

Astrodienst Ephemeris Tables for the year 1590

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 1590 GC 00:00 UT

UNITU	AUL T	Jyo uc													00.0	0 01
Day	Sid.t	0	D	ğ	Ф	ď	4	ħ)∤(¥	Р	n	v	Ç	ę,	Day
M 1	6 41 3	10 궁 24'53	2 M 27	18 🗷 9	19≈ 8	29≈30	16 ₽ 18	8°R43	17) (38	5°R10	11 Y 13	13°R38	14 Q 53	20€32	9°R45	M 1
T 2	6 45 0	11°26'04	15°35	18°45	20°21	0 ∺ 16	16°23	8 Ⅱ 39	17°40	5 N 9	11°13	13 N 35	14°49	20°39	9 8 44	T 2
W 3	6 48 57	12°27'15	29°10	19°27	21°33	1° 2	16°29	8°36	17°42	5° 7	11°13	13°30	14°46	20°45	9°43	W 3
T 4	6 52 53	13°28'26	13 × 12	20°13	22°45	1°49	16°34	8°32	17°44	5° 5	11°13	13°26	14°43	20°52	9°42	T 4
F 5	6 56 50	14°29'37	27°39	21° 4	23°57	2°35	16°39	8°29	17°46	5° 4	11°14	13°21	14°40	20°59	9°41	F 5
S 6	7 0 46	15°30'48	12 る 24	21°59	25° 9	3°21	16°44	8°25	17°48	5° 2	11°14	13°17	14°37	21° 5	9°40	S 6
S 7	7 4 43	16°31'59	27°21	22°57	26°21	4° 7	16°49	8°22	17°50	5° 1	11°14	13°15	14°33	21°12	9°39	S 7
M 8	7 8 39	17°33'09	12≈21	23°58	27°33	4°53	16°53	8°19	17°52	4°59	11°14	13°D14	14°30	21°19	9°39	M 8
T 9	7 12 36	18°34'18	27°15	25° 2	28°45	5°39	16°58	8°15	17°54	4°58	11°15	13°15	14°27	21°25	9°38	T 9
W10	7 16 33	19°35'26	11) 57	26° 9	29°57	6°25	17° 2	8°12	17°56	4°56	11°15	13°16	14°24	21°32	9°38	W10
T 11	7 20 29	20°36'34	26°22	27°18	1)(8	7°11	17° 6	8° 9	17°58	4°54	11°15	13°18	14°21	21°38	9°37	T 11
F 12	7 24 26	21°37'41	10 ° 27	28°29	2°20	7°57	17°10	8° 6	18° 0	4°53	11°16	13°19	14°18	21°45	9°37	F 12
S 13	7 28 22	22°38'47	24°10	29°42	3°31	8°43	17°13	8° 4	18° 2	4°51	11°16	13°R19	14°14	21°52	9°36	S 13
S 14	7 32 19	23°39'52	7 8 34	0 궁 57	4°43	9°29	17°17	8° 1	18° 5	4°49	11°17	13°18	14°11	21°58	9°36	S 14
M15	7 36 15	24°40'56	20°39	2°13	5°54	10°15	17°20	7°58	18° 7	4°48	11°17	13°17	14° 8	22° 5	9°36	M15
T 16	7 40 12	25°41'59	3Ⅱ28	3°30	7° 5	11° 1	17°23	7°56	18° 9	4°46	11°17	13°15	14° 5	22°12	9°35	T 16
W17	7 44 8	26°43'02	16° 3	4°49	8°16	11°47	17°26	7°53	18°12	4°44	11°18	13°12	14° 2	22°18	9°35	W17
T 18	7 48 5	27°44'03	28°25	6° 9	9°27	12°33	17°29	7°51	18°14	4°43	11°18	13° 9 13° 7	13°59	22°25	9°D35	T 18 F 19
F 19 S 20	7 52 2 7 55 58	28°45'04 29°46'03	10 © 36 22°39	7°31 8°53	10°37 11°48	13°19 14° 5	17°32 17°34	7°49 7°47	18°17 18°19	4°41 4°39	11°19 11°20	13° 7 13° 6	13°55 13°52	22°32 22°38	9°35 9°35	S 20
					-											
S 21	7 59 55	0≈47'02	4 Ω 35	10°17	12°58	14°51	17°36	7°45	18°22	4°38	11°20	13° 5	13°49	22°45	9°35	S 21
M22	8 3 51	1°47'59	16°26	11°41	14° 9	15°37	17°38	7°43	18°24	4°36	11°21	13°D 5	13°46	22°52	9°36	M22
T 23	8 7 48	2°48'56	28°14	13° 6	15°19	16°22	17°40	7°41	18°27	4°34	11°21	13° 5	13°43	22°58	9°36	T 23
W24	8 11 44	3°49'52	10 mg 2	14°33	16°29	17° 8	17°42	7°39	18°30	4°33	11°22	13° 6	13°39	23° 5	9°36	W24
T 25 F 26	8 15 41 8 19 37	4°50'47 5°51'41	21°52	16° 0 17°28	17°39 18°49	17°54 18°40	17°44	7°38 7°36	18°32 18°35	4°31 4°29	11°23 11°23	13° 7 13° 8	13°36 13°33	23°12 23°18	9°37 9°37	T 25 F 26
S 27	8 23 34	6°52'34	3 Ω 48 15°54	17°28 18°57	18°49 19°58	18°40 19°25	17°45 17°46	7°35	18°38	4°29 4°28	11°23	13° 8	13°33 13°30	23°18 23°25	9°38	S 27
S 28	8 27 31	7°53'27	28°13	20°26	21° 8	20°11	17°47	7°34	18°41	4°26	11°25	13° 9	13°27	23°31	9°38	S 28
M29	8 31 27	8°54'18	10 M .52	21°56	22°17	20°56	17°48	7°33	18°43	4°24	11°25	13°R 9	13°24	23°38	9°39	M29
T 30	8 35 24	9°55'09	23°52	23°28	23°26	21°42	17°48	7°32	18°46	4°23	11°26	13° 9	13°20	23°45	9°40	T 30
W31	8 39 20	10≈55'59	7 . ₹18	25 る 0	24) 35	22 米 28	17 ≏ 49	7 Ⅱ 31	18) (49	4 Ω 21	11 Y 27	13 N 9	13 Ω 17	23 £ 51	9 8 40	W31

Day	0	D	ζ	<u> </u>	·)	ď	7	2	ł		ħ) _į	ξ(4		E	2	n	v	Ç	Ł	
	decl	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	dec	lat		decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1 T 2	23 s 5 23 0		7 20s26 13 20 38	2n32 2 24			12 s36 12 19	1s 0 0 59	5 s 1 2 5 1 4	1n19 1 20	-		s42 42	5 s35 5 34	0 s 4 5 0 4 5	18n56 18 56	0s 6 0 6	11 s20 11 20		16n46 16 47		15n10 15 8		2 s 5 2 5
W 3	22 54		2 20 49				12 2	0 58	5 16	1 20			42	5 34	0 45		0 6	_			16 26	-	12 46	2 5
T 4	22 48						11 45	0 58	5 18	1 20	-		42	5 33		18 57	0 6	-	-, -		16 27		12 46	2 5
F 5 S 6			15 21 14 12 21 27	1 57 1 48			11 28 11 10	0 57 0 56	5 19 5 21	1 20 1 21	_	-	42 41	5 32 5 31		18 57 18 57	0 6 0 6	-		16 51 16 52			12 46 12 46	2 5 2 5
S 7			26 21 39				10 53	0 55	5 23	1 21	_	-	41	5 30		18 58		-		16 53			12 45	2 5
M 8	22 20 22 12		5 21 52 17 22 4				10 35 10 17	0 54 0 53	5 24 5 26	1 21 1 21		-	41 41	5 30 5 29		18 58 18 59	0 6			16 53 16 53			12 45 12 45	2 5 2 5
	22 3		32 22 15			1 29	9 59	0 53	5 27	1 21			41	5 28			0 6			16 52				2 5
	21 54		36 22 26	1 2		1 27	9 41	0 52	5 28	1 22	-		40	5 27	0 45		0 6	-		16 52			-	2 5
F 12 S 13	21 45 21 35		26 22 36 59 22 46		11 59 11 30	1 24 1 22	9 24 9 5	0 51 0 50	5 30 5 31	1 22 1 22			40 40	5 26 5 25	0 45 0 45	19 0 19 0	0 6 0 6			16 52 16 51				2 5 2 5
S 14	21 25		14 22 54			1 19	8 47	0 49	5 32	1 22	_	-	40	5 24	0 45	-	0 6			16 52				2 5
M15 T 16	21 14 21 3	12 55 5 1 16 2 4 5	-	0 26 0 18		1 16 1 13	8 29 8 11	0 49 0 48	5 33 5 34	1 23 1 23			39 39	5 23 5 22	0 44 0 44	19 1 19 1	0 5 0 5			16 52 16 53		-		2 5 2 5
W17	20 51	-			9 35	1 11	7 53	0 47	5 35	1 23	-	-	39	5 21	0 44	19 2	0 5	_		16 53				2 5
T 18			13 23 20	0 1	9 5	1 7	7 34	0 46	5 36	1 24			39	5 20	0 44	19 2	0 5			16 54				2 5
F 19 S 20	20 27 20 15	-	51 23 24 51 23 26		8 36 8 6	1 4 1 1	7 16 6 58	0 45 0 44	5 36 5 37	1 24 1 24			39 38	5 19 5 18	-	19 3 19 3	0 5 0 5			16 55 16 55				2 5 2 5
S 21	-		17 23 28	0 23	7 36	0 58	6 39	0 44	5 38	1 24	_		38	5 17	0 44	-	0 5			16 56				2 5
M22	19 48	-	19 23 29	0 30	7 5	0 55	6 21	0 43	5 38	1 25	_		38	5 16	-	-	0 5		-	16 56				2 5
T 23 W24		13 25 1 2 10 3 2 2	23 23 28 24 23 26	0 37 0 44	6 35	0 51 0 48	6 2 5 43	0 42 0 41	5 39 5 39	1 25 1 25	_		38 37	5 15 5 14		19 4 19 5	0 5 0 5	11 10 11 9		16 55 16 55		-	-	2 5 2 5
T 25	19 6		19 23 23		5 34	0 44	5 25	0 40	5 39	1 25	_		37	5 13	-	19 5	0 5	11 9	-, -	16 55			-	2 5
F 26	18 51		6 23 18	0 58	5 3	0 40	5 6	0 40	5 40	1 26			37	5 12			0 5			16 55				2 5
S 27	18 36	1 s 5 5 4 4	13 23 12	1 4	4 32	0 36	4 47	0 39	5 40	1 26	20	2 1	37	5 11	0 44	19 6	0 5	11 7	17 0	16 55	16 48	14 35	12 46	2 4
S 28	18 20		7 23 5		4 1	0 33	4 29	0 38	5 40	1 26	_		36	5 10	-		0 5			16 54		-	-	2 4
M29 T 30	18 4 17 48		18 22 57	1 16	3 30	0 29	4 10	0 37 0 36	5 40	1 26 1 27			36 36	5 9	-		0 5			16 54 16 54				2 4
W31	17 48 17 s32	-	13 22 47 50 22 s36	1 21 1 s27	2 59 2 s 2 8	0 25 0 s20	3 51 3 s32	0 36 0s35		1 27 1n27			s36	5 8 5s 7	0 44 0s44		0 5 0s 5	11 6 11s 5						2 4 2s 4

Julian Day Number = 2301795.5, Delta T = 103.33 sec Ecliptic obliquity = $23^{\circ}29'26$, Nutation = - $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}01'06$, Lahiri = $18^{\circ}08'06$ Greg. Calendar

FEBRUARY 1590 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂ [™]	4	ħ)∤(¥	В	S.	v	Ç	Ŗ	Day
T 1	8 43 17	11≈56'48	21🗖11	26 궁 32	25) 44	23) 13	17°R49	7°R30	18 米 52	4°R19	11 Y 28	13°R 8	13 Ω 14	23 Q 58	9841	T 1
F 2	8 47 13	12°57'36	5 云 32	28° 6	26°53	23°59	17 ≏ 49	7Ⅱ29	18°55	4Ω 18	11°29	13°D 8	13°11	24° 5	9°42	F 2
S 3	8 51 10	13°58'23	20°16	29°40	28° 1	24°44	17°49	7°29	18°58	4°16	11°29	13 N 8	13° 8	24°11	9°43	S 3
S 4	8 55 6	14°59'08	5≈18	1≈15	29°10	25°29	17°48	7°28	19° 1	4°14	11°30	13° 8	13° 5	24°18	9°44	S 4
M 5	8 59 3	15°59'52	20°29	2°51	o Υ 18	26°15	17°48	7°28	19° 4	4°13	11°31	13°R 8	13° 1	24°25	9°45	M 5
T 6	9 3 0	17° 0'35	5) (42	4°28	1°26	27° 0	17°47	7°28	19° 7	4°11	11°32	13° 8	12°58	24°31	9°47	T 6
W 7	9 6 56	18° 1'17	20°44	6° 6	2°34	27°46	17°46	7°D27	19°10	4° 9	11°33	13° 8	12°55	24°38	9°48	W 7
T 8	9 10 53	19° 1'56	5 Υ 29	7°44	3°41	28°31	17°45	7°27	19°13	4°8	11°34	13° 7	12°52	24°45	9°49	T 8
F 9	9 14 49	20° 2'34	19°51	9°23	4°49	29°16	17°43	7°28	19°16	4° 6	11°35	13° 7	12°49	24°51	9°50	F 9
S 10	9 18 46	21° 3'10	3 8 47	11° 3	5°56	0 Υ 1	17°42	7°28	19°19	4° 4	11°36	13° 6	12°45	24°58	9°52	S 10
S 11	9 22 42	22° 3'45	17°16	12°44	7° 3	0°46	17°40	7°28	19°22	4° 3	11°37	13°D 6	12°42	25° 5	9°53	S 11
M12	9 26 39	23° 4'17	0П21	14°26	8° 9	1°32	17°38	7°29	19°25	4° 1	11°38	13° 6	12°39	25°11	9°55	M12
T 13	9 30 35	24° 4'48	13° 4	16° 9	9°16	2°17	17°36	7°29	19°28	4° 0	11°39	13° 6	12°36	25°18	9°57	T 13
W14	9 34 32	25° 5'17	25°29	17°53	10°22	3° 2	17°34	7°30	19°32	3°58	11°40	13° 7	12°33	25°24	9°58	W14
T 15	9 38 29	26° 5'44	7939	19°37	11°28	3°47	17°31	7°31	19°35	3°57	11°41	13° 8	12°30	25°31	10° 0	T 15
F 16	9 42 25	27° 6'09	19°40	21°23	12°34	4°32	17°29	7°32	19°38	3°55	11°42	13°10	12°26	25°38	10° 2	F 16
S 17	9 46 22	28° 6'33	1 Ω 33	23°10	13°39	5°17	17°26	7°33	19°41	3°54	11°43	13°11	12°23	25°44	10° 4	S 17
S 18	9 50 18	29° 6'54	13°22	24°57	14°44	6° 2	17°23	7°34	19°45	3°52	11°44	13°R11	12°20	25°51	10° 6	S 18
M19	9 54 15	0 米 7'14	25°10	26°46	15°49	6°46	17°20	7°35	19°48	3°51	11°45	13°10	12°17	25°58	10° 8	M19
T 20	9 58 11	1° 7'32	6 m 58	28°35	16°54	7°31	17°17	7°36	19°51	3°49	11°46	13° 9	12°14	26° 4	10°10	T 20
W21	10 2 8	2° 7'48	18°50	0 ∺ 25	17°58	8°16	17°13	7°38	19°54	3°48	11°48	13° 7	12°11	26°11	10°12	W21
T 22	10 6 4	3° 8'03	0 ჲ 46	2°17	19° 2	9° 1	17° 9	7°39	19°58	3°46	11°49	13° 4	12° 7	26°18	10°14	T 22
F 23	10 10 1	4° 8'15	12°49	4° 9	20° 5	9°45	17° 5	7°41	20° 1	3°45	11°50	13° 0	12° 4	26°24	10°16	F 23
S 24	10 13 57	5° 8'27	25° 1	6° 2	21° 9	10°30	17° 1	7°43	20° 4	3°43	11°51	12°57	12° 1	26°31	10°18	S 24
S 25	10 17 54	6° 8'36	7 M 25	7°56	22°12	11°15	16°57	7°45	20° 8	3°42	11°52	12°54	11°58	26°38	10°21	S 25
M26	10 21 51	7° 8'44	20° 4	9°51	23°14	11°59	16°53	7°47	20°11	3°41	11°53	12°51	11°55	26°44	10°23	M26
T 27	10 25 47	8° 8'51	3 ∡ 1	11°46	24°17	12°44	16°48	7°49	20°15	3°39	11°55	12°D50	11°51	26°51	10°25	T 27
W28	10 29 44	9 米 8'56	16 × 19	13) (42	25 Ƴ 19	13 Y 28	16 ≏ 44	7 Ⅱ 51	20) 18	3Ω 38	11 Y 56	$12\Omega 50$	11 Ω 48	$26\Omega 58$	10828	W28

