

# Astrodienst Ephemeris Tables for the year 1781

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 1781 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	¥	Р	ß	v	Ç	ķ	Day
M 1	6 43 58	11る 3'29	21 <b>)</b> 5	18 <b>×</b> 11	4 <b>₹</b> 13	10 <b>M</b> 57	20 <b>M</b> .26	14 <b>×</b> <sup>7</sup> 23	25°R49	5 <b>≙</b> 51	4≈ 3	11°R41	10841	22 <b>)</b> 32	1°R33	M 1
T 2	6 47 54	12° 4'40	2 <b>Υ</b> 54	19° 5	5°26	11°34	20°37	14°29	25 <b>Ⅱ</b> 47	5°52	4° 5	11839	10°38	22°38	1832	T 2
W 3	6 51 51	13° 5'50	14°45	20° 2	6°39	12°11	20°47	14°36	25°44	5°52	4° 7	11°D38	10°35	22°45	1°32	W 3
T 4	6 55 48	14° 6'59	26°43	21° 3	7°52	12°48	20°57	14°42	25°42	5°52	4° 8	11°39	10°32	22°52	1°31	T 4
F 5	6 59 44	15° 8'09	8 <b>8</b> 53	22° 7	9° 6	13°25	21° 8	14°49	25°40	5°52	4°10	11°R40	10°29	22°58	1°31	F 5
S 6	7 3 41	16° 9'17	21°21	23°13	10°19	14° 2	21°18	14°55	25°37	5°R52	4°12	11°39	10°26	23° 5	1°30	S 6
S 7	7 7 37	17°10'26	4 <b>Ⅱ</b> 11	24°22	11°32	14°38	21°28	15° 1	25°35	5°52	4°14	11°37	10°22	23°12	1°30	S 7
M 8	7 11 34	18°11'34	17°25	25°33	12°46	15°15	21°38	15° 8	25°33	5°52	4°16	11°32	10°19	23°18	1°30	M 8
T 9	7 15 30	19°12'41	195 4	26°46	13°59	15°52	21°47	15°14	25°30	5°52	4°17	11°24	10°16	23°25	1°30	T 9
W10	7 19 27	20°13'48	15° 8	28° 1	15°13	16°28	21°57	15°20	25°28	5°52	4°19	11°14	10°13	23°32	1°D30	W10
T 11	7 23 24	21°14'54	29°30	29°17	16°26	17° 5	22° 7	15°27	25°26	5°52	4°21	11° 3	10°10	23°39	1°30	T 11
F 12	7 27 20	22°16'00	140 5	0중35	17°40	17°42	22°16	15°33	25°24	5°51	4°23	10°52	10° 7	23°45	1°30	F 12
S 13	7 31 17	23°17'06	28°46	1°54	18°53	18°18	22°25	15°39	25°21	5°51	4°25	10°42	10° 3	23°52	1°30	S 13
S 14	7 35 13	24°18'11	13 <b>m</b> 24	3°14	20° 7	18°55	22°35	15°45	25°19	5°51	4°27	10°34	10° 0	23°59	1°30	S 14
M15	7 39 10	25°19'16	27°55	4°36	21°21	19°31	22°44	15°51	25°17	5°51	4°29	10°28	9°57	24° 5	1°30	M15
T 16	7 43 6	26°20'20	12 <b>Ω</b> 12	5°58	22°34	20° 8	22°53	15°57	25°15	5°50	4°30	10°26	9°54	24°12	1°31	T 16
W17	7 47 3	27°21'25	26°15	7°22	23°48	20°44	23° 2	16° 3	25°13	5°50	4°32	10°D25	9°51	24°19	1°31	W17
T 18	7 50 59	28°22'29	10 <b>M</b> 3	8°46	25° 2	21°21	23°11	16° 9	25°11	5°50	4°34	10°R25	9°47	24°25	1°32	T 18
F 19	7 54 56	29°23'32	23°37 6 <b>×</b> 759	10°11 11°37	26°16 27°29	21°57 22°34	23°19 23°28	16°15 16°20	25° 9 25° 7	5°49 5°49	4°36 4°38	10°25 10°22	9°44 9°41	24°32 24°39	1°32 1°33	F 19 S 20
S 20	7 58 53	0≈24'35										-				
S 21	8 2 49	1°25'38	20° 9	13° 4	28°43	23°10	23°36	16°26	25° 5	5°48	4°40	10°17	9°38	24°45	1°33	S 21
M22	8 6 46	2°26'40	3 <b>궁</b> 8	14°32	29°57	23°46	23°45	16°32	25° 3	5°48	4°42	10° 9	9°35	24°52	1°34	M22
T 23	8 10 42	3°27'41	15°56	16° 1	1중11	24°23	23°53	16°37	25° 1	5°47	4°44	9°58	9°32	24°59	1°35	T 23
W24	8 14 39	4°28'41	28°34	17°30	2°25	24°59	24° 1	16°43	24°59	5°47	4°45	9°44	9°28	25° 5	1°36	W24
T 25	8 18 35	5°29'41	11 ≈ 0	19° 0 20°30	3°39	25°35	24° 9	16°48	24°57	5°46	4°47	9°30	9°25 9°22	25°12	1°36	T 25
F 26 S 27	8 22 32 8 26 28	6°30'39 7°31'36	23°16 5 <b>¥</b> 21	20°30 22° 2	4°53 6° 7	26°11 26°47	24°17 24°24	16°54 16°59	24°56 24°54	5°45 5°45	4°49 4°51	9°15 9° 2	9°22 9°19	25°19 25°25	1°37 1°38	F 26 S 27
					,											
S 28	8 30 25	8°32'33	17°18	23°34	7°21	27°24	24°32	17° 4	24°52	5°44	4°53	8°51	9°16	25°32	1°39	S 28
M29	8 34 22	9°33'27	29° 9	25° 7	8°35	28° 0	24°39	17°10	24°51	5°43	4°55	8°43	9°13	25°39	1°40	M29
T 30	8 38 18	10°34'21	10 <b>Y</b> 56	26°40	9°49	28°36	24°46	17°15	24°49	5°43	4°57	8°38	9° 9	25°46	1°42	T 30
W31	8 42 15	11≈35'13	22 <b>Y</b> 45	28 <b>궁</b> 15	11중 3	29 <b>IL</b> 11	24M54	17 <b>×</b> <sup>7</sup> 20	24∏48	5 <b>≙</b> 42	4≈59	8 <b>8</b> 36	9 <b>8</b> 6	25 <b>米</b> 52	1 <b>8</b> 43	W31

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M 1 T 2	23 s 1 22 55		66 20 s 50 2 21 3		-	14s11 14 23		16s56 16 59	0n59 0 59	21 s 5 21 6	_	23n36 23 36		0s59 1n28			15n22 15 21			11n12 11 12	0 s53 0 53
W 3	22 49		9 21 17			14 34			0 59			23 36		0 59 1 28						11 11	0 53
T 4	22 43	9 5 1 1	9 21 30	1 41 19	55 1 45	14 46	0 59	17 4	0 59	21 8	1 29	23 36	0 12	0 59 1 28	3 24 13	5 8	15 21	15 0	6 20	11 11	0 53
F 5			5 21 43				0 58		0 59					0 59 1 28			15 21			11 11	0 53
S 6	22 29	18 57 On5	51 21 55	1 23 20	22 1 41	15 9	0 58	17 9	0 59	21 9	1 29	23 35	0 12	0 59 1 28	3 24 12	5 8	15 21	14 58	6 14	11 11	0 53
S 7	22 22		7 22 7			15 20		17 12		21 10		23 35					15 20			11 11	0 53
M 8			8 22 19		-	15 31		17 14				23 35		0 59 1 28				14 56		11 11	0 53
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W10 T 11	21 57 21 47		1 22 40 5 22 50			15 53 16 4		17 19		21 12		<ul><li>23 35</li><li>23 35</li></ul>		0 59 1 28		5 8		14 54 14 53	-	11 11	0 53 0 53
F 12	21 47		1 22 59		-	16 4 16 14		17 21 17 24	1 0		1 29			0 59 1 28						11 11 11 11	0 53
	21 27	-	7 23 6			16 25		17 26	1 0			23 35		0 58 1 29				14 51		11 11	0 53
S 14	21 17	10 26 4 1	4 23 13	0 13 21	46 1 21	16 35	0 55	17 28	1 0	21 14	1 29	23 35	0 12	0 58 1 29	24 9	5 8	15 1	14 50	5 48	11 11	0 53
M15	21 6	3 58 3 2					0 54		1 0					0 58 1 29		5 8	14 59	14 49	5 45	11 11	0 53
T 16	20 55	2 s 3 8 2 2	23 23	0s 3 22	0 1 15	16 56	0 54	17 33	1 0	21 15	1 29	23 35	0 12	0 58 1 29	24 8	5 8	14 58	14 48	5 41	11 11	0 53
W17	20 43	8 59 1 1	4 23 27	0 11 22	7 1 13	17 6	0 54	17 35	1 0	21 16	1 29	23 35	0 12	0 58 1 29	24 8	5 8	14 58	14 47	5 38	11 11	0 54
T 18	20 31		2 23 30		13 1 10				1 0	-				0 57 1 29		5 8		14 46		11 11	0 54
F 19			9 23 31			17 26		17 39		21 17	1 29			0 57 1 29			14 58			11 11	0 54
S 20	20 5	23 44 2 1	5 23 31	0 34 22	22 1 4	17 36	0 52	17 41	1 1	21 18	1 29	23 34	0 12	0 57 1 29	24 7	5 8	14 57	14 44	5 29	11 11	0 54
S 21			3 23 30			-,		17 43	1 1	21 18		23 34		0 57 1 29		5 8	14 55			11 11	0 54
M22	19 38		0 23 28			17 55			1 1	21 19			1	0 57 1 29		5 8		14 42		11 12	0 54
T 23	19 24		23 24			-	0 51	17 47	1 1	21 19	-	23 34		0 56 1 29		5 8	-	14 41		11 12	0 54
W24	19 10		23 19			18 14		17 49	1 1					0 56 1 29	_	5 9	_	14 40		11 12	0 54
T 25 F 26	18 55 18 40		59 23 13 51 23 6			18 23 18 32		17 51 17 52	1 1	21 20 21 21				0 56 1 29 0 55 1 29	_	5 9		14 39 14 38		11 12 11 13	0 54
S 27		-	29 22 57			18 41		17 54		21 21		23 34		0 55 1 29		5 9		14 36		11 13	0 54
S 28	18 9	8 38 3 5	6 22 47	1 23 22	35 0 41	18 49	0.48	17 56	1 2	21 22	1 29	23 34	0 12	0 55 1 29	24 4	5 9	14 28	14 36	5 3	11 13	0 54
M29	17 53		2 22 35			18 58			1 2			23 34				-		14 35		11 14	0 54
T 30	17 37		21 22 22					17 59	1 2			23 34		0 54 1 29		-		14 34		11 14	0 54
W31	17 s20		22 s 8			19s15		18s 1		21 s23		23n34			24s 2	5s 9	14n23				0 s54

Julian Day Number = 2371557.5, Delta T = 22.31 sec Ecliptic obliquity =  $23^{\circ}28'10$ , Nutation = -  $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $21^{\circ}40'58$ , Lahiri =  $20^{\circ}47'58$ Greg. Calendar

00:00 UT FEBRUARY 1781

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	并	Р	n	Ω	Ç	ę,	Day
T 1	8 46 11	12≈36'04	4840	29 <b>궁</b> 50	12 <b>る</b> 17	29 <b>M</b> 47	25 <b>M</b> 0	17 <b>×</b> 725	24°R46	5°R41	5 <b>≈</b> 0	8°R35	9 <b>8</b> 3	25 <b>米</b> 59	1844	T 1
F 2	8 50 8	13°36'54	16°47	1≈25	13°31	0 <b>∡</b> 123	25° 7	17°30	24∏45	5 <b>₽</b> 40	5° 2	8 <b>8</b> 35	9° 0	26° 6	1°45	F 2
S 3	8 54 4	14°37'42	29°11	3° 2	14°45	0°59	25°14	17°35	24°43	5°39	5° 4	8°35	8°57	26°12	1°47	S 3
S 4	8 58 1	15°38'28	11 <b>II</b> 58	4°39	15°59	1°35	25°20	17°40	24°42	5°38	5° 6	8°32	8°53	26°19	1°48	S 4
M 5	9 1 57	16°39'13	25°11	6°17	17°13	2°10	25°27	17°44	24°40	5°37	5° 8	8°28	8°50	26°26	1°50	M 5
T 6	9 5 54	17°39'57	8954	7°56	18°27	2°46	25°33	17°49	24°39	5°36	5°10	8°20	8°47	26°32	1°51	T 6
W 7	9 9 5 1	18°40'39	23° 5	9°35	19°41	3°22	25°39	17°54	24°38	5°35	5°12	8°10	8°44	26°39	1°53	W 7
T 8	9 13 47	19°41'19	7 <b>Ω</b> 42	11°16	20°56	3°57	25°45	17°58	24°37	5°34	5°13	7°59	8°41	26°46	1°55	T 8
F 9	9 17 44	20°41'58	22°37	12°57	22°10	4°33	25°51	18° 3	24°36	5°33	5°15	7°47	8°38	26°52	1°56	F 9
S 10	9 21 40	21°42'36	7 <b>m</b> 42	14°39	23°24	5° 8	25°56	18° 7	24°35	5°32	5°17	7°37	8°34	26°59	1°58	S 10
S 11	9 25 37	22°43'12	22°45	16°22	24°38	5°44	26° 2	18°11	24°34	5°31	5°19	7°28	8°31	27° 6	2° 0	S 11
M12	9 29 33	23°43'46	7 <b>₽</b> 39	18° 6	25°52	6°19	26° 7	18°15	24°33	5°30	5°21	7°23	8°28	27°12	2° 2	M12
T 13	9 33 30	24°44'20	22°16	19°51	27° 6	6°54	26°12	18°20	24°32	5°29	5°23	7°20	8°25	27°19	2° 4	T 13
W14	9 37 26	25°44'52	6MJ32	21°36	28°20	7°30	26°17	18°24	24°31	5°28	5°24	7°D19	8°22	27°26	2° 6	W14
T 15	9 41 23	26°45'23	20°26	23°23	29°35	8° 5	26°22	18°28	24°30	5°27	5°26	7°R19	8°18	27°32	2°8	T 15
F 16	9 45 20	27°45'53	3 <b>∡</b> 759	25°10	0≈49	8°40	26°27	18°32	24°29	5°25	5°28	7°19	8°15	27°39	2°10	F 16
S 17	9 49 16	28°46'21	17°12	26°59	2° 3	9°15	26°31	18°35	24°28	5°24	5°30	7°18	8°12	27°46	2°12	S 17
S 18	9 53 13	29°46'49	0중 9	28°48	3°17	9°50	26°36	18°39	24°28	5°23	5°31	7°14	8° 9	27°52	2°14	S 18
M19	9 57 9	0 <b>)(</b> 47'15	12°52	0 <b>)</b> €38	4°31	10°25	26°40	18°43	24°27	5°22	5°33	7° 7	8° 6	27°59	2°17	M19
T 20	10 1 6	1°47'39	25°23	2°29	5°46	11° 0	26°44	18°46	24°26	5°20	5°35	6°58	8° 3	28° 6	2°19	T 20
W21	10 5 2	2°48'02	7≈44	4°21	7° 0	11°35	26°47	18°50	24°26	5°19	5°37	6°47	7°59	28°12	2°21	W21
T 22	10 8 59	3°48'23	19°56	6°13	8°14	12° 9	26°51	18°53	24°25	5°18	5°38	6°34	7°56	28°19	2°24	T 22
F 23	10 12 55	4°48'43	2 <b>)</b> € 0	8° 7	9°28	12°44	26°54	18°57	24°25	5°16	5°40	6°22	7°53	28°26	2°26	F 23
S 24	10 16 52	5°49'00	13°57	10° 1	10°43	13°19	26°58	19° 0	24°25	5°15	5°42	6°11	7°50	28°32	2°29	S 24
S 25	10 20 49	6°49'16	25°49	11°55	11°57	13°53	27° 1	19° 3	24°24	5°14	5°43	6° 2	7°47	28°39	2°31	S 25
M26	10 24 45	7°49'30	7 <b>Y</b> 38	13°50	13°11	14°28	27° 4	19° 6	24°24	5°12	5°45	5°55	7°44	28°46	2°34	M26
T 27	10 28 42	8°49'42	19°25	15°45	14°25	15° 2	27° 6	19° 9	24°24	5°11	5°47	5°51	7°40	28°53	2°36	T 27
W28	10 32 38	9 <b>)</b> 49'52	1815	17 <b>) (</b> 41	15 <b>≈</b> 40	15 <b>∡</b> ³36	27 <b>™</b> 9	19 <b>×</b> 12	24∏24	5 <b>ჲ</b> 9	5≈48	5°D49	7 <b>8</b> 37	28 <b>米</b> 59	2 <b>8</b> 39	W28

