

Astrodienst Ephemeris Tables for the year 1641

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 1641 GC 00:00 UT

UAIT	///// T	JTI UC													00.0	0 0 1
Day	Sid.t	0	D	ğ	Ş	♂	4	ħ)ұ(并	В	S.	Ω	Ç	ę,	Day
T 1	6 43 38	11궁 2'51	23 N 43	29る 0	6≈45	7 Υ 25	17 云 44	27≈11	6 M .43	26 M 40	0°R41	19°R44	18 M 27	25 8 48	25°R14	T 1
W 2	6 47 35	12° 4'01	6 M 47	29°17	8° 0	8° 2	17°58	27°16	6°45	26°41	0 Ⅱ 41	19 M .37	18°24	25°55	25 8 12	W 2
T 3	6 51 31	13° 5'10	20° 4	29°R23	9°15	8°39	18°12	27°22	6°47	26°43	0°40	19°32	18°21	26° 1	25°10	T 3
F 4	6 55 28	14° 6'20	3 ≏ 34	29°18	10°29	9°16	18°26	27°28	6°49	26°45	0°39	19°30	18°18	26° 8	25° 8	F 4
S 5	6 59 24	15° 7'29	17°19	29° 1	11°44	9°53	18°40	27°34	6°51	26°47	0°38	19°D29	18°14	26°14	25° 6	S 5
S 6	7 3 21	16° 8'39	1 M .19	28°32	12°58	10°30	18°54	27°40	6°53	26°48	0°37	19°30	18°11	26°21	25° 4	S 6
M 7	7 7 17	17° 9'49	15°34	27°52	14°13	11° 7	19° 8	27°46	6°55	26°50	0°37	19°R31	18° 8	26°28	25° 2	M 7
T 8	7 11 14	18°10'58	0 x ⁷ 3	27° 1	15°27	11°45	19°23	27°52	6°57	26°51	0°36	19°30	18° 5	26°34	25° 1	T 8
W 9	7 15 10	19°12'08	14°42	26° 0	16°42	12°22	19°37	27°59	6°58	26°53	0°35	19°28	18° 2	26°41	24°59	W 9
T 10	7 19 7	20°13'17	2 <u>9</u> °26	24°52	17°56	12°59	19°51	28° 5	7° 0	26°54	0°35	19°23	17°59	26°48	24°58	T 10
F 11	7 23 4	21°14'26	14중 9	23°38	19°10	13°37	20° 5	28°11	7° 2	26°56	0°34	19°15	17°55	26°54	24°56	F 11
S 12	7 27 0	22°15'34	28°41	22°21	20°25	14°14	20°19	28°17	7° 3	26°57	0°33	19° 5	17°52	27° 1	24°55	S 12
S 13	7 30 57	23°16'42	12≈57	21° 3	21°39	14°52	20°33	28°24	7° 5	26°59	0°33	18°54	17°49	27° 8	24°53	S 13
M14	7 34 53	24°17'48	26°50	19°46	22°53	15°29	20°47	28°30	7° 6	27° 0	0°32	18°43	17°46	27°14	24°52	M14
T 15	7 38 50	25°18'55	10 ∺ 17	18°33	24° 8	16° 7	21° 1	28°37	7° 8	27° 2	0°31	18°34	17°43	27°21	24°51	T 15
W16	7 42 46	26°20'00	23°19	17°25	25°22	16°44	21°15	28°43	7° 9	27° 3	0°31	18°27	17°39	27°28	24°50	W16
T 17	7 46 43	27°21'04	5 Υ 56	16°24	26°36	17°22	21°29	28°50	7°11	27° 4	0°30	18°22	17°36	27°34	24°49	T 17
F 18	7 50 39	28°22'07	18°13	15°32	27°50	18° 0	21°43	28°56	7°12	27° 6	0°30	18°20	17°33	27°41	24°48	F 18
S 19	7 54 36	29°23'09	0815	14°48	29° 4	18°38	21°58	29° 3	7°13	27° 7	0°29	18°D19	17°30	27°48	24°47	S 19
S 20	7 58 33	0≈24'10	12° 6	14°13	0 ∺ 18	19°15	22°12	29°10	7°14	27° 8	0°29	18°R19	17°27	27°54	24°46	S 20
M21	8 2 29	1°25'10	23°53	13°47	1°32	19°53	22°26	29°16	7°15	27°10	0°28	18°19	17°24	28° 1	24°45	M21
T 22	8 6 26	2°26'09	5 Ⅱ 41	13°30	2°46	20°31	22°40	29°23	7°16	27°11	0°28	18°18	17°20	28° 8	24°44	T 22
W23	8 10 22	3°27'06	17°35	13°21	4° 0	21° 9	22°54	29°30	7°17	27°12	0°27	18°14	17°17	28°14	24°44	W23
T 24	8 14 19	4°28'03	29°39	13°D21	5°14	21°47	23° 8	29°37	7°18	27°13	0°27	18° 8	17°14	28°21	24°43	T 24
F 25	8 18 15	5°28'58	119555	13°28	6°28	22°25	23°22	29°44	7°19	27°14	0°26	17°59	17°11	28°27	24°42	F 25
S 26	8 22 12	6°29'52	24°26	13°42	7°42	23° 3	23°36	29°51	7°20	27°15	0°26	17°47	17° 8	28°34	24°42	S 26
S 27	8 26 8	7°30'45	7 Ω 12	14° 3	8°55	23°41	23°49	29°57	7°21	27°16	0°26	17°34	17° 5	28°41	24°42	S 27
M28	8 30 5	8°31'37	20°13	14°30	10° 9	24°19	24° 3	0) 4	7°22	27°17	0°25	17°20	17° 1	28°47	24°41	M28
T 29	8 34 2	9°32'28	3 Mp 28	15° 2	11°23	24°57	24°17	0°11	7°22	27°18	0°25	17° 7	16°58	28°54	24°41	T 29
W30	8 37 58	10°33'18	16°54	15°39	12°36	25°35	24°31	0°18	7°23	27°19	0°25	16°57	16°55	29° 1	24°41	W30
T 31	8 41 55	11≈34'06	0 ჲ 30	16 ට 21	13 米 50	26 Y 13	24 궁 45	0 ∺ 25	7 M 24	27 ™ 20	0 Ⅱ 24	16 M .49	16M52	29 8 7	24841	T 31

Day	0	D	ζ	Į	φ		d	7	2	+	ħ	<u> </u>)	ł(,	(В		n	v	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
T 1 W 2	23 s 1 22 56	8n49 5s 4 30 4 5	6 20s24 3 20 4		20s14 19 55	1 s40 1 41	3n 1 3 17		22 s32 22 31		13 s55 13 53		13 s21 13 21	0n28 0 28		1n41 1 41	8n17 12 8 17 12	-				15n23 15 23	3 s50 3 50
T 3 F 4	22 50 22 44	0s 7 4 2 4 48 3 4			19 36 19 16	1 41 1 41	3 33 3 49	0 7	22 29 22 27		13 51 13 49		13 22 13 22		17 49 17 50	1 41 1 41	8 17 12 8 17 12					-	3 50 3 50
S 5	22 37		4 19 14		18 55	1 41	4 5		22 25		13 47		13 23			1 41	8 17 12						3 50
S 6 M 7	22 23	16 52 0 2	6 19 1 1 18 50	1 49	18 34 18 12	1 41 1 41	4 20 4 36	0 12	22 23 22 21		13 44 13 42		13 24 13 24		17 50 17 51	1 41 1 41	8 17 12 8 18 12						3 49 3 49
T 8 W 9 T 10	22 6	20 27 2 1	6 18 42 1 18 37	2 25	17 50 17 28	1 41 1 40	4 52 5 7	0 15	22 20 22 18	0 15	13 40 13 38	1 32	13 25 13 25	0 28	17 51	1 41	8 18 12 8 18 12	16 1	17 38	17 14	18 42	15 20	3 49 3 49
F 11 S 12	21 58 21 48 21 38	18 36 4	7 18 33 9 18 32 5 18 33	2 55	17 4 16 41 16 17	1 40 1 40 1 39	5 23 5 39 5 54	0 17	22 16 22 14 22 12	0 15	13 36 13 34 13 31	1 32	13 26 13 27 13 27	0 28		1 41 1 41 1 41	8 18 12 8 18 12 8 18 12	16 1	17 34	17 12	18 43	15 20	3 49 3 49 3 49
S 13 M14 T 15	21 28 21 18 21 7	12 8 5 7 53 5 3 22 4 4	2 18 36 1 18 40 2 18 45	3 24	15 52 15 27 15 2	1 39 1 38 1 37	6 10 6 25 6 41	0 19 0 20 0 21	22 10 22 8 22 6	0 15 0 15 0 15	13 27	1 32	13 28 13 28 13 28	0 28		1 41 1 41 1 41	8 18 12 8 18 12 8 18 12	15 1	17 26	17 10	18 45		3 49 3 48 3 48
W16 T 17	20 55 20 44	1n10 4 1 5 31 3 2	0 18 52 6 19 0	3 31 3 30	14 36 14 10	1 37 1 36	6 56 7 12	0 22 0 23	22 3 22 1	0 16 0 16	13 22 13 20	1 31 1 31	13 29 13 29	0 28 0 28	17 53 17 54	1 41	8 18 12 8 19 12	15 1 14 1	17 21 17 20	17 8 17 7	18 46 18 47	15 19 15 19	3 48 3 48
F 18 S 19	20 32 20 19	9 31 2 3 13 4 1 3	3 19 8 5 19 17		13 44 13 17	1 35 1 34	7 27 7 42		21 59 21 57		13 18 13 15		13 30 13 30		17 54 17 54	1 42 1 42	8 19 12 8 19 12				18 48 18 48		3 48 3 48
S 20 M21 T 22	20 6 19 53	18 18 0s3		3 11	12 50 12 22	1 33 1 31	7 58 8 13	0 27	21 55 21 53	0 16	13 13 13 10	1 31	13 30 13 31	0 28	17 55	1 42 1 42	8 19 12 8 19 12	13 1	17 19	17 3		15 19	3 48 3 47
W23	19 25		9 19 56	2 54	11 54 11 26	1 30	8 28 8 43	0 29	21 51 21 48	0 16 0 16	13 6	1 31		0 28	17 55	1 42		13 1	17 18	17 2	18 51	15 19 15 19	3 47
T 24 F 25 S 26		18 54 4	1 20 5 4 20 15 6 20 24	2 34	10 58 10 29 10 0	1 27 1 26 1 24	8 58 9 13 9 28	0 31	21 46 21 44 21 42	0 16 0 17 0 17		1 31	13 32 13 32 13 32	0 28	17 56	1 42 1 42 1 42	8 20 12 8 20 12 8 20 12	12 1		17 0	18 52	15 19 15 19 15 19	3 47 3 47 3 47
S 27			6 20 33		9 31	1 23	9 43		21 39		12 56		13 33			1 42	8 20 12				18 53		3 46
M28 T 29	18 10 17 54	10 1 5 5 46 4 4	0 20 41 9 20 49	2 1 1 50	9 2 8 32	1 21 1 19	9 58 10 13		21 37 21 35		12 53 12 51		13 33 13 33			1 42 1 42	-	11 1 11 1			18 54 18 55		3 46 3 46
W30 T 31	17 37 17 s21	1 11 4 2		1 39	8 2 7 s 3 2	1 17	10 27 10n42	0 35	21 32 21 s30	0 17	12 49 12 s46	1 31	13 33 13 s33	0 28	17 56 17 s57	1 42 1n42	8 21 12 8n21 12	11 1	16 56	16 55	18 55	15 19	3 46 3 s46

Julian Day Number = 2320423.5, Delta T = 49.66 sec Ecliptic obliquity = 23°29'03, Nutation = $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}43'46$, Lahiri = $18^{\circ}50'47$ Greg. Calendar

FEBRUARY 1641 GC 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ð	4	ħ)∤(¥	Р	₽.	v	Ç	Ŗ	Day
F 1	8 45 51	12≈34'54	14 ₽ 13	17중 6	15) 3	26 Y 51	24 궁 59	0 ∺ 32	7 M 24	27 M 21	0°R24	16°R44	16 M 49	29814	24°D41	F 1
S 2	8 49 48	13°35'41	28° 4	17°56	16°17	27°30	25°12	0°40	7°25	27°22	0Ⅲ24	16 M 42	16°45	29°21	24841	S 2
S 3	8 53 44	14°36'27	12 M 2	18°49	17°30	28° 8	25°26	0°47	7°25	27°23	0°24	16°41	16°42	29°27	24°41	S 3
M 4	8 57 41	15°37'11	26° 7	19°46	18°43	28°46	25°40	0°54	7°25	27°24	0°23	16°41	16°39	29°34	24°41	M 4
T 5	9 1 37	16°37'55	10 ∡ 17	20°45	19°57	29°24	25°54	1° 1	7°26	27°24	0°23	16°40	16°36	29°41	24°41	T 5
W 6	9 5 34	17°38'38	24°33	21°47	21°10	0 ප 2	26° 7	1° 8	7°26	27°25	0°23	16°37	16°33	29°47	24°42	W 6
T 7	9 9 3 1	18°39'20	8 궁 50	22°51	22°23	0°41	26°21	1°15	7°26	27°26	0°23	16°31	16°30	29°54	24°42	T 7
F 8	9 13 27	19°40'00	23° 5	23°58	23°36	1°19	26°34	1°22	7°26	27°26	0°23	16°21	16°26	0 I 1	24°43	F 8
S 9	9 17 24	20°40'39	7≈13	25° 7	24°49	1°57	26°48	1°30	7°26	27°27	0°23	16°10	16°23	0° 7	24°43	S 9
S 10	9 21 20	21°41'17	21° 9	26°18	26° 2	2°35	27° 2	1°37	7°R26	27°28	0°23	15°57	16°20	0°14	24°44	S 10
M11	9 25 17	22°41'53	4){ 49	27°30	27°15	3°14	27°15	1°44	7°26	27°28	0°23	15°44	16°17	0°20	24°45	M11
T 12	9 29 13	23°42'27	18° 8	28°45	28°28	3°52	27°28	1°51	7°26	27°29	0°23	15°33	16°14	0°27	24°45	T 12
W13	9 33 10	24°43'00	1 Y 5	0≈ 1	29°40	4°30	27°42	1°59	7°26	27°29	0°D23	15°23	16°11	0°34	24°46	W13
T 14	9 37 6	25°43'31	13°42	1°18	oΥ53	5° 9	27°55	2° 6	7°26	27°30	0°23	15°17	16° 7	0°40	24°47	T 14
F 15	9 41 3	26°44'00	25°59	2°37	2° 6	5°47	28° 8	2°13	7°26	27°30	0°23	15°13	16° 4	0°47	24°48	F 15
S 16	9 45 0	27°44'27	8 8 2	3°58	3°18	6°26	28°22	2°20	7°25	27°31	0°23	15°12	16° 1	0°54	24°49	S 16
S 17	9 48 56	28°44'53	19°55	5°20	4°31	7° 4	28°35	2°28	7°25	27°31	0°23	15°D12	15°58	1° 0	24°50	S 17
M18	9 52 53	29°45'16	1 Ⅱ 43	6°43	5°43	7°42	28°48	2°35	7°25	27°31	0°23	15°R12	15°55	1° 7	24°52	M18
T 19	9 56 49	0) €45'38	13°32	8° 7	6°55	8°21	29° 1	2°42	7°24	27°32	0°23	15°11	15°51	1°14	24°53	T 19
W20	10 0 46	1°45'58	25°27	9°33	8° 8	8°59	29°14	2°50	7°24	27°32	0°23	15° 8	15°48	1°20	24°54	W20
T 21	10 4 42	2°46'15	7934	10°59	9°20	9°38	29°27	2°57	7°23	27°32	0°23	15° 3	15°45	1°27	24°56	T 21
F 22	10 8 39	3°46'31	19°56	12°27	10°32	10°16	29°40	3° 4	7°22	27°32	0°24	14°56	15°42	1°34	24°57	F 22
S 23	10 12 35	4°46'45	2 Ω 37	13°56	11°44	10°54	29°53	3°12	7°22	27°32	0°24	14°46	15°39	1°40	24°59	S 23
S 24	10 16 32	5°46'56	15°37	15°27	12°55	11°33	0≈ 5	3°19	7°21	27°33	0°24	14°34	15°36	1°47	25° 0	S 24
M25	10 20 29	6°47'06	28°57	16°58	14° 7	12°11	0°18	3°26	7°20	27°33	0°24	14°22	15°32	1°54	25° 2	M25
T 26	10 24 25	7°47'14	12 m 34	18°30	15°19	12°50	0°31	3°33	7°19	27°33	0°25	14°11	15°29	2° 0	25° 4	T 26
W27	10 28 22	8°47'20	26°26	20° 4	16°30	13°28	0°43	3°41	7°19	27°R33	0°25	14° 2	15°26	2° 7	25° 5	W27
T 28	10 32 18	9) (47'24	10₽28	21≈38	17 Υ 42	148 6	0≈56	3) 48	7 M ₊18	27 M 33	0П25	13 M 55	15 M 23	2 Ⅱ 14	25 8 7	T 28

