	21 26 21 24 21 21 21 19 21 17 21 15 21 12	0 27 0 27 0 28 0 28 0 28	15 37 15 36 15 34	1 21 1 21 1 21 1 21 1 21 1 21 1 21	21 43 21 43	0 4 0 4 0 4 0 4	1 29 1 29 1 28 1 28 1 28 1 28 1 28	1 18 1 18 1 18 1 18 1 18 1 18 1 18	0 40 15 5 0 39 15 5	7 19 32 8 19 32 8 19 32 8 19 33 8 19 34	19 13 19 14 19 14 19 15 19 16	3 0 2 56 2 53 2 50 2 47 2 44 2 41	6 12 6 12 6 12 6 12 6 12 6 12 6 12	6 29 6 29 6 30 6 30 6 30 6 31 6 31
S 17 M18 T 19 W20 T 21 F 22 S 23	23 25 23 26 23 27 23 28 23 27	25 14 22 21	3 9 2 4 0 51 0 s26	25 6 25 0 24 52 24 41 24 29 24 14 23 58	1 55 1 57 1 58 1 58	20 5 19 52 19 39 19 25	0 41 0 32 0 22 0 12	24 9 24 14 24 19 24 23 24 29 24 34 24 39	4 13 4 18 4 22 4 27 4 32	21 5 21 3	0 28 0 28 0 28 0 28 0 28	15 25	1 20 1 20	21 45	0 4 0 4 0 4 0 4 0 4	1 28 1 27 1 27 1 27 1 27 1 27 1 27	1 18 1 18 1 18 1 18 1 19 1 19 1 19	0 39 15 5 0 39 15 5 0 39 16	9 19 38 9 19 39 9 19 40	19 18 19 19 19 20 19 20 19 21	2 37 2 34 2 31 2 28 2 25 2 21 2 18	6 12 6 12 6 12 6 12 6 12 6 12 6 13	6 31 6 32 6 32 6 32 6 33 6 33 6 33
S 24 M25 T 26 W27 T 28 F 29 S 30		0 24 5 s 5 4 11 5 2	3 52 4 37 5 4 5 14 5 5	23 40 23 20 23 0 22 37 22 14 21 49 21n24	1 51 1 48 1 44 1 40 1 34	18 35 18 22 18 10	0 21 0 33 0 45 0 57 1 10	25 8	4 45 4 50 4 54 4 58 5 3	20 53 20 50 20 48 20 45 20 43 20 40 20n37	0 28 0 28 0 28 0 28 0 28 0 28 0 28 0n28	15 14 15 12 15 10 15 8	1 20 1 20 1 20 1 20 1 20	21 49 21 49	0 4 0 4 0 4 0 4		1 19 1 19 1 19 1 19 1 19 1 19 1 s19		1 19 40 1 19 40	19 23 19 24 19 25 19 26 19 26	2 15 2 12 2 9 2 6 2 2 1 59 1 s56	6 13 6 13 6 13 6 13 6 14 6 14 6 14	6 34 6 34 6 35 6 35 6 35 6 35

Julian Day Number = 2400562.5, Delta T = 8.96 sec Ecliptic obliquity = $23^{\circ}27'32$, Nutation = $0^{\circ}00'13$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}47'28$, Lahiri = $21^{\circ}54'28$

JULY 1860 00:00 UT

Day	Sid.t	\odot	D	φ	φ	♂	4	ħ)ф(卉	Р	ያ	Ω	Ç	ę,	Day
S 1	18 37 4	99518'31	13 ∡ 7 7	2 Ω 30	4°R29	29°R 2	0Ω15	23 Ω 17	9 Ⅱ 41	29) 24	9814	2°R 9	3≈11	16 ¥ 56	27°R14	S 1
M 2	18 41 1	10°15'42	26°16	3°58	$4\Omega_{20}$	28 궁 52	0°28	23°23	9°44	29°R24	9°15	2≈ 6	3° 8	17° 3	27≈12	M 2
T 3	18 44 57	11°12'52	9 ਰ 11	5°23	4° 8	28°41	0°41	23°29	9°48	29°24	9°16	2° 3	3° 4	17° 9	27°10	T 3
W 4	18 48 54	12°10'03	21°51	6°47	3°54	28°29	0°54	23°35	9°51	29°24	9°17	2° 2	3° 1	17°16	27° 8	W 4
T 5	18 52 51	13° 7'14	4≈16	8° 7	3°37	28°17	1° 7	23°42	9°54	29°24	9°17	2°D 2	2°58	17°23	27° 6	T 5
F 6	18 56 47	14° 4'24	16°29	9°26	3°18	28° 4	1°20	23°48	9°57	29°24	9°18	2° 2	2°55	17°29	27° 4	F 6
S 7	19 0 44	15° 1'35	28°31	10°42	2°57	27°50	1°33	23°55	10° 0	29°24	9°19	2° 3	2°52	17°36	27° 2	S 7
S 8	19 4 40	15°58'47	10 ∺ 26	11°55	2°34	27°37	1°46	24° 1	10° 3	29°24	9°19	2° 5	2°49	17°43	27° 0	S 8
M 9	19 8 37	16°55'59	22°17	13° 6	2° 9	27°22	1°59	24° 8	10° 6	29°23	9°20	2° 6	2°45	17°50	26°58	M 9
T 10	19 12 33	17°53'11	4 Υ 8	14°14	1°41	27° 7	2°12	24°14	10° 9	29°23	9°21	2° 7	2°42	17°56	26°56	T 10
W11	19 16 30	18°50'23	16° 5	15°20	1°12	26°52	2°25	24°21	10°12	29°23	9°21	2°R 8	2°39	18° 3	26°54	W11
T 12	19 20 26	19°47'37	28°12	16°22	0°41	26°37	2°38	24°28	10°15	29°23	9°22	2° 7	2°36	18°10	26°52	T 12
F 13	19 24 23	20°44'50	10832	17°22	0° 9	26°21	2°51	24°34	10°18	29°22	9°22	2° 7	2°33	18°16	26°49	F 13
S 14	19 28 19	21°42'05	23°11	18°19	29935	26° 5	3° 4	24°41	10°21	29°22	9°23	2° 6	2°29	18°23	26°47	S 14
S 15	19 32 16	22°39'20	6 Ⅱ 12	19°12	29° 0	25°48	3°17	24°48	10°23	29°22	9°23	2° 5	2°26	18°30	26°45	S 15
M16	19 36 13	23°36'36	19°35	20° 2	28°24	25°32	3°31	24°55	10°26	29°21	9°24	2° 3	2°23	18°36	26°42	M16
T 17	19 40 9	24°33'52	39522	20°49	27°48	25°15	3°44	25° 2	10°29	29°21	9°24	2° 3	2°20	18°43	26°40	T 17
W18	19 44 6	25°31'09	17°30	21°33	27°11	24°58	3°57	25° 9	10°32	29°20	9°25	2° 2	2°17	18°50	26°37	W18
T 19	19 48 2	26°28'27	1 Q 56	22°12	26°33	24°41	4°10	25°16	10°34	29°20	9°25	2°D 2	2°14	18°56	26°35	T 19
F 20	19 51 59	27°25'45	16°33	22°48	25°56	24°24	4°23	25°23	10°37	29°19	9°26	2° 2	2°10	19° 3	26°32	F 20
S 21	19 55 55	28°23'03	1 m) 17	23°20	25°19	24° 8	4°37	25°30	10°40	29°19	9°26	2° 2	2° 7	19°10	26°30	S 21
S 22	19 59 52	29°20'22	16° 0	23°47	24°42	23°51	4°50	25°37	10°42	29°18	9°27	2° 3	2° 4	19°16	26°27	S 22
M23	20 3 49	0Ω 17'41	0 ჲ 35	24°11	24° 6	23°34	5° 3	25°44	10°45	29°17	9°27	2° 3	2° 1	19°23	26°25	M23
T 24	20 7 45	1°15'01	14°59	24°30	23°31	23°18	5°16	25°51	10°47	29°17	9°27	2° 3	1°58	19°30	26°22	T 24
W25	20 11 42	2°12'21	29° 8	24°44	22°57	23° 2	5°30	25°59	10°50	29°16	9°28	2° 3	1°55	19°36	26°19	W25
T 26	20 15 38	3° 9'41	13 M 0	24°53	22°24	22°46	5°43	26° 6	10°52	29°15	9°28	2° 3	1°51	19°43	26°16	T 26
F 27	20 19 35	4° 7'02	26°35	24°R57	21°53	22°31	5°56	26°13	10°55	29°14	9°28	2° 3	1°48	19°50	26°14	F 27
S 28	20 23 31	5° 4'24	9 ∡ 752	24°57	21°23	22°16	6°10	26°20	10°57	29°14	9°28	2° 3	1°45	19°57	26°11	S 28
S 29	20 27 28	6° 1'46	22°55	24°51	20°55	22° 1	6°23	26°28	11° 0	29°13	9°29	2° 4	1°42	20° 3	26° 8	S 29
M30	20 31 24	6°59'09	5 전 42	24°40	20°29	2 <u>1</u> °47	6°36	26°35	11° 2	29°12	9°29	2° 4	1°39	20°10	26° 5	M30
T 31	20 35 21	$7\Omega 56'32$	18 ਰ 17	24 \O 23	209 5	21 る 33	6 Ω 49	26 Ω 42	11 I I 4	29 米 11	9829	2≈ 4	1≈35	20 米 17	26≈ 2	T 31