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T 1		12n46		21 s52	1 s42	22 s25	0n29	19 s23	0n46	18s 2	1n 2	21 s23	1n30	23n34	0n12	0s53	1n30	24s 2	5s 9	_		4 s 5 0	11n15	0 s54
F 2	16 46	17 34	0n43	21 35	1 46	22 21	0 26	19 31	0 45	18 4	1 2	21 24	1 30	23 34	0 12	0 53	1 30	24 2	5 9	14 23	14 31	4 46	11 15	0 54
S 3	16 28	21 44	1 47	21 17	1 49	22 16	0 23	19 39	0 45	18 5	1 2	21 24	1 30	23 34	0 12	0 53	1 30	24 1	5 9	14 23	14 30	4 43	11 16	0 54
S 4	16 10	25 0	2 47	20 57	1 52	22 11	0 20	19 47	0 44	18 7	1 2	21 24	1 30	23 34	0 12	0 52	1 30	24 1	5 9	14 22	14 29	4 40	11 16	0 54
M 5	15 52	27 3	3 40	20 35	1 55	22 4	0 17	19 55	0 43	18 8	1 2	21 25	1 30	23 33	0 12	0 52	1 30	24 1	5 10	14 21	14 28	4 37	11 17	0 54
T 6	15 33	27 32	4 22	20 12	1 58	21 58	0 14	20 3	0 43	18 10	1 3	21 25	1 30	23 33	0 12	0 51	1 30	24 0	5 10	14 18	14 27	4 33	11 17	0 54
W 7	15 15	26 16	4 51	19 48	2 0	21 50	0 11	20 10	0 42	18 11	1 3	21 26	1 30	23 33	0 12	0 51	1 30	24 0	5 10	14 15	14 26	4 30	11 18	0 54
T 8	14 56	23 12	5 1	19 22	2 2	21 42	0 8	20 17	0 41	18 12	1 3	21 26	1 30	23 33	0 12	0 51	1 30	24 0	5 10	14 11	14 25	4 27	11 18	0 54
F 9	14 37	18 34	4 51	18 55	2 4	21 33	0 6	20 25	0 41	18 13	1 3	21 26	1 30	23 33	0 12	0 50	1 30	23 59	5 10	14 8	14 24	4 24	11 19	0 54
S 10	14 17	12 44	4 21	18 27	2 5	21 24	0 3	20 32	0 40	18 15	1 3	21 26	1 30	23 33	0 12	0 50	1 30	23 59	5 10	14 4	14 23	4 20	11 19	0 54
S 11	13 58	6 8	3 33	17 57	2 5	21 14	0 s 0	20 39	0 39	18 16	1 3	21 27	1 30	23 33	0 12	0 49	1 30	23 58	5 10	14 1	14 22	4 17	11 20	0 54
M12	13 38	0 s44	2 30	17 25	2 6	21 3	0 3	20 45	0 39	18 17	1 3	21 27	1 30	23 33	0 12	0 49	1 30	23 58	5 10	14 0	14 21	4 14	11 21	0 54
T 13	13 18	7 28	1 19	16 52	2 6	20 52	0 6	20 52	0 38	18 18	1 3	21 27	1 30	23 33	0 12	0 48	1 30	23 58	5 10	13 59	14 20	4 11	11 21	0 54
W14	12 57	13 39	0 4	16 17	2 5	20 40	0 9	20 59	0 37	18 19	1 4	21 28	1 30	23 33	0 12	0 48	1 30	23 57	5 11	13 58	14 19	4 7	11 22	0 54
T 15	12 37	18 59	1s 9	15 41	2 4	20 27	0 11	21 5	0 36	18 20	1 4	21 28	1 30	23 33	0 12	0 47	1 30	23 57	5 11	13 58	14 18	4 4	11 23	0 54
F 16	12 16	23 12	2 17	15 4	2 2	20 14	0 14	21 11	0 36	18 21	1 4	21 28	1 31	23 33	0 12	0 47	1 30	23 57	5 11	13 58	14 17	4 1	11 23	0 54
S 17	11 55	26 5	3 15	14 25	2 0	20 0	0 17	21 18	0 35	18 22	1 4	21 28	1 31	23 33	0 12	0 46	1 30	23 56	5 11	13 58	14 16	3 57	11 24	0 54
S 18	11 34	27 30	4 2	13 45	1 58	19 46	0 20	21 24	0 34	18 23	1 4	21 29	1 31	23 33	0 12	0 46	1 30	23 56	5 11	13 57	14 15	3 54	11 25	0 55
M19	11 13	27 26	4 36	13 3	1 55	19 31	0 22	21 29	0 33	18 24	1 4	21 29	1 31	23 33	0 12	0 45	1 30	23 56	5 11	13 54	14 13	3 51	11 26	0 55
T 20	10 51	25 57	4 57	12 20	1 51	19 16	0 25	21 35	0 32	18 24	1 4	21 29	1 31	23 33	0 12	0 44	1 30	23 56	5 11	13 51	14 12	3 48	11 26	0 55
W21	10 29	23 14	5 3	11 36	1 47	18 59	0 28	21 41	0 32	18 25	1 4	21 29	1 31	23 33	0 12	0 44	1 30	23 55	5 12	13 48	14 11	3 44	11 27	0 55
T 22	10 8	19 30	4 55	10 50	1 43	18 43	0 30	21 46	0 31	18 26	1 5	21 30	1 31	23 33	0 12	0 43	1 30	23 55	5 12	13 44	14 10	3 41	11 28	0 55
F 23	9 46	15 2	4 33	10 3	1 37	18 26	0 33	21 52	0 30	18 27	1 5	21 30	1 31	23 33	0 12	0 43	1 30	23 55	5 12	13 40	14 9	3 38	11 29	0 55
S 24	9 23	10 1	4 0	9 14	1 32	18 8	0 35	21 57	0 29	18 27	1 5	21 30	1 31	23 33	0 12	0 42	1 31	23 54	5 12	13 36	14 8	3 34	11 29	0 55
S 25	9 1	4 40	3 17	8 25	1 25	17 50	0 38	22 2	0 28	18 28		21 30		23 33	0 12	0 42	1 31	23 54	5 12	13 33	14 7	3 31	11 30	0 55
M26	8 39	0n49	2 25	7 34	1 18	17 31	0 40	22 7	0 27	18 28	1 5	21 30	1 31	23 33	0 12	0 41	1 31	23 54	5 12	13 31	14 6	3 28	11 31	0 55
T 27	8 16	6 16	1 27	6 43	1 11	17 12	0 42	22 12	0 26	18 29	1 5	21 30	1 31	23 33	0 12	0 40	1 31	23 54	5 12	13 29	14 5	3 25	11 32	0 55
W28	7 s54	11n32	0 s25	5 s 5 0	1 s 3	16s52	0 s45	22 s16	0n25	18 s29	1n 5	$21\mathrm{s}31$	1n32	23n33	0n12	0 s40	1n31	$23\mathrm{s}53$	5 s 1 3	13n29	14n 4	3 s21	11n33	0 s55

Julian Day Number = 2371588.5, Delta T = 22.31 sec Ecliptic obliquity = 23°28'11, Nutation = -0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 21°41'02, Lahiri =  $20^\circ48'02$ Greg. Calendar

MARCH 1781 00:00 UT

Day	Sid.t	0	D	ğ	Q	ď	24	ħ	)ţ(	¥	Р	n	Ω	Ç	ķ	Day
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T 1	10 36 35	10 <b>米</b> 50'00	13810	19 <b>∺</b> 36	16≈54	16 <b>×</b> 10	27 <b>M</b> .11	19×15	24°R24	5°R 8	5 <b>≈</b> 50	5 <b>8</b> 49	7 <b>8</b> 34	29 <b>米</b> 6	2842	T 1
F 2	10 40 31	11°50'06	25°16	21°31	18° 8	16°45	27°13	19°17	24°D24	5 <b>º</b> 6	5°51	5°50	7°31	29°13	2°44	F 2
S 3	10 44 28	12°50'10	7 <b>Ⅱ</b> 37	23°25	19°22	17°19	27°15	19°20	24∏24	5° 5	5°53	5°R51	7°28	29°19	2°47	S 3
S 4	10 48 24	13°50'12	20°19	25°18	20°36	17°53	27°17	19°22	24°24	5° 3	5°55	5°51	7°24	29°26	2°50	S 4
M 5	10 52 21	14°50'12	39526	27°10	21°51	18°26	27°19	19°25	24°24	5° 2	5°56	5°49	7°21	29°33	2°53	M 5
T 6	10 56 18	15°50'09	17° 2	29° 1	23° 5	19° 0	27°20	19°27	24°24	5° 0	5°58	5°46	7°18	29°39	2°56	T 6
W 7	11 0 14	16°50'05	1 <b>N</b> 8	0 <b>Ƴ</b> 49	24°19	19°34	27°22	19°29	24°24	4°59	5°59	5°40	7°15	29°46	2°59	W 7
T 8	11 411	17°49'58	15°41	2°35	25°33	20° 7	27°23	19°31	24°24	4°57	6° 1	5°33	7°12	29°53	3° 2	T 8
F 9	11 8 7	18°49'49	0 <b>₯</b> 39	4°18	26°48	20°41	27°23	19°33	24°25	4°56	6° 2	5°25	7° 9	29°59	3° 5	F 9
S 10	11 12 4	19°49'37	15°51	5°57	28° 2	21°14	27°24	19°35	24°25	4°54	6° 4	5°18	7° 5	0 <b>Υ</b> 6	3° 8	S 10
S 11	11 16 0	20°49'24	1₽ 7	7°32	29°16	21°48	27°25	19°37	24°26	4°53	6° 5	5°13	7° 2	0°13	3°11	S 11
M12	11 19 57	21°49'09	16°18	9° 3	0 <b>)</b> € 30	22°21	27°25	19°39	24°26	4°51	6° 6	5°10	6°59	0°19	3°14	M12
T 13	11 23 53	22°48'52	1 <b>M</b> .14	10°29	1°44	22°54	27°R25	19°41	24°27	4°49	6° 8	5°D 8	6°56	0°26	3°17	T 13
W14	11 27 50	23°48'33	15°47	11°49	2°59	23°27	27°25	19°42	24°27	4°48	6° 9	5° 9	6°53	0°33	3°21	W14
T 15	11 31 47	24°48'13	29°55	13° 3	4°13	24° 0	27°25	19°44	24°28	4°46	6°11	5°10	6°50	0°39	3°24	T 15
F 16	11 35 43	25°47'50	13 <b>×</b> 38	14°11	5°27	24°33	27°24	19°45	24°29	4°44	6°12	5°11	6°46	0°46	3°27	F 16
S 17	11 39 40	26°47'27	26°55	15°12	6°41	25° 5	27°24	19°46	24°29	4°43	6°13	5°R12	6°43	0°53	3°30	S 17
S 18	11 43 36	27°47'01	9 <b>ප</b> 51	16° 7	7°55	25°38	27°23	19°47	24°30	4°41	6°15	5°11	6°40	0°59	3°34	S 18
M19	11 47 33	28°46'34	22°28	16°54	9° 9	26°10	27°22	19°48	24°31	4°40	6°16	5° 9	6°37	1° 6	3°37	M19
T 20	11 51 29	29°46'05	4≈50	17°33	10°24	26°43	27°21	19°49	24°32	4°38	6°17	5° 4	6°34	1°13	3°40	T 20
W21	11 55 26	0 <b>Υ</b> 45'34	17° 0	18° 5	11°38	27°15	27°19	19°50	24°33	4°36	6°18	4°59	6°30	1°19	3°44	W21
T 22	11 59 22	1°45'01	29° 2	18°29	12°52	27°47	27°18	19°51	24°34	4°35	6°20	4°53	6°27	1°26	3°47	T 22
F 23	12 3 19	2°44'26	10 <b>) (</b> 57	18°46	14° 6	28°19	27°16	19°52	24°35	4°33	6°21	4°47	6°24	1°33	3°51	F 23
S 24	12 7 16	3°43'49	22°48	18°54	15°20	28°51	27°14	19°52	24°36	4°31	6°22	4°41	6°21	1°39	3°54	S 24
S 25	12 11 12	4°43'10	<b>4</b> Υ37	18°R56	16°35	29°22	27°12	19°53	24°37	4°30	6°23	4°37	6°18	1°46	3°58	S 25
M26	12 15 9	5°42'29	16°25	18°49	17°49	29°54	27°10	19°53	24°39	4°28	6°24	4°34	6°15	1°53	4° 1	M26
T 27	12 19 5	6°41'46	28°16	18°36	19° 3	0 සි 25	27° 7	19°53	24°40	4°26	6°25	4°33	6°11	1°59	4° 5	T 27
W28	12 23 2	7°41'01	10810	18°16	20°17	0°56	27° 5	19°53	24°41	4°25	6°26	4°D33	6° 8	2° 6	4° 9	W28
T 29	12 26 58	8°40'14	22°11	17°50	21°31	1°27	27° 2	19°R53	24°43	4°23	6°27	4°34	6° 5	2°13	4°12	T 29
F 30	12 30 55	9°39'24	4 <b>Ⅱ</b> 22	17°19	22°45	1°58	26°59	19°53	24°44	4°21	6°29	4°35	6° 2	2°19	4°16	F 30
S 31	12 34 51	10 <b>Y</b> 38'32	16 <b>Ⅱ</b> 47	16 <b>Y</b> 43	23 <b>米</b> 59	2 <b>る</b> 29	26M56	19 <b>∡</b> 753	24∏45	4 <b>₽</b> 20	6≈30	4 <b>8</b> 37	5 <b>8</b> 59	2 <b>Υ</b> 26	4 <b>8</b> 20	S 31

Day	0	D	ğ	i	φ	С	?	2	+	ŧ		)	f(	¥		Р	n	Ω	Ç	ķ	
	decl	decl lat	decl	lat	decl lat	t decl	lat	decl	lat	decl	lat	decl	lat	decl lat	de	el lat	decl	decl	decl	decl	lat
T 1 F 2 S 3	7 s31 7 8 6 45	16n26 0n3 20 46 1 4 24 17 2 4	3 4 3	0 44 1	16 12 (	0 s47 22 s21 0 49 22 25 0 51 22 29	0n24 0 24 0 23	18 30	-	21 s31 21 31 21 31	1 32	23n33 23 33 23 33	0 12	0s39 1n 0 39 1 0 38 1		5 13	13n29 13 29 13 29		3 15	11n34 11 35 11 36	0 s55 0 55 0 55
S 4 M 5 T 6 W 7 T 8 F 9	6 22	26 43 3 3 27 46 4 2 27 12 4 5 24 55 5 20 58 5	6 2 14 0 1 19 2 0 25 7 0n30 3 1 23	0 24 1 0 13 1 0 1 1 0n11 1 0 23 1	15 29 (15 7 (14 45 (15 15 15 15 15 15 15 15 15 15 15 15 15 1	) 53 22 34 0 55 22 38 0 58 22 41 0 59 22 45 1 1 22 49 1 3 22 52	0 22 0 21 0 19 0 18 0 17		1 6 1 6 1 6 1 6 1 6 1 7	21 31 21 31 21 31 21 31 21 31	1 32 1 32 1 32 1 32 1 32 1 32	23 33 23 33 23 33 23 33 23 33 23 33	0 12 0 12 0 12 0 12 0 12 0 12		31 23 5 31 23 5 31 23 5 31 23 5 31 23 5	5 13 5 5 13 5 5 14 5 14 5 14	13 29 13 29 13 27 13 26 13 23		3 8 3 5 3 2 2 58 2 55 2 52	11 37 11 37 11 38 11 39 11 40 11 41	0 55 0 55 0 55 0 55 0 55 0 55
S 10 S 11 M12 T 13 W14 T 15 F 16 S 17	4 2 3 38 3 15 2 51 2 28 2 4 1 40 1 17	2 12 2 5 4s53 1 4 11 35 0 2 17 30 0s5 22 17 2 1 25 40 3 1	3 3 56 0 4 44 1 5 30 8 6 14 1 6 54	1 2 1 1 15 1 1 28 1 1 41 1 1 54 1 2 6 1	11 32 1 11 7 1 10 41 1	1 7 22 59		18 31 18 31 18 31 18 31	1 7 1 7 1 7 1 7 1 7	21 32 21 32 21 32 21 32	1 33 1 33 1 33 1 33 1 33 1 33	23 33 23 33	0 12 0 12 0 12 0 12 0 12 0 12	0 33 1 1 0 32 1 0 31 1 0 30 1 0 30 1	31 23 5 31 23 5 31 23 5 31 23 5	5 14 5 15 5 0 5 15 60 5 15 60 5 15 60 5 15	13 17 13 16 13 15 13 15 13 16 13 16	13 54 13 53 13 52 13 51 13 50 13 49 13 48 13 47	2 45 2 42 2 38 2 35 2 32 2 28	11 42 11 43 11 44 11 45 11 47 11 48 11 49 11 50	0 55 0 55 0 55 0 55 0 55 0 56 0 56 0 56
S 18 M19 T 20 W21 T 22 F 23 S 24	0 53 0 29 0 6 0n18 0 42 1 5 1 29	26 35 5 24 6 5 1 20 35 5 16 16 4 4	4 9 6 1 9 30 4 9 50 4 10 6 2 10 19	2 39 2 49 2 58 3 5 3 11	9 21 1 8 55 1 8 27 1 8 0 1 7 32 1	1 17 23 18 1 18 23 20 1 20 23 23 1 21 23 25 1 22 23 27 1 23 23 29 1 24 23 30	0 6 0 4 0 3 0 2 0 0 0s 1 0 2	18 30 18 29 18 29 18 29 18 28	1 8 1 8 1 8 1 8 1 8 1 8	21 32 21 32 21 32 21 32	1 33 1 33 1 33 1 34 1 34	23 33 23 33 23 33	0 12 0 12 0 12 0 12 0 12	0 28 1 1 0 28 1 1 0 27 1 1 0 26 1 0 25 1 0 24 1 1	31 23 4 31 23 4 31 23 4 31 23 4 31 23 4	5 16 9 5 16 9 5 16 9 5 16 9 5 16 9 5 17	13 15 13 14 13 12 13 10 13 8	13 46 13 44 13 43 13 42 13 41 13 40 13 39	2 19 2 15 2 12 2 9 2 5	11 51 11 52 11 53 11 54 11 55 11 56 11 58	0 56 0 56 0 56 0 56 0 56 0 56 0 56
S 25 M26 T 27 W28 T 29 F 30 S 31	1 53 2 16 2 40 3 3 3 27 3 50 4n13	15 22 0n3 19 53 1 3	8 10 30 4 10 25 1 10 17 6 10 4 7 9 48	3 22 3 23 3 22 3 19 3 15	6 8 1 5 40 1 5 11 1 4 42 1 4 13 1	1 25 23 32 1 25 23 33 1 26 23 35 1 27 23 36 1 27 23 37 1 28 23 39 1 s28 23 s40	0 11	18 26 18 26 18 25 18 24	1 8 1 9 1 9 1 9 1 9 1 9	21 31 21 31 21 31 21 31	1 34 1 34 1 34 1 34	23 33 23 33 23 33	0 12 0 12 0 12 0 12 0 12	0 23 1 1 0 22 1 1 0 22 1 1 0 20 1 1 1 0 20 1 1 1 1	31 23 4 31 23 4 31 23 4	9 5 17 9 5 17 8 5 18 8 5 18 8 5 18	13 4 13 3 13 3 13 3	13 37 13 36 13 35 13 34 13 33	1 55 1 52 1 49 1 45 1 42	12 1 12 2 12 3	0 56 0 56 0 56 0 56 0 56 0 56 0 56