Day	0	D		ξ	5	φ		C	7	2	ļ.	1	<u>ի</u>)	ţ(j	ţ.	E	2	n	v	Ç	Ą	Š
	decl	decl la	at	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1 F 2			4n11 3 15	22 s23 22 9	1 s31 1 36	1 s57 1 25	0s16 0 12	3 s14 2 55	0s35 0 34	5 s40 5 40	1n27 1 27	20n 2 20 3				19n 8 19 8		11s 4				14n28 14 27		2s 4 2 4
S 3			-	21 54	1 40	0 54	0 8	2 36	0 33	5 39				_								14 25		
S 4	16 23	18 17	0 44	21 37	1 45	0 23	0 3	2 17	0 32	5 39	1 28			_	0 44	19 9	0 5	_				14 24	-	2 4
M 5		-		21 19	1 48	0n 8	0n 1	1 59	0 31	5 38	1 28			-								14 22	-	2 4
T 6 W 7	15 46 15 28	11 20 6 39	2 2 3 14	21 0 20 38	1 52 1 55	0 40	0 6 0 10	1 40 1 21	0 31 0 30	5 38 5 37	1 28 1 29	20 3										14 21 14 20	-	2 4
T 8	15 28		-	20 38	1 57	1 11 1 42	0 10	1 21	0 29	5 37	1 29											14 20	-	2 4
F 9	14 50	-		19 52	2 0	2 13	0 20	0 43	0 28	5 36	1 29	-					0 5	-				14 17		2 4
S 10	14 31	7 53	5 14	19 27	2 2	2 44	0 25	0 25	0 27	5 35	1 29	20 4	1 33	4 55	0 44	19 12	0 5	10 59				14 15		2 4
S 11				19 0	2 3	3 15	0 30	0 6	0 27	5 34	1 30					19 12		10 58				14 14	-	
M12			-	18 31	2 5	3 46	0 35	0n13	0 26	5 33	1 30							10 58				14 12	-	
T 13 W14				18 1 17 30	2 6	4 17 4 48	0 40	0 31 0 50	0 25 0 24	5 32 5 31	1 30			_					16 55 16 55			14 11 14 10	-	2 4
T 15	-			16 57	2 6	5 18	0 50	1 9	0 23	5 30	1 31	20 6		4 48					16 55				12 53	2 4
F 16			-	16 23	2 5	5 49	0 55	1 27	0 23	5 29	1 31		1 32	-					16 55			14 7		
S 17	12 9	18 49	1 4	15 47	2 5	6 19	1 0	1 46	0 22	5 27	1 31	20 7	1 31	4 46	0 44	19 14	0 5	10 54	16 54	16 54	17 7	14 5	12 55	2 4
	-		-	15 10	2 3	6 49	1 5	2 4	0 21	5 26						19 15		10 54				14 4		
	11 27		-		2 1	7 19	1 11	2 23	0 20	5 25	1 31			4 43		19 15							12 56	
T 20 W21	11 6 10 44		2 8 3 5	13 51 13 9	1 59 1 56	7 49 8 19	1 16 1 21	2 41 3 0	0 20 0 19	5 23 5 22	1 32 1 32			4 42								14 1 13 59		2 4
T 22	10 44	,	3 54	-	1 50	8 48	1 21	3 18		5 22	1 32											13 59		2 4 2 3
F 23	10 23	-		11 42	1 49	9 18	1 32	3 37	0 17	5 18	1 32					19 17						13 57		2 3
S 24	9 39			10 56	1 44		1 38	3 55		5 17		20 10				19 17		10 50						2 3
S 25	9 17		5 13		1 39		1 43	4 13				20 11				19 17		10 49					-	2 3
M26		-	5 12		1 34		1 49	4 31	0 15	5 13		20 11				19 18		10 49						2 3
T 27			4 56		1 28		1 54	4 49		5 11		20 12				19 18		10 48					-	2 3
W28	8s 9	18 s26	4n23	7 s40	1 s21	11n40	2n 0	5n 7	0s13	5s 9	1n33	20n13	1 s29	4 s 3 1	Us44	19n18	Us 5	10 s47	16s52	1/n 0	I'/nI'/	13n49	13n 2	2 s 3

Julian Day Number = 2301826.5, Delta T = 103.20 sec Ecliptic obliquity = 23°29'27, Nutation = -0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°01'10, Lahiri = 18°08'11Greg. Calendar

MARCH 1590 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	ð	4	ħ)∤(¥	В	R	ດ	Ç	ķ	Day
T 1	10 33 40	10 ¥ 8'59	29 × 759	15) 39	26 Y 20	14 Y 13	16°R39	7 Ⅱ 54	20) (21	3°R37	11 Y 57	12Ω51	11 Ω 45	27Ω 4	10830	T 1
F 2	10 37 37	11° 9'01	14궁 5	17°35	27°21	14°57	16 ♀ 34	7°56	20°25	3 Q 35	11°58	12°53	11°42	27°11	10°33	F 2
S 3	10 41 33	12° 9'01	28°34	19°32	28°22	15°41	16°29	7°59	20°28	3°34	12° 0	12°54	11°39	27°17	10°35	S 3
S 4	10 45 30	13° 9'00	13≈24	21°29	29°23	16°26	16°23	8° 1	20°32	3°33	12° 1	12°R55	11°36	27°24	10°38	S 4
M 5	10 49 26	14° 8'57	28°29	23°26	0823	17°10	16°18	8° 4	20°35	3°32	12° 2	12°54	11°32	27°31	10°41	M 5
T 6	10 53 23	15° 8'51	13 ¥ 40	25°22	1°22	17°54	16°12	8° 7	20°38	3°30	12° 3	12°52	11°29	27°37	10°44	T 6
W 7	10 57 20	16° 8'44	28°48	27°17	2°21	18°38	16° 7	8°10	20°42	3°29	12° 5	12°48	11°26	27°44	10°46	W 7
T 8	11 116	17° 8'35	13 Y 44	29°11	3°20	19°22	16° 1	8°13	20°45	3°28	12° 6	12°43	11°23	27°51	10°49	T 8
F 9	11 5 13	18° 8'23	28°18	1 Υ 3	4°18	20° 6	15°55	8°16	20°49	3°27	12° 7	12°37	11°20	27°57	10°52	F 9
S 10	11 9 9	19° 8'10	12826	2°53	5°16	20°51	15°49	8°19	20°52	3°26	12° 9	12°32	11°16	28° 4	10°55	S 10
S 11	11 13 6	20° 7'54	26° 6	4°40	6°13	21°35	15°42	8°23	20°56	3°25	12°10	12°28	11°13	28°11	10°58	S 11
M12	11 17 2	21° 7'36	9 Ⅱ 17	6°25	7°10	22°18	15°36	8°26	20°59	3°24	12°11	12°26	11°10	28°17	11° 1	M12
T 13	11 20 59	22° 7'15	22° 2	8° 6	8° 6	23° 2	15°30	8°30	21° 2	3°23	12°13	12°D25	11° 7	28°24	11° 4	T 13
W14	11 24 55	23° 6'53	49526	9°43	9° 1	23°46	15°23	8°33	21° 6	3°22	12°14	12°26	11° 4	28°31	11° 7	W14
T 15	11 28 52	24° 6'28	16°33	11°16	9°56	24°30	15°16	8°37	21° 9	3°21	12°15	12°27	11° 1	28°37	11°11	T 15
F 16	11 32 49	25° 6'00	28°29	12°44	10°50	25°14	15°10	8°41	21°13	3°20	12°17	12°29	10°57	28°44	11°14	F 16
S 17	11 36 45	26° 5'31	10 Ω 18	14° 7	11°44	25°58	15° 3	8°45	21°16	3°19	12°18	12°R30	10°54	28°51	11°17	S 17
S 18	11 40 42	27° 4'59	22° 5	15°24	12°37	26°41	14°56	8°49	21°20	3°18	12°20	12°29	10°51	28°57	11°20	S 18
M19	11 44 38	28° 4'25	3 m 52	16°35	13°29	27°25	14°49	8°53	21°23	3°17	12°21	12°27	10°48	29° 4	11°24	M19
T 20	11 48 35	29° 3'49	15°44	17°40	14°21	28° 8	14°42	8°57	21°26	3°17	12°22	12°22	10°45	29°11	11°27	T 20
W21	11 52 31	0 Υ 3'10	27°42	18°38	15°11	28°52	14°34	9° 2	21°30	3°16	12°24	12°15	10°42	29°17	11°31	W21
T 22	11 56 28	1° 2'30	9 <u>Ω</u> 48	19°29	16° 1	29°35	14°27	9° 6	21°33	3°15	12°25	12° 7	10°38	29°24	11°34	T 22
F 23	12 0 24	2° 1'47	22° 3	20°14	16°51	0819	14°20	9°10	21°37	3°14	12°26	11°57	10°35	29°31	11°37	F 23
S 24	12 4 21	3° 1'03	4ML29	20°51	17°39	1° 2	14°12	9°15	21°40	3°14	12°28	11°48	10°32	29°37	11°41	S 24
S 25	12 8 17	4° 0'16	17° 6	21°20	18°27	1°45	14° 5	9°20	21°43	3°13	12°29	11°39	10°29	29°44	11°45	S 25
M26	12 12 14	4°59'28	29°55	21°43	19°13	2°29	13°57	9°24	21°47	3°12	12°31	11°32	10°26	29°50	11°48	M26
T 27	12 16 11	5°58'38	12 ₹ 57	21°58	19°59	3°12	13°50	9°29	21°50	3°12	12°32	11°28	10°22	29°57	11°52	T 27
W28	12 20 7	6°57'46	26°15	22° 5	20°44	3°55	13°42	9°34	21°53	3°11	12°34	11°25	10°19	0 Mp 4	11°55	W28
T 29	12 24 4	7°56'53	9 궁 50	22°R 6	21°28	4°38	13°35	9°39	21°57	3°11	12°35	11°D25	10°16	0°10	11°59	T 29
F 30	12 28 0	8°55'58	23°44	22° 0	22°11	5°21	13°27	9°44	22° 0	3°10	12°36	11°25	10°13	0°17	12° 3	F 30
S 31	12 31 57	9 Y 55'01	7 ≈ 56	21 Y 47	22 8 53	6 8 5	13 ≏ 19	9∏49	22 ∺ 3	3 N 10	12 Y 38	11°R26	10 Q 10	0 m 24	128 7	S 31

Day	0	D	ğ	Ф	♂ [™]	4	ħ)∤(,	Р	y C	Ç	Ŷ,
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl de	cl decl	decl lat
T 1		19 s 55 3 n 3 4		4 12n 8 2n 6						10s47 16s52			
F 2 S 3		20 14 2 32 19 13 1 18		6 12 36 2 11 57 13 3 2 17			20 14 1 28 20 14 1 28			10 46 16 51 10 45 16 51			
S 4		16 53 0s 3		18 13 30 2 22			20 15 1 28			10 45 16 51			
M 5	6 15	13 21 1 24	3 12 0 3	88 13 56 2 28		4 58 1 34	20 16 1 27	4 24 0 44		10 44 16 51			
T 6	5 52	8 54 2 41	2 16 0 2	-		. 50 1 5.		4 23 0 44				-	
W 7	5 29	3 55 3 45			7 11 0 8	4 54 1 35		4 22 0 44				-	
T 8 F 9	5 5 4 42	1n14 4 33 6 11 5 2	0 25 0 0n30 0n	6 15 14 2 45 6 15 40 2 51	7 29 0 8 7 46 0 7	4 51 1 35 4 49 1 35		4 20 0 44 4 19 0 44				24 13 37	13 9 2 3 13 10 2 3
S 10		10 39 5 12					20 19 1 26			10 42 16 50			
S 11	3 55	14 24 5 3	2 19 0 3	30 16 29 3 2	8 21 0 5	4 44 1 35	20 20 1 26	4 16 0 44	19 21 0 5	10 40 16 50	17 6 17	27 13 33	13 12 2 3
M12	3 32	17 18 4 38	3 12 0 4	13 16 53 3 8	8 38 0 5	4 41 1 35	20 21 1 26	4 15 0 44	19 22 0 5	10 40 16 50	17 7 17	28 13 31	13 13 2 3
T 13	3 8	19 15 4 1	4 4 0 5			4 39 1 35		-				29 13 30	
W14		20 13 3 12	-	8 17 40 3 19		4 36 1 36		"				29 13 28	
T 15 F 16		20 12 2 16 19 17 1 15	-			4 33 1 36 4 31 1 36		-		10 38 16 50 10 37 16 49		30 13 26 31 13 25	
S 17		17 30 0 12					20 25 1 25			10 37 16 49		32 13 23	
S 18	1 10	15 0 0n52	7 53 1 5	58 19 10 3 41	10 18 0 0	4 25 1 36	20 26 1 24	4 7 0 44	19 23 0 5	10 36 16 49	17 6 17	33 13 22	13 19 2 3
M19	0 46	11 52 1 53			10 35 0n 0	4 22 1 36		4 5 0 44		10 35 16 49		34 13 20	
T 20	0 22	8 15 2 50			10 51 0 1		20 27 1 24			10 35 16 49		35 13 19	
W21 T 22	0n 1 0 25	4 16 3 40 0 5 4 20			11 7 0 2 11 23 0 2		20 28 1 24 20 29 1 23			10 34 16 49 10 34 16 49			-
F 23	0 49				11 25 0 2	4 11 1 36		"		10 34 10 49			
S 24	1 12				11 55 0 4		20 31 1 23			10 32 16 49			-
S 25	1 36	12 6 5 5	11 11 3	4 21 29 4 18	12 11 0 4	4 5 1 37	20 32 1 23	3 57 0 44	19 24 0 5	10 32 16 49	17 20 17	39 13 11	13 26 2 3
M26		15 26 4 51	_		12 26 0 5				19 24 0 5				13 27 2 3
T 27	_	-	11 34 3 1						19 25 0 5				13 28 2 3
W28 T 29		19 48 3 38 20 27 2 41	11 40 3 1 11 41 3 1	7 22 21 4 33 8 22 38 4 38	12 57 0 7 13 12 0 7	3 56 1 37 3 53 1 37		3 53 0 44 3 52 0 44					13 30 2 3 13 31 2 3
F 30			_	9 22 54 4 42		3 50 1 37			19 25 0 5				
S 31					13n43 On 8		20n38 1s22			10s28 16s48			

Julian Day Number = 2301854.5, Delta T = 103.08 sec Ecliptic obliquity = $23^{\circ}29'27$, Nutation = - $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}01'14$, Lahiri = $18^{\circ}08'15$ Greg. Calendar