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	decl	decl	lat	decl	lat	decl	lat dec	lat	decl	lat	decl	lat	decl	lat	decl lat	t	decl lat	decl	decl	decl	decl	lat
S 1 M 2		26 s 19 26 29		20n57 20 30		17n36 17 25	1 s36 25 s2 1 49 25 3		20n35 20 32	0n28 0 29			21n51 21 52	0s 4 0 4		l s19 l 19	0s39 16s 2 0 39 16 2	19 s42 19 43		1 s53 1 50	6s14 6 15	6n36 6 36
T 3 W 4	22 59 22 54	22 36	0 56		1 8	17 15 17 5	2 3 25 3 2 17 25 4	5 23	20 29 20 26	0 29		1 20 1 20	21 53	0 4	1 27 1	1 19 1 19	0 39 16 3	19 43	19 30	1 46 1 43	6 15 6 15	6 36
T 5 F 6 S 7	-	19 0 14 39 9 47	0n12 1 19 2 21		0 52 0 43 0 34	16 46	2 31 25 5 2 45 25 5 2 59 26	5 31	20 24 20 21 20 18	0 29	14 53 14 51 14 49		21 53 21 54 21 54	0 4	1 27 1	1 19 1 19 1 19	0 39 16 3	19 43 19 43 19 43	19 31	1 40 1 37 1 34	6 16 6 16 6 17	6 37 6 37 6 37
S 8 M 9	22 30 22 23	4 38 0n40	3 17	17 37 17 8	0 24	16 28 16 20	3 13 26 1 3 27 26 1	5 38	20 15	0 29	14 47	1 20	21 55 21 55	0 4	1 27 1	1 19	0 39 16 4	19 43 19 42	19 33	1 31	6 17	6 37 6 38
W11	22 16 22 8	5 55 11 0	5 4	16 38 16 8	0 4 0s 7	16 5	3 41 26 2 3 55 26 2	5 48	20 9	0 29	14 40	1 20	21 56 21 56	0 4	1 28 1	1 19 1 20	0 39 16 4 0 40 16 5	19 42 19 42	19 34 19 35	1 24 1 21	6 18 6 19	6 38 6 38
	22 0 21 51 21 42		5 13	15 39 15 10 14 41	0 18 0 30 0 42		4 9 26 3 4 23 26 4 4 36 26 4	5 54		0 29 0 29 0 29	14 36	1 20	21 56 21 57 21 57	-	1 28 1	1 20 1 20 1 20	0 40 16 5	19 42 19 42 19 43	19 36	1 18 1 15 1 12	6 19 6 20 6 20	6 38 6 39 6 39
S 15 M16	21 33 21 24	25 40 26 36		14 13 13 46	0 54 1 7	15 40 15 34	4 49 26 5 5 2 26 5			0 29 0 29	_	1 20 1 20	21 58 21 58		-	1 20		19 43 19 43		1 8 1 5	6 21 6 22	6 39 6 39
	21 3		1 20	13 19 12 53	1 19 1 32	15 25	5 14 27 5 25 27 1		19 46	0 30 0 30	14 24	1 20 1 20	21 59	0 4	1 29 1	1 20	0 40 16 7	19 43 19 43	19 40	1 2 0 59	6 22 6 23	6 39 6 40
T 19 F 20 S 21	20 53 20 41 20 30	14 37	1 s20	12 27 12 3 11 40	1 45 1 59 2 12	15 21 15 18 15 15	5 36 27 1 5 47 27 2 5 56 27 2	6 11		0 30 0 30 0 30		1 20 1 20 1 20	22 0	0 4	1 30 1	1 20 1 20 1 20	0 41 16 7	19 43 19 43 19 43	19 41	0 56 0 53 0 49	6 24 6 24 6 25	6 40 6 40 6 40
S 22 M23	20 18 20 6	2 8 4s22		11 19 10 58		15 12	6 5 27 2 6 14 27 3	6 14	19 33 19 30	0 30	14 15 14 12	1 20 1 20		-		1 20		19 43 19 43	-	0 46 0 43	6 26 6 26	6 40
T 24 W25		10 34 16 6	5 3	10 40 10 23		15 8	6 21 27 3 6 28 27 4	6 16	19 27	0 30	14 10	1 20 1 20 1 20	22 1	0 4	1 31 1	1 20	0 41 16 9	19 43 19 43 19 43	19 44	0 40 0 37	6 27 6 28	6 41
T 26 F 27	19 28 19 15	24 5	4 49		3 18 3 31	15 6	6 34 27 4 6 40 27 4	6 18	19 21 19 18	0 30 0 30	14 3	1 20 1 20	22 2	0 4	1 32 1	1 20	0 42 16 10		19 46	0 34 0 30	6 29 6 29	6 41 6 41
S 28 S 29	18 47	26 5 26 36	3 21	9 43 9 34		15 6	6 44 27 5 6 48 27 5	6 19	19 14	0 30	13 58	1 20	22 3	0 4	1 33 1	1 20	0 42 16 10	19 43	19 48	0 27	6 30	6 41
M30 T 31	18 32 18n18	25 41 23 s28	2 21 1 s 1 6	9 27 9n23	4 5 4s15	15 7 15n 8	6 52 27 5 6 s 54 27 s 5		19 8 19n 5	0 31 0n31	13 55 13n53	1 20 1n20	22 3 22n 4			1 20 1 s20	0 43 16 10 0s43 16s11			0 21 0s18	6 32 6 s 3 3	6 41 6n41

Julian Day Number = 2400592.5, Delta T = 8.96 sec Ecliptic obliquity = $23^{\circ}27'31$, Nutation = $0^{\circ}00'15$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}47'32$, Lahiri = $21^{\circ}54'32$