Julian Day Number = 2371616.5, Delta T = 22.31 sec Ecliptic obliquity =  $23^{\circ}28'12$ , Nutation = -  $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $21^{\circ}41'06$ , Lahiri =  $20^{\circ}48'06$ Greg. Calendar

APRIL 1781 00:00 UT

AI IV	L 1/0:	-													00.0	0 0.
Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	卉	Р	u	v	Ç	ķ	Day
S 1	12 38 48	11 <b>Y</b> 37'38	29耳30	16°R 2	25 <b>)</b> 13	3ට 0	26°R52	19°R53	24∏47	4°R18	6≈31	4 <b>8</b> 38	5 <b>8</b> 56	2 <b>Υ</b> 33	4 <b>8</b> 23	S 1
M 2	12 42 44	12°36'42	12933	15 <b>Y</b> 19	26°28	3°30	26M49	19 <b>×7</b> 53	24°49	4 <b>₽</b> 16	6°31	4°R39	5°52	2°39	4°27	M 2
T 3	12 46 41	13°35'43	26° 1	14°33	27°42	4° 0	26°45	19°52	24°50	4°15	6°32	4°38	5°49	2°46	4°31	T 3
W 4	12 50 38	14°34'42	9 <b>Ω</b> 56	13°47	28°56	4°30	26°41	19°52	24°52	4°13	6°33	4°37	5°46	2°53	4°35	W 4
T 5	12 54 34	15°33'39	24°16	12°59	0 <b>Υ</b> 10	5° 0	26°37	19°51	24°53	4°12	6°34	4°35	5°43	2°59	4°38	T 5
F 6	12 58 31	16°32'33	9 <b>m</b> ) 0	12°13	1°24	5°30	26°33	19°50	24°55	4°10	6°35	4°32	5°40	3° 6	4°42	F 6
S 7	13 2 27	17°31'25	24° 1	11°27	2°38	6° 0	26°28	19°49	24°57	4° 8	6°36	4°30	5°36	3°13	4°46	S 7
S 8	13 6 24	18°30'15	9 <b>₽</b> 12	10°44	3°52	6°29	26°24	19°48	24°59	4° 7	6°37	4°28	5°33	3°19	4°50	S 8
M 9	13 10 20	19°29'03	24°24	10° 4	5° 6	6°58	26°19	19°47	25° 1	4° 5	6°38	4°27	5°30	3°26	4°54	M 9
T 10	13 14 17	20°27'48	9 <b>M</b> 25	9°27	6°20	7°27	26°14	19°46	25° 3	4° 4	6°38	4°D27	5°27	3°33	4°57	T 10
W11	13 18 13	21°26'32	24° 9	8°54	7°34	7°56	26° 9	19°45	25° 5	4° 2	6°39	4°28	5°24	3°39	5° 1	W11
T 12	13 22 10	22°25'15	8 <b>₹</b> 29	8°26	8°48	8°24	26° 4	19°44	25° 7	4° 0	6°40	4°29	5°21	3°46	5° 5	T 12
F 13	13 26 7	23°23'55	22°23	8° 2	10° 2	8°53	25°59	19°42	25° 9	3°59	6°40	4°30	5°17	3°53	5° 9	F 13
S 14	13 30 3	24°22'34	5 <b>る</b> 50	7°43	11°16	9°21	25°54	19°41	25°11	3°57	6°41	4°31	5°14	3°59	5°13	S 14
S 15	13 34 0	25°21'11	18°52	7°30	12°30	9°49	25°48	19°39	25°13	3°56	6°42	4°31	5°11	4° 6	5°17	S 15
M16	13 37 56	26°19'47	1≈31	7°21	13°44	10°16	25°42	19°38	25°15	3°54	6°42	4°R31	5° 8	4°13	5°21	M16
T 17	13 41 53	27°18'21	13°52	7°D18	14°58	10°44	25°37	19°36	25°17	3°53	6°43	4°31	5° 5	4°19	5°25	T 17
W18	13 45 49	28°16'53	25°59	7°19	16°12	11°11	25°31	19°34	25°20	3°51	6°43	4°30	5° 1	4°26	5°29	W18
T 19	13 49 46	29°15'23	7 <b>∺</b> 56	7°26	17°26	11°38	25°25	19°32	25°22	3°50	6°44	4°29	4°58	4°33	5°33	T 19
F 20	13 53 42	0813'52	19°47	7°38	18°40	12° 5	25°18	19°30	25°24	3°49	6°44	4°29	4°55	4°39	5°37	F 20
S 21	13 57 39	1°12'19	1 <b>Y</b> 35	7°54	19°54	12°31	25°12	19°28	25°27	3°47	6°45	4°28	4°52	4°46	5°40	S 21
S 22	14 1 36	2°10'44	13°23	8°15	21° 8	12°57	25° 6	19°26	25°29	3°46	6°45	4°28	4°49	4°53	5°44	S 22
M23	14 5 32	3° 9'07	25°14	8°41	22°22	13°23	24°59	19°23	25°32	3°44	6°46	4°28	4°46	4°59	5°48	M23
T 24	14 9 29	4° 7'29	7 <b>8</b> 11	9°10	23°36	13°49	24°53	19°21	25°34	3°43	6°46	4°28	4°42	5° 6	5°52	T 24
W25	14 13 25	5° 5'49	19°15	9°44	24°50	14°14	24°46	19°18	25°37	3°41	6°46	4°28	4°39	5°13	5°56	W25
T 26	14 17 22	6° 4'07	1 <b>II</b> 27	10°22	26° 4	14°39	24°39	19°16	25°39	3°40	6°47	4°28	4°36	5°19	6° 0	T 26
F 27	14 21 18	7° 2'23	13°51	11° 3	27°17	15° 4	24°32	19°13	25°42	3°39	6°47	4°27	4°33	5°26	6° 4	F 27
S 28	14 25 15	8° 0'37	26°28	11°49	28°31	15°28	24°25	19°11	25°45	3°38	6°47	4°27	4°30	5°33	6° 8	S 28
S 29	14 29 11	8°58'50	9920	12°37	29°45	1 <u>5</u> °52	24°18	19° 8	25°47	3°36	6°48	4°27	4°27	5°39	6°12	S 29
M30	14 33 8	9 <b>8</b> 57'00	225629	13 <b>Υ</b> 29	0 <b>8</b> 59	16 <b>궁</b> 16	24M 11	19 <b>×</b> 5	25 <b>Ⅱ</b> 50	3 <b>≙</b> 35	6≈48	4826	4823	5 <b>Υ</b> 46	6 <b>8</b> 16	M30

Day	0	D	ğ	(	<del>2</del>	♂		24	-	ħ	l	)į	γ(	Ä	Ţ	Р	)	n	ß	Ç	ķ
	decl	decl lat	decl la	at decl	lat	decl la	ıt	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl lat
S 1	4n36	27n46 4n1	8 9n 6	3n 1 3s15	1 s29	23 s41	0s14	18 s22	1n 9	21 s31	1n34	23n34	0n12	0s19	1n31	23 s48	5 s 1 8	13n 5	13n31	1 s35	12n 7 0s56
M 2	4 59	27 44 4 5	2 8 41	2 52 2 46	1 29	23 41	0 16	18 21	1 9	21 31	1 35	23 34	0 12	0 18	1 31	23 48	5 19	13 5	13 30	1 32	12 8 0 57
T 3	5 22	26 4 5 1	2 8 13	2 41 2 17	1 29	23 42	0 18	18 20	1 9	21 31	1 35	23 34	0 12	0 18	1 31	23 48	5 19	13 5	13 29	1 29	12 9 0 57
W 4	5 45	22 49 5 1	4 7 44	2 29 1 48	1 30	23 43	0 19	18 19	1 9	21 30	1 35	23 34	0 12	0 17	1 31	23 48	5 19	13 4	13 28	1 25	12 10 0 57
T 5	6 8	18 7 4 5	7 7 13	2 16 1 18	1 30	23 44	0 21	18 18	1 9	21 30	1 35	23 34	0 12	0 16	1 31	23 48	5 19	13 4	13 27	1 22	12 12 0 57
F 6	6 31	12 14 4 2	1 6 42	2 2 0 49	1 30	23 44	0 23	18 17	1 10	21 30	1 35	23 34	0 12	0 16	1 31	23 48	5 20	13 3	13 26	1 19	12 13 0 57
S 7	6 53	5 31 3 2	5 6 10	1 46 0 19	1 30	23 45	0 25	18 16	1 10	21 30	1 35	23 34	0 12	0 15	1 31	23 48	5 20	13 2	13 24	1 15	12 14 0 57
S 8	7 16	1 s35 2 1	5 5 39	1 31 0n10	1 30	23 45	0 26	18 15	1 10	21 30	1 35	23 34	0 12	0 15	1 31	23 48	5 20	13 2	13 23	1 12	12 15 0 57
M 9	7 38	8 36 0 5	5 5 8	1 14 0 40	1 29			18 13	1 10	21 30	1 35	23 34	0 12	0 14	1 31	23 48	5 20	13 1	13 22	1 9	12 17 0 57
T 10	8 0	15 5 0s2	7 4 38	0 58 1 9	1 29	23 46	0 30	18 12	1 10	21 30	1 35	23 34	0 12	0 13	1 31	23 48	5 20	13 1	13 21	1 5	12 18 0 57
W11	8 22	20 34 1 4	7 4 10	0 41 1 39	1 29	23 46	0 32	18 11	1 10	21 29	1 35	23 34	0 12	0 13	1 31	23 48	5 21	13 1	13 20	1 2	12 19 0 57
T 12	8 44	24 40 2 5	8 3 44	0 25 2 8	1 29	23 46	0 34	18 10	1 10	21 29	1 35	23 34	0 12	0 12	1 31	23 48	5 21	13 2	13 19	0 59	12 20 0 57
F 13	9 6	27 10 3 5	6 3 19	0 9 2 38	1 28	23 46	0 36	18 9	1 10	21 29	1 35	23 35	0 12	0 12	1 31	23 48	5 21	13 2	13 18	0 55	12 21 0 57
S 14	9 28	27 59 4 3	8 2 57	0s 7 3 7	1 28	23 46	0 38	18 7	1 10	21 29	1 36	23 35	0 12	0 11	1 31	23 48	5 21	13 2	13 17	0 52	12 23 0 57
S 15	9 49	27 11 5	5 2 38	0 23 3 36	1 27	23 46	0 40	18 6	1 10	21 29	1 36	23 35	0 12	0 10	1 31	23 48	5 22	13 3	13 16	0 49	12 24 0 57
M16	10 10	24 59 5 1	7 2 20	0 38 4 6	1 27	23 46	0 42	18 5	1 10	21 28	1 36	23 35	0 12	0 10	1 31	23 48			13 15	0 45	12 25 0 57
T 17	10 32	21 40 5	3 2 6	0 52 4 35	1 26	23 46	0 44	18 3	1 10	21 28	1 36	23 35	0 12	0 9	1 31	23 48	5 22	13 2	13 14	0 42	12 26 0 57
W18	10 53	17 30 4 5	5 1 54	1 6 5 4	1 25	23 46	0 46	18 2	1 10	21 28	1 36	23 35	0 12	0 9	1 31	23 48	5 22	13 2	13 13	0 39	12 28 0 58
T 19	11 13	12 42 4 2	5 1 45	1 19 5 33	1 24	23 46	0 48	18 0	1 10	21 28	1 36	23 35	0 12	0 8	1 31	23 49	5 22	13 2	13 12	0 35	12 29 0 58
F 20	11 34	7 29 3 4	3 1 38	1 31 6 2	1 24	23 45	0 50	17 59	1 10	21 28	1 36	23 35	0 12	0 7	1 31	23 49	5 23	13 2	13 11	0 32	12 30 0 58
S 21	11 54	2 1 2 5	3 1 34	1 43 6 31	1 23	23 45	0 53	17 57	1 10	21 27	1 36	23 35	0 12	0 7	1 31	23 49	5 23	13 2	13 10	0 29	12 31 0 58
S 22	12 15	3n32 1 5	4 1 32	1 54 6 59	1 22	23 45	0 55	17 56	1 10	21 27	1 36	23 35	0 12	0 6	1 31	23 49	5 23	13 2	13 9	0 25	12 33 0 58
M23	12 35	8 59 0 5	1 1 33	2 4 7 28	1 21	23 45	0 57	17 54	1 10	21 27	1 36	23 35	0 12	0 6	1 31	23 49	5 23	13 1	13 7	0 22	12 34 0 58
T 24	12 55	14 10 0n	5 1 36	2 13 7 56	1 20	23 44	1 0	17 52	1 10	21 27	1 36	23 35	0 12	0 5	1 31	23 49	5 24	13 1	13 6	0 19	12 35 0 58
W25	13 14	18 52 1 2	1 1 42	2 21 8 25	1 19	23 44	1 2	17 51	1 10	21 26	1 36	23 36	0 12	0 5	1 31	23 49	5 24	13 1	13 5	0 15	12 36 0 58
T 26	13 34	22 50 2 2	4 1 49	2 29 8 53	1 17	23 44	1 4	17 49	1 10	21 26	1 36	23 36	0 12	0 4	1 31	23 49	5 24	13 1	13 4	0 12	12 37 0 58
F 27	13 53	25 50 3 2	2 1 59	2 36 9 20	1 16	23 44	1 7	17 48	1 10	21 26	1 36	23 36	0 12	0 4	1 31	23 49	5 24	13 1	13 3	0 9	12 39 0 58
S 28	14 12	27 36 4 1	0 2 11	2 42 9 48	1 15	23 43	1 9	17 46	1 10	21 26	1 36	23 36	0 12	0 3	1 31	23 50	5 24	13 1	13 2	0 5	12 40 0 58
S 29	14 31	27 55 4 4	7 2 25	2 47 10 15	1 13	23 43	1 12	17 44	1 10	21 25	1 36	23 36	0 12	0 3	1 31	23 50	5 25	13 1	13 1	0 2	12 41 0 58
M30	14n49	26n42 5n	0 2n41	2 s 5 2 1 0 n 4 2	1 s12	23 s43	1 s 1 5	$17\mathrm{s}42$	1n10	21 s25	1n36	23n36	0n12	0s 2	1n31	23 s50	5 s25	13n 1	13n 0	0n 2	12n42 0s59

 $\label{eq:Julian Day Number = 2371647.5, Delta T = 22.31 sec} \\ Ecliptic obliquity = 23°28'12, Nutation = -0°00'10, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 21°41'10, Lahiri = 20°48'10Greg. Calendar \\ \\$ 

MAY 1781 00:00 UT

Day	Sid.t	$\odot$	D	Ϋ́	φ	♂	4	ħ	)∤(	卉	Р	r	v	Ç	Š	Day
T 1	14 37 5	10855'08	5 <b>Ω</b> 56	14Υ25	2 <b>8</b> 13	16 <b>궁</b> 39	24°R 4	19°R 2	25 <b>Ⅱ</b> 53	3°R34	6≈48	4°D26	4 <b>8</b> 20	5 <b>Υ</b> 53	6 <b>8</b> 20	T 1
W 2	14 41 1	11°53'14	19°43	15°23	3°27	17° 2	23M56	18 <b>∡</b> 759	25°56	3 <b>॒</b> 32	6°48	4826	4°17	5°59	6°24	W 2
T 3	14 44 58	12°51'19	3 <b>m</b> 50	16°24	4°41	17°25	23°49	18°56	25°58	3°31	6°48	4°26	4°14	6° 6	6°28	T 3
F 4	14 48 54	13°49'21	18°16	17°28	5°55	17°48	23°42	18°53	26° 1	3°30	6°48	4°27	4°11	6°13	6°32	F 4
S 5	14 52 51	14°47'21	2 <b>≏</b> 57	18°35	7° 8	18°10	23°34	18°50	26° 4	3°29	6°49	4°28	4° 7	6°19	6°36	S 5
S 6	14 56 47	15°45'20	17°48	19°45	8°22	18°31	23°27	18°46	26° 7	3°28	6°49	4°29	4° 4	6°26	6°40	S 6
M 7	15 0 44	16°43'16	2 <b>M</b> 43	20°57	9°36	18°52	23°19	18°43	26°10	3°27	6°R49	4°R29	4° 1	6°33	6°44	M 7
T 8	15 4 40	17°41'11	17°34	22°11	10°50	19°13	23°12	18°39	26°13	3°26	6°49	4°29	3°58	6°39	6°48	T 8
W 9	15 8 37	18°39'05	2 <b>₹</b> 13	23°29	12° 4	19°34	23° 4	18°36	26°16	3°25	6°49	4°28	3°55	6°46	6°52	W 9
T 10	15 12 34	19°36'57	16°34	24°48	13°17	19°54	22°57	18°32	26°19	3°24	6°49	4°26	3°52	6°53	6°55	T 10
F 11	15 16 30	20°34'48	0 <b>궁</b> 32	26°10	14°31	20°13	22°49	18°29	26°22	3°23	6°48	4°24	3°48	6°59	6°59	F 11
S 12	15 20 27	21°32'38	14° 5	27°35	15°45	20°33	22°41	18°25	26°25	3°22	6°48	4°22	3°45	7° 6	7° 3	S 12
S 13	15 24 23	22°30'26	27°13	29° 1	16°59	20°51	22°34	18°22	26°28	3°21	6°48	4°20	3°42	7°13	7° 7	S 13
M14	15 28 20	23°28'13	9 <b>≈</b> 57	0 <b>8</b> 30	18°13	21°10	22°26	18°18	26°31	3°20	6°48	4°19	3°39	7°19	7°11	M14
T 15	15 32 16	24°25'59	22°21	2° 1	19°26	21°28	22°18	18°14	26°34	3°19	6°48	4°D18	3°36	7°26	7°15	T 15
W16	15 36 13	25°23'44	4 <b>) (</b> 28	3°35	20°40	21°45	22°11	18°10	26°38	3°18	6°48	4°18	3°33	7°33	7°19	W16
T 17	15 40 9	26°21'27	16°25	5°10	21°54	22° 2	22° 3	18° 6	26°41	3°17	6°47	4°19	3°29	7°39	7°22	T 17
F 18	15 44 6	27°19'10	28°15	6°48	23° 8	22°18	21°56	18° 2	26°44	3°16	6°47	4°21	3°26	7°46	7°26	F 18
S 19	15 48 3	28°16'51	10 <b>°</b> 3	8°28	24°21	22°34	21°48	17°58	26°47	3°15	6°47	4°22	3°23	7°53	7°30	S 19
S 20	15 51 59	29°14'31	21°53	10°11	25°35	22°49	21°40	17°54	26°50	3°15	6°46	4°24	3°20	7°59	7°34	S 20
M21	15 55 56	0 <b>Ⅲ</b> 12'11	3 <b>8</b> 49	11°55	26°49	23° 4	21°33	17°50	26°54	3°14	6°46	4°R24	3°17	8° 6	7°37	M21
T 22	15 59 52	1° 9'49	15°54	13°42	28° 3	23°18	21°25	17°46	26°57	3°13	6°46	4°24	3°13	8°13	7°41	T 22
W23	16 3 49	2° 7'26	28°10	15°31	29°17	23°32	21°18	17°42	27° 0	3°12	6°45	4°22	3°10	8°19	7°45	W23
T 24	16 7 45	3° 5'02	10 <b>Ⅲ</b> 39	17°22	0Д30	23°45	21°11	17°38	27° 4	3°12	6°45	4°19	3° 7	8°26	7°49	T 24
F 25	16 11 42	4° 2'36	23°21	19°16	1°44	23°58	21° 3	17°33	27° 7	3°11	6°45	4°14	3° 4	8°33	7°52	F 25
S 26	16 15 38	5° 0'10	69518	21°11	2°58	24°10	20°56	17°29	27°11	3°11	6°44	4°10	3° 1	8°39	7°56	S 26
S 27	16 19 35	5°57'42	19°28	23° 9	4°12	24°21	20°49	17°25	27°14	3°10	6°44	4° 5	2°58	8°46	8° 0	S 27
M28	16 23 32	6°55'13	2 <b>Ω</b> 52	25° 8	5°25	24°32	20°42	17°21	27°17	3° 9	6°43	4° 0	2°54	8°52	8° 3	M28
T 29	16 27 28	7°52'43	16°28	27°10	6°39	24°42	20°35	17°16	27°21	3° 9	6°42	3°57	2°51	8°59	8° 7	T 29
W30	16 31 25	8°50'11	0 <b>m</b> 18	29°13	7°53	24°51	20°28	17°12	27°24	3° 8	6°42	3°56	2°48	9° 6	8°10	W30
T 31	16 35 21	9 <b>Ⅱ</b> 47'38	14 <b>M</b> p19	1 <b>I</b> I18	9 <b>I</b> I 6	25る 0	20 <b>M</b> 21	17 <b>才</b> 8	27 <b>Ⅲ</b> 28	3 <b>₾</b> 8	6≈41	3°D55	2 <b>8</b> 45	9 <b>Υ</b> 12	8 <b>8</b> 14	T 31