APRIL 1590 GC 00:00 UT

AI IX.	LL 135	uc													00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(#	В	S.	v	Ç	ķ	Day
S 1	12 35 53	10 Y 54'02	22≈26	21°R28	23833	6 8 48	13°R12	9 Ⅱ 54	22) 7	3°R 9	12 Y 39	11°R25	10 Ω 7	0 m 30	12810	S 1
M 2	12 39 50	11°53'01	7 ∺ 11	21 ° 4	24°13	7°31	13 ♀ 4	10° 0	22°10	3 N 9	12°41	11 £ 23	10° 3	0°37	12°14	M 2
T 3	12 43 46	12°51'59	22° 5	20°34	24°51	8°13	12°56	10° 5	22°13	3° 8	12°42	11°18	10° 0	0°44	12°18	T 3
W 4	12 47 43	13°50'54	7 Υ 1	20° 0	25°29	8°56	12°49	10°10	22°16	3° 8	12°44	11°11	9°57	0°50	12°22	W 4
T 5	12 51 40	14°49'48	21°49	19°22	26° 4	9°39	12°41	10°16	22°20	3°8	12°45	11° 1	9°54	0°57	12°26	T 5
F 6	12 55 36	15°48'39	6822	18°41	26°39	10°22	12°33	10°21	22°23	3° 8	12°46	10°51	9°51	1° 4	12°30	F 6
S 7	12 59 33	16°47'28	20°32	17°58	27°12	11° 5	12°26	10°27	22°26	3° 7	12°48	10°41	9°48	1°10	12°34	S 7
S 8	13 3 29	17°46'16	4 Ⅱ 15	17°14	27°44	11°47	12°18	10°33	22°29	3° 7	12°49	10°33	9°44	1°17	12°38	S 8
M 9	13 7 26	18°45'01	17°31	16°30	28°14	12°30	12°10	10°39	22°33	3° 7	12°51	10°26	9°41	1°24	12°42	M 9
T 10	13 11 22	19°43'43	0921	15°45	28°43	13°13	12° 3	10°44	22°36	3° 7	12°52	10°22	9°38	1°30	12°46	T 10
W11	13 15 19	20°42'24	12°47	15° 2	29°10	13°55	11°55	10°50	22°39	3° 7	12°54	10°21	9°35	1°37	12°50	W11
T 12	13 19 15	21°41'02	24°56	14°21	29°36	14°38	11°48	10°56	22°42	3° 7	12°55	10°D20	9°32	1°44	12°54	T 12
F 13	13 23 12	22°39'38	6Ω 53	13°42	29°59	15°20	11°40	11° 2	22°45	3° 7	12°56	10°R21	9°28	1°50	12°58	F 13
S 14	13 27 9	23°38'12	18°42	13° 7	0Д21	16° 3	11°33	11° 9	22°48	3°D 7	12°58	10°20	9°25	1°57	13° 2	S 14
S 15	13 31 5	24°36'44	0 m 29	12°35	0°41	16°45	11°25	11°15	22°51	3° 7	12°59	10°19	9°22	2° 4	13° 6	S 15
M16	13 35 2	25°35'13	12°19	12° 8	1° 0	17°27	11°18	11°21	22°54	3° 7	13° 1	10°15	9°19	2°10	13°10	M16
T 17	13 38 58	26°33'41	24°15	11°45	1°16	18° 9	11°11	11°27	22°57	3° 7	13° 2	10° 8	9°16	2°17	13°14	T 17
W18	13 42 55	27°32'06	6 ₽ 21	11°26	1°30	18°52	11° 4	11°34	23° 0	3° 7	13° 3	9°58	9°13	2°24	13°18	W18
T 19	13 46 51	28°30'29	18°39	11°13	1°42	19°34	10°56	11°40	23° 3	3° 7	13° 5	9°47	9° 9	2°30	13°22	T 19
F 20	13 50 48	29°28'51	1 M 9	11° 4	1°52	20°16	10°49	11°46	23° 6	3° 7	13° 6	9°34	9° 6	2°37	13°27	F 20
S 21	13 54 44	0827'10	13°52	11°D 0	2° 0	20°58	10°43	11°53	23° 9	3° 7	13° 8	9°21	9° 3	2°43	13°31	S 21
S 22	13 58 41	1°25'28	26°48	11° 2	2° 5	21°40	10°36	11°59	23°12	3° 8	13° 9	9° 9	9° 0	2°50	13°35	S 22
M23	14 2 38	2°23'44	9 ₹ 55	11°8	2° 8	22°22	10°29	12° 6	23°15	3° 8	13°10	8°59	8°57	2°57	13°39	M23
T 24	14 6 34	3°21'59	23°14	11°19	2°R 9	23° 4	10°22	12°13	23°17	3° 8	13°12	8°52	8°53	3° 3	13°43	T 24
W25	14 10 31	4°20'12	6 云 43	11°34	2° 7	23°46	10°16	12°19	23°20	3° 9	13°13	8°47	8°50	3°10	13°48	W25
T 26	14 14 27	5°18'24	20°24	11°54	2° 3	24°28	10° 9	12°26	23°23	3° 9	13°14	8°45	8°47	3°17	13°52	T 26
F 27	14 18 24	6°16'34	4≈16	12°19	1°57	25°10	10° 3	12°33	23°26	3° 9	13°16	8°45	8°44	3°23	13°56	F 27
S 28	14 22 20	7°14'42	18°19	12°48	1°48	25°51	9°57	12°40	23°28	3°10	13°17	8°45	8°41	3°30	14° 0	S 28
S 29	14 26 17	8°12'49	2 ₩34	13°21	1°37	26°33	9°51	12°47	23°31	3°10	13°18	8°44	8°38	3°37	14° 5	S 29
M30	14 30 13	9810'55	16 ∺ 58	13 Y 58	1 Ⅲ 23	27 8 15	9 ≏ 45	12 Ⅱ 54	23) (34	3 Ω 11	13 Y 20	$8\Omega 40$	8 Ω 34	3 m) 43	148 9	M30

Day	0	D		ğ	Q		ď	7	2	+	ŧ	ì)	ł(4		E	2	n	U	ţ	لح	5
	decl	decl lat	dec	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	4n19	14 s 59 0 s	s59 11n2	3 3n	14 23n24	4n51	13n57	0n 9	3 s44	1n37	20n39	1 s21	3 s48	0 s44	19n25	0 s 5	10 s28	16 s48	17n23	17n45	13n 0	13n34	2 s 3
M 2	4 42	10 57 2	13 11	3	9 23 38	4 55	14 12	0 10	3 41	1 37	20 39	1 21	3 47	0 44	19 25	0 5	10 27	16 48	17 24	17 46	12 58	13 35	2 3
T 3	5 6	6 12 3	19 10 5	2 3	3 23 52	5 0	14 27	0 10	3 38	1 37	20 40	1 21	3 46	0 44	19 25	0 4	10 27	16 48	17 26	17 47	12 57	13 36	2 3
W 4	5 28	1 4 4	12 10 3	2 2 :	55 24 5	5 4	14 41	0 11	3 35	1 37	20 41	1 21	3 44	0 44	19 26	0 4	10 26	16 48	17 28	17 48	12 55	13 37	2 3
T 5	5 51	4n 5 4	47 10	2 4	46 24 17	5 7	14 55	0 12	3 32	1 37	20 42	1 21	3 43	0 44	19 26	0 4	10 26	16 48	17 30	17 48	12 53	13 39	2 3
F 6	6 14	8 54 5	3 9 4	1 2 3	35 24 29	5 11	15 9	0 12	3 29	1 37	20 43	1 20	3 42	0 44	19 26	0 4	10 25	16 48	17 33	17 49	12 52	13 40	2 3
S 7	6 37	13 7 4	59 9 1	5 2 2	23 24 41	5 15	15 23	0 13	3 26	1 37	20 44	1 20	3 41	0 44	19 26	0 4	10 24	16 48	17 36	17 50	12 50	13 41	2 3
S 8	6 59	16 29 4	38 8 4	7 2	10 24 51	5 18	15 37	0 14	3 23	1 37	20 45	1 20	3 39	0 44	19 26	0 4	10 24	16 48	17 38	17 51	12 49	13 42	2 3
M 9	7 22	18 52 4	3 8 1	5 1 :	55 25 1	5 21	15 51	0 14	3 20	1 37	20 46	1 20	3 38	0 44	19 26	0 4	10 23	16 48	17 40	17 52	12 47	13 43	2 3
T 10	7 44	20 13 3	16 7 4	5 1 4	40 25 11	5 24	16 4	0 15	3 17	1 37	20 47	1 20	3 37	0 44	19 26	0 4	10 23	16 48	17 41	17 53	12 45	13 44	2 3
W11	8 6	20 32 2	21 7 1	4 1 2	24 25 20	5 27	16 18	0 16	3 14	1 36	20 48	1 19	3 36	0 44	19 26	0 4	10 22	16 49	17 41	17 54	12 44	13 46	2 4
T 12	8 28	19 51 1	21 6 4	3 1	8 25 28	5 29	16 31	0 16	3 12	1 36	20 49	1 19	3 34	0 44	19 26	0 4	10 22	16 49	17 41	17 54	12 42	13 47	2 4
F 13	8 50	18 18 0	18 6 1	0 :	51 25 35	5 32	16 44	0 17	3 9	1 36	20 50	1 19	3 33	0 44	19 26	0 4	10 21	16 49	17 41	17 55	12 41	13 48	2 4
S 14	9 12	15 57 Or	n44 5 4	0 3	35 25 42	5 34	16 57	0 17	3 6	1 36	20 51	1 19	3 32	0 44	19 26	0 4	10 21	16 49	17 41	17 56	12 39	13 49	2 4
S 15	9 33	12 58 1	45 5 1	6 0	18 25 48	5 35	17 10	0 18	3 3	1 36	20 53	1 19	3 31	0 44	19 26	0 4	10 20	16 49	17 42	17 57	12 37	13 50	2 4
M16	9 55	9 26 2	41 4 5	0 0	1 25 53	5 37	17 22	0 19	3 0	1 36	20 54	1 19	3 30	0 44	19 26	0 4	10 20	16 49	17 43	17 58	12 36	13 51	2 4
T 17	10 16	5 31 3	31 4 2	6 0s	15 25 58	5 38	17 35	0 19	2 58	1 36	20 55	1 18	3 28	0 44	19 26	0 4	10 20	16 49	17 45	17 59	12 34	13 53	2 4
W18	10 37	1 19 4	11 4	1 0 3	31 26 2	5 39	17 47	0 20	2 55	1 36	20 56	1 18	3 27	0 44	19 26	0 4	10 19	16 49	17 47	17 59	12 32	13 54	2 4
T 19	10 58	2s59 4	41 3 4	1 0 4	46 26 4	5 39	17 59	0 20	2 52	1 36	20 57	1 18	3 26	0 44	19 26	0 4	10 19	16 49	17 50	18 0	12 31	13 55	2 4
	11 19	7 15 4	57 3 2	3 1	1 26 7	5 39	18 11	0 21	2 50	1 36	20 58	1 18	3 25	0 44	19 26	0 4	10 18	16 49	17 54	18 1	12 29	13 56	2 4
S 21	11 39	11 16 5	0 3 1	3 1	15 26 8	5 39	18 23	0 22	2 47	1 36	20 59	1 18	3 24	0 44	19 26	0 4	10 18	16 49	17 57	18 2	12 27	13 57	2 4
S 22	12 0	14 50 4	47 3	2 1 2	28 26 8	5 38	18 35	0 22	2 44	1 35	21 0	1 18	3 23	0 44	19 26	0 4	10 17	16 49	18 0	18 3	12 26	13 59	2 4
M23	12 20	17 43 4	18 2 5	2 1 4	40 26 8	5 37	18 46	0 23	2 42	1 35	21 1	1 17	3 22	0 44	19 26	0 4	10 17	16 49	18 3	18 4	12 24	14 0	2 4
T 24	12 40	19 43 3	36 2 4	5 1 :	52 26 6	5 35	18 57	0 23	2 39	1 35	21 2	1 17	3 20	0 44	19 26	0 4	10 17	16 50	18 5	18 4	12 22	14 1	2 4
W25	13 0	20 39 2	41 2 4	2 2	3 26 4	5 33	19 8	0 24	2 37	1 35	21 3	1 17	3 19	0 44	19 26	0 4	10 16	16 50	18 6	18 5	12 21	14 2	2 4
T 26	13 19	20 22 1	35 2 4	1 2	13 26 0	5 30	19 19	0 24	2 35	1 35	21 4	1 17	3 18	0 44	19 26	0 4	10 16	16 50	18 7	18 6	12 19	14 3	2 4
F 27	13 38	18 51 0	24 2 4	2 2 2	22 25 56	5 27	19 30	0 25	2 32	1 35	21 5	1 17	3 17	0 44	19 26	0 4	10 15	16 50	18 7	18 7	12 17	14 5	2 4
S 28	13 58	16 10 0s	550 2 4	2 3	30 25 51	5 23	19 41	0 26	2 30	1 35	21 6	1 17	3 16	0 44	19 25	0 4	10 15	16 50	18 7	18 8	12 16	14 6	2 4
S 29	14 16	12 29 2	2 2 5	2	38 25 44	5 19	19 51	0 26	2 28	1 34	21 7	1 16	3 15	0 44	19 25	0 4	10 15	16 50	18 7	18 9	12 14	14 7	2 5
M30	14n35	-	s 7 2n5		45 25n36	5n14		0n27	2 s 2 6		21n 8	1s16			19n25		10 13 10 s14					-	

 $\label{eq:Julian Day Number = 2301885.5, Delta\ T = 102.94\ sec} \\ Ecliptic\ obliquity = 23°29'28, Nutation = -0°00'13, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 19°01'18, Lahiri = 18°08'19Greg.\ Calendar \\ \\$

MAY 1590 GC 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)ب(¥	Р	3	ಬ	Ç	ķ0	Day
T 1	14 34 10	10 8 8'59	1 Y 28	14 Y 39	1°R 7	27 8 56	9°R39	13 I 1	23) (36	3 Ω 11	13 Y 21	8°R35	8 N 31	3 m 50	14813	T 1
W 2	14 38 7	11° 7'02	16° 0	15°24	0∏49	28°38	9 ॒ 33	13° 8	23°39	3°12	13°22	$8\Omega 26$	8°28	3°57	14°18	W 2
T 3	14 42 3	12° 5'03	0 8 27	16°12	0°28	29°20	9°28	13°15	23°42	3°13	13°24	8°15	8°25	4° 3	14°22	T 3
F 4	14 46 0	13° 3'03	14°42	17° 3	0° 5	0耳 1	9°22	13°22	23°44	3°13	13°25	8° 3	8°22	4°10	14°26	F 4
S 5	14 49 56	14° 1'02	28°40	17°58	29840	0°43	9°17	13°29	23°47	3°14	13°26	7°52	8°19	4°17	14°30	S 5
S 6	14 53 53	14°58'58	12 II 16	18°56	29°13	1°24	9°12	13°36	23°49	3°15	13°27	7°41	8°15	4°23	14°35	S 6
M 7	14 57 49	15°56'53	25°28	19°57	28°44	2° 5	9° 7	13°44	23°51	3°15	13°29	7°33	8°12	4°30	14°39	M 7
T 8	15 1 46	16°54'46	89917	21° 0	28°13	2°47	9° 2	13°51	23°54	3°16	13°30	7°28	8° 9	4°37	14°43	T 8
W 9	15 5 42	17°52'38	20°45	22° 7	27°41	3°28	8°57	13°58	23°56	3°17	13°31	7°25	8° 6	4°43	14°48	W 9
T 10	15 9 39	18°50'28	2 Ω 55	23°17	27° 7	4° 9	8°53	14° 6	23°58	3°18	13°32	7°D24	8° 3	4°50	14°52	T 10
F 11	15 13 36	19°48'16	14°53	24°29	26°32	4°51	8°48	14°13	24° 1	3°19	13°33	7°R24	7°59	4°57	14°56	F 11
S 12	15 17 32	20°46'02	26°44	25°44	25°55	5°32	8°44	14°20	24° 3	3°19	13°35	7°24	7°56	5° 3	15° 1	S 12
S 13	15 21 29	21°43'47	8 m 33	27° 1	25°19	6°13	8°40	14°28	24° 5	3°20	13°36	7°23	7°53	5°10	15° 5	S 13
M14	15 25 25	22°41'30	20°25	28°21	24°41	6°54	8°36	14°35	24° 7	3°21	13°37	7°20	7°50	5°17	15° 9	M14
T 15	15 29 22	23°39'11	2 ჲ 26	29°43	24° 3	7°35	8°32	14°43	24° 9	3°22	13°38	7°14	7°47	5°23	15°13	T 15
W16	15 33 18	24°36'51	14°38	18 8	23°26	8°16	8°29	14°50	24°12	3°23	13°39	7° 6	7°44	5°30	15°18	W16
T 17	15 37 15	25°34'29	27° 6	2°35	22°48	8°57	8°25	14°58	24°14	3°24	13°40	6°56	7°40	5°37	15°22	T 17
F 18	15 41 11	26°32'06	9 M .50	4° 5	22°11	9°38	8°22	15° 5	24°16	3°25	13°41	6°45	7°37	5°43	15°26	F 18
S 19	15 45 8	27°29'42	22°51	5°37	21°34	10°19	8°19	15°13	24°18	3°27	13°43	6°33	7°34	5°50	15°30	S 19
S 20	15 49 4	28°27'16	6 ₹ 7	7°11	20°58	11° 0	8°16	15°20	24°19	3°28	13°44	6°22	7°31	5°57	15°35	S 20
M21	15 53 1	29°24'49	19°37	8°48	20°24	11°40	8°13	15°28	24°21	3°29	13°45	6°14	7°28	6° 3	15°39	M21
T 22	15 56 58	0 Ⅲ 22'22	3 る 19	10°27	19°51	12°21	8°11	15°36	24°23	3°30	13°46	6° 7	7°25	6°10	15°43	T 22
W23	16 0 54	1°19'53	17°10	12° 9	19°19	13° 2	8° 8	15°43	24°25	3°31	13°47	6° 3	7°21	6°17	15°47	W23
T 24	16 451	2°17'23	1≈ 7	13°52	18°49	13°42	8° 6	15°51	24°27	3°32	13°48	6°D 2	7°18	6°23	15°51	T 24
F 25	16 8 47	3°14'53	15° 9	15°39	18°21	14°23	8° 4	15°59	24°29	3°34	13°49	6° 2	7°15	6°30	15°56	F 25
S 26	16 12 44	4°12'21	29°16	17°27	17°55	15° 4	8° 2	16° 7	24°30	3°35	13°50	6°R 3	7°12	6°37	16° 0	S 26
S 27	16 16 40	5° 9'49	13 ∺ 25	19°18	17°31	15°44	8° 1	16°14	24°32	3°36	13°51	6° 2	7° 9	6°43	16° 4	S 27
M28	16 20 37	6° 7'16	27°36	21°11	17° 9	16°25	7°59	16°22	24°33	3°38	13°52	6° 1	7° 5	6°50	16° 8	M28
T 29	16 24 34	7° 4'43	11 Y 46	23° 6	16°50	17° 5	7°58	16°30	24°35	3°39	13°53	5°57	7° 2	6°57	16°12	T 29
W30	16 28 30	8° 2'09	25°53	25° 3	16°32	17°46	7°57	16°38	24°36	3°40	13°54	5°50	6°59	7° 3	16°16	W30
T 31	16 32 27	8耳59'34	9 8 53	27 8 3	16818	18 Ⅱ 26	7 ≙ 56	16 Ⅱ 45	24) 38	3 Ω 42	13 Y 54	5 Ω 42	6Ω 56	7 M 10	16820	T 31