AUGUST 1860 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(卉	Р	n	v	Ç	Š	Day
W 1	20 39 18	8 Ω 53'56	0≈39	24°R 2	19°R44	21°R20	7 Ω 3	26 Ω 50	11 I 7	29°R10	9 8 29	2°R 5	1≈32	20) 23	25°R59	W 1
T 2	20 43 14	9°51'21	12°52	23€36	199524	21궁 7	7°16	26°57	11° 9	29 米 9	9°29	2≈ 4	1°29	20°30	25≈57	T 2
F 3	20 47 11	10°48'47	24°55	23° 5	19° 7	20°55	7°29	27° 4	11°11	29° 8	9°29	2° 4	1°26	20°37	25°54	F 3
S 4	20 51 7	11°46'14	6 ¥ 52	22°30	18°52	20°43	7°42	27°12	11°13	29° 7	9°30	2° 3	1°23	20°43	25°51	S 4
S 5	20 55 4	12°43'42	18°44	21°51	18°40	20°33	7°56	27°19	11°15	29° 6	9°30	2° 1	1°20	20°50	25°48	S 5
M 6	20 59 0	13°41'12	0 Ƴ 35	21° 8	18°30	20°22	8° 9	27°27	11°17	29° 5	9°30	2° 0	1°16	20°57	25°45	M 6
T 7	21 2 57	14°38'42	12°26	20°23	18°22	20°13	8°22	27°34	11°19	29° 4	9°30	1°58	1°13	21° 3	25°42	T 7
W 8	21 6 53	15°36'14	24°23	19°35	18°17	20° 4	8°35	27°42	11°21	29° 3	9°30	1°57	1°10	21°10	25°39	W 8
T 9	21 10 50	16°33'47	6 8 28	18°47	18°14	19°56	8°48	27°49	11°23	29° 2	9°R30	1°56	1° 7	21°17	25°36	T 9
F 10	21 14 47	17°31'22	18°46	17°58	18°D14	19°49	9° 2	27°57	11°25	29° 1	9°30	1°D56	1° 4	21°24	25°33	F 10
S 11	21 18 43	18°28'58	1 II 22	17° 9	18°16	19°42	9°15	28° 4	11°27	29° 0	9°30	1°56	1° 1	21°30	25°30	S 11
S 12	21 22 40	19°26'36	14°19	16°23	18°20	19°36	9°28	28°12	11°29	28°59	9°30	1°57	0°57	21°37	25°27	S 12
M13	21 26 36	20°24'16	27°40	15°38	18°26	19°31	9°41	28°20	11°30	28°57	9°30	1°58	0°54	21°44	25°24	M13
T 14	21 30 33	21°21'56	119528	14°57	18°35	19°27	9°54	28°27	11°32	28°56	9°30	2° 0	0°51	21°50	25°21	T 14
W15	21 34 29	22°19'39	25°42	14°20	18°46	19°24	10° 7	28°35	11°34	28°55	9°29	2°R 0	0°48	21°57	25°17	W15
T 16	21 38 26	23°17'22	10Ω 19	13°49	18°59	19°21	10°20	28°42	11°35	28°54	9°29	2° 0	0°45	22° 4	25°14	T 16
F 17	21 42 22	24°15'08	25°13	13°23	19°13	19°19	10°34	28°50	11°37	28°52	9°29	1°59	0°41	22°10	25°11	F 17
S 18	21 46 19	25°12'54	10 M 18	13° 3	19°30	19°18	10°47	28°58	11°38	28°51	9°29	1°57	0°38	22°17	25° 8	S 18
S 19	21 50 16	26°10'42	25°24	12°50	19°49	19°D18	11° 0	29° 5	11°40	28°50	9°29	1°54	0°35	22°24	25° 5	S 19
M20	21 54 12	27° 8'30	10 ₽ 21	12°D45	20° 9	19°19	11°13	29°13	11°41	28°49	9°29	1°51	0°32	22°30	25° 2	M20
T 21	21 58 9	28° 6'21	25° 2	12°47	20°31	19°21	11°26	29°20	11°43	28°47	9°28	1°48	0°29	22°37	24°59	T 21
W22	22 2 5	29° 4'12	9 M 21	12°56	20°55	19°23	11°39	29°28	11°44	28°46	9°28	1°45	0°26	22°44	24°56	W22
T 23	22 6 2	0Mg 2'05	23°16	13°14	21°21	19°26	11°51	29°36	11°45	28°44	9°28	1°44	0°22	22°51	24°53	T 23
F 24	22 9 58	0°59'58	6 ₮ 48	13°40	21°48	19°30	12° 4	29°43	11°47	28°43	9°27	1°D44	0°19	22°57	24°50	F 24
S 25	22 13 55	1°57'54	19°56	14°13	22°17	19°35	12°17	29°51	11°48	28°42	9°27	1°45	0°16	23° 4	24°47	S 25
S 26	22 17 51	2°55'50	2 ප් 45	14°55	22°47	19°41	12°30	29°59	11°49	28°40	9°27	1°46	0°13	23°11	24°44	S 26
M27	22 21 48	3°53'48	15°17	15°44	23°19	19°48	12°43	0 ™ 6	11°50	28°39	9°26	1°48	0°10	23°17	24°41	M27
T 28	22 25 45	4°51'47	27°36	16°40	23°52	19°55	12°56	0°14	11°51	28°37	9°26	1°R49	0° 7	23°24	24°38	T 28
W29	22 29 41	5°49'47	9≈45	17°43	24°26	20° 3	13° 8	0°21	11°52	28°36	9°26	1°49	0° 3	23°31	24°35	W29
T 30	22 33 38	6°47'49	21°46	18°53	25° 2	20°12	13°21	0°29	11°53	28°34	9°25	1°47	0° 0	23°37	24°32	T 30
F 31	22 37 34	7 m 45'53	3) (41	20Ω 9	25939	20 궁 21	13 Ω 34	0 ₯ 37	11 Ⅱ 54	28) 33	9 8 25	1≈43	29 궁 57	23) (44	24≈29	F 31

Day	0	D	ğ	·	ð	4	ħ)Å(卉	Р	v v	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
W 1 T 2	18n 3 17 48			33 15 10 6 57 2		19n 1 0n31 18 58 0 31		22n 4 0s 4 22 4 0 4	1 s34 1 s21 1 34 1 21		19 s43 19 s50 19 43 19 51	0s15 0 11	6s34 6n41 6 35 6 41
F 3 S 4	17 32 17 16	11 17 2 3 6 12 3 1	-	40 15 12 6 57 2 45 15 14 6 57			13 45 1 20 13 43 1 20			-	19 43 19 51 19 43 19 52	0 8 0 5	6 35 6 42 6 36 6 42
S 5 M 6 T 7	17 0 16 44 16 27	0 55 3 51 4n21 4 30 9 29 4 58	9 51 4 5		28 5 6 15	18 48 0 31 18 45 0 31 18 41 0 31	13 38 1 20	22 5 0 4	1 36 1 21	0 45 16 13	19 44 19 53 19 44 19 54	-	6 37 6 42 6 38 6 42 6 39 6 42
W 8 T 9	16 10 15 53	14 18 5 13 18 38 5 15	10 20 4 5 10 38 4 4	51 15 25 6 51 2 49 15 28 6 49	28 6 6 12 28 5 6 11	18 38 0 31 18 35 0 31	13 32 1 20 13 30 1 20	22 6 0 4 22 6 0 4	1 37 1 21 1 37 1 21	0 45 16 13 0 45 16 14	19 44 19 54 19 45 19 55 19 45 19 56	0 4 0 7 0 11	6 40 6 42 6 41 6 42
F 10 S 11				44 15 31 6 46 1 37 15 34 6 42	28 4 6 8		13 27 1 21 13 25 1 21	22 7 0 4	1 38 1 21 1 38 1 21		19 45 19 56 19 45 19 57	0 14 0 17	6 42 6 42 6 43 6 42
S 12 M13 T 14	15 0 14 42 14 23		-		28 3 6 6 28 2 6 4 28 1 6 2	18 21 0 32	13 20 1 21	22 7 0 4 22 7 0 4 22 7 0 4	1 39 1 21 1 39 1 21 1 40 1 21	0 47 16 15	19 45 19 58 19 44 19 58 19 44 19 59	0 20 0 23 0 26	6 44 6 42 6 45 6 42 6 46 6 42
W15 T 16 F 17	14 5 13 46 13 27	16 56 0s46	13 11 3 3	54 15 47 6 25 2 39 15 50 6 20 2 24 15 54 6 15 2	27 57 5 58	18 11 0 32	13 12 1 21	22 8 0 4 22 8 0 4 22 8 0 4	1 40 1 21 1 41 1 21 1 41 1 21	0 47 16 15 0 48 16 16 0 48 16 16	19 44 20 0	0 29 0 33 0 36	6 47 6 42 6 48 6 42 6 49 6 42
S 18	13 8	4 42 3 15	13 55 3	7 15 57 6 9	27 53 5 53	18 4 0 32	13 7 1 21	22 8 0 4	1 42 1 21	0 48 16 16	19 45 20 2	0 39	6 50 6 42
S 19 M20 T 21	12 48 12 28 12 9	8 34 4 52	14 15 2 5 14 33 2 3 14 50 2	33 16 3 5 58		17 57 0 33		22 9 0 4	1 42 1 21 1 43 1 21 1 44 1 21		19 45 20 3 19 46 20 3 19 47 20 4	0 42 0 45 0 48	6 51 6 42 6 52 6 42 6 53 6 41
W22 T 23	11 28		15 17 1 3	39 16 11 5 39	27 39 5 40	17 46 0 33	12 56 1 21 12 53 1 21	22 9 0 4		0 50 16 18	19 47 20 5 19 47 20 5	0 51 0 55	6 55 6 41 6 56 6 41
F 24 S 25	10 47	26 33 3 29		3 16 15 5 26	27 32 5 34	17 43 0 33 17 39 0 33	12 48 1 21	22 9 0 4 22 10 0 4		0 51 16 18		0 58 1 1	6 57 6 41 6 58 6 41
S 26 M27 T 28		24 4 1 29	15 38 0 4 15 40 0 3 15 38 0 1	30 16 18 5 13	27 24 5 28	17 32 0 33	12 46 1 21 12 43 1 22 12 40 1 22		1 47 1 21	0 51 16 19 0 52 16 19 0 52 16 19	19 47 20 8	1 4 1 7 1 10	6 59 6 41 7 0 6 41 7 1 6 41
W29 T 30	9 23 9 1	17 8 0n43	15 33 On	1 1 16 20 4 59 1 15 16 21 4 52	27 16 5 22 27 12 5 19	17 25 0 33	12 38 1 22 12 35 1 22	22 10 0 4 22 10 0 4	_	0 52 16 20		1 13 1 16	7 2 6 41 7 3 6 40
F 31	8n40	7 s36 2n45	15n14 0n2	n28 16n21 4s45	27s 7 5s16	17n18 0n34	12n33 1n22	22n11 0s 4	1 s50 1 s22	0s53 16s20	19 s48 20 s11	1n20	7 s 4 6n40

Julian Day Number = 2400623.5, Delta T = 8.95 sec Ecliptic obliquity = $23^{\circ}27'31$, Nutation = $0^{\circ}00'16$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}47'36$, Lahiri = $21^{\circ}54'37$

