

Astrodienst Ephemeris Tables for the year 1861

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 1861 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂ [™]	4	ħ)∤(并	Р	ß	ດ	Ç	ķ	Day
T 1	6 42 31	10 云 37'39	0 m) 6	23 🕶 23	8 × 753	27) 23	26°R26	9°R24	8°R49	26) 46	7°R36	22 중 48	23 පි 26	7 Υ 29	24≈28	T 1
W 2	6 46 27	11°38'48	14°15	24°50	10° 8	28° 4	26 Ω 22	9 m 23	8 Ⅱ 46	26°47	7 8 35	22°49	23°23	7°36	24°31	W 2
T 3	6 50 24	12°39'57	28°26	26°18	11°22	28°45	26°18	9°21	8°44	26°48	7°35	22°50	23°20	7°43	24°35	T 3
F 4	6 54 20	13°41'07	12 ₾ 38	27°46	12°36	29°26	26°14	9°19	8°43	26°49	7°35	22°R50	23°17	7°49	24°38	F 4
S 5	6 58 17	14°42'16	26°48	29°15	13°50	oΥ 7	26°10	9°18	8°41	26°50	7°34	22°50	23°13	7°56	24°42	S 5
S 6	7 2 13	15°43'26	10 M 54	0 궁 44	15° 4	0°48	26° 5	9°16	8°39	26°51	7°34	22°49	23°10	8° 3	24°45	S 6
M 7	7 6 10	16°44'37	24°53	2°14	16°19	1°29	26° 0	9°14	8°37	26°52	7°34	22°49	23° 7	8°10	24°49	M 7
T 8	7 10 6	17°45'47	8 才 44	3°45	17°33	2°10	25°56	9°12	8°35	26°53	7°33	22°48	23° 4	8°16	24°52	T 8
W 9	7 14 3	18°46'57	22°25	5°15	18°47	2°51	25°51	9°10	8°33	26°54	7°33	22°47	23° 1	8°23	24°56	W 9
T 10	7 18 0	19°48'07	5 ろ 52	6°47	20° 2	3°32	25°45	9° 8	8°32	26°55	7°33	22°47	22°58	8°30	24°59	T 10
F 11	7 21 56	20°49'17	19° 5	8°19	21°16	4°13	25°40	9° 5	8°30	26°56	7°33	22°D47	22°54	8°36	25° 3	F 11
S 12	7 25 53	21°50'26	2≈ 3	9°51	22°31	4°55	25°35	9° 3	8°28	26°57	7°32	22°47	22°51	8°43	25° 7	S 12
S 13	7 29 49	22°51'34	14°45	11°24	23°45	5°36	25°29	9° 0	8°27	26°58	7°32	22°R47	22°48	8°50	25°10	S 13
M14	7 33 46	23°52'43	27°12	12°57	24°59	6°17	25°23	8°58	8°25	27° 0	7°32	22°47	22°45	8°57	25°14	M14
T 15	7 37 42	24°53'50	9 米 26	14°31	26°14	6°58	25°17	8°55	8°23	27° 1	7°32	22°47	22°42	9° 3	25°18	T 15
W16	7 41 39	25°54'57	21°28	16° 5	27°28	7°39	25°11	8°52	8°22	27° 2	7°32	22°46	22°39	9°10	25°22	W16
T 17	7 45 35	26°56'03	3 ℃ 24	17°40	28°43	8°20	25° 5	8°49	8°20	27° 4	7°32	22°46	22°35	9°17	25°25	T 17
F 18	7 49 32	27°57'08	15°16	19°15	2 <u>9</u> °57	9° 1	24°59	8°47	8°19	27° 5	7°32	22°45	22°32	9°23	25°29	F 18
S 19	7 53 29	28°58'12	27° 9	20°51	1 る 12	9°43	24°52	8°43	8°18	27° 6	7°31	22°D45	22°29	9°30	25°33	S 19
S 20	7 57 25	29°59'15	9 8 8	22°28	2°26	10°24	24°46	8°40	8°16	27° 8	7°31	22°45	22°26	9°37	25°37	S 20
M21	8 1 22	1≈ 0'17	21°17	24° 5	3°41	11° 5	24°39	8°37	8°15	27° 9	7°D31	22°46	22°23	9°44	25°41	M21
T 22	8 5 18	2° 1'19	3 Ⅱ 41	25°43	4°55	11°46	24°32	8°34	8°14	27°11	7°31	22°47	22°19	9°50	25°45	T 22
W23	8 9 15	3° 2'19	16°24	27°21	6°10	12°27	24°26	8°30	8°13	27°12	7°31	22°48	22°16	9°57	25°49	W23
T 24	8 13 11	4° 3'18	29°28	29° 0	7°24	13° 8	24°19	8°27	8°12	27°14	7°32	22°49	22°13	10° 4	25°53	T 24
F 25	8 17 8	5° 4'17	12955	0≈39	8°39	13°49	24°12	8°23	8°11	27°15	7°32	22°49	22°10	10°11	25°57	F 25
S 26	8 21 4	6° 5'14	26°45	2°19	9°53	14°31	24° 4	8°20	8° 9	27°17	7°32	22°R50	22° 7	10°17	26° 1	S 26
S 27	8 25 1	7° 6'10	10 Ω 54	4° 0	11° 8	15°12	23°57	8°16	8° 9	27°18	7°32	22°49	22° 4	10°24	26° 5	S 27
M28	8 28 58	8° 7'06	25°19	5°42	12°23	15°53	23°50	8°12	8° 8	27°20	7°32	22°48	22° 0	10°31	26° 9	M28
T 29	8 32 54	9° 8'00	9 m 53	7°24	13°37	16°34	23°42	8° 8	8° 7	27°21	7°32	22°46	21°57	10°37	26°13	T 29
W30	8 36 51	10° 8'53	24°31	9° 7	14°52	17°15	23°35	8° 5	8° 6	27°23	7°32	22°43	21°54	10°44	26°17	W30
T 31	8 40 47	11≈ 9'46	9 ≙ 5	10≈50	16 궁 6	17 Y 56	23 £ 27	8 m) 1	8 I 5	27 米 25	7 8 33	22 궁 41	21 궁 51	10 Υ 51	26≈21	T 31

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T 1 W 2 T 3 F 4 S 5	23 s 2 22 57 22 51 22 45 22 39	2 23 4 8 3 s47 4 49 9 47 5 12	23 19 0 23 30 0s 23 39 0	s 5 20 48 1 22 13 21 0 1 20	0 47 0 18 0 29 0 17	13n38 0n58 13 39 0 59 13 41 0 59 13 43 0 59 13 44 0 59	9 42 1 46 9 43 1 46 9 43 1 46	21n45 0s 3 21 44 0 3 21 44 0 2 21 44 0 2 21 44 0 2	2 29 1 19	1 23 16 18 1 23 16 17 1 23 16 17	21 s32 21 s25 21 32 21 26 21 31 21 26 21 31 21 27 21 31 21 27	7n31 7 34 7 37 7 40 7 43	7s47 5n55 7 46 5 55 7 45 5 55 7 45 5 55 7 44 5 54
T 10	-	23 21 4 29 25 24 3 41 25 55 2 41 24 52 1 32	24 0 0 24 5 0 24 8 0 24 10 0	40 21 42 1 10 47 21 52 1 8 53 22 0 1 5	0 23 0 13 0 41 0 12 0 58 0 11 1 16 0 10	13 50 1 0		21 43 0 2 21 43 0 2	2 28 1 19 2 27 1 19 2 27 1 19 2 26 1 19	1 22 16 16 1 22 16 16 1 22 16 15 1 22 16 15	21 32 21 28 21 32 21 29 21 32 21 29 21 32 21 30 21 32 21 30 21 32 21 31	7 45 7 48 7 51 7 54 7 57 8 0	7 43 5 54 7 42 5 54 7 41 5 54 7 40 5 53 7 39 5 53 7 38 5 53
S 12 S 13 M14 T 15 W16 T 17 F 18	21 41 21 31 21 21 21 10 20 59 20 47 20 35	18 53	24 10 1 24 9 1 24 5 1 24 1 1 23 55 1 23 48 1 23 39 1	5 22 15 1 0 11 22 21 0 57 16 22 27 0 55 21 22 32 0 52 26 22 37 0 49 31 22 40 0 47 35 22 44 0 44	1 50 0 7 2 8 0 6 2 25 0 5 2 42 0 4 3 0 0 3 3 17 0 2 3 34 0 1	13 58 1 1 14 0 1 1 14 2 1 1 14 4 1 2 14 6 1 2 14 9 1 2 14 11 1 2	9 51 1 48 9 53 1 49 9 54 1 49 9 55 1 49 9 56 1 49 9 57 1 49 9 59 1 50	21 42 0 2 21 41 0 2 21 40 0 2	2 25 1 19 2 25 1 19 2 24 1 19 2 24 1 19 2 23 1 19 2 23 1 19 2 22 1 19	1 21 16 14 1 21 16 14 1 21 16 14 1 20 16 13 1 20 16 13 1 20 16 12 1 19 16 12	21 32 21 31 21 32 21 32 21 32 21 32 21 32 21 33 21 32 21 33 21 32 21 34 21 32 21 34	8 3 8 5 8 8 8 11 8 14 8 17 8 20	7 37 5 53 7 36 5 52 7 35 5 52 7 34 5 52 7 33 5 52 7 32 5 51 7 31 5 51
S 19 S 20 M21 T 22 W23 T 24 F 25 S 26	19 57 19 44 19 30 19 15 19 1	19 21 5 4 22 34 4 39 24 50 4 0 25 53 3 8 25 33 2 6 23 44 0 55	23 17 1 23 4 1 22 50 1 22 34 1 22 16 1	40 22 46 0 41 44 22 48 0 38 47 22 49 0 36 50 22 49 0 33 53 22 49 0 30 56 22 48 0 27 58 22 46 0 24 0 22 44 0 22	4 9 0 2 4 26 0 3 4 43 0 4	14 18 1 3 14 21 1 3 14 23 1 3 14 26 1 3 14 28 1 4	10 2 1 50 10 3 1 50 10 4 1 51 10 6 1 51 10 7 1 51 10 9 1 51	21 40 0 2 21 39 0 2 21 39 0 2 21 39 0 2	2 21 1 19 2 20 1 19 2 20 1 19 2 19 1 19 2 18 1 19 2 18 1 19	1 19 16 11 1 19 16 11 1 18 16 11 1 18 16 10 1 17 16 10 1 17 16 10	21 32 21 35 21 32 21 35 21 32 21 36 21 32 21 36 21 32 21 37 21 32 21 37 21 32 21 38 21 32 21 38	8 23 8 25 8 28 8 31 8 34 8 37 8 40 8 42	7 30 5 51 7 29 5 51 7 28 5 51 7 27 5 50 7 25 5 50 7 24 5 50 7 23 5 50 7 22 5 50
S 27 M28 T 29 W30 T 31		10 25 2 50 4 18 3 51 2s 4 4 38		3 22 37 0 16 4 22 32 0 13	6 24 0 10 6 41 0 11 6 57 0 12	14 36 1 4 14 38 1 4 14 41 1 4	10 14 1 52 10 15 1 52 10 17 1 52	21 39 0 2 21 39 0 2 21 38 0 2 21 38 0 2 21n38 0s 2	2 16 1 18 2 15 1 18 2 14 1 18	1 16 16 9 1 16 16 8 1 15 16 8	21 32 21 39 21 32 21 40 21 32 21 40 21 33 21 41 21 s33 21 s41	8 45 8 48 8 51 8 54 8n56	7 21 5 50 7 20 5 49 7 18 5 49 7 17 5 49 7 s16 5n49

Julian Day Number = 2400776.5, Delta T = 8.95 sec Ecliptic obliquity = 23°27'30, Nutation = 0°00'16, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}47'57$, Lahiri = $21^{\circ}54'58$

FEBRUARY 1861 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ)ţ(并	В	V	v	Ç	Ŗ	Day
F 1	8 44 44	12≈10'38	23 ₽ 31	12≈35	17 ට 21	18 Y 37	23°R20	7°R57	8°R 4	27) (27	7 8 33	22°R39	21 궁 48	10 Υ 58	26≈25	F 1
S 2	8 48 40	13°11'29	7 M .45	14°20	18°36	19°18	23 \Omega 12	7 m 52	8 Ⅱ 4	27°28	7°33	22°D38	21°45	11° 4	26°29	S 2
S 3	8 52 37	14°12'19	21°45	16° 5	19°50	19°59	23° 4	7°48	8° 3	27°30	7°33	22 る 38	21°41	11°11	26°33	S 3
M 4	8 56 33	15°13'08	5 ₹ 29	17°52	21° 5	20°40	22°56	7°44	8° 2	27°32	7°34	22°39	21°38	11°18	26°37	M 4
T 5	9 0 30	16°13'57	18°58	19°39	22°20	21°21	22°48	7°40	8° 2	27°34	7°34	22°41	21°35	11°24	26°42	T 5
W 6	9 4 27	17°14'44	2 ප 14	21°26	23°34	22° 2	22°41	7°35	8° 1	27°35	7°34	22°43	21°32	11°31	26°46	W 6
T 7	9 8 23	18°15'31	15°15	23°14	24°49	22°43	22°33	7°31	8° 1	27°37	7°35	22°44	21°29	11°38	26°50	T 7
F 8	9 12 20	19°16'16	28° 5	25° 3	26° 3	23°24	22°25	7°27	8° 1	27°39	7°35	22°R44	21°25	11°45	26°54	F 8
S 9	9 16 16	20°17'00	10≈42	26°52	27°18	24° 5	22°17	7°22	8° 0	27°41	7°35	22°42	21°22	11°51	26°58	S 9
S 10	9 20 13	21°17'43	23° 9	28°42	28°33	24°46	22° 9	7°18	8° 0	27°43	7°36	22°40	21°19	11°58	27° 2	S 10
M11	9 24 9	22°18'24	5 ∺ 26	0 ∺ 31	29°47	25°27	22° 1	7°13	8° 0	27°45	7°36	22°35	21°16	12° 5	27° 7	M11
T 12	9 28 6	23°19'04	17°33	2°21	1≈ 2	26° 8	21°53	7° 9	8° 0	27°47	7°37	22°30	21°13	12°12	27°11	T 12
W13	9 32 2	24°19'42	29°33	4°11	2°17	26°49	21°45	7° 4	8° 0	27°49	7°37	22°24	21°10	12°18	27°15	W13
T 14	9 35 59	25°20'18	11 Y 28	6° 0	3°31	27°30	21°37	6°59	8°D 0	27°51	7°38	22°18	21° 6	12°25	27°19	T 14
F 15	9 39 56	26°20'53	23°19	7°49	4°46	28°11	21°29	6°55	8° 0	27°53	7°38	22°13	21° 3	12°32	27°23	F 15
S 16	9 43 52	27°21'26	5 8 11	9°37	6° 1	28°52	21°21	6°50	8° 0	27°55	7°39	22° 9	21° 0	12°38	27°28	S 16
S 17	9 47 49	28°21'57	17° 8	11°24	7°15	29°32	21°13	6°45	8° 0	27°57	7°39	22° 6	20°57	12°45	27°32	S 17
M18	9 51 45	29°22'27	29°13	13° 9	8°30	0813	21° 6	6°40	8° 0	27°59	7°40	22°D 6	20°54	12°52	27°36	M18
T 19	9 55 42	0 ∺ 22'55	11 II 33	14°53	9°45	0°54	20°58	6°36	8° 0	28° 1	7°41	22° 6	20°51	12°59	27°40	T 19
W20	9 59 38	1°23'20	24°11	16°34	10°59	1°35	20°50	6°31	8° 0	28° 3	7°41	22° 8	20°47	13° 5	27°44	W20
T 21	10 3 35	2°23'44	7 9 513	18°12	12°14	2°16	20°43	6°26	8° 1	28° 5	7°42	22° 9	20°44	13°12	27°49	T 21
F 22	10 7 31	3°24'06	20°40	19°47	13°28	2°56	20°35	6°21	8° 1	28° 7	7°42	22°R10	20°41	13°19	27°53	F 22
S 23	10 11 28	4°24'27	4 Ω 35	21°18	14°43	3°37	20°27	6°16	8° 1	28° 9	7°43	22° 9	20°38	13°25	27°57	S 23
S 24	10 15 25	5°24'45	18°57	22°44	15°58	4°18	20°20	6°12	8° 2	28°11	7°44	22° 7	20°35	13°32	28° 1	S 24
M25	10 19 21	6°25'01	3 m) 41	24° 5	17°12	4°59	20°13	6° 7	8° 3	28°13	7°45	22° 2	20°31	13°39	28° 5	M25
T 26	10 23 18	7°25'15	18°40	25°21	18°27	5°39	20° 5	6° 2	8° 3	28°16	7°45	21°56	20°28	13°46	28° 9	T 26
W27	10 27 14	8°25'28	3 <u>Ω</u> 45	26°29	19°41	6°20	19°58	5°57	8° 4	28°18	7°46	2 <u>1°</u> 48	20°25	13°52	28°14	W27
T 28	10 31 11	9 米 25'39	18 ≏ 46	27) 31	20≈56	7 8 1	19 Ω 51	5 m 52	8 I I 4	28 米 20	7 8 47	21 る 41	20 궁 22	13 Y 59	28≈18	T 28