Day	0	D	ğ	·	♂ <sup>™</sup>	4	ħ	)∤(	¥	Р	w 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 dec	el lat
T 1 W 2	15n 7 15 25		3 19 2 5	59 11 36 1 9	23 42 1 20	17 39 1 10	21 25 1 37	23n36 0n12 23 36 0 12	0 1 1 31	23 50 5 25		0 8 12 4	5 0 59
T 3 F 4 S 5	15 43 16 0 16 18		4 2 3	2 12 2 1 8 3 12 28 1 6 5 12 54 1 4	23 42 1 25	17 35 1 10	21 24 1 37	23 36 0 12 23 36 0 12 23 36 0 12	0 0 1 31	23 51 5 26	13 1 12 56		7 0 59
S 6 M 7 T 8	16 35 16 51	12 17 0 10	5 20 3	5 13 20 1 3 5 13 45 1 1	23 41 1 34	17 30 1 10	21 23 1 37	23 36 0 12 23 37 0 12 23 37 0 12	0 1 1 31	23 51 5 27	13 2 12 52	0 25 12 5	0 59
W 9 T 10 F 11	17 8 17 24 17 40	23 3 2 28	6 18 3 6 49 3	0 14 58 0 55	23 41 1 40 23 41 1 43	17 26 1 10 17 24 1 10	21 22 1 37 21 22 1 37	23 37 0 12 23 37 0 12 23 37 0 12 23 37 0 12	0 2 1 31 0 2 1 31	23 52 5 27 23 52 5 27	13 1 12 50 13 1 12 49	0 28 12 5 0 32 12 5 0 35 12 5 0 38 12 5	0 59 0 59
S 12 S 13	18 10	27 38 4 56	7 54 2 5	55 15 45 0 52	23 42 1 49	17 21 1 10	21 21 1 37	23 37 0 12 23 37 0 12 23 37 0 12	0 3 1 30	23 52 5 28	12 59 12 47 12 59 12 46	0 42 12 5	7 1 0
M14 T 15 W16 T 17 F 18	18 40 18 54 19 8 19 22 19 35	18 49 5 0 14 7 4 33	9 40 2 4 10 17 2 3 10 55 2 3	41 16 53 0 46 36 17 15 0 43 30 17 36 0 41	23 43 1 59 23 43 2 2 23 44 2 6	17 15 1 9 17 13 1 9 17 11 1 9	21 20 1 37 21 20 1 37 21 20 1 37	23 37 0 12 23 37 0 12 23 37 0 12 23 37 0 12 23 38 0 12	0 4 1 30 0 4 1 30 0 4 1 30	23 53 5 28 23 54 5 29 23 54 5 29	12 58 12 45 12 58 12 44 12 58 12 43 12 59 12 42 12 59 12 41	0 48 12 5 0 52 13 0 55 13 0 59 13 1 2 13	39     1     0       0     1     0       1     1     0       3     1     0       4     1     0
S 19 S 20 M21 T 22	19 48 20 1 20 13 20 25	7 29 1 8 12 45 0 3		9 18 37 0 35 1 18 56 0 33	23 46 2 13 23 46 2 16 23 48 2 20 23 49 2 24	17 6 1 9 17 4 1 9	21 19 1 37 21 18 1 37		0 5 1 30 0 6 1 30	23 55 5 29 23 55 5 30	13 0 12 38 13 0 12 37	1 9 13 1 12 13	5 1 0 6 1 0 7 1 0 8 1 1
W23 T 24 F 25 S 26	20 37 20 48 20 59 21 10	25 8 3 6 27 14 3 57	15 32 1 3 16 12 1 2	34 19 52 0 26 25 20 9 0 24	23 51 2 31 23 53 2 35	16 59 1 8 16 57 1 8	21 17 1 37 21 17 1 37		0 6 1 30 0 7 1 30	23 56 5 30 23 56 5 31	13 0 12 35 12 58 12 34 12 57 12 33 12 55 12 32	1 25 13 1	2 1 1
T 29 W30		24 36 5 12 20 45 5 5 15 44 4 40	18 12 0 5 18 50 0 4 19 28 0 3	54 20 58 0 17 44 21 13 0 14 33 21 27 0 12	23 58 2 46 24 0 2 50 24 3 2 54	16 52 1 8 16 50 1 8 16 48 1 7	21 16 1 37 21 15 1 37 21 15 1 36	23 38 0 12 23 38 0 12 23 38 0 12 23 38 0 12 23 39 0 12	0 7 1 30 0 7 1 30 0 7 1 30	23 57 5 31 23 58 5 31 23 58 5 32	12 54 12 31 12 52 12 30 12 51 12 29 12 51 12 28 12n51 12n26	1 36 13 1 1 39 13 1 1 42 13 1	5 1 1 6 1 1 7 1 1

Julian Day Number = 2371677.5, Delta T = 22.31 sec Ecliptic obliquity =  $23^{\circ}28'11$ , Nutation = -  $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $21^{\circ}41'14$ , Lahiri =  $20^{\circ}48'15$ Greg. Calendar

JUNE 1781 00:00 UT

OUIL	- 1/01														00.0	0.
Day	Sid.t	0	D	ğ	Q.	♂	4	ħ	)∤(	卉	Р	u	Ω	Ç	ķ	Day
F 1	16 39 18	10 <b>Ⅱ</b> 45'04	28 <b>m</b> /31	3 <b>Ⅱ</b> 25	10Ⅱ20	25 <b>궁</b> 8	20°R14	17°R 3	27 <b>II</b> 31	3°R 8	6°R41	3 <b>8</b> 56	2 <b>8</b> 42	9 <b>Υ</b> 19	8 <b>8</b> 17	F 1
S 2	16 43 14	11°42'28	12 <b>≏</b> 52	5°33	11°34	25°16	20 <b>M</b> 7	16 <b>₹</b> 59	27°35	3 <b>₾</b> 7	6≈40	3°58	2°39	9°26	8°21	S 2
S 3	16 47 11	12°39'51	27°19	7°43	12°48	25°22	20° 1	16°54	27°38	3° 7	6°39	3°R59	2°35	9°32	8°24	S 3
M 4	16 51 7	13°37'13	11 <b>M</b> .49	9°53	14° 1	25°29	19°54	16°50	27°42	3° 7	6°39	3°59	2°32	9°39	8°28	M 4
T 5	16 55 4	14°34'35	26°18	12° 5	15°15	25°34	19°48	16°46	27°45	3° 6	6°38	3°57	2°29	9°46	8°31	T 5
W 6	16 59 1	15°31'55	10 <b>×</b> 39	14°16	16°29	25°39	19°42	16°41	27°49	3° 6	6°37	3°53	2°26	9°52	8°34	W 6
T 7	17 2 57	16°29'15	24°47	16°28	17°42	25°43	19°35	16°37	27°52	3° 6	6°36	3°48	2°23	9°59	8°38	T 7
F 8	17 6 54	17°26'33	8 <b>궁</b> 37	18°40	18°56	25°46	19°29	16°32	27°56	3° 6	6°36	3°41	2°19	10° 6	8°41	F 8
S 9	17 10 50	18°23'52	22° 7	20°52	20°10	25°49	19°24	16°28	27°59	3° 5	6°35	3°34	2°16	10°12	8°44	S 9
S 10	17 14 47	19°21'09	5≈14	23° 3	21°24	25°51	19°18	16°24	28° 3	3° 5	6°34	3°27	2°13	10°19	8°48	S 10
M11	17 18 43	20°18'27	17°59	25°14	22°37	25°52	19°12	16°19	28° 6	3° 5	6°33	3°21	2°10	10°26	8°51	M11
T 12	17 22 40	21°15'43	0 <b>∺</b> 24	27°23	23°51	25°R52	19° 6	16°15	28°10	3° 5	6°32	3°17	2° 7	10°32	8°54	T 12
W13	17 26 37	22°13'00	12°33	29°31	25° 5	25°52	19° 1	16°10	28°14	3° 5	6°31	3°15	2° 4	10°39	8°57	W13
T 14	17 30 33	23°10'16	24°30	19937	26°18	25°51	18°56	16° 6	28°17	3°D 5	6°31	3°D14	2° 0	10°46	9° 0	T 14
F 15	17 34 30	24° 7'31	6 <b>Υ</b> 21	3°42	27°32	25°49	18°51	16° 2	28°21	3° 5	6°30	3°15	1°57	10°52	9° 3	F 15
S 16	17 38 26	25° 4'47	18° 9	5°46	28°46	25°46	18°46	15°57	28°24	3° 5	6°29	3°16	1°54	10°59	9° 6	S 16
S 17	17 42 23	26° 2'02	0 <b>8</b> 2	7°47	29°59	25°43	18°41	15°53	28°28	3° 5	6°28	3°R17	1°51	11° 6	9° 9	S 17
M18	17 46 19	26°59'17	12° 2	9°46	19913	25°39	18°36	15°49	28°31	3° 5	6°27	3°16	1°48	11°12	9°12	M18
T 19	17 50 16	27°56'32	24°15	11°44	2°27	25°34	18°32	15°44	28°35	3° 6	6°26	3°14	1°45	11°19	9°15	T 19
W20	17 54 12	28°53'46	6 <b>Ⅱ</b> 43	13°39	3°41	25°28	18°27	15°40	28°39	3° 6	6°25	3°10	1°41	11°26	9°18	W20
T 21	17 58 9	29°51'01	19°29	15°32	4°54	25°22	18°23	15°36	28°42	3° 6	6°24	3° 3	1°38	11°32	9°21	T 21
F 22	18 2 6	09548'15	2932	17°23	6° 8	25°14	18°19	15°32	28°46	3° 6	6°23	2°55	1°35	11°39	9°24	F 22
S 23	18 6 2	1°45'29	15°51	19°12	7°22	25° 7	18°15	15°27	28°49	3° 6	6°22	2°45	1°32	11°46	9°27	S 23
S 24	18 9 59	2°42'43	29°26	20°59	8°36	24°58	18°11	15°23	28°53	3° 7	6°20	2°35	1°29	11°52	9°29	S 24
M25	18 13 55	3°39'56	13 <b>Ω</b> 12	22°43	9°49	24°49	18° 8	15°19	28°57	3° 7	6°19	2°26	1°25	11°59	9°32	M25
T 26	18 17 52	4°37'09	27° 8	24°26	11° 3	24°39	18° 4	15°15	29° 0	3° 8	6°18	2°19	1°22	12° 6	9°35	T 26
W27	18 21 48	5°34'21	11 Mp 10	26° 6	12°17	24°28	18° 1	15°11	29° 4	3° 8	6°17	2°15	1°19	12°12	9°37	W27
T 28	18 25 45	6°31'33	25°16	27°43	13°30	24°17	17°58	15° 7	29° 7	3° 8	6°16	2°12	1°16	12°19	9°40	T 28
F 29	18 29 41	7°28'44	9 <b>≏</b> 24	29°19	14°44	24° 5	17°55	15° 3	29°11	3° 9	6°15	2°D12	1°13	12°25	9°42	F 29
S 30	18 33 38	8925'56	23 <u>~</u> 33	$0\Omega53$	159558	23 <b>る</b> 53	17 <b>M</b> 52	14 <b>×</b> 759	29∏15	3 <b>₾</b> 9	6≈14	2812	1810	12 <b>Y</b> 32	9 <b>8</b> 45	S 30

Day	0	J	)	ζ	5	ς	2	C	3	2	4	Ť	ì	)	ţ(	4	ī	Е		n	Ω	Ç	Ł	5
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1 S 2	22n 5 22 13	3n22 3 s21	-	20n41 21 15		21n54 22 7		24 s 8 24 10		16 s 4 5 1 6 4 3		21 s14 21 14		23n39 23 39				23 s59 23 59		12n51 12 51	12n25 12 24		13n19 13 20	1 s 2 1 2
S 3 M 4 T 5 W 6		9 58 16 5 21 16 25 8	0 s43 1 58	21 47 22 18 22 46 23 13			0 0 0n 2					21 13	1 36 1 36	23 39 23 39 23 39 23 39	0 12 0 12	0 8 0 8	1 30 1 30 1 30 1 30	24 0	5 33 5 33	12 52 12 51	12 23 12 22 12 21 12 20	1 59	13 21 13 22 13 23 13 24	1 2 1 2 1 2 1 2
T 7 F 8 S 9	22 53 22 58	27 22 27 51 26 37	4 40 5 2	23 37 23 58 24 17	1 8	23 10 23 18	0 9 0 12	24 34	3 37	16 34 16 33	1 6	21 12 21 11	1 36 1 36	23 39 23 39 23 39	0 12 0 12	0 8 0 8	1 29 1 29 1 29	24 1 24 2	5 33 5 34	12 46 12 43	12 19 12 18 12 17	2 13 2 16	13 25 13 26 13 27	1 2 1 2 1 3
S 10 M11 T 12 W13 T 14 F 15 S 16	23 7 23 11	0n23	4 59 4 35 3 59 3 14 2 20	25 9	1 23 1 30 1 36 1 41 1 46	23 38 23 44 23 48	0 16 0 19 0 21		3 46 3 51 3 55 4 0 4 4	16 28 16 26	1 5 1 5 1 5 1 4 1 4	21 10 21 10 21 9	1 36 1 36 1 36 1 35 1 35	23 39 23 39 23 39 23 39 23 39 23 39 23 40	0 12 0 12 0 12 0 12 0 12 0 12	0 8 0 8 0 8 0 8 0 8	1 29 1 29 1 29 1 29 1 29 1 29 1 29	24 3 24 3 24 3 24 4 24 4	5 34 5 34 5 34 5 35 5 35	12 39 12 37 12 37 12 37	12 16 12 14 12 13 12 12 12 11 12 10 12 9	2 23 2 26 2 29 2 33 2 36	13 28 13 29 13 30 13 31 13 32 13 33	1 3 1 3 1 3 1 3 1 3 1 3
S 17 M18 T 19 W20 T 21 F 22 S 23	23 26 23 27 23 28 23 28 23 28	11 13 16 13 20 38 24 15 26 44 27 50 27 21	2 49 3 41	25 1 24 53 24 43 24 30 24 16	1 52 1 55 1 56 1 57 1 57 1 57 1 56	24 1 24 2 24 2 24 1	0 32 0 35 0 37 0 39 0 41	25 10 25 16 25 21 25 27 25 32 25 38 25 44	4 18 4 22 4 27 4 31 4 36	16 20 16 19		21 8 21 8 21 8 21 7 21 7	1 35 1 35 1 35 1 35 1 35		0 12 0 12 0 12 0 12 0 12 0 12	0 8 0 8 0 8 0 8 0 7	1 29 1 29 1 29 1 29 1 29 1 29 1 29	24 5 24 6 24 6 24 7 24 7	5 35 5 36 5 36 5 36 5 36	12 37 12 37 12 37 12 35 12 33 12 30 12 26	12 7 12 6 12 5 12 3 12 2	2 46 2 50 2 53 2 56 3 0	13 34 13 34 13 35 13 36 13 37 13 38 13 38	1 4 1 4 1 4 1 4 1 4 1 4 1 4
S 24 M25 T 26 W27 T 28 F 29 S 30	-	21 39 16 48 11 3 4 42 1 s55	4 59 4 36 3 57 3 4 1 58	23 42 23 23 23 2 22 40 22 16 21 52 21n26	1 51 1 48 1 44 1 40 1 35	23 50 23 45	0 47 0 49 0 51 0 53 0 55		4 49 4 53 4 58 5 2 5 6	16 15 16 14 16 14	1 1	21 6	1 34 1 34 1 34 1 34 1 34	23 40 23 40	0 12 0 12 0 12 0 12 0 12 0 12	0 7 0 7 0 7 0 6 0 6		24 9 24 9 24 9 24 10	5 37 5 37 5 37 5 37 5 37	12 18 12 16 12 15 12 15	12 0 11 59 11 58 11 57 11 56 11 55 11n54	3 10 3 13 3 16 3 20 3 23	13 39 13 40 13 41 13 41 13 42 13 43 13n43	1 4 1 5 1 5 1 5 1 5 1 5 1 5