Day	0	D		ğ	5	φ)	С	7	2	+	ħ	l);	f(4	(Е	2	'n	v	Ç	Ł	(
	decl	decl lat	t	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	17s 4	8 s 7 2	2 s43	21s 7	1n17	7s 2	1 s 1 3	10n57	0n37	21 s27	0s17	12 s44	1 s 3 1	13 s34	0n29	17s57	1n42	8n21	12s10	16 s52	16 s53	18n56	15n19	3 s46
S 2	16 46	12 19 1	1 37	21 11	1 6	6 31	1 11	11 11	0 38	21 25	0 17	12 41	1 31	13 34	0 29	17 57	1 42	8 22	12 10	16 51	16 53	18 57	15 20	3 46
S 3	16 29	15 52 0	25	21 15	0 55	6 1	1 9	11 26	0 39	21 23	0 17	12 39	1 31	13 34	0 29	17 57	1 42	8 22	12 10	16 51	16 52	18 58	15 20	3 45
M 4				21 17	0 45	5 30		11 40		21 20		12 36		13 34		17 57	1 42	8 22	-		16 51			3 45
T 5	15 53	-		21 18	0 35	4 59	-	11 54		21 18		12 33		13 34		17 57	1 42	8 22	-		16 50			3 45
W 6	15 34			21 19 21 18	0 25 0 15	4 28 3 57		12 9 12 23		21 15 21 13		12 31 12 28		13 34 13 34		17 57 17 57	1 42 1 43	8 23 8 23	-		16 49 16 48		-	3 45 3 45
F 8				21 16		3 25		12 23		21 13		12 26		13 34		17 58	1 43	8 23	-		16 48		15 21	3 44
S 9				21 13		2 54		12 51		21 8		12 23		13 34		17 58	1 43				16 46		-	3 44
S 10	14 18	9 45 4	1 59	21 9	0 13	2 23	0.52	13 5	0 44	21 5	0.18	12 21	1 32	13 34	0.29	17 58	1 43	8 24	12 8	16 39	16 45	19 2	15 22	3 44
M11	13 58		1 44		0 22	1 51		13 18	0 44			12 18		13 34		17 58	1 43	8 24	-		16 44		15 22	3 44
T 12	13 39	0 48 4	1 14	20 57	0 30	1 20	0 47	13 32	0 45	21 0	0 19	12 16	1 32	13 34	0 29	17 58	1 43	8 24	12 7	16 32	16 43	19 3	15 22	3 44
W13	13 18	3n40 3	3 31	20 49	0 39	0 48	0 44	13 46	0 46	20 58	0 19	12 13	1 32	13 34	0 29	17 58	1 43	8 25	12 7	16 29	16 43	19 3	15 23	3 44
T 14	12 58			20 40	0 46	0 16	-			20 55		12 10		13 34		17 58	1 43	8 25			16 42		15 23	3 43
F 15			-	20 29	0 54	0n15		14 13		20 53		12 8		13 34		17 58	1 43	8 25	-		16 41		15 23	3 43
S 16	12 17	14 49 0	38	20 17	1 1	0 47	0 35	14 26	0 48	20 50	0 19	12 5	1 32	13 34	0 29	17 58	1 43	8 25	12 6	16 25	16 40	19 5	15 24	3 43
	11 56)s25	-	-	1 18		14 39		20 48		12 3		13 34		17 58	-	8 26	-		16 39		-	-
	11 35		/	19 50		1 50		14 52		20 45		12 0		13 33		17 58	1 43	8 26	-		16 38		15 25	3 43
T 19 W20	11 13 10 52	-		19 35 19 18	1 21 1 27	2 21 2 53		15 5 15 18		20 43 20 40		11 57 11 55		13 33 13 33		17 58 17 58	1 43 1 43	8 26 8 27			16 37 16 36		15 25 15 26	3 43 3 42
T 21	10 32			18 59	1 33	3 24		15 16		20 40		11 52		13 33		17 58	1 43	8 27			16 35		15 26	3 42
F 22				18 40	1 38	3 56		15 44		20 35		11 50		13 33		17 58	1 43	8 27			16 34		15 27	-
S 23			1 56	18 19	1 43	4 27		15 57		20 32		11 47		13 32		17 58	1 43	8 28			16 33		15 27	3 42
S 24	9 24	11 22 5	5 2	17 57	1 47	4 58	0 9	16 9	0 52	20 30	0 20	11 44	1 32	13 32	0 29	17 58	1 43	8 28	12 4	16 14	16 32	19 9	15 28	3 42
M25	9 2	7 17 4	1 53	17 33	1 51	5 29	0 6	16 21		20 27		11 42		13 32		17 58	1 44	8 28			16 31			3 42
T 26	8 40	2 45 4	1 27	17 8	1 55	6 0	0 3	16 34		20 24		11 39	1 32	13 32	0 29	17 58	1 44	8 29	12 3	16 8	16 31	19 10	15 29	3 42
W27	8 17	-		16 42	1 59	6 31				20 22		11 37		13 31		17 58	1 44	8 29	-		16 30			-
T 28	7 s55	6 s43 2	2 s48	16s14	2s 2	7n 2	0n 5	16n58	0n54	20s19	0 s21	11 s34	1 s32	13 s31	0n29	17 s58	1n44	8n29	12s 2	16s 3	16 s29	19n11	15n30	3 s41

Julian Day Number = 2320454.5, Delta T = 49.60 sec

Ecliptic obliquity = 23°29′03, Nutation = 0°00′14, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°43′51, Lahiri = 18°50′51Greg. Calendar

MARCH 1641 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(¥	Р	n	v	Ç	Ŷ,	Day
F 1	10 36 15	10) (47'26	24 <u>₽</u> 36	23≈14	18 Y 53	14845	1≈ 8	3 ∺ 55	7°R17	27°R33	0Д26	13°R51	15 M 20	2Д20	25 8 9	F 1
S 2	10 40 11	11°47'27	8 M 47	24°51	20° 4	15°23	1°21	4° 3	7 M .16	27 M 33	0°26	13°D50	15°16	2°27	25°11	S 2
S 3	10 44 8	12°47'26	22°58	26°29	21°16	16° 2	1°33	4°10	7°15	27°32	0°26	13 M .50	15°13	2°33	25°13	S 3
M 4	10 48 4	13°47'24	7 √ 7	28° 8	22°27	16°40	1°45	4°17	7°13	27°32	0°27	13°R50	15°10	2°40	25°16	M 4
T 5	10 52 1	14°47'20	21°13	29°48	23°38	17°18	1°58	4°24	7°12	27°32	0°27	13°50	15° 7	2°47	25°18	T 5
W 6	10 55 58	15°47'15	5 る 14	1 ∺ 30	24°48	17°57	2°10	4°31	7°11	27°32	0°28	13°49	15° 4	2°53	25°20	W 6
T 7	10 59 54	16°47'07	19°11	3°12	25°59	18°35	2°22	4°39	7°10	27°32	0°28	13°45	15° 1	3° 0	25°22	T 7
F 8	11 3 51	17°46'58	3≈ 0	4°56	27°10	19°14	2°34	4°46	7° 8	27°31	0°29	13°38	14°57	3° 7	25°25	F 8
S 9	11 7 47	18°46'48	16°41	6°41	28°20	19°52	2°46	4°53	7° 7	27°31	0°29	13°30	14°54	3°13	25°27	S 9
S 10	11 11 44	19°46'35	0) €10	8°27	29°31	20°31	2°57	5° 0	7° 6	27°31	0°30	13°20	14°51	3°20	25°30	S 10
M11	11 15 40	20°46'20	13°26	10°14	0 8 41	21° 9	3° 9	5° 7	7° 4	27°30	0°30	13°11	14°48	3°27	25°32	M11
T 12	11 19 37	21°46'04	26°26	12° 3	1°51	21°47	3°21	5°14	7° 3	27°30	0°31	13° 2	14°45	3°33	25°35	T 12
W13	11 23 33	22°45'45	9 Υ 10	13°52	3° 1	22°26	3°32	5°22	7° 1	27°30	0°31	12°55	14°42	3°40	25°38	W13
T 14	11 27 30	23°45'24	21°38	15°43	4°11	23° 4	3°44	5°29	7° 0	27°29	0°32	12°51	14°38	3°47	25°40	T 14
F 15	11 31 26	24°45'01	3 8 51	17°36	5°21	23°43	3°55	5°36	6°58	27°29	0°33	12°48	14°35	3°53	25°43	F 15
S 16	11 35 23	25°44'36	15°52	19°29	6°30	24°21	4° 7	5°43	6°56	27°28	0°33	12°D48	14°32	4° 0	25°46	S 16
S 17	11 39 20	26°44'09	27°44	21°24	7°40	25° 0	4°18	5°50	6°55	27°27	0°34	12°49	14°29	4° 7	25°49	S 17
M18	11 43 16	27°43'39	9∏33	23°20	8°49	25°38	4°29	5°57	6°53	27°27	0°35	12°50	14°26	4°13	25°52	M18
T 19	11 47 13	28°43'07	21°22	25°17	9°58	26°16	4°40	6° 4	6°51	27°26	0°35	12°52	14°22	4°20	25°55	T 19
W20	11 51 9	29°42'33	39917	27°15	11° 7	26°55	4°51	6°11	6°49	27°26	0°36	12°R52	14°19	4°27	25°58	W20
T 21	11 55 6	0 ℃ 41'57	15°24	29°14	12°16	27°33	5° 2	6°17	6°47	27°25	0°37	12°51	14°16	4°33	26° 1	T 21
F 22	11 59 2	1°41'18	27°47	1 Υ 14	13°25	28°11	5°12	6°24	6°46	27°24	0°38	12°48	14°13	4°40	26° 4	F 22
S 23	12 2 59	2°40'37	10 \O 30	3°15	14°34	28°50	5°23	6°31	6°44	27°23	0°38	12°43	14°10	4°47	26° 7	S 23
S 24	12 6 55	3°39'53	23°35	5°17	15°42	29°28	5°33	6°38	6°42	27°23	0°39	12°37	14° 7	4°53	26°11	S 24
M25	12 10 52	4°39'07	7 m 5	7°20	16°50	0 Π 7	5°44	6°45	6°40	27°22	0°40	12°31	14° 3	5° 0	26°14	M25
T 26	12 14 49	5°38'19	20°57	9°23	17°58	0°45	5°54	6°51	6°38	27°21	0°41	12°25	14° 0	5° 6	26°17	T 26
W27	12 18 45	6°37'29	5 ₾ 9	11°27	19° 6	1°23	6° 4	6°58	6°36	27°20	0°42	12°20	13°57	5°13	26°21	W27
T 28	12 22 42	7°36'37	19°35	13°31	20°14	2° 2	6°14	7° 5	6°33	27°19	0°43	12°16	13°54	5°20	26°24	T 28
F 29	12 26 38	8°35'43	4 M .10	15°34	21°21	2°40	6°24	7°11	6°31	27°18	0°43	12°14	13°51	5°26	26°28	F 29
S 30	12 30 35	9°34'47	18°48	17°37	22°29	3°18	6°34	7°18	6°29	27°17	0°44	12°D14	13°47	5°33	26°31	S 30
S 31	12 34 31	10 Y 33'49	3 ₹ 22	19 Y 40	23 8 36	3 II 56	6≈44	7 ∺ 24	6 M 27	27 M 16	0 Ⅱ 45	12 M .15	13 M .44	5 Ⅱ 40	26 8 35	S 31

Day	0	D	ζ	5	φ	С	7	2	+	ħ	l.);	ł(4	(Р		n	v	Ç	ď	5
	decl	decl lat	decl	lat d	ecl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl l	at	decl	decl	decl	decl	lat
F 1 S 2	7 s32 7 9	11 s 7 1 s 4 14 53 0 2	1 15 s45 7 15 15	-		17n10 17 22		20 s17 20 14	0 s21 0 21			13 s31 13 30			1n44 1 44	8n30 8 30		16s 2 16 1		19n11 19 12		3 s41 3 41
S 3 M 4			14 44 1 14 11	2 9 8 2 10 9	33 0 15 3 0 19	17 33 17 45	0 56 0 56	20 11 20 9	0 21 0 21	11 26 11 24		13 30 13 30			1 44 1 44	8 30 8 31				19 12 19 13		3 41 3 41
T 5 W 6	6 0	20 6 3	6 13 36 0 13 1	-	32 0 23 2 0 26	17 56	0 57	20 6	0 21 0 21	11 21 11 19	1 33	13 29 13 29	0 29	17 58 17 57	1 44 1 44	8 31	12 1	16 1	16 24	19 13 19 14	15 33	3 40 3 40
T 7 F 8	4 50	14 39 5	3 12 24 0 11 46	2 12 11	1 0 34	18 19 18 30		19 59	0 21 0 22		1 33	13 28 13 28	0 29		1 44	8 32	12 0	15 58		19 15	15 35	3 40 3 40
S 9 S 10	4 27 4 3	6 52 4 5		2 11 11 2 10 11	58 0 42	18 41 18 51	0 59	19 56 19 53	0 22		1 33	13 2713 27	0 29		1 44 1 44	8 33 8 33	12 0	15 5515 52	16 19	19 15	15 37	3 40 3 40
M11 T 12	3 40 3 16	2 27 4 2 2n 0 3 4	9 0	2 8 12 2 6 12	55 0 49	19 12	1 0	19 51 19 48	0 22 0 22	11 6 11 3	1 33	13 26	0 29	17 57 17 57	1 44	8 34	11 59	15 49 15 47	16 17	19 16	15 38	3 40 3 39
W13 T 14 F 15	2 53 2 29 2 5	6 16 2 5 10 10 1 5 13 35 0 4	7 29	2 3 13 2 0 13 1 56 14	50 0 57	19 23 19 33 19 43	1 0	19 46 19 43 19 41	0 22 0 22 0 23	10 58	1 34	13 25 13 25 13 24	0 29	17 57 17 56 17 56	1 44 1 44 1 45	8 34	11 59	15 45 15 43 15 43	16 16	19 17	15 40	3 39 3 39 3 39
S 16	1 42	16 21 0s1	5 53	1 52 14	44 1 5	19 53	1 1	19 38	0 23	10 53	1 34	13 24	0 29	17 56	1 45	8 35	11 58	15 43	16 14	19 18	15 41	3 39
S 17 M18 T 19	0 54	18 24 1 2 19 37 2 2 19 59 3 1	4 13	1 47 15 1 42 15 1 36 16	37 1 12		1 2 1 2 1 2	19 33	0 23 0 23 0 23	10 51 10 48 10 46		13 23 13 23 13 22	0 29		1 45 1 45 1 45	8 36	11 57	15 43 15 43 15 44	16 12	19 19	15 43	3 39 3 39 3 39
W20 T 21	0 7 0n17	19 27 4 18 1 4 3	2 28	1 30 16 1 23 16	28 1 20		1 3 1 3	19 28	0 23 0 24	10 43	1 34	13 21 13 21	0 29 0 29	17 55	1 45 1 45	8 37	11 57	15 44 15 43	16 10	19 20	15 45	3 39 3 38
F 22 S 23	0 40 1 4	15 44 5 12 39 5 1	0 40 0 0n15	1 16 17 1 8 17		20 49 20 58	1 3 1 4		0 24 0 24	10 38 10 36		13 20 13 20			1 45 1 45			15 42 15 41		19 20 19 21		3 38 3 38
S 24 M25	1 28 1 51	8 53 5 4 33 4 4	5 1 12 3 2 8	1 0 18 0 51 18	6 1 35 29 1 39		1 4 1 4	19 18 19 16	0 24 0 24	10 34 10 31	1 35 1 35	13 19 13 18		17 54 17 54	1 45 1 45			15 39 15 37		19 21 19 21	15 48 15 49	3 38 3 38
T 26 W27	2 15 2 38		4 3	0 41 18 0 32 19	15 1 47	21 32	1 5	19 11	0 24 0 25	10 26	1 35 1 35	13 17	0 29	17 54 17 54	1 45 1 45	8 40	11 55	15 35 15 34	16 3	19 22	15 51	3 38 3 38
T 28 F 29 S 30	3 25	9 32 2 13 37 0 4		0 21 19 0 11 19	58 1 54	21 40 21 48 21 56	1 6	19 6	0 25 0 25 0 25		1 35	13 16 13 15 13 15	0 29		1 45 1 45	8 40	11 55	15 33 15 32 15 32	16 1	-	15 52	3 38 3 38 3 37
S 30	3 48 4n11	16 52 0n3 19s 1 1n5				21 56 22n 3		19 4 19s 2		10 19 10s17		13 15 13 s14		17 53 17 s53	1 45 1n45						15 53 15n54	3 37 3 s37

 $\label{eq:Julian Day Number = 2320482.5, Delta T = 49.54 sec} \\ Ecliptic obliquity = 23°29'03, Nutation = 0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°43'55, Lahiri = 18°50'55Greg. Calendar$

APRIL 1641 GC 00:00 UT

71 IV	16 104.	Luc													00.0	0 01
Day	Sid.t	0	D	ğ	φ	ð	4	ħ)ұ(并	В	S.	Ω	Ç	ķ	Day
M 1	12 38 28	11 Y 32'49	17 ∡ 748	21 Y 41	24843	4 Ⅱ 35	6≈54	7) €31	6°R25	27°R15	0Д46	12 M .17	13 M .41	5 Ⅱ 46	26 8 39	M 1
T 2	12 42 24	12°31'48	2중 3	23°41	25°50	5°13	7° 3	7°37	6ML23	27 M .14	0°47	12°18	13°38	5°53	26°42	T 2
W 3	12 46 21	13°30'44	16° 5	25°39	26°56	5°51	7°13	7°44	6°20	27°13	0°48	12°R18	13°35	6° 0	26°46	W 3
T 4	12 50 18	14°29'40	29°53	27°36	28° 3	6°30	7°22	7°50	6°18	27°12	0°49	12°18	13°32	6° 6	26°50	T 4
F 5	12 54 14	15°28'33	13≈26	29°29	29° 9	7° 8	7°31	7°57	6°16	27°11	0°50	12°15	13°28	6°13	26°54	F 5
S 6	12 58 11	16°27'24	26°46	1820	0 Ⅱ 15	7°46	7°40	8° 3	6°13	27°10	0°51	12°12	13°25	6°20	26°57	S 6
S 7	13 2 7	17°26'14	9 ∺ 52	3° 8	1°21	8°24	7°49	8° 9	6°11	27° 9	0°52	12° 8	13°22	6°26	27° 1	S 7
M 8	13 6 4	18°25'02	22°43	4°52	2°26	9° 3	7°58	8°15	6° 9	27° 8	0°53	12° 5	13°19	6°33	27° 5	M 8
T 9	13 10 0	19°23'48	5 Υ 22	6°32	3°31	9°41	8° 7	8°21	6° 6	27° 7	0°54	12° 1	13°16	6°40	27° 9	T 9
W10	13 13 57	20°22'32	17°48	8° 9	4°36	10°19	8°15	8°27	6° 4	27° 5	0°55	11°59	13°13	6°46	27°13	W10
T 11	13 17 53	21°21'14	0 8 2	9°41	5°41	10°57	8°24	8°33	6° 2	27° 4	0°56	11°57	13° 9	6°53	27°17	T 11
F 12	13 21 50	22°19'54	12° 7	11° 9	6°46	11°35	8°32	8°39	5°59	27° 3	0°57	11°D56	13° 6	7° 0	27°21	F 12
S 13	13 25 46	23°18'32	24° 2	12°32	7°50	12°14	8°40	8°45	5°57	27° 2	0°58	11°57	13° 3	7° 6	27°25	S 13
S 14	13 29 43	24°17'08	5 Ⅱ 53	13°50	8°54	12°52	8°48	8°51	5°54	27° 0	1° 0	11°58	13° 0	7°13	27°30	S 14
M15	13 33 40	25°15'42	17°41	15° 3	9°58	13°30	8°56	8°57	5°52	26°59	1° 1	11°59	12°57	7°20	27°34	M15
T 16	13 37 36	26°14'14	29°30	16°12	11° 1	14° 8	9° 4	9° 3	5°49	26°58	1° 2	12° 1	12°53	7°26	27°38	T 16
W17	13 41 33	27°12'43	119526	17°15	12° 5	14°46	9°11	9° 8	5°47	26°57	1° 3	12° 2	12°50	7°33	27°42	W17
T 18	13 45 29	28°11'11	23°31	18°12	13° 7	15°25	9°19	9°14	5°44	26°55	1° 4	12°R 3	12°47	7°40	27°46	T 18
F 19	13 49 26	29° 9'36	5 Ω 52	19° 5	14°10	16° 3	9°26	9°20	5°42	26°54	1° 5	12° 3	12°44	7°46	27°51	F 19
S 20	13 53 22	0 ႘ 7'59	18°32	19°52	15°12	16°41	9°33	9°25	5°39	26°52	1° 7	12° 2	12°41	7°53	27°55	S 20
S 21	13 57 19	1° 6'20	1 m 35	20°33	16°14	17°19	9°40	9°31	5°37	26°51	1° 8	12° 1	12°38	8° 0	27°59	S 21
M22	14 1 15	2° 4'39	15° 4	21° 9	17°16	17°57	9°47	9°36	5°34	26°50	1° 9	12° 0	12°34	8° 6	28° 4	M22
T 23	14 5 12	3° 2'56	28°59	21°39	18°17	18°35	9°54	9°41	5°32	26°48	1°10	11°59	12°31	8°13	28° 8	T 23
W24	14 9 9	4° 1'10	13 ≏ 18	22° 4	19°18	19°13	10° 0	9°47	5°29	26°47	1°11	11°58	12°28	8°20	28°13	W24
T 25	14 13 5	4°59'23	27°58	22°23	20°19	19°51	10° 7	9°52	5°27	26°45	1°13	11°57	12°25	8°26	28°17	T 25
F 26	14 17 2	5°57'34	12ML52	22°36	21°19	20°30	10°13	9°57	5°24	26°44	1°14	11°D57	12°22	8°33	28°22	F 26
S 27	14 20 58	6°55'44	27°53	22°44	22°19	21° 8	10°19	10° 2	5°21	26°42	1°15	11°57	12°19	8°39	28°26	S 27
S 28	14 24 55	7°53'52	12 × 751	22°R47	23°18	21°46	10°25	10° 7	5°19	26°41	1°16	11°57	12°15	8°46	28°31	S 28
M29	14 28 51	8°51'58	27°39	22°44	24°17	22°24	10°31	10°12	5°16	26°39	1°18	11°58	12°12	8°53	28°35	M29
T 30	14 32 48	9 8 50'03	12 る 12	22 8 37	25 Ⅱ 15	23 II 2	10≈36	10) 17	5 M .14	26 M 38	1 I I19	11 M 58	12 M 9	8耳59	28840	T 30