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	decl	decl lat	decl	lat de	el lat	decl	lat	decl	lat	decl	lat	decl	lat	decl la	ıt	decl lat	decl	decl	decl	decl	lat
F 1	17s 9	14s 1 5s1:	19s 2		5 On 5	7n31	0n13	14n46	1n 5	10n20		21n38		2s13	1 s18	1s14 16s			8n59	7s15	5n49
S 2	16 52	18 54 5	18 31	2 4 22	8 0 2	7 47	0 14	14 49	1 5	10 22	1 53	21 38	0 2	2 12	1 18	1 14 16	7 21 33	21 42	9 2	7 14	5 49
S 3	16 35	22 39 4 30	17 58		0 0s 1	8 3	0 15	14 52	1 5	10 24		21 38	0 2	2 12	1 18		6 21 33	21 43	9 5	7 12	5 49
M 4	16 17			-		8 20		14 54	1 5		1 53		-		1 18		6 21 33	_	9 8	7 11	5 48
T 5			16 48			8 36		14 57	1 5			21 38	-	-	1 18		6 21 33				5 48
W 6	-	25 17 1 50 23 16 0 4	16 11 1 15 33			8 52 9 8			1 5 1 5			21 38 21 38	-		1 18 1 18	-	5 21 33 5 21 32		9 13 9 16	7 8 7 7	5 48 5 48
F 8			9 14 52						1 6		1 54			-	1 18		5 21 32		9 19		5 48
S 9	14 44			-		-		15 8	1 6			21 38	-	-	1 18		4 21 33			7 5	5 48
S 10	-		13 28					-		10 36		21 38	-	-	1 18	-	4 21 33		-	7 3	5 48
M11	14 5		12 44			10 12		15 13	1 6		1 54				1 18		4 21 34		9 27	7 2	5 48
T 12 W13	13 45 13 25	-	5 11 59 7 11 13			10 27 10 43		15 16 15 19	1 6		1 54 1 54			-	1 18 1 18		3 21 35 3 21 36		9 30 9 33	7 1 6 59	5 48 5 48
T 14	13 23	-	10 25			10 43	-	15 19	1 6		1 54		-		1 18	-	3 21 30		9 35	6 58	5 48
F 15		13 53 5 1						15 24	1 6			21 38	-	-	1 18		2 21 38		9 38	6 56	5 48
S 16	12 24	18 1 5	8 48	0 54 19	0 34	11 29	0 26	15 26	1 6	10 47	1 55	21 38	0 2	2 1	1 18	1 8 16	2 21 38	21 49	9 41	6 55	5 48
S 17	12 3	21 28 4 4	7 58	0 44 19	4 0 36	11 44	0 27	15 29	1 6	10 49	1 55	21 38	0 2	2 1	1 18	1 7 16	2 21 39	21 49	9 44	6 54	5 47
M18	11 42		7 8			11 59		15 32		10 51		21 38			1 18		1 21 39			6 52	5 47
T 19	11 21							15 34	1 7			21 38			1 18	-	1 21 39			6 51	5 47
W20 T 21	10 59	25 46 2 20 24 36 1 20				12 29 12 44		15 37 15 39	1 7	10 55 10 56	1 55	21 38 21 38			1 18 1 18		1 21 38 0 21 38		9 52 9 55	6 50 6 48	5 47 5 47
F 22	10 36		3 50			12 44		15 42		10 58		21 38	-		1 18		0 21 38	-		6 47	5 47
S 23	9 54					13 13		15 44		11 0		21 38			1 18		0 21 38				5 47
S 24	9 32	12 56 2 20	2 15	0 42 16	0 52	13 28	0 32	15 47	1 7	11 2	1 55	21 38	0 2	1 55	1 18	1 4 15 5	9 21 39	21 53	10 3	6 44	5 47
M25	9 10	6 59 3 2				13 42			1 7						1 18		9 21 39			6 43	5 47
T 26	8 48	0 32 4 1				13 57		15 51	1 7	-		21 38	-		1 18		9 21 40			6 41	5 47
W27 T 28	8 25	5 s 5 8 4 5 5 a 6				14 11		15 54	1 7	-		21 38	-		1 18		9 21 41		-	6 40	5 47
1 28	8s 2	12 s 5 5 s	7 0n32	1n39 15 s	8 IS 0	14n25	Un35	15n56	In /	11n 9	1n56	21n38	0s 2	1 s51	1 s18	1s 2 15s5	8 21 S43	21855	10n14	6 s 3 8	5n47

Julian Day Number = 2400807.5, Delta T = 8.95 sec Ecliptic obliquity = $23^{\circ}27'30$, Nutation = $0^{\circ}00'17$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}48'02$, Lahiri = $21^{\circ}55'02$

MARCH 1861 00:00 UT

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Day	Sid.t	0)	ğ	φ	ď	4	ħ)ţ(卉	Р	S.	v	Ç	ķ	Day
F 1	10 35 7	10) 25'49	3 M .35	28 米 26	22≈11	7 8 41	19°R44	5°R48	8 I 5	28) 22	7 8 48	21°R35	20 ට 19	14 Y 6	28≈22	F 1
S 2	10 39 4	11°25'57	18° 4	29°12	23°25	8°22	19 Ω 37	5 M 43	8° 6	28°24	7°48	21 궁 31	20°16	14°13	28°26	S 2
S 3	10 43 0	12°26'04	2 √ 11	29°50	24°40	9° 2	19°30	5°38	8° 7	28°27	7°49	21°28	20°12	14°19	28°30	S 3
M 4	10 46 57	13°26'09	15°55	o Υ 19	25°54	9°43	19°23	5°33	8° 8	28°29	7°50	21°D28	20° 9	14°26	28°34	M 4
T 5	10 50 54	14°26'12	29°16	0°39	27° 9	10°23	19°17	5°29	8° 9	28°31	7°51	21°28	20° 6	14°33	28°38	T 5
W 6	10 54 50	15°26'14	12 る 17	0°50	28°24	11° 4	19°10	5°24	8°10	28°33	7°52	21°29	20° 3	14°39	28°42	W 6
T 7	10 58 47	16°26'15	25° 2	0°R52	29°38	11°44	19° 4	5°19	8°11	28°35	7°53	21°R30	20° 0	14°46	28°46	T 7
F 8	11 2 43	17°26'13	7≈33	0°44	0 ∺ 53	12°25	18°58	5°14	8°12	28°38	7°54	21°28	19°56	14°53	28°50	F 8
S 9	11 6 40	18°26'10	19°54	0°29	2° 7	13° 5	18°51	5°10	8°13	28°40	7°55	21°25	19°53	15° 0	28°54	S 9
S 10	11 10 36	19°26'05	2 ∺ 6	0° 5	3°22	13°46	18°45	5° 5	8°14	28°42	7°56	21°18	19°50	15° 6	28°58	S 10
M11	11 14 33	20°25'58	14°11	29 米 34	4°36	14°26	18°40	5° 1	8°15	28°44	7°57	21° 9	19°47	15°13	29° 2	M11
T 12	11 18 29	21°25'49	26°11	28°55	5°51	15° 6	18°34	4°56	8°17	28°47	7°58	20°58	19°44	15°20	29° 6	T 12
W13	11 22 26	22°25'38	8 Υ 6	28°12	7° 6	15°47	18°28	4°52	8°18	28°49	7°59	20°46	19°41	15°26	29°10	W13
T 14	11 26 23	23°25'25	19°59	27°23	8°20	16°27	18°23	4°47	8°20	28°51	8° 0	20°33	19°37	15°33	29°14	T 14
F 15	11 30 19	24°25'10	1850	26°31	9°35	17° 7	18°18	4°43	8°21	28°53	8° 1	20°22	19°34	15°40	29°18	F 15
S 16	11 34 16	25°24'52	13°42	25°36	10°49	17°48	18°12	4°38	8°22	28°56	8° 2	20°13	19°31	15°47	29°22	S 16
S 17	11 38 12	26°24'33	25°39	24°41	12° 4	18°28	18° 7	4°34	8°24	28°58	8° 3	20° 6	19°28	15°53	29°26	S 17
M18	11 42 9	27°24'11	7 Ⅱ 43	23°45	13°18	19° 8	18° 3	4°30	8°26	29° 0	8° 4	20° 1	19°25	16° 0	29°30	M18
T 19	11 46 5	28°23'48	19°59	22°50	14°33	19°48	17°58	4°26	8°27	29° 3	8° 5	19°59	19°22	16° 7	29°33	T 19
W20	11 50 2	29°23'22	2932	21°58	15°47	20°29	17°54	4°21	8°29	29° 5	8° 6	19°D59	19°18	16°14	29°37	W20
T 21	11 53 58	0 Υ 22'53	15°27	21° 9	17° 1	21° 9	17°49	4°17	8°31	29° 7	8° 7	20°R 0	19°15	16°20	29°41	T 21
F 22	11 57 55	1°22'22	28°47	20°24	18°16	21°49	17°45	4°13	8°33	29° 9	8° 8	19°59	19°12	16°27	29°45	F 22
S 23	12 1 52	2°21'49	12 \O 37	19°44	19°30	22°29	17°41	4° 9	8°34	29°12	8° 9	19°58	19° 9	16°34	29°48	S 23
S 24	12 5 48	3°21'14	26°56	19° 8	20°45	23° 9	17°37	4° 6	8°36	29°14	8°10	19°53	19° 6	16°40	29°52	S 24
M25	12 9 45	4°20'36	11 m 43	18°39	21°59	23°49	17°34	4° 2	8°38	29°16	8°12	19°46	19° 2	16°47	29°55	M25
T 26	12 13 41	5°19'56	26°50	18°14	23°13	24°29	17°30	3°58	8°40	29°18	8°13	19°37	18°59	16°54	29°59	T 26
W27	12 17 38	6°19'14	12 º 9	17°56	24°28	25° 9	17°27	3°54	8°42	29°21	8°14	19°26	18°56	17° 1	0 ∺ 3	W27
T 28	12 21 34	7°18'30	27°28	17°44	25°42	25°49	17°24	3°51	8°44	29°23	8°15	19°16	18°53	17° 7	0° 6	T 28
F 29	12 25 31	8°17'44	12M36	17°37	26°57	26°29	17°21	3°47	8°46	29°25	8°16	19° 6	18°50	17°14	0°10	F 29
S 30	12 29 27	9°16'56	27°23	17°D36	28°11	27° 9	17°19	3°44	8°48	29°27	8°18	18°59	18°47	17°21	0°13	S 30
S 31	12 33 24	10 Y 16'07	11 ×7 43	17) (41	29 ∺ 25	27 8 49	17 Ω 16	3 m 40	8 Ⅱ 51	29 米 30	8 8 19	18 ප 54	18 ප් 43	17 Y 27	0 ∺ 17	S 31

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F 1 S 2		17 s26 5 s 1 21 38 4 35	1n 6 1n53 1 38 2		n39 0n35	15n58 1n 16 0 1	7 11n11 7 11 13			0 s 2 0 2	1 s50 1 s18 1 50 1 18	1s 1 15 s58 1 1 15 58	21 s44 21 44			6s37 5n47 6 35 5 47
S 3 M 4 T 5 W 6 T 7 F 8 S 9	6 8 5 45 5 21 4 58	25 41 2 59 25 24 1 57 23 42 0 49 20 50 0n19 17 2 1 25	3 18 3 1	4 13 56 1 7 1: 6 13 32 1 8 1: 8 13 8 1 10 1: 8 12 43 1 11 1:	20 0 37 33 0 38 46 0 39 59 0 39 12 0 40	16 5 1 16 7 1	7 11 15 7 11 18 7 11 20 7 11 22 7 11 24 7 11 26	1 56 1 56 1 56 1 56 1 56	21 39 21 39 21 39 21 40 21 40	0 2 0 2 0 2 0 2 0 2 0 2 0 2	1 49 1 18 1 48 1 18 1 47 1 18 1 46 1 18 1 45 1 18 1 44 1 18 1 43 1 18	0 59 15 57 0 59 15 57	21 45 21 45 21 44 21 44 21 45	21 57 21 57 21 58 21 58 21 59	10 25 10 27 10 30 10 33 10 35	6 34 5 47 6 33 5 47 6 31 5 48 6 30 5 48 6 28 5 48 6 27 5 48 6 25 5 48
S 10 M11 T 12 W13 T 14 F 15 S 16	-		3 6 3 34 2 53 3 36	4 11 1 1 16 16 16 10 35 1 18 17 10 8 1 19 17 5 9 41 1 20 17 1 9 14 1 21 17	51 0 41	16 18 1 16 20 1 16 22 1 16 23 1 16 25 1	7 11 27 7 11 29 7 11 31 7 11 32 7 11 34 7 11 36 7 11 37	1 56 1 56 1 56 1 56 1 56 1 56	21 40 21 41 21 41 21 41 21 41	0 2 0 2 0 2 0 2 0 2 0 2 0 2	1 42 1 18 1 42 1 18 1 41 1 18 1 40 1 18 1 39 1 18 1 38 1 18 1 37 1 18	0 55 15 55	21 48 21 49 21 51 21 53 21 55	22 0 22 0 22 1 22 1 22 2	10 43 10 46 10 49 10 51 10 54	6 24 5 48 6 23 5 48 6 21 5 48 6 20 5 48 6 18 5 48 6 17 5 48 6 16 5 48
S 17 M18 T 19 W20 T 21 F 22 S 23	1 2 0 38 0 15 0n 9 0 33	24 59 3 25 25 37 2 32 24 57 1 31 22 58 0 24 19 40 0s47	0s 6 2 59 0 38 2 4 1 9 2 34 1 40 2 20	9 7 51 1 23 13 9 7 23 1 24 13 7 6 55 1 25 13 4 6 26 1 25 13	15 0 45 26 0 46 38 0 46 49 0 47	16 31 1 16 32 1 16 33 1 16 34 1	6 11 39 6 11 40 6 11 42 6 11 43 6 11 46 6 11 48	1 56 1 56 1 56 1 56 1 56	21 42 21 42 21 43 21 43 21 43	0 2 0 2 0 2 0 2 0 2 0 2 0 2	1 36 1 18 1 35 1 18 1 34 1 18 1 33 1 18 1 33 1 18 1 32 1 18 1 31 1 18	0 53 15 54 0 52 15 53 0 51 15 53 0 51 15 53 0 50 15 53 0 50 15 53 0 49 15 52	21 58 21 58 21 58 21 58 21 58	22 3 22 4 22 4 22 4 22 5		6 14 5 48 6 13 5 49 6 11 5 49 6 10 5 49 6 8 5 49 6 7 5 49 6 6 5 49
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	3 18 3 41	9 41 3 2 3 31 3 58 2 s59 4 38 9 23 4 58 15 12 4 58 20 1 4 36 23 25 3 56 25 s14 3 s 3	4 7 0 44 4 24 0 33 4 38 0 18	5 4 31 1 27 19 9 4 2 1 27 19 4 3 33 1 28 19 8 3 3 1 28 20 3 2 34 1 28 20 8 2 4 1 28 20	0 32 0 49 0 42 0 49 0 52 0 50 0 2 0 50 0 12 0 51	16 39 1 16 40 1 16 40 1 16 41 1 16 42 1	6 11 49 6 11 50 6 11 53 6 11 54 6 11 57 5 11n58	1 56 1 56 1 56 1 56 1 56 1 56 1 56	21 44 21 44 21 45 21 45 21 45 21 46	0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 5 2	1 30 1 18 1 29 1 18 1 28 1 18 1 27 1 18 1 26 1 18 1 25 1 18 1 25 1 18 1 s24 1 s18	0 49 15 52 0 48 15 52 0 48 15 52 0 47 15 52 0 47 15 51 0 46 15 51 0 845 15851	22 0 22 1 22 3 22 4 22 6 22 7	22 6 22 7 22 7 22 8 22 8 22 8	11 23 11 26 11 29 11 31 11 34	6 4 5 49 6 3 5 50 6 1 5 50 6 0 5 50 5 59 5 50 5 57 5 50 5 56 5 50 5 855 5050