Julian Day Number = 2371708.5, Delta T = 22.31 sec Ecliptic obliquity = 23°28'11, Nutation = -0°00'10, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 21°41'18, Lahiri =  $20^\circ48'19$ Greg. Calendar

JULY 1781 00:00 UT

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Day	Sid.t	0	D	ğ	·	♂	4	ħ	)∤(	¥	В	₽.	v	Ç	Ŗ	Day
S 1	18 37 35	9923'06	7 <b>M</b> .41	2 <b>N</b> 24	179512	23°R40	17°R50	14°R55	29 <b>Ⅱ</b> 18	3 <b>₾</b> 10	6°R12	2°R12	1 <b>8</b> 6	12 <b>Y</b> 39	9 <b>8</b> 47	S 1
M 2	18 41 31	10°20'17	21°48	3°53	18°25	23 <b>る</b> 26	17 <b>M</b> .48	14 <b>×</b> 752	29°22	3°10	6≈11	2811	1° 3	12°45	9°50	M 2
T 3	18 45 28	11°17'27	5 <b>₹</b> 51	5°19	19°39	23°12	17°45	14°48	29°25	3°11	6°10	2° 7	1° 0	12°52	9°52	T 3
W 4	18 49 24	12°14'38	19°47	6°44	20°53	22°58	17°43	14°44	29°29	3°12	6° 9	2° 1	0°57	12°59	9°54	W 4
T 5	18 53 21	13°11'48	3 <b>云</b> 33	8° 6	22° 7	22°43	17°42	14°41	29°32	3°12	6° 8	1°52	0°54	13° 5	9°57	T 5
F 6	18 57 17	14° 8'59	17° 6	9°25	23°20	22°28	17°40	14°37	29°36	3°13	6° 6	1°41	0°51	13°12	9°59	F 6
S 7	19 1 14	15° 6'09	0≈22	10°42	24°34	22°12	17°38	14°34	29°39	3°14	6° 5	1°30	0°47	13°19	10° 1	S 7
S 8	19 5 11	16° 3'20	13°20	11°57	25°48	21°56	17°37	14°30	29°43	3°15	6° 4	1°18	0°44	13°25	10° 3	S 8
M 9	19 9 7	17° 0'31	25°59	13° 9	27° 1	21°40	17°36	14°27	29°46	3°15	6° 2	1° 8	0°41	13°32	10° 5	M 9
T 10	19 13 4	17°57'43	8 <b>∺</b> 21	14°19	28°15	21°24	17°35	14°23	29°50	3°16	6° 1	1° 0	0°38	13°39	10° 7	T 10
W11	19 17 0	18°54'55	20°29	15°26	29°29	21° 7	17°34	14°20	29°53	3°17	6° 0	0°55	0°35	13°45	10° 9	W11
T 12	19 20 57	19°52'08	2 <b>Υ</b> 25	16°30	0 <b>Ω</b> 43	20°50	17°34	14°17	29°57	3°18	5°59	0°52	0°31	13°52	10°11	T 12
F 13	19 24 53	20°49'21	14°15	17°31	1°56	20°33	17°33	14°14	099 0	3°19	5°57	0°51	0°28	13°59	10°13	F 13
S 14	19 28 50	21°46'35	26° 4	18°30	3°10	20°16	17°33	14°11	0° 3	3°20	5°56	0°51	0°25	14° 5	10°15	S 14
S 15	19 32 46	22°43'49	7 <b>8</b> 57	19°25	4°24	19°59	17°D33	14° 8	0° 7	3°21	5°55	0°51	0°22	14°12	10°16	S 15
M16	19 36 43	23°41'05	20° 0	20°17	5°38	19°42	17°33	14° 5	0°10	3°22	5°53	0°50	0°19	14°19	10°18	M16
T 17	19 40 40	24°38'21	2 <b>I</b> I18	21° 6	6°51	19°25	17°34	14° 2	0°14	3°23	5°52	0°46	0°16	14°25	10°20	T 17
W18	19 44 36	25°35'38	14°54	21°51	8° 5	19° 9	17°34	13°59	0°17	3°24	5°51	0°41	0°12	14°32	10°21	W18
T 19	19 48 33	26°32'55	27°51	22°33	9°19	18°52	17°35	13°57	0°20	3°25	5°49	0°33	0° 9	14°39	10°23	T 19
F 20	19 52 29	27°30'14	112911	23°11	10°33	18°35	17°36	13°54	0°24	3°26	5°48	0°22	0° 6	14°45	10°25	F 20
S 21	19 56 26	28°27'33	24°52	23°45	11°46	18°19	17°37	13°52	0°27	3°27	5°46	0°11	0° 3	14°52	10°26	S 21
S 22	20 0 22	29°24'53	8 <b>N</b> 51	24°15	13° 0	18° 3	17°38	13°49	0°30	3°28	5°45	29 <b>Y</b> 59	29 <b>Y</b> 59	14°58	10°27	S 22
M23	20 4 19	$0\Omega 22'13$	23° 3	24°41	14°14	17°48	17°40	13°47	0°33	3°30	5°44	29°48	29°57	15° 5	10°29	M23
T 24	20 8 15	1°19'34	7 <b>m</b> 24	25° 3	15°28	17°33	17°41	13°45	0°37	3°31	5°42	29°39	29°53	15°12	10°30	T 24
W25	20 12 12	2°16'55	21°47	25°19	16°41	17°18	17°43	13°42	0°40	3°32	5°41	29°33	29°50	15°18	10°31	W25
T 26	20 16 9	3°14'17	6 <b>♀</b> 7	25°32	17°55	17° 4	17°45	13°40	0°43	3°33	5°40	29°30	29°47	15°25	10°32	T 26
F 27	20 20 5	4°11'40	20°23	25°39	19° 9	16°50	17°47	13°38	0°46	3°35	5°38	29°29	29°44	15°32	10°33	F 27
S 28	20 24 2	5° 9'02	4 <b>M</b> .31	25°R41	20°22	16°37	17°49	13°36	0°49	3°36	5°37	29°29	29°41	15°38	10°35	S 28
S 29	20 27 58	6° 6'26	18°30	25°38	21°36	16°25	17°52	13°34	0°52	3°37	5°35	29°28	29°37	15°45	10°36	S 29
M30	20 31 55	7° 3'50	2 <b>×</b> 121	25°30	22°50	16°13	17°55	13°33	0°55	3°39	5°34	29°26	29°34	15°52	10°36	M30
T 31	20 35 51	8 <b>N</b> 1'15	16 <b>∡</b> 4	25 <b>Ω</b> 16	24 <b>Q</b> 4	16 <b>ට</b> 1	17 <b>M</b> .57	13 <b>×</b> 31	0958	3 <b>≏</b> 40	5≈33	29 <b>Y</b> 22	29 <b>Y</b> 31	15 <b>Y</b> 58	10 <b>8</b> 37	T 31

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S 1 M 2	23n 8 23 4	14s33 0s29 19 53 1 42		n23 23n20 0n59 16 23 12 1 1				23n40 0n12 23 40 0 12			12n15 11n52 12 15 11 51	3n30 3 33	13n44 1s 5 13 45 1 6
T 3 W 4	22 54		19 36 1	1 22 54 1 4	26 45 5 21 26 51 5 25	16 11 1 0	21 3 1 33		0 5 1 28	24 13 5 38	12 14 11 50 12 11 11 49	3 37 3 40	13 46 1 6
T 5 F 6 S 7	22 49 22 43 22 37		18 38 0	44 22 33 1 7	<b>27 3</b> 5 32	16 11 0 59 16 10 0 59 16 10 0 59	21 3 1 33	23 40 0 12 23 40 0 12 23 40 0 12	0 4 1 28	24 14 5 38	12 5 11 47	3 43 3 47 3 50	13 47 1 6
S 8 M 9 T 10	22 23	17 10 4 34		26 22 10 1 10 16 21 57 1 12 5 21 44 1 13	27 21 5 42	16 10 0 59 16 10 0 58 16 10 0 58	21 2 1 32	23 40 0 12 23 40 0 12 23 40 0 12	0 3 1 28	24 15 5 39	11 57 11 45 11 53 11 44 11 50 11 42	3 53 3 57 4 0	
W11 T 12	22 8 22 0 21 51	6 47 3 17 1 15 2 25 4n17 1 27	16 9 0s 15 39 0	s 5 21 30 1 15 16 21 16 1 16 28 21 0 1 17	27 31 5 47 27 37 5 50	16 10 0 58 16 10 0 58	21 2 1 32 21 1 1 32	23 40 0 12 23 40 0 12 23 40 0 12	0 2 1 28 0 2 1 28	24 16 5 39 24 16 5 39	11 48 11 41 11 47 11 40 11 47 11 39	-	13 49 1 7 13 50 1 7
S 14 S 15	21 42 21 33			40 20 45 1 18 52 20 28 1 20		16 11 0 57 16 11 0 57		23 40 0 12 23 40 0 12			11 47 11 38 11 47 11 37	4 14 4 17	
M16 T 17 W18	21 13	19 22 1 40 23 14 2 38 26 6 3 31	13 17 1	16 19 54 1 22	27 56 5 59 28 0 6 1 28 4 6 2	16 11 0 56	21 1 1 31	23 40 0 12	0s 0 1 28	<b>24 19</b> 5 40	11 47 11 36 11 45 11 35 11 44 11 34	4 20 4 24 4 27	13 52 1 8
T 19 F 20	20 52 20 41	27 41 4 14	12 24 1		28 8 6 4	16 12 0 56 16 13 0 56	21 0 1 31		0 1 1 28	<b>24 19</b> 5 40	11 41 11 32 11 37 11 31	4 30 4 34	13 53 1 8
S 21 S 22	20 30 20 18	22 50 4 57		22 18 18 1 26	28 19 6 7	16 13 0 55 16 14 0 55	21 0 1 30	23 40 0 12 23 40 0 12	0 3 1 28	24 21 5 40	11 33 11 30 11 29 11 29	-	13 54 1 8
M23 T 24 W25	20 6 19 53 19 41	18 12 4 36 12 29 3 58 6 6 3 5	10 33 2	48 17 36 1 27	28 21 6 8 28 24 6 8 28 27 6 9		21 0 1 30	23 40 0 12	0 4 1 28	24 22 5 40	11 25 11 28 11 22 11 27 11 20 11 26	4 44 4 47 4 50	13 54 1 9
T 26 F 27 S 28	19 27 19 14 19 0	0s36 2 0	9 59 3 9 45 3		28 29 6 9 28 31 6 9	16 17 0 54 16 18 0 54	21 0 1 29 21 0 1 29		0 5 1 27 0 5 1 27	24 23 5 41 24 23 5 41	11 19 11 25 11 18 11 23 11 18 11 22	4 54 4 57	13 55 1 9
S 29 M30 T 31	18 46 18 32	18 56 1 39	9 23 3 9 15 4	50 15 44 1 29 1 15 20 1 29	28 34 6 9 28 35 6 9	16 19 0 53 16 20 0 53	20 59 1 29 20 59 1 29	23 40 0 12 23 40 0 12 23 40 0 12 23 n40 0 n12	0 6 1 27 0 7 1 27	24 24 5 41 24 24 5 41	11 18 11 21 11 17 11 20 11n16 11n19	5 4 5 7	13 55 1 10 13 55 1 10 13 55 1 10

Julian Day Number = 2371738.5, Delta T = 22.31 sec Ecliptic obliquity =  $23^{\circ}28'11$ , Nutation = -  $0^{\circ}00'09$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $21^{\circ}41'23$ , Lahiri =  $20^{\circ}48'23$ Greg. Calendar

AUGUST 1781 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	¥	Р	ß	ນ	Ç	ę,	Day
W 1	20 39 48	8 <b>N</b> 58'41	29 <b>х</b> 36	24°R58	25 <b>Ω</b> 17	15°R51	18 <b>M</b> 0	13°R29	199 1	3 <b>≏</b> 42	5°R31	29°R16	29 <b>Y</b> 28	16 <b>Y</b> 5	10838	W 1
T 2	20 43 44	9°56'07	12 <b>る</b> 58	24 <b>Q</b> 34	26°31	15 <b>云</b> 41	18° 4	13 <b>×</b> 28	1° 4	3°43	5≈30	29 <b>Υ</b> 6	29°25	16°12	10°39	T 2
F 3	20 47 41	10°53'34	26° 8	24° 6	27°45	15°32	18° 7	13°27	1° 7	3°45	5°28	28°55	29°22	16°18	10°40	F 3
S 4	20 51 38	11°51'03	9≈ 5	23°32	28°58	15°23	18°11	13°25	1°10	3°46	5°27	28°42	29°18	16°25	10°40	S 4
S 5	20 55 34	12°48'32	21°48	22°55	0 mp 12	15°15	18°14	13°24	1°13	3°48	5°26	28°30	29°15	16°32	10°41	S 5
M 6	20 59 31	13°46'02	4 <b>)</b> 16	22°14	1°26	15° 8	18°18	13°23	1°16	3°49	5°24	28°19	29°12	16°38	10°42	M 6
T 7	21 3 27	14°43'33	16°30	21°29	2°39	15° 2	18°22	13°22	1°19	3°51	5°23	28°11	29° 9	16°45	10°42	T 7
W 8	21 7 24	15°41'06	28°32	20°42	3°53	14°57	18°26	13°21	1°22	3°52	5°22	28° 5	29° 6	16°52	10°42	W 8
T 9	21 11 20	16°38'40	10 <b>Y</b> 26	19°53	5° 7	14°52	18°31	13°20	1°25	3°54	5°20	28° 1	29° 3	16°58	10°43	T 9
F 10	21 15 17	17°36'16	22°14	19° 4	6°20	14°48	18°35	13°19	1°27	3°56	5°19	28° 0	28°59	17° 5	10°43	F 10
S 11	21 19 13	18°33'53	4 <b>8</b> 2	18°14	7°34	14°45	18°40	13°19	1°30	3°57	5°18	27°D59	28°56	17°11	10°43	S 11
S 12	21 23 10	19°31'31	15°55	17°26	8°48	14°43	18°45	13°18	1°33	3°59	5°16	28°R 0	28°53	17°18	10°44	S 12
M13	21 27 7	20°29'11	27°57	16°39	10° 1	14°42	18°50	13°18	1°35	4° 1	5°15	28° 0	28°50	17°25	10°44	M13
T 14	21 31 3	21°26'53	10 <b>Ⅱ</b> 15	15°55	11°15	14°D41	18°55	13°17	1°38	4° 2	5°14	27°58	28°47	17°31	10°44	T 14
W15	21 35 0	22°24'36	22°53	15°15	12°29	14°41	19° 0	13°17	1°41	4° 4	5°12	27°54	28°43	17°38	10°R44	W15
T 16	21 38 56	23°22'21	5 <b>9</b> 55	14°40	13°42	14°42	19° 6	13°17	1°43	4° 6	5°11	27°48	28°40	17°45	10°44	T 16
F 17	21 42 53	24°20'08	19°23	14°11	14°56	14°44	19°11	13°D17	1°46	4° 8	5°10	27°40	28°37	17°51	10°44	F 17
S 18	21 46 49	25°17'56	3 <b>Ω</b> 17	13°47	16°10	14°47	19°17	13°17	1°48	4°10	5° 8	27°30	28°34	17°58	10°43	S 18
S 19	21 50 46	26°15'46	17°33	13°31	17°23	14°51	19°23	13°17	1°51	4°11	5° 7	27°21	28°31	18° 5	10°43	S 19
M20	21 54 42	27°13'37	2 m) 7	13°21	18°37	14°55	19°29	13°17	1°53	4°13	5° 6	27°12	28°28	18°11	10°43	M20
T 21	21 58 39	28°11'29	16°52	13°D19	19°50	15° 0	19°35	13°17	1°55	4°15	5° 5	27° 5	28°24	18°18	10°43	T 21
W22	22 2 36	29° 9'23	1 <b>≏</b> 39	13°25	21° 4	15° 6	19°42	13°18	1°58	4°17	5° 3	27° 0	28°21	18°25	10°42	W22
T 23	22 6 32	0 <b>m)</b> 7'18	16°21	13°39	22°18	15°13	19°48	13°18	2° 0	4°19	5° 2	26°57	28°18	18°31	10°42	T 23
F 24	22 10 29	1° 5'15	0 <b>M</b> .53	14° 1	23°31	15°21	19°55	13°19	2° 2	4°21	5° 1	26°D57	28°15	18°38	10°41	F 24
S 25	22 14 25	2° 3'13	15°11	14°31	24°45	15°29	20° 1	13°20	2° 4	4°23	5° 0	26°58	28°12	18°45	10°41	S 25
S 26	22 18 22	3° 1'12	29°14	15° 9	25°58	15°38	20° 8	13°20	2° 7	4°25	4°59	26°R58	28° 9	18°51	10°40	S 26
M27	22 22 18	3°59'12	13 <b>×7</b> 0	15°55	27°12	15°48	20°15	13°21	2° 9	4°27	4°57	26°58	28° 5	18°58	10°39	M27
T 28	22 26 15	4°57'14	26°30	16°48	28°25	15°59	20°23	13°22	2°11	4°29	4°56	26°56	28° 2	19° 4	10°39	T 28
W29	22 30 11	5°55'18	9 <b>ප</b> 46	17°48	29°39	16°10	20°30	13°23	2°13	4°31	4°55	26°52	27°59	19°11	10°38	W29
T 30	22 34 8	6°53'22	22°49	18°55	0 <b>ჲ</b> 52	16°23	20°37	13°25	2°15	4°33	4°54	26°45	27°56	19°18	10°37	T 30
F 31	22 38 5	7 <b>m</b> 51'29	5≈38	20 <b>N</b> 9	2 <b>º</b> 6	16 <b>ප</b> 36	20 <b>M</b> 45	13 <b>∡</b> 26	29917	4 <b>≏</b> 35	4≈53	26 <b>Y</b> 38	27 <b>Y</b> 53	19 <b>Y</b> 24	10836	F 31