SEPTEMBER 1860 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(并	В	S.	Ω	Ç	ę,	Day
S 1	22 41 31	8 m 43'58	15) 34	21£30	26917	20 궁 32	13 Ω 46	0 m /44	11 II 55	28°R31	9°R24	1°R38	29 궁 54	23 米 51	24°R26	S 1
S 2	22 45 27	9°42'05	27°25	22°57	26°56	20°43	13°59	0°52	11°56	28 米 30	9824	1≈32	29°51	23°57	24≈23	S 2
M 3	22 49 24	10°40'13	9 Υ 16	24°29	27°37	20°55	14°11	0°59	11°56	28°28	9°23	1°24	29°47	24° 4	24°20	M 3
T 4	22 53 20	11°38'24	21°10	26° 5	28°18	21° 7	14°24	1° 7	11°57	28°26	9°23	1°17	29°44	24°11	24°17	T 4
W 5	22 57 17	12°36'36	3 8 8	27°45	29° 1	21°21	14°36	1°14	11°58	28°25	9°22	1°11	29°41	24°18	24°14	W 5
T 6	23 1 13	13°34'51	15°14	29°28	29°44	21°35	14°49	1°22	11°58	28°23	9°22	1° 5	29°38	24°24	24°11	T 6
F 7	23 5 10	14°33'07	27°31	1 m 14	0 Ω 29	21°49	15° 1	1°29	11°59	28°22	9°21	1° 2	29°35	24°31	24° 9	F 7
S 8	23 9 7	15°31'26	10 I I 4	3° 2	1°14	22° 4	15°13	1°37	11°59	28°20	9°21	1°D 0	29°32	24°38	24° 6	S 8
S 9	23 13 3	16°29'47	22°55	4°51	2° 0	22°20	15°25	1°44	12° 0	28°18	9°20	1° 0	29°28	24°44	24° 3	S 9
M10	23 17 0	17°28'10	699 9	6°42	2°48	22°37	15°38	1°52	12° 0	28°17	9°19	1° 1	29°25	24°51	24° 0	M10
T 11	23 20 56	18°26'35	19°49	8°35	3°36	22°54	15°50	1°59	12° 1	28°15	9°19	1° 3	29°22	24°58	23°58	T 11
W12	23 24 53	19°25'02	3 Ω 57	10°27	4°25	23°12	16° 2	2° 7	12° 1	28°14	9°18	1°R 3	29°19	25° 4	23°55	W12
T 13	23 28 49	20°23'31	18°31	12°21	5°14	23°30	16°14	2°14	12° 1	28°12	9°17	1° 2	29°16	25°11	23°52	T 13
F 14	23 32 46	21°22'02	3 Mp 28	14°14	6° 5	23°49	16°26	2°21	12° 1	28°10	9°17	0°58	29°12	25°18	23°50	F 14
S 15	23 36 43	22°20'35	18°40	16° 7	6°56	24° 9	16°38	2°29	12° 1	28° 9	9°16	0°53	29° 9	25°25	23°47	S 15
S 16	23 40 39	23°19'11	3 ₾ 58	18° 0	7°47	24°29	16°50	2°36	12° 2	28° 7	9°15	0°45	29° 6	25°31	23°45	S 16
M17	23 44 36	24°17'47	19°10	19°53	8°40	24°50	17° 1	2°43	12°R 2	28° 5	9°15	0°37	29° 3	25°38	23°42	M17
T 18	23 48 32	25°16'26	4M 7	21°45	9°33	25°12	17°13	2°51	12° 2	28° 4	9°14	0°29	29° 0	25°45	23°40	T 18
W19	23 52 29	26°15'07	18°40	23°36	10°27	25°33	17°25	2°58	12° 1	28° 2	9°13	0°23	28°57	25°51	23°37	W19
T 20	23 56 25	27°13'49	2 √ 45	25°27	11°21	25°56	17°36	3° 5	12° 1	28° 0	9°12	0°18	28°53	25°58	23°35	T 20
F 21	0 0 22	28°12'33	16°20	27°17	12°16	26°19	17°48	3°12	12° 1	27°59	9°11	0°15	28°50	26° 5	23°32	F 21
S 22	0 4 18	29°11'19	29°29	29° 6	13°11	26°42	17°59	3°19	12° 1	27°57	9°11	0°D15	28°47	26°11	23°30	S 22
S 23	0 8 15	0 ₽ 10'07	12 る 13	0 ჲ 54	14° 7	27° 6	18°11	3°27	12° 1	27°55	9°10	0°15	28°44	26°18	23°28	S 23
M24	0 12 11	1° 8'56	24°39	2°41	15° 4	27°31	18°22	3°34	12° 0	27°54	9° 9	0°R16	28°41	26°25	23°26	M24
T 25	0 16 8	2° 7'47	6≈49	4°28	16° 1	27°56	18°33	3°41	12° 0	27°52	9° 8	0°16	28°38	26°32	23°23	T 25
W26	0 20 5	3° 6'39	18°50	6°13	16°58	28°21	18°44	3°48	12° 0	27°50	9° 7	0°14	28°34	26°38	23°21	W26
T 27	0 24 1	4° 5'33	0) €44	7°58	17°56	28°47	18°55	3°55	11°59	27°49	9° 6	0°10	28°31	26°45	23°19	T 27
F 28	0 27 58	5° 4'30	12°35	9°42	18°55	29°13	19° 6	4° 2	11°59	27°47	9° 5	0° 3	28°28	26°52	23°17	F 28
S 29	0 31 54	6° 3'28	24°25	11°24	19°54	29°40	19°17	4° 8	11°58	27°45	9° 5	29 궁 53	28°25	26°58	23°15	S 29
S 30	0 35 51	7 ₾ 2'28	6 Ƴ 17	13 ♀ 6	20 Q 53	0≈ 7	19 Ω 28	4 Mp 15	11 II 57	27) 44	9 8 4	29 る 42	28 궁 22	27 米 5	23≈13	S 30