Julian Day Number = 2400835.5, Delta T = 8.95 sec Ecliptic obliquity = 23°27'30, Nutation = 0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}48'05$, Lahiri = $21^{\circ}55'06$

APRIL 1861 00:00 UT

Day	Sid.t	0	D	Ϋ́	φ	♂	4	ħ)Å(¥	Р	ß	Ω	ţ	ę,	Day
M 1	12 37 21	11 ° 15'15	25 × 35	17 米 50	0 Υ 40	28829	17°R14	3°R37	8 I I53	29 米 32	8 8 20	18°R51	18 궁 40	17 Y 34	0) (20	M 1
T 2	12 41 17	12°14'22	9 ろ 0	18° 6	1°54	29° 9	17 Ω 12	3 Mp 34	8°55	29°34	8°21	18 궁 51	18°37	17°41	0°23	T 2
W 3	12 45 14	13°13'28	22° 0	18°26	3°8	29°49	17°10	3°31	8°57	29°36	8°22	18°51	18°34	17°48	0°27	W 3
T 4	12 49 10	14°12'31	4≈39	18°50	4°23	0Д28	17° 8	3°27	9° 0	29°39	8°24	18°50	18°31	17°54	0°30	T 4
F 5	12 53 7	15°11'33	17° 2	19°20	5°37	1° 8	17° 6	3°24	9° 2	29°41	8°25	18°48	18°28	18° 1	0°33	F 5
S 6	12 57 3	16°10'32	29°13	19°53	6°51	1°48	17° 5	3°22	9° 4	29°43	8°26	18°43	18°24	18° 8	0°36	S 6
S 7	13 1 0	17° 9'30	11) 15	20°31	8° 5	2°28	17° 4	3°19	9° 7	29°45	8°28	18°35	18°21	18°15	0°40	S 7
M 8	13 4 56	18° 8'26	23°12	21°12	9°20	3° 7	17° 3	3°16	9° 9	29°47	8°29	18°24	18°18	18°21	0°43	M 8
T 9	13 8 53	19° 7'20	5 Υ 6	21°57	10°34	3°47	17° 2	3°13	9°12	29°50	8°30	18°11	18°15	18°28	0°46	T 9
W10	13 12 49	20° 6'12	16°58	22°46	11°48	4°27	17° 1	3°11	9°14	29°52	8°31	17°57	18°12	18°35	0°49	W10
T 11	13 16 46	21° 5'02	28°50	23°38	13° 3	5° 7	17° 1	3° 8	9°17	29°54	8°33	17°42	18° 8	18°41	0°52	T 11
F 12	13 20 43	22° 3'50	10843	24°33	14°17	5°46	17° 0	3° 6	9°20	29°56	8°34	17°29	18° 5	18°48	0°55	F 12
S 13	13 24 39	23° 2'37	22°39	25°31	15°31	6°26	17°D 0	3° 4	9°22	29°58	8°35	17°17	18° 2	18°55	0°58	S 13
S 14	13 28 36	24° 1'21	4Ⅱ 40	26°32	16°45	7° 5	17° 0	3° 2	9°25	0 Υ 0	8°37	17° 8	17°59	19° 2	1° 1	S 14
M15	13 32 32	25° 0'03	16°48	27°35	17°59	7°45	17° 1	3° 0	9°28	0° 2	8°38	17° 2	17°56	19°8	1° 4	M15
T 16	13 36 29	25°58'42	29° 6	28°41	19°14	8°24	17° 1	2°58	9°30	0° 5	8°39	16°59	17°53	19°15	1° 6	T 16
W17	13 40 25	26°57'20	119539	29°50	20°28	9° 4	17° 2	2°56	9°33	0° 7	8°41	16°58	17°49	19°22	1° 9	W17
T 18	13 44 22	27°55'55	24°31	1 Υ 1	21°42	9°43	17° 3	2°54	9°36	0° 9	8°42	16°58	17°46	19°29	1°12	T 18
F 19	13 48 18	28°54'28	7 Ω 45	2°14	22°56	10°23	17° 4	2°52	9°39	0°11	8°43	16°58	17°43	19°35	1°15	F 19
S 20	13 52 15	29°52'59	21°26	3°30	24°10	11° 2	17° 5	2°51	9°42	0°13	8°45	16°57	17°40	19°42	1°17	S 20
S 21	13 56 12	0 8 51'28	5 m 35	4°47	25°24	11°42	17° 6	2°49	9°45	0°15	8°46	16°53	17°37	19°49	1°20	S 21
M22	14 0 8	1°49'54	20°11	6° 7	26°38	12°21	17° 8	2°48	9°48	0°17	8°47	16°47	17°33	19°55	1°22	M22
T 23	14 4 5	2°48'19	5 ₾ 9	7°29	27°52	13° 1	17°10	2°47	9°51	0°19	8°49	16°38	17°30	20° 2	1°25	T 23
W24	14 8 1	3°46'41	20°24	8°53	29° 6	13°40	17°12	2°46	9°54	0°21	8°50	16°28	17°27	20° 9	1°27	W24
T 25	14 11 58	4°45'01	5 M .43	10°19	0 8 20	14°19	17°14	2°45	9°57	0°23	8°51	16°18	17°24	20°16	1°30	T 25
F 26	14 15 54	5°43'20	20°55	11°47	1°34	14°58	17°16	2°44	10° 0	0°25	8°53	16° 9	17°21	20°22	1°32	F 26
S 27	14 19 51	6°41'37	5 ₹ 50	13°17	2°49	15°38	17°19	2°43	10° 3	0°27	8°54	16° 1	17°18	20°29	1°34	S 27
S 28	14 23 47	7°39'52	20°20	14°49	4° 3	16°17	17°21	2°42	10° 6	0°29	8°56	15°56	17°14	20°36	1°36	S 28
M29	14 27 44	8°38'06	4 る 22	16°22	5°17	16°56	17°24	2°41	10° 9	0°30	8°57	15°54	17°11	20°42	1°39	M29
T 30	14 31 41	9 8 36'19	17 る 55	17 Y 58	6 8 31	17 Ⅲ 35	17 Ω 27	2 m 41	10 Ⅱ 12	0 Υ 32	8 8 58	15°D54	17る 8	20 Y 49	1) (41	T 30

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M 1 T 2	4 50		4s58 0s10 5 5 0 24	0 35 1 28	20n41 0n52 20 50 0 52	16 44 1 5	12 0 1 56	21n46 0s 2 21 47 0 2	1 22 1 18	0 44 15 51		11 42	5 52 5 51
W 3 T 4 F 5	5 13 5 36 5 59		5 9 0 37 5 10 0 49 5 9 1 1	0n25 1 27 2 0 54 1 27 2	21 8 0 53 21 17 0 53		12 2 1 55 12 3 1 55		1 21 1 18 1 20 1 18 1 19 1 18	0 43 15 50 0 43 15 50 0 42 15 50	22 8 22 11 22 8 22 11	11 47 11 49	5 49 5 51 5 48 5 51
S 6 S 7	6 22	8 42 3 16 3 40 3 59	5 6 1 12 5 1 1 22	1 54 1 26	21 33 0 54	16 46 1 5	12 5 1 55	21 48 0 1 21 49 0 1	1 18 1 18 1 18 1 18		22 10 22 12	11 55	
M 8 T 9 W10	7 7 7 30 7 52		4 54 1 32 4 45 1 41 4 33 1 50	2 53 1 25 2 3 23 1 24 2	21 50 0 55 21 57 0 55	16 46 1 5 16 46 1 4	12 7 1 55 12 8 1 55	21 49 0 1 21 50 0 1	1 17 1 18 1 16 1 18 1 15 1 18	0 40 15 49 0 40 15 49	22 12 22 12 22 13 22 13 22 15 22 13	12 0 12 2	5 42 5 52
T 11 F 12 S 13	8 36	15 38 4 54 19 24 4 35 22 24 4 5	4 20 1 58 4 5 2 5 3 48 2 12	4 22 1 22	22 12 0 56	16 46 1 4 16 46 1 4 16 46 1 4	12 9 1 55	21 50 0 1 21 51 0 1 21 51 0 1	1 14 1 18 1 13 1 18 1 13 1 18	0 39 15 49	22 17 22 14 22 19 22 14 22 20 22 15	12 8	5 39 5 53
S 14 M15 T 16	9 20 9 41 10 3	25 20 2 32	3 30 2 18 3 9 2 24 2 48 2 28	5 50 1 20	22 27 0 57 22 34 0 57 22 40 0 57		12 12 1 54		1 12 1 18 1 11 1 18 1 10 1 18	0 37 15 49	22 22 22 15 22 22 22 15 22 23 22 16	12 15	5 37 5 53 5 35 5 54 5 34 5 54
W17 T 18	10 24 10 45	23 25 0 28 20 35 0 s40	2 24 2 33 1 59 2 36	6 48 1 17 1 7 17 1 16 1	22 47 0 58 22 53 0 58	16 45 1 4 16 45 1 4	12 13 1 54 12 13 1 54	21 53 0 1 21 53 0 1	1 9 1 18 1 8 1 18	0 36 15 49 0 36 15 49	22 23 22 16 22 23 22 17	12 20 12 23	5 33 5 54 5 32 5 54
S 20 S 21	11 6 11 26 11 47		1 33 2 39 1 5 2 42 0 36 2 44	8 14 1 14	23 5 0 59	16 45 1 3 16 44 1 3 16 44 1 3	12 14 1 54	21 54 0 1 21 54 0 1 21 54 0 1		0 35 15 48	22 23 22 17 22 23 22 17 22 23 22 18	12 28	5 31 5 55 5 30 5 55 5 28 5 55
M22 T 23	12 7 12 27	0s15 4 30 6 34 4 55	0 6 2 45 0n26 2 46	9 11 1 11 2 9 38 1 10	23 16 0 59 23 22 1 0	16 43 1 3 16 42 1 3	12 15 1 54 12 15 1 54	21 55 0 1 21 55 0 1	1 5 1 19 1 5 1 19	0 34 15 48 0 34 15 48	22 24 22 18 22 25 22 19	12 33 12 36	5 27 5 55 5 26 5 56
W24 T 25 F 26	12 47 13 7 13 26		0 59 2 46 1 33 2 46 2 8 2 45	10 34 1 7 11 1 1 5	23 27 1 0 23 32 1 0 23 37 1 1	16 41 1 3 16 40 1 3	12 16 1 53 12 16 1 53	21 56 0 1 21 57 0 1	1 4 1 19 1 3 1 19 1 2 1 19	0 33 15 48 0 32 15 48	22 27 22 19 22 28 22 20 22 29 22 20	12 41 12 43	5 25 5 56 5 24 5 56 5 23 5 56
S 27 S 28	-	25 17 2 11	-	11 54 1 2	23 41 1 1 23 46 1 1	16 39 1 3 16 38 1 2	12 17 1 53	21 57 0 1 21 58 0 1		0 31 15 48	22 30 22 20 22 30 22 21	12 48	5 21 5 57
M29 T 30	-	24 24 1 1 22s 5 0n11	4 0 2 39 4n39 2s36	12 21 1 0 1 12n47 0s58	23 50 1 1 23n54 1n 2			21 58 0 1 21n59 0s 1			22 31 22 21 22 s31 22 s22	-	5 20 5 57 5 s 19 5 n 5 8

Julian Day Number = 2400866.5, Delta T = 8.95 sec Ecliptic obliquity = $23^{\circ}27'30$, Nutation = $0^{\circ}00'16$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}48'10$, Lahiri = $21^{\circ}55'10$

MAY 1861 00:00 UT

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W 1	14 35 37	10834'29	1≈ 0	19 Y 35	7 8 45	18 II 15	17 Ω 30	2°R40	10 I I15	0 Υ34	9 8 0	15 る 54	17 る 5	20 Υ 56	1) (43	W 1
T 2	14 39 34	11°32'39	13°42	21°15	8°59	18°54	17°34	2 Mp 40	10°18	0°36	9° 1	15°R54	17° 2	21° 3	1°45	T 2
F 3	14 43 30	12°30'46	26° 5	22°56	10°12	19°33	17°37	2°40	10°22	0°38	9° 2	15°53	16°59	21° 9	1°47	F 3
S 4	14 47 27	13°28'53	8) 14	24°39	11°26	20°12	17°41	2°40	10°25	0°40	9° 4	15°50	16°55	21°16	1°49	S 4
S 5	14 51 23	14°26'58	20°13	26°24	12°40	20°51	17°45	2°D40	10°28	0°41	9° 5	15°45	16°52	21°23	1°50	S 5
M 6	14 55 20	15°25'01	2 ° 7	28°11	13°54	21°30	17°49	2°40	10°31	0°43	9° 6	15°37	16°49	21°30	1°52	M 6
T 7	14 59 16	16°23'03	13°58	29°59	15° 8	22° 9	17°53	2°40	10°35	0°45	9° 8	15°28	16°46	21°36	1°54	T 7
W 8	15 3 13	17°21'04	25°49	1850	16°22	22°48	17°57	2°40	10°38	0°47	9° 9	15°17	16°43	21°43	1°56	W 8
T 9	15 7 10	18°19'03	7 8 43	3°43	17°36	23°27	18° 2	2°41	10°41	0°48	9°11	15° 6	16°39	21°50	1°57	T 9
F 10	15 11 6	19°17'00	19°41	5°37	18°50	24° 6	18° 6	2°41	10°45	0°50	9°12	14°55	16°36	21°56	1°59	F 10
S 11	15 15 3	20°14'57	1 Ⅱ 45	7°34	20° 4	24°45	18°11	2°42	10°48	0°52	9°13	14°47	16°33	22° 3	2° 1	S 11
S 12	15 18 59	21°12'51	13°55	9°32	21°18	25°24	18°16	2°43	10°51	0°53	9°15	14°40	16°30	22°10	2° 2	S 12
M13	15 22 56	22°10'44	26°13	11°32	22°32	26° 3	18°21	2°44	10°55	0°55	9°16	14°36	16°27	22°17	2° 3	M13
T 14	15 26 52	23° 8'35	8 9 42	13°33	23°46	26°42	18°27	2°45	10°58	0°56	9°17	14°D34	16°24	22°23	2° 5	T 14
W15	15 30 49	24° 6'25	21°24	15°37	25° 0	27°21	18°32	2°46	11° 2	0°58	9°19	14°34	16°20	22°30	2° 6	W15
T 16	15 34 45	25° 4'13	4 Ω 21	17°42	26°13	28° 0	18°38	2°47	11° 5	0°59	9°20	14°35	16°17	22°37	2° 7	T 16
F 17	15 38 42	26° 1'59	17°37	19°48	27°27	28°39	18°43	2°48	11° 8	1° 1	9°21	14°36	16°14	22°43	2° 8	F 17
S 18	15 42 39	26°59'44	1 m) 13	21°56	28°41	29°18	18°49	2°49	11°12	1° 2	9°23	14°R37	16°11	22°50	2°10	S 18
S 19	15 46 35	27°57'27	15°13	24° 5	29°55	29°56	18°55	2°51	11°15	1° 4	9°24	14°35	16° 8	22°57	2°11	S 19
M20	15 50 32	28°55'08	29°34	26°15	1 II 9	0935	19° 2	2°52	11°19	1° 5	9°25	14°32	16° 5	23° 4	2°12	M20
T 21	15 54 28	29°52'48	14 ≏ 16	28°26	2°22	1°14	19° 8	2°54	11°22	1° 7	9°26	14°27	16° 1	23°10	2°13	T 21
W22	15 58 25	0Ⅲ50′26	29°11	0Д37	3°36	1°53	19°14	2°56	11°26	1° 8	9°28	14°21	15°58	23°17	2°14	W22
T 23	16 2 21	1°48'02	14 M .14	2°49	4°50	2°32	19°21	2°58	11°29	1° 9	9°29	14°15	15°55	23°24	2°14	T 23
F 24	16 6 18	2°45'38	29°13	5° 1	6° 4	3°10	19°28	3° 0	11°33	1°11	9°30	14° 9	15°52	23°31	2°15	F 24
S 25	16 10 14	3°43'12	14 % 1	7°12	7°18	3°49	19°35	3° 2	11°36	1°12	9°32	14° 5	15°49	23°37	2°16	S 25
S 26	16 14 11	4°40'45	28°29	9°24	8°31	4°28	19°42	3° 4	11°40	1°13	9°33	14° 2	15°45	23°44	2°17	S 26
M27	16 18 8	5°38'18	12 る 32	11°34	9°45	5° 6	19°49	3° 6	11°43	1°14	9°34	14°D 1	15°42	23°51	2°17	M27
T 28	16 22 4	6°35'49	26° 9	13°43	10°59	5°45	19°56	3° 9	11°47	1°16	9°35	14° 1	15°39	23°57	2°18	T 28
W29	16 26 1	7°33'19	9≈20	15°51	12°13	6°24	20° 3	3°11	11°50	1°17	9°37	14° 3	15°36	24° 4	2°18	W29
T 30	16 29 57	8°30'49	22° 7	17°57	13°26	7° 2	20°11	3°14	11°54	1°18	9°38	14° 4	15°33	24°11	2°19	T 30
F 31	16 33 54	9 Ⅲ 28'17	4) (34	20Ⅱ 2	14 Ⅱ 40	<i>7</i> 9541	20 Ω 19	3 Mp 16	11 Ⅱ 58	1 Υ 19	9 8 39	14°R 5	15 云 30	24 Y 18	2) 19	F 31