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W 1 T 2			4 s22 4 49	9n 7 9 7	4s21 4 29	14n31 14 6		28 s36 28 37	6s 7			20s59 20 59		23n40 23 40		0s 8 1n2 0 9 1 2		s41 11n1				s10
F 3 S 4	17 31 17 15		5 1 4 56	9 10 9 15	4 36 4 42		1 29	28 37	6 6 6	16 25	0 52	20 59 20 59	1 28	23 40 23 40	0 13	0 9 1 2 0 10 1 2	7 24 26 5		6 11 16 2 11 14			10
S 5 M 6	16 59 16 43		4 37 4 5	9 22 9 33	4 47 4 50	_		28 37 28 36	6 3 6 2	16 27 16 29	0 52 0 51		1 27 1 27			0 11 1 2 0 11 1 2 1 2 1		41 10 5 41 10 5				. 11
T 7 W 8	16 26 16 9	2 52	3 21 2 30	-	4 51 4 51	11 28	1 28	28 34	5 59	16 30 16 31	0 51 0 51	21 0	1 27	23 40		0 12 1 2 0 13 1 2	7 24 28 5	41 10 5 41 10 4	8 11 10	5 37	13 56 1	11
T 9 F 10 S 11	15 52 15 35 15 17	8 12	0 31	10 18 10 38 10 58	4 48 4 44 4 38	10 32	1 27	28 33 28 32 28 30	5 55	16 33 16 34 16 36		21 0	1 26	23 40 23 40 23 40	0 13		7 24 29 5	41 10 4 41 10 4 42 10 4	6 11 8	5 44	13 56 1	11 11 12
S 12	14 59	18 7	1 34	11 20	4 30	9 36	1 25	28 29	5 52	16 37	0 50	21 0	1 26	23 40	0 13	0 15 1 2	7 24 29 5	42 10 4	7 11 5	5 51	13 55 1	. 12
M13 T 14 W15	14 41 14 22 14 4	25 24		11 44 12 7 12 31	4 20 4 9 3 56	9 8 8 39 8 10	1 24	28 27 28 25 28 22	5 49 5 47 5 45		0 50 0 50 0 49	21 1	1 26 1 26 1 25	23 40	0 13	0 16 1 2' 0 17 1 2' 0 17 1 2'	7 24 30 5	42 10 4 42 10 4 42 10 4	6 11 3		13 55 1	. 12 . 12 . 12
T 16 F 17	13 45 13 26	28 2 27 2	4 42 5 1	12 55 13 18	3 42 3 27	7 41 7 11	1 22 1 21	28 20 28 17	5 43 5 40	16 44 16 46	0 49 0 49	21 1 21 1	1 25 1 25	23 40 23 40	0 13 0 13	0 18 1 2° 0 19 1 2°	7 24 31 5 7 24 31 5	42 10 4 42 10 3	2 11 1 9 11 0	6 4 6 7	13 55 1 13 55 1	12
S 18 S 19	13 6 12 47		5 3 4 46	13 40 14 1	3 10 2 53	6 42 6 12		<ul><li>28 15</li><li>28 12</li></ul>		16 47 16 49	0 49 0 48		1 25 1 24	<ul><li>23 40</li><li>23 40</li></ul>		0 20 1 2		42 10 3 42 10 3				13
M20 T 21	12 27 12 7	8 13	3 17	14 21 14 39	2 36 2 18	5 42 5 12	1 16	28 6	5 30	16 51 16 53		21 2	1 24	23 40	0 13	0 21 1 2' 0 22 1 2'	7 24 33 5	42 10 2 42 10 2	7 10 55	6 21	13 54 1	13
W22 T 23 F 24	11 47 11 27 11 6	5 s34	0 57	14 54 15 8 15 19	1 59 1 41 1 23	4 41 4 11 3 40	-	27 59	5 28 5 25 5 22		0 48 0 48 0 47	21 3	1 24 1 24 1 23	23 40	0 13	0 23 1 2' 0 23 1 2' 0 24 1 2'	7 24 33 5	42 10 2 42 10 2 42 10 2	4 10 53	6 27	13 53 1	. 13 . 14 . 14
S 25	10 45	17 57	1 36	15 27	1 6	3 10	1 10	27 51	5 19	17 1	0 47	21 3	1 23	23 40	0 13	0 25 1 2	7 24 34 5	42 10 2	4 10 51	6 34	13 53 1	14
S 26 M27 T 28	10 4	26 3	3 42	15 32 15 35 15 34	0 48	2 39 2 8 1 37	1 7	<ul><li>27 47</li><li>27 43</li><li>27 39</li></ul>	5 17 5 14 5 11	17 5	0 47	21 4	1 23 1 23 1 23		0 13	0 27 1 2	7 24 34 5	42 10 24 42 10 24 42 10 24	4 10 48	6 41	13 52 1	14
W29 T 30	-	27 59	4 54	15 34 15 30 15 23	0 16 0 1 0n14	1 3/ 1 6 0 36	1 3		5 8			21 4		23 40	0 13		7 24 35 5	42 10 2 42 10 2 42 10 2	2 10 46	6 47	13 51 1	14
F 31			-	15n13	0n27	0n 4		27 s26		17s14		21s 5		23n40				s42 10n1				s15

Julian Day Number = 2371769.5, Delta T = 22.31 sec Ecliptic obliquity = 23°28'11, Nutation = -0°00'07, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 21°41'27, Lahiri = 20°48'27Greg. Calendar

SEPTEMBER 1781 00:00 UT

JLI	LIIDEN	1/01													00.0	0 0 1
Day	Sid.t	0	)	ğ	φ	ď	4	ħ	)f(	卉	Р	S.	v	Ç	ķ	Day
S 1	22 42 1	8 <b>m</b> 49'36	18 <b>≈</b> 15	21 <b>\O</b> 29	3 <b>ჲ</b> 19	16 <b>පි</b> 49	20 <b>M</b> 53	13 <b>×</b> 27	29619	4 <b>₽</b> 37	4°R52	26°R29	27 <b>Y</b> 49	19 <b>Y</b> 31	10°R35	S 1
S 2	22 45 58	9°47'46	0 <b>)</b> €40	22°54	4°33	17° 4	21° 1	13°29	2°20	4°39	4≈51	26 <b>Y</b> 20	27°46	19°38	10834	S 2
M 3	22 49 54	10°45'57	12°55	24°23	5°46	17°18	21° 9	13°30	2°22	4°41	4°50	26°13	27°43	19°44	10°33	M 3
T 4	22 53 51	11°44'09	24°59	25°58	7° 0	17°34	21°17	13°32	2°24	4°43	4°48	26° 7	27°40	19°51	10°32	T 4
W 5	22 57 47	12°42'24	6 <b>Ƴ</b> 55	27°36	8°13	17°50	21°25	13°34	2°26	4°45	4°47	26° 3	27°37	19°58	10°31	W 5
T 6	23 1 44	13°40'40	18°45	29°18	9°26	18° 7	21°33	13°36	2°27	4°47	4°46	26° 1	27°34	20° 4	10°29	T 6
F 7	23 5 40	14°38'59	0 <b>8</b> 32	1 Mp 2	10°40	18°25	21°42	13°38	2°29	4°49	4°45	26°D 1	27°30	20°11	10°28	F 7
S 8	23 9 37	15°37'19	12°19	2°49	11°53	18°43	21°50	13°40	2°31	4°51	4°44	26° 2	27°27	20°18	10°27	S 8
S 9	23 13 34	16°35'42	24°11	4°38	13° 6	19° 2	21°59	13°42	2°32	4°54	4°43	26° 3	27°24	20°24	10°25	S 9
M10	23 17 30	17°34'07	6 <b>I</b> I3	6°28	14°20	19°21	22° 8	13°44	2°34	4°56	4°43	26° 5	27°21	20°31	10°24	M10
T 11	23 21 27	18°32'34	18°29	8°19	15°33	19°41	22°17	13°46	2°35	4°58	4°42	26°R 6	27°18	20°37	10°22	T 11
W12	23 25 23	19°31'03	199 4	10°12	16°46	20° 2	22°26	13°49	2°37	5° 0	4°41	26° 5	27°14	20°44	10°21	W12
T 13	23 29 20	20°29'34	14° 4	12° 4	18° 0	20°23	22°35	13°51	2°38	5° 2	4°40	26° 3	27°11	20°51	10°19	T 13
F 14	23 33 16	21°28'07	27°30	13°57	19°13	20°44	22°44	13°54	2°39	5° 4	4°39	25°59	27° 8	20°57	10°17	F 14
S 15	23 37 13	22°26'43	11 <b>\O</b> 24	15°50	20°26	21° 6	22°54	13°56	2°40	5° 7	4°38	25°54	27° 5	21° 4	10°16	S 15
S 16	23 41 9	23°25'21	25°45	17°42	21°40	21°29	23° 3	13°59	2°42	5° 9	4°37	25°49	27° 2	21°11	10°14	S 16
M17	23 45 6	24°24'01	10 <b>m</b> )28	19°35	22°53	21°52	23°13	14° 2	2°43	5°11	4°37	25°45	26°59	21°17	10°12	M17
T 18	23 49 3	25°22'42	25°27	21°26	24° 6	22°16	23°23	14° 5	2°44	5°13	4°36	25°41	26°55	21°24	10°10	T 18
W19	23 52 59	26°21'26	10 <b>≏</b> 32	23°17	25°19	22°40	23°32	14° 8	2°45	5°15	4°35	25°39	26°52	21°31	10° 8	W19
T 20	23 56 56	27°20'12	25°36	25° 8	26°33	23° 5	23°42	14°11	2°46	5°18	4°34	25°D38	26°49	21°37	10° 6	T 20
F 21	0 0 52	28°18'59	10 <b>M</b> 28	26°57	27°46	23°30	23°52	14°14	2°47	5°20	4°34	25°39	26°46	21°44	10° 4	F 21
S 22	0 4 49	29°17'49	25° 4	28°46	28°59	23°55	24° 3	14°18	2°48	5°22	4°33	25°40	26°43	21°51	10° 2	S 22
S 23	0 8 45	0 <b>ჲ</b> 16'40	9 <b>∡</b> 18	0 <b>ჲ</b> 34	0 <b>M</b> .12	24°21	24°13	14°21	2°49	5°24	4°32	25°42	26°40	21°57	10° 0	S 23
M24	0 12 42	1°15'33	23°11	2°22	1°25	24°48	24°23	14°24	2°49	5°27	4°32	25°43	26°36	22° 4	9°58	M24
T 25	0 16 38	2°14'28	6 <b>පි</b> 40	4° 8	2°38	25°15	24°33	14°28	2°50	5°29	4°31	25°R43	26°33	22°11	9°56	T 25
W26	0 20 35	3°13'24	19°50	5°53	3°51	25°42	24°44	14°32	2°51	5°31	4°30	25°42	26°30	22°17	9°53	W26
T 27	0 24 32	4°12'22	2≈40	7°38	5° 4	26°10	24°55	14°35	2°51	5°33	4°30	25°40	26°27	22°24	9°51	T 27
F 28	0 28 28	5°11'22	15°15	9°22	6°17	26°38	25° 5	14°39	2°52	5°35	4°29	25°37	26°24	22°30	9°49	F 28
S 29	0 32 25	6°10'24	27°37	11° 4	7°30	27° 7	25°16	14°43	2°52	5°38	4°29	25°34	26°20	22°37	9°46	S 29
S 30	0 36 21	7 <b>₾</b> 9'27	9 <b>)</b> (48	12 <b>≏</b> 46	8 <b>M</b> .43	27 <b>궁</b> 36	25 <b>M</b> 27	14 <b>×7</b> 47	2953	5 <b>≙</b> 40	4≈28	25 <b>Y</b> 31	26 <b>Y</b> 17	22 <b>Y</b> 44	9 <b>8</b> 44	S 30

Day	0	D	ğ	ç	2	<b>♂</b>	2	ł	ŧ	<u> </u>	)	ţ(	并		Р		ß	Ω	Ç	ď	5
	decl	decl lat	decl	at decl	lat decl	lat	decl	lat	decl	lat	decl	lat	decl la	at	decl	lat	decl	decl	decl	decl	lat
S 1	8n16	19 s 54 4 s 4	46 14n59	0n40 0s27	0n58 27 s21	4 s 5 9	17s16	0n46	21 s 5	1n22	23n40	0n13	0s31	1n27	24s36	5 s42	10n14	10n43	6n57	13n50	1 s15
S 2	7 54	15 13 4	14 14 42	0 51 0 58	0 55 27 16	4 56	17 18	0 45	21 6	1 22	23 40	0 13	0 32	1 27	24 36	5 42	10 11	10 42	7 1	13 49	1 15
M 3	7 32	9 59 3 3	32 14 22	1 1 1 29	0 53 27 11	4 53	17 20	0 45	21 6	1 21	23 40	0 13	0 32	1 27	24 36	5 42	10 8	10 41	7 4	13 49	1 15
T 4	7 10	4 27 2 4	40 13 59	1 11 2 0	0 51 27 6		17 23	0 45		1 21	23 40	0 13	0 33	1 26	24 37	5 42	10 6	10 39		13 48	1 15
W 5	6 48	1n11 1 4		1 19 2 31	0 49 27 1	4 47		0 45	-	1 21	23 40			-	24 37	5 42	-	10 38			1 16
T 6	6 26	6 45 0 3		1 26 3 2	0 47 26 56			0 45		1 21	23 40		0 35	-	24 37	5 42	-	10 37		13 47	1 16
F 7	6 3		25 12 33	1 32 3 33	0 44 26 50			0 44	-	1 21	23 40			-	24 37	5 42	-	10 36		13 47	1 16
S 8	5 41	16 57 1 2	28 12 0	1 37 4 4	0 42 26 45	4 38	17 32	0 44	21 8	1 20	23 40	0 13	0 37	1 26	24 37	5 42	10 4	10 35	7 21	13 46	1 16
S 9	5 18	21 13 2 2	27 11 24	1 42 4 34	0 40 26 39	4 35	17 35	0 44	21 9	1 20	23 40	0 13	0 37	1 26	24 38	5 42	10 5	10 34	7 24	13 46	1 16
M10	4 55	24 41 3 2	22 10 46	1 45 5 5	0 37 26 33	4 32	17 37	0 44	21 9	1 20	23 40	0 13	0 38	1 26	24 38	5 42	10 5	10 33	7 27	13 45	1 16
T 11	-	27 5 4	8 10 7	1 47 5 36	0 35 26 27			0 44	-	1 20		0 13	0 39	1 26	24 38	5 42		10 31		13 44	1 17
W12	-		43 9 26	1 49 6 6	0 32 26 21	4 26		0 43		1 20		0 13			24 38	5 41				13 44	1 17
T 13	-	27 47 5	5 8 44	1 49 6 37	0 30 26 15				21 11	1 19					24 38	5 41		10 29		13 43	1 17
F 14	-		12 8 0	1 49 7 7	0 27 26 9		17 47		21 11	1 19				-	24 39	5 41		10 28		13 42	1 17
S 15	3 0	22 12 5	1 7 16	1 48 7 37	0 24 26 2	4 17	17 50	0 43	21 12	1 19	23 40	0 13	0 43	1 26	24 39	5 41	10 1	10 27	7 44	13 42	1 17
S 16	2 37	17 12 4 3	31 6 30	1 47 8 7	0 22 25 56	4 14	17 52	0 43	21 12	1 19	23 40	0 13	0 44	1 26	24 39	5 41	9 59	10 26	7 47	13 41	1 17
M17	2 14	11 5 3 4	43 5 45	1 45 8 37	0 19 25 49	4 11	17 55	0 43	21 13	1 19	23 40	0 13	0 44	1 26	24 39	5 41	9 58	10 25	7 50	13 40	1 17
T 18	1 50	4 14 2 3	38 4 58	1 43 9 7	0 16 25 42	4 8	17 57	0 42	21 13	1 18	23 40	0 13	0 45	1 26	24 39	5 41	9 56	10 23	7 54	13 40	1 18
W19	1 27	2 s 5 5 1 2	22 4 11	1 40 9 36	0 13 25 35	4 5	18 0	0 42	21 14	1 18	23 40	0 13	0 46	1 26	24 39	5 41	9 56	10 22	7 57	13 39	1 18
T 20	1 4	9 54 0	0 3 24	1 36 10 5	0 11 25 28	4 2	18 3	0 42		1 18		0 13	0 47	1 26	24 39	5 41	9 55	10 21	8 0	13 38	1 18
F 21	-	16 15 1 s2		1 32 10 34	0 8 25 21		18 5		21 15	1 18				-	24 40	5 41		10 20		13 37	1 18
S 22	0 17	21 34 2 3	35 1 50	1 28 11 3	0 5 25 13	3 56	18 8	0 42	21 15	1 18	23 40	0 13	0 49	1 26	24 40	5 41	9 56	10 19	8 7	13 36	1 18
S 23	0s 7	25 28 3 3	38 1 3	1 23 11 32	0 2 25 6	3 53	18 11	0 41	21 16	1 18	23 40	0 13	0 50	1 26	24 40	5 41	9 57	10 18	8 10	13 36	1 18
M24	0 30	27 43 4 2	26 0 15	1 18 12 0	0s 1 24 58	3 50		0 41		1 17		0 14	0 51	1 26	24 40	5 41	9 57	10 16	8 14	13 35	1 18
T 25	0 54	28 16 4 3	58 0s32	1 13 12 28	0 4 24 50	3 47	18 16	0 41	21 17	1 17	23 40	0 14	0 51	1 26	24 40	5 41	9 57	10 15	8 17	13 34	1 19
W26	1 17	27 10 5	13 1 19	1 7 12 56	0 7 24 42	3 44	18 19	0 41	21 18	1 17	23 40	0 14	0 52	1 26	24 40	5 41	9 57	10 14	8 20	13 33	1 19
T 27	1 40	24 39 5	13 2 5	1 2 13 23	0 10 24 34	3 41	18 22	0 41	21 18	1 17	23 40	0 14	0 53	1 26	24 40	5 41	9 56	10 13	8 23	13 32	1 19
F 28	2 4	21 0 4 5	57 2 52	0 56 13 50	0 13 24 26		18 24		21 19	1 17			0 54	1 26	24 40	5 41	9 55	10 12	8 27	13 31	1 19
S 29	2 27	16 30 4 2	27 3 38	0 50 14 17	0 16 24 17	3 36	18 27	0 40	21 20	1 16	23 40	0 14	0 55	1 26	24 40	5 41	9 54	10 11	8 30	13 31	1 19
S 30	2 s51	11 s24 3 s4	46 4s23	0n43 14s44	0s19 24s 9	3 s33	18 s 3 0	0n40	21 s20	1n16	23n40	0n14	0s56	1n26	24 s40	5 s40	9n53	10n10	8n33	13n30	1 s19

