

Astrodienst Ephemeris Tables for the year 1682

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 1682 GC 00:00 UT

UAITU	,,,,,, ±,	JOL UC													00.0	0 01
Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(并	В	n	ນ	Ç	ķ	Day
T 1	6 43 53	11궁 5'27	13 ≏ 35	19 х 34	14 × 19	7≈18	15°R47	4°R52	20Υ 9	23≈30	15°R 0	4°R 8	5 m 27	14중14	20 Y 37	T 1
F 2	6 47 50	12° 6'37	26°23	20° 1	15°33	8° 5	15939	4Ω48	20°10	23°32	149559	4Mp 7	5°24	14°21	20°37	F 2
S 3	6 51 46	13° 7'48	8 M .53	20°34	16°48	8°53	15°31	4°44	20°10	23°34	14°57	4° 4	5°21	14°27	20°37	S 3
S 4	6 55 43	14° 8'58	21°11	21°13	18° 3	9°40	15°23	4°39	20°10	23°36	14°56	3°58	5°18	14°34	20°37	S 4
M 5	6 59 39	15°10'08	3 √ 18	21°58	19°18	10°27	15°15	4°35	20°11	23°38	14°55	3°50	5°15	14°41	20°38	M 5
T 6	7 3 36	16°11'19	15°17	22°46	20°33	11°15	15° 7	4°30	20°11	23°39	14°54	3°41	5°12	14°47	20°38	T 6
W 7	7 7 32	17°12'29	27°12	23°39	21°47	12° 2	14°59	4°26	20°11	23°41	14°52	3°31	5° 8	14°54	20°38	W 7
T 8	7 11 29	18°13'39	9 ට 3	24°36	23° 2	12°50	14°51	4°21	20°12	23°43	14°51	3°22	5° 5	15° 1	20°39	T 8
F 9	7 15 26	19°14'48	20°53	25°36	24°17	13°37	14°43	4°16	20°13	23°45	14°50	3°14	5° 2	15° 7	20°39	F 9
S 10	7 19 22	20°15'57	2≈43	26°38	25°32	14°24	14°35	4°12	20°13	23°47	14°49	3° 8	4°59	15°14	20°40	S 10
S 11	7 23 19	21°17'06	14°35	27°44	26°47	15°12	14°27	4° 7	20°14	23°49	14°47	3° 3	4°56	15°21	20°40	S 11
M12	7 27 15	22°18'13	26°32	28°52	28° 1	15°59	14°19	4° 2	20°15	23°51	14°46	3° 2	4°53	15°28	20°41	M12
T 13	7 31 12	23°19'20	8 ∺ 34	0중 2	29°16	16°47	14°11	3°57	20°15	23°53	14°45	3°D 1	4°49	15°34	20°42	T 13
W14	7 35 8	24°20'27	20°47	1°14	0 ට 31	17°34	14° 3	3°53	20°16	23°55	14°43	3° 3	4°46	15°41	20°43	W14
T 15	7 39 5	25°21'32	3 Υ 14	2°28	1°46	18°21	13°55	3°48	20°17	23°57	14°42	3° 4	4°43	15°48	20°44	T 15
F 16	7 43 1	26°22'36	15°58	3°43	3° 1	19° 9	13°47	3°43	20°18	23°59	14°41	3° 6	4°40	15°54	20°45	F 16
S 17	7 46 58	27°23'40	29° 5	5° 0	4°16	19°56	13°40	3°38	20°19	24° 1	14°40	3°R 6	4°37	16° 1	20°46	S 17
S 18	7 50 55	28°24'42	12837	6°18	5°31	20°43	13°32	3°33	20°20	24° 4	14°38	3° 5	4°33	16° 8	20°47	S 18
M19	7 54 51	29°25'44	26°35	7°38	6°45	21°31	13°24	3°28	20°21	24° 6	14°37	3° 3	4°30	16°14	20°48	M19
T 20	7 58 48	0≈26'44	11 I 1	8°59	8° 0	22°18	13°17	3°23	20°22	24° 8	14°36	2°59	4°27	16°21	20°49	T 20
W21	8 2 44	1°27'43	25°50	10°21	9°15	23° 6	13°10	3°18	20°23	24°10	14°35	2°54	4°24	16°28	20°50	W21
T 22	8 6 41	2°28'42	109556	11°43	10°30	23°53	13° 2	3°14	20°25	24°12	14°34	2°50	4°21	16°34	20°51	T 22
F 23	8 10 37	3°29'39	26°11	13° 7	11°45	24°40	12°55	3° 9	20°26	24°14	14°32	2°46	4°18	16°41	20°53	F 23
S 24	8 14 34	4°30'35	11 £ 23	14°32	13° 0	25°28	12°48	3° 4	20°27	24°16	14°31	2°43	4°14	16°48	20°54	S 24
S 25	8 18 30	5°31'30	26°23	15°58	14°15	26°15	12°41	2°59	20°28	24°19	14°30	2°D42	4°11	16°54	20°55	S 25
M26	8 22 27	6°32'24	11 Mp 3	17°25	15°29	27° 2	12°34	2°54	20°30	24°21	14°29	2°42	4° 8	17° 1	20°57	M26
T 27	8 26 24	7°33'18	25°18	18°52	16°44	27°50	12°28	2°49	20°31	24°23	14°28	2°43	4° 5	17° 8	20°58	T 27
W28	8 30 20	8°34'10	9 <u>०</u> 4	20°21	17°59	28°37	12°21	2°44	20°33	24°25	14°26	2°44	4° 2	17°15	21° 0	W28
T 29	8 34 17	9°35'02	22°24	21°50	19°14	29°24	12°15	2°39	20°34	24°27	14°25	2°46	3°59	17°21	21° 2	T 29
F 30	8 38 13	10°35'53	5 M .18	2 <u>3</u> °20	2 <u>0</u> °29	0 ₩12	12° 8	2°34	20°36	24°30	14°24	2°R47	3°55	1 <u>7</u> °28	21° 3	F 30
S 31	8 42 10	11≈36'43	17 M 52	24 궁 51	21 る 44	0 ∺ 59	1295 2	$2\Omega_{30}$	20 Y 38	24≈32	149523	2 M) 47	3 m 52	17 云 35	21 ° 5	S 31