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S 5 M 6 T 7 W 8 T 9	16 11 16 28 16 45 17 2 17 18	10 10 5 4 14 37 4 59	8 52 2 4 9 37 1 0 10 22 1	2 6 15 17 0 1 59 15 40 0 1 52 16 4 0	0 49 24 11 0 47 24 14 0 45 24 17 0 43 24 19 0 41 24 21	1 3 1 3 1 3 1 4 1 4		1 2 1 2 1 1 1 1 1 1	12 16 12 16 12 16	1 52 1 52 1 52 1 52 1 52	22 1 22 2 22 2	0 1	0 56 1 0 55 1 0 55 1 0 54 1 0 53 1	19 0 2 19 0 2 19 0 2	28 15 48 28 15 48 28 15 48 27 15 48 27 15 48	22 33 22 34 22 35	22 24 22 24 22 25	13 8 13 11 13 13	5 14 5 13 5 12 5 11 5 10	5 59 5 59 6 0 6 0 6 0
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M13 T 14 W15 T 16 F 17 S 18	18 20 18 34 18 49 19 3 19 17 19 30	23 42 0 32 21 9 0s33 17 30 1 45 12 54 2 48	2 14 58 1 7 15 43 0 5 16 29 0 8 17 13 0	1 0 18 14 0 0 50 18 35 0 0 40 18 54 0 0 30 19 14 0	0 32 24 29 0 30 24 30 0 28 24 31 0 26 24 32 0 23 24 32 0 21 24 33	1 5 1 5 1 5 1 5 1 5 1 6	16 15 16 13	1 1 1 1 1 1 1 0 1 0 1 0	12 12	1 51 1 51 1 51 1 51 1 51 1 50		0 1 0 1 0 1 0 1	0 51 1 0 50 1 0 50 1 0 49 1 0 49 1 0 48 1	19 0 2 19 0 2 19 0 2 19 0 2	25	22 40 22 40 22 40 22 39	22 27 22 27 22 28 22 28	13 30 13 33 13 35	5 7 5 6 5 6 5 5 5 4 5 3	6 2 6 2 6 2 6 2 6 3 6 3
S 19 M20 T 21 W22 T 23 F 24 S 25	20 32	4s23	3 20 1 0 3 20 40 0 3 21 17 0 21 51 0	On 2 20 8 0 O 12 20 25 0	7 24 32	1 6 1 6 1 6 1 6 1 6 1 7 1 7	16 5 16 3 16 1 15 59 15 56	1 0 1 0 1 0 1 0 1 0 1 0 1 0	12 10 12 9 12 9 12 8 12 7	1 50 1 50 1 50	22 8 22 9 22 9 22 10 22 10	0 1 0 1	0 48 1 1 0 47 1 1 0 46 1 1 0 46 1 1 0 45 1 1 0 45 1 1 1 0 45 1 1 1 0 45 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 0 2 20 0 2 20 0 2 20 0 2 20 0 2		22 40 22 40 22 41 22 42 22 42	22 29 22 30 22 30 22 30 22 31	13 42 13 45 13 47 13 50 13 52	5 3 5 2 5 1 5 1 5 0 5 0 4 59	6 3 6 4 6 4 6 4 6 5 6 5 6 5
W29 T 30	21 16 21 26	23 0 0 8 19 52 1n 6 15 47 2 13 11 7 3 13	3 23 21 1 5 23 46 1 8 24 8 1 8 24 28 1	1 11 21 56 0 1 19 22 9 0 1 27 22 21 0 1 34 22 33 0	5 24 25	1 7 1 7 1 7 1 7	15 47 15 45	0 59 0 59 0 59 0 59 0 59 0 n59	12 4 12 3 12 2	1 49 1 49 1 49 1 49	22 11 22 12 22 12 22 13 22 13 22n14	0 1 0 1 0 1	0 44 1 1 0 44 1 1 0 43 1 1 0 43 1 1 0 42 1 1 0 s42 1 s	20 0 2 20 0 2 20 0 2 20 0 2	11 15 49 11 15 49 11 15 49 11 15 50 10 15 50 10 15 s50	22 43 22 43 22 43 22 43	22 32 22 32 22 33 22 33	13 59 14 2 14 4 14 7	4 59 4 58 4 58 4 57 4 57 4 57	6 6 6 6 6 7 6 7 6n 7

Julian Day Number = 2400896.5, Delta T = 8.95 sec Ecliptic obliquity = $23^{\circ}27'29$, Nutation = $0^{\circ}00'15$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}48'14$, Lahiri = $21^{\circ}55'14$

JUNE 1861 00:00 UT

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S 2	16 41 47	11°23'12	28°46	24° 6	17° 7	8°58	20°34	3°22	12° 5	1°21	9°41	14궁 4	15°23	24°31	2°19	S 2
M 3	16 45 43	12°20'39	10 Υ 40	26° 5	18°21	9°37	20°42	3°25	12° 8	1°22	9°43	14° 1	15°20	24°38	2°20	M 3
T 4	16 49 40	13°18'04	22°31	28° 1	19°35	10°15	20°50	3°28	12°12	1°23	9°44	13°57	15°17	24°45	2°20	T 4
W 5	16 53 37	14°15'29	4824	29°55	20°49	10°54	20°59	3°31	12°15	1°24	9°45	13°52	15°14	24°51	2°R20	W 5
T 6	16 57 33	15°12'54	16°22	19547	22° 2	11°32	21° 7	3°34	12°19	1°25	9°46	13°47	15°11	24°58	2°20	T 6
F 7	17 1 30	16°10'18	28°26	3°36	23°16	12°11	21°15	3°37	12°22	1°26	9°47	13°42	15° 7	25° 5	2°20	F 7
S 8	17 5 26	17° 7'41	10 Ⅱ 39	5°23	24°30	12°49	21°24	3°41	12°26	1°27	9°48	13°39	15° 4	25°11	2°20	S 8
S 9	17 9 23	18° 5'03	23° 2	7° 7	25°43	13°28	21°33	3°44	12°29	1°28	9°49	13°36	15° 1	25°18	2°19	S 9
M10	17 13 19	19° 2'25	5937	8°48	26°57	14° 6	21°42	3°48	12°33	1°29	9°51	13°34	14°58	25°25	2°19	M10
T 11	17 17 16	19°59'45	18°23	10°28	28°11	14°45	21°51	3°52	12°36	1°29	9°52	13°D34	14°55	25°32	2°19	T 11
W12	17 21 13	20°57'05	1 N 22	12° 4	29°24	15°23	22° 0	3°55	12°40	1°30	9°53	13°35	14°51	25°38	2°19	W12
T 13	17 25 9	21°54'24	14°35	13°38	0938	16° 1	22° 9	3°59	12°43	1°31	9°54	13°36	14°48	25°45	2°18	T 13
F 14	17 29 6	22°51'43	28° 3	15° 9	1°52	16°40	22°18	4° 3	12°47	1°31	9°55	13°38	14°45	25°52	2°18	F 14
S 15	17 33 2	23°49'00	11 m) 45	16°38	3° 5	17°18	22°27	4° 7	12°50	1°32	9°56	13°39	14°42	25°58	2°17	S 15
S 16	17 36 59	24°46'16	25°43	18° 3	4°19	17°57	22°37	4°11	12°54	1°33	9°57	13°R39	14°39	26° 5	2°16	S 16
M17	17 40 55	25°43'32	9 ≏ 55	19°27	5°33	18°35	22°46	4°15	12°57	1°33	9°58	13°39	14°36	26°12	2°16	M17
T 18	17 44 52	26°40'47	24°20	20°47	6°46	19°13	22°56	4°20	13° 1	1°34	9°59	13°38	14°32	26°19	2°15	T 18
W19	17 48 48	27°38'01	8 M .53	22° 5	8° 0	19°52	23° 6	4°24	13° 4	1°34	10° 0	13°36	14°29	26°25	2°14	W19
T 20	17 52 45	28°35'14	23°30	23°19	9°14	20°30	23°15	4°28	13° 8	1°35	10° 1	13°34	14°26	26°32	2°14	T 20
F 21	17 56 42	29°32'27	8 √ 5	24°31	10°27	21° 8	23°25	4°33	13°11	1°35	10° 2	13°32	14°23	26°39	2°13	F 21
S 22	18 0 38	09529'40	22°31	25°40	11°41	21°47	23°35	4°37	13°15	1°36	10° 3	13°31	14°20	26°46	2°12	S 22
S 23	18 435	1°26'52	6 云 43	26°46	12°54	22°25	23°45	4°42	13°18	1°36	10° 4	13°D30	14°17	26°52	2°11	S 23
M24	18 8 31	2°24'03	20°37	27°49	14° 8	23° 3	23°56	4°47	13°21	1°37	10° 5	13°30	14°13	26°59	2°10	M24
T 25	18 12 28	3°21'15	4≈ 9	28°48	15°22	23°42	24° 6	4°51	13°25	1°37	10° 6	13°31	14°10	27° 6	2° 9	T 25
W26	18 16 24	4°18'26	17°19	29°45	16°35	24°20	24°16	4°56	13°28	1°37	10° 6	13°32	14° 7	27°12	2° 7	W26
T 27	18 20 21	5°15'38	0 ∺ 7	0 Ω 38	17°49	24°58	24°27	5° 1	13°32	1°37	10° 7	13°33	14° 4	27°19	2° 6	T 27
F 28	18 24 17	6°12'49	12°37	1°27	19° 2	25°36	24°37	5° 6	13°35	1°38	10° 8	13°33	14° 1	27°26	2° 5	F 28
S 29	18 28 14	7°10'01	24°51	2°13	20°16	26°15	24°48	5°11	13°38	1°38	10° 9	13°34	13°57	27°33	2° 4	S 29
S 30	18 32 11	89 7'12	6 Υ 53	2 N 55	219529	26953	24 Ω 58	5 m 16	13 Ⅱ 42	1 Y 38	10810	13°R34	13 る 54	27 Y 39	2 ∺ 2	S 30

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S 2	22 10	4n 6	-	25 10	1 51			24 17	1 8			11 58		22 14	-	0 41	1 20	0 20 1					4 55	6 8
M 3	22 18	8 59		25 19	1 55			24 14	1 8		0 59		1 48		-	0 41	1 20	0 20 13					4 55	6 8
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T 6		20 57		25 30		23 37	0 24			15 24	0 58	-	1 48	-		0 40	1 20	0 19 1:					4 54	6 9
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S 9	22 55	25 7	1 50	25 20	2 5	23 54	0 31	23 55	1 9	15 15	0 58	11 49	1 48	22 18	0 1	0 39	1 21	0 19 1:	5 51	22 46	22 37	14 30	4 53	6 10
M10		24 4	0 44	25 13	2 4		0 33		1 9		0 58	-	1 47	-	0 1	0 39	1 21	0 18 13	-	-			4 53	6 11
T 11	-	21 46		-	2 2			23 47	1 9		0 58	-	1 47	-	-	0 38	1 21	0 18 1:					4 53	6 11
W12 T 13		18 18 13 53		24 53 24 41	1 59 1 56		0 38		1 9		0 58 0 58		1 47 1 47		-	0 38 0 38	1 21	0 18 1: 0 18 1:					4 53 4 53	6 11 6 12
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S 15	23 19	3 2	-	24 12	1 47			23 29		14 57		11 40		22 21	0 1	0 37	1 21	0 18 13					4 52	6 12
S 16	23 21	2 s 5 3	5 0	23 56	1 42	24 9	0 46	23 24	1 9	14 54	0 58	11 38	1 47	22 21	0 1	0 37	1 21	0 18 13	5 53	22 45	22 39	14 46	4 52	6 13
M17	23 23	8 45	5 15	23 38	1 36	24 9	0 48	23 19	1 9	14 51	0 58	11 37	1 47		0 1	0 37	1 21	0 18 13	5 53	22 45	22 39	14 49	4 52	6 13
		14 14		23 19	1 30		0 50			14 47		11 35		22 22		0 37	1 21	0 17 13					4 52	6 13
W19 T 20	-	18 58 22 34	4 45	23 0 22 40	1 22 1 14		0 52 0 54			14 44 14 41	0 57 0 57		1 46 1 46			0 37 0 37	1 21 1 21	0 17 1: 0 17 1:					4 52 4 52	6 13 6 14
F 21	23 27			22 40	1 14		0 56			14 41	0 57	_	1 46			0 37	1 21	0 17 13					4 52	6 14
S 22	23 27			21 57		23 55		22 50		14 34		11 28		22 24		0 36	1 21	0 17 13					4 52	6 14
S 23	23 27	23 55	0 37	21 35	0 47	23 50	1 0	22 44	1 10	14 31	0 57	11 26	1 46	22 24	0 1	0 36	1 21	0 17 13	5 54	22 46	22 42	15 3	4 52	6 15
M24	23 26	21 14	0n39	21 13	0 37	23 44	1 2	22 38	1 10	14 27	0 57	11 25	1 46	22 25	0 1	0 36	1 21	0 17 13	5 54	22 46	22 42	15 5	4 52	6 15
T 25	23 25		-	20 50		23 38		22 31		14 24		11 23		22 25		0 36	1 21	0 17 13					4 52	6 15
	-	12 51		20 28		23 31		22 25		14 20		11 21	1 46	-		0 36	1 21	0 17 13					4 53	6 16
T 27 F 28	23 21 23 19	7 50 2 38		20 5 19 42		23 23 23 14	1 7 1 9	22 18 22 11		14 17		11 19	1 46	_	-	0 36 0 36	1 21 1 22	0 17 1: 0 17 1:					4 53 4 53	6 16
S 29	23 19	2 38 2n33		19 42	0 22			22 11		14 13 14 10		11 17 11 15	1 46	22 26 22 27	-	0 36	1 22	0 17 13						6 16 6 16
3 30	23n13	7n33	31115	18n57	0836	22n56	11112	21n56	11110	14n 6	uns /	11n13	11145	22n27	0s 1	0s36	1 s22	0s17 1:	3 S30	22 S40	22 S44	13118	4 s 5 3	6n17

Julian Day Number = 2400927.5, Delta T = 8.96 sec Ecliptic obliquity = $23^{\circ}27'28$, Nutation = $0^{\circ}00'16$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}48'18$, Lahiri = $21^{\circ}55'19$