Day	0	D	ğ	Q	ď	4	ħ)Å(¥	Р	w v	Ç	Š.
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl dec	decl d	decl lat
T 1 W 2	14n54 15 12	3 s 5 4 s 0 2n 2 4 38	3 22 2 56	6 25 18 5 3 20	0n11 0n27 0 21 0 28	2 21 1 34	21n 9 1s16 21 10 1 16	3 12 0 44	19 25 0 4	1	18 12 18 1	1 12 9 14	11 2 5
T 3 F 4 S 5		7 0 4 58 11 31 4 59 15 20 4 41	3 53 3 4	0 25 7 4 56 20 4 24 55 4 49 20 7 24 42 4 41 20	0 40 0 29	2 17 1 33	21 11 1 16 21 12 1 16 21 13 1 16	3 10 0 44	19 25 0 4	10 13 16 51	18 18 18 1	3 12 6 14	13 2 5
S 6 M 7 T 8	16 39	18 13 4 8 20 2 3 23 20 46 2 28		0 24 12 4 24 21		2 12 1 33	21 14 1 15 21 15 1 15 21 16 1 15	3 7 0 44	19 24 0 4	10 12 16 51	18 25 18 1	5 12 0 14	16 2 5
W 9 T 10 F 11	17 12 17 28	20 27 1 27	5 41 3 11 6 7 3 10	1 23 38 4 4 2	24 0 31 33 0 32	2 8 1 32 2 7 1 32	21 17 1 15 21 18 1 15 21 19 1 15	3 5 0 44 3 5 0 44	19 24 0 4 19 24 0 4	10 11 16 52 10 11 16 52	18 27 18 1 18 28 18 1	7 11 57 14 8 11 55 14	19 2 5 20 2 5
S 12 S 13	17 59 18 14	14 13 1 41 10 49 2 37	7 4 3 7 7 34 3 4	7 22 40 3 29 21 4 22 19 3 17 21	49 0 33 57 0 34	2 4 1 32 2 2 1 32	21 20 1 15 21 21 1 15	3 3 0 44 3 2 0 44	19 23 0 4 19 23 0 4	10 11 16 52 10 10 16 53	18 28 18 1 18 28 18 2	9 11 52 14 0 11 50 14	22 2 6 23 2 6
M14 T 15 W16 T 17	18 29 18 44 18 58 19 12	6 59 3 27 2 50 4 9 1 s29 4 40 5 50 4 58	8 38 2 57 9 12 2 53	3 21 13 2 38 22	2 11 0 35 2 19 0 35	1 59 1 31	21 23 1 14 21 24 1 14	3 1 0 44 3 0 0 44 3 0 0 45 2 59 0 45	19 23 0 4 19 23 0 4	10 10 16 53 10 10 16 53	18 30 18 2	2 11 47 14 3 11 45 14	26 2 6 27 2 6
F 18 S 19	19 25	10 1 5 2	10 22 2 42		2 32 0 36	1 56 1 30	-	2 58 0 45	19 22 0 4	10 9 16 54	18 38 18 2 18 41 18 2	4 11 41 14	29 2 6
S 20 M21 T 22		19 25 3 41	11 35 2 29 12 13 2 22 12 51 2 15	2 19 17 1 27 22	2 51 0 37	1 55 1 30 1 54 1 30 1 53 1 29	21 29 1 14	2 56 0 45	19 21 0 4	10 9 16 55	18 43 18 2 18 45 18 2 18 47 18 2	7 11 36 14	32 2 7
W23 T 24 F 25	20 28 20 40 20 51	19 32 0 26			8 0 39				19 21 0 4	10 8 16 55	18 48 18 2 18 48 18 2 18 48 18 3	9 11 31 14	36 2 7
S 26 S 27 M28	21 12		15 29 1 40 16 8 1 30	0 17 9 0 3 23	3 24 0 40	1 50 1 28	21 33 1 13 21 34 1 13		19 20 0 4	10 8 16 56	18 48 18 3 18 48 18 3	2 11 26 14	39 2 7
T 29 W30	21 23 21 32 21 42 21n51	0n23 4 39 5 21 5 1		0 16 32 0 23 23 0 16 15 0 35 23	3 33 0 41 3 37 0 42		21 36 1 13	2 51 0 45 2 50 0 45	19 19 0 4 19 19 0 4 19 19 0 4 19 18 0s 4	10 8 16 57 10 8 16 57	18 49 18 3 18 50 18 3 18 51 18 3 18n53 18n3	3 11 22 14 4 11 20 14	41 2 8 42 2 8

Julian Day Number = 2301915.5, Delta T = 102.82 sec Ecliptic obliquity = $23^{\circ}29'28$, Nutation = - $0^{\circ}00'15$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}01'22$, Lahiri = $18^{\circ}08'23$ Greg. Calendar

JUNE 1590 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)ţ(¥	Р	n	v	Ç	ę k	Day
F 1	16 36 23	9∏56'58	23843	29 8 5	16°R 5	19耳 7	7°R55	16耳53	24) 39	3 Ω 43	13 Y 55	5°R33	6 Ω 53	7 m) 17	16824	F 1
S 2	16 40 20	10°54'22	7 Ⅱ 18	1 I 8	15 8 55	19°47	7 ≙ 54	17° 1	24°41	3°45	13°56	5 Ω 24	6°50	7°23	16°28	S 2
S 3	16 44 16	11°51'45	20°37	3°13	15°47	20°27	7°54	17° 9	24°42	3°46	13°57	5°16	6°46	7°30	16°32	S 3
M 4	16 48 13	12°49'07	3936	5°20	15°42	21° 8	7°54	17°17	24°43	3°48	13°58	5°10	6°43	7°37	16°36	M 4
T 5	16 52 9	13°46'28	16°17	7°29	15°39	21°48	7°D54	17°24	24°45	3°49	13°59	5° 6	6°40	7°43	16°40	T 5
W 6	16 56 6	14°43'48	28°40	9°38	15°D39	22°28	7°54	17°32	24°46	3°51	14° 0	5° 4	6°37	7°50	16°44	W 6
T 7	17 0 3	15°41'08	10 Ω 48	11°49	15°40	23° 8	7°54	17°40	24°47	3°53	14° 0	5°D 4	6°34	7°57	16°48	T 7
F 8	17 3 59	16°38'26	22°46	14° 0	15°45	23°48	7°54	17°48	24°48	3°54	14° 1	5° 5	6°31	8° 3	16°52	F 8
S 9	17 7 56	17°35'44	4 m 37	16°11	15°51	24°28	7°55	17°56	24°49	3°56	14° 2	5° 6	6°27	8°10	16°56	S 9
S 10	17 11 52	18°33'00	16°27	18°23	15°59	25° 8	7°56	18° 4	24°50	3°58	14° 3	5°R 7	6°24	8°17	17° 0	S 10
M11	17 15 49	19°30'16	28°21	20°35	16°10	25°48	7°57	18°11	24°51	3°59	14° 3	5° 7	6°21	8°23	17° 3	M11
T 12	17 19 45	20°27'31	10 <u>₽</u> 23	22°47	16°22	26°28	7°58	18°19	24°52	4° 1	14° 4	5° 5	6°18	8°30	17° 7	T 12
W13	17 23 42	21°24'45	22°39	24°57	16°37	27° 8	8° 0	18°27	24°53	4° 3	14° 5	5° 1	6°15	8°37	17°11	W13
T 14	17 27 38	22°21'59	5 M 12	27° 7	16°53	27°48	8° 1	18°35	24°54	4° 4	14° 5	4°55	6°11	8°43	17°15	T 14
F 15	17 31 35	23°19'11	18° 4	29°16	17°12	28°28	8° 3	18°43	24°54	4° 6	14° 6	4°49	6° 8	8°50	17°18	F 15
S 16	17 35 32	24°16'24	1 √ 18	19524	17°32	29° 8	8° 5	18°51	24°55	4° 8	14° 7	4°42	6° 5	8°57	17°22	S 16
S 17	17 39 28	25°13'36	14°51	3°30	17°54	29°48	8° 7	18°58	24°56	4°10	14° 7	4°36	6° 2	9° 3	17°26	S 17
M18	17 43 25	26°10'47	28°43	5°34	18°18	0ഇ28	8° 9	19° 6	24°56	4°12	14° 8	4°31	5°59	9°10	17°29	M18
T 19	17 47 21	27° 7'58	12 る 49	7°37	18°43	1° 7	8°12	19°14	24°57	4°13	14° 8	4°28	5°56	9°17	17°33	T 19
W20	17 51 18	28° 5'09	27° 5	9°38	19°10	1°47	8°14	19°22	24°57	4°15	14° 9	4°26	5°52	9°23	17°36	W20
T 21	17 55 14	29° 2'20	11≈27	11°37	19°38	2°27	8°17	19°30	24°58	4°17	14° 9	4°D26	5°49	9°30	17°40	T 21
F 22	17 59 11	29°59'31	25°50	13°34	20° 8	3° 6	8°20	19°37	24°58	4°19	14°10	4°27	5°46	9°37	17°43	F 22
S 23	18 3 7	0956'41	10 米 10	15°29	20°40	3°46	8°23	19°45	24°59	4°21	14°10	4°28	5°43	9°43	17°47	S 23
S 24	18 7 4	1°53'52	24°25	17°23	21°12	4°26	8°26	19°53	24°59	4°23	14°11	4°29	5°40	9°50	17°50	S 24
M25	18 11 1	2°51'03	8 Y 33	19°14	21°46	5° 5	8°30	20° 1	24°59	4°25	14°11	4°R29	5°37	9°57	17°54	M25
T 26	18 14 57	3°48'15	22°32	21° 2	22°22	5°45	8°33	20° 8	25° 0	4°27	14°12	4°28	5°33	10° 3	17°57	T 26
W27	18 18 54	4°45'26	6821	22°49	22°58	6°24	8°37	20°16	25° 0	4°29	14°12	4°26	5°30	10°10	18° 0	W27
T 28	18 22 50	5°42'38	19°58	24°34	23°36	7° 4	8°41	20°24	25° 0	4°31	14°12	4°22	5°27	10°17	18° 4	T 28
F 29	18 26 47	6°39'50	3 Ⅱ 22	26°17	24°15	7°43	8°45	20°31	25° 0	4°33	14°13	4°18	5°24	10°23	18° 7	F 29
S 30	18 30 43	7937'02	16 Ⅱ 32	27957	24 8 55	8923	8 ≏ 49	20∏39	25°R 0	4Ω 35	14 Y 13	4Ω 14	5 Ω 21	10 m 30	18 8 10	S 30

Day	0	J)	ζ	5	ç)	d	7	2	ļ.	ħ	ì.);	j (4	7	E	2	ก	v	Ç	لح	5
	decl	decl l	at	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n59			19n23		15n45		23n45	0n43	1 s49		21n38	1 s13			19n18				18n55				
S 2	22 8	17 18	4 20	19 59	0 27	15 31		23 49	0 43	1 49	1 2/	21 39	1 12	2 48	0 45	19 18	0 4	10 7	16 58	18 58				
S 3	-	19 34		20 35					0 43	1 49	1 26		1 12	2 48		19 17			16 58			11 13		
M 4	-	20 46 20 51		21 9 21 42	0 5	15 7 14 56		23 5523 58	0 44 0 44	1 49 1 50	1 26 1 26		1 12 1 12	2 48 2 47	0 45 0 45	19 17 19 17	0 4		16 58 16 59		18 38 18 39		14 47	2 8 2 9
W 6		19 55		21 42	0n 5 0 16		1 42		0 44	1 50	1 25		1 12	2 47	0 45				16 59		18 40		14 48	2 9
T 7	22 43			22 41	0 26			24 4	0 45	1 50		21 43	1 12	2 46	-	19 16			16 59		18 40		14 50	2 9
F 8	22 49	-	1 34		0 36			24 6	0 46	1 51		21 44	1 12	2 46		19 16					18 41	-	14 51	2 9
S 9	22 55	12 12	2 33	23 32	0 46	14 25	2 18	24 8	0 46	1 51	1 25	21 45	1 12	2 45	0 45	19 15	0 4	10 7	17 0	19 2	18 42	11 2	14 52	2 9
S 10	23 0	8 30	3 25	23 54	0 55	14 20	2 26	24 10	0 46	1 52	1 24	21 46	1 12	2 45	0 45	19 15	0 4	10 7	17 0	19 2	18 43	11 0	14 53	2 9
M11	23 4	4 27	4 8	24 13	1 4	14 16	2 33	24 12	0 47	1 52	1 24	21 46	1 12	2 45	0 45	19 15	0 4	10 7	17 1	19 2	18 44	10 59	14 54	2 10
T 12	23 9	0 12		24 30	1 12			24 14	0 47	1 53		21 47	1 12	2 44		19 14				19 2		10 57		-
	23 13		-	24 43	1 20			24 15	0 48	1 54	1 24	-	1 12	2 44	0 45					19 3		10 55		2 10
T 14 F 15	23 16			24 54 25 2	1 27			24 16	0 48	1 55		21 49	1 12	2 44 2 43	0 45		0 4			19 5		10 53		2 10
	23 19 23 22	-	5 1 4 37		1 33 1 38			24 1724 18	0 48 0 49	1 56 1 57		21 49 21 50	1 11 1 11	2 43	0 46	19 13	0 4			19 6 19 8		10 51 10 49		2 10 2 10
S 17 M18	_	18 42 20 27		25 10 25 9	1 43 1 47			24 1924 19	0 49 0 50	1 58 1 59	1 22 1 22		1 11 1 11	2 43 2 43	0 46	19 12 19 12				19 9 19 10				
T 19	-	20 58	-		1 50			24 19	0 50	2 0	1 22		1 11	2 43			0 3			19 10				2 11
W20			0 40		1 53			24 19	0 50		1 22		1 11	2 42		-	0 3			19 12		-	-	2 11
T 21	23 29	18 0	0s38	24 53	1 54	14 21	3 28	24 19	0 51	2 3	1 21	21 54	1 11	2 42	0 46	19 10	0 3	10 8	17 4	19 12	18 51	10 40	15 2	2 11
F 22	23 29	14 44	1 54	24 43	1 56	14 25	3 32	24 18	0 51	2 4	1 21	21 54	1 11	2 42	0 46	19 10	0 3			19 11				2 11
S 23	23 29	10 35	3 3	24 30	1 56	14 30	3 35	24 18	0 51	2 6	1 21	21 55	1 11	2 42	0 46	19 10	0 3	10 8	17 5	19 11	18 53	10 37	15 4	2 12
S 24	23 29	5 53	4 0	24 16	1 56	14 36	3 38	24 17	0 52	2 7	1 21	21 56	1 11	2 42	0 46	19 9	0 3	10 8	17 5	19 11	18 54	10 35	15 5	2 12
M25	23 28		4 42		1 55			-	0 52	2 9	1 20		1 11	2 42	0 46		0 3			19 11				2 12
T 26	23 26	4n 3		23 42	1 53	-		24 14	0 53	2 10	1 20		1 11	2 42	0 46		0 3			19 11				2 12
W27 T 28	23 24			23 22	1 51	14 55		24 13	0 53	2 12	1 20		1 11	2 42	0 46		0 3	10 9		19 12				2 12
	23 22 23 19		-	23 1 22 39	1 48 1 44			24 1124 9	0 53 0 54	2 14 2 16		21 58 21 59	1 11	2 42 2 42	0 46		0 3 0 3			19 13 19 14				2 13 2 13
			-			15 11 15n19			0 54 0n54			21 39 21n59	1 s11			-, ,			- , ,					-
	23 19 23n16		-	22 39 22n15		-		24 9 24n 7		2 16 2 s 18				2 42 2 s42		19 / 19n 6			- , ,	19 14 19n15				