Day	0	D		ğ		Ç	2	ď	1		4	ħ	1)į	j (j	ţ	Р	n	Ω	Ç	ķ	
	decl	decl lat		decl	lat	decl	lat	decl	lat	dec	l lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
M 1	4n35	19s54 3	n 3	8n49	0n23	21n 0	2n 5	22n11	1n 6	19s	0 s25	10s15	1 s36	13 s13	0n29	17 s 5 2	1n45	8n42 11s5	4 15 s33	15 s59	19n24	15n55	3 s37
T 2	4 58	19 28 4	0	9 44	0 34	21 20	2 9	22 18	1 7	18 5	7 0 26	10 12	1 36	13 13	0 29	17 52	1 45	8 42 11 5	4 15 33	15 58	19 24	15 56	3 37
W 3	5 21	17 51 4	42	10 38	0 45	21 39	2 12	22 25	1 7	18 5	0 26	10 10	1 36	13 12	0 29	17 52	1 45	8 42 11 5	4 15 34	15 57	19 25	15 57	3 37
T 4	5 43	15 13 5	7	11 31	0 57	21 58	2 16	22 32	1 7	18 5	0 26	10 8	1 36	13 11	0 29	17 52	1 45	8 43 11 5	3 15 33	15 56	19 25	15 58	3 37
F 5	6 6	11 48 5	14	12 22	1 8	22 16	2 19	22 39	1 7	18 5	0 26	10 6	1 36	13 10	0 29	17 51	1 45	8 43 11 5	3 15 33	15 55	19 25	15 59	3 37
S 6	6 29	7 51 5	4	13 12	1 19	22 34	2 22	22 45	1 8	18 4	9 0 26	10 4	1 36	13 10	0 29	17 51	1 45	8 44 11 5	3 15 32	15 54	19 26	16 0	3 37
S 7	6 52	3 35 4	38	13 59	1 30	22 51	2 26	22 52	1 8	18 4	0 26	10 1	1 37	13 9	0 29	17 51	1 46	8 44 11 5	3 15 30	15 53	19 26	16 1	3 37
M 8	7 14	0n46 3	59	14 45	1 40	23 7	2 29	22 58	1 8	18 4	4 0 27	9 59	1 37	13 8	0 29	17 51	1 46	8 44 11 5	3 15 29	15 52	19 26	16 2	3 37
T 9	7 36	5 1 3	8	15 28	1 50	23 23	2 32	23 4	1 8	18 4	2 0 27	9 57	1 37	13 7	0 29	17 50	1 46	8 45 11 5	2 15 28	15 51	19 27	16 2	3 37
W10	7 59	8 59 2	9	16 8	2 0	23 39	2 35	23 10	1 9	18 4	0 0 27	9 55	1 37	13 6	0 29	17 50	1 46	8 45 11 5	2 15 27	15 50	19 27	16 3	3 37
T 11	8 21	12 32 1	5	16 46	2 8	23 53	2 38	23 16	1 9	18 3	8 0 27	9 53	1 37	13 6	0 29	17 50	1 46	8 46 11 5	2 15 27	15 49	19 27	16 4	3 37
F 12	8 43	15 29 0	s 1	17 22	2 16	24 8	2 41	23 21	1 9	18 3	6 0 27	9 51	1 37	13 5	0 29	17 49	1 46	8 46 11 5	2 15 27	15 48	19 28	16 5	3 37
S 13	9 4	17 45 1	6	17 55	2 24	24 21	2 44	23 27	1 9	18 3	4 0 27	9 49	1 38	13 4	0 29	17 49	1 46	8 46 11 5	2 15 27	15 47	19 28	16 6	3 37
S 14	9 26	19 13 2	9	18 25	2 30	24 35	2 47	23 32	1 9	18 3	0 28	9 46	1 38	13 3	0 29	17 49	1 46	8 47 11 5	1 15 27	15 46	19 28	16 7	3 36
M15	9 47	19 50 3	5	18 52	2 36	24 47	2 50	23 37	1 10	18 3	0 0 28	9 44	1 38	13 2	0 29	17 48	1 46	8 47 11 5	1 15 28	15 45	19 28	16 8	3 36
T 16	10 9	19 35 3	54	19 17	2 41	24 59	2 53	23 42	1 10	18 2	9 0 28	9 42	1 38	13 2	0 29	17 48	1 46	8 48 11 5	1 15 28	15 44	19 29	16 9	3 36
W17	10 30	18 27 4	33	19 39	2 45	25 10		23 46	1 10	18 2		9 40	1 38	13 1	0 29	17 48	1 46	8 48 11 5	1 15 29	15 43	19 29	16 10	3 36
T 18	10 51	16 29 5	1	19 58	2 48	25 21	2 58	23 51	1 10	18 2	5 0 28	9 38	1 38	13 0	0 29	17 47	1 46	8 48 11 5	1 15 29	15 42	19 29	16 11	3 36
F 19	11 12	13 45 5	15 2	20 14	2 50	25 31	3 0	23 55	1 10	18 2	0 29	9 37	1 39	12 59	0 29	17 47	1 46	8 49 11 5	1 15 29	15 41	19 30	16 12	3 36
S 20	11 32	10 18 5	15 2	20 28	2 50	25 41	3 2	23 59	1 10	18 2	0 29	9 35	1 39	12 58	0 29	17 47	1 46	8 49 11 5	0 15 28	15 40	19 30	16 13	3 36
S 21	11 53	6 16 4	59 2	20 39	2 50	25 50	3 5	24 3	1 11	18 2	0 0 29	9 33	1 39	12 57	0 29	17 46	1 46	8 49 11 5	0 15 28	15 39	19 30	16 14	3 36
M22	12 13	1 48 4	26 2	20 47	2 48	25 58	3 7	24 7	1 11	18 1	8 0 29	9 31	1 39	12 57	0 29	17 46	1 46	8 50 11 5	0 15 28	15 38	19 30	16 15	3 36
T 23	12 33	2 s 5 4 3	37 2	20 53	2 46	26 6	3 9	24 10	1 11	18 1	6 0 29	9 29	1 39	12 56	0 29	17 46	1 46	8 50 11 5	0 15 27	15 37	19 31	16 16	3 36
W24	12 53	7 36 2	33 2	20 55	2 42	26 13	3 11	24 14	1 11	18 1	5 0 30	9 27	1 39	12 55	0 29	17 45	1 46	8 51 11 5	0 15 27	15 36	19 31	16 17	3 36
T 25	13 13	11 58 1	17 2	20 56	2 37	26 20	3 13	24 17	1 11	18 1	3 0 30	9 25	1 40	12 54	0 29	17 45	1 46	8 51 11 5	0 15 27	15 36	19 31	16 18	3 36
F 26	13 32	15 39 0	n 5 2	20 53	2 31	26 26	3 14	24 20	1 11	18 1	0 30	9 24	1 40	12 53	0 29	17 44	1 46	8 51 11 4	9 15 27	15 35	19 31	16 19	3 36
S 27	13 51	18 18 1	27	20 48	2 23	26 31	3 16	24 23	1 11	18 1	0 0 30	9 22	1 40	12 52	0 29	17 44	1 46	8 52 11 4	9 15 27	15 34	19 32	16 20	3 36
S 28	14 10	19 41 2	44 2	20 40	2 14	26 36	3 17	24 25	1 12	18	9 0 30	9 20	1 40	12 52	0 29	17 44	1 46	8 52 11 4	9 15 27	15 33	19 32	16 21	3 36
M29	14 29	19 40 3	48 2	20 30	2 4	26 40	3 19	24 28	1 12	18	8 0 31	9 18	1 40	12 51	0 29	17 43	1 46	8 52 11 4	9 15 27	15 32	19 32	16 22	3 36
T 30	14n47	18 s 20 4	n36	20n17	1n53	26n44	3n20	24n30	1n12	18s	6 0 s31	9s17	1 s41	12 s50	0n29	17 s43	1n46	8n53 11s4	9 15 s27	15 s 3 1	19n32	16n23	3 s36

Julian Day Number = 2320513.5, Delta T = 49.48 sec Ecliptic obliquity = $23^{\circ}29'03$, Nutation = $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}43'59$, Lahiri = $18^{\circ}50'59$ Greg. Calendar

MAY 1641 GC 00:00 UT

Day	Sid.t	\odot)	ğ	φ	ð	4	ħ)∤(¥	Р	ß	Ω	Ç	Š.	Day
W 1	14 36 44	10 8 48'07	26 පි 25	22°R25	26耳13	23耳40	10≈42	10 ∺ 22	5°R11	26°R36	1Ⅲ20	11 M .58	12 M 6	9 I 6	28844	W 1
T 2	14 40 41	11°46'09	10≈16	22 8 8	27°11	24°18	10°47	10°26	5M 9	26MJ35	1°22	11°58	12° 3	9°13	28°49	T 2
F 3	14 44 38	12°44'09	23°45	21°47	28° 8	24°56	10°52	10°31	5° 6	26°33	1°23	11°58	11°59	9°19	28°53	F 3
S 4	14 48 34	13°42'09	6 ¥ 54	21°22	29° 5	25°34	10°57	10°36	5° 4	26°31	1°24	11°58	11°56	9°26	28°58	S 4
S 5	14 52 31	14°40'07	19°45	20°54	0ණ 1	26°12	11° 2	10°40	5° 1	26°30	1°25	11°58	11°53	9°33	29° 3	S 5
M 6	14 56 27	15°38'03	2 Υ 19	20°24	0°57	26°50	11° 7	10°44	4°59	26°28	1°27	11°59	11°50	9°39	29° 7	M 6
T 7	15 0 24	16°35'58	14°40	19°51	1°52	27°28	11°11	10°49	4°56	26°27	1°28	11°59	11°47	9°46	29°12	T 7
W 8	15 4 20	17°33'52	26°51	19°17	2°47	28° 6	11°15	10°53	4°54	26°25	1°29	12° 0	11°44	9°53	29°17	W 8
T 9	15 8 17	18°31'45	8 8 52	18°42	3°41	28°44	11°20	10°57	4°51	26°23	1°31	12°R 0	11°40	9°59	29°21	T 9
F 10	15 12 13	19°29'36	20°47	18° 6	4°34	29°22	11°23	11° 1	4°49	26°22	1°32	12° 0	11°37	10° 6	29°26	F 10
S 11	15 16 10	20°27'25	2∏38	17°31	5°27	29°59	11°27	11° 5	4°47	26°20	1°33	11°59	11°34	10°13	29°31	S 11
S 12	15 20 7	21°25'14	14°26	16°56	6°20	0938	11°31	11° 9	4°44	26°19	1°35	11°58	11°31	10°19	29°36	S 12
M13	15 24 3	22°23'00	26°15	16°24	7°11	1°16	11°34	11°13	4°42	26°17	1°36	11°57	11°28	10°26	29°40	M13
T 14	15 28 0	23°20'45	8 9 6	15°53	8° 2	1°54	11°37	11°17	4°39	26°15	1°37	11°55	11°25	10°33	29°45	T 14
W15	15 31 56	24°18'29	20° 4	15°24	8°52	2°32	11°40	11°21	4°37	26°14	1°39	11°54	11°21	10°39	29°50	W15
T 16	15 35 53	25°16'11	2 Ω 10	14°59	9°42	3°10	11°43	11°24	4°35	26°12	1°40	11°52	11°18	10°46	29°55	T 16
F 17	15 39 49	26°13'51	14°30	14°37	10°31	3°48	11°46	11°28	4°32	26°11	1°41	11°51	11°15	10°53	29°59	F 17
S 18	15 43 46	27°11'30	27° 7	14°19	11°19	4°25	11°48	11°31	4°30	26° 9	1°43	11°D51	11°12	10°59	0 Ⅱ 4	S 18
S 19	15 47 42	28° 9'07	10 m 5	14° 4	12° 6	5° 3	11°51	11°35	4°28	26° 7	1°44	11°51	11° 9	11° 6	0° 9	S 19
M20	15 51 39	29° 6'43	23°27	13°54	12°52	5°41	11°53	11°38	4°26	26° 6	1°46	11°52	11° 5	11°13	0°14	M20
T 21	15 55 36	0 Ⅱ 4'17	7 ≏ 15	13°48	13°37	6°19	11°55	11°41	4°23	26° 4	1°47	11°53	11° 2	11°19	0°19	T 21
W22	15 59 32	1° 1'50	21°30	13°D46	14°22	6°57	11°57	11°44	4°21	26° 2	1°48	11°55	10°59	11°26	0°23	W22
T 23	16 3 29	1°59'21	6 M 9	13°49	15° 5	7°35	11°58	11°47	4°19	26° 1	1°50	11°R55	10°56	11°33	0°28	T 23
F 24	16 7 25	2°56'51	21° 8	13°56	15°48	8°13	11°59	11°50	4°17	25°59	1°51	11°55	10°53	11°39	0°33	F 24
S 25	16 11 22	3°54'20	6 ₹ 18	14° 8	16°30	8°51	12° 1	11°53	4°15	25°58	1°52	11°54	10°50	11°46	0°38	S 25
S 26	16 15 18	4°51'49	2 <u>1°</u> 32	14°24	17°10	9°28	12° 2	11°56	4°13	25°56	1°54	11°52	10°46	11°53	0°42	S 26
M27	16 19 15	5°49'16	6 ප 38	14°45	17°49	10° 6	12° 2	11°59	4°11	25°54	1°55	11°49	10°43	11°59	0°47	M27
T 28	16 23 11	6°46'42	21°28	15°10	18°28	10°44	12° 3	12° 1	4° 9	25°53	1°56	11°46	10°40	12° 6	0°52	T 28
W29	16 27 8	7°44'07	5 ≈ 55	15°40	19° 5	11°22	12° 3	12° 4	4° 7	25°51	1°58	11°43	10°37	12°13	0°57	W29
T 30	16 31 5	8°41'32	19°55	16°13	19°40	12° 0	12° 4	12° 6	4° 5	25°50	1°59	11°40	10°34	12°19	1° 2	T 30
F 31	16 35 1	9 Ⅲ 38'56	3 ∺ 29	16851	20915	12938	12°R 4	12 ∺ 8	4 m 3	25 M 48	2 I 1	11 M 39	10 M 30	12 Ⅱ 26	1 I I 6	F 31