JULY 1861 00:00 UT

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M 1	18 36 7	99 4'24	18 Y 49	3 Ω 34	229543	27931	25⋒ 9	5 m 22	13 Ⅱ 45	1 Y 38	10811	13°R34	13 る 51	27 Y 46	2°R 1	M 1
T 2	18 40 4	10° 1'36	0 8 42	4° 8	23°56	28° 9	25°20	5°27	13°48	1°38	10°11	13 る 34	13°48	27°53	1 米 59	T 2
W 3	18 44 0	10°58'49	12°36	4°38	25°10	28°48	25°31	5°32	13°51	1°38	10°12	13°33	13°45	27°59	1°58	W 3
T 4	18 47 57	11°56'01	24°37	5° 4	26°24	29°26	25°42	5°38	13°55	1°38	10°13	13°33	13°42	28° 6	1°56	T 4
F 5	18 51 53	12°53'14	6∏47	5°26	27°37	0Ω 4	25°53	5°43	13°58	1°R38	10°14	13°33	13°38	28°13	1°54	F 5
S 6	18 55 50	13°50'27	19° 9	5°43	28°51	0°42	26° 4	5°49	14° 1	1°38	10°14	13°D33	13°35	28°20	1°53	S 6
S 7	18 59 46	14°47'41	19546	5°56	0 Ω 4	1°20	26°15	5°54	14° 4	1°38	10°15	13°33	13°32	28°26	1°51	S 7
M 8	19 3 43	15°44'54	14°38	6° 4	1°18	1°59	26°26	6° 0	14° 7	1°38	10°16	13°R33	13°29	28°33	1°49	M 8
T 9	19 7 40	16°42'08	27°46	6°R 8	2°31	2°37	26°38	6° 6	14°10	1°38	10°16	13°33	13°26	28°40	1°47	T 9
W10	19 11 36	17°39'22	11 0 9	6° 6	3°45	3°15	26°49	6°12	14°14	1°38	10°17	13°33	13°23	28°46	1°46	W10
T 11	19 15 33	18°36'36	24°46	6° 0	4°58	3°53	27° 1	6°17	14°17	1°38	10°18	13°32	13°19	28°53	1°44	T 11
F 12	19 19 29	19°33'50	8 m /35	5°49	6°12	4°31	27°12	6°23	14°20	1°38	10°18	13°31	13°16	29° 0	1°42	F 12
S 13	19 23 26	20°31'04	22°34	5°34	7°25	5° 9	27°24	6°29	14°23	1°37	10°19	13°31	13°13	29° 7	1°40	S 13
S 14	19 27 22	21°28'18	6 ₽ 41	5°14	8°39	5°48	27°35	6°35	14°26	1°37	10°19	13°30	13°10	29°13	1°38	S 14
M15	19 31 19	22°25'32	20°53	4°49	9°52	6°26	27°47	6°41	14°29	1°37	10°20	13°D30	13° 7	29°20	1°35	M15
T 16	19 35 15	23°22'47	5 ™ 7	4°21	11° 6	7° 4	27°59	6°48	14°32	1°36	10°20	13°30	13° 3	29°27	1°33	T 16
W17	19 39 12	24°20'01	19°23	3°49	12°19	7°42	28°10	6°54	14°35	1°36	10°21	13°31	13° 0	29°33	1°31	W17
T 18	19 43 9	25°17'16	3 ∡ ³35	3°14	13°33	8°20	28°22	7° 0	14°37	1°36	10°21	13°32	12°57	29°40	1°29	T 18
F 19	19 47 5	26°14'31	17°43	2°36	14°46	8°58	28°34	7° 6	14°40	1°35	10°22	13°33	12°54	29°47	1°27	F 19
S 20	19 51 2	27°11'47	1 る 42	1°56	16° 0	9°36	28°46	7°13	14°43	1°35	10°22	13°33	12°51	29°54	1°24	S 20
S 21	19 54 58	28° 9'03	15°29	1°15	17°13	10°14	28°58	7°19	14°46	1°34	10°23	13°R34	12°48	0 8 0	1°22	S 21
M22	19 58 55	29° 6'19	29° 3	0°32	18°26	10°53	29°10	7°26	14°49	1°34	10°23	13°33	12°44	0° 7	1°20	M22
T 23	20 2 51	0 ⋒ 3'36	12≈21	29950	19°40	11°31	29°22	7°32	14°52	1°33	10°23	13°32	12°41	0°14	1°17	T 23
W24	20 6 48	1° 0'53	25°22	29° 8	20°53	12° 9	29°34	7°39	14°54	1°32	10°24	13°30	12°38	0°21	1°15	W24
T 25	20 10 45	1°58'12	8 ∀ 6	28°28	22° 6	12°47	29°47	7°45	14°57	1°32	10°24	13°27	12°35	0°27	1°12	T 25
F 26	20 14 41	2°55'31	20°33	27°50	23°20	13°25	29°59	7°52	15° 0	1°31	10°25	13°24	12°32	0°34	1°10	F 26
S 27	20 18 38	3°52'51	2 Ƴ 47	27°15	24°33	14° 3	0 m y 11	7°58	15° 2	1°30	10°25	13°22	12°29	0°41	1° 7	S 27
S 28	20 22 34	4°50'12	14°50	26°43	25°47	14°41	0°23	8° 5	15° 5	1°30	10°25	13°20	12°25	0°47	1° 4	S 28
M29	20 26 31	5°47'34	26°45	26°16	27° 0	15°19	0°36	8°12	15° 7	1°29	10°25	13°18	12°22	0°54	1° 2	M29
T 30	20 30 27	6°44'58	8 8 38	25°54	28°13	15°57	0°48	8°19	15°10	1°28	10°26	13°D18	1 <u>2</u> °19	1° 1	0°59	T 30
W31	20 34 24	7 Ω 42'22	20833	25936	29 Ω 26	16 Ω 35	1 m y 1	8 m 26	15 Ⅱ 12	1 Y 27	10826	13 る 19	12 ਰ 16	18 8	0 ∺ 57	W31

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M 1 T 2	23n 9 23 5	12n14 5r 16 27 5	n15 18n35 3 18 13		-	-	14n 2 13 59	0n57 0 57		-	22n27 22 28	0s 1 0 1		1 s22 1 22	0s17 15s56 0 17 15 56			-	4 s 5 4 4 5 4	6n17
W 3 T 4	23 0 22 55	-	37 17 52 59 17 32				13 55 13 51	0 57 0 57		1 45 1 45	22 28 22 29			1 22 1 22	0 17 15 57 0 17 15 57		_		4 54 4 55	6 17 6 18
F 5 S 6	22 50 22 44		10 17 12 11 16 53				13 47 13 44	0 57 0 57	_		-	-		1 22 1 22	0 17 15 57 0 17 15 57				4 55 4 55	6 18 6 18
S 7 M 8 T 9 W10 T 11	22 32 22 25 22 18 22 10	22 33 0s 19 21 1 15 5 2 10 0 3	5 16 36 s 6 16 19 18 16 4 27 15 50 29 15 38	2 32 21 2 47 20 3 1 20 3 16 20	14	52 1 10 14 1 10 15 1 10 16 1 10	13 40 13 36 13 32 13 28 13 24	0 56 0 56 0 56 0 56	10 54 10 52 10 50	1 45 1 45 1 45 1 45	22 31 22 31 22 31	0 1 0 1 0 1 0 1	0 36 0 36 0 36 0 36	1 22 1 22 1 22 1 22 1 22	0 17 15 58 0 17 15 58 0 17 15 58 0 17 15 59 0 17 15 59	3 22 46 3 22 46 9 22 46 9 22 46	22 46 22 47 22 47 22 47	15 36 15 39 15 41 15 43	4 56 4 56 4 56 4 57 4 57	6 18 6 19 6 19 6 19 6 19
F 12 S 13	22 2 21 53	1 s34 4	20 15 27 56 15 17	3 43 19		7 1 10	13 20 13 16	0 56 0 56	10 45	1 44	22 32	0 1	0 37	1 22 1 22	0 18 15 59 0 18 15 59	22 46	22 48	15 47	4 58 4 58	6 20 6 20
S 14 M15 T 16 W17 T 18 F 19 S 20	21 6 20 55	13 0 5 17 51 4 21 42 4 24 13 3	14 15 10 14 15 4 54 15 0 17 14 57 23 14 57 18 14 58 5 15 2	4 8 19 4 19 18 4 29 18 4 37 18 4 44 17	13	19 1 10 19 1 10 19 1 10 19 1 10 19 1 10	13 4	0 56 0 56 0 56 0 56 0 56 0 56 0 56	10 41 10 38 10 36 10 33	1 44 1 44 1 44 1 44	22 33 22 33 22 33 22 34 22 34	0 1 0 1 0 1 0 1 0 1	0 37 0 37 0 37 0 38 0 38	1 22 1 22 1 22 1 23 1 23 1 23 1 23	0 18 16 0 0 18 16 0 0 18 16 1 0 18 16 1 0 18 16 1		22 49 22 49 22 49 22 50 22 50	15 52 15 54 15 56 15 58 16 0	4 59 4 59 5 0 5 1 5 1 5 2 5 2	6 20 6 20 6 20 6 21 6 21 6 21 6 21
S 21 M22 T 23 W24 T 25 F 26 S 27		18 59 1 14 40 2 9 46 3 4 34 4	n11 15 7 25 15 13 32 15 21 31 15 31 17 15 41 50 15 53 9 16 6	4 57 16 4 56 16 4 54 15 4 49 15	23	88 1 10 28 1 10 7 1 10 6 1 10 55 1 10	12 43 12 39 12 35 12 30 12 26 12 22 12 17	0 56 0 56 0 56 0 56 0 56 0 56 0 56	10 21 10 19 10 16 10 14	1 44 1 44 1 44	22 35 22 35 22 36 22 36 22 36	0 0 0 0 0 0 0 0	0 39 0 39 0 39 0 40 0 40	1 23 1 23 1 23 1 23 1 23 1 23 1 23	0 19 16 2 0 19 16 3 0 19 16 3 0 20 16 3 0 20 16 3	2 22 46 2 22 46 2 22 46 3 22 46 3 22 47 3 22 47 4 22 47	22 51 22 51 22 51 22 52 22 52	16 7 16 9 16 11 16 13 16 15	5 3 5 4 5 4 5 5 5 6 5 7 5 7	6 21 6 22 6 22 6 22 6 22 6 22 6 22 6 22
S 28 M29 T 30 W31	18 50 18 36	15 4 5 18 52 4	14 16 20 6 16 34 44 16 48 n11 17n 3	4 26 13 4 15 13	57 1 32 17 2 32 1 31 17 3	22 1 9	12 13 12 9 12 4 12n 0	0 56 0 56	10 6	1 44	22 37	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 41 0 41	1 23 1 23 1 23 1 s23	0 20 16 4	22 47 22 48 5 22 48 5 22 s48	22 53 22 53	16 22 16 24	5 8 5 9 5 10 5 11	6 22 6 23 6 23 6n23

Julian Day Number = 2400957.5, Delta T = 8.96 sec Ecliptic obliquity = $23^{\circ}27'28$, Nutation = $0^{\circ}00'17$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}48'22$, Lahiri = $21^{\circ}55'23$

AUGUST 1861 00:00 UT

Day	Sid.t	\odot	D	ğ	φ	♂	4	ħ)f(卉	Р	r	Ω	Ç	o K	Day
T 1	20 38 20	8 Ω 39'48	2 П 34	25°R25	0 Mp 40	17 Ω 14	1 m 13	8 m 32	15 Ⅱ 15	1°R27	10826	13る20	12る13	1814	0°R54	T 1
F 2	20 42 17	9°37'15	14°47	25°D19	1°53	17°52	1°26	8°39	15°17	1 Y 26	10°26	13°22	12° 9	1°21	0 ∀ 51	F 2
S 3	20 46 13	10°34'43	27°15	25920	3° 6	18°30	1°38	8°46	15°19	1°25	10°26	13°23	12° 6	1°28	0°48	S 3
S 4	20 50 10	11°32'12	1095 1	25°27	4°20	19° 8	1°51	8°53	15°22	1°24	10°27	13°R24	12° 3	1°34	0°46	S 4
M 5	20 54 7	12°29'43	23° 8	25°41	5°33	19°46	2° 3	9° 0	15°24	1°23	10°27	13°23	12° 0	1°41	0°43	M 5
T 6	20 58 3	13°27'14	6 Ω 35	26° 2	6°46	20°24	2°16	9° 7	15°26	1°22	10°27	13°22	11°57	1°48	0°40	T 6
W 7	21 2 0	14°24'47	20°23	26°29	7°59	21° 2	2°29	9°14	15°29	1°21	10°27	13°19	11°54	1°55	0°37	W 7
T 8	21 5 56	15°22'20	4 Mp 27	27° 3	9°13	21°40	2°41	9°21	15°31	1°20	10°27	13°14	11°50	2° 1	0°34	T 8
F 9	21 9 53	16°19'55	18°44	27°44	10°26	22°19	2°54	9°29	15°33	1°19	10°27	13°10	11°47	2°8	0°31	F 9
S 10	21 13 49	17°17'31	3 ₾ 7	28°32	11°39	22°57	3° 7	9°36	15°35	1°18	10°R27	13° 5	11°44	2°15	0°28	S 10
S 11	21 17 46	18°15'07	17°33	29°26	12°52	23°35	3°20	9°43	15°37	1°17	10°27	13° 1	11°41	2°21	0°25	S 11
M12	21 21 42	19°12'45	1 M .55	$0\Omega_{26}$	14° 5	24°13	3°32	9°50	15°39	1°16	10°27	12°58	11°38	2°28	0°23	M12
T 13	21 25 39	20°10'23	16°11	1°33	15°18	24°51	3°45	9°57	15°41	1°15	10°27	12°D57	11°35	2°35	0°20	T 13
W14	21 29 36	21° 8'03	0 ∡ 17	2°45	16°32	25°29	3°58	10° 5	15°43	1°13	10°27	12°57	11°31	2°42	0°17	W14
T 15	21 33 32	22° 5'43	14°13	4° 3	17°45	26° 7	4°11	10°12	15°45	1°12	10°27	12°58	11°28	2°48	0°14	T 15
F 16	21 37 29	23° 3'25	27°58	5°27	18°58	26°45	4°24	10°19	15°47	1°11	10°27	13° 0	11°25	2°55	0°11	F 16
S 17	21 41 25	24° 1'07	11 る 32	6°55	20°11	27°24	4°37	10°27	15°48	1°10	10°26	13°R 0	11°22	3° 2	0° 8	S 17
S 18	21 45 22	24°58'51	24°54	8°29	21°24	28° 2	4°50	10°34	15°50	1° 9	10°26	13° 0	11°19	3°8	0° 5	S 18
M19	21 49 18	25°56'36	8≈ 5	10° 6	22°37	28°40	5° 3	10°41	15°52	1° 7	10°26	12°57	11°15	3°15	0° 2	M19
T 20	21 53 15	26°54'22	21° 3	11°48	23°50	29°18	5°16	10°49	15°53	1° 6	10°26	12°53	11°12	3°22	29≈59	T 20
W21	21 57 12	27°52'10	3){ 49	13°33	25° 3	29°56	5°29	10°56	15°55	1° 5	10°26	12°46	11° 9	3°29	29°56	W21
T 22	22 1 8	28°49'59	16°22	15°21	26°16	0 ₯ 34	5°42	11° 4	15°57	1° 3	10°25	12°38	11° 6	3°35	29°53	T 22
F 23	22 5 5	29°47'50	28°42	17°12	27°29	1°12	5°55	11°11	15°58	1° 2	10°25	12°30	11° 3	3°42	29°50	F 23
S 24	22 9 1	0 Mp 45'42	10 Y 52	19° 5	28°42	1°51	6° 7	11°18	16° 0	1° 1	10°25	12°21	11° 0	3°49	29°47	S 24
S 25	22 12 58	1°43'36	22°52	20°59	29°55	2°29	6°21	11°26	16° 1	0°59	10°25	12°14	10°56	3°55	29°44	S 25
M26	22 16 54	2°41'31	4846	22°55	1 ♀ 7	3° 7	6°34	11°33	16° 2	0°58	10°24	12° 8	10°53	4° 2	29°41	M26
T 27	22 20 51	3°39'29	16°37	24°52	2°20	3°45	6°47	11°41	16° 4	0°56	10°24	12° 5	10°50	4° 9	29°38	T 27
W28	22 24 47	4°37'28	28°30	26°50	3°33	4°23	7° 0	11°48	16° 5	0°55	10°24	12° 3	10°47	4°16	29°35	W28
T 29	22 28 44	5°35'30	10∏29	28°48	4°46	5° 2	7°13	11°56	16° 6	0°54	10°23	12°D 3	10°44	4°22	29°32	T 29
F 30	22 32 40	6°33'33	22°40	0 m 46	5°59	5°40	7°26	12° 3	16° 8	0°52	10°23	12° 4	10°40	4°29	29°29	F 30
S 31	22 36 37	7 m 31'38	595 8	2 m 44	7 ≙ 12	6 M 18	7 m 39	12 m 11	16耳 9	0 Υ 51	10822	12 る 4	10 る 37	4 8 36	29≈26	S 31