Julian Day Number = 2301946.5, Delta T = 102.68 sec Ecliptic obliquity = 23°29'27, Nutation = -0°00'15, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°01'27, Lahiri = 18°08'27Greg. Calendar

JULY 1590 GC 00:00 UT

																• • •
Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(¥	Р	ស	Ω	Ç	ę,	Day
S 1	18 34 40	8934'14	29∏28	29936	25 8 36	995 2	8 ≏ 54	20 Ⅱ 46	25°R 0	4 Ω 37	14Υ13	4°R10	5 Ω 17	10 m)37	18813	S 1
M 2	18 38 36	9°31'27	1295 9	1 Ω 12	26°18	9°41	8°58	20°54	25 米 0	4°39	14°14	4 Ω 8	5°14	10°43	18°16	M 2
T 3	18 42 33	10°28'39	24°37	2°46	27° 1	10°21	9° 3	21° 2	25° 0	4°41	14°14	4° 6	5°11	10°50	18°19	T 3
W 4	18 46 30	11°25'52	6 Ω 51	4°18	27°45	11° 0	9° 8	21° 9	25° 0	4°43	14°14	4°D 6	5° 8	10°57	18°22	W 4
T 5	18 50 26	12°23'05	18°54	5°48	28°30	11°39	9°13	21°17	24°59	4°45	14°14	4° 6	5° 5	11° 3	18°25	T 5
F 6	18 54 23	13°20'18	0 m 49	7°16	29°15	12°19	9°18	21°24	24°59	4°47	14°15	4° 8	5° 2	11°10	18°28	F 6
S 7	18 58 19	14°17'30	12°39	8°41	0П 2	12°58	9°23	21°32	24°59	4°49	14°15	4° 9	4°58	11°17	18°31	S 7
S 8	19 2 16	15°14'43	24°29	10° 5	0°49	13°37	9°29	21°39	24°59	4°51	14°15	4°11	4°55	11°23	18°34	S 8
M 9	19 6 12	16°11'56	6 ₽ 22	11°26	1°37	14°16	9°35	21°46	24°58	4°53	14°15	4°12	4°52	11°30	18°37	M 9
T 10	19 10 9	17° 9'09	18°24	12°45	2°25	14°55	9°40	21°54	24°58	4°56	14°15	4°R12	4°49	11°37	18°39	T 10
W11	19 14 5	18° 6'22	0 M .39	14° 1	3°15	15°35	9°46	22° 1	24°57	4°58	14°15	4°12	4°46	11°43	18°42	W11
T 12	19 18 2	19° 3'36	13°12	15°15	4° 5	16°14	9°52	22° 8	24°57	5° 0	14°15	4°10	4°42	11°50	18°45	T 12
F 13	19 21 59	20° 0'49	26° 6	16°27	4°56	16°53	9°58	22°16	24°56	5° 2	14°15	4° 9	4°39	11°57	18°47	F 13
S 14	19 25 55	20°58'03	9 ∡ 23	17°36	5°47	17°32	10° 5	22°23	24°55	5° 4	14°15	4° 7	4°36	12° 3	18°50	S 14
S 15	19 29 52	21°55'17	23° 5	18°43	6°39	18°11	10°11	22°30	24°55	5° 6	14°R15	4° 6	4°33	12°10	18°52	S 15
M16	19 33 48	22°52'32	7 云 10	19°47	7°32	18°50	10°18	22°37	24°54	5° 9	14°15	4° 4	4°30	12°17	18°55	M16
T 17	19 37 45	23°49'47	21°34	20°48	8°25	19°29	10°25	22°44	24°53	5°11	14°15	4° 4	4°27	12°23	18°57	T 17
W18	19 41 41	24°47'03	6≈13	21°46	9°19	20° 8	10°32	22°52	24°53	5°13	14°15	4°D 3	4°23	12°30	18°59	W18
T 19	19 45 38	25°44'19	21° 1	22°41	10°13	20°46	10°39	22°59	24°52	5°15	14°15	4° 4	4°20	12°37	19° 2	T 19
F 20	19 49 34	26°41'36	5) (48	23°33	11° 8	21°25	10°46	23° 6	24°51	5°17	14°15	4° 4	4°17	12°43	19° 4	F 20
S 21	19 53 31	27°38'54	20°30	24°22	12° 3	22° 4	10°53	23°13	24°50	5°20	14°15	4° 5	4°14	12°50	19° 6	S 21
S 22	19 57 28	28°36'13	5 Υ 1	25° 7	12°59	22°43	11° 0	23°19	24°49	5°22	14°15	4° 5	4°11	12°57	19° 8	S 22
M23	20 1 24	29°33'33	19°17	25°49	13°55	23°22	11°8	23°26	24°48	5°24	14°15	4° 6	4° 8	13° 3	19°10	M23
T 24	20 5 21	0 Ω 30'54	3 8 15	26°27	14°52	24° 1	11°16	23°33	24°47	5°26	14°15	4°R 6	4° 4	13°10	19°12	T 24
W25	20 9 17	1°28'17	16°54	27° 1	15°50	24°39	11°23	23°40	24°46	5°28	14°14	4° 6	4° 1	13°17	19°14	W25
T 26	20 13 14	2°25'40	0 Ⅱ 16	27°31	16°47	25°18	11°31	23°47	24°44	5°31	14°14	4° 5	3°58	13°24	19°16	T 26
F 27	20 17 10	3°23'05	13°21	27°57	17°45	25°57	11°39	23°53	24°43	5°33	14°14	4° 5	3°55	13°30	19°18	F 27
S 28	20 21 7	4°20'31	26°10	28°18	18°44	26°36	11°47	24° 0	24°42	5°35	14°14	4°D 5	3°52	13°37	19°20	S 28
S 29	20 25 3	5°17'58	8945	28°35	19°43	27°14	11°56	24° 7	24°41	5°37	14°13	4° 5	3°48	13°44	19°22	S 29
M30	20 29 0	6°15'26	21° 8	28°47	20°42	27°53	12° 4	24°13	24°39	5°40	14°13	4° 6	3°45	13°50	19°23	M30
T 31	20 32 57	7 Ω 12'55	3 Ω 21	28 \Omega 54	21 II 42	28932	12 ≏ 12	24 II 20	24) 38	5 Ω 42	14 Y 13	4°R 6	3 Ω 42	13 m 57	19 8 25	T 31

Day	0	D		ζ	5	ç)	C	3	2	+		ħ);	j (j	ŧ.	В		IJ	Ω	Ç	ķ	
	decl	decl la	ıt	decl	lat	decl	lat	decl	lat	decl	lat	dec	l lat		decl	lat	decl	lat	decl lat		decl	decl	decl	decl	lat
S 1 M 2	23n13 23 9			21n50 21 24	1n35 1 30	15n27 15 36	3 s 5 1 3 5 2	24n 5 24 3	0n54 0 55	2 s20 2 22	1n19 1 19	22n 22	0 1 s 0 1		2 s42 2 42		19n 6 19 5		10s10 17s 10 10 17		9n15 9 16		10n22 10 20		2 s13 2 13
T 3 W 4	23 5 23 0	-		20 57 20 29	1 24 1 18	-	3 53 3 54	24 0 23 57	0 55 0 55	2 24 2 26	1 18 1 18		1 1 1 1		2 42 2 42					-		19 1 19 2		15 11 15 12	2 13 2 14
T 5 F 6	22 55 22 49	13 25	2 22	20 0 19 31	1 11 1 4		3 54	23 5423 51	0 56 0 56	2 28 2 30	1 18 1 18	22	2 1 2 1	10	2 42 2 42	0 46	19 3	0 3	10 11 17	9 1	9 16		10 12	15 12 15 13	2 14 2 14
S 7	22 43		3 17	-	0 56			23 48	0 56	2 33	1 17		3 1		2 42								10 10		2 14
S 8 M 9	22 37 22 30	1 45	4 40		0 39	16 43	3 54		0 57 0 57	2 35 2 37	1 17	22	3 1 4 1	10	2 43 2 43	0 46	19 2	0 3	10 12 17	0 1	9 15	19 5	10 6	15 14 15 14	2 15 2 15
T 10 W11	22 23 22 16	6 48	5 16	17 30 16 59	0 30 0 21	17 3	3 52	23 36 23 32	0 57 0 58	2 40 2 43	1 17 1 16	22	4 1 5 1	10	2 43 2 43	0 46	19 1	0 3	10 12 17	1 1	9 15	19 7	10 3	15 15 15 16	2 15
T 12 F 13 S 14	22 8 22 0 21 51	14 34	4 54	16 28 15 57 15 26	0 11 0 1 0s10		3 51	23 28 23 23 23 18	0 58 0 58 0 59	2 45 2 48 2 50	1 16 1 16 1 16	22	5 1 6 1 6 1	10	2 43 2 44 2 44	0 47		0 3	10 13 17	12 1	9 16	19 8	9 59	15 16 15 17 15 17	2 15 2 16 2 16
S 15	21 42	19 51	3 28	14 55	0 21	17 43	3 48	23 14	0 59	2 53	1 15	22	7 1	10	2 44	0 47	18 59	0 3	10 14 17	12 1	9 16	19 10	9 55	15 17	2 16
M16 T 17	21 23	20 38	1 9	14 25 13 55	0 32 0 43	18 3	3 45	23 3	-	2 56 2 59	1 15	22	7 1	10	2 45 2 45			0 3	10 14 17	13 1	9 17	19 11	9 51	15 18 15 18	2 16
W18 T 19 F 20	21 3	15 59	1 33	13 25 12 56 12 27	0 55 1 7 1 19	18 23	3 41	22 52		-	1 15 1 14 1 14	22	8 1 8 1 9 1	10	2 45 2 46 2 46	0 47		0 3	10 15 17	14 1	9 17	19 13	9 47	15 19 15 19 15 20	2 17 2 17 2 17
S 21	20 32 20 41		3 50		1 31			22 47	1 1	3 11	1 14		9 1	- 1	2 46		18 56		10 13 17					15 20	2 17
S 22 M23	20 29 20 17	-		11 33 11 7	1 44 1 56	18 51 19 0		22 35 22 28	1 1 1 1	3 14 3 17	1 14 1 14	22 ± 22 1	9 1 0 1	- 1	2 47 2 47		18 55 18 55							15 20 15 21	2 18 2 18
T 24 W25	20 5 19 52			10 42 10 19	2 9 2 22	19 9 19 18		22 22 22 15	1 2 1 2	3 20 3 24		22 10 22 10			2 48 2 48		18 54 18 54							15 21 15 21	2 18 2 18
T 26 F 27		18 23	4 45 4 6	9 36		19 34	3 22	22 1	1 2	3 27 3 30	1 13	22 1	1 1	10	2 49 2 49	0 47	18 53 18 53	0 3	10 18 17	17 1	9 17	19 19	9 32	15 22 15 22	2 19 2 19
S 28 S 29			3 152 16		2 593 12			21 5421 47		3 34 3 37		22 1		10	2 50 2 50		18 52 18 51		10 18 17 10 19 17					15 2215 22	2 192 19
M30 T 31			1 11 0s 4			19 57 20n 4		21 40 21n32		3 40 3 s44		22 12 22n12		10 10	2 51 2 s51		18 51 18n50	-	10 19 17 10 s20 17 s	-				15 23 15n23	2 19 2 s20

Julian Day Number = 2301976.5, Delta T = 102.56 sec Ecliptic obliquity = $23^{\circ}29'27$, Nutation = - $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}01'31$, Lahiri = $18^{\circ}08'31$ Greg. Calendar

AUGUST 1590 GC 00:00 UT

-	0.1		_	· ·		_	_					_	_	-		n
Day	Sid.t	0	D	ğ	φ	♂	4	ħ)/(¥	Р	B	ນ	Ç	ę,	Day
W 1	20 36 53	8Ω 10'25	15 Ω 24	28°R55	22 II 42	299510	12 ≏ 21	24∏26	24°R37	5 Ω 44	14°R12	4°R 6	3⋒39	14MD 4	19826	W 1
T 2	20 40 50	9° 7'56	27°21	$28\Omega52$	23°42	29°49	12°30	24°32	24 米 35	5°46	14 Y 12	4Ω 5	3°36	14°10	19°28	T 2
F 3	20 44 46	10° 5'28	9 m 12	28°43	24°43	$0\Omega 28$	12°39	24°39	24°34	5°48	14°12	4° 5	3°33	14°17	19°29	F 3
S 4	20 48 43	11° 3'01	21° 1	28°29	25°44	1° 6	12°47	24°45	24°32	5°51	14°11	4° 4	3°29	14°24	19°31	S 4
S 5	20 52 39	12° 0'35	2 ≙ 51	28° 9	26°45	1°45	12°56	24°51	24°31	5°53	14°11	4° 3	3°26	14°30	19°32	S 5
M 6	20 56 36	12°58'10	14°44	27°44	27°46	2°23	13° 6	24°57	24°29	5°55	14°10	4° 2	3°23	14°37	19°33	M 6
T 7	21 0 32	13°55'46	26°46	27°14	28°48	3° 2	13°15	25° 3	24°27	5°57	14°10	4° 1	3°20	14°44	19°35	T 7
W 8	21 4 29	14°53'23	8 M .59	26°39	29°51	3°40	13°24	25° 9	24°26	6° 0	14° 9	4° 0	3°17	14°50	19°36	W 8
T 9	21 8 26	15°51'01	21°28	26° 0	0953	4°19	13°34	25°15	24°24	6° 2	14° 9	4°D 0	3°14	14°57	19°37	T 9
F 10	21 12 22	16°48'40	4 √ 18	25°17	1°56	4°57	13°43	25°21	24°22	6° 4	14° 8	4° 1	3°10	15° 4	19°38	F 10
S 11	21 16 19	17°46'20	17°31	24°30	2°59	5°35	13°53	25°27	24°21	6° 6	14° 8	4° 2	3° 7	15°10	19°39	S 11
S 12	21 20 15	18°44'01	1 ਰ 11	23°41	4° 2	6°14	14° 3	25°33	24°19	6° 8	14° 7	4° 3	3° 4	15°17	19°40	S 12
M13	21 24 12	19°41'43	15°17	22°49	5° 6	6°52	14°12	25°38	24°17	6°10	14° 7	4° 4	3° 1	15°24	19°41	M13
T 14	21 28 8	20°39'26	29°48	21°57	6°10	7°31	14°22	25°44	24°15	6°13	14° 6	4°R 4	2°58	15°30	19°41	T 14
W15	21 32 5	21°37'11	14 ≈ 39	21° 5	7°14	8° 9	14°32	25°50	24°13	6°15	14° 5	4° 4	2°54	15°37	19°42	W15
T 16	21 36 1	22°34'57	29°44	20°15	8°18	8°47	14°42	25°55	24°11	6°17	14° 5	4° 3	2°51	15°44	19°43	T 16
F 17	21 39 58	23°32'45	14) (53	19°26	9°22	9°26	14°53	26° 0	24° 9	6°19	14° 4	4° 1	2°48	15°50	19°43	F 17
S 18	21 43 55	24°30'34	29°57	18°41	10°27	10° 4	15° 3	26° 6	24° 7	6°21	14° 3	3°59	2°45	15°57	19°44	S 18
S 19	21 47 51	25°28'25	14 Y 47	18° 0	11°32	10°42	15°13	26°11	24° 5	6°23	14° 3	3°56	2°42	16° 4	19°44	S 19
M20	21 51 48	26°26'17	29°17	17°24	12°38	11°20	15°24	26°16	24° 3	6°26	14° 2	3°54	2°39	16°10	19°45	M20
T 21	21 55 44	27°24'11	13 8 23	16°54	13°43	11°59	15°34	26°21	24° 1	6°28	14° 1	3°52	2°35	16°17	19°45	T 21
W22	21 59 41	28°22'08	27° 3	16°31	14°49	12°37	15°45	26°26	23°59	6°30	14° 0	3°D51	2°32	16°24	19°45	W22
T 23	22 3 37	29°20'06	10Ⅲ20	16°16	15°55	13°15	15°55	26°31	23°57	6°32	14° 0	3°52	2°29	16°31	19°46	T 23
F 24	22 7 34	0 m 18'06	23°14	16°D 8	17° 1	13°53	16° 6	26°36	23°55	6°34	13°59	3°53	2°26	16°37	19°46	F 24
S 25	22 11 30	1°16'08	5950	16° 8	18° 7	14°31	16°17	26°41	23°53	6°36	13°58	3°55	2°23	16°44	19°46	S 25
S 26	22 15 27	2°14'12	18°11	16°17	19°14	15°10	16°28	26°46	23°51	6°38	13°57	3°56	2°20	16°51	19°R46	S 26
M27	22 19 24	3°12'18	0 Ω 20	16°34	20°20	15°48	16°39	26°50	23°48	6°40	13°57	3°R57	2°16	16°57	19°46	M27
T 28	22 23 20	4°10'25	12°21	16°59	21°27	16°26	16°50	26°55	23°46	6°42	13°56	3°57	2°13	17° 4	19°46	T 28
W29	22 27 17	5° 8'35	24°15	17°33	22°34	17° 4	17° 1	26°59	23°44	6°44	13°55	3°55	2°10	17°11	19°46	W29
T 30	22 31 13	6° 6'46	6M) 6	18°15	23°41	17°42	17°12	27° 4	23°42	6°46	13°54	3°52	2° 7	17°17	19°45	T 30
F 31	22 35 10	7 m , 4'59	17 m 56	19 N 5	249549	18 Ω 20	17 ≏ 24	27 II 8	23 米 39	$6\Omega48$	13 Y 53	3 Ω 47	2 N 4	17 m)24	19 8 45	F 31