Julian Day Number = 2371800.5, Delta T = 22.31 sec Ecliptic obliquity =  $23^{\circ}28'12$ , Nutation = -  $0^{\circ}00'07$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $21^{\circ}41'31$ , Lahiri =  $20^{\circ}48'32$ Greg. Calendar

OCTOBER 1781 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	24	ħ	)∤(	¥	Р	R	ດ	Ç	ķ	Day
M 1	0 40 18	8 <b>₽</b> 8'33	21 <b>)</b> 50	14 <b>≏</b> 27	9M.56	28 <b>ප</b> 5	25MJ38	14 <b>×</b> 751	2953	5 <b>₽</b> 42	4°R28	25°R28	26 <b>Υ</b> 14	22 <b>Y</b> 50	9°R42	M 1
T 2	0 40 18	9° 7'40	3 <b>Υ</b> 45	16° 8	11° 9	28°34	25°49	14°55	2°54	5°44	4 K28 4 <b>≈</b> 27	25 K28	26°11	22°57	9839	T 2
W 3	0 48 11	10° 6'50	15°35	17°47	12°22	29° 4	26° 0	14°59	2°54	5°47	4°27	25°25	26° 8	23° 4	9°37	W 3
T 4	0 52 7	11° 6'01	27°23	19°26	13°35	29°35	26°11	15° 4	2°54	5°49	4°27	25°D25	26° 5	23°10	9°34	T 4
F 5	0 56 4	12° 5'15	9810	21° 4	14°48	0≈ 5	26°22	15° 8	2°55	5°51	4°26	25°26	26° 1	23°17	9°31	F 5
S 6	1 0 0	13° 4'31	21° 0	22°41	16° 1	0°36	26°34	15°12	2°55	5°53	4°26	25°27	25°58	23°24	9°29	S 6
S 7	1 3 57	14° 3'49	2Д55	24°17	17°14	1° 7	26°45	15°17	2°55	5°55	4°26	25°28	25°55	23°30	9°26	S 7
M 8	1 7 54	15° 3'09	14°59	25°53	18°27	1°39	26°56	15°21	2°R55	5°58	4°25	25°29	25°52	23°37	9°23	M 8
T 9	1 11 50	16° 2'32	27°16	27°28	19°39	2°11	27° 8	15°26	2°55	6° 0	4°25	25°30	25°49	23°44	9°21	T 9
W10	1 15 47	17° 1'57	9 <b>9</b> 549	29° 2	20°52	2°43	27°20	15°31	2°55	6° 2	4°25	25°30	25°46	23°50	9°18	W10
T 11	1 19 43	18° 1'25	22°44	0 <b>M</b> .35	22° 5	3°15	27°31	15°35	2°55	6° 4	4°25	25°R30	25°42	23°57	9°15	T 11
F 12	1 23 40	19° 0'55	6 <b>Ω</b> 2	2° 8	23°18	3°48	27°43	15°40	2°54	6° 7	4°25	25°30	25°39	24° 3	9°13	F 12
S 13	1 27 36	20° 0'27	19°47	3°40	24°30	4°21	27°55	15°45	2°54	6° 9	4°24	25°29	25°36	24°10	9°10	S 13
S 14	1 31 33	21° 0'01	3 <b>m</b> 59	5°12	25°43	4°54	28° 7	15°50	2°54	6°11	4°24	25°29	25°33	24°17	9° 7	S 14
M15	1 35 29	21°59'38	18°36	6°43	26°56	5°28	28°19	15°55	2°54	6°13	4°24	25°28	25°30	24°23	9° 4	M15
T 16	1 39 26	22°59'16	3 <b>₾</b> 32	8°13	28° 8	6° 1	28°31	16° 0	2°53	6°15	4°24	25°28	25°26	24°30	9° 1	T 16
W17	1 43 23	23°58'57	18°42	9°43	29°21	6°35	28°43	16° 5	2°53	6°17	4°D24	25°28	25°23	24°37	8°58	W17
T 18	1 47 19	24°58'40	3 <b>M</b> .55	11°12	0 <b>∡</b> 33	7° 9	28°55	16°11	2°52	6°20	4°24	25°28	25°20	24°43	8°55	T 18
F 19	1 51 16	25°58'25	19° 2	12°40	1°46	7°44	29° 7	16°16	2°52	6°22	4°24	25°28	25°17	24°50	8°52	F 19
S 20	1 55 12	26°58'12	3 <b>∡</b> 754	14° 8	2°58	8°19	29°20	16°21	2°51	6°24	4°24	25°28	25°14	24°57	8°49	S 20
S 21	1 59 9	27°58'01	18°24	15°35	4°11	8°54	29°32	16°27	2°51	6°26	4°24	25°28	25°11	25° 3	8°46	S 21
M22	2 3 5	28°57'51	2 <b>る</b> 29	17° 1	5°23	9°29	29°44	16°32	2°50	6°28	4°25	25°27	25° 7	25°10	8°43	M22
T 23	2 7 2	29°57'44	16° 7	18°27	6°36	10° 4	29°57	16°38	2°49	6°30	4°25	25°27	25° 4	25°17	8°40	T 23
W24	2 10 58	0 <b>M</b> 57'37	29°19	19°51	7°48	10°40	0 <b>才</b> 9	16°43	2°48	6°32	4°25	25°D27	25° 1	25°23	8°37	W24
T 25	2 14 55	1°57'33	12≈ 7	21°15	9° 1	11°15	0°22	16°49	2°48	6°34	4°25	25°27	24°58	25°30	8°34	T 25
F 26	2 18 52	2°57'30	24°36	22°39	10°13	11°51	0°35	16°55	2°47	6°36	4°25	25°27	24°55	25°37	8°31	F 26
S 27	2 22 48	3°57'29	6 <b>¥</b> 50	24° 1	11°25	12°27	0°47	17° 0	2°46	6°38	4°26	25°28	24°51	25°43	8°28	S 27
S 28	2 26 45	4°57'29	18°51	25°22	12°37	13° 4	1° 0	17° 6	2°45	6°40	4°26	25°29	24°48	25°50	8°25	S 28
M29	2 30 41	5°57'31	0 <b>Υ</b> 45	26°43	13°50	13°40	1°13	17°12	2°44	6°42	4°26	25°30	24°45	25°56	8°22	M29
T 30	2 34 38	6°57'35	12°34	28° 2	15° 2	14°17	1°25	17°18	2°43	6°44	4°26	25°31	24°42	26° 3	8°19	T 30
W31	2 38 34	7 <b>M</b> 57'40	24 <b>Y</b> 22	29M20	16 <b>×</b> 14	14≈54	1 <b>₹</b> 38	17 <b>₹</b> 24	29541	6 <b>₽</b> 46	4≈27	25°R31	24 <b>Y</b> 39	26 <b>Y</b> 10	8 <b>8</b> 16	W31

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M 1	3 s14			5s 8	0n37			24s 0		18 s32		21 s21		23n40		0s57	-	24 s40	5 s40	9n52			13n29	1 s19
T 2	3 37			5 53	0 30			23 51		18 35		21 22		23 40		0 58	1 26		5 40	9 51		-	13 28	1 20
W 3 T 4	4 1 4 24		-	6 37 7 21	0 24		-	23 42		18 38		21 22		23 40		0 58 0 59	1 26 1 26		5 40	9 51 9 51		-	13 27	1 20 1 20
T 4 F 5				8 4	0 17 0 10			<ul><li>23 33</li><li>23 23</li></ul>	3 21	18 41 18 44		21 23 21 23	1 16 1 15			1 0	-		5 40 5 40	9 51			13 26 13 25	1 20
S 6	-	-		8 47	0 10			23 23		18 46		21 23		23 40		1 1	1 26		5 40	9 51	-		13 24	1 20
S 7	5 33	23 56 3	3 13	9 29	0s 4	17 39	0 41	23 4	3 13	18 49	0 39	21 25	1 15	23 40	0 14	1 2	1 27	24 40	5 40	9 52	10 1	8 56	13 23	1 20
M 8	5 56	26 38 4	1 2 1	10 10	0 11	18 2	0 44	22 55	3 10	18 52	0 39	21 25	1 15	23 40	0 14	1 3	1 27	24 40	5 40	9 52	10 0	9 0	13 22	1 20
T 9	6 19	28 7 4	4 40 1	10 51	0 17			22 45	3 8			21 26		23 40		1 4	1 27		5 40	9 52	9 59	9 3	13 21	1 20
W10	6 42			11 31	0 24			22 35		18 57		21 27		23 40		1 5	1 27		5 40	9 52	9 58	9 6		1 21
T 11				12 11	0 31			22 25	3 2			21 27		23 40		1 5	1 27	24 40	5 40	9 52	9 57	9 9		1 21
F 12			5 12 1		0 38			22 14	3 0		0 39	-	1 14			1 6	1 27	24 40	5 40	9 52	9 56		13 18	1 21
S 13			1 50 1			19 52	0 59		2 57			21 29		23 40		1 7	1 27		5 40	9 52	9 55		13 17	1 21
S 14			9 1	-		20 13		21 53				21 29		23 40		1 8	1 27		5 39	9 52	9 53		13 16	1 21
M15	8 35			14 42	0 59		-	21 42	2 52		0 38					1 9	1 27	24 40	5 39	9 52	9 52		13 15	1 21
T 16	8 57	-		15 18	1 5			21 31	2 49		0 38					1 10	1 27	24 40	5 39	9 52	9 51		13 14	1 21
W17 T 18	9 19			15 53 16 27	1 12 1 19			21 20	2 47			21 31	1 13			1 10	1 27	24 40	5 39	9 52 9 52	9 50		13 13	1 21
F 19	9 41 10 3			10 27	1 19		1 14	21 9 20 58	2 44 2 42	19 20 19 23		21 32 21 33	1 13 1 13			1 11 1 12	1 27 1 27	24 40 24 40	5 39 5 39	9 52 9 52	9 49 9 48		13 12 13 11	1 22 1 22
S 20	-		3 18 1	-	1 31			20 46		19 25		21 33		23 40		1 13		24 40	5 39	9 52	9 46		13 10	1 22
S 21	-		14 1		-	22 22		20 35		19 28		21 34		23 40		1 14	1 27		5 39	9 52	9 45	9 42		1 22
M22			53 1	-		22 38		20 23		19 31		21 35	1 13			1 15	1 27	24 40	5 39	9 51	9 44		13 8	1 22
T 23	11 28			19 5	1 49			20 11		19 34		21 36		23 41	0 14	1 15	1 27	24 39	5 39	9 51	9 43	9 48		1 22
W24	11 49		5 17 1		1 55			19 59		19 36		21 36		23 41	0 14	1 16	1 27	24 39	5 39	9 51	9 42	9 52		1 22
T 25	12 10			20 2	2 0			19 46		19 39		21 37		23 41	0 14	1 17	1 27		5 39	9 51	9 41	9 55		1 22
F 26	12 31	17 42 4	1 38 2	20 29	2 6	23 36	1 36	19 34	2 24	19 42	0 37	21 38	1 12	23 41	0 14	1 18	1 27	24 39	5 38	9 51	9 39	9 58	13 4	1 22
S 27	12 51	12 43 3	3 59 2	20 54	2 11	23 49	1 39	19 22	2 22	19 45	0 37	21 38	1 12	23 41	0 14	1 19	1 27	24 39	5 38	9 52	9 38	10 1	13 3	1 22
S 28	13 11	7 20 3	3 10 2	21 19	2 15	24 1	1 41	19 9	2 20	19 47	0 36	21 39	1 12	23 41	0 14	1 19	1 27	24 39	5 38	9 52	9 37	10 5	13 2	1 23
M29	13 31	1 44 2	2 13 2	21 43	2 20	24 13	1 44	18 56	2 17	19 50	0 36	21 40	1 12	23 41	0 14	1 20	1 27	24 39	5 38	9 52	9 36	10 8	13 1	1 23
	13 51	3n53 1	11 2	22 5	2 24	24 23	1 46	18 43	2 15	19 53	0 36	21 40	1 12	23 41	0 14	1 21	1 27	24 38	5 38	9 53	9 35	10 11	12 59	1 23
W31	14 s11	9n21 0	)s 6 2	22 s26	2 s28	24 s34	1 s49	$18  \mathrm{s} 30$	2 s 1 3	19s56	0n36	21 s41	1n11	23n41	0n14	1 s22	1n27	24 s38	5 s 3 8	9n53	9n34	10n14	12n58	1 s23

Julian Day Number = 2371830.5, Delta T = 22.31 sec Ecliptic obliquity =  $23^{\circ}28'12$ , Nutation = -  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $21^{\circ}41'35$ , Lahiri =  $20^{\circ}48'36$ Greg. Calendar

NOVEMBER 1781 00:00 UT

Day	Sid.t	0	D	ğ	Q	ð	4	ħ	)∤(	¥	Р	u	Ω	ţ	ę,	Day
T 1	2 42 31	8 <b>M</b> 57'48	6 <b>8</b> 10	0 <b>∡</b> ³37	17 <b>∡</b> 726	15≈31	1 <b>~</b> 51	17 <b>×</b> 30	2°R40	6 <b>₽</b> 48	4≈27	25°R31	24 <b>Y</b> 36	26 <b>Y</b> 16	8°R13	T 1
F 2	2 46 27	9°57'57	18° 1	1°52	18°38	16° 8	2° 4	17°36	2 <b>9</b> 39	6°50	4°28	25 <b>Y</b> 30	24°32	26°23	8 <b>8</b> 10	F 2
S 3	2 50 24	10°58'08	29°58	3° 6	19°50	16°45	2°17	17°42	2°38	6°52	4°28	25°28	24°29	26°30	8° 7	S 3
S 4	2 54 21	11°58'21	12 <b>II</b> 2	4°18	21° 2	17°23	2°30	17°48	2°36	6°54	4°29	25°26	24°26	26°36	8° 4	S 4
M 5	2 58 17	12°58'36	24°14	5°28	22°14	18° 0	2°43	17°54	2°35	6°56	4°29	25°23	24°23	26°43	8° 1	M 5
T 6	3 2 14	13°58'53	6 <b>9</b> 38	6°36	23°25	18°38	2°56	18° 1	2°34	6°58	4°30	25°20	24°20	26°50	7°58	T 6
W 7	3 6 10	14°59'11	19°16	7°41	24°37	19°16	3° 9	18° 7	2°32	7° 0	4°30	25°18	24°17	26°56	7°55	W 7
T 8	3 10 7	15°59'32	2 <b>Ω</b> 11	8°44	25°49	19°54	3°22	18°13	2°31	7° 2	4°31	25°16	24°13	27° 3	7°52	T 8
F 9	3 14 3	16°59'55	15°24	9°43	27° 1	20°32	3°35	18°19	2°29	7° 3	4°31	25°D16	24°10	27°10	7°49	F 9
S 10	3 18 0	18° 0'20	28°58	10°39	28°12	21°10	3°49	18°26	2°27	7° 5	4°32	25°16	24° 7	27°16	7°46	S 10
S 11	3 21 56	19° 0'46	12 <b>m</b> 55	11°31	29°24	21°48	4° 2	18°32	2°26	7° 7	4°33	25°17	24° 4	27°23	7°43	S 11
M12	3 25 53	20° 1'15	27°15	12°18	0 <b>궁</b> 35	22°27	4°15	18°39	2°24	7° 9	4°33	25°19	24° 1	27°29	7°40	M12
T 13	3 29 50	21° 1'45	11 <b>≏</b> 55	13° 1	1°47	23° 6	4°28	18°45	2°22	7°11	4°34	25°20	23°57	27°36	7°37	T 13
W14	3 33 46	22° 2'17	26°51	13°37	2°58	23°44	4°42	18°52	2°21	7°12	4°35	25°R20	23°54	27°43	7°34	W14
T 15	3 37 43	23° 2'51	11 <b>M</b> 56	14° 8	4° 9	24°23	4°55	18°58	2°19	7°14	4°36	25°20	23°51	27°49	7°31	T 15
F 16	3 41 39	24° 3'27	27° 1	14°31	5°21	25° 2	5° 8	19° 5	2°17	7°16	4°37	25°17	23°48	27°56	7°28	F 16
S 17	3 45 36	25° 4'04	11 <b>才</b> 58	14°46	6°32	25°41	5°22	19°12	2°15	7°17	4°37	25°14	23°45	28° 3	7°25	S 17
S 18	3 49 32	26° 4'42	26°36	14°R53	7°43	26°20	5°35	19°18	2°13	7°19	4°38	25° 9	23°42	28° 9	7°22	S 18
M19	3 53 29	27° 5'22	10 <b>る</b> 52	14°51	8°54	27° 0	5°49	19°25	2°11	7°21	4°39	25° 4	23°38	28°16	7°20	M19
T 20	3 57 25	28° 6'03	24°39	14°38	10° 5	27°39	6° 2	19°32	2° 9	7°22	4°40	24°59	23°35	28°23	7°17	T 20
W21	4 1 22	29° 6'45	7≈59	14°16	11°16	28°18	6°15	19°39	2° 7	7°24	4°41	24°56	23°32	28°29	7°14	W21
T 22	4 5 19	0 <b>₮</b> 7'29	20°52	13°42	12°27	28°58	6°29	19°45	2° 5	7°25	4°42	24°54	23°29	28°36	7°11	T 22
F 23	4 9 15	1° 8'13	3 <b>∺</b> 22	12°57	13°38	29°38	6°42	19°52	2° 3	7°27	4°43	24°D54	23°26	28°43	7° 9	F 23
S 24	4 13 12	2° 8'58	15°34	12° 2	14°48	0 <b>∺</b> 17	6°56	19°59	2° 1	7°28	4°44	24°54	23°23	28°49	7° 6	S 24
S 25	4 17 8	3° 9'44	27°32	10°58	15°59	0°57	7° 9	20° 6	1°59	7°30	4°45	24°56	23°19	28°56	7° 3	S 25
M26	4 21 5	4°10'32	9 <b>Ƴ</b> 22	9°46	17° 9	1°37	7°23	20°13	1°57	7°31	4°46	24°58	23°16	29° 2	7° 1	M26
T 27	4 25 1	5°11'20	21° 9	8°28	18°20	2°17	7°36	20°20	1°55	7°32	4°47	24°R59	23°13	29° 9	6°58	T 27
W28	4 28 58	6°12'09	2 <b>8</b> 56	7° 6	19°30	2°57	7°50	20°27	1°52	7°34	4°48	24°59	23°10	29°16	6°55	W28
T 29	4 32 54	7°12'59	14°48	5°43	20°40	3°37	8° 3	20°34	1°50	7°35	4°49	24°56	23° 7	29°22	6°53	T 29
F 30	4 36 51	8 <b>~</b> 13'51	26 <b>8</b> 46	4 <b>₹</b> 22	21 <b>궁</b> 50	4 <b>)</b> 17	8 <b>.7</b> 17	20 <b>₮</b> 40	19548	7 <b>≏</b> 36	4≈51	24 <b>Y</b> 52	23 <b>Y</b> 3	29 <b>Y</b> 29	6 <b>8</b> 50	F 30