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	decl	decl lat	dec	l lat	decl	lat de	cl lat	decl	lat	decl	lat	decl	lat	decl l	at	decl la	at	decl	decl	decl	decl	lat
S 1	8n18	2 s23 3	3n35 14n5	9 0n41	16n21	4 s 3 8 2 7 s	2 5 s 1 3	17n15	0n34	12n30	1n22	22n11	0s 4	1 s50	1 s22	0 s 5 4 1	16s20	19 s49	20s11	1n23	7s 5	6n40
S 2	7 56	2n54 4	17 14 4	2 0 52	16 21	4 31 26	57 5 9	17 11	0 34	12 27	1 22	22 11	0 4	1 51	1 22	0 54 1	16 21	19 50	20 12	1 26	7 7	6 40
M 3	7 34		47 14 2			4 24 26			0 34	-	1 22		0 4	1 52	1 22	0 54 1	-		-	1 29	7 8	6 40
T 4	,	12 57 5				4 17 26			0 34		1 22		-	1 52	1 22	0 55 1				1 32	7 9	6 40
W 5		17 24 5				4 10 26			0 34			22 11		1 53	1 22	0 55 1	-		-	1 35	7 10	6 39
T 6 F 7	6 28	21 11 5 24 7 4		1 1 26 9 1 32		4 3 26 3 56 26			0 34 0 35		1 22 1 23			1 53 1 54	1 22 1 22	0 56 1 0 56 1	-		-	1 38 1 41	7 11 7 12	6 39 6 39
S 8		25 56 4				3 49 26		16 50		12 14		22 11	-	-	1 22	0 50 1	-		-	1 41	7 13	6 39
S 9	5 20	26 27 3	3 11 11 1	9 1 42	16 8	3 42 26	19 4 47	16 47	0 35	12 9	1 23	22 11	0 4	1 55	1 22	0 57 1	16 23	19 57	20 17	1 48	7 14	6 39
M10	4 57	25 29 2	10 10 4	1 1 45	16 4	3 35 26		16 43	0 35		1 23		0 3	1 56	1 22	0 57 1				1 51	7 15	6 38
T 11	4 34	22 59 1	0 10	1 1 47	16 0	3 28 26	7 4 41	16 40	0 35	12 4	1 23	22 11	0 3	1 57	1 22	0 58 1	16 23	19 57	20 18	1 54	7 17	6 38
W12	4 12	19 2 0	s16 9 1	9 1 48	15 56	3 20 26	1 4 37	16 36	0 35	12 1	1 23	22 12	0 3	1 57	1 22	0 58 1	16 23	19 56	20 19	1 57	7 18	6 38
T 13	3 49	13 49 1	. 33 8 3			3 13 25				11 59	1 23			1 58	1 22	0 59 1				2 0	7 19	6 38
F 14	3 26		2 45 7 5			3 6 25				11 56	1 23			1 59	1 22		-	19 57		2 3	7 20	6 37
S 15	3 2	1 0 3	3 47 7	8 1 48	15 40	2 59 25	41 4 28	16 26	0 36	11 54	1 23	22 12	0 3	1 59	1 22	1 0 1	16 24	19 59	20 21	2 6	7 21	6 37
S 16	2 39	5 s 4 5	33 6 2	3 1 47	15 33	2 53 25	34 4 24	16 22	0 36	11 51	1 23	22 12	0 3	2 0	1 22	1 0 1	16 24	20 0	20 21	2 9	7 22	6 37
M17	2 16	12 8 5				2 46 25				11 49	1 24			2 1	1 22		16 25	-	20 22	2 12	7 23	6 37
T 18		17 41 5	-	-		2 39 25		16 16		11 46	1 24			2 1	1 22		16 25		20 23	2 16	7 24	6 36
W19		22 2 4	-	3 1 39		2 32 25		16 12	0 36		1 24			2 2	1 22		16 25		20 23	2 19	7 25	6 36
T 20 F 21	1 6 0 43		19 3 1 3 3 2 2			2 25 25 2 18 24	6 4 12 58 4 8		0 36 0 36		1 24			2 3 2 3	1 22 1 22		16 25 16 25		20 24 20 25	2 22 2 25	7 26 7 27	6 36 6 35
S 22	0 43		2 37 1 4			2 18 24 24			0 30		1 24				1 22		16 26		20 25	2 28	7 28	6 35
S 23			35 0 5			2 5 24			0 37		1 24				1 22	-	16 26		20 26	2 31	7 29	6 35
M24	0 27	-	30 0	7 1 18		1 58 24	-	15 55	0 37	_	1 24			2 5	1 22	-	16 26		20 27	2 34	7 30	6 35
T 25	0 51		n35 0s4			1 52 24		15 52	0 37	_	1 25		0 3	2 6	1 22		16 26		20 27	2 37	7 31	6 34
W26	1 14	13 39 1	37 1 2	7 1 7	14 5	1 45 24		15 49	0 37	11 26	1 25		0 3	2 7	1 22	1 4 1	16 26	20 7	20 28	2 40	7 32	6 34
T 27	1 38	8 49 2	2 35 2 1	4 1 1	13 54	1 39 24		15 45	0 37	11 24	1 25	22 11	0 3	2 7	1 22	1 5 1	16 27	20 8	20 28	2 43	7 33	6 34
F 28	2 1	3 41 3	3 25 3	0 0 55	13 42	1 33 24		15 42	0 38		1 25		0 3	2 8	1 22	1 5 1	16 27	20 9	20 29	2 46	7 34	6 33
S 29	2 24	1n33 4	6 3 4	6 0 49	13 30	1 26 23	53 3 43	15 39	0 38	11 19	1 25	22 11	0 3	2 9	1 22	1 6 1	16 27	20 11	20 30	2 50	7 35	6 33
S 30	2 s48	6n44 4	ln37 4s3	2 0n43	13n17	1 s20 23 s	44 3 s40	15n36	0n38	11n17	1n25	22n11	0s 3	2s 9	1 s22	1 s 6 1	16s27	20 s14	20 s30	2n53	7 s 3 6	6n33

Julian Day Number = 2400654.5, Delta T = 8.95 sec Ecliptic obliquity = $23^{\circ}27'32$, Nutation = $0^{\circ}00'16$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}47'41$, Lahiri = $21^{\circ}54'41$

OCTOBER 1860 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ) / (¥	Р	r	Ω	Ç	o k	Day
M 1	0 39 47	8 요 1'30	18 Y 12	14 <u>₽</u> 47	21 Ω 53	0≈34	19 Ω 39	4 Mp 22	11°R57	27°R42	9°R 3	29°R29	28 궁 18	27) 12	23°R11	M 1
T 2	0 43 44	9° 0'34	0812	16°28	22°53	1° 2	19°50	4°29	11 II 56	27) (40	9 8 2	29 궁 16	28°15	27°18	23≈10	T 2
W 3	0 47 40	9°59'41	12°17	18° 7	23°54	1°30	20° 0	4°36	11°55	27°39	9° 1	29° 4	28°12	27°25	23° 8	W 3
T 4	0 51 37	10°58'50	24°29	19°46	24°55	1°59	20°11	4°42	11°54	27°37	9° 0	28°54	28° 9	27°32	23° 6	T 4
F 5	0 55 34	11°58'01	6 Ⅱ 52	21°23	25°57	2°28	20°21	4°49	11°53	27°36	8°59	28°46	28° 6	27°39	23° 4	F 5
S 6	0 59 30	12°57'14	19°26	23° 0	26°59	2°57	20°31	4°55	11°52	27°34	8°58	28°42	28° 3	27°45	23° 3	S 6
S 7	1 3 27	13°56'29	2916	24°37	28° 1	3°27	20°42	5° 2	11°52	27°32	8°57	28°39	27°59	27°52	23° 1	S 7
M 8	1 7 23	14°55'47	15°24	26°12	29° 3	3°57	20°52	5°8	11°50	27°31	8°56	28°D39	27°56	27°59	23° 0	M 8
T 9	1 11 20	15°55'08	28°55	27°47	0Mp 6	4°27	21° 2	5°15	11°49	27°29	8°55	28°R39	27°53	28° 5	22°58	T 9
W10	1 15 16	16°54'30	$12\Omega 50$	29°21	1° 9	4°58	21°12	5°21	11°48	27°28	8°54	28°39	27°50	28°12	22°57	W10
T 11	1 19 13	17°53'55	27°11	0 M 54	2°13	5°29	21°22	5°28	11°47	27°26	8°53	28°36	27°47	28°19	22°55	T 11
F 12	1 23 9	18°53'22	11 m 56	2°27	3°17	6° 0	21°31	5°34	11°46	27°25	8°52	28°31	27°44	28°26	22°54	F 12
S 13	1 27 6	19°52'52	26°59	3°59	4°21	6°32	21°41	5°40	11°45	27°23	8°51	28°23	27°40	28°32	22°53	S 13
S 14	1 31 3	20°52'23	12 ≏ 12	5°30	5°26	7° 4	21°50	5°46	11°43	27°22	8°50	28°13	27°37	28°39	22°52	S 14
M15	1 34 59	21°51'57	27°24	7° 1	6°30	7°36	22° 0	5°52	11°42	27°20	8°49	28° 2	27°34	28°46	22°50	M15
T 16	1 38 56	22°51'32	12 M 25	8°31	7°35	8° 8	22° 9	5°58	11°41	27°19	8°47	27°51	27°31	28°52	22°49	T 16
W17	1 42 52	23°51'10	27° 5	10° 0	8°41	8°41	22°18	6° 4	11°39	27°17	8°46	27°41	27°28	28°59	22°48	W17
T 18	1 46 49	24°50'49	11 ~ 18	11°29	9°46	9°14	22°27	6°10	11°38	27°16	8°45	27°33	27°24	29° 6	22°47	T 18
F 19	1 50 45	25°50'31	25° 1	12°57	10°52	9°48	22°36	6°16	11°36	27°14	8°44	27°28	27°21	29°12	22°46	F 19
S 20	1 54 42	26°50'14	8 ਰ 15	14°24	11°58	10°21	22°45	6°22	11°35	27°13	8°43	27°25	27°18	29°19	22°46	S 20
S 21	1 58 38	27°49'59	21° 2	15°51	13° 5	10°55	22°54	6°27	11°33	27°12	8°42	27°25	27°15	29°26	22°45	S 21
M22	2 2 3 5	28°49'45	3≈28	17°16	14°11	11°29	23° 3	6°33	11°31	27°10	8°41	27°25	27°12	29°33	22°44	M22
T 23	2 6 32	29°49'33	15°37	18°41	15°18	12° 3	23°11	6°39	11°30	27° 9	8°40	27°24	27° 9	29°39	22°43	T 23
W24	2 10 28	0 M 49'23	27°35	20° 6	16°25	12°38	23°19	6°44	11°28	27° 8	8°39	27°22	27° 5	29°46	22°43	W24
T 25	2 14 25	1°49'14	9)(27	21°29	17°32	13°12	23°28	6°50	11°26	27° 6	8°38	27°17	27° 2	29°53	22°42	T 25
F 26	2 18 21	2°49'07	21°17	22°52	18°40	13°47	23°36	6°55	11°24	27° 5	8°36	27°10	26°59	29°59	22°42	F 26
S 27	2 22 18	3°49'02	3Υ 8	24°14	19°47	14°22	23°44	7° 0	11°23	27° 4	8°35	26°59	26°56	0 Υ 6	22°41	S 27
S 28	2 26 14	4°48'59	15° 3	25°34	20°55	14°58	23°52	7° 6	11°21	27° 3	8°34	26°46	26°53	0°13	22°41	S 28
M29	2 30 11	5°48'57	27° 5	26°54	22° 3	15°33	23°59	7°11	11°19	27° 1	8°33	26°32	26°49	0°20	22°41	M29
T 30	2 34 7	6°48'58	9 8 14	28°12	23°12	16° 9	24° 7	7°16	11°17	27° 0	8°32	2 <u>6</u> °18	2 <u>6</u> °46	0°26	22°41	T 30
W31	2 38 4	7 M 49'00	21831	29M30	24 Mp 20	16≈45	24Ω14	7 m 21	11 II 15	26 米 59	8 8 31	26중 5	26 궁 43	0 Υ 33	22≈40	W31