Day	0	D	ğ	·	ď	4	ħ)Å(并	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	decl lat
W 1 T 2	18n16 18 1	17n15 1n 2 14 23 2 6	8 11 3 5	6 20n11 3s 7 21 7 20 17 3 4 21	17 1 4		22 13 1 10	2 s52 0 s47 2 53 0 47	18 49 0 3	10 21 17 19	19n16 19n23 19 17 19 23	9n22 9 20	15 23 2 20
F 3 S 4	17 45 17 30	10 57 3 3 7 7 3 52		7 20 23 3 0 21 6 20 29 2 57 21	0 1 5		22 13 1 10 22 13 1 10	2 53 0 47 2 54 0 47		10 22 17 19	19 17 19 24 19 17 19 25	9 18 9 16	
S 5 M 6 T 7	17 14 16 57 16 41	3 1 4 31 1s13 4 59 5 27 5 14	8 0 4 2 8 2 4 3 8 7 4 3		44 1 5	4 6 1 11		2 54 0 47 2 55 0 47 2 56 0 47		10 22 17 20	19 17 19 26 19 17 19 26 19 18 19 27	9 14 9 12 9 10	15 24 2 21
W 8 T 9 F 10		9 32 5 16 13 18 5 2 16 34 4 34	8 25 4 4		17 1 6	4 17 1 10		2 56 0 47 2 57 0 47 2 58 0 47		10 24 17 21		9 8 9 6	15 24 2 22 15 24 2 22 15 24 2 22
S 11	15 32	19 5 3 50	8 53 4 4	6 20 56 2 31 19	59 1 6	4 25 1 10	22 15 1 10	2 59 0 47	18 44 0 3	10 25 17 22	19 17 19 30	9 2	15 24 2 22
S 12 M13 T 14	14 57	20 37 2 52 20 55 1 42 19 51 0 24	9 32 4 3		50 1 6 40 1 7 31 1 7			2 59 0 47 3 0 0 47 3 1 0 47	18 43 0 3		19 17 19 31 19 17 19 32 19 17 19 32	9 0 8 58 8 56	
W15 T 16 F 17	14 20 14 1 13 42	17 24 0s58 13 44 2 17 9 8 3 27	10 18 4 2 10 43 4 1 11 9 4		11 1 7	4 41 1 9 4 45 1 9 4 49 1 9	22 16 1 10	3 2 0 47 3 2 0 47 3 3 0 48	18 42 0 3	10 27 17 23	19 17 19 33 19 17 19 34 19 18 19 35	8 54 8 52 8 50	15 24 2 24
S 18 S 19	13 23 13 3		11 36 3 5	1 21 2 2 3 18	51 1 8	4 53 1 9	22 16 1 10	3 4 0 48		10 28 17 24	19 18 19 35 19 19 19 36	8 48 8 46	15 24 2 24
M20 T 21	12 44 12 24	6 21 5 14 10 57 5 11	12 28 3 2 12 52 3	1 20 59 1 55 18 4 20 56 1 51 18	30 1 8 20 1 8	5 1 1 8 5 6 1 8	22 16 1 10 22 16 1 10	3 6 0 48 3 6 0 48	18 40 0 3 18 39 0 3	10 29 17 24 10 30 17 24	19 19 19 37 19 20 19 37	8 44 8 42	15 23 2 25 15 23 2 25
W22 T 23 F 24	12 4 11 44 11 23	17 52 4 14	13 38 2 2			0 1.1 1	22 16 1 10	3 7 0 48 3 8 0 48 3 9 0 48		10 31 17 25	19 20 19 38 19 20 19 39 19 19 19 40	8 40 8 38 8 36	15 23 2 25
S 25				2 20 42 1 35 13				3 10 0 48			19 19 19 40	8 34	
S 26 M27 T 28	10 21	19 48 0 20	14 43 1 1		26 1 9 15 1 10 3 1 10	5 31 1 7	22 17 1 10		18 37 0 3 18 36 0 3 18 36 0 3	10 33 17 26	19 19 19 41 19 18 19 42 19 19 19 42	8 32 8 30 8 28	15 22 2 26
W29 T 30 F 31		15 11 1 49 11 52 2 47	14 59 0 4 15 2 0 2	0 20 19 1 18 16 3 20 12 1 14 16 7 20n 4 1s 9 16	5 52 1 10 5 40 1 10	5 40 1 7 5 45 1 7	22 17 1 11	3 13 0 48 3 14 0 48	18 35 0 3	10 34 17 26 10 35 17 27	19 19 19 43 19 20 19 44 19n21 19n45	8 26 8 24 8n22	15 21 2 27 15 21 2 27

Julian Day Number = 2302007.5, Delta T = 102.42 sec Ecliptic obliquity = $23^{\circ}29'28$, Nutation = - $0^{\circ}00'13$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}01'35$, Lahiri = $18^{\circ}08'36$ Greg. Calendar

SEPTEMBER 1590 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(¥	Р	n	v	Ç	Ŷ,	Day
S 1	22 39 6	8 mg 3'13	29 Mp 45	20 N 2	25956	18 Ω 58	17 ≏ 35	27 I 12	23°R37	6 Ω 50	13°R52	3°R41	2 N 0	17 m /31	19°R45	S 1
S 2	22 43 3	9° 1'29	11 ≏ 37	21° 6	27° 4	19°36	17°47	27°16	23 米 35	6°52	13 Y 51	3 Ω 34	1°57	17°37	19844	S 2
M 3	22 46 59	9°59'47	23°34	22°18	28°12	20°14	17°58	27°20	23°32	6°54	13°50	3°28	1°54	17°44	19°44	M 3
T 4	22 50 56	10°58'07	5 M 38	23°35	29°20	20°52	18°10	27°24	23°30	6°56	13°49	3°23	1°51	17°51	19°43	T 4
W 5	22 54 53	11°56'28	17°51	24°58	$0\Omega 28$	21°30	18°21	27°28	23°28	6°58	13°48	3°18	1°48	17°57	19°42	W 5
T 6	22 58 49	12°54'51	0 √ 19	26°26	1°37	22° 8	18°33	27°32	23°25	7° 0	13°48	3°16	1°45	18° 4	19°42	T 6
F 7	23 2 46	13°53'15	13° 4	27°58	2°45	22°46	18°45	27°36	23°23	7° 2	13°47	3°D15	1°41	18°11	19°41	F 7
S 8	23 6 42	14°51'41	26°10	29°35	3°54	23°24	18°56	27°39	23°21	7° 3	13°46	3°15	1°38	18°17	19°40	S 8
S 9	23 10 39	15°50'09	9 ප 41	1 m p 15	5° 3	24° 2	19°8	27°43	23°18	7° 5	13°45	3°17	1°35	18°24	19°39	S 9
M10	23 14 35	16°48'38	23°38	2°57	6°12	24°40	19°20	27°46	23°16	7° 7	13°44	3°18	1°32	18°31	19°38	M10
T 11	23 18 32	17°47'09	8≈ 2	4°42	7°21	25°18	19°32	27°49	23°13	7° 9	13°43	3°R18	1°29	18°38	19°37	T 11
W12	23 22 28	18°45'42	22°51	6°29	8°30	25°56	19°44	27°53	23°11	7°11	13°42	3°17	1°25	18°44	19°36	W12
T 13	23 26 25	19°44'16	7 ∺ 58	8°18	9°40	26°34	19°56	27°56	23° 9	7°12	13°41	3°13	1°22	18°51	19°35	T 13
F 14	23 30 22	20°42'53	23°15	10° 7	10°49	27°12	20° 8	27°59	23° 6	7°14	13°39	3° 8	1°19	18°58	19°34	F 14
S 15	23 34 18	21°41'31	8 Ƴ 31	11°58	11°59	27°50	20°21	28° 2	23° 4	7°16	13°38	3° 1	1°16	19° 4	19°33	S 15
S 16	23 38 15	22°40'11	23°36	13°49	13° 9	28°27	20°33	28° 4	23° 1	7°18	13°37	2°53	1°13	19°11	19°31	S 16
M17	23 42 11	23°38'53	8 8 20	15°40	14°19	29° 5	20°45	28° 7	22°59	7°19	13°36	2°46	1°10	19°18	19°30	M17
T 18	23 46 8	24°37'38	22°38	17°31	15°29	29°43	20°57	28°10	22°57	7°21	13°35	2°40	1° 6	19°24	19°29	T 18
W19	23 50 4	25°36'25	6 II 26	19°22	16°39	0 m 21	21°10	28°12	22°54	7°22	13°34	2°36	1° 3	19°31	19°27	W19
T 20	23 54 1	26°35'15	19°45	21°12	17°49	0°59	21°22	28°15	22°52	7°24	13°33	2°35	1° 0	19°38	19°26	T 20
F 21	23 57 57	27°34'06	2938	23° 2	19° 0	1°37	21°35	28°17	22°49	7°26	13°32	2°D35	0°57	19°44	19°24	F 21
S 22	0 1 54	28°33'00	15°10	24°52	20°11	2°14	21°47	28°19	22°47	7°27	13°31	2°35	0°54	19°51	19°22	S 22
S 23	0 5 50	29°31'57	27°24	26°41	21°21	2°52	22° 0	28°21	22°45	7°29	13°30	2°R36	0°51	19°58	19°21	S 23
M24	0 9 47	0 ჲ 30'55	9Ω26	28°29	22°32	3°30	22°12	28°23	22°42	7°30	13°29	2°36	0°47	20° 4	19°19	M24
T 25	0 13 44	1°29'56	21°19	0 ≏ 17	23°43	4° 8	22°25	28°25	22°40	7°32	13°27	2°34	0°44	20°11	19°17	T 25
W26	0 17 40	2°28'59	3 m 9	2° 4	24°54	4°45	22°37	28°27	22°37	7°33	13°26	2°30	0°41	20°18	19°15	W26
T 27	0 21 37	3°28'04	14°58	3°50	26° 5	5°23	22°50	28°28	22°35	7°35	13°25	2°23	0°38	20°25	19°13	T 27
F 28	0 25 33	4°27'11	26°48	5°35	27°17	6° 1	23° 3	28°30	22°33	7°36	13°24	2°13	0°35	20°31	19°11	F 28
S 29	0 29 30	5°26'20	8 ≏ 41	7°19	28°28	6°38	23°15	28°31	22°30	7°37	13°23	2° 2	0°31	20°38	19° 9	S 29
S 30	0 33 26	6 ₽ 25'32	20 ॒ 39	9 ₾ 3	29₽40	7 m 16	23 <u>₽</u> 28	28耳33	22 米 28	7 Ω 39	13 Y 22	1 Ω 49	0 Ω 28	20 m 45	19 8 7	S 30

Day	0	D	ğ	φ	♂	4	ħ)Å(并	Р	v v	ţ	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
S 1	8n34	4n 3 4n18	14n58 On	8 19n56 1s 5	16n17 1n11	5 s 5 4 1 n 7	22n17 1s11	3 s16 0 s48	18n34 0s 3	10 s 36 17 s 27	19n22 19n45	8n20	15n20 2 s28
S 2	8 12	0s11 4 48	14 51 0 2	22 19 47 1 1	16 5 1 11	5 58 1 6	22 17 1 11	3 17 0 48	18 33 0 3	10 36 17 27	19 24 19 46	8 18	15 20 2 28
M 3	7 50		14 40 0 3		15 53 1 11	6 3 1 6		3 18 0 48					15 20 2 28
T 4	7 28		14 26 0 4		-	6 7 1 6		3 19 0 48			19 27 19 47	-	15 19 2 28
W 5	7 6	12 23 5 1	14 9 0 5		15 29 1 11	6 12 1 6		3 20 0 48			19 28 19 48		15 19 2 29
T 6	-				15 17 1 11	6 16 1 6		3 21 0 48			19 28 19 49		15 18 2 29
F 7 S 8	-		13 25 1 1		15 5 1 12	6 21 1 6		3 22 0 48			19 28 19 50		15 18 2 29
3 0	3 39		12 58 1 2	25 18 44 0 37	14 53 1 12	6 25 1 6	22 17 1 11	3 23 0 48	18 30 0 3	10 40 17 29	19 28 19 50	8 5	15 17 2 29
S 9	5 36	-	12 29 1 3		-	6 30 1 6			18 30 0 3		19 28 19 51		15 17 2 30
M10	-		11 57 1 3		14 28 1 12	6 35 1 5		3 25 0 48			19 28 19 52		10 10 2 50
T 11			-		14 15 1 12	6 39 1 5		3 26 0 48			19 28 19 52		15 16 2 30
W12	4 27	15 34 1 44	10 46 1 4		14 2 1 12	6 44 1 5		3 27 0 48					15 15 2 30
T 13	4 4	11 19 2 56	10 8 1 4		13 49 1 13	6 48 1 5		3 27 0 48					15 15 2 31
F 14 S 15	3 41 3 18	6 18 3 56 0 54 4 40			13 37 1 13 13 24 1 13	6 53 1 5 6 58 1 5		3 28 0 48 3 29 0 48			19 30 19 55 19 32 19 55		15 14 2 31 15 14 2 31
S 16	2 55	4n29 5 3			13 11 1 13	7 3 1 5		3 30 0 48					15 13 2 31
M17	2 32	9 29 5 6	,		12 58 1 13	7 7 1 5		3 31 0 48			19 35 19 57		15 13 2 32
T 18	_	13 49 4 49	6 37 1 4		12 44 1 13	7 12 1 5		3 32 0 48			19 36 19 57		15 12 2 32
W19 T 20	-	17 14 4 16 19 37 3 29	5 51 1 4 5 6 1 4		12 31 1 13 12 18 1 14	7 17 1 4 7 21 1 4		3 33 0 48 3 34 0 48			19 37 19 58 19 38 19 59		15 11 2 32 15 11 2 32
F 21	0 58		4 19 1 4		12 18 1 14	7 26 1 4		3 35 0 48			19 38 19 59		15 10 2 33
S 22	0 35		3 33 1 3			7 31 1 4		3 36 0 48				7 36	
												,	
S 23	-	20 16 0 28	2 46 1 3		11 37 1 14	7 36 1 4		3 37 0 48				7 34	/
M24 T 25	0 s12 0 36	18 31 0n37 15 59 1 39	1 59 1 3 1 12 1 2	30 14 24 0 23 26 14 4 0 27	11 24 1 14 11 10 1 14	7 40 1 4 7 45 1 4		3 38 0 48 3 39 0 48	-			7 32 7 30	
W26		13 39 1 39	0 25 1 2	-	-	7 50 1 4		3 40 0 48				7 27	
T 27	1 23	9 6 3 26	0 23 1 2 0s22 1 1			7 55 1 4						7 25	
F 28	1 46	5 3 4 7	1 9 1 1			7 59 1 4		3 42 0 48				7 23	
S 29	2 10	0 48 4 38		5 12 39 0 39			22 17 1 12		18 22 0 2			7 21	
S 30	2 s33	3 s30 4n57	2 s42 0n5	59 12n17 0n42	10n 1 1n15		22n17 1s12			10051 17021	10n49 20n 6	7n10	
3 30	2 S3 3	3 830 4n3 /	2842 Uno	39 12N1/ UN42	10n 1 1n15	os 9 In 4	22n1/ 1S12	5 S45 US48	10H2Z US Z	10s51 17s31	19048 200 6	/119	15n 4 2s35

Julian Day Number = 2302038.5, Delta T = 102.29 sec Ecliptic obliquity = $23^{\circ}29'29$, Nutation = - $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}01'39$, Lahiri = $18^{\circ}08'40$ Greg. Calendar