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S 4 M 5 T 6 W 7 T 8 F 9 S 10	17 20 17 4 16 48 16 31 16 14 15 57 15 40	20 36 0s53 16 39 2 3 11 44 3 8 6 7 4 3 0 7 4 43	18 14 2 5 18 26 2 3- 18 37 2 13 18 47 2 18 55 1 43	1 10 51 1 28 4 10 23 1 27 8 9 54 1 26 1 9 26 1 25 5 8 57 1 24	15 59 1 9 15 47 1 9 15 35 1 9 15 23 1 9 15 10 1 9	11 42 0 56 11 37 0 56 11 33 0 56 11 28 0 56 11 24 0 56 11 19 0 56 11 14 0 56	9 51 1 43 9 48 1 43 9 45 1 43 9 42 1 43 9 40 1 43 9 37 1 43 9 34 1 43	22 39 0 0 22 39 0 0 22 40 0 0 22 40 0 0 22 40 0 0	0 43 1 23 0 44 1 23 0 44 1 23 0 45 1 24 0 45 1 24	0 22 16 6 0 22 16 7 0 23 16 7 0 23 16 7 0 23 16 8	22 47 22 55 22 47 22 55 22 47 22 55 22 47 22 56 22 48 22 56 22 48 22 56 22 49 22 56	5 16 37 5 16 39 5 16 41 6 16 43 6 16 45	5 14 6 23 5 15 6 23 5 16 6 23 5 17 6 23 5 18 6 23 5 19 6 23 5 20 6 24
S 11 M12 T 13 W14 T 15 F 16 S 17	15 22 15 4 14 46 14 28 14 9 13 51 13 32	11 40 5 10 16 45 4 54 20 51 4 20 23 40 3 31 25 0 2 30 24 47 1 21	19 7 1 12 19 9 0 50 19 10 0 4 19 9 0 20 19 4 0 1	2 7 59 1 22 6 7 30 1 20 1 7 0 1 19 6 6 31 1 18 1 6 1 1 16 3 5 31 1 15	14 45 1 8 14 32 1 8 14 19 1 8 14 6 1 8 13 53 1 8 13 40 1 8	11 10 0 56 11 5 0 56 11 1 0 56 10 56 0 56 10 51 0 56 10 47 0 56	9 32 1 43 9 29 1 43 9 26 1 43 9 23 1 43 9 21 1 43 9 18 1 43 9 15 1 43	22 41 0 0 22 42 0 0	0 46 1 24 0 47 1 24 0 47 1 24 0 48 1 24 0 48 1 24 0 49 1 24	0 24 16 8 0 24 16 9 0 24 16 9 0 25 16 9 0 25 16 10 0 25 16 10	22 49 22 50 22 50 22 50 22 50 22 50 22 50 22 50 22 50 22 50 22 49 22 58 22 49 22 58 22 49 22 58	7 16 49 7 16 51 7 16 53 7 16 55 8 16 57 8 16 59	
S 18 M19 T 20 W21 T 22 F 23 S 24	13 12 12 53 12 33 12 13 11 53 11 33 11 13	16 9 2 11 11 29 3 11 6 24 4 0 1 9 4 36 4n 3 4 58	17 43 1 0 17 20 1 9 16 54 1 10	9 4 0 1 10 0 3 29 1 8 0 2 59 1 6 9 2 28 1 4 6 1 57 1 2	13 14 1 8 13 0 1 8 12 47 1 8 12 33 1 7 12 20 1 7 12 6 1 7 11 52 1 7	10 32 0 56 10 28 0 56 10 23 0 56 10 18 0 56 10 13 0 56	9 12 1 43 9 10 1 43 9 7 1 43 9 4 1 43 9 1 1 43 8 58 1 43 8 55 1 43	22 42 0 0 22 42 0 0 22 43 0 0 22 43 0 0 22 43 0 0	0 50 1 24 0 51 1 24 0 51 1 24 0 52 1 24 0 52 1 24	0 26 16 11 0 27 16 11 0 27 16 11 0 27 16 12	22 52 23 (17 5 17 7	5 28 6 24 5 29 6 24 5 30 6 24 5 31 6 24 5 32 6 23 5 33 6 23 5 34 6 23
S 25 M26 T 27 W28 T 29 F 30 S 31	10 31 10 10 9 49 9 28 9 7	17 34 4 44 20 51 4 13 23 17 3 32 24 42 2 41 24 57 1 42	14 10 1 42 13 32 1 44	4 0 24 0 56 9 0s 7 0 53 2 0 38 0 51 4 1 9 0 49 6 1 40 0 46	11 24 1 7 11 10 1 7 10 56 1 7 10 42 1 6 10 28 1 6	9 59 0 56 9 54 0 56 9 50 0 57 9 45 0 57 9 40 0 57	8 53 1 44 8 50 1 44 8 47 1 44 8 44 1 44 8 41 1 44 8 38 1 44 8n36 1n44	22 43 0 0 22 44 0 0 22 44 0 0 22 44 0 0	0 54 1 24 0 55 1 24 0 55 1 24 0 56 1 24	0 29 16 13 0 30 16 13 0 30 16 14 0 30 16 14	22 54 23 1 22 55 23 1 22 55 23 1 22 55 23 1	17 17 17 19 17 21 17 23 17 25 17 27 2 17 29	5 35 6 23 5 36 6 23 5 37 6 23 5 39 6 23 5 40 6 23 5 41 6 23 5 842 6n23

 $\label{eq:Julian Day Number = 2400988.5, Delta T = 8.96 sec} Ecliptic obliquity = 23°27'28, Nutation = 0°00'18, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 22°48'27, Lahiri = 21°55'27$

SEPTEMBER 1861 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂ [™]	4	ħ)∤(¥	Р	R	ß	Ç	ę,	Day
S 1	22 40 34	8 m 29'45	17957	4 Mp 42	8 ≏ 24	6 m 56	7 m 52	12 m /19	16 I I10	0°R49	10°R22	12°R 4	10 궁 34	4 8 42	29°R23	S 1
M 2	22 44 30	9°27'54	1 Q 11	6°39	9°37	7°35	8° 5	12°26	16°11	0 Υ 48	10822	12る 3	10°31	4°49	29≈20	M 2
T 3	22 48 27	10°26'05	14°51	8°35	10°50	8°13	8°18	12°34	16°12	0°46	10°21	11°59	10°28	4°56	29°17	T 3
W 4	22 52 23	11°24'18	28°56	10°31	12° 2	8°51	8°31	12°41	16°13	0°45	10°21	11°53	10°25	5° 2	29°14	W 4
T 5	22 56 20	12°22'32	13 m 23	12°25	13°15	9°29	8°44	12°49	16°14	0°43	10°20	11°44	10°21	5° 9	29°11	T 5
F 6	23 0 16	13°20'48	28° 6	14°19	14°28	10° 8	8°57	12°56	16°14	0°41	10°19	11°35	10°18	5°16	29° 8	F 6
S 7	23 4 13	14°19'06	12 ≏ 57	16°12	15°40	10°46	9°10	13° 4	16°15	0°40	10°19	11°25	10°15	5°23	29° 5	S 7
S 8	23 8 9	15°17'26	27°46	18° 3	16°53	11°24	9°23	13°11	16°16	0°38	10°18	11°17	10°12	5°29	29° 2	S 8
M 9	23 12 6	16°15'47	12 M 27	19°54	18° 6	12° 2	9°36	13°19	16°17	0°37	10°18	11°11	10° 9	5°36	29° 0	M 9
T 10	23 16 3	17°14'10	26°54	21°44	19°18	12°41	9°49	13°26	16°17	0°35	10°17	11° 7	10° 6	5°43	28°57	T 10
W11	23 19 59	18°12'34	11 🗷 3	23°32	20°31	13°19	10° 2	13°34	16°18	0°33	10°17	11° 5	10° 2	5°49	28°54	W11
T 12	23 23 56	19°11'00	24°54	25°19	21°43	13°57	10°15	13°42	16°18	0°32	10°16	11°D 5	9°59	5°56	28°51	T 12
F 13	23 27 52	20° 9'28	8 云 27	27° 6	22°56	14°36	10°28	13°49	16°19	0°30	10°15	11°R 6	9°56	6° 3	28°49	F 13
S 14	23 31 49	21° 7'57	21°44	28°51	24° 8	15°14	10°41	13°57	16°19	0°29	10°15	11° 5	9°53	6°10	28°46	S 14
S 15	23 35 45	22° 6'28	4≈46	0 ჲ 35	25°20	15°53	10°54	14° 4	16°20	0°27	10°14	11° 3	9°50	6°16	28°43	S 15
M16	23 39 42	23° 5'00	17°36	2°18	26°33	16°31	11° 6	14°12	16°20	0°25	10°13	10°58	9°46	6°23	28°40	M16
T 17	23 43 38	24° 3'34	0 ∺ 15	4° 0	27°45	17° 9	11°19	14°19	16°20	0°24	10°13	10°51	9°43	6°30	28°38	T 17
W18	23 47 35	25° 2'10	12°44	5°41	28°57	17°48	11°32	14°27	16°21	0°22	10°12	10°40	9°40	6°36	28°35	W18
T 19	23 51 32	26° 0'48	25° 4	7°21	0 M .10	18°26	11°45	14°34	16°21	0°20	10°11	10°28	9°37	6°43	28°33	T 19
F 20	23 55 28	26°59'27	7 Υ 14	9° 0	1°22	19° 4	11°58	14°41	16°21	0°19	10°10	10°14	9°34	6°50	28°30	F 20
S 21	23 59 25	27°58'09	19°17	10°38	2°34	19°43	12°11	14°49	16°21	0°17	10° 9	10° 1	9°31	6°57	28°28	S 21
S 22	0 3 21	28°56'53	1813	12°15	3°46	20°21	12°23	14°56	16°R21	0°15	10° 9	9°49	9°27	7° 3	28°25	S 22
M23	0 7 18	29°55'39	13° 4	13°51	4°58	21° 0	12°36	15° 4	16°21	0°14	10° 8	9°39	9°24	7°10	28°23	M23
T 24	0 11 14	0 ≏ 54'27	24°54	15°26	6°10	21°38	12°49	15°11	16°21	0°12	10° 7	9°31	9°21	7°17	28°20	T 24
W25	0 15 11	1°53'18	6 Ⅱ 45	17° 0	7°22	22°17	13° 1	15°18	16°21	0°10	10° 6	9°27	9°18	7°23	28°18	W25
T 26	0 19 7	2°52'10	18°42	18°33	8°34	22°55	13°14	15°26	16°20	0° 9	10° 5	9°25	9°15	7°30	28°16	T 26
F 27	0 23 4	3°51'05	0ഇ50	20° 6	9°46	23°34	13°27	15°33	16°20	0° 7	10° 4	9°24	9°12	7°37	28°13	F 27
S 28	0 27 1	4°50'03	13°14	21°37	10°58	24°12	13°39	15°40	16°20	0° 5	10° 4	9°24	9° 8	7°43	28°11	S 28
S 29	0 30 57	5°49'02	26° 0	23° 8	12°10	24°51	13°52	15°48	16°20	0° 4	10° 3	9°23	9° 5	7°50	28° 9	S 29
M30	0 34 54	6 ₽ 48'04	9 Ω 12	24 ≗ 37	13 M 22	25 m 29	14MD 4	15 m 55	16 Ⅱ 19	0 Υ 2	108 2	9 ට 21	9 궁 2	7 8 57	28≈ 7	M30

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S 1 M 2 T 3 W 4	8n23 8 2 7 40 7 18	18 17 1 40 13 45 2 46 8 22 3 43	9 14 1 43	3 13 0 39 3 44 0 36 4 15 0 34	10n 0 1n 6 9 45 1 6 9 31 1 6 9 16 1 6	9 25 0 57 9 21 0 57 9 16 0 57	8n33 1n44 8 30 1 44 8 27 1 44 8 24 1 44	22 44 0 0 22 44 0 0 22 45 0 0	0 58 1 24 0 59 1 24 1 0 1 24	0 32 16 15 0 32 16 15 0 32 16 15	22 55 23 22 56 23	2 17 33 3 17 35 3 17 37	5 45 6 22 5 46 6 22
T 5 F 6 S 7 S 8	6 55 6 33 6 11 5 48	2 25 4 27 3 s 4 5 5 9 4 6 5 3 15 13 4 5 1	8 28 1 41 7 41 1 38 6 54 1 35 6 7 1 31		9 2 1 5 8 47 1 5 8 32 1 5 8 18 1 5	9 1 0 57	8 21 1 44 8 18 1 44 8 16 1 44 8 13 1 44	22 45 0 0 22 45 0 0	1 1 1 24		22 57 23 22 58 23	3 17 39 3 17 41 4 17 43 4 17 45	5 48 6 22 5 49 6 22 5 50 6 22 5 51 6 22
M 9 T 10 W11 T 12 F 13 S 14	5 25 5 3 4 40 4 17 3 54	19 42 4 20 22 55 3 32	5 20 1 27 4 33 1 22 3 45 1 17 2 58 1 12	6 48 0 20 7 18 0 17 7 48 0 14 8 18 0 11	8 3 1 5 7 48 1 5 7 33 1 4 7 18 1 4 7 3 1 4 6 48 1 4	8 52 0 57	8 10 1 44 8 7 1 44 8 4 1 44 8 1 1 44 7 59 1 44	22 45 0 0 22 45 0 0 22 45 0 0 22 45 0 0	1 3 1 25 1 4 1 25 1 4 1 25 1 5 1 25 1 6 1 25		22 59 23 23 0 23 23 0 23 23 0 23 23 0 23	4 17 47 4 17 49 5 17 50 5 17 52 5 17 54 5 17 56	5 52 6 21 5 53 6 21 5 54 6 21 5 55 6 21 5 57 6 21
S 15 M16 T 17 W18 T 19 F 20 S 21	3 8 2 45 2 22 1 58 1 35 1 12 0 49	12 42 3 1 7 49 3 49 2 41 4 26 2n28 4 50 7 28 5 0	3 13 0 23	10 16 0s 2 10 45 0 5 11 14 0 8 11 43 0 11 12 11 0 14	6 33 1 4 6 18 1 3 6 3 1 3 5 48 1 3 5 33 1 3 5 17 1 3 5 2 1 3	8 13 0 58 8 8 0 58 8 3 0 58 7 58 0 58	7 53 1 45 7 50 1 45 7 47 1 45 7 44 1 45 7 42 1 45 7 39 1 45 7 36 1 45	22 45 0 0 22 46 0 0	1 8 1 25 1 8 1 25 1 9 1 25 1 10 1 25 1 10 1 25	0 37 16 18 0 37 16 18 0 38 16 19 0 38 16 19 0 39 16 19 0 39 16 19 0 40 16 20	23 0 23 23 1 23 23 2 23 23 3 23 23 4 23	6 17 58 6 18 0 6 18 2 6 18 4 7 18 6 7 18 7 7 18 9	6 0 6 20 6 1 6 20 6 2 6 20 6 3 6 19 6 4 6 19
S 22 M23 T 24 W25 T 26 F 27 S 28 S 29 M30	0 2 0s22 0 45 1 9 1 32	22 26 3 32 24 8 2 43 24 45 1 47 24 13 0 45 22 28 0s20	5 27 0 1 6 10 0s 6 6 53 0 13 7 35 0 20 8 17 0 28	13 34 0 24 14 1 0 27 14 28 0 31 14 55 0 34 15 21 0 37 15 47 0 41	4 47 1 2 4 31 1 2 4 16 1 2 4 1 1 2 3 45 1 1 3 30 1 1 3 14 1 1 2 59 1 1	7 44 0 58 7 39 0 58	7 33 1 45 7 31 1 45 7 28 1 45 7 25 1 46 7 22 1 46 7 19 1 46 7 14 1 46	22 46 0 0 22 46 0 0 22 46 0 0 22 46 0 0 22 46 0 0	1 12 1 25 1 13 1 25 1 14 1 25 1 14 1 25 1 15 1 25 1 16 1 25	0 40 16 20 0 40 16 20 0 41 16 20 0 41 16 20 0 42 16 21 0 42 16 21 0 43 16 21 0 43 16 21	23 6 23 23 7 23 23 7 23 23 7 23 23 7 23 23 7 23	7 18 11 7 18 13 8 18 15 8 18 17 8 18 18 18 20 9 18 22 9 18 24	6 6 6 19 6 8 6 18 6 9 6 18 6 10 6 18 6 11 6 17 6 12 6 17 6 13 6 17 6 14 6 17

Julian Day Number = 2401019.5, Delta T = 8.96 sec Ecliptic obliquity = 23°27'28, Nutation = 0°00'18, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}48'31$, Lahiri = $21^{\circ}55'31$