Day	0	D	ğ	·	♂	24	ħ)f(\f	Р	S S	ş Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl de	ecl decl	decl lat
W 1 T 2	15n 6 15 24		20n 2 1n4 19 45 1 2	1 26n47 3n21 28 26 49 3 22		18s 5 0s31 18 4 0 31	9s15 1s41 9 13 1 41	12 s49 0n29 12 48 0 29	17 s43 1n46 17 42 1 46	8n53 11s49 8 54 11 49			
F 3	15 41			4 26 51 3 23					17 42 1 46	8 54 11 49			
S 4	15 59	4 32 4 48		18 26 52 3 24			9 10 1 41		17 42 1 46	8 54 11 48			
S 5	16 16	0 13 4 12	18 42 0 4	3 <mark>26 53</mark> 3 24	24 38 1 12	18 0 0 32	9 9 1 42	12 46 0 29	17 41 1 46	8 55 11 48	15 27 15	26 19 33	16 28 3 36
M 6	16 33	4n 2 3 23	18 18 0 2	26 26 53 3 24	24 39 1 13	17 59 0 32	9 7 1 42	12 45 0 29	17 41 1 46	8 55 11 48	15 28 15	25 19 34	16 29 3 36
T 7	16 50	8 2 2 26		9 26 53 3 25		17 58 0 32	9 6 1 42			0 00 11 10			
W 8	17 6	-		8 26 52 3 25	-	17 57 0 33	9 4 1 42			8 56 11 48		-	
T 9		14 45 0 17	- / -			17 56 0 33	9 3 1 42			8 56 11 48			
F 10			16 34 0 4			17 55 0 33			17 39 1 46	8 56 11 48			
S 11	17 54			1 26 46 3 24		17 55 0 33			17 39 1 46	8 57 11 48			
S 12		-	-	8 26 43 3 23	-	17 54 0 33			17 39 1 46	8 57 11 48		-	
M13				34 26 39 3 22		17 53 0 34			17 38 1 46	8 57 11 48			
T 14				50 26 35 3 21		17 52 0 34			17 38 1 46	8 58 11 48			
W15 T 16		17 8 4 54 14 38 5 12	14 29 2 14 8 2 2		-	17 52 0 34 17 51 0 34			17 37 1 46 17 37 1 46	8 58 11 47 8 58 11 47			
F 17				3 26 21 3 17		17 51 0 34			17 37 1 46				
S 18	19 34					17 50 0 35			17 36 1 46	8 59 11 47			
S 19	19 47	3 30 4 39	13 17 2 5	57 <mark>26 9</mark> 3 14	24 37 1 13	17 50 0 35	8 51 1 45	12 35 0 29	17 36 1 46	8 59 11 47	15 25 15	12 19 36	16 41 3 37
M20	20 0	1 s 1 3 57	13 4 3	7 26 2 3 11	24 35 1 13	17 49 0 35	8 50 1 45	12 34 0 29	17 36 1 46	9 0 11 47	15 25 15	11 19 36	16 42 3 37
T 21	20 12					17 49 0 35			17 35 1 46		15 26 15		
W22	20 24					17 49 0 36			17 35 1 46		15 26 15		
T 23						17 49 0 36			17 34 1 46			8 19 36	
F 24	20 47					17 48 0 36			17 34 1 46			7 19 37	
S 25	20 58	19 15 2 11	12 35 3 4	2 25 23 2 57	24 25 1 14	17 48 0 36	8 45 1 46	12 30 0 29	17 34 1 46	9 1 11 47	15 26 15	6 19 37	16 46 3 38
S 26	21 9	19 52 3 21	12 36 3 4	5 25 15 2 53	24 22 1 14	17 48 0 37	8 44 1 46	12 30 0 29	17 33 1 46	9 1 11 47	15 25 15	5 19 37	16 47 3 38
M27		-	12 40 3 4		-	17 48 0 37	8 43 1 46		17 33 1 46		15 24 15	4 19 37	
T 28				9 24 56 2 45		17 48 0 37			17 33 1 46		15 23 15	3 19 37	
				0 24 46 2 41	-	17 48 0 37	8 42 1 47		17 32 1 46		15 23 15	2 19 37	
	21 48	9 56 5 11		0 24 37 2 36		17 49 0 38	-		17 32 1 46		15 22 15	1 19 37	
F 31	21n56	5 s43 4n52	13n15 3s4	9 24n26 2n31	24n 6 1n14	17 s49 0 s38	8 s40 1 s47	12 s27 0n29	17 s32 1n46	9n 3 11s47	15 s22 15 s	0 19n37	16n51 3 s38

Julian Day Number = 2320543.5, Delta T = 49.42 sec Ecliptic obliquity = 23°29'03, Nutation = 0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°44'03, Lahiri = 18°51'03Greg. Calendar

JUNE 1641 GC 00:00 UT

Day	Sid.t	0)	ğ	φ	♂	4	ħ)∤(卉	Р	S.	v	Ç	ķ	Day
S 1	16 38 58	10Д36'20	16 ∺ 36	17832	209548	139516	12°R 4	12) 11	4°R 1	25°R46	2П 2	11°D39	10 M 27	12 Ⅲ 33	1 I I11	S 1
S 2	16 42 54	11°33'42	29°21	18°18	21°20	13°53	12≈ 3	12°13	3 M 59	25 M 45	2° 3	11 M 40	10°24	12°39	1°16	S 2
M 3	16 46 51	12°31'05	11 Y 47	19° 7	21°51	14°31	12° 3	12°15	3°57	25°43	2° 5	11°42	10°21	12°46	1°21	M 3
T 4	16 50 47	13°28'26	23°58	20° 0	22°20	15° 9	12° 2	12°17	3°56	25°42	2° 6	11°43	10°18	12°53	1°25	T 4
W 5	16 54 44	14°25'47	5 8 58	20°57	22°47	15°47	12° 1	12°18	3°54	25°40	2° 7	11°R45	10°15	12°59	1°30	W 5
T 6	16 58 40	15°23'08	17°51	21°58	23°13	16°25	12° 0	12°20	3°52	25°39	2° 9	11°45	10°11	13° 6	1°35	T 6
F 7	17 2 37	16°20'28	29°40	23° 1	23°37	17° 2	11°59	12°22	3°50	25°37	2°10	11°43	10° 8	13°13	1°39	F 7
S 8	17 6 34	17°17'47	11 Ⅱ 28	24° 9	24° 0	17°40	11°57	12°23	3°49	25°36	2°11	11°40	10° 5	13°19	1°44	S 8
S 9	17 10 30	18°15'06	23°17	25°19	24°20	18°18	11°55	12°25	3°47	25°34	2°13	11°35	10° 2	13°26	1°49	S 9
M10	17 14 27	19°12'24	59 9	26°33	24°39	18°56	11°54	12°26	3°46	25°33	2°14	11°29	9°59	13°33	1°53	M10
T 11	17 18 23	20° 9'42	17° 6	27°50	24°56	19°34	11°51	12°27	3°44	25°31	2°15	11°22	9°56	13°39	1°58	T 11
W12	17 22 20	21° 6'58	29° 9	29°11	25°12	20°12	11°49	12°28	3°43	25°30	2°17	11°15	9°52	13°46	2° 3	W12
T 13	17 26 16	22° 4'14	11 Ω 22	0Д35	25°25	20°49	11°47	12°30	3°41	25°29	2°18	11° 8	9°49	13°53	2° 7	T 13
F 14	17 30 13	23° 1'30	23°46	2° 2	25°36	21°27	11°44	12°30	3°40	25°27	2°19	11° 3	9°46	13°59	2°12	F 14
S 15	17 34 9	23°58'44	6Mp24	3°32	25°45	22° 5	11°41	12°31	3°39	25°26	2°20	11° 0	9°43	14° 6	2°16	S 15
S 16	17 38 6	24°55'58	19°19	5° 5	25°52	22°43	11°38	12°32	3°37	25°24	2°22	10°D58	9°40	14°13	2°21	S 16
M17	17 42 3	25°53'11	2 ₾ 35	6°41	25°56	23°21	11°35	12°33	3°36	25°23	2°23	10°58	9°36	14°19	2°25	M17
T 18	17 45 59	26°50'24	16°14	8°20	25°R58	23°58	11°32	12°33	3°35	25°22	2°24	10°59	9°33	14°26	2°30	T 18
W19	17 49 56	27°47'36	0 ™ 17	10° 3	25°58	24°36	11°28	12°34	3°34	25°20	2°26	11° 1	9°30	14°33	2°34	W19
T 20	17 53 52	28°44'47	14°45	11°48	25°56	25°14	11°25	12°34	3°33	25°19	2°27	11°R 1	9°27	14°39	2°39	T 20
F 21	17 57 49	29°41'58	29°35	13°36	25°51	25°52	11°21	12°34	3°32	25°18	2°28	11° 0	9°24	14°46	2°43	F 21
S 22	18 1 45	0939'09	14 ∡ 40	15°27	25°44	26°29	11°17	12°34	3°31	25°17	2°29	10°56	9°21	14°53	2°48	S 22
S 23	18 5 42	1°36'19	29°53	17°21	25°34	27° 7	11°13	12°R35	3°30	25°15	2°30	10°51	9°17	14°59	2°52	S 23
M24	18 9 38	2°33'29	15る 4	19°17	25°22	27°45	11° 8	12°34	3°29	25°14	2°32	10°44	9°14	15° 6	2°56	M24
T 25	18 13 35	3°30'39	0≈ 1	21°16	25° 8	28°23	11° 4	12°34	3°28	25°13	2°33	10°36	9°11	15°13	3° 1	T 25
W26	18 17 32	4°27'49	14°37	23°17	24°51	29° 1	10°59	12°34	3°27	25°12	2°34	10°28	9° 8	15°19	3° 5	W26
T 27	18 21 28	5°24'59	28°47	25°20	24°32	29°38	10°54	12°34	3°26	25°11	2°35	10°22	9° 5	15°26	3° 9	T 27
F 28	18 25 25	6°22'09	12) (27	27°25	24°11	0 Ω 16	10°49	12°33	3°26	25°10	2°36	10°17	9° 2	15°33	3°14	F 28
S 29	18 29 21	7°19'20	25°38	29°31	23°47	0°54	10°44	12°33	3°25	25° 8	2°38	10°15	8°58	15°39	3°18	S 29
S 30	18 33 18	8916'30	8 Y 23	1939	239521	1 Ω 32	10≈39	12) 32	3M24	25 M 7	2П39	10°D14	8 M .55	15 Ⅱ 46	3Ⅲ22	S 30

Day	0	D	ζ	5 9	2	3	4	-	ħ		ړ(ξ(1 4		Р	n	v	Ç	Ł	5
	decl	decl lat	decl	lat decl	lat decl	lat	decl	lat	decl	lat	decl	lat	decl l	lat	decl lat	decl	decl	decl	decl	lat
S 1	22n 5	1 s20 4n	n18 13n28	3 s46 24n16	2n26 24n 3	1n14	17 s49	0 s38	8 s40	1 s48	12 s26	0n29	17s31	1n46	9n 3 11s4	7 15 s21	14s59	19n38	16n52	3 s38
S 2	22 13	2n59 3	32 13 44	3 44 24 5	2 20 23 59	1 14	17 49	0 38	8 39	1 48	12 25	0 29	17 31	1 46	9 3 11 4	7 15 22	14 58	19 38	16 53	3 39
M 3	22 20	7 4 2	37 14 1	3 40 23 55	2 14 23 55	1 14	17 50	0 38	8 39	1 48	12 25	0 29	17 31	1 46	9 3 11 4	7 15 22	14 57	19 38	16 54	3 39
T 4		-	36 14 19	3 35 23 44	2 8 23 51		17 50	0 39	8 38		12 24	0 29	17 30	1 46		7 15 23				3 39
W 5			32 14 39	3 30 23 33	2 1 23 46		17 51	0 39	8 38					1 46	-	7 15 23				3 39
T 6			s33 15 0	-	1 54 23 42		17 51	0 39	8 37	-	-			1 46	-	7 15 23	_			3 39
F 7			36 15 22		1 47 23 37		17 52	0 39	8 37	-	12 22			1 46	-	7 15 23				3 39
S 8	22 53	19 38 2	35 15 46	3 11 22 59	1 39 23 32	1 14	17 52	0 40	8 36	1 49	12 22	0 28	17 29	1 46	9 5 11 4	7 15 22	14 52	19 38	16 58	3 39
S 9	22 58	19 52 3	27 16 10	3 3 22 47	1 31 23 27	1 14	17 53	0 40	8 36	1 50	12 21	0 28	17 29	1 46	9 5 11 4	7 15 20	14 51	19 38	16 58	3 40
M10	23 3	19 13 4	10 16 35	2 55 22 36	1 23 23 22	1 14	17 54	0 40	8 36	1 50	12 21	0 28	17 28	1 46	9 5 11 4	7 15 18	14 50	19 38	16 59	3 40
T 11	23 7	17 43 4	43 17 1	2 46 22 24	1 14 23 10	1 14	17 55	0 40	8 36	1 50	12 20	0 28	17 28	1 46	9 5 11 4	7 15 16	14 49	19 38	17 0	3 40
W12		15 25 5	3 17 28	2 37 22 12	1 5 23 10	1 14	17 56	0 41	8 35	1 50	12 20	0 28	17 28	1 46		7 15 14				3 40
	23 15	12 26 5	10 17 55		0 56 23 5	1 14	17 56	0 41	8 35	1 51	12 20	0 28	17 27	1 46		7 15 12				3 40
	23 18	8 52 5	2 18 22		0 46 22 59		17 57	0 41	8 35	-			17 27	1 46		7 15 10	_			3 40
S 15	23 21	4 50 4	40 18 50	2 6 21 37	0 36 22 53	1 13	17 58	0 41	8 35	1 51	12 19	0 28	17 27	1 46	9 6 11 4	7 15 9	14 45	19 39	17 3	3 41
S 16	23 23	0 30 4	3 19 17	1 56 21 26	0 25 22 46	1 13	17 59	0 42	8 35	1 51	12 18	0 28	17 26	1 46	9 6 11 4	7 15 9	14 44	19 39	17 4	3 41
M17	23 25	3 s 5 9 3	13 19 45	1 44 21 14	0 14 22 40	1 13	18 1	0 42	8 35	1 52	12 18	0 28	17 26	1 46	9 6 11 4	7 15 9	14 43	19 39	17 4	3 41
T 18	23 27	8 24 2	10 20 12	1 33 21 3	0 3 22 33	1 13	18 2	0 42	8 35	1 52	12 17	0 28	17 26	1 46	9 6 11 4	7 15 9	14 42	19 39	17 5	3 41
W19	23 28	12 30 0	58 20 39	1 22 20 51	0s 8 22 23	1 13	18 3	0 42	8 35	1 52	12 17	0 28	17 26	1 46	9 7 11 4	8 15 9	14 41	19 39	17 6	3 41
T 20	23 29	15 58 On	n20 21 5	1 10 20 40	0 20 22 20	1 13	18 4	0 42	8 35	1 52	12 17	0 28	17 25	1 46	9 7 11 4	8 15 10	14 40	19 39	17 6	3 42
	23 29	18 30 1	39 21 31	0 58 20 29	0 33 22 13	1 13	18 5	0 43	8 35	1 53	12 16	0 28	17 25	1 45	9 7 11 4	8 15 9	14 39	19 39	17 7	3 42
S 22	23 29	19 46 2	51 21 55	0 46 20 18	0 45 22 5	1 13	18 7	0 43	8 35	1 53	12 16	0 28	17 25	1 45	9 7 11 4	8 15 8	14 38	19 39	17 8	3 42
S 23	23 28	19 37 3	52 22 19	0 34 20 7	0 58 21 58	1 13	18 8	0 43	8 36	1 53	12 16	0 28	17 24	1 45	9 7 11 4	8 15 6	14 37	19 39	17 8	3 42
M24	23 28	18 3 4	37 22 41	0 23 19 56	1 11 21 50	1 13	18 10	0 43	8 36	1 53	12 16	0 28	17 24	1 45	9 7 11 4	8 15 4	14 36	19 39	17 9	3 42
T 25	23 26	15 16 5	1 23 1	0 11 19 45	1 25 21 43	1 13	18 11	0 44	8 36	1 54	12 15	0 28	17 24	1 45	9 7 11 4	8 15 2	14 35	19 39	17 9	3 43
W26	23 25	11 36 5	6 23 19	0n 0 19 35	1 39 21 35	1 13	18 13	0 44	8 36	1 54	12 15	0 28	17 24	1 45	9 8 11 4	8 14 59	14 34	19 39	17 10	3 43
T 27	23 22	7 22 4	51 23 36	0 12 19 25	1 52 21 27	1 13	18 14	0 44	8 37	1 54	12 15	0 28	17 23	1 45	9 8 11 4	8 14 57	14 33	19 39	17 11	3 43
F 28	23 20	2 54 4	20 23 50	0 22 19 14	2 7 21 19	1 13	18 16	0 44	8 37	1 54	12 15	0 28	17 23	1 45	9 8 11 4	8 14 56	14 32	19 39	17 11	3 43
S 29	23 17	1n34 3	36 24 2	0 33 19 5	2 21 21 10	1 13	18 17	0 45	8 38	1 55	12 14	0 28	17 23	1 45	9 8 11 4	8 14 55	14 31	19 39	17 12	3 44
S 30	23n14	5n49 2n	n42 24n11	0n42 18n55	2s35 21n 2	1n12	18s19	0 s45	8 s 3 8	1 s55	12 s14	0n28	17 s23	1n45	9n 8 11s4	9 14 s55	14 s30	19n39	17n12	3 s44