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	decl	decl lat	decl	lat de	el lat	decl lat	decl	lat	decl	lat	decl	lat	decl l	lat	decl lat	decl	decl	decl	decl	lat
M 1 T 2	3 s11 3 34	11n42 4n56 16 15 5	5 5 s 1 7 6 1	0n36 13n 0 29 12 :	-	s35 3 s 37 26 3 34		0n38 0 38	-	-	22n11 22 11	0s 3 0 3	2 s 1 0 2 1 1	1 s22 1 22	1s 6 16s27 1 7 16 27			2n56 2 59	7 s37 7 38	6n32 6 32
W 3 T 4 F 5		23 18 4 32	7 29	0 23 12 3 0 16 12 3	21 0 56 23		15 23	0 38	11 8	1 26 1 26	22 11	0 3 0 3	2 11 2 12	1 22 1 22		20 24	20 33	3 2 3 5	7 39 7 40	6 31
S 6		26 13 3 12	8 55	0 9 12 0 2 11 :		48 3 22	15 20 15 16	0 39 0 39	11 3	1 26	22 11	0 3 0 3	2 13 2 13	1 22 1 22		20 26	20 34	3 8 3 11	7 41 7 42	6 31 6 30
S 7 M 8 T 9 W10		23 43 1 10 20 22 0s	9 37 0 10 18 1 10 59 4 11 39	0s 5 11 3 0 12 11 0 19 11 0 26 10 4	8 0 33 22 1 0 28 22	28 3 17 18 3 14		0 39 0 39 0 39 0 39	10 59 10 56	1 27	22 10	0 3 0 3	2 14 2 14 2 15 2 16	1 22 1 22 1 22 1 22	1 9 16 28 1 9 16 28 1 10 16 28 1 10 16 28	20 27 20 27	20 35 20 36	3 14 3 17 3 20 3 23	7 42 7 43 7 44 7 45	6 30 6 30 6 29 6 29
T 11 F 12 S 13	7 2 7 24 7 47	3 54 3 27	-	0 33 10 3 0 40 10 0 46 9 3	8 0 11 2	46 3 5	14 58	0 40 0 40 0 40	10 50	1 27 1 27 1 27	22 10	0 3	2 16 2 17 2 17	1 22 1 22 1 22	1 11 16 29 1 11 16 29 1 11 16 29	20 28	20 38	3 26 3 30 3 33	7 46 7 47 7 47	6 28 6 28 6 28
S 14 M15 T 16 W17 T 18 F 19 S 20	8 9 8 32 8 54 9 16 9 38 10 0 10 21	15 13 5 0 20 11 4 51 23 46 4 22 25 45 3 38 26 4 2 42	15 24 2 15 59 3 16 33	0 53 9 1 1 0 9 1 7 8 1 1 13 8 1 1 20 8 1 26 7 1 1 33 7 1	1	3 2 54 0 51 2 51 0 40 2 49 0 28 2 46	14 49 14 47 14 44 14 41	0 40 0 40 0 41 0 41 0 41 0 41 0 41	10 43 10 41 10 39 10 37 10 35	1 28 1 28 1 28 1 28	22 9 22 9 22 9 22 9 22 8	0 3 0 3 0 3	2 18 2 19 2 19 2 20 2 20 2 21 2 21	1 22 1 22 1 22 1 22 1 22 1 22 1 22	1 12 16 29 1 12 16 29 1 13 16 29 1 13 16 29 1 13 16 29 1 14 16 29 1 14 16 29	20 34 20 37 20 39 20 40 20 41	20 40 20 40 20 41 20 42 20 42	3 36 3 39 3 42 3 45 3 48 3 51 3 54	7 48 7 49 7 50 7 50 7 51 7 52 7 52	6 27 6 27 6 26 6 26 6 26 6 25 6 25
S 21 M22 T 23 W24 T 25 F 26 S 27	10 43 11 4 11 25 11 46 12 7 12 28 12 48	18 53 0n32 14 39 1 35 9 56 2 32 4 54 3 23 0n16 4 4	5 19 10 2 19 39 3 20 7	1 39 7 1 45 6 4 1 51 6 2 2 5 6 2 7 5 7 2 12 4 3	25 0 40 19 3 0 45 19 11 0 49 19 8 0 53 19	0 53	14 30	0 42 0 42 0 42 0 42 0 42 0 42 0 43	10 29 10 28 10 26 10 24 10 22	1 29 1 29 1 29 1 30 1 30	22 8 22 8 22 7 22 7 22 7 22 7	0 3 0 3 0 3 0 3 0 3 0 3 0 3	2 22 2 23 2 23 2 24 2 24 2 25 2 25	1 22 1 22 1 22 1 22 1 22 1 22 1 22	1 15 16 29 1 15 16 29 1 15 16 29 1 16 16 29 1 16 16 29 1 16 16 29 1 17 16 29	20 42 20 42 20 42 20 42 20 43 20 45	20 44 20 45 20 45 20 46 20 47	3 57 4 0 4 3 4 6 4 9 4 12 4 15	7 53 7 54 7 54 7 55 7 55 7 56 7 56	6 24 6 24 6 23 6 23 6 23 6 22 6 22
S 28 M29 T 30 W31	13 8 13 28 13 48 14 s 8	15 6 5 0 19 12 4 52	21 46	2 17 4 3 2 21 4 2 26 3 4 2 s29 3n2	8 1 4 18 14 1 7 18	25 2 20 12 2 18	14 15 14 13 14 10 14n 8	0 43 0 43	10 19 10 17 10 15 10n13	1 30 1 31	22 6	0 3 0 3	2 25 2 26 2 26 2 s27	1 22 1 22 1 22 1 s22	1 17 16 29 1 17 16 29 1 18 16 29 1 s18 16 s29	20 52 20 55	20 49 20 49	4 18 4 21 4 24 4n27	7 57 7 57 7 58 7 s58	6 21 6 21 6 20 6n20

Julian Day Number = 2400684.5, Delta T = 8.95 sec Ecliptic obliquity = $23^{\circ}27'32$, Nutation = $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}47'45$, Lahiri = $21^{\circ}54'45$