OCTOBER 1861 00:00 UT

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Day	Sid.t	0	D	ğ	P	ð	4	ħ)∤(卉	В	ស	ລ	Ç	ę,	Day
T 1	0 38 50	7 ≏ 47'08	22 N 52	26 ♀ 6	14 M .34	26M) 8	14 Mp 17	16Mp 2	16°R19	0°R 0	10°R 1	9°R16	8 궁 59	8 8 4	28°R 5	T 1
W 2	0 42 47	8°46'15	7 m 3	27°34	15°46	26°46	14°29	16° 9	16 II 18	29 米 59	108 0	9 ろ 9	8°56	8°10	28 ≈ 3	W 2
T 3	0 46 43	9°45'23	21°40	29° 1	16°58	27°25	14°42	16°16	16°18	29°57	9°59	8°59	8°52	8°17	28° 1	T 3
F 4	0 50 40	10°44'34	6 ₽ 39	0 M 27	18° 9	28° 4	14°54	16°24	16°17	29°55	9°58	8°48	8°49	8°24	27°59	F 4
S 5	0 54 36	11°43'46	21°49	1°53	19°21	28°42	15° 6	16°31	16°16	29°54	9°57	8°36	8°46	8°30	27°57	S 5
S 6	0 58 33	12°43'01	7 ™ 0	3°17	20°33	29°21	15°19	16°38	16°16	29°52	9°56	8°26	8°43	8°37	27°55	S 6
M 7	1 2 29	13°42'18	22° 2	4°40	21°44	29°59	15°31	16°45	16°15	29°51	9°55	8°18	8°40	8°44	27°53	M 7
T 8	1 6 26	14°41'37	6 ₹ 146	6° 3	22°56	0 ჲ 38	15°43	16°52	16°14	29°49	9°54	8°13	8°37	8°51	27°51	T 8
W 9	1 10 23	15°40'57	2 <u>1</u> ° 8	7°24	24° 7	1°17	15°55	16°59	16°13	29°47	9°53	8°10	8°33	8°57	27°50	W 9
T 10	1 14 19	16°40'20	5중 4	8°44	25°19	1°56	16° 7	17° 6	16°12	29°46	9°52	8°D 9	8°30	9° 4	27°48	T 10
F 11	1 18 16	17°39'43	18°37	10° 3	26°30	2°34	16°19	17°12	16°11	29°44	9°51	8°R 9	8°27	9°11	27°46	F 11
S 12	1 22 12	18°39'09	1≈48	11°21	27°42	3°13	16°31	17°19	16°10	29°43	9°50	8° 9	8°24	9°17	27°45	S 12
S 13	1 26 9	19°38'37	14°40	12°37	28°53	3°52	16°43	17°26	16° 9	29°41	9°49	8° 7	8°21	9°24	27°43	S 13
M14	1 30 5	20°38'06	27°17	13°52	0 才 4	4°30	16°55	17°33	16° 8	29°40	9°48	8° 2	8°17	9°31	27°42	M14
T 15	1 34 2	21°37'37	9 ∺ 42	15° 6	1°16	5° 9	17° 7	17°40	16° 7	29°38	9°47	7°54	8°14	9°37	27°40	T 15
W16	1 37 58	22°37'09	21°57	16°17	2°27	5°48	17°18	17°46	16° 6	29°37	9°46	7°44	8°11	9°44	27°39	W16
T 17	1 41 55	23°36'44	4Υ 5	17°28	3°38	6°27	17°30	17°53	16° 5	29°35	9°45	7°31	8° 8	9°51	27°38	T 17
F 18	1 45 52	24°36'20	16° 6	18°36	4°49	7° 6	17°42	17°59	16° 3	29°34	9°44	7°18	8° 5	9°58	27°36	F 18
S 19	1 49 48	25°35'59	28° 2	19°42	6° 0	7°44	17°53	18° 6	16° 2	29°32	9°43	7° 4	8° 2	10° 4	27°35	S 19
S 20	1 53 45	26°35'39	9 8 55	20°46	7°11	8°23	18° 5	18°12	16° 1	29°31	9°41	6°52	7°58	10°11	27°34	S 20
M21	1 57 41	27°35'22	21°45	21°47	8°22	9° 2	18°16	18°19	15°59	29°29	9°40	6°42	7°55	10°18	27°33	M21
T 22	2 1 38	28°35'07	3 II 35	22°46	9°33	9°41	18°28	18°25	15°58	29°28	9°39	6°34	7°52	10°24	27°32	T 22
W23	2 5 34	29°34'54	15°27	23°41	10°43	10°20	18°39	18°32	15°56	29°26	9°38	6°29	7°49	10°31	27°31	W23
T 24	2 9 31	0 M .34'43	27°25	24°34	11°54	10°59	18°50	18°38	15°55	29°25	9°37	6°27	7°46	10°38	27°30	T 24
F 25	2 13 27	1°34'34	9933	25°22	13° 5	11°38	19° 1	18°44	15°53	29°24	9°36	6°D27	7°43	10°44	27°29	F 25
S 26	2 17 24	2°34'28	21°55	26° 6	14°15	12°17	19°12	18°50	15°52	29°22	9°35	6°27	7°39	10°51	27°29	S 26
S 27	2 21 21	3°34'23	4 Ω 36	26°46	15°26	12°56	19°23	18°56	15°50	29°21	9°34	6°R28	7°36	10°58	27°28	S 27
M28	2 25 17	4°34'21	17°42	27°20	16°36	13°35	19°34	19° 2	15°48	29°20	9°33	6°27	7°33	11° 5	27°27	M28
T 29	2 29 14	5°34'21	1 m 15	27°49	17°46	14°14	19°45	19° 8	15°47	29°19	9°31	6°24	7°30	11°11	27°27	T 29
W30	2 33 10	6°34'23	15°18	28°11	18°57	14°53	19°56	19°14	15°45	29°17	9°30	6°19	7°27	11°18	27°26	W30
T 31	2 37 7	7 M .34'28	29 Mp 50	28 M 27	20 × 7	15 ≏ 32	20 Mp 7	19 10 20	15 Ⅱ 43	29 米 16	9829	6 ਰ 11	7 云 23	11825	27≈26	T 31

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
T 1 W 2 T 3 F 4 S 5	3 s 5 3 29 3 52 4 15 4 39	4 59 4 15 1s 5 4 47 7 14 5 0	11 37 1 · · · 12 15 1 1	1 17 50 0 57 8 18 13 1 1	2n28 1n 0 2 12 1 0 1 57 1 0 1 41 1 0 1 25 0 59	7n 6 0n59 7 1 0 59 6 57 0 59 6 52 0 59 6 47 0 59	7n 9 1n46 7 6 1 46 7 3 1 46 7 1 1 47 6 58 1 47	22 45 0 0 22 45 0 0	1 19 1 25 1 20 1 25	0 44 16 22 0 45 16 22 0 45 16 22	23 s 8 23 s 9 23 9 23 9 23 9 23 10 23 10 23 10 23 11 23 10	18 29 18 31 18 33	6s16 6n16 6 17 6 16 6 18 6 15 6 19 6 15 6 20 6 15
S 6 M 7 T 8 W 9 T 10 F 11	6 33	21 48 3 38 24 3 2 38 24 38 1 29 23 38 0 16		9 19 21 1 11 6 19 43 1 14 2 20 4 1 17	1 10 0 59 0 54 0 59 0 39 0 59 0 23 0 58 0 7 0 58 0 8 0 58	6 43 1 0 6 38 1 0 6 33 1 0 6 29 1 0 6 24 1 0 6 20 1 0	6 53 1 47 6 50 1 47 6 48 1 47 6 45 1 47	22 45 0 0 22 45 0 0	1 21 1 25 1 22 1 25 1 23 1 25 1 23 1 25	0 46 16 22 0 47 16 22 0 47 16 23 0 48 16 23	23 11 23 10 23 12 23 10 23 12 23 11 23 12 23 11 23 12 23 11 23 12 23 11 23 12 23 11	18 38 18 40 18 42 18 44	6 22 6 14
S 12 S 13 M14 T 15 W16 T 17 F 18	7 19 7 41 8 4 8 26 8 48 9 10 9 32	17 48 2 2 2 13 34 3 0 8 50 3 49 3 50 4 26 1n14 4 50 6 13 5 0 10 54 4 57	17 19 2 1 17 48 2 1 18 17 2 2 18 44 2 2 19 10 2 3 19 34 2 3 19 58 2 4	1 21 4 1 27 7 21 23 1 30 2 21 42 1 33 8 22 0 1 36 3 22 17 1 39 8 22 34 1 42 2 22 50 1 45	0 24 0 58 0 39 0 57 0 55 0 57 1 11 0 57 1 26 0 57 1 42 0 56 1 58 0 56	6 15 1 0 6 10 1 0 6 6 1 1 6 2 1 1 5 57 1 1 5 53 1 1 5 48 1 1	6 40 1 48 6 37 1 48 6 35 1 48 6 32 1 48 6 30 1 48 6 27 1 48 6 25 1 49	22 45 0 0 22 45 0 0 22 44 0 0	1 25 1 25 1 25 1 25 1 26 1 25 1 26 1 25 1 27 1 25 1 28 1 25 1 28 1 25	0 48 16 23 0 49 16 23 0 49 16 23 0 50 16 23 0 50 16 23 0 50 16 23 0 51 16 23	23 12 23 11 23 13 23 12 23 13 23 12 23 13 23 12 23 14 23 12 23 15 23 12 23 15 23 13	18 47 18 49 18 51 18 52 18 54 18 56 18 57	6 26 6 12 6 27 6 12 6 28 6 11 6 29 6 11 6 30 6 10 6 31 6 10
S 19 S 20 M21 T 22 W23 T 24 F 25 S 26	10 37 10 59 11 20 11 41 12 2	18 48 4 13 21 39 3 34 23 35 2 45 24 28 1 49 24 14 0 48 22 50 0s17	20 41 2 50 21 0 2 5 21 18 2 5 21 35 2 5 21 49 2 5 22 2 3	0 23 21 1 51 3 23 36 1 54 5 23 49 1 57 8 24 3 2 0 9 24 15 2 2	2 13 0 56 2 29 0 55 2 44 0 55 3 0 0 55 3 15 0 55 3 31 0 54 3 46 0 54 4 2 0 54	5 44 1 1 5 39 1 1 5 35 1 2 5 31 1 2 5 27 1 2 5 22 1 2 5 18 1 2 5 14 1 2	6 20 1 49 6 18 1 49 6 15 1 49 6 13 1 49 6 11 1 50 6 9 1 50	22 43 0 0 22 43 0 0 22 43 0 0	1 29 1 25 1 30 1 25 1 30 1 25 1 31 1 25 1 31 1 25 1 32 1 25	0 52 16 24 0 52 16 24 0 52 16 24 0 53 16 24 0 53 16 24 0 53 16 24	23 16 23 13 23 17 23 13 23 17 23 13 23 18 23 13 23 18 23 14 23 18 23 14 23 18 23 14 23 18 23 14	19 1 19 3 19 4 19 6 19 8 19 9	6 32 6 10 6 32 6 9 6 33 6 9 6 34 6 8 6 35 6 8 6 36 6 7 6 37 6 7
S 27 M28 T 29 W30 T 31	12 43 13 3 13 23 13 43 14s 3	12 20 3 22 7 9 4 10 1 25 4 45	22 28 2 5 22 32 2 5 22 33 2 5	8 24 59 2 12 5 25 8 2 15 2 25 16 2 17	4 17 0 53 4 33 0 53 4 48 0 53 5 4 0 52 5 s19 0n52	5 10 1 2 5 5 1 3 5 1 1 3 4 57 1 3 4n53 1n 3	6 2 1 50 6 0 1 50 5 58 1 51	22 43 0 0 22 42 0 0 22 42 0 0 22 42 0 0 22n42 0n 0	1 33 1 24 1 34 1 24 1 34 1 24	0 54 16 24 0 55 16 24 0 55 16 24	23 18 23 14 23 18 23 15 23 18 23 15 23 18 23 15 23 18 23 15 23 s19 23 s15	19 14 19 16 19 18	6 37 6 6 6 38 6 6 6 38 6 6 6 39 6 5 6 40 6n 5

Julian Day Number = 2401049.5, Delta T = 8.96 sec Ecliptic obliquity = $23^{\circ}27'28$, Nutation = $0^{\circ}00'17$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}48'35$, Lahiri = $21^{\circ}55'35$

NOVEMBER 1861 00:00 UT

Day	Sid.t	0	D	ğ	Q	♂	4	ħ)Å(并	Р	R	v	Ç	Š	Day
F 1	2 41 3	8MJ34'34	14 <u>₽</u> 46	28°R35	21 ৴ 17	16 ₽ 11	20 m 17	19 m 26	15°R41	29°R15	9°R28	6°R 3	7 云 20	11831	27°R25	F 1
S 2	2 45 0	9°34'42	29°59	28 M 35	22°27	16°50	20°28	19°32	15 Ⅱ 39	29 米 14	9 8 27	5 る 54	7°17	11°38	27≈25	S 2
S 3	2 48 56	10°34'53	15 M .19	28°26	23°37	17°29	20°38	19°37	15°37	29°12	9°26	5°45	7°14	11°45	27°25	S 3
M 4	2 52 53	11°35'05	0 х ⁷ 33	28° 7	24°47	18° 8	20°49	19°43	15°35	29°11	9°25	5°39	7°11	11°51	27°24	M 4
T 5	2 56 50	12°35'19	15°32	27°39	25°57	18°47	20°59	19°49	15°33	29°10	9°24	5°35	7° 8	11°58	27°24	T 5
W 6	3 0 46	13°35'34	8 る0	27° 1	27° 6	19°26	21° 9	19°54	15°31	29° 9	9°22	5°D33	7° 4	12° 5	27°24	W 6
T 7	3 4 43	14°35'51	14°18	26°14	28°16	20° 5	21°19	20° 0	15°29	29° 8	9°21	5°33	7° 1	12°12	27°D24	T 7
F 8	3 8 3 9	15°36'10	27°59	25°17	29°25	20°45	21°29	20° 5	15°27	29° 7	9°20	5°34	6°58	12°18	27°24	F 8
S 9	3 12 36	16°36'30	11≈15	24°12	0 궁 35	21°24	21°39	20°10	15°25	29° 6	9°19	5°R35	6°55	12°25	27°24	S 9
S 10	3 16 32	17°36'51	24° 8	23° 0	1°44	22° 3	21°49	20°15	15°23	29° 5	9°18	5°35	6°52	12°32	27°24	S 10
M11	3 20 29	18°37'13	6) (41	21°42	2°53	22°42	21°58	20°20	15°21	29° 4	9°17	5°33	6°49	12°38	27°24	M11
T 12	3 24 25	19°37'37	19° 0	20°22	4° 2	23°21	22° 8	20°26	15°19	29° 3	9°16	5°30	6°45	12°45	27°25	T 12
W13	3 28 22	20°38'02	1 ℃ 7	19° 2	5°11	24° 1	22°17	20°31	15°16	29° 2	9°15	5°24	6°42	12°52	27°25	W13
T 14	3 32 19	21°38'29	13° 7	17°44	6°20	24°40	22°27	20°35	15°14	29° 1	9°14	5°16	6°39	12°58	27°25	T 14
F 15	3 36 15	22°38'57	25° 1	16°31	7°28	25°19	22°36	20°40	15°12	29° 1	9°12	5° 8	6°36	13° 5	27°26	F 15
S 16	3 40 12	23°39'27	6 8 53	15°25	8°37	25°59	22°45	20°45	15° 9	29° 0	9°11	4°59	6°33	13°12	27°26	S 16
S 17	3 44 8	24°39'58	18°44	14°28	9°45	26°38	22°54	20°50	15° 7	28°59	9°10	4°52	6°29	13°18	27°27	S 17
M18	3 48 5	25°40'31	0Д36	13°42	10°53	27°17	23° 3	20°54	15° 5	28°58	9° 9	4°45	6°26	13°25	27°28	M18
T 19	3 52 1	26°41'05	12°30	13° 7	12° 2	27°57	23°12	20°59	15° 2	28°58	9° 8	4°41	6°23	13°32	27°28	T 19
W20	3 55 58	27°41'41	24°29	12°43	13° 9	28°36	23°20	21° 3	15° 0	28°57	9° 7	4°39	6°20	13°39	27°29	W20
T 21	3 59 54	28°42'18	6934	12°32	14°17	29°15	23°29	21° 7	14°58	28°56	9° 6	4°D38	6°17	13°45	27°30	T 21
F 22	4 3 51	29°42'57	18°49	12°D31	15°25	29°55	23°37	21°12	14°55	28°56	9° 5	4°39	6°14	13°52	27°31	F 22
S 23	4 7 48	0 ∡ ¹43'38	1 Q 16	12°41	16°32	0 M .34	23°46	21°16	14°53	28°55	9° 4	4°41	6°10	13°59	27°32	S 23
S 24	4 11 44	1°44'20	14° 0	13° 1	17°40	1°14	23°54	21°20	14°50	28°54	9° 3	4°42	6° 7	14° 5	27°33	S 24
M25	4 15 41	2°45'04	27° 3	13°30	18°47	1°53	24° 2	21°24	14°48	28°54	9° 2	4°R43	6° 4	14°12	27°34	M25
T 26	4 19 37	3°45'49	10 m 29	14° 7	19°53	2°33	24°10	21°28	14°45	28°53	9° 1	4°43	6° 1	14°19	27°35	T 26
W27	4 23 34	4°46'36	24°20	14°52	21° 0	3°12	24°18	21°32	14°43	28°53	9° 0	4°42	5°58	14°25	27°36	W27
T 28	4 27 30	5°47'24	8 亞 36	15°42	22° 7	3°52	24°26	21°35	14°40	28°53	8°59	4°39	5°55	14°32	27°37	T 28
F 29	4 31 27	6°48'14	23°15	16°38	23°13	4°31	24°33	21°39	14°38	28°52	8°58	4°35	5°51	14°39	27°39	F 29
S 30	4 35 23	7 .₹ 149'05	8 M .13	17 M 39	24 궁 19	5 M 11	24 Mp 41	21 Mp 42	14∏35	28 米 52	8 8 57	4 궁 31	5 ⋜ 48	14846	27≈40	S 30