JULY 1641 GC 00:00 UT

Day	Sid.t	0	D	ğ	0	♂	21	Ł)∤(),(В	n	Ω	•	K	Day
					φ		4	ħ		并				Ç	Š.	,
M 1	18 37 14	99513'41	20 Y 47	39947	22°R54	2 \Omega 9	10°R33	12°R31	3°R24	25°R 6	2∏40	10 M .15	8ML52	15 Ⅱ 53	3 Ⅱ 26	M 1
T 2	18 41 11	10°10'53	2 8 55	5°57	22925	2°47	10≈28	12) (31	3M23	25M 5	2°41	10°15	8°49	16° 0	3°30	T 2
W 3	18 45 7	11° 8'05	14°51	8° 6	21°54	3°25	10°22	12°30	3°23	25° 4	2°42	10°R16	8°46	16° 6	3°34	W 3
T 4	18 49 4	12° 5'17	26°41	10°16	21°21	4° 3	10°16	12°29	3°22	25° 3	2°43	10°14	8°42	16°13	3°38	T 4
F 5	18 53 1	13° 2'29	8Д28	12°26	20°47	4°41	10°10	12°27	3°22	25° 2	2°44	10°10	8°39	16°20	3°42	F 5
S 6	18 56 57	13°59'42	20°17	14°35	20°12	5°18	10° 4	12°26	3°22	25° 1	2°45	10° 4	8°36	16°26	3°46	S 6
S 7	19 0 54	14°56'56	299 9	16°44	19°36	5°56	9°57	12°25	3°21	25° 0	2°46	9°56	8°33	16°33	3°50	S 7
M 8	19 4 50	15°54'09	14° 8	18°52	19° 0	6°34	9°51	12°23	3°21	25° 0	2°48	9°45	8°30	16°40	3°54	M 8
T 9	19 8 47	16°51'23	26°13	20°58	18°23	7°12	9°45	12°22	3°21	24°59	2°49	9°33	8°27	16°46	3°58	T 9
W10	19 12 43	17°48'38	$8\Omega 28$	23° 4	17°45	7°50	9°38	12°20	3°21	24°58	2°50	9°21	8°23	16°53	4° 2	W10
T 11	19 16 40	18°45'52	20°52	25° 8	17° 8	8°28	9°31	12°19	3°21	24°57	2°51	9°10	8°20	17° 0	4° 6	T 11
F 12	19 20 36	19°43'07	3 m 27	27°11	16°31	9° 5	9°24	12°17	3°D21	24°56	2°52	9° 0	8°17	17° 6	4°10	F 12
S 13	19 24 33	20°40'22	16°14	29°12	15°54	9°43	9°17	12°15	3°21	24°55	2°53	8°53	8°14	17°13	4°13	S 13
S 14	19 28 30	21°37'37	29°14	1Ω11	15°18	10°21	9°10	12°13	3°21	24°55	2°54	8°49	8°11	17°20	4°17	S 14
M15	19 32 26	22°34'52	12 △ 30	3° 9	14°43	10°59	9° 3	12°11	3°21	24°54	2°54	8°47	8° 8	17°26	4°21	M15
T 16	19 36 23	23°32'08	26° 4	5° 6	14° 9	11°37	8°56	12° 9	3°21	24°53	2°55	8°D47	8° 4	17°33	4°24	T 16
W17	19 40 19	24°29'24	9 M .58	7° 0	13°36	12°15	8°49	12° 6	3°22	24°53	2°56	8°R47	8° 1	17°40	4°28	W17
T 18	19 44 16	25°26'40	24°12	8°53	13° 5	12°53	8°41	12° 4	3°22	24°52	2°57	8°47	7°58	17°46	4°31	T 18
F 19	19 48 12	26°23'57	8 ∡ 745	10°44	12°35	13°30	8°34	12° 2	3°22	24°52	2°58	8°44	7°55	17°53	4°35	F 19
S 20	19 52 9	27°21'14	23°33	12°33	12° 8	14° 8	8°27	11°59	3°23	24°51	2°59	8°39	7°52	18° 0	4°38	S 20
S 21	19 56 6	28°18'32	8 ට 31	14°21	11°42	14°46	8°19	11°57	3°23	24°51	3° 0	8°31	7°48	18° 6	4°41	S 21
M22	20 0 2	29°15'50	23°30	16° 7	11°18	15°24	8°11	11°54	3°24	24°50	3° 1	8°22	7°45	18°13	4°45	M22
T 23	20 3 59	$0\Omega 13'09$	8≈21	17°51	10°57	16° 2	8° 4	11°51	3°24	24°50	3° 2	8°11	7°42	18°20	4°48	T 23
W24	20 7 55	1°10'29	22°54	19°33	10°38	16°40	7°56	11°48	3°25	24°49	3° 2	8° 0	7°39	18°26	4°51	W24
T 25	20 11 52	2° 7'49	7) € 4	21°14	10°21	17°18	7°48	11°46	3°25	24°49	3° 3	7°50	7°36	18°33	4°54	T 25
F 26	20 15 48	3° 5'11	20°46	22°53	10° 6	17°56	7°41	11°43	3°26	24°48	3° 4	7°43	7°33	18°40	4°58	F 26
S 27	20 19 45	4° 2'34	4Υ 0	24°30	9°54	18°34	7°33	11°39	3°27	24°48	3° 5	7°38	7°29	18°46	5° 1	S 27
S 28	20 23 41	4°59'57	16°48	26° 6	9°44	19°12	7°25	11°36	3°28	24°48	3° 5	7°36	7°26	18°53	5° 4	S 28
M29	20 27 38	5°57'23	29°14	27°40	9°37	19°49	7°17	11°33	3°29	24°47	3° 6	7°35	7°23	19° 0	5° 7	M29
T 30	20 31 34	6°54'49	11823	29°12	9°32	20°27	7° 9	11°30	3°30	24°47	3° 7	7°35	7°20	19° 6	5°10	T 30
W31	20 35 31	7 £ 52′16	23 8 19	0 m 43	9929	218 5	7≈ 2	11 ∺ 27	3 M .31	24 M 47	3 II 7	7 M .34	7 M 17	19 Ⅱ 13	5 Ⅱ 12	W31

Day	0	D	3	2	φ	♂	24	ŀ	ħ	<u> </u>)ţ	(¥		Р	n	u	Ç	ķ	
	decl	decl lat	decl	lat dec	lat dec	lat	decl	lat	decl	lat	decl	lat	decl la	at	decl lat	decl	decl	decl	decl	lat
M 1 T 2	23n10 23 6	-	13 24n18 39 24 21	0n52 18n4:			18 s 2 1 18 2 2	0 s45 0 45	8 s 3 9 8 3 9		12 s14 12 14	0n28 0 28		1n45 1 45	9n 8 11 s49 9 8 11 49					3 s44 3 44
W 3 T 4	23 1 22 56	15 56 0 s2 18 3 1 2		1 9 18 2° 1 16 18 13		-	18 24 18 26	0 45 0 46	8 40 8 40			0 28 0 28		1 45 1 45		14 55 14 55				3 45 3 45
F 5 S 6	22 51	19 22 2 2	25 24 16 17 24 9	1 23 18 10	3 45 20 1	8 1 12		0 46 0 46	8 41 8 42	1 56	12 14 12 13	0 28 0 28	17 22	1 45 1 45 1 45	9 8 11 49	14 54 14 52	14 25	19 39	17 15	3 45 3 45
S 7			0 23 59				18 32	0 46	8 42		12 13			1 45	, , , , , ,	14 49				3 46
M 8 T 9	22 32 22 25	-	33 23 46 54 23 31	1 38 17 40 1 42 17 39			18 34 18 35	0 46 0 47	8 43 8 44		12 13 12 13	0 28 0 28		1 45 1 45		14 46 14 42				3 46 3 46
W10 T 11	22 18 22 10		2 23 14 56 22 54	1 45 17 32 1 47 17 22		-	18 37 18 39	0 47 0 47	8 45 8 46		12 13 12 13	0 28 0 27		1 45 1 45		14 38 14 35				3 46 3 47
F 12 S 13	22 2 21 53	5 59 4 3 1 44 4	36 22 32 1 22 8	1 48 17 19 1 49 17 13			18 41 18 43	0 47 0 47	8 47 8 48		12 13 12 13	0 27 0 27		1 45 1 44		14 32 14 29				3 47 3 47
S 14 M15	21 45 21 35		14 21 42 15 21 15		5 31 18 4 2 5 40 18 3		18 46 18 48	0 48 0 48	8 49 8 50		12 14 12 14	0 27 0 27		1 44 1 44	9 9 11 50 9 9 11 50	14 28 14 27				3 47 3 48
T 16 W17	21 26 21 16	,	7 20 46 6 20 15	1 47 16 58 1 46 16 53			18 50 18 52	0 48 0 48	8 51 8 52	1 59 1 59		0 27 0 27	17 20 17 20	1 44 1 44		14 27 14 27				3 48 3 48
T 18 F 19	21 5 20 55	17 33 1 2	21 19 44		6 2 18	5 1 11		0 48 0 48	8 53 8 54		12 14 12 14	0 27 0 27	17 20 17 20	1 44 1 44		14 27 14 26				3 49 3 49
S 20	20 44		33 18 37				18 58	0 49	8 55		12 14			1 44		14 25				3 49
S 21 M22	20 21	18 52 4 2 16 39 4 3	51 17 26	1 28 16 39	6 23 17 2	2 1 10	19 2	0 49 0 49	8 56 8 57	2 0	12 15	0 27 0 27	17 20	1 44 1 44	9 9 11 52	14 22 14 19	14 7	19 38	17 21	3 50 3 50
T 23 W24	20 8 19 56	13 22 5 9 19 4 5		1 18 16 30	6 29 16 5	9 1 10		0 49 0 49	8 59 9 0		12 15	0 27 0 27		1 44 1 44	9 9 11 52	14 16 14 12	14 5	19 38	17 22	3 50 3 50
T 25 F 26	19 43 19 30	4 51 4 2 0 17 3 4		1 6 16 3			19 9 19 11	0 49 0 50	9 1 9 3	2 0 2 1	12 15 12 16	0 27 0 27		1 44 1 44	9 9 11 52 9 9 11 52		14 4 14 3	19 37	17 22	3 51 3 51
S 27	19 17		18 14 18				19 13	0 50	9 4	2 1	12 16	0 27		1 44	9 9 11 53			19 37		3 51
S 28 M29		11 55 0 4	18 13 40 14 13 1	0 45 16 30	6 33 15 5	9 1 9	19 15 19 17	0 50 0 50	9 5 9 7	2 1 2 1	12 16 12 17	0 27 0 27	17 20	1 44 1 44	9 9 11 53 9 9 11 53	14 4	14 0	19 37 19 37	17 23	3 52 3 52
T 30 W31			20 12 21 22 11n42	0 37 16 3' 0n30 16n3			19 19 19 s22	0 50 0 s50	9 8 9s10	2 1 2s 2	12 17 12 s17	0 27 0n27		1 44 1n43	9 9 11 53 9n 9 11 s53	14 4 14s 4		19 37 19n37		3 52 3 s53

Julian Day Number = 2320604.5, Delta T = 49.30 sec Ecliptic obliquity = $23^{\circ}29'02$, Nutation = $0^{\circ}00'11$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}44'11$, Lahiri = $18^{\circ}51'12$ Greg. Calendar

AUGUST 1641 GC 00:00 UT

															••••	
Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(¥	Р	រា	ນ	Ç	ķ	Day
T 1	20 39 28	8 Ω 49'45	5 I 9	2 m/ 12	9°D29	21 Q 43	6°R54	11°R23	3 M .32	24°R47	3 I 8	7°R33	7 ™ 14	19 Ⅱ 20	5 Ⅱ 15	T 1
F 2	20 43 24	9°47'16	16°58	3°39	9931	22°21	6≈46	11 米 20	3°33	24 M 47	3° 9	7 M 28	7°10	19°27	5°18	F 2
S 3	20 47 21	10°44'47	28°49	5° 4	9°35	22°59	6°38	11°16	3°34	24°47	3° 9	7°22	7° 7	19°33	5°21	S 3
S 4	20 51 17	11°42'20	109546	6°28	9°42	23°37	6°30	11°12	3°35	24°46	3°10	7°12	7° 4	19°40	5°23	S 4
M 5	20 55 14	12°39'54	22°53	7°49	9°51	24°15	6°23	11° 9	3°36	24°46	3°11	7° 0	7° 1	19°47	5°26	M 5
T 6	20 59 10	13°37'29	5 Ω 10	9° 9	10° 2	24°53	6°15	11° 5	3°38	24°D46	3°11	6°47	6°58	19°53	5°28	T 6
W 7	21 3 7	14°35'05	17°39	10°27	10°15	25°31	6° 7	11° 1	3°39	24°46	3°12	6°34	6°54	20° 0	5°31	W 7
T 8	21 7 3	15°32'43	0 m 20	11°44	10°29	26°10	6° 0	10°57	3°40	24°46	3°12	6°22	6°51	20° 7	5°33	T 8
F 9	21 11 0	16°30'22	13°12	12°58	10°46	26°48	5°52	10°53	3°42	24°47	3°13	6°11	6°48	20°13	5°36	F 9
S 10	21 14 57	17°28'02	26°15	14°10	11° 5	27°26	5°45	10°49	3°43	24°47	3°13	6° 3	6°45	20°20	5°38	S 10
S 11	21 18 53	18°25'43	9 ჲ 30	15°20	11°26	28° 4	5°37	10°45	3°45	24°47	3°14	5°59	6°42	20°27	5°40	S 11
M12	21 22 50	19°23'25	22°56	16°28	11°48	28°42	5°30	10°41	3°46	24°47	3°14	5°56	6°39	20°33	5°42	M12
T 13	21 26 46	20°21'08	6 M .35	17°33	12°12	29°20	5°22	10°37	3°48	24°47	3°15	5°D56	6°35	20°40	5°44	T 13
W14	21 30 43	21°18'52	20°27	18°36	12°38	29°58	5°15	10°33	3°50	24°47	3°15	5°R56	6°32	20°47	5°46	W14
T 15	21 34 39	22°16'38	4 ₹ 32	19°36	13° 5	0 m /36	5° 8	10°29	3°51	24°48	3°15	5°56	6°29	20°53	5°48	T 15
F 16	21 38 36	23°14'24	18°50	20°34	13°34	1°14	5° 1	10°25	3°53	24°48	3°16	5°53	6°26	21° 0	5°50	F 16
S 17	21 42 32	24°12'12	3 ට 18	21°29	14° 4	1°53	4°54	10°20	3°55	24°48	3°16	5°49	6°23	21° 7	5°52	S 17
S 18	21 46 29	25°10'01	17°53	22°21	14°35	2°31	4°47	10°16	3°57	24°49	3°17	5°42	6°20	21°13	5°54	S 18
M19	21 50 26	26° 7'51	2≈29	23°10	15° 9	3° 9	4°40	10°12	3°59	24°49	3°17	5°33	6°16	21°20	5°56	M19
T 20	21 54 22	27° 5'43	16°59	23°56	15°43	3°47	4°34	10° 7	4° 1	24°50	3°17	5°22	6°13	21°27	5°57	T 20
W21	21 58 19	28° 3'36	1 米 16	24°38	16°19	4°25	4°27	10° 3	4° 3	24°50	3°17	5°12	6°10	21°33	5°59	W21
T 22	22 2 15	29° 1'30	15°14	25°16	16°56	5° 4	4°21	9°59	4° 5	24°50	3°18	5° 3	6° 7	21°40	6° 0	T 22
F 23	22 6 12	29°59'26	28°49	25°50	17°34	5°42	4°14	9°54	4° 7	24°51	3°18	4°56	6° 4	21°47	6° 2	F 23
S 24	22 10 8	0 m 57'24	12 ° 0	26°21	18°13	6°20	4° 8	9°50	4° 9	24°52	3°18	4°51	6° 0	21°54	6° 3	S 24
S 25	22 14 5	1°55'24	24°48	26°46	18°53	6°58	4° 2	9°45	4°11	24°52	3°18	4°49	5°57	22° 0	6° 5	S 25
M26	22 18 1	2°53'26	7 8 14	27° 7	19°35	7°37	3°56	9°41	4°13	24°53	3°18	4°D48	5°54	22° 7	6° 6	M26
T 27	22 21 58	3°51'29	19°24	27°23	20°17	8°15	3°50	9°36	4°16	24°53	3°19	4°49	5°51	22°14	6° 7	T 27
W28	22 25 55	4°49'35	1 Ⅱ 23	27°33	21° 1	8°53	3°44	9°31	4°18	24°54	3°19	4°R50	5°48	22°20	6° 8	W28
T 29	22 29 51	5°47'42	13°14	27°R38	21°45	9°32	3°39	9°27	4°20	24°55	3°19	4°49	5°45	22°27	6° 9	T 29
F 30	22 33 48	6°45'52	25° 4	27°37	22°31	10°10	3°34	9°22	4°23	24°56	3°19	4°48	5°41	22°34	6°10	F 30
S 31	22 37 44	7 m 44'03	6958	27 Mg 30	239517	10 m 48	3≈28	9 ∺ 18	4 M 25	24M56	3 Ⅱ 19	4 M .43	5 M 38	22 Ⅱ 40	6 Ⅱ 11	S 31

Day	0	D	ğ	Q	♂	4	ħ)Å(卉	Р	v v	Ç	Š
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl dec	l decl	decl lat
T 1 F 2 S 3	18n 5 17 50 17 34	19 39 3 12	11n 3 0n2 10 23 0 1 9 44 0		15 10 1 8	19 26 0 50	9 13 2 2	12 s18	17 20 1 43	9 8 11 54	14s 3 13s5 14 2 13 5 14 0 13 5	6 19 36	17 24 3 53
S 4 M 5 T 6 W 7 T 8	17 18 17 2 16 46 16 29 16 12	18 34 4 29 16 45 4 51 14 9 5 0 10 53 4 55 7 5 4 35	9 5 0s 8 26 0 1 7 48 0 2 7 10 0 3 6 32 0 4	5 16 46 6 23 4 16 48 6 20 23 16 51 6 16 22 16 54 6 13 12 16 57 6 9	14 44 1 8 14 31 1 8 14 19 1 8 14 6 1 7 13 52 1 7	19 30 0 51 19 32 0 51 19 34 0 51 19 36 0 51 19 38 0 51	9 16 2 2 9 17 2 3 9 19 2 3 9 20 2 3 9 22 2 3	12 19 0 27 12 19 0 27 12 20 0 27 12 20 0 27 12 21 0 27	17 20 1 43 17 20 1 43 17 20 1 43 17 20 1 43 17 20 1 43	9 8 11 54 9 8 11 54 9 8 11 54 9 8 11 55 9 8 11 55	13 57 13 5 13 53 13 5 13 48 13 5 13 44 13 5 13 40 13 5	4 19 36 3 19 36 2 19 36 1 19 36 0 19 36	17 24 3 54 17 24 3 54 17 24 3 55 17 24 3 55 17 24 3 56
F 9 S 10 S 11	15 55 15 38 15 20			2 17 3 6 0	13 39 1 7 13 26 1 7 13 13 1 7		9 25 2 3		17 20 1 43 17 20 1 43 17 20 1 43	9 8 11 55	13 36 13 4 13 34 13 4 13 32 13 4	8 19 35	17 24 3 56
M12 T 13 W14 T 15 F 16 S 17	15 2 14 44 14 25 14 7 13 48 13 29	13 41 0n 3 16 40 1 16 18 42 2 26 19 35 3 27	3 31 1 3 2 57 1 4 2 24 1 5 1 52 2	32 17 11 5 45 32 17 14 5 40 32 17 17 5 35	12 59 1 6 12 46 1 6 12 32 1 6 12 18 1 6 12 5 1 6 11 51 1 5	19 48 0 52 19 50 0 52 19 51 0 52 19 53 0 52	9 29 2 4 9 30 2 4 9 32 2 4 9 34 2 4 9 36 2 4 9 37 2 4	12 24 0 26 12 24 0 26 12 25 0 26	17 20 1 43 17 20 1 43 17 21 1 43 17 21 1 43	9 7 11 56 9 7 11 56 9 7 11 56 9 7 11 56	13 32 13 4 13 31 13 4 13 31 13 4 13 31 13 4 13 31 13 4 13 29 13 4	4 19 35 3 19 35 2 19 34 1 19 34	17 24 3 57 17 24 3 58 17 24 3 58 17 24 3 58
S 18 M19 T 20 W21 T 22 F 23 S 24	13 9 12 50 12 30 12 10 11 50 11 30 11 9	14 44 5 2 11 4 4 56	0 22 2 3 0s 5 2 4 0 31 2 5 0 55 3 1 17 3 1	13 17 29 5 6 13 17 31 5 0 3 17 33 4 54 2 17 34 4 48	11 23 1 5 11 9 1 5 10 55 1 5 10 40 1 4 10 26 1 4	19 58 0 52 20 0 0 52 20 2 0 52 20 3 0 52 20 5 0 52		12 27 0 26 12 28 0 26 12 29 0 26	17 21 1 42 17 21 1 42 17 22 1 42 17 22 1 42 17 22 1 42	9 6 11 57 9 6 11 57 9 6 11 58 9 6 11 58 9 6 11 58	13 27 13 3 13 24 13 3 13 20 13 3 13 17 13 3 13 14 13 3 13 11 13 3 13 10 13 3	8 19 34 7 19 33 6 19 33 5 19 33 4 19 33	17 24 4 0 17 24 4 0 17 24 4 0 17 24 4 1 17 24 4 1
S 25 M26 T 27 W28 T 29 F 30 S 31	10 28 10 7 9 46 9 24 9 3	16 22 1 17 18 14 2 17 19 17 3 11	2 11 3 3 2 24 3 4 2 35 3 5 2 43 3 5 2 48 4	38 17 37 4 29 46 17 37 4 22 31 17 37 4 16 40 17 37 4 9 5 17 36 4 3	9 43 1 3 9 28 1 3 9 14 1 3 8 59 1 3 8 44 1 3	20 8 0 52 20 9 0 52 20 11 0 52 20 12 0 52 20 13 0 52 20 15 0 52 20 16 0 0 552	9 53 2 5 9 55 2 5 9 57 2 5 9 59 2 6 10 1 2 6		17 22 1 42 17 23 1 42 17 23 1 42 17 23 1 42	9 5 11 59 9 5 11 59 9 4 12 0	13 9 13 3 13 9 13 3 13 9 13 2 13 9 13 2	2 19 32 1 19 32 0 19 32 9 19 32 8 19 31 7 19 31 6 19n31	17 23 4 2 17 23 4 3 17 23 4 3 17 23 4 3 17 22 4 4