OCTOBER 1590 GC 00:00 UT

00.0	DEN 1	Jo uc													00.0	0 0.
Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(¥	В	S.	v	Ç	ę,	Day
M 1	0 37 23	7 ≏ 24'45	2 M .44	10 ≏ 46	0 m 51	7 m 54	23 ≏ 41	28∏34	22°R26	7 Ω 40	13°R21	1°R37	0 Ω 25	20 m 51	19°R 5	M 1
T 2	0 41 19	8°24'01	14°55	12°28	2° 3	8°31	23°54	28°35	22) 23	7°41	13 Y 19	1 Q 26	0°22	20°58	198 3	T 2
W 3	0 45 16	9°23'18	27°16	14° 9	3°15	9° 9	24° 7	28°36	22°21	7°43	13°18	1°17	0°19	21° 5	19° 1	W 3
T 4	0 49 13	10°22'37	9 ∡ 748	15°49	4°27	9°47	24°20	28°37	22°19	7°44	13°17	1°10	0°16	21°11	18°58	T 4
F 5	0 53 9	11°21'58	22°33	17°29	5°39	10°24	24°32	28°38	22°17	7°45	13°16	1° 6	0°12	21°18	18°56	F 5
S 6	0 57 6	12°21'21	5 る 36	19° 8	6°51	11° 2	24°45	28°38	22°14	7°46	13°15	1° 5	0° 9	21°25	18°54	S 6
S 7	1 1 2	13°20'46	18°59	20°46	8° 3	11°39	24°58	28°39	22°12	7°47	13°14	1°D 5	0° 6	21°31	18°51	S 7
M 8	1 4 59	14°20'12	2≈44	22°24	9°15	12°17	25°11	28°39	22°10	7°49	13°13	1°R 5	0° 3	21°38	18°49	M 8
T 9	1 8 55	15°19'40	16°54	24° 0	10°27	12°55	25°24	28°39	22° 8	7°50	13°11	1° 4	29959	21°45	18°46	T 9
W10	1 12 52	16°19'10	1 ∺ 28	25°37	11°40	13°32	25°37	28°40	22° 6	7°51	13°10	1° 1	29°57	21°52	18°44	W10
T 11	1 16 48	17°18'42	16°22	27°12	12°52	14°10	25°50	28°R40	22° 4	7°52	13° 9	0°56	29°53	21°58	18°41	T 11
F 12	1 20 45	18°18'15	1 Y 29	28°47	14° 5	14°47	26° 3	28°40	22° 1	7°53	13° 8	0°47	29°50	22° 5	18°38	F 12
S 13	1 24 42	19°17'51	16°41	0 M 21	15°17	15°25	26°16	28°40	21°59	7°54	13° 7	0°37	29°47	22°12	18°36	S 13
S 14	1 28 38	20°17'28	1847	1°54	16°30	16° 2	26°29	28°39	21°57	7°55	13° 6	0°26	29°44	22°18	18°33	S 14
M15	1 32 35	21°17'08	16°36	3°27	17°43	16°40	26°42	28°39	21°55	7°56	13° 4	0°15	29°41	22°25	18°30	M15
T 16	1 36 31	22°16'49	1 II 0	5° 0	18°56	17°17	26°56	28°39	21°53	7°56	13° 3	0° 5	29°37	22°32	18°27	T 16
W17	1 40 28	23°16'33	14°56	6°31	20° 9	17°55	27° 9	28°38	21°51	7°57	13° 2	299558	29°34	22°38	18°25	W17
T 18	1 44 24	24°16'20	28°21	8° 2	21°22	18°32	27°22	28°37	21°49	7°58	13° 1	29°54	29°31	22°45	18°22	T 18
F 19	1 48 21	25°16'08	119519	9°33	22°35	19° 9	27°35	28°36	21°48	7°59	13° 0	29°52	29°28	22°52	18°19	F 19
S 20	1 52 17	26°15'59	23°52	11° 3	23°48	19°47	27°48	28°36	21°46	8° 0	12°59	29°52	29°25	22°58	18°16	S 20
S 21	1 56 14	27°15'52	6 N 7	12°32	25° 2	20°24	28° 1	28°35	21°44	8° 0	12°58	29°51	29°22	23° 5	18°13	S 21
M22	2 0 11	28°15'47	18° 7	14° 1	26°15	21° 2	28°14	28°33	21°42	8° 1	12°57	29°51	29°18	23°12	18°10	M22
T 23	2 4 7	29°15'44	29°59	15°30	27°29	21°39	28°27	28°32	21°40	8° 2	12°55	29°48	29°15	23°19	18° 7	T 23
W24	2 8 4	0 M .15'44	11 M 48	16°57	28°42	22°16	28°40	28°31	21°39	8° 2	12°54	29°43	29°12	23°25	18° 4	W24
T 25	2 12 0	1°15'45	23°37	18°24	29°56	22°54	28°54	28°29	21°37	8° 3	12°53	29°34	29° 9	23°32	18° 1	T 25
F 26	2 15 57	2°15'49	5 <u>Ω</u> 30	19°51	1 ₽ 9	23°31	29° 7	28°28	21°35	8° 3	12°52	29°23	29° 6	23°39	17°58	F 26
S 27	2 19 53	3°15'55	17°29	21°17	2°23	24° 8	29°20	28°26	21°34	8° 4	12°51	29°10	29° 2	23°45	17°55	S 27
S 28	2 23 50	4°16'02	29°36	22°42	3°37	24°46	29°33	28°24	21°32	8° 4	12°50	28°56	28°59	23°52	17°52	S 28
M29	2 27 46	5°16'12	11 M .53	24° 6	4°51	25°23	29°46	28°22	21°30	8° 5	12°49	28°41	28°56	23°59	17°48	M29
T 30	2 31 43	6°16'23	24°18	25°30	6° 4	26° 0	29°59	28°20	21°29	8° 5	12°48	28°28	28°53	24° 5	17°45	T 30
W31	2 35 39	7 IL 16'36	6 ₹ 753	26M53	7 ≏ 18	26 m 37	0 M .12	28 Ⅱ 18	21) (27	8 N 6	12 Y 47	289517	28950	24 Mp 12	17842	W31

Day	0	D	ζ	<u> </u>	ρ		ď	4	2	ļ	ħ	ì)	f((Р	n	Ω	Ç	ď	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
M 1 T 2	2 s57 3 20	7 s43 5n 11 39 4 5			-	0n45 0 48	9n47 9 33	1n15 1 15	8s14 8 19	1n 3		1 s12 1 12	3 s44 3 45		-	0 s 2 0 2				7n17 7 15	15n 3	2 s35 2 35
W 3		15 10 4 3		0 40		0 51	9 19	1 15	8 23	1 3		1 12	3 46		18 21	0 2				7 13		2 35
T 4		18 4 3 5		0 34	-	0 54	9 5	1 15	8 28	1 3		1 12	3 47		18 20	0 2				7 10		2 36
F 5			9 6 28		-	0 57	8 51	1 15	8 33	1 3		1 12	3 48 3 49		18 20	0 2					14 59	2 36 2 36
	4 54			0 21	9 56	0 59	8 37	1 16		1 3		1 12				0 2					14 59	
S 7 M 8	5 17 5 40	21 5 1 19 44 0s	4 7 55 9 8 38	0 14 0 7	9 32 9 7	1 2 1 4	8 22 8 8	1 16 1 16		1 3		1 12 1 12	3 50 3 51		18 19 18 19		10 54 17 3 10 54 17 3				14 58 14 57	2 36
T 9	6 3		23 9 20		8 42	1 7	7 54	1 16		1 3		1 12	3 51							. –	14 56	2 37
W10	6 26	13 22 2 3		0s 7	8 16	1 9	7 39	1 16		1 3		1 12	3 52		18 19	0 2				6 57	14 55	2 37
T 11	6 49	8 42 3 3		0 14	7 50	1 11	7 25	1 16	-	1 3		1 12	3 53			0 2			20 13		14 54	2 37
F 12 S 13	7 12 7 34	3 25 4 2 2n 5 4 5	-	0 20 0 27	7 24 6 58	1 14 1 16	7 10 6 56	1 16 1 16		1 3		1 12 1 12	3 54 3 55		18 18 18 18	0 2 0 2	10 56 17 3 10 56 17 3		20 14		14 53 14 52	2 37 2 37
								-													-	
S 14 M15	7 57 8 19	7 25 5	1 12 42 49 13 20	0 34	6 32	1 18 1 20	6 41 6 27	1 16 1 16	9 16 9 21	1 3		1 12 1 12	3 55 3 56		18 18 18 17	0 2 0 2	10 57 17 3 10 57 17 3		20 15	-	14 51 14 51	2 38
T 16	,	16 11 4 1		0 48	5 38	1 22	6 12	1 16	-	1 3		1 13	3 57		18 17	0 2					14 50	2 38
W17	9 4	19 6 3 3	34 14 35	0 54	5 11	1 23	5 58	1 16	9 30	1 3	22 16	1 13	3 58	0 47	18 17	0 2	10 58 17 3	1 20 12	20 17	6 42	14 49	2 38
T 18		20 50 2 3		1 1	4 44	1 25	5 43	1 17	9 35	1 2		1 13	3 58		18 17	0 2					14 48	2 38
F 19 S 20		21 24 1 3 20 51 0 3	36 15 46 32 16 21	1 8 1 14	4 16	1 27 1 28	5 28 5 14	1 17 1 17	9 40 9 45	1 2		1 13 1 13	3 59 4 0		18 17 18 16	0 2 0 2	10 59 17 3 10 59 17 3				14 47 14 46	2 38 2 39
S 21																						
M22		19 19 0n3 16 56 1 3	33 16 55 35 17 27	1 20 1 26	3 21 2 53	1 30 1 31	4 59 4 44	1 17 1 17	9 49 9 54	1 2		1 13 1 13	4 1	0 47 0 47	18 16 18 16	0 2 0 2					14 45 14 44	2 39 2 39
T 23	11 14			1 33	2 25	1 32	4 30	1 17	9 59	1 2	1	1 13	4 2		18 16	0 2		20 14			14 43	2 39
W24			22 18 31	1 38	1 57	1 34	4 15	1 17	10 3	1 2		1 13	4 3		18 16	0 2		20 15			14 42	2 39
T 25 F 26	11 56	6 16 4	4 19 1	1 44	1 29	1 35	4 0	1 17	10 8	1 2		1 13	4 3		18 16	0 2					14 41	2 39
S 27	12 17 12 38		34 19 30 53 19 58	1 50 1 55	1 0 0 32	1 36 1 37	3 45 3 31	1 17 1 17	10 13 10 17	1 2		1 13 1 13	4 4 4	,	18 16 18 15	0 2 0 2	11 1 17 3 11 1 17 3				14 40 14 39	2 40 2 40
S 28	12 58		0 20 26		0 3	1 38	3 16		10 22	1 2		1 13				0 2					14 38	2 40
M29		-	52 20 52	-	0 s25	1 39	3 1		10 22	1 2		1 13	4 6		18 15	0 2					14 37	2 40
T 30	13 38	14 31 4 3	30 21 17	2 10	0 54	1 39	2 46		10 31	1 2		1 13	4 6	0 47	18 15	0 2				6 14	14 36	2 40
W31	13 s58	17 s38 3n5	55 21 s41	2s15	1 s22	1n40	2n32	1n17	10s36	1n 2	22n16	1 s 1 3	4s 7	0 s47	18n15	0 s 2	11s 2 17s2	20n33	20n26	6n12	14n35	2 s40

Julian Day Number = 2302068.5, Delta T = 102.16 sec Ecliptic obliquity = $23^{\circ}29'29$, Nutation = - $0^{\circ}00'16$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}01'44$, Lahiri = $18^{\circ}08'44$ Greg. Calendar

NOVEMBER 1590 GC 00:00 UT

11012	DEIX 3	LJJU UC													00.0	0 0.
Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(¥	В	S.	Ω	Ç	ķ	Day
T 1	2 39 36	8 M 16'51	19 ∡ ³39	28 TL 15	8 ჲ 32	27 m 15	0 M 25	28°R16	21°R26	8 N 6	12°R46	28°R 9	289647	24 m 19	17°R39	T 1
F 2	2 43 33	9°17'07	2 る 35	29°35	9°46	27°52	0°38	28耳14	21 米 25	8° 6	12 Y 45	2895 4	28°43	24°26	17 8 36	F 2
S 3	2 47 29	10°17'25	15°45	0 ∡ 755	11° 0	28°29	0°51	28°11	21°23	8° 7	12°44	28° 2	28°40	24°32	17°32	S 3
S 4	2 51 26	11°17'45	29° 8	2°14	12°15	29° 6	1° 5	28° 9	21°22	8° 7	12°43	28°D 1	28°37	24°39	17°29	S 4
M 5	2 55 22	12°18'06	12≈49	3°31	13°29	29°43	1°18	28° 6	21°21	8° 7	12°42	28°R 2	28°34	24°46	17°26	M 5
T 6	2 59 19	13°18'28	26°47	4°47	14°43	0 ჲ 21	1°31	28° 4	21°19	8° 7	12°41	28° 1	28°31	24°52	17°23	T 6
W 7	3 3 15	14°18'51	11) (3	6° 1	15°57	0°58	1°44	28° 1	21°18	8° 7	12°40	27°58	28°28	24°59	17°19	W 7
T 8	3 7 12	15°19'16	25°36	7°13	17°11	1°35	1°57	27°58	21°17	8° 8	12°39	27°53	28°24	25° 6	17°16	T 8
F 9	3 11 8	16°19'43	10 Y 21	8°24	18°26	2°12	2° 9	27°55	21°16	8° 8	12°38	27°46	28°21	25°12	17°13	F 9
S 10	3 15 5	17°20'10	25°12	9°31	19°40	2°49	2°22	27°52	21°15	8° 8	12°37	27°36	28°18	25°19	17°10	S 10
S 11	3 19 2	18°20'39	10 8 0	10°37	20°55	3°26	2°35	27°49	21°14	8°R 8	12°36	27°25	28°15	25°26	17° 6	S 11
M12	3 22 58	19°21'10	24°37	11°39	22° 9	4° 3	2°48	27°45	21°13	8° 8	12°35	27°14	28°12	25°33	17° 3	M12
T 13	3 26 55	20°21'43	8 Ⅱ 55	12°37	23°24	4°40	3° 1	27°42	21°12	8° 8	12°34	27° 5	28° 8	25°39	17° 0	T 13
W14	3 30 51	21°22'17	22°49	13°32	24°38	5°17	3°14	27°39	21°11	8° 7	12°33	26°58	28° 5	25°46	16°57	W14
T 15	3 34 48	22°22'52	69517	14°23	25°53	5°54	3°27	27°35	21°10	8° 7	12°33	26°53	28° 2	25°53	16°53	T 15
F 16	3 38 44	23°23'30	19°18	15° 9	27° 7	6°31	3°39	27°31	21°10	8° 7	12°32	26°51	27°59	25°59	16°50	F 16
S 17	3 42 41	24°24'09	1 N 56	15°49	28°22	7° 8	3°52	27°28	21° 9	8° 7	12°31	26°D51	27°56	26° 6	16°47	S 17
S 18	3 46 37	25°24'50	14°14	16°22	29°37	7°45	4° 5	27°24	21° 8	8° 7	12°30	26°52	27°53	26°13	16°44	S 18
M19	3 50 34	26°25'32	26°17	16°49	0 M .51	8°22	4°18	27°20	21° 8	8° 6	12°29	26°R52	27°49	26°19	16°40	M19
T 20	3 54 31	27°26'16	8 M p11	17° 8	2° 6	8°59	4°30	27°16	21° 7	8° 6	12°29	26°52	27°46	26°26	16°37	T 20
W21	3 58 27	28°27'01	20° 1	17°19	3°21	9°36	4°43	27°12	21° 7	8° 6	12°28	26°49	27°43	26°33	16°34	W21
T 22	4 2 24	29°27'48	1 ≏ 52	17°R20	4°36	10°13	4°55	27° 8	21° 6	8° 5	12°27	26°44	27°40	26°40	16°31	T 22
F 23	4 6 20	0 ҂ 28'37	13°48	17°11	5°51	10°49	5° 8	27° 4	21° 6	8° 5	12°26	26°37	27°37	26°46	16°28	F 23
S 24	4 10 17	1°29'27	25°52	16°52	7° 5	11°26	5°20	27° 0	21° 5	8° 5	12°26	26°27	27°34	26°53	16°25	S 24
S 25	4 14 13	2°30'18	8 M 8	16°21	8°20	12° 3	5°33	26°56	21° 5	8° 4	12°25	26°17	27°30	27° 0	16°21	S 25
M26	4 18 10	3°31'11	20°37	15°40	9°35	12°40	5°45	26°51	21° 5	8° 4	12°24	26° 6	27°27	27° 6	16°18	M26
T 27	4 22 6	4°32'05	3 ∡ 18	14°47	10°50	13°17	5°57	26°47	21° 5	8° 3	12°24	25°57	27°24	27°13	16°15	T 27
W28	4 26 3	5°33'00	16°13	13°45	12° 5	13°53	6°10	26°43	21° 4	8° 3	12°23	25°49	27°21	27°20	16°12	W28
T 29	4 30 0	6°33'56	29°20	12°35	13°20	14°30	6°22	26°38	21° 4	8° 2	12°22	25°43	27°18	27°27	16° 9	T 29
F 30	4 33 56	7 .7 34'53	12 る 38	11 ~ 17	14 M .35	15 ♀ 7	6MJ34	26 Ⅱ 34	21) 4	8 Ω 1	12 Y 22	259540	279514	27 m 33	16 8 6	F 30