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T 1	14 s30	14n31		22 s46		24 s43		18 s17		19s58		21 s42	1n11	_	0n14	-	-	24s38 5s38		9n32			1 s23
F 2 S 3	14 49 15 8			23 5 23 22		24 52 25 0	1 54	18 4 17 50		20 1 20 4		21 43 21 43	1 11	23 41 23 41	0 14 0 14	-	1 27 1	24 38 5 38 24 38 5 38			10 21 10 24		1 23 1 23
S 4 M 5	15 27 15 45	26 3 27 51		23 38 23 53	2 39 2 41		1 58	17 37 17 23		-		21 44 21 45		23 41 23 41	0 14 0 14		1 27 1				10 27 10 31	12 54	1 23 1 23
T 6	-	28 17	4 59		2 41	-	2 0			20 9		21 45		23 41	0 14	-	1 27				10 31		1 23
W 7		27 15		24 18		25 26		16 55		20 14		21 46		23 41	0 14		1 27				10 37		1 23
T 8	16 39	24 47	5 13	24 28		25 30	2 6	16 41	1 55	20 17		21 47	1 10	23 41	0 14	1 27	1 27	24 37 5 37	9 47	9 24	10 40	12 50	1 24
F 9		20 57		24 37		25 34	2 8			20 19		21 47		23 41	0 14		1 27				10 44		1 24
S 10	17 13	15 57	4 23	24 43	2 41	25 37	2 10	16 12	1 51	20 22	0 35	21 48	1 10	23 41	0 14	1 29	1 27	24 36 5 37	9 47	9 22	10 47	12 48	1 24
S 11	17 30	10 0	3 33	24 49	2 39	25 39	2 11	15 58	1 48	20 25	0 35	21 49	1 10	23 41	0 15	1 29	1 27	24 36 5 37	9 48	-	10 50		1 24
M12	17 46	3 22		24 52		25 41		15 43		20 27		21 49		23 41	0 15		-	24 36 5 37			10 53		1 24
T 13 W14	18 2	3 s35 10 29		<ul><li>24 53</li><li>24 53</li></ul>	2 31	25 42 25 42		15 29 15 14		20 30 20 32		21 50 21 51		23 41 23 42	0 15 0 15			24 35 5 37 24 35 5 37			10 56 11 0		1 24 1 24
T 15		16 52		24 53		25 42		14 59		20 32		21 51		23 42		-	-	24 35 5 37 24 35 5 37			11 0		1 24
F 16		22 12		24 46		25 40		14 44		20 37		21 52		23 42				24 35 5 37		9 15	-	12 42	1 24
S 17	19 3	26 1		24 38		25 38		14 29		20 40		21 53		23 42			1 28				11 9		1 24
S 18	19 18	28 0	4 35	24 29	1 53	25 35	2 21	14 14	1 34	20 42	0 34	21 53	1 9	23 42	0 15	1 34	1 28	24 34 5 37	9 45	9 13	11 12	12 40	1 24
M19	19 32	-		24 17				13 58		20 45		21 54		23 42			-	24 34 5 37			11 16		1 24
T 20		-	5 13				2 23			20 47		21 54		23 42			-	24 34 5 36	_		11 19		1 24
W21 T 22	19 59 20 12	23 12 19 0		<ul><li>23 45</li><li>23 25</li></ul>		25 23 25 17		13 28 13 12		20 49 20 52		21 55 21 56		23 42 23 42			-	24 33 5 36 24 33 5 36			11 22 11 25		1 24 1 25
	20 12		4 5			25 10		12 56		20 52		21 56		23 42				24 33 5 36			11 28		1 25
S 24	20 37	8 45	3 19					12 40		20 56		21 57		23 42			1 28				11 32		1 25
S 25	20 49	3 11	2 24	22 7	0 0	24 56	2 26	12 24	1 21	20 59	0 34	21 58	1 9	23 42	0 15	1 38	1 28	24 32 5 36	9 40	9 4	11 35	12 33	1 25
M26	21 0	2n26	1 24			24 47		12 9				21 58	1 9	-				24 32 5 36			11 38		1 25
T 27	21 12	7 56	-	21 4	0 41			11 52		21 3		21 59		23 42			-	24 31 5 36	_	-	11 41	-	1 25
	21 22 21 33	-		20 31 19 58	1 1	24 28 24 17		11 36 11 20		21 6 21 8		21 59 22 0		23 42 23 42				24 31 5 36 24 31 5 36			11 44 11 47		1 25 1 25
	21 33 21 s42			19 58 19 s26		24 17 24s 6		11 20 11s 4		21 s 21 s10		22 0 22s 0		23 42 23n42			1 28 1 1n28					12 30 12n29	-
1 30	2.512	/	2	17320	11130	2.5 0	2320	1.5	.512	2.510	01133		.11 0	231112	01110	1010	20	2.000	, ,,,,,,	0.11.00			1 323

Julian Day Number = 2371861.5, Delta T = 22.31 sec Ecliptic obliquity = 23°28'12, Nutation = - 0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 21°41'39, Lahiri = 20°48'40Greg. Calendar

DECEMBER 1781 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ	)Å(	¥	Р	n	v	Ç	ķ	Day
S 1	4 40 48	9 <b>,7</b> 14'43	8Д53	3°R 6	23る 0	4 <b>∺</b> 57	8 <b>₹</b> 30	20 <b>х</b> 47	1°R45	7 <b>≏</b> 38	4≈52	24°R46	23 <b>°</b> 0	29 <b>Y</b> 36	6°R48	S 1
S 2	4 44 44	10°15'37	21°11	1 <b>~</b> 157	24°10	5°38	8°44	20°54	19543	7°39	4°53	24 <b>Y</b> 38	22°57	29°42	6 <b>8</b> 45	S 2
M 3	4 48 41	11°16'32	3939	0°57	25°19	6°18	8°57	21° 1	1°41	7°40	4°54	24°29	22°54	29°49	6°43	M 3
T 4	4 52 37	12°17'28	16°19	0° 7	26°29	6°58	9°11	21° 8	1°38	7°41	4°55	24°20	22°51	29°56	6°41	T 4
W 5	4 56 34	13°18'24	29°11	29M28	27°38	7°39	9°24	21°15	1°36	7°43	4°57	24°12	22°48	0 <b>8</b> 2	6°38	W 5
T 6	5 0 30	14°19'22	12 <b>Ω</b> 16	29° 0	28°48	8°19	9°38	21°23	1°34	7°44	4°58	24° 5	22°44	0° 9	6°36	T 6
F 7	5 4 27	15°20'22	25°34	28°44	29°57	9° 0	9°51	21°30	1°31	7°45	4°59	24° 1	22°41	0°16	6°34	F 7
S 8	5 8 24	16°21'22	9Mp 6	28°D38	1≈ 6	9°40	10° 5	21°37	1°29	7°46	5° 1	23°59	22°38	0°22	6°32	S 8
S 9	5 12 20	17°22'23	22°53	28°43	2°15	10°21	10°18	21°44	1°26	7°47	5° 2	23°D59	22°35	0°29	6°30	S 9
M10	5 16 17	18°23'26	6 <b>₽</b> 56	28°57	3°24	11° 2	10°32	21°51	1°24	7°48	5° 3	24° 0	22°32	0°36	6°28	M10
T 11	5 20 13	19°24'29	21°15	29°20	4°32	11°42	10°45	21°58	1°21	7°49	5° 5	24°R 1	22°29	0°42	6°25	T 11
W12	5 24 10	20°25'34	5 <b>M</b> .47	29°51	5°41	12°23	10°59	22° 5	1°19	7°50	5° 6	24° 0	22°25	0°49	6°23	W12
T 13	5 28 6	21°26'39	20°30	0 <b>∡</b> 129	6°49	13° 4	11°12	22°12	1°16	7°51	5°8	23°57	22°22	0°55	6°22	T 13
F 14	5 32 3	22°27'46	5 <b>₹</b> 16	1°13	7°57	13°45	11°26	22°19	1°14	7°52	5° 9	23°52	22°19	1° 2	6°20	F 14
S 15	5 35 59	23°28'53	19°59	2° 2	9° 5	14°26	11°39	22°26	1°11	7°53	5°10	23°44	22°16	1° 9	6°18	S 15
S 16	5 39 56	24°30'01	4 <b>궁</b> 31	2°56	10°13	15° 7	11°52	22°33	1°8	7°53	5°12	23°34	22°13	1°15	6°16	S 16
M17	5 43 53	25°31'09	18°44	3°55	11°21	15°48	12° 6	22°40	1° 6	7°54	5°13	23°23	22° 9	1°22	6°14	M17
T 18	5 47 49	26°32'18	2≈34	4°57	12°28	16°29	12°19	22°47	1° 3	7°55	5°15	23°13	22° 6	1°29	6°13	T 18
W19	5 51 46	27°33'27	15°57	6° 3	13°35	17°10	12°32	22°54	1° 1	7°56	5°17	23° 4	22° 3	1°35	6°11	W19
T 20	5 55 42	28°34'36	28°55	7°12	14°43	17°51	12°46	23° 1	0°58	7°56	5°18	22°58	22° 0	1°42	6° 9	T 20
F 21	5 59 39	29°35'45	11 <b>米</b> 28	8°23	15°49	18°32	12°59	23° 9	0°56	7°57	5°20	22°54	21°57	1°49	6° 8	F 21
S 22	6 3 35	0 <b>ප</b> 36'54	23°43	9°36	16°56	19°13	13°12	23°16	0°53	7°58	5°21	22°52	21°54	1°55	6° 6	S 22
S 23	6 7 32	1°38'03	5 <b>Ƴ</b> 42	10°52	18° 2	19°54	13°26	23°23	0°50	7°58	5°23	22°D52	21°50	2° 2	6° 5	S 23
M24	6 11 28	2°39'13	17°32	12° 9	19° 8	20°35	13°39	23°30	0°48	7°59	5°24	22°R52	21°47	2° 9	6° 4	M24
T 25	6 15 25	3°40'22	29°19	13°27	20°14	21°17	13°52	23°37	0°45	7°59	5°26	22°52	21°44	2°15	6° 2	T 25
W26	6 19 22	4°41'31	118 8	14°47	21°20	21°58	14° 5	23°44	0°43	8° 0	5°28	22°51	21°41	2°22	6° 1	W26
T 27	6 23 18	5°42'40	23° 3	16° 9	22°25	22°39	14°18	23°51	0°40	8° 0	5°29	22°47	21°38	2°29	6° 0	T 27
F 28	6 27 15	6°43'50	5 <b>I</b> 8	17°31	23°30	23°20	14°31	23°58	0°37	8° 1	5°31	22°40	21°35	2°35	5°59	F 28
S 29	6 31 11	7°44'59	17°26	18°54	24°35	24° 2	14°44	24° 5	0°35	8° 1	5°33	22°30	21°31	2°42	5°58	S 29
S 30	6 35 8	<u>8°</u> 46'08	29°58	20°19	25°40	24°43	14°57	24°11	0°32	8° 1	5°34	22°18	21°28	2°49	5°57	S 30
M31	6 39 4	9 <b>ප</b> 47'17	129645	21 <b>×</b> 744	26≈44	25 <b>米</b> 24	15 <b>×</b> 10	24 <b>×</b> 18	0930	8 <b>º</b> 2	5≈36	22 <b>Y</b> 5	21 <b>Y</b> 25	2 <b>8</b> 55	5 <b>8</b> 56	M31

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S 1	21 s52	25n21	3n35	18 s 5 6	1n54	23 s54	2 s26	10 s47	1 s10	21 s12	2 0n33	22 s 1	1n 8	3 23n42	0n15	1 s41	1n28	24 s 30	5 s 3 6	9n36	8n57	11n54	12n28	1 s25
S 2	22 1	27 27	4 17	18 29	2 8	23 42	2 26	10 31	1 8	21 14	0 33	22 2	1 8	3 23 42	0 15	1 41	1 28	24 30	5 36	9 33	8 56	11 57	12 27	1 25
M 3	22 10		4 47	18 5	2 20					21 1						1 42	1 28	24 29	5 36	9 30	8 55		12 26	1 25
T 4 W 5	_	27 30 25 20			2 30 2 37		2 25	9 58		21 19						1 42	1 28 1 29		5 36	9 27	8 54 8 53		12 25	1 25 1 25
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S 8	22 46	11 31	3 37	17 10	2 47	22 14	2 21	8 51	0 58	21 2	0 33	22 5	1 8	3 23 43	0 15	1 44	1 29	24 27	5 35	9 19	8 49	12 16	12 22	1 25
S 9	22 52	5 16	2 39	17 11	2 47	21 57	2 20	8 34	0 56	21 29	0 33	22 5	1 8	3 23 43	0 15	1 44	1 29	24 27	5 35	9 19	8 48	12 19	12 22	1 25
M10	22 58			17 15		21 40	2 19	8 17		21 3				23 43		1 44	1 29	24 27	5 35	9 19		12 22		1 25
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W12 T 13	23 7 23 12			17 33 17 45	2 39	21 4 20 45	2 16 2 14	7 43 7 26		21 3: 21 3'				7 23 43 7 23 43		1 45 1 45	1 29 1 29		5 35 5 35	9 19 9 18			12 19 12 19	1 25 1 25
_		24 31		17 59		20 43	2 12	7 9		21 3				7 23 43		1 46	1 29		5 35	9 16			12 19	1 25
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S 16	23 21	28 11	4 47	18 32	2 17	19 45	2 8	6 34	0 45	21 4	0 32	22 9	1 3	23 43	0 15	1 46	1 29	24 24	5 35	9 10	8 40	12 41	12 17	1 25
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T 18	23 25	-	5 0	19 8	2 3		2 3	6 0		21 4		22 10		23 43		1 47	1 29		5 35	9 2			12 16	1 25
W19 T 20	23 27 23 28	20 32 15 43	4 40 4 7	19 27 19 46	1 55 1 48		2 1 1 58	5 42 5 25		21 49		22 10 22 10		7 23 43 7 23 43		1 47 1 47	1 29 1 29		5 35 5 35	8 59 8 56			12 15 12 15	1 25 1 25
F 21	-	10 23	. ,	20 5	1 40		1 55	5 7		21 5		22 11		7 23 43		1 47	1 29		5 35	8 55			12 13	1 26
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S 23	23 28	0n53	1 30	20 43	1 23	17 11	1 49	4 32	0 35	21 5	0 32	22 12	1 1	23 43	0 15	1 48	1 30	24 21	5 35	8 54	8 31	13 3	12 13	1 26
M24	23 27	6 27		21 2	1 15	16 47	1 46	4 15		21 5				23 43	0 15	1 48			5 35	8 54	8 30		12 13	1 26
T 25	23 25		0n34		1 7		1 43	3 57		21 5				23 43		1 48	1 30		5 35	8 54	8 29		12 12	1 26
W26 T 27		16 42 21 1		21 37 21 54	0 59 0 51		1 39 1 36	3 40 3 22	0 31 0 29		0 31			7 23 43 7 23 43		1 48 1 48	1 30	<ul><li>24 20</li><li>24 20</li></ul>	5 35 5 35	8 54 8 52	8 28 8 26		12 12 12 11	1 26 1 26
F 28	-	24 32		21 34	0 43		1 32	3 5	0 29			22 13		23 43		1 48		24 20	5 35	8 50			12 11	1 26
		26 58		22 26		14 43	1 28	2 47	0 27			22 14		23 43		1 49		24 19	5 35	8 46			12 11	1 26
S 30	23 11	28 6	4 38	22 40	0 27	14 18	1 24	2 29	0 25	22	0 31	22 14	1 (	23 43	0 15	1 49	1 30	24 18	5 35	8 42	8 23	13 25	12 10	1 26
M31	23 s 6	27n46	4n56	22 s54	0n19	13 s52	1 s20	2 s12	0 s24	22 s	0n31	22 s15	1n (	23n43	0n15	1 s49	1n30	24s18	5 s 3 5	8n37	8n22	13n28	12n10	1 s26

Julian Day Number = 2371891.5, Delta T = 22.31 sec Ecliptic obliquity =  $23^{\circ}28'11$ , Nutation = - $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $21^{\circ}41'44$ , Lahiri =  $20^{\circ}48'44$ Greg. Calendar