NOVEMBER 1860 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)Å(并	Р	u	Ω	Ç	, k	Day
T 1	2 42 1	8 M 49'04	3Д56	0 ∡ 745	25 m 29	17≈21	24 Ω 22	7 m)26	11°R13	26°R58	8°R30	25°R54	26 궁 40	0 Υ 40	22°R40	T 1
F 2	2 45 57	9°49'11	16°31	2° 0	26°37	17°57	24°29	7°31	11 I I1	26) (57	8 8 29	25 궁 45	26°37	0°46	22°D40	F 2
S 3	2 49 54	10°49'19	29°17	3°12	27°47	18°34	24°36	7°35	11° 9	26°56	8°27	25°40	26°34	0°53	22≈40	S 3
S 4	2 53 50	11°49'29	129515	4°23	28°56	19°10	24°43	7°40	11° 7	26°55	8°26	25°37	26°30	1° 0	22°41	S 4
M 5	2 57 47	12°49'42	25°27	5°32	0 ♀ 5	19°47	24°50	7°45	11° 5	26°53	8°25	25°D36	26°27	1° 6	22°41	M 5
T 6	3 1 43	13°49'56	8 Ω 55	6°38	1°15	20°24	24°56	7°49	11° 2	26°52	8°24	25°R37	26°24	1°13	22°41	T 6
W 7	3 5 40	14°50'13	22°43	7°42	2°24	21° 1	25° 3	7°54	11° 0	26°51	8°23	25°36	26°21	1°20	22°41	W 7
T 8	3 9 36	15°50'31	6 m 49	8°43	3°34	21°38	25° 9	7°58	10°58	26°51	8°22	25°35	26°18	1°27	22°42	T 8
F 9	3 13 33	16°50'52	21°15	9°41	4°44	22°15	25°15	8° 2	10°56	26°50	8°21	25°31	26°15	1°33	22°42	F 9
S 10	3 17 30	17°51'14	5 ≙ 57	10°34	5°54	22°53	25°21	8° 6	10°54	26°49	8°20	25°24	26°11	1°40	22°42	S 10
S 11	3 21 26	18°51'38	20°49	11°24	7° 5	23°31	25°27	8°10	10°51	26°48	8°18	25°15	26° 8	1°47	22°43	S 11
M12	3 25 23	19°52'04	5 M .44	12° 9	8°15	24° 8	25°33	8°14	10°49	26°47	8°17	25° 5	26° 5	1°53	22°44	M12
T 13	3 29 19	20°52'32	20°32	12°49	9°26	24°46	25°38	8°18	10°47	26°46	8°16	24°54	26° 2	2° 0	22°44	T 13
W14	3 33 16	21°53'02	5 √ 5	13°23	10°37	25°24	25°43	8°22	10°44	26°45	8°15	24°45	25°59	2° 7	22°45	W14
T 15	3 37 12	22°53'33	19°15	13°50	11°47	26° 2	25°49	8°26	10°42	26°45	8°14	24°38	25°55	2°14	22°46	T 15
F 16	3 41 9	23°54'06	3 る 0	14°11	12°58	26°41	25°54	8°29	10°40	26°44	8°13	24°33	25°52	2°20	22°47	F 16
S 17	3 45 5	24°54'40	16°17	14°23	14° 9	27°19	25°59	8°33	10°37	26°43	8°12	24°31	25°49	2°27	22°48	S 17
S 18	3 49 2	25°55'15	29° 9	14°R26	15°21	27°58	26° 3	8°36	10°35	26°42	8°11	24°D31	25°46	2°34	22°49	S 18
M19	3 52 59	26°55'51	11 ≈ 39	14°20	16°32	28°36	26° 8	8°40	10°32	26°42	8°10	24°32	25°43	2°40	22°50	M19
T 20	3 56 55	27°56'29	23°51	14° 3	17°43	29°15	26°12	8°43	10°30	26°41	8° 9	24°R33	25°40	2°47	22°51	T 20
W21	4 0 52	28°57'08	5)(51	13°37	18°55	29°54	26°16	8°46	10°27	26°41	8° 8	24°32	25°36	2°54	22°52	W21
T 22	4 4 48	29°57'47	17°44	12°59	20° 7	0) €33	26°20	8°49	10°25	26°40	8° 7	24°30	25°33	3° 1	22°53	T 22
F 23	4 8 45	0 ₮ 58'28	29°34	12°11	21°18	1°12	26°24	8°52	10°22	26°40	8° 6	24°26	25°30	3° 7	22°55	F 23
S 24	4 12 41	1°59'10	11 Y 27	11°12	22°30	1°51	26°28	8°55	10°20	26°39	8° 5	24°20	25°27	3°14	22°56	S 24
S 25	4 16 38	2°59'53	23°26	10° 5	23°42	2°30	26°31	8°58	10°17	26°39	8° 4	24°11	25°24	3°21	22°57	S 25
M26	4 20 34	4° 0'38	5 8 34	8°51	24°54	3° 9	26°34	9° 0	10°15	26°38	8° 3	24° 2	25°21	3°27	22°59	M26
T 27	4 24 31	5° 1'23	17°53	7°31	26° 6	3°49	26°38	9° 3	10°12	26°38	8° 2	23°52	25°17	3°34	23° 0	T 27
W28	4 28 28	6° 2'10	0П23	6° 9	27°18	4°28	26°40	9° 5	10°10	26°37	8° 1	23°43	25°14	3°41	23° 2	W28
T 29	4 32 24	7° 2'58	13° 6	4°46	28°31	5° 8	26°43	9°8	10° 7	26°37	8° 0	23°35	25°11	3°48	23° 4	T 29
F 30	4 36 21	8 % 3'47	26耳 1	3 ∡ 127	29 ≏ 43	5) (47	26 Ω 46	9 m 10	10 I I 5	26) €37	7 8 59	23 중 30	25 궁 8	3 Ƴ 54	23≈ 5	F 30

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S 4 M 5 T 6 W 7 T 8	15 24 15 42 16 0 16 18 16 36	21 5 0 1 16 55 1s10 11 46 2 19		1 17 1 26 1 0 52 1 29 1 0 27 1 32 1	17 5 2 6 16 51 2 3 16 37 2 1 16 23 1 59 16 9 1 57	13 57 0 45 13 55 0 45 13 53 0 45	10 5 1 32 10 4 1 32 10 3 1 32	22 4 0 3 22 4 0 3 22 4 0 3		1 19 16 29 1 20 16 29 1 20 16 29 1 20 16 29 1 20 16 29	21 2 20 53 21 2 20 53 21 2 20 54	4 39 4 42 4 46 4 49 4 52	8 0 6 18 8 0 6 18 8 1 6 17 8 1 6 17 8 1 6 16
F 9 S 10	16 53 17 10		24 37 2 44 24 43 2 42		5 54 1 54 5 40 1 52	13 50 0 45 13 48 0 46			2 30 1 21 2 31 1 21	1 21 16 29 1 21 16 29		4 55 4 58	8 2 6 16 8 2 6 16
S 11 M12 T 13 W14 T 15 F 16 S 17	17 43 17 59 18 15 18 31 18 46	18 7 4 57 22 17 4 33 24 57 3 52 25 57 2 56 25 18 1 52	24 48 2 40 24 51 2 36 24 52 2 32 24 51 2 27 24 48 2 20 24 43 2 13 24 35 2 3	1 42 1 43 1 2 8 1 45 1 2 34 1 47 1 3 0 1 49 1 3 26 1 51 1	5 11 1 48 4 56 1 45 4 41 1 43 4 26 1 41 4 11 1 39	13 43 0 46 13 41 0 47 13 40 0 47	9 57 1 33 9 56 1 33 9 54 1 34 9 53 1 34 9 52 1 34 9 51 1 34 9 50 1 34	22 2 0 3 22 2 0 3 22 1 0 3 22 1 0 3 22 1 0 3	2 31 1 21 2 32 1 21 2 32 1 21 2 32 1 21 2 32 1 21	1 22 16 29 1 22 16 29	21 8 20 57 21 10 20 58 21 12 20 58 21 13 20 59 21 14 20 59	5 1 5 4 5 7 5 10 5 13 5 16 5 19	8 2 6 15 8 2 6 15 8 3 6 14 8 3 6 14 8 3 6 13 8 3 6 13 8 3 6 12
S 18 M19 T 20 W21 T 22 F 23 S 24	19 29	15 51 1 30 11 13 2 30 6 14 3 23 1 5 4 6 4n 5 4 38	24 25 1 53 24 12 1 41 23 57 1 27 23 38 1 12 23 17 0 55 22 53 0 37 22 26 0 18	4 44 1 55 1 5 10 1 56 1 5 36 1 58 1 6 2 1 59 1 6 28 2 0 1	13 25 1 33 13 10 1 31 12 54 1 29 12 38 1 27 12 23 1 25	13 33 0 48 13 32 0 48 13 30 0 48		22 0 0 3 21 59 0 3 21 59 0 3	2 33 1 21 2 34 1 21 2 34 1 21 2 34 1 21		21 14 21 1 21 14 21 2 21 14 21 2 21 14 21 3 21 15 21 3	5 22 5 25 5 28 5 31 5 33 5 36 5 39	8 3 6 12 8 3 6 12 8 3 6 11 8 4 6 11 8 4 6 10 8 4 6 9
T 29		18 6 5 0 21 39 4 40 24 16 4 6 25 42 3 20	20 19 1 3	7 46 2 2 1 8 11 2 2 1 8 37 2 3 1 9 2 2 3 1	1 19 1 17 1 3 1 15 10 46 1 13	13 26 0 49 13 26 0 50	9 41 1 37 9 41 1 37 9 40 1 37 9 39 1 37	21 57 0 3	2 35 1 21	1 25 16 27 1 25 16 27		5 42 5 45 5 48 5 51 5 54 5n57	8 3 6 9 8 3 6 8 8 3 6 8 8 3 6 7 8s 3 6n 7

Julian Day Number = 2400715.5, Delta T = 8.95 sec Ecliptic obliquity = $23^{\circ}27'31$, Nutation = $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}47'49$, Lahiri = $21^{\circ}54'49$