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F 1 S 2	14 s22 14 42		s 1 22 s28		25 s31 2 s2 25 38 2 2		0n52 0 51	4n49 4 45	1n 3 1 3	5n53 5 51		22n42 22 42		1 s35 1 36	1 s24 1 24	0s56 16 0 56 16				6 s 4 0 6 4 1	6n 4
S 3 M 4 T 5 W 6	15 19 15 38 15 56	23 9 2 24 25 1 23 57 0	56 22 10 56 21 55 45 21 37 29 21 15	2 13 2 1 1 47	25 49 2 2 25 53 2 2 25 57 2 3	6 20 6 35 6 50	0 51 0 51 0 50 0 50	4 41 4 37 4 33 4 30	1 4 1 4 1 4 1 4	5 49 5 47 5 45 5 43	1 52 1 52 1 52	22 41 22 41 22 41	0 1 0 1 0 1	1 36 1 37 1 37 1 37	1 24 1 24 1 24 1 24	0 56 16 0 57 16 0 57 16 0 57 16	24 23 24 23 24 23	20 23 1 20 23 1 20 23 1	6 19 26 6 19 27 6 19 29	6 42 6 42	6 4 6 3 6 3 6 2
F 8 S 9	-	18 39 1 14 31 3		1 15	26 0 2 3 26 2 2 3 26 3 2 3	7 20 7 35	0 50 0 49 0 49	4 26 4 22 4 18	1 4 1 5 1 5	5 41 5 39 5 37		22 40 22 40	0 1	1 38 1 38 1 39	1 24 1 24 1 24	0 58 16 0 58 16 0 58 16	24 23 23 23	20 23 1 20 23 1	6 19 32 7 19 34	6 43 6 43 6 44	6 2 6 1 6 1
S 10 M11 T 12 W13 T 14 F 15 S 16		4 53 4 0n11 4 5 9 5 9 52 5 14 11 4		0 16 0n 5 0 25 0 45 1 4	26 2 2 4 26 0 2 4 25 57 2 4	8 5 8 20 1 8 35 2 8 50 3 9 4		4 15 4 11 4 7 4 4 4 0 3 57 3 53	1 5 1 5 1 5 1 6 1 6 1 6	5 36 5 34 5 32 5 30 5 28 5 27 5 25	1 53 1 53 1 54 1 54 1 54	22 39 22 39 22 39	0 1 0 1 0 1 0 1 0 1	1 39 1 39 1 40 1 40 1 40 1 41 1 41	1 24 1 24 1 24 1 24 1 24 1 24 1 24	1 0 16	23 23 23 23 23 23 23 23 23 23	20 23 1 21 23 1 21 23 1 21 23 1 21 23 1	7 19 37 7 19 39		6 1 6 0 6 0 5 59 5 59 5 58 5 58
S 17 M18 T 19 W20 T 21 F 22 S 23	19 12 19 26 19 40 19 53 20 6	23 8 2 24 15 1 24 16 0 23 7 0 20 52 1	43 14 39 54 14 12 58 13 51 55 13 35 811 13 24 17 13 19 21 13 18	1 50 2 2 2 12 2 19 2 25	25 45 2 4 25 39 2 4 25 33 2 4 25 26 2 4 25 19 2 4	5 9 48 5 10 3 5 10 17 6 10 31 6 10 46	0 46 0 46 0 45 0 45 0 45 0 44 0 44	3 50 3 47 3 43 3 40 3 37 3 34 3 31	1 6 1 6 1 7 1 7 1 7 1 7 1 8	5 23 5 22 5 20 5 19 5 17 5 16 5 14	1 55 1 55 1 55 1 55 1 56	22 38	0 1 0 1 0 1 0 1 0 1	1 41 1 41 1 42 1 42 1 42 1 42 1 43	1 24 1 24 1 24 1 24 1 24 1 24 1 24	1 0 16 1 0 16 1 1 16 1 1 16 1 1 16	23 23 23 23 22 23 22 23 22 23	22 23 1 22 23 1 23 23 1 23 23 1 23 23 1	8 19 46 8 19 48 8 19 49 8 19 51 9 19 53 9 19 54 9 19 56	6 46 6 46 6 46 6 46	5 58 5 57 5 57 5 56 5 56 5 56 5 55
	20 32 20 44 20 55 21 6 21 17 21 28 21 s38	8 37 4 3 14 4 2 s 28 5 8 12 5 13 38 4	46 13 41	2 32 2 31 2 30 2 27 2 24	24 52 2 4 24 42 2 4 24 31 2 4 24 20 2 4 24 8 2 4	11 56	0 43 0 43 0 42 0 42 0 41	3 28 3 25 3 22 3 19 3 16 3 13 3n10	1 8 1 8 1 8 1 8 1 9 1 9 1n 9	5 13 5 12 5 10 5 9 5 8 5 7 5n 6	1 56 1 57 1 57 1 57 1 57	22 36 22 36	0 1 0 1 0 1 0 1 0 1	1 43 1 43 1 43 1 43 1 43 1 44 1 s44	1 24 1 24 1 24 1 24 1 23 1 23 1 s23	1 2 16 1 2 16 1 2 16 1 2 16	22 23 22 23 21 23 21 23 21 23	22 23 1 22 23 1 22 23 1 23 23 2 23 23 2	9 20 2 0 20 3 0 20 5	6 47 6 47 6 47 6 47 6 46	5 55 5 54 5 54 5 54 5 53 5 53 5 n52

Julian Day Number = 2401080.5, Delta T = 8.96 sec Ecliptic obliquity = $23^{\circ}27'28$, Nutation = $0^{\circ}00'15$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}48'39$, Lahiri = $21^{\circ}55'40$

DECEMBER 1861 00:00 UT

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S 1	4 39 20	8 × 149'58	23 M 21	18 M .45	25 ~ 25	5 M .51	24 m 48	21 m/46	14°R33	28°R51	8°R56	4°R28	5 ~ 45	14852	27≈41	S 1
M 2	4 43 17	9°50'52	8 × 30	19°54	26°31	6°30	24°55	21°49	14∏30	28) 51	8 8 55	4 3 25	5°42	14°59	27°43	M 2
T 3	4 47 13	10°51'47	23°30	21° 6	27°36	7°10	25° 2	21°52	14°28	28°51	8°54	4°23	5°39	15° 6	27°44	T 3
W 4	4 51 10	11°52'43	8 궁 13	22°21	28°41	7°49	25° 9	21°56	14°25	28°51	8°53	4°D23	5°35	15°12	27°46	W 4
T 5	4 55 6	12°53'40	22°32	23°38	29°46	8°29	25°15	21°59	14°23	28°50	8°52	4°24	5°32	15°19	27°48	T 5
F 6	4 59 3	13°54'37	6≈24	24°57	0≈51	9° 9	25°22	22° 2	14°20	28°50	8°51	4°25	5°29	15°26	27°49	F 6
S 7	5 2 59	14°55'36	19°50	26°18	1°56	9°49	25°28	22° 4	14°18	28°50	8°50	4°27	5°26	15°32	27°51	S 7
S 8	5 6 56	15°56'35	2){ 49	27°40	3° 0	10°28	25°35	22° 7	14°15	28°50	8°50	4°28	5°23	15°39	27°53	S 8
M 9	5 10 53	16°57'34	15°27	29° 4	4° 4	11° 8	25°41	22°10	14°12	28°50	8°49	4°R28	5°20	15°46	27°55	M 9
T 10	5 14 49	17°58'34	27°47	0 ∡ 129	5° 7	11°48	25°47	22°12	14°10	28°D50	8°48	4°28	5°16	15°52	27°57	T 10
W11	5 18 46	18°59'35	9 Y 53	1°55	6°10	12°28	25°53	22°15	14° 7	28°50	8°47	4°27	5°13	15°59	27°59	W11
T 12	5 22 42	20° 0'36	21°49	3°22	7°13	13° 7	25°58	22°17	14° 5	28°50	8°46	4°25	5°10	16° 6	28° 1	T 12
F 13	5 26 39	21° 1'38	3 8 41	4°49	8°16	13°47	26° 4	22°19	14° 2	28°50	8°45	4°23	5° 7	16°13	28° 3	F 13
S 14	5 30 35	22° 2'40	15°31	6°17	9°18	14°27	26° 9	22°21	14° 0	28°50	8°45	4°21	5° 4	16°19	28° 5	S 14
S 15	5 34 32	23° 3'43	27°22	7°46	10°20	15° 7	26°14	22°23	13°57	28°50	8°44	4°19	5° 1	16°26	28° 7	S 15
M16	5 38 28	24° 4'46	9 Ⅱ 18	9°15	11°21	15°47	26°19	22°25	13°55	28°51	8°43	4°18	4°57	16°33	28°10	M16
T 17	5 42 25	25° 5'50	21°20	10°44	12°22	16°27	26°24	22°27	13°52	28°51	8°42	4°17	4°54	16°39	28°12	T 17
W18	5 46 22	26° 6'55	3930	12°14	13°23	17° 7	26°29	22°29	13°50	28°51	8°42	4°D17	4°51	16°46	28°14	W18
T 19	5 50 18	27° 8'00	15°50	13°45	14°23	17°47	26°33	22°30	13°47	28°51	8°41	4°17	4°48	16°53	28°17	T 19
F 20	5 54 15	28° 9'05	28°20	15°15	15°23	18°27	26°38	22°32	13°45	28°52	8°40	4°18	4°45	16°59	28°19	F 20
S 21	5 58 11	29°10'12	11 0 2	16°46	16°22	19° 7	26°42	22°33	13°42	28°52	8°40	4°18	4°41	17° 6	28°22	S 21
S 22	6 2 8	0 ට 11'18	23°59	18°18	17°21	19°47	26°46	22°35	13°40	28°52	8°39	4°19	4°38	17°13	28°24	S 22
M23	6 6 4	1°12'26	7 m 10	19°49	18°20	20°27	26°50	22°36	13°38	28°53	8°38	4°19	4°35	17°19	28°27	M23
T 24	6 10 1	2°13'34	20°38	21°21	19°18	21° 7	26°53	22°37	13°35	28°53	8°38	4°19	4°32	17°26	28°29	T 24
W25	6 13 57	3°14'42	4 ₾ 23	22°53	20°15	21°47	26°57	22°38	13°33	28°54	8°37	4°R19	4°29	17°33	28°32	W25
T 26	6 17 54	4°15'51	18°26	24°25	21°12	22°27	27° 0	22°39	13°31	28°54	8°36	4°D19	4°26	17°39	28°35	T 26
F 27	6 21 51	5°17'01	2 M .46	25°58	22° 8	23° 7	27° 3	22°39	13°28	28°55	8°36	4°19	4°22	17°46	28°38	F 27
S 28	6 25 47	6°18'11	17°19	27°31	23° 4	23°47	27° 6	22°40	13°26	28°55	8°35	4°19	4°19	17°53	28°40	S 28
S 29	6 29 44	7°19'22	2 × 7 1	29° 4	23°59	24°27	27° 9	22°40	13°24	28°56	8°35	4°20	4°16	18° 0	28°43	S 29
M30	6 33 40	8°20'33	16°47	0 云 38	24°53	25° 7	27°11	22°41	13°21	28°57	8°34	4°20	4°13	18° 6	28°46	M30
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F 13 S 14 S 15 M16	23 9 23 13	17 4 4 36 20 18 3 58 22 41 3 11	20 15 0 20 37 0 21 0 0 1	53 20 22 2 14 1 46 20 3 2 11 1 38 19 43 2 8 1	5 26 0 35 5 38 0 34 5 51 0 34	2 40 1 12 2 38 1 13 2 37 1 13	4 54 2 1 4 54 2 1 4 53 2 2 4 52 2 2	22 31 0 1 22 31 0 1 22 30 0 1	1 44 1 23 1 44 1 23 1 44 1 23 1 44 1 23	1 3 16 18 1 3 16 18 1 3 16 18	23 23 23 23 23 23 23 23 23 23 23 23 23 23 23	22 20 25 22 20 26 22 20 28	6 43 5 47 6 43 5 47 6 43 5 47 6 42 5 46
T 17 W18 T 19 F 20 S 21	23 22 23 24 23 26 23 27 23 27	24 22 1 11 23 29 0 4 21 28 1s 4 18 24 2 10 14 25 3 10	21 41 0 2 22 1 0 22 20 0 22 37 0 22 54 0s	23 19 2 2 0 1 16 18 41 1 57 1 8 18 19 1 52 1 1 17 57 1 48 1 5 6 17 35 1 44 1	6 15 0 33 6 26 0 32 6 38 0 32 6 50 0 31 7 1 0 31	2 33 1 13 2 32 1 14 2 30 1 14 2 29 1 14 2 27 1 14	4 52 2 2 4 52 2 2 4 51 2 3 4 51 2 3 4 51 2 3	22 30 0 1 22 30 0 1 22 29 0 1 22 29 0 1 22 29 0 1	1 43 1 23 1 43 1 23 1 43 1 23 1 43 1 23 1 43 1 23	1 3 16 17 1 3 16 17 1 3 16 16 1 3 16 16 1 3 16 16	23 23 23 23 23 23 23 23 23 23 23 23 23 23 23	22 20 30 22 20 32 22 20 33 22 20 35 22 20 36	6 42 5 46 6 41 5 45 6 41 5 45 6 40 5 45 6 40 5 44
S 22 M23 T 24 W25 T 26 F 27 S 28	23 21	4 30 4 43 1s 1 5 9 6 36 5 18 11 59 5 8 16 49 4 39	23 24 0 1 23 37 0 1 23 49 0 1 24 0 0 4 24 10 0 4	20 16 50 1 34 1 27 16 27 1 29 1 33 16 4 1 24 1 40 15 41 1 18 1 46 15 17 1 13 1	7 12 0 30 7 24 0 30 7 35 0 29 7 46 0 29 7 57 0 28 8 7 0 28 8 18 0 27	2 25 1 15 2 23 1 15 2 22 1 15 2 21 1 16 2 20 1 16	4 50 2 5	22 27 0 1	1 43 1 23 1 42 1 22 1 42 1 22 1 42 1 22 1 42 1 22 1 41 1 22 1 41 1 22	1 2 16 15 1 2 16 15 1 2 16 15 1 2 16 14 1 2 16 14	23 23 23 23 23 23	23 20 39 23 20 40 23 20 41 23 20 43 23 20 44	6 39 5 44 6 39 5 44 6 38 5 43 6 37 5 43 6 37 5 43 6 36 5 42 6 35 5 42
	23 12	24 24 1 36	24 31 1	58 14 30 1 1 1 4 14 6 0 55 1 s10 13 s41 0 s48 1		2 18 1 17	4 50 2 6	22 27 0 1 22 26 0 1 22n26 0n 1	1 41 1 22 1 41 1 22 1 s40 1 s22	1 2 16 13	23 23 23 23 23 23 23 s23 23	23 20 48	6 35 5 42 6 34 5 41 6 s 33 5 n 41

Julian Day Number = 2401110.5, Delta T = 8.97 sec Ecliptic obliquity = 23°27'27, Nutation = 0°00'16, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}48'43$, Lahiri = $21^{\circ}55'44$