Day	0	D	ğ	φ	♂	4	ħ)Å(卉	Р	v v	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
T 1 F 2 S 3		21 18 2 10	22 s 4 2 s 19 22 26 2 23 22 46 2 26	3 2 20 1 41	2 2 1 17	10 45 1 2		4 8 0 47	18 15 0 2		20n35 20n27 20 36 20 28 20 36 20 28	6 7	14n34 2 s40 14 33 2 41 14 32 2 41
S 4 M 5 T 6 W 7 T 8		14 54 2 26 10 38 3 27	23 23 2 32 23 40 2 34 23 55 2 36	2 3 46 1 42 4 4 14 1 42 5 4 43 1 42	1 18 1 17 1 3 1 17 0 48 1 17	10 54 1 2 10 59 1 2 11 3 1 2 11 8 1 2 11 12 1 2	22 16 1 13 22 16 1 13 22 16 1 13	4 9 0 47 4 10 0 47 4 10 0 47	18 15 0 2 18 15 0 2	11 3 17 28 11 4 17 28 11 4 17 28	20 36 20 29 20 36 20 30 20 36 20 30 20 37 20 31 20 38 20 32	6 1 5 58 5 56	14 31 2 41 14 30 2 41 14 29 2 41 14 28 2 41 14 27 2 41
F 9 S 10	16 45 17 3	0 19 4 48	24 21 2 38 24 32 2 39	5 40 1 42	0 18 1 17	11 17 1 2 11 21 1 2	22 15 1 13	4 11 0 47	18 15 0 2 18 15 0 2	11 4 17 27	20 39 20 32 20 41 20 33	5 52	14 26 2 41 14 25 2 42
S 11 M12 T 13 W14 T 15 F 16 S 17	18 40	14 37 4 29 18 7 3 46	24 55 2 35 25 0 2 32 25 2 2 29 25 3 2 24	7	0 26 1 17 0 40 1 17 0 55 1 17 1 10 1 17 1 25 1 17	11 26 1 2 11 30 1 2 11 34 1 2 11 39 1 2 11 43 1 2 11 47 1 2 11 52 1 2	22 15 1 13 22 15 1 13 22 15 1 13 22 15 1 13 22 15 1 13	4 12 0 47 4 12 0 47 4 13 0 46 4 13 0 46 4 13 0 46	18 15 0 2 18 15 0 2	11 4 17 27 11 5 17 27 11 5 17 26 11 5 17 26 11 5 17 26	20 43 20 33 20 45 20 34 20 47 20 35 20 49 20 35 20 49 20 36 20 50 20 37 20 50 20 37	5 45 5 43 5 41 5 38 5 36	14 24 2 42 14 23 2 42 14 22 2 42 14 21 2 42 14 20 2 42 14 19 2 42 14 18 2 42
S 18 M19 T 20 W21 T 22 F 23 S 24	19 9 19 24 19 38 19 51 20 5 20 18 20 30	15 8 2 31 11 39 3 22 7 43 4 5 3 30 4 37 0s53 4 58	24 36 1 43 24 24 1 31	10 16 1 38 10 43 1 37 3 11 9 1 36 11 36 1 35 7 12 1 1 34	2 8 1 17 2 23 1 17 2 37 1 17 2 52 1 17 3 6 1 17		22 15 1 13 22 15 1 13 22 15 1 13 22 15 1 13 22 15 1 13	4 14 0 46 4 14 0 46 4 14 0 46 4 14 0 46 4 15 0 46	18 15 0 2 18 15 0 2 18 15 0 2 18 15 0 2	11 5 17 25 11 5 17 25 11 5 17 25 11 5 17 24 11 5 17 24	20 50 20 38 20 50 20 39 20 50 20 39 20 50 20 40 20 51 20 40 20 53 20 41 20 54 20 42	5 29 5 27 5 25 5 23 5 20	14 17 2 42 14 16 2 42 14 15 2 42 14 14 2 42 14 13 2 42 14 12 2 43 14 11 2 43
	21 6 21 17 21 27	13 28 4 38 16 53 4 3 19 32 3 16 21 12 2 17	23 10 0 27 22 46 0 8 22 19 0n12 21 50 0 32	3 13 42 1 29 2 14 7 1 27	3 50 1 17 4 4 1 17 4 18 1 17 4 33 1 17	_	22 15 1 13 22 14 1 13 22 14 1 13	4 15 0 46 4 15 0 46 4 15 0 46 4 15 0 46	18 16 0 2 18 16 0 2 18 16 0 2 18 16 0 2	11 5 17 23 11 5 17 23 11 5 17 22	21 2 20 44 21 3 20 45	5 14 5 11 5 9 5 7	14 8 2 43 14 7 2 43

 $\label{eq:Julian Day Number = 2302099.5, Delta T = 102.03 sec} \\ Ecliptic obliquity = 23°29'29, Nutation = -0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°01'48, Lahiri = 18°08'48Greg. Calendar$

DECEMBER 1590 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(¥	В	n	v	Ç	Ŗ	Day
S 1	4 37 53	8 ~ 35'51	26 궁 6	9°R56	15 M 50	15 ≏ 43	6 M .46	26°R29	21°D 4	8°R 1	12°R21	25°D39	279511	27 m /40	16°R 3	S 1
S 2	4 41 49	9°36'49	9≈45	8 ₹ 33	17° 5	16°20	6°58	26∏24	21) 4	8 Ω 0	12 Y 21	25940	27° 8	27°47	16 8 0	S 2
M 3	4 45 46	10°37'49	23°33	7°11	18°20	16°57	7°10	26°20	21° 4	7°59	12°20	25°41	27° 5	27°53	15°57	M 3
T 4	4 49 42	11°38'49	7) €31	5°54	19°35	17°33	7°22	26°15	21° 4	7°59	12°20	25°R42	27° 2	28° 0	15°55	T 4
W 5	4 53 39	12°39'49	21°38	4°43	20°51	18°10	7°34	26°10	21° 5	7°58	12°19	25°42	26°59	28° 7	15°52	W 5
T 6	4 57 35	13°40'50	5 ℃ 54	3°40	22° 6	18°46	7°46	26° 6	21° 5	7°57	12°19	25°40	26°55	28°13	15°49	T 6
F 7	5 1 32	14°41'51	20°14	2°47	23°21	19°23	7°58	26° 1	21° 5	7°56	12°18	25°36	26°52	28°20	15°46	F 7
S 8	5 5 29	15°42'53	4 8 37	2° 5	24°36	19°59	8°10	25°56	21° 6	7°55	12°18	25°30	26°49	28°27	15°43	S 8
S 9	5 9 25	16°43'56	18°56	1°34	25°51	20°36	8°21	25°51	21° 6	7°54	12°17	25°24	26°46	28°34	15°41	S 9
M10	5 13 22	17°44'59	3 II 7	1°14	27° 6	21°12	8°33	25°46	21° 6	7°53	12°17	25°18	26°43	28°40	15°38	M10
T 11	5 17 18	18°46'03	17° 4	1°D 5	28°21	21°48	8°44	25°41	21° 7	7°52	12°17	25°12	26°40	28°47	15°36	T 11
W12	5 21 15	19°47'07	09544	1° 6	29°37	22°25	8°56	25°36	21° 7	7°51	12°16	25° 8	26°36	28°54	15°33	W12
T 13	5 25 11	20°48'12	14° 3	1°17	0 х 52	23° 1	9° 7	25°31	21° 8	7°50	12°16	25° 6	26°33	29° 0	15°30	T 13
F 14	5 29 8	21°49'18	27° 0	1°36	2° 7	23°37	9°19	25°26	21° 9	7°49	12°16	25°D 5	26°30	29° 7	15°28	F 14
S 15	5 33 5	22°50'24	9 Ω 38	2° 4	3°22	24°14	9°30	25°22	21° 9	7°48	12°15	25° 6	26°27	29°14	15°26	S 15
S 16	5 37 1	23°51'31	21°58	2°38	4°37	24°50	9°41	25°17	21°10	7°47	12°15	25° 8	26°24	29°21	15°23	S 16
M17	5 40 58	24°52'39	4 Mp 4	3°19	5°53	25°26	9°52	25°12	21°11	7°46	12°15	25°10	26°20	29°27	15°21	M17
T 18	5 44 54	25°53'47	16° 0	4° 5	7° 8	26° 2	10° 3	25° 7	21°12	7°45	12°15	25°11	26°17	29°34	15°19	T 18
W19	5 48 51	26°54'56	27°52	4°56	8°23	26°38	10°14	25° 2	21°13	7°44	12°14	25°R12	26°14	29°41	15°16	W19
T 20	5 52 47	27°56'06	9 ≏ 44	5°52	9°38	27°14	10°25	24°57	21°14	7°43	12°14	25°11	26°11	29°47	15°14	T 20
F 21	5 56 44	28°57'16	21°41	6°52	10°54	27°50	10°36	24°52	21°15	7°41	12°14	25° 9	26° 8	29°54	15°12	F 21
S 22	6 0 40	29°58'26	3 M .48	7°55	12° 9	28°26	10°46	24°47	21°16	7°40	12°14	25° 6	26° 5	0요 1	15°10	S 22
S 23	6 4 37	0 궁 59'37	16° 8	9° 1	13°24	29° 2	10°57	24°42	21°17	7°39	12°14	25° 2	26° 1	0° 7	15° 8	S 23
M24	6 8 34	2° 0'49	28°44	10°10	14°40	29°38	11° 7	24°37	21°18	7°38	12°14	24°58	25°58	0°14	15° 6	M24
T 25	6 12 30	3° 2'01	11 ~ 38	11°21	15°55	0 M .14	11°18	24°32	21°19	7°36	12°14	24°54	25°55	0°21	15° 4	T 25
W26	6 16 27	4° 3'13	24°50	12°34	17°10	0°50	11°28	24°27	21°21	7°35	12°14	24°51	25°52	0°28	15° 2	W26
T 27	6 20 23	5° 4'25	8 궁 19	13°49	18°26	1°26	11°38	24°22	21°22	7°34	12°D14	24°49	25°49	0°34	15° 0	T 27
F 28	6 24 20	6° 5'37	22° 3	15° 6	19°41	2° 2	11°48	24°17	21°23	7°32	12°14	24°D49	25°46	0°41	14°59	F 28
S 29	6 28 16	7° 6'49	5≈59	16°25	20°56	2°38	11°59	24°13	21°25	7°31	12°14	24°49	25°42	0°48	14°57	S 29
S 30	6 32 13	8° 8'01	20° 5	17°44	22°12	3°13	12° 8	24° 8	21°26	7°29	12°14	24°50	25°39	0°54	14°55	S 30
M31	6 36 9	9る 9'12	4 ₩ 15	19 ∡ 5	23 × 27	3 M .49	12 M .18	24 I I 3	21 米 28	$7\Omega 28$	12 Y 14	24951	25936	1₽ 1	14854	M31

Day	0	J)	ζ	5	ç	2	d	7	2	+	ħ)į	j(j	ļ.		2	n	Ω	Ç	ķ
	decl	decl	at	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl lat
S 1	21 s47	21 s 1	0 s 2	20 s48	1n12	15 s18	1n23	5 s 1	1n17	12 s49	1n 3	22n14	1 s 1 2	4 s 1 5	0 s46	18n17	0 s 2	11s 5	17 s22	21n 3	20n46	5n 2	14n 5 2s43
S 2	21 56	19 4	1 15	20 17	1 31	15 41	1 21	5 15	1 17	12 53	1 3	22 14	1 12	4 15	0 46	18 17	0 2	11 5	17 21	21 3	20 47	5 0	14 4 2 43
M 3	-	15 59	2 25	19 46	1 49			5 29		12 57			1 12	4 15					17 21		20 47		14 3 2 43
T 4 W 5	22 14 22 22	11 58 7 15	3 27 4 17	19 18 18 52		16 25 16 47	1 18 1 16	5 43 5 57	1 17 1 17		_		1 12 1 12	4 15 4 15					17 21 17 20				14 2 2 43 14 1 2 43
T 6	22 30		4 52		2 29		1 14	6 11	1 17				1 12	4 14					17 20			4 51	_
F 7	22 37	3n10	5 8			17 29	1 12	6 25		13 12			1 12	4 14					17 20			4 49	-
S 8	22 43		5 6			17 49	1 10	6 39		13 16		22 14	1 12	4 14					17 19		20 50		13 59 2 43
S 9 M10		12 56 16 49	4 44 4 5	17 45 17 39	2 49	18 9 18 29	1 8 1 6	6 53 7 7		13 19 13 23	_		1 12 1 12	4 14 4 14	-	-			17 19 17 19		20 51 20 52		13 58 2 43 13 57 2 43
T 11	23 1	19 40	3 12			18 47	1 4	7 20		13 23			1 12	4 13					17 18		20 52		13 57 2 43
W12		21 20	2 9	17 37	2 52		1 2	7 34		13 30			1 12	4 13	0 45				17 18		20 53	4 37	13 56 2 43
T 13 F 14		21 45 20 58	1 0 0n10			19 24 19 41	1 0 0 58	7 48 8 1		13 34 13 37		22 13 22 13	1 12 1 12	4 13 4 13					17 18 17 17				13 55 2 43 13 54 2 43
S 15	23 18		1 19			19 41	0 56	8 15		13 41		22 13	1 11	4 13					17 17				13 54 2 43
S 16	23 21	16 27	2 22	18 10	2 37	20 14	0 54	8 28	1 15	13 44	1 4	22 13	1 11	4 12	0 45	18 20	0 2	11 3	17 17	21 9	20 55	4 28	13 53 2 43
M17	23 23	13 6	3 17	18 24		20 29	0 51	8 41	1 15	13 48		22 13	1 11	4 12	0 45				17 16		20 56		13 52 2 43
T 18	23 26		4 4	18 39		20 44	0 49	8 55		13 51		22 13	1 11	4 11	-				17 16		20 56		13 52 2 43
W19 T 20	23 27 23 28	5 7 0 46	4 39 5 3	18 55 19 12		20 59 21 13	0 47 0 44	9 8 9 21		13 55 13 58		22 13 22 13	1 11 1 11	4 11 4 10					17 15 17 15		20 57 20 58		13 51 2 43 13 51 2 43
F 21	23 29		5 13			21 26	0 42	9 34	1 15			22 13	1 11	4 10					17 15		20 58		13 50 2 43
S 22	23 29	7 57	5 10	19 48	1 54	21 39	0 40	9 47	1 15	14 4	1 4	22 13	1 11	4 10	0 45	18 22	0 1	11 1	17 14	21 10	20 59	4 14	13 49 2 43
S 23			4 53			21 50						22 13	1 11	4 9	-				17 14				13 49 2 43
M24 T 25	23 29 23 27	15 40 18 40	4 21 3 36	20 24 20 42	1 38	22 2 22 12		10 13 10 25		14 11 14 14		22 12 22 12	1 10 1 10		-				17 14 17 13			4 9	10 10 - 10
W26		20 46	2 38	-		22 22				14 17		22 12	1 10						17 13			4 5	
T 27	-	21 44	1 30	-		22 32				14 20			1 10		-				17 13			4 3	
F 28 S 29	23 21 23 18	21 26 19 48	0 15 1s 1			22 40 22 48	0 25	11 3 11 16		14 23 14 26		22 12 22 12	1 10 1 10						17 12 17 12				13 46 2 43 13 46 2 42
S 30		16 57	2 15			22 56		11 28		14 29		22 12	1 10			18 25			17 12				13 46 2 42
	-	13 s 5	-	22 s23		23 s 2		11 28 11 s40		14 29 14 s32		22 12 22n12	-		-	18 25 18n25					21 4 21n 4		13 46 2 42 13n45 2 s42

 $\label{eq:Julian Day Number = 2302129.5, Delta\ T = 101.91\ sec} \\ Ecliptic\ obliquity = 23°29'28, Nutation = -0°00'16, out-of-bounds\ declination\ in\ red \\$