DECEMBER 1860 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)Å(并	В	n	ß	Ç	Ŗ	Day
S 1	4 40 17	9 ∡¹ 4'38	995 7	2°R13	0 M .56	6 ∺ 27	26₽48	9 m 12	10°R 2	26°R37	7°R58	23°R27	25 궁 5	4Υ 1	23≈ 7	S 1
S 2	4 44 14	10° 5'29	22°25	1 √ 7	2° 8	7° 7	26°50	9°14	10 I I 0	26 ∺ 36	7 8 57	23°D26	25° 1	4° 8	23° 9	S 2
M 3	4 48 10	11° 6'22	5 Ω 53	0°10	3°21	7°47	26°52	9°16	9°57	26°36	7°56	23중26	24°58	4°14	23°11	M 3
T 4	4 52 7	12° 7'16	19°32	29ML24	4°34	8°27	26°54	9°18	9°55	26°36	7°55	23°28	24°55	4°21	23°13	T 4
W 5	4 56 3	13° 8'12	3 m 23	28°49	5°46	9° 7	26°56	9°20	9°52	26°36	7°54	23°29	24°52	4°28	23°15	W 5
T 6	5 0 0	14° 9'09	17°25	28°26	6°59	9°47	26°57	9°21	9°50	26°36	7°53	23°R29	24°49	4°35	23°17	T 6
F 7	5 3 57	15°10'07	1 <u>₽</u> 37	28°14	8°12	10°27	26°58	9°23	9°47	26°36	7°52	23°28	24°46	4°41	23°19	F 7
S 8	5 7 53	16°11'06	15°58	28°D12	9°25	11° 7	26°59	9°24	9°44	26°D36	7°51	23°25	24°42	4°48	23°21	S 8
S 9	5 11 50	17°12'06	0M-24	28°21	10°38	11°47	27° 0	9°25	9°42	26°36	7°51	23°21	24°39	4°55	23°23	S 9
M10	5 15 46	18°13'08	14°50	28°38	11°52	12°27	27° 1	9°27	9°39	26°36	7°50	23°15	24°36	5° 1	23°26	M10
T 11	5 19 43	19°14'10	29°11	29° 4	13° 5	13° 7	27° 1	9°28	9°37	26°36	7°49	23° 9	24°33	5° 8	23°28	T 11
W12	5 23 39	20°15'14	13 × ⁷ 21	29°38	14°18	13°48	27° 2	9°28	9°34	26°36	7°48	23° 4	24°30	5°15	23°30	W12
T 13	5 27 36	20°15'14 21°16'18	27°15	0×719	15°31	14°28	27°R 2	9°29	9°32	26°36	7°47	23° 1	24°27	5°22	23°33	T 13
F 14	5 31 32	21°10°18 22°17'23	10~~49	1° 5	16°45	15° 9	27° 2	9°30	9°30	26°37	7°47	22°58	24°23	5°28	23°35	F 14
			24° 2	-				9°31	9°30 9°27	26°37			-			
S 15	5 35 29	23°18'29	24° 2	1°57	17°58	15°49	27° 1	9°31	9°27	26°37	7°46	22°D58	24°20	5°35	23°38	S 15
S 16	5 39 26	24°19'35	6≈53	2°53	19°12	16°30	27° 1	9°31	9°25	26°37	7°45	22°58	24°17	5°42	23°40	S 16
M17	5 43 22	25°20'41	19°25	3°54	20°25	17°10	27° 0	9°32	9°22	26°37	7°44	23° 0	24°14	5°48	23°43	M17
T 18	5 47 19	26°21'48	1) (40	4°58	21°39	17°51	26°59	9°32	9°20	26°38	7°44	23° 2	24°11	5°55	23°46	T 18
W19	5 51 15	27°22'55	13°42	6° 5	22°53	18°32	26°58	9°32	9°17	26°38	7°43	23° 3	24° 7	6° 2	23°48	W19
T 20	5 55 12	28°24'02	25°37	7°15	24° 6	19°12	26°57	9°R32	9°15	26°38	7°42	23°R 4	24° 4	6° 9	23°51	T 20
F 21	5 59 8	29°25'09	7 Υ 29	8°28	25°20	19°53	26°55	9°32	9°13	26°39	7°42	23° 4	24° 1	6°15	23°54	F 21
S 22	6 3 5	0පි26'16	19°22	9°42	26°34	20°34	26°53	9°32	9°10	26°39	7°41	23° 2	23°58	6°22	23°57	S 22
S 23	6 7 1	1°27'24	1823	10°59	27°48	21°15	26°51	9°31	9° 8	26°40	7°40	23° 0	23°55	6°29	24° 0	S 23
M24	6 10 58	2°28'32	13°33	12°17	29° 1	21°55	26°49	9°31	9° 6	26°40	7°40	22°57	23°52	6°35	24° 3	M24
T 25	6 14 55	3°29'40	25°58	13°36	0 ₹ 15	22°36	26°47	9°31	9° 4	26°41	7°39	22°54	23°48	6°42	24° 6	T 25
W26	6 18 51	4°30'48	8П39	14°57	1°29	23°17	26°45	9°30	9° 1	26°42	7°39	22°51	23°45	6°49	24° 9	W26
T 27	6 22 48	5°31'56	21°36	16°19	2°43	23°58	26°42	9°29	8°59	26°42	7°38	22°48	23°42	6°56	24°12	T 27
F 28	6 26 44	6°33'04	4951	17°42	3°57	24°39	26°39	9°28	8°57	26°43	7°38	22°47	23°39	7° 2	24°15	F 28
S 29	6 30 41	7°34'13	18°22	19° 6	5°11	25°20	26°36	9°27	8°55	26°44	7°37	22°D46	23°36	7° 9	24°18	S 29
S 30	6 34 37	8°35'21	2Ω 6	20°31	6°25	26° 1	26°33	9°26	8°53	26°44	7°37	22°46	23°33	7°16	24°21	S 30
M31	6 38 34	9 ප් 36'30	16 0 2	21 × 757	7 ₹ 39	26 ¥ 42	26 Ω 29	9 m 25	8Д51	26) 45	7 8 36	22 5 47	23 ප් 29	7 Υ 23	24≈25	M31

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S 2 M 3	21 59 22 8	21 41 17 44		18 18 17 55	2 9 2 20		2 4 2 4	9 57 9 41	1 8 1 6		0 51 0 51	9 38 9 37	1 38 1 38	21 55 21 55		2 35 2 35	1 21 1 20			21 25 21 25		6 3 6 6	8 2	6 6
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F 7	22 38		4 49		2 45		2 2	8 34		13 21	0 52	9 36	1 39			2 35	1 20			21 25		6 18	8 1	6 4
S 8	22 44	11 1	5 8	17 5	2 46	12 43	2 2	8 17	0 57	13 21	0 52	9 35	1 40	21 53	0 3	2 35	1 20	1 25	16 25	21 26	21 12	6 21	8 1	6 4
S 9	-	16 26	-	17 7	2 46		2 1	8 0		13 21	0 53	9 35		21 53		2 35	1 20				21 13	6 24	8 1	6 3
M10		20 54		17 12	2 44		2 1	7 43	0 54	13 21	0 53	9 35	1 40			2 35	1 20			21 27		6 27	8 0	6 3
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T 13	23 6 23 10	25 43 25 42		17 31 17 44	2 37 2 33		1 59 1 58	7 9 6 52	0 51	13 21 13 21	0 53 0 54	9 35 9 35	1 41 1 41	_	0 3	2 35 2 35	1 20 1 20			21 29	21 14	6 33 6 36	7 59 7 59	6 2
F 14		24 7		17 59	2 27		1 57	6 35	0 49		0 54	9 34	1 41		0 3	2 34	1 20				21 15	6 39	7 58	6 1
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F 21 S 22	23 27	7 36 12 25	-	20 7 20 27	1 38		1 48 1 46	4 34 4 17		13 25 13 26	0 56 0 56	9 35 9 36	1 43	21 48 21 48		2 33 2 33	1 20 1 20				21 19 21 20	6 59 7 2	7 55 7 54	
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T 27		25 55		21 56	0 49		1 37	2 49	0 28		0 57	9 38	1 44			2 32	1 20			21 32		7 17	7 51	5 57
F 28	23 18	24 59	1 37	22 12	0 41	19 24	1 35	2 32	0 26	13 32	0 57	9 38	1 45	21 46	0 3	2 31	1 19	1 24	16 19	21 32	21 23	7 19	7 50	5 57
S 29	23 15	22 36	0 24	22 28	0 33	19 39	1 33	2 14	0 25	13 34	0 58	9 39	1 45	21 46	0 3	2 31	1 19	1 24	16 19	21 32	21 24	7 22	7 49	5 56
S 30	23 11	18 52	0s51	22 42	0 25	19 54	1 31	1 57	0 24	13 35	0 58	9 40	1 45	21 45	0 3	2 31	1 19	1 24	16 19	21 32	21 24	7 25	7 49	5 56
M31	23 s 7	14n 3	2 s 5	$22\mathrm{s}55$	0n18	20 s 8	1n29	1 s39	0 s22	13n36	0n58	9n40	1n45	21n45	0s 3	2 s 3 0	1 s19	1 s24	16s18	21 s32	$21\mathrm{s}25$	7n28	7 s48	5n56

Julian Day Number = 2400745.5, Delta T = 8.95 sec

Ecliptic obliquity = $23^{\circ}27'30$, Nutation = $0^{\circ}00'14$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = $22^{\circ}47'53$, Lahiri = $21^{\circ}54'54$