Julian Day Number = 2320635.5, Delta T = 49.24 sec Ecliptic obliquity = 23°29'02, Nutation = $0^\circ00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^\circ44'16$, Lahiri = $18^\circ51'16$ Greg. Calendar

SEPTEMBER 1641 GC 00:00 UT

JLI	LINDLIN	TOTE U	C												00.00	0 0 1
Day	Sid.t	0	D	ğ	·	♂ [™]	4	ħ)∤(并	Р	ស	S	Ç	ķ	Day
S 1	22 41 41	8 mp 42'17	1995 0	27°R17	2495 4	11 m)27	3°R23	9°R13	4 M 27	24 M 57	3 Ⅱ 19	4°R37	5 M 35	22 ∏ 47	6 Ⅱ 12	S 1
M 2	22 45 37	9°40'32	1 Ω 13	26 Mp 57	24°52	12° 5	3≈18	9 米 9	4°30	24°58	3°R19	4ML29	5°32	22°54	6°13	M 2
T 3	22 49 34	10°38'50	13°41	26°31	25°41	12°44	3°14	9° 4	4°32	24°59	3°19	4°20	5°29	23° 0	6°14	T 3
W 4	22 53 30	11°37'09	26°23	25°58	26°31	13°22	3° 9	8°59	4°35	25° 0	3°19	4°10	5°25	23° 7	6°14	W 4
T 5	22 57 27	12°35'30	9 m 21	25°19	27°21	14° 0	3° 4	8°55	4°38	25° 1	3°19	4° 1	5°22	23°14	6°15	T 5
F 6	23 1 24	13°33'53	22°34	24°34	28°12	14°39	3° 0	8°50	4°40	25° 2	3°19	3°54	5°19	23°20	6°15	F 6
S 7	23 5 20	14°32'18	6 º 1	23°44	29° 4	15°17	2°56	8°46	4°43	25° 3	3°19	3°48	5°16	23°27	6°16	S 7
S 8	23 9 17	15°30'44	19°38	22°49	29°56	15°56	2°52	8°41	4°46	25° 4	3°19	3°45	5°13	23°34	6°16	S 8
M 9	23 13 13	16°29'13	3 M 25	21°50	0Ω 49	16°34	2°48	8°37	4°49	25° 5	3°18	3°D44	5°10	23°41	6°16	M 9
T 10	23 17 10	17°27'43	17°20	20°48	1°42	17°13	2°45	8°32	4°51	25° 6	3°18	3°45	5° 6	23°47	6°16	T 10
W11	23 21 6	18°26'14	1 ₹ 21	19°45	2°37	17°52	2°41	8°28	4°54	25° 7	3°18	3°46	5° 3	23°54	6°17	W11
T 12	23 25 3	19°24'48	15°27	18°43	3°31	18°30	2°38	8°23	4°57	25° 8	3°18	3°R47	5° 0	24° 1	6°R17	T 12
F 13	23 28 59	20°23'23	29°38	17°41	4°27	19° 9	2°35	8°19	5° 0	25° 9	3°18	3°47	4°57	24° 7	6°17	F 13
S 14	23 32 56	21°21'59	13 る 51	16°43	5°23	19°47	2°32	8°14	5° 3	25°11	3°18	3°45	4°54	24°14	6°17	S 14
S 15	23 36 53	22°20'38	28° 4	15°50	6°19	20°26	2°30	8°10	5° 6	25°12	3°17	3°41	4°51	24°21	6°16	S 15
M16	23 40 49	23°19'17	12≈13	15° 2	7°16	21° 5	2°27	8° 6	5° 9	25°13	3°17	3°35	4°47	24°27	6°16	M16
T 17	23 44 46	24°17'59	26°16	14°22	8°13	21°43	2°25	8° 1	5°12	25°14	3°17	3°29	4°44	24°34	6°16	T 17
W18	23 48 42	25°16'43	10 米 7	13°50	9°11	22°22	2°23	7°57	5°15	25°16	3°16	3°23	4°41	24°41	6°16	W18
T 19	23 52 39	26°15'28	23°43	13°27	10°10	23° 1	2°21	7°53	5°18	25°17	3°16	3°17	4°38	24°47	6°15	T 19
F 20	23 56 35	27°14'15	7 Υ 1	13°13	11° 8	23°40	2°20	7°49	5°21	25°18	3°16	3°13	4°35	24°54	6°15	F 20
S 21	0 0 32	28°13'05	20° 1	13°D10	12° 8	24°18	2°18	7°44	5°24	25°20	3°15	3°11	4°31	25° 1	6°14	S 21
S 22	0 4 28	29°11'56	2 8 42	13°17	13° 7	24°57	2°17	7°40	5°27	25°21	3°15	3°D10	4°28	25° 7	6°13	S 22
M23	0 8 25	0 ₽ 10'50	15° 6	13°34	14° 8	25°36	2°16	7°36	5°31	25°23	3°14	3°11	4°25	25°14	6°13	M23
T 24	0 12 21	1° 9'46	27°15	14° 0	15° 8	26°15	2°15	7°32	5°34	25°24	3°14	3°12	4°22	25°21	6°12	T 24
W25	0 16 18	2° 8'45	9∏14	14°36	16° 9	26°54	2°14	7°28	5°37	25°26	3°14	3°14	4°19	25°28	6°11	W25
T 26	0 20 15	3° 7'45	21° 6	15°21	17°10	27°32	2°14	7°24	5°40	25°27	3°13	3°15	4°16	25°34	6°10	T 26
F 27	0 24 11	4° 6'48	2957	16°15	18°12	28°11	2°13	7°21	5°44	25°29	3°13	3°R16	4°12	25°41	6° 9	F 27
S 28	0 28 8	5° 5'54	14°51	17°15	19°14	28°50	2°D13	7°17	5°47	25°30	3°12	3°16	4° 9	25°48	6° 8	S 28
S 29	0 32 4	6° 5'01	26°54	18°23	20°17	29°29	2°13	7°13	5°50	25°32	3°12	3°14	4° 6	25°54	6° 7	S 29
M30	0 36 1	7 ♀ 4'11	9Ω10	19 m 37	$21\Omega 19$	0 亚 8	2≈14	7 ∺ 9	5 M .54	25 M 34	3 Ⅱ 11	3 M .11	4M 3	26 I I 1	6 I I 6	M30

Day	0	D	ğ	φ	ď	4	ħ)∤(¥	Р	n	ນ €	Š.
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl lat
S 1	8n19	17n16 4s55	2 s47 4 s1	13 17n34 3s50	8n14 1n 2	20s17 0s52	10s 4 2s 6	12 s37 0n26	17s24 1n42	9n 4 12s 0	13 s 5 13	s24 19n31	17n22 4s 5
M 2	7 57	14 58 5 5	2 41 4 1	15 17 32 3 43	8 0 1 2	20 18 0 52	10 6 2 6	12 38 0 26	17 24 1 41	9 4 12 0	13 2 13	3 23 19 30	17 22 4 5
T 3	7 35	11 56 5 2	2 32 4 1	16 17 30 3 37	7 45 1 2	20 19 0 52	10 8 2 6	12 39 0 26	17 24 1 41	9 4 12 0	12 59 13	3 22 19 30	17 21 4 5
W 4	7 13	8 18 4 43	2 18 4 1	16 17 27 3 30	7 30 1 1	20 20 0 52	10 9 2 6	12 40 0 26	17 25 1 41	9 3 12 1	12 56 13	3 21 19 30	17 21 4 6
T 5	6 51	4 13 4 10	2 1 4 1	14 17 24 3 24	7 15 1 1	20 21 0 52	10 11 2 6	12 41 0 26	17 25 1 41	9 3 12 1	12 53 13	3 20 19 30	17 21 4 6
F 6	6 28	0s 9 3 23	1 40 4 1	10 17 20 3 17	6 59 1 1	20 22 0 52	10 13 2 6	12 42 0 26	17 25 1 41	9 3 12 1	12 50 13	19 19 29	17 21 4 7
S 7	6 6	4 35 2 24	1 15 4	4 17 17 3 11	6 44 1 1	20 23 0 52	10 15 2 6	12 43 0 26	17 26 1 41	9 3 12 1	12 49 13	3 18 19 29	17 20 4 7
S 8	5 43	8 51 1 15	0 46 3 5	57 17 12 3 4	6 29 1 0	20 24 0 52	10 17 2 6	12 44 0 26	17 26 1 41	9 2 12 1	12 47 13	3 17 19 29	17 20 4 7
M 9	5 21	12 42 0 2	0 14 3 4	47 17 7 2 57	6 14 1 0	20 25 0 52	10 18 2 6	12 45 0 26	17 26 1 41	9 2 12 2	12 47 13	3 16 19 29	17 20 4 8
T 10	4 58	15 52 1n13	0n21 3 3	36 17 2 2 51	5 58 1 0	20 26 0 52	10 20 2 6	12 46 0 26	17 26 1 41	9 2 12 2	12 47 13	15 19 28	17 19 4 8
W11	4 35	18 7 2 24	0 58 3 2	22 16 57 2 44	5 43 0 59	20 27 0 52	10 22 2 6	12 47 0 26	17 27 1 41	9 2 12 2	12 48 13	3 14 19 28	17 19 4 9
T 12	4 12	19 16 3 26	1 36 3	7 16 50 2 38	5 28 0 59	20 27 0 52	10 23 2 6	12 48 0 26	17 27 1 41	9 2 12 2	12 48 13	3 13 19 28	17 18 4 9
F 13	3 49	19 12 4 17	2 15 2 5	51 16 44 2 32	5 12 0 59	20 28 0 52	10 25 2 6	12 49 0 26	17 27 1 41	9 1 12 3	12 48 13	3 12 19 28	17 18 4 9
S 14	3 26	17 56 4 51	2 54 2 3	33 16 37 2 25	4 57 0 59	20 29 0 52	10 27 2 6	12 50 0 26	17 28 1 41	9 1 12 3	12 47 13	3 11 19 27	17 18 4 10
S 15	3 3	15 33 5 8	3 33 2 1	14 16 29 2 19	4 41 0 58	20 29 0 52	10 28 2 6	12 51 0 26	17 28 1 41			3 10 19 27	17 17 4 10
M16	2 39	12 16 5 6	4 9 1 5	54 16 21 2 12		20 30 0 52			17 28 1 41		12 44 13		17 17 4 11
T 17	2 16	8 18 4 46	4 43 1 3	34 16 13 2 6	4 10 0 58	20 30 0 52		12 53 0 25	17 29 1 41	9 0 12 3	12 42 13		
W18	1 53	3 57 4 9	-	14 16 4 2 0		20 31 0 52				9 0 12 4			17 16 4 11
T 19	1 29	0n32 3 18		54 15 54 1 54		20 31 0 52			17 30 1 41		12 38 13		17 15 4 12
F 20	1 6	4 54 2 18	6 4 0 3	35 15 44 1 48	3 24 0 57	20 31 0 52	10 36 2 6	12 56 0 25	17 30 1 41	8 59 12 4	12 37 13	3 4 19 25	17 15 4 12
S 21	0 43	8 56 1 11	6 22 0 1	16 15 34 1 41	3 8 0 57	20 32 0 52	10 38 2 6	12 57 0 25	17 30 1 40	8 59 12 4	12 36 13	3 19 25	17 14 4 13
S 22	0 19	12 28 0 3	6 36 On	1 15 23 1 35	2 52 0 56	20 32 0 52	10 39 2 6	12 58 0 25	17 31 1 40	8 59 12 4	12 36 13	3 2 19 25	17 14 4 13
M23	0 s 4	15 22 1s 5	6 45 0 1	18 15 12 1 29	2 37 0 56	20 32 0 52	10 41 2 6	12 59 0 25	17 31 1 40	8 59 12 5	12 36 13	1 19 24	17 13 4 13
T 24	0 28	17 30 2 8	6 49 0 3	33 15 0 1 23	2 21 0 56	20 32 0 52	10 42 2 6	13 0 0 25	17 32 1 40	8 58 12 5	12 36 13	0 19 24	17 13 4 14
W25	0 51	18 50 3 5	6 48 0 4	47 14 47 1 18	2 5 0 55	20 32 0 52	10 44 2 6	13 1 0 25	17 32 1 40	8 58 12 5	12 37 12	2 59 19 24	17 12 4 14
T 26	1 15	19 19 3 53	6 42 1	0 14 35 1 12	1 49 0 55	20 32 0 52	10 45 2 6	13 2 0 25	17 32 1 40	8 58 12 5	12 37 12	2 58 19 23	17 12 4 15
F 27	1 38	18 56 4 31	6 32 1 1	12 14 21 1 6	1 34 0 55	20 32 0 52	10 47 2 6	13 4 0 25	17 33 1 40	8 58 12 5	12 38 12	2 57 19 23	17 11 4 15
S 28	2 2	17 43 4 58	6 18 1 2	22 14 8 1 0	1 18 0 55	20 32 0 52	10 48 2 6	13 5 0 25	17 33 1 40	8 57 12 6	12 37 12	2 56 19 23	17 11 4 15
S 29	2 25	15 43 5 12	5 59 1 3	30 13 53 0 55	1 2 0 54	20 32 0 52	10 49 2 6	13 6 0 25	17 34 1 40	8 57 12 6	12 37 12	2 55 19 22	17 10 4 16
M30	2 s49	12n58 5s12	5n37 1n3	38 13n39 0s49			10s51 2s 6	13 s 7 0n25	17 s34 1n40				17n10 4s16

 $\label{eq:Julian Day Number = 2320666.5, Delta T = 49.18 sec} \\ Ecliptic obliquity = 23°29'02, Nutation = 0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°44'20, Lahiri = 18°51'20Greg. Calendar$

OCTOBER 1641 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(¥	Р	S.	Ω	Ç	ķ	Day
T 1	0 39 57	8 ₾ 3'23	21 N 42	20 m 56	22\$\Omega22	0 ჲ 47	2≈14	7°R 6	5 M 57	25 M 35	3°R10	3°R 7	4 ™ 0	26耳 8	6°R 4	T 1
W 2	0 43 54	9° 2'37	4 Mp 33	22°20	23°26	1°26	2°15	7 ∺ 2	6° 1	25°37	3耳10	3M 4	3°56	26°14	6 II 3	W 2
T 3	0 47 50	10° 1'54	17°44	23°48	24°30	2° 5	2°16	6°59	6° 4	25°39	3° 9	3° 0	3°53	26°21	6° 2	T 3
F 4	0 51 47	11° 1'13	1 ≏ 14	25°19	25°34	2°44	2°17	6°55	6° 8	25°40	3° 9	2°57	3°50	26°28	6° 0	F 4
S 5	0 55 44	12° 0'34	15° 3	26°53	26°38	3°23	2°18	6°52	6°11	25°42	3° 8	2°55	3°47	26°34	5°59	S 5
S 6	0 59 40	12°59'57	29° 7	28°29	27°43	4° 3	2°19	6°49	6°15	25°44	3° 7	2°D54	3°44	26°41	5°57	S 6
M 7	1 3 37	13°59'22	13 M 21	0 호 8	28°47	4°42	2°21	6°46	6°18	25°45	3° 7	2°54	3°41	26°48	5°55	M 7
T 8	1 7 33	14°58'48	27°41	1°48	29°53	5°21	2°23	6°42	6°22	25°47	3° 6	2°55	3°37	26°55	5°54	T 8
W 9	1 11 30	15°58'17	12 ×7 4	3°29	0 m 58	6° 0	2°25	6°39	6°25	25°49	3° 5	2°57	3°34	27° 1	5°52	W 9
T 10	1 15 26	16°57'48	26°25	5°10	2° 4	6°39	2°27	6°37	6°29	25°51	3° 4	2°58	3°31	27° 8	5°50	T 10
F 11	1 19 23	17°57'20	10 궁 40	6°53	3°10	7°19	2°30	6°34	6°32	25°53	3° 4	2°58	3°28	27°15	5°48	F 11
S 12	1 23 19	18°56'54	24°48	8°36	4°16	7°58	2°33	6°31	6°36	25°55	3° 3	2°R58	3°25	27°21	5°46	S 12
S 13	1 27 16	19°56'30	8≈47	10°19	5°22	8°37	2°35	6°28	6°40	25°57	3° 2	2°58	3°22	27°28	5°44	S 13
M14	1 31 13	20°56'07	22°35	12° 2	6°29	9°16	2°38	6°26	6°43	25°59	3° 1	2°57	3°18	27°35	5°42	M14
T 15	1 35 9	21°55'47	6 ₩12	13°45	7°36	9°56	2°42	6°23	6°47	26° 0	3° 1	2°55	3°15	27°41	5°40	T 15
W16	1 39 6	22°55'27	19°36	15°27	8°43	10°35	2°45	6°21	6°51	26° 2	3° 0	2°54	3°12	27°48	5°37	W16
T 17	1 43 2	23°55'10	2 Υ 46	17°10	9°50	11°14	2°49	6°18	6°54	26° 4	2°59	2°53	3° 9	27°55	5°35	T 17
F 18	1 46 59	24°54'55	15°42	18°52	10°58	11°54	2°52	6°16	6°58	26° 6	2°58	2°52	3° 6	28° 2	5°33	F 18
S 19	1 50 55	25°54'41	28°24	20°34	12° 5	12°33	2°56	6°14	7° 2	26° 8	2°57	2°D52	3° 2	28° 8	5°30	S 19
S 20	1 54 52	26°54'30	10853	22°15	13°13	13°13	3° 1	6°12	7° 5	26°10	2°56	2°52	2°59	28°15	5°28	S 20
M21	1 58 48	27°54'21	23° 9	23°56	14°21	13°52	3° 5	6°10	7° 9	26°12	2°55	2°52	2°56	28°22	5°25	M21
T 22	2 2 45	28°54'14	5 Ⅱ 14	25°37	15°30	14°32	3° 9	6° 8	7°13	26°14	2°54	2°52	2°53	28°28	5°23	T 22
W23	2 6 41	29°54'09	17°11	27°17	16°38	15°11	3°14	6° 6	7°16	26°16	2°54	2°53	2°50	28°35	5°20	W23
T 24	2 10 38	0 M .54'06	29° 3	28°56	17°47	15°51	3°19	6° 4	7°20	26°19	2°53	2°53	2°47	28°42	5°18	T 24
F 25	2 14 35	1°54'05	10953	0 M 35	18°56	16°30	3°24	6° 3	7°24	26°21	2°52	2°53	2°43	28°48	5°15	F 25
S 26	2 18 31	2°54'06	22°47	2°14	20° 5	17°10	3°29	6° 1	7°28	26°23	2°51	2°R53	2°40	28°55	5°12	S 26
S 27	2 22 28	3°54'10	4 Ω 48	3°52	21°14	17°50	3°35	6° 0	7°31	26°25	2°50	2°D53	2°37	29° 2	5° 9	S 27
M28	2 26 24	4°54'16	17° 1	5°30	22°24	18°29	3°40	5°59	7°35	26°27	2°49	2°53	2°34	29° 9	5° 7	M28
T 29	2 30 21	5°54'23	29°31	7° 7	23°33	19° 9	3°46	5°58	7°39	26°29	2°48	2°53	2°31	29°15	5° 4	T 29
W30	2 34 17	6°54'33	12 m 21	8°44	24°43	19°49	3°52	5°56	7°43	26°31	2°47	2°54	2°28	29°22	5° 1	W30
T 31	2 38 14	7 M 54'45	25 Mp 35	10 M 20	25 m 53	20 ≏ 28	3≈58	5 米 55	7 M .46	26M33	2 Ⅱ 46	2 M 54	2 M 24	29Ⅱ29	4 Ⅱ 58	T 31

Day	0	D	ğ	Q	♂ [™]	4	ħ)∤(¥	Р	w c	Ç	o K
	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 W 2	3 s12 3 35	9n36 4s58 5 42 4 28	5n11 1n4 4 43 1 4			20 s32 0 s52 20 32 0 51		13 s 8 0n25 13 9 0 25		8n56 12s 6 8 56 12 6	12 s35 12 s 12 33 12	-	
T 3 F 4	3 59 4 22	1 26 3 44 3s 2 2 46	3 38 1 5	55 12 36 0 27	0 17 0 53	20 32 0 51 20 31 0 51	10 56 2 5	13 10 0 25 13 12 0 25	17 36 1 40	8 56 12 7	12 32 12 12 31 12	49 19 21	17 7 4 18
S 5 S 6 M 7		7 26 1 37 11 30 0 21 14 58 0n57	2 24 1 5	58 12 2 0 17	0 49 0 52	20 31 0 51 20 31 0 51 20 30 0 51	10 58 2 5		17 36 1 40 17 37 1 40 17 37 1 40	8 55 12 7	12 30 12 12 30 12 12 30 12	47 19 20	17 6 4 18
T 8 W 9	5 55 6 18	17 32 2 13 18 59 3 20	1 4 1 5 0 23 1 5	57 11 26 0 7 55 11 7 0 2	1 21 0 51 1 37 0 51	20 30 0 51 20 29 0 51	11 0 2 5 11 1 2 5	13 16 0 25 13 17 0 25	17 38 1 40 17 38 1 40	8 55 12 7 8 54 12 7	12 30 12 12 31 12	45 19 19 44 19 19	17 5 4 19 17 4 4 19
T 10 F 11 S 12	7 3	19 12 4 14 18 11 4 53 16 4 5 13	1 3 1 5	51 10 29 0 8	2 8 0 50	20 29 0 51 20 28 0 51 20 27 0 51	11 3 2 5		17 39 1 40	8 54 12 8	12 31 12 12 32 12 12 32 12	42 19 18	17 3 4 20
S 13 M14 T 15 W16 T 17 F 18 S 19	8 11 8 34 8 56 9 18 9 40	13 2 5 15 9 18 4 58 5 9 4 25 0 48 3 38 3n32 2 39 7 38 1 34 11 19 0 25	3 14 1 4 3 58 1 3 4 43 1 3 5 27 1 2 6 11 1 2	10 9 29 0 21 15 9 8 0 26 10 8 47 0 30 10 8 25 0 34 10 8 3 0 38	2 56 0 49 3 12 0 49 3 27 0 48 3 43 0 48 3 59 0 48	20 23 0 51 20 22 0 51	11 6 2 5 11 7 2 4 11 7 2 4 11 8 2 4 11 9 2 4	13 23 0 25 13 25 0 25 13 26 0 25 13 27 0 25 13 28 0 25	17 40 1 39 17 41 1 39 17 41 1 39 17 42 1 39	8 53 12 8 8 53 12 8 8 52 12 8 8 52 12 9 8 52 12 9	12 31 12 12 31 12 12 30 12 12 30 12 12 30 12 12 29 12 12 29 12	38 19 17 37 19 16 36 19 16 35 19 16 34 19 15	17 1 4 21 17 0 4 21 16 59 4 22 16 58 4 22 16 58 4 22
S 20 M21 T 22 W23 T 24 F 25 S 26	10 23 10 45 11 6 11 28 11 49 12 9	14 25 0s44 16 49 1 50 18 25 2 50 19 11 3 42 19 5 4 24 18 9 4 55	7 38 1 8 21 1 9 3 0 5 9 45 0 4 10 27 0 4	8 7 19 0 46 2 6 56 0 50 66 6 33 0 54 19 6 10 0 57 13 5 46 1 1 66 5 22 1 4	4 30 0 47 4 46 0 47 5 2 0 46 5 17 0 46 5 33 0 45 5 48 0 45	20 20 0 50 20 19 0 50 20 18 0 50 20 17 0 50 20 16 0 50 20 15 0 50	11 10 2 4 11 11 2 4 11 12 2 4 11 12 2 3 11 13 2 3 11 13 2 3	13 31 0 25 13 32 0 25 13 33 0 25	17 43 1 39 17 44 1 39 17 44 1 39 17 45 1 39 17 45 1 39 17 46 1 39	8 51 12 9 8 51 12 9 8 51 12 9 8 50 12 9 8 50 12 9	12 29 12 12 29 12 12 29 12 12 30 12 12 30 12 12 30 12	32 19 14 31 19 14 30 19 14 29 19 13 27 19 13 26 19 12	16 56 4 23 16 56 4 23 16 55 4 24 16 54 4 24 16 53 4 24 16 52 4 25
S 27 M28 T 29 W30 T 31	-	10 52 5 8 7 13 4 44 3 9 4 5	13 46 0 1	7 4 9 1 14 0 3 44 1 17 3 3 19 1 20	6 35 0 44 6 50 0 43 7 6 0 43	20 11 0 50 20 9 0 50 20 8 0 50	11 14 2 3 11 15 2 3 11 15 2 3	13 39 0 25 13 41 0 25 13 42 0 25 13 43 0 25 13 844 0n25	17 47 1 39 17 48 1 39 17 48 1 39	8 49 12 10 8 49 12 10 8 49 12 10 8 48 12 10 8n48 12s10	12 30 12 12 30 12 12 30 12	23 19 11 22 19 11 21 19 10	16 50 4 25 16 49 4 26 16 49 4 26

Julian Day Number = 2320696.5, Delta T = 49.12 sec Ecliptic obliquity = 23°29'02, Nutation = $0^\circ00'09$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^\circ44'24$, Lahiri = $18^\circ51'24$ Greg. Calendar

NOVEMBER 1641 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(¥	Р	v	ß	Ç	ę,	Day
F 1	2 42 10	8 M 54'59	9 ॒ 13	11 M .56	27 mg 3	21 <u>₽</u> 8	4≈ 4	5°R55	7 M 50	26 M 36	2°R45	2 M 55	2 m 21	29Ⅲ35	4°R55	F 1
S 2	2 46 7	9°55'15	23°16	13°32	28°13	21°48	4°11	5) 54	7°54	26°38	2 Ⅱ 44	2°55	2°18	29°42	4 Ⅱ 52	S 2
S 3	2 50 4	10°55'33	7 M 39	15° 7	29°24	22°28	4°17	5°53	7°58	26°40	2°43	2°R55	2°15	29°49	4°48	S 3
M 4	2 54 0	11°55'52	22°19	16°42	0 ჲ 34	23° 8	4°24	5°53	8° 1	26°42	2°42	2°55	2°12	29°55	4°45	M 4
T 5	2 57 57	12°56'13	7 .₹ 8	18°16	1°45	23°48	4°31	5°52	8° 5	26°44	2°41	2°54	2° 8	0ණ 2	4°42	T 5
W 6	3 1 53	13°56'36	21°58	19°51	2°56	24°28	4°38	5°52	8° 9	26°47	2°40	2°53	2° 5	0° 9	4°39	W 6
T 7	3 5 50	14°57'01	6 ⋜ 43	21°24	4° 6	25° 7	4°45	5°51	8°13	26°49	2°38	2°51	2° 2	0°16	4°36	T 7
F 8	3 9 46	15°57'27	21°15	22°58	5°17	25°47	4°53	5°51	8°16	26°51	2°37	2°50	1°59	0°22	4°32	F 8
S 9	3 13 43	16°57'54	5≈32	24°31	6°29	26°27	5° 0	5°D51	8°20	26°53	2°36	2°49	1°56	0°29	4°29	S 9
S 10	3 17 39	17°58'22	19°29	26° 4	7°40	27° 7	5°8	5°51	8°24	26°55	2°35	2°D49	1°53	0°36	4°26	S 10
M11	3 21 36	18°58'52	3 ∺ 7	27°37	8°51	27°48	5°16	5°51	8°27	26°58	2°34	2°49	1°49	0°42	4°22	M11
T 12	3 25 33	19°59'23	16°27	29°10	10° 3	28°28	5°24	5°52	8°31	27° 0	2°33	2°50	1°46	0°49	4°19	T 12
W13	3 29 29	20°59'55	29°30	0 ∡ 742	11°14	29° 8	5°32	5°52	8°35	27° 2	2°32	2°52	1°43	0°56	4°16	W13
T 14	3 33 26	22° 0'29	12 Y 18	2°14	12°26	29°48	5°40	5°53	8°39	27° 4	2°31	2°53	1°40	1° 2	4°12	T 14
F 15	3 37 22	23° 1'04	24°53	3°46	13°38	0 M L28	5°48	5°53	8°42	27° 7	2°30	2°54	1°37	1° 9	4° 9	F 15
S 16	3 41 19	24° 1'40	7 8 16	5°17	14°49	1° 8	5°57	5°54	8°46	27° 9	2°29	2°R54	1°33	1°16	4° 5	S 16
S 17	3 45 15	25° 2'18	19°30	6°49	16° 1	1°48	6° 6	5°55	8°50	27°11	2°27	2°53	1°30	1°23	4° 2	S 17
M18	3 49 12	26° 2'57	1 Ⅲ 36	8°20	17°14	2°29	6°15	5°56	8°53	27°13	2°26	2°51	1°27	1°29	3°58	M18
T 19	3 53 8	27° 3'37	13°35	9°51	18°26	3° 9	6°24	5°57	8°57	27°16	2°25	2°48	1°24	1°36	3°55	T 19
W20	3 57 5	28° 4'19	25°29	11°21	19°38	3°49	6°33	5°58	9° 0	27°18	2°24	2°43	1°21	1°43	3°51	W20
T 21	4 1 2	29° 5'03	7 9 521	12°51	20°50	4°30	6°42	5°59	9° 4	27°20	2°23	2°39	1°18	1°49	3°48	T 21
F 22	4 4 58	0 ∡ 5'48	19°11	14°22	22° 3	5°10	6°51	6° 0	9° 8	27°22	2°22	2°34	1°14	1°56	3°44	F 22
S 23	4 8 55	1° 6'34	1 0 5	15°51	23°15	5°50	7° 1	6° 2	9°11	27°25	2°21	2°30	1°11	2° 3	3°41	S 23
S 24	4 12 51	2° 7'22	13° 4	17°21	24°28	6°31	7°10	6° 3	9°15	27°27	2°19	2°27	1° 8	2° 9	3°37	S 24
M25	4 16 48	3° 8'11	25°14	18°49	25°41	7°11	7°20	6° 5	9°18	27°29	2°18	2°25	1° 5	2°16	3°34	M25
T 26	4 20 44	4° 9'02	7 m 38	20°18	26°54	7°52	7°30	6° 7	9°22	27°31	2°17	2°D25	1° 2	2°23	3°30	T 26
W27	4 24 41	5° 9'54	20°22	21°46	28° 6	8°32	7°40	6° 8	9°25	27°34	2°16	2°26	0°59	2°30	3°27	W27
T 28	4 28 37	6°10'48	3 ≏ 29	23°13	29°19	9°13	7°50	6°10	9°29	27°36	2°15	2°27	0°55	2°36	3°23	T 28
F 29	4 32 34	7°11'43	17° 2	24°40	0 M 32	9°53	8° 0	6°12	9°32	27°38	2°14	2°29	0°52	2°43	3°20	F 29
S 30	4 36 31	8 ∡ 12'39	1 m 4	26 ₹ 5	1 M .45	10 M 34	8≈10	6) (14	9 M .35	27 M 40	2 Ⅱ 13	2°R30	0 M 49	2950	3耳16	S 30

\odot	J)	ğ	5	φ	1	ď	7	2	4	ŧ	1);	j (4		Р	R	Ω	Ç	ď	;
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
14 s30	5 s37	2s 8	15 s36	0s10	2n29	1n26	7 s37	0n42	20s 5	0 s 5 0	11s15	2s 2	13 s45	0n25	17 s49	1n39		-				4 s27
14 49	9 53	0 53	16 12	0 17	2 3	1 28	7 52	0 42	20 3	0 50	11 15	2 2	13 47	0 25	17 50	1 39	8 48 12 1	0 12 30	12 18	19 9	16 46	4 27
15 8	13 41	0n26	16 47	0 24	1 38	1 31	8 7	0 41	20 1	0 50	11 16	2 2	13 48	0 25	17 51	1 39	8 47 12 1	0 12 30	12 17	19 8	16 45	4 27
-	-	-		0 30	1 12	1 33	8 22	0 41	20 0		-		-		17 51	1 39			_			4 27
											-										-	4 28
		-									_											4 28
-						-					-										-	4 28 4 28
											-										_	4 28
-		-	-	-	-	-																4 29
-, -,	. ,				-						-								_			4 29
-											-			-								4 29
18 18	6 35	1 51	22 7	1 30	3 12	1 52	10 51	0 37	19 41	0 49	11 14	2 0	14 1	0 25	17 56	1 39	8 45 12 1	1 12 30	12 4	19 3	16 37	4 29
18 34	10 20	0 44	22 30	1 36	3 39	1 53	11 6	0 36	19 39	0 49	11 14	2 0	14 2	0 25	17 57	1 39	8 45 12 1	1 12 30	12 3	19 2	16 36	4 30
18 49	13 35	0 s24	22 52	1 41	4 6	1 54	11 20	0 36	19 36	0 49	11 13	2 0	14 3	0 25	17 57	1 39	8 44 12 1	1 12 30	12 2	19 2	16 35	4 30
19 4	16 12	1 30	23 13	1 45	4 33	1 55	11 34	0 35	19 34	0 49	11 13	2 0	14 5	0 25	17 58	1 39	8 44 12 1	1 12 30	12 1	19 1	16 34	4 30
19 18	18 3	2 31	23 33	1 50	4 59	1 56	11 49	0 35	19 32	0 49	11 12	2 0	14 6	0 25	17 58	1 39	8 44 12 1	1 12 29	12 0	19 1	16 33	4 30
19 32	19 5	3 25	23 51	1 54	5 26		-	0 34	19 30	0 49	11 12	2 0	14 7	0 25	17 59	1 39	-				16 33	4 30
	-,												_				-	-				4 30
																						4 31
-		-		-	-						-											4 31
			-																			4 31
						- 0							_									4 31
				-							-											4 31
		-	-			-			-				-									4 31
													-				-					4 31 4 31
-		-		-							-											4 31
		-	-		-	-					-		-				-	-	_			-
	14 s 30 14 49 15 8 15 27 16 3 16 21 16 39 16 56 17 13 17 30 17 46 18 2 18 18 18 34 19 4 19 19 4 19 19 19 19 46 19 59 20 37 20 25 20 37 20 49 21 12 21 23 21 33	14 s 30	14 s 30	decl decl lat decl 14 430 5 837 2 8 8 15 836 14 49 9 53 0 53 16 12 15 8 13 41 0 026 16 47 20 15 27 16 41 1 46 17 20 15 35 15 45 18 36 2 59 17 53 16 39 16 42 5 10 19 27 16 56 13 49 5 16 19 56 19 56 17 13 10 12 5 3 20 24 17 30 6 7 4 33 20 52 17 8 18 8 2 2028 2 54 21 18 18 18 6 35 1 51 22 7 18 34 10 20 044 22 30 18 49 13 35 0 24 22 52 19 4 16 12 1 30 23 13 19 18 18 3 2 31 23 33 19 32 19 5 3 25 23 51 19 4 34 19 15 4 10 24 8 19 59 18 34 4 43 24 24 24 24 20 13 17 5 5 5 24 39 20 25 14 52 5 13 24 52 20 37 12 0 5 8 25 4 25 43 20 49 8 36 4 49 25 15 <td< td=""><td>decl decl lat decl lat 14 430 5 837 2 8 15 836 0 810 14 49 9 53 0 53 16 12 0 17 15 8 13 41 0 026 16 47 0 24 15 27 16 41 1 46 17 20 0 30 16 3 18 36 2 59 17 53 0 37 16 3 19 15 4 0 18 25 0 43 16 39 16 42 5 10 19 27 0 56 16 56 13 49 5 16 19 56 1 2 17 13 10 12 5 3 20 24 1 8 17 30 6 7 4 33 20 52 1 14 17 46 1 50 3 49 21 18 1 19 18 2 2n28 2 54 21 43 1 25 18 18 6 35 1 51 22 7 1 30 18 49 13 35 0 24 22 52 1 41 19 4 16 12 1 30 23 13 1 45 19 4 16 12 1 30 23 13 1 45 19 4 19 15 3 25 23 51 154</td><td>decl decl lat decl lat decl 14 430 5 837 2 8 15 836 0 810 2n29 14 49 9 53 0 53 16 12 0 17 2 3 15 8 13 41 0n26 16 47 0 24 1 38 15 27 16 41 1 46 17 20 0 30 1 12 15 45 18 36 2 59 17 53 0 37 0 46 16 3 19 15 4 0 18 25 0 43 0 20 16 21 18 35 4 44 18 56 0 49 0s 7 16 39 16 42 5 10 19 27 0 56 0 33 16 56 13 49 5 16 19 56 1 2 0 59 17 13 10 12 5 3 20 24 1 8 1 26 17 30 6 7 4 33 20 52 1 14 1 52 17 46 150 3 49 21 18 1 19 2 19 18 2 2n28 2 54 21 43 1 25 2 46 18 18 6 35 1 51 22 7 1 30</td><td>decl decl lat decl lat decl lat 14 430 5 837 2 8 15 836 0 810 2n29 1n26 14 49 9 53 0 53 16 12 0 17 2 3 1 28 15 8 13 41 0n26 16 47 0 24 1 38 1 31 15 27 16 41 1 46 17 20 0 30 1 12 1 33 15 31 18 36 2 59 17 53 0 37 0 46 1 35 16 31 19 15 4 0 18 25 0 43 0 20 1 38 16 21 18 35 4 44 18 56 0 49 0 7 1 40 16 39 16 42 5 10 19 27 0 56 0 33 1 42 16 56 13 49 5 16 19 56 1 2 0 59 1 44 17 13 10 12 5 3 20 24 1 8 1 26 1 45 17 30 6 7 4 33 20 52 1 14</td><td>decl decl lat decl 7 s37 14 49 9 53 0 53 16 12 0 17 2 3 1 28 7 52 15 8 13 41 0n26 16 47 0 24 1 38 1 31 8 22 15 27 16 41 1 46 17 20 0 30 1 12 1 33 8 22 16 31 19 15 4 0 18 25 0 43 0 20 1 38 8 53 16 21 18 35 4 44 18 56 0 49 0s 7 1 40 9 8 16 39 16 42 5 10 19 27 0 56 0 33 1 42 9 23 17 13 10 12 5 3 20 24 1 8 1 26 1 45 <</td><td>decl decl lat 14 49 9 53 0 53 16 12 0 17 2 3 1 28 7 52 0 42 15 8 13 41 0n26 16 47 0 24 1 38 1 31 8 7 0 41 15 27 16 41 1 46 17 20 0 30 1 12 1 33 8 22 0 41 16 3 19 15 4 0 18 25 9 17 53 0 37 0 46 1 35 8 8 70 0 40 16 3 19 15 4 0 18 25 0 43 0 20 1 38 8 53 0 40 16 21 18 35 4 44 18 56 0 49 0 7 1 40 9 8 0 40 16 39 16 42 5 10 19 27 0 56 0 33 1 42 9 23 0 39 17 13 10 12 5 3 20 24 1 8 1 26 1 45 9 52 0 38 17 30 6 7 4 33 20 52 1 14</td><td> decl decl lat lat </td><td> </td><td> decl decl lat l</td><td> decl decl lat lat decl lat decl lat lat</td><td> dec dec lat lat </td><td> </td><td> </td><td> </td><td> Hedge Gee Ge</td><td> </td><td> </td><td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td><td></td></td<>	decl decl lat decl lat 14 430 5 837 2 8 15 836 0 810 14 49 9 53 0 53 16 12 0 17 15 8 13 41 0 026 16 47 0 24 15 27 16 41 1 46 17 20 0 30 16 3 18 36 2 59 17 53 0 37 16 3 19 15 4 0 18 25 0 43 16 39 16 42 5 10 19 27 0 56 16 56 13 49 5 16 19 56 1 2 17 13 10 12 5 3 20 24 1 8 17 30 6 7 4 33 20 52 1 14 17 46 1 50 3 49 21 18 1 19 18 2 2n28 2 54 21 43 1 25 18 18 6 35 1 51 22 7 1 30 18 49 13 35 0 24 22 52 1 41 19 4 16 12 1 30 23 13 1 45 19 4 16 12 1 30 23 13 1 45 19 4 19 15 3 25 23 51 154	decl decl lat decl lat decl 14 430 5 837 2 8 15 836 0 810 2n29 14 49 9 53 0 53 16 12 0 17 2 3 15 8 13 41 0n26 16 47 0 24 1 38 15 27 16 41 1 46 17 20 0 30 1 12 15 45 18 36 2 59 17 53 0 37 0 46 16 3 19 15 4 0 18 25 0 43 0 20 16 21 18 35 4 44 18 56 0 49 0s 7 16 39 16 42 5 10 19 27 0 56 0 33 16 56 13 49 5 16 19 56 1 2 0 59 17 13 10 12 5 3 20 24 1 8 1 26 17 30 6 7 4 33 20 52 1 14 1 52 17 46 150 3 49 21 18 1 19 2 19 18 2 2n28 2 54 21 43 1 25 2 46 18 18 6 35 1 51 22 7 1 30	decl decl lat decl lat decl lat 14 430 5 837 2 8 15 836 0 810 2n29 1n26 14 49 9 53 0 53 16 12 0 17 2 3 1 28 15 8 13 41 0n26 16 47 0 24 1 38 1 31 15 27 16 41 1 46 17 20 0 30 1 12 1 33 15 31 18 36 2 59 17 53 0 37 0 46 1 35 16 31 19 15 4 0 18 25 0 43 0 20 1 38 16 21 18 35 4 44 18 56 0 49 0 7 1 40 16 39 16 42 5 10 19 27 0 56 0 33 1 42 16 56 13 49 5 16 19 56 1 2 0 59 1 44 17 13 10 12 5 3 20 24 1 8 1 26 1 45 17 30 6 7 4 33 20 52 1 14	decl decl lat decl 7 s37 14 49 9 53 0 53 16 12 0 17 2 3 1 28 7 52 15 8 13 41 0n26 16 47 0 24 1 38 1 31 8 22 15 27 16 41 1 46 17 20 0 30 1 12 1 33 8 22 16 31 19 15 4 0 18 25 0 43 0 20 1 38 8 53 16 21 18 35 4 44 18 56 0 49 0s 7 1 40 9 8 16 39 16 42 5 10 19 27 0 56 0 33 1 42 9 23 17 13 10 12 5 3 20 24 1 8 1 26 1 45 <	decl decl lat 14 49 9 53 0 53 16 12 0 17 2 3 1 28 7 52 0 42 15 8 13 41 0n26 16 47 0 24 1 38 1 31 8 7 0 41 15 27 16 41 1 46 17 20 0 30 1 12 1 33 8 22 0 41 16 3 19 15 4 0 18 25 9 17 53 0 37 0 46 1 35 8 8 70 0 40 16 3 19 15 4 0 18 25 0 43 0 20 1 38 8 53 0 40 16 21 18 35 4 44 18 56 0 49 0 7 1 40 9 8 0 40 16 39 16 42 5 10 19 27 0 56 0 33 1 42 9 23 0 39 17 13 10 12 5 3 20 24 1 8 1 26 1 45 9 52 0 38 17 30 6 7 4 33 20 52 1 14	decl decl lat lat		decl decl lat l	decl decl lat lat decl lat decl lat lat	dec dec lat lat				Hedge Gee Ge			$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	

 $\label{eq:Julian Day Number = 2320727.5, Delta T = 49.06 sec} \\ Ecliptic obliquity = 23°29'01, Nutation = 0°00'08, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°44'28, Lahiri = 18°51'29Greg. Calendar$

DECEMBER 1641 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(¥	В	R	Ω	Ç	ķ	Day
																,
S 1 M 2	4 40 27 4 44 24	9 ⋌ 13'37 10°14'36	15 M 33 0 ₹ 24	27 × ⁷ 30 28°53	2ML59 4°12	11 M .15 11°55	8 ≈ 21 8°31	6 ∺ 17 6°19	9 ™ 39 9°42	27 M .43 27°45	2°R11 2 Ⅱ 10	2°R29 2M26	0MJ46 0°43	2 © 56 3°3	3°R12 3 Ⅱ 9	S 1 M 2
T 3	4 44 24 4 48 20	10°14'36 11°15'36	15°32	28°53 0 궁 15	5°25	11°33	8°42	6°22	9°42 9°46	27°43	2m10 2° 9	2°22	0°43 0°39	3°10	3 <u>ш</u> 9	T 3
W 4	4 48 20 4 52 17	11°13'36 12°16'37	15*32 0 중 45	1°36	6°39	12°36 13°17	8°53	6°24	9°46 9°49	27°47 27°49	2° 8	2°16	0°36	3°17	3° 2	W 4
T 5	4 56 13	12 10 3 / 13°17'38	15°54	2°54	7°52	13°57	9° 4	6°27	9°52	27°52	2° 7	2°10	0°33	3°23	2°58	W 4 T 5
F 6	5 0 10	13 1 / 38 14°18'40	0 ≈ 49	4°11	9° 5	13°37 14°38	9°15	6°29	9°56	27°54	2° 6	2° 4	0°30	3°30	2°55	F 6
S 7	5 4 6	15°19'43	15°23	5°25	9 3 10°19	14 38 15°19	9°26	6°32	9°59	27°56	2° 5	1°59	0°27	3°37	2°51	S 7
3 /	3 4 0	13 1943										1 39				
S 8	5 8 3	16°20'46	29°31	6°36	11°32	16° 0	9°37	6°35	10° 2	27°58	2° 4	1°55	0°24	3°43	2°48	S 8
M 9	5 12 0	17°21'50	13 米 12	7°43	12°46	16°41	9°48	6°38	10° 5	28° 0	2° 3	1°D54	0°20	3°50	2°45	M 9
T 10	5 15 56	18°22'54	26°28	8°47	14° 0	17°22	10° 0	6°41	10° 8	28° 2	2° 1	1°54	0°17	3°57	2°41	T 10
W11	5 19 53	19°23'59	9 Υ 21	9°46	15°13	18° 2	10°11	6°45	10°11	28° 5	2° 0	1°55	0°14	4° 4	2°38	W11
T 12	5 23 49	20°25'03	21°56	10°40	16°27	18°43	10°23	6°48	10°15	28° 7	1°59	1°57	0°11	4°10	2°35	T 12
F 13	5 27 46	21°26'09	4817	11°27	17°41	19°24	10°35	6°51	10°18	28° 9	1°58	1°R57	0° 8	4°17	2°31	F 13
S 14	5 31 42	22°27'14	16°26	12° 8	18°55	20° 5	10°46	6°55	10°21	28°11	1°57	1°56	0° 5	4°24	2°28	S 14
S 15	5 35 39	23°28'20	28°28	12°42	20° 9	20°46	10°58	6°58	10°24	28°13	1°56	1°52	0° 1	4°30	2°25	S 15
M16	5 39 35	24°29'27	10 Ⅱ 25	13° 6	21°22	21°27	11°10	7° 2	10°27	28°15	1°55	1°46	29 £ 58	4°37	2°21	M16
T 17	5 43 32	25°30'34	22°18	13°22	22°36	22° 9	11°22	7° 6	10°30	28°17	1°54	1°37	29°55	4°44	2°18	T 17
W18	5 47 29	26°31'41	49510	13°R27	23°50	22°50	11°34	7°10	10°32	28°19	1°53	1°27	29°52	4°50	2°15	W18
T 19	5 51 25	27°32'49	16° 2	13°20	25° 4	23°31	11°47	7°14	10°35	28°21	1°52	1°15	29°49	4°57	2°12	T 19
F 20	5 55 22	28°33'57	27°56	13° 3	26°19	24°12	11°59	7°18	10°38	28°23	1°51	1° 4	29°45	5° 4	2° 9	F 20
S 21	5 59 18	29°35'06	9 Ω 52	12°33	27°33	24°53	12°11	7°22	10°41	28°25	1°50	0°53	29°42	5°11	2° 6	S 21
S 22	6 3 15	0 ට 36'15	21°54	11°52	28°47	25°34	12°24	7°26	10°44	28°27	1°49	0°44	29°39	5°17	2° 3	S 22
M23	6 7 11	1°37'24	4 mp 4	11° 0	0 × 1	26°16	12°36	7°30	10°46	28°29	1°48	0°38	29°36	5°24	2° 0	M23
T 24	6 11 8	2°38'34	16°27	9°57	1°15	26°57	12°49	7°35	10°49	28°31	1°47	0°34	29°33	5°31	1°57	T 24
W25	6 15 4	3°39'44	29° 5	8°47	2°29	27°38	13° 1	7°39	10°52	28°33	1°46	0°D33	29°30	5°37	1°54	W25
T 26	6 19 1	4°40'55	12 ♀ 3	7°30	3°44	28°20	13°14	7°44	10°54	28°35	1°45	0°33	29°26	5°44	1°51	T 26
F 27	6 22 58	5°42'06	25°26	6°10	4°58	29° 1	13°27	7°48	10°57	28°37	1°44	0°R33	29°23	5°51	1°48	F 27
S 28	6 26 54	6°43'17	9 M .16	4°48	6°12	29°43	13°40	7°53	10°59	28°39	1°43	0°33	29°20	5°58	1°46	S 28
S 29	6 30 51	7°44'29	23°35	3°28	7°27	0 ∡ 724	13°53	7°58	11° 2	28°41	1°42	0°31	29°17	6° 4	1°43	S 29
M30	6 34 47	8°45'41	8 × ⁷ 20	2°12	8°41	1° 6	14° 6	8° 3	11° 4	28°43	1°42	0°26	29°14	6°11	1°40	M30
T 31	6 38 44	9 ප් 46'53	23 × 27	1る3	9 ₹ 55	1 ∡7 47	14≈19	8 米 8	11 m 7	28 M .44	1 П 41	0ML19	29 ≙ 11	6918	1 Ⅲ 38	T 31

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 dec	decl	decl lat
S 1 M 2	21 s52 22 2			2s22 10s39 2n 0 2 21 11 4 2 0				14 s20 0n25 14 21 0 25		8n42 12s10 8 42 12 10			
T 3 W 4 T 5	22 18	19 5 4 24	25 47 2	2 20 11 29 1 59 2 18 11 53 1 59 2 16 12 18 1 58	15 26 0 27		11 0 1 57	14 22 0 25 14 23 0 25 14 25 0 25	18 6 1 39	8 41 12 10	12 19 11 4 12 17 11 4 12 15 11 4	2 18 52	16 21 4 32
F 6 S 7	_	14 58 5 9		2 13 12 42 1 57	15 51 0 26	18 45 0 48	10 57 1 57	14 26 0 25 14 27 0 25	18 7 1 39	8 41 12 10	12 13 11 4 12 13 11 4 12 11 11 3	0 18 51	16 20 4 32
S 8 M 9 T 10	22 47 22 53 22 58	3 2 3 53		2 4 13 29 1 56 58 13 53 1 55 51 14 16 1 54	16 28 0 24	18 36 0 48	10 54 1 56	14 28 0 25 14 29 0 25 14 30 0 25	18 9 1 39	-	12 9 11 3	8 18 50 7 18 49 6 18 49	16 18 4 32
-	23 4 23 8 23 12	9 24 0 54 12 46 0s13	24 37 1 24 23 1	43 14 38 1 53 34 15 0 1 51 24 15 22 1 50	17 4 0 22	18 26 0 48	10 50 1 56		18 10 1 39 18 10 1 39	8 41 12 9	12 10 11 3 12 10 11 3 12 10 11 3	3 18 48	16 16 4 32
S 14 S 15 M16	23 16 23 19 23 22	17 37 2 18	23 53 1	1 13 15 44 1 49 1 1 16 5 1 47 0 47 16 26 1 46		18 17 0 48	10 45 1 56		18 11 1 39 18 11 1 39 18 12 1 39			0 18 46	16 14 4 32
T 17 W18	23 24 23 26	19 20 3 56 18 54 4 31	23 20 0 23 4 0	0 32 16 46 1 44 0 16 17 6 1 43	18 2 0 19 18 13 0 19	18 10 0 48 18 7 0 48	10 42 1 55 10 41 1 55	14 36 0 25 14 37 0 25	18 12 1 39 18 13 1 39	8 40 12 8 8 40 12 8	12 4 11 2 12 0 11 2	8 18 45 7 18 44	16 13 4 32 16 12 4 32
F 20	23 28 23 29 23 29	15 39 5 4	22 30 0		18 24 0 18 18 34 0 18 18 45 0 17	18 0 0 48	10 38 1 55	14 39 0 25	18 13 1 39 18 14 1 39 18 14 1 39	8 40 12 8	11 56 11 2 11 52 11 2 11 48 11 2	4 18 43	16 11 4 32
S 22 M23 T 24	23 29 23 28 23 27	6 5 4 14	21 43 1	19 18 40 1 34	19 6 0 16	17 53 0 48 17 49 0 48 17 46 0 48	10 32 1 55	14 41 0 25 14 41 0 25 14 42 0 25		8 40 12 8	11 45 11 2 11 43 11 2 11 42 11 2	1 18 41	16 10 4 32
W25 T 26	23 26 23 24	2s 4 2 40 6 16 1 37	21 15 1 21 2 2	1 57 19 14 1 30 2 15 19 30 1 28	19 26 0 14 19 36 0 14	17 42 0 48 17 38 0 48	10 29 1 54 10 27 1 54	14 43 0 25 14 44 0 25	18 16 1 39 18 16 1 39	8 40 12 7 8 40 12 7	11 41 11 1 11 41 11 1	9 18 40 8 18 39	16 9 4 31 16 8 4 31
F 27 S 28	23 22 23 19	13 53 0n46	20 40 2	2 44 20 1 1 24	19 55 0 13	17 31 0 48	10 23 1 54	14 45 0 25 14 45 0 25	18 17 1 39	8 40 12 7	11 41 11 1	5 18 38	16 7 4 31
M30	23 15 23 12 23 s 7	18 40 3 6	20 23 3	2 56 20 15 1 21 3 5 20 29 1 19 3 n11 20 s43 1 n17	20 14 0 11	17 23 0 48	10 20 1 54	14 47 0 25	18 17 1 39 18 18 1 39 18 18 1 1 39		11 40 11 1 11 39 11 1 11 s36 11 s1	3 18 36	16 6 4 31

Julian Day Number = 2320757.5, Delta T = 49.00 sec Ecliptic obliquity = 23°29'01, Nutation = $0^\circ00'08$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^\circ44'32$, Lahiri = $18^\circ51'33$ Greg. Calendar