Day	0	D	ğ	Q	♂	4	ħ)∤(¥	Р	n	v	ţ	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
T 1 F 2 S 3	23 s 1 22 56 22 50	6 25 4 3	20 32 2 3	34 21 43 0 59	19 23 1 9		19n37 0n33 19 38 0 33 19 39 0 33		14 10 0 30	22n17 0s21 22 17 0 21 22 17 0 21		9n32 9 33 9 34	18 43	8n24 0n22 8 24 0 22 8 24 0 22
S 4 M 5 T 6 W 7 T 8	22 30 22 22	15 49 5 7 17 41 5 1 18 45 4 42	20 54 2 2 2 2 1 5 2 2 1 17 2 2 2 1 2 2 1 1 1 4 1 1 4 1 1 4 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1	9 22 11 0 52 0 22 20 0 49 51 22 27 0 46	18 44 1 8 18 31 1 8 18 18 1 8	22 50 0 14 22 51 0 14 22 52 0 14	19 40 0 34 19 42 0 34 19 43 0 34 19 44 0 34 19 45 0 34	7 21 0 35 7 21 0 35 7 21 0 35 7 22 0 35 7 22 0 35	14 8 0 30 14 8 0 30 14 7 0 30	22 18 0 21 22 18 0 21 22 18 0 21	10 7 10 10 10 14	9 37 9 38	18 43	8 24 0 21 8 24 0 21 8 24 0 21 8 24 0 21 8 24 0 21
F 9	22 6 21 57	18 25 3 28 17 2 2 37	3 21 52 1 3 7 22 4 1 3	32 22 40 0 41 23 22 46 0 39	17 50 1 7 17 36 1 7	22 54 0 14 22 55 0 14	19 45 0 34 19 46 0 34 19 48 0 34 19 49 0 34	7 22 0 35 7 22 0 35 7 22 0 35 7 23 0 35	14 6 0 30 14 5 0 30	22 19 0 21 22 19 0 21	10 20 10 22	9 40 9 41 9 42 9 43	18 42 18 42	8 24 0 21 8 24 0 21 8 24 0 21 8 24 0 21
M12 T 13 W14 T 15 F 16 S 17	21 38 21 28 21 17 21 6 20 55 20 43	12 8 0 35 8 50 0 830 5 7 1 35 1 7 2 37 3n 1 3 33	5 22 24 1 0 22 34 0 3 5 22 43 0 4 7 22 51 0 3 6 22 58 0 3	4 22 55 0 33 55 22 58 0 31 46 23 1 0 28 37 23 3 0 25 28 23 4 0 23	17 8 1 6 16 53 1 6 16 38 1 6 16 23 1 6 16 8 1 5	22 57 0 15 22 58 0 15 22 59 0 15 23 0 0 15 23 1 0 15	19 50 0 35 19 51 0 35 19 53 0 35 19 54 0 35	7 23 0 35 7 23 0 35 7 24 0 35 7 24 0 35 7 24 0 35 7 25 0 35	14 4 0 30 14 3 0 30 14 2 0 30 14 2 0 30 14 1 0 30	22 19 0 20 22 19 0 20 22 20 0 20 22 20 0 20 22 20 0 20 22 20 0 20	10 25 10 25 10 25 10 24 10 24 10 23 10 23	9 44 9 45 9 47 9 48	18 42 18 41 18 41 18 41 18 41	8 25 0 21 8 25 0 21 8 25 0 20 8 25 0 20 8 25 0 20 8 26 0 20
S 18 M19 T 20 W21 T 22 F 23 S 24	19 38 19 24	14 23 5 11 17 1 5 9 18 37 4 48 18 56 4 6 17 53 3 7	23 13 0 23 16 0s 3 23 18 0 5 23 19 0 2 7 23 19 0 2	2 23 4 0 14 6 23 2 0 12 14 23 0 0 9 21 22 57 0 6 29 22 54 0 4	15 22 1 4 15 7 1 4 14 51 1 4 14 35 1 3 14 18 1 3	23 4 0 16 23 4 0 16 23 5 0 16	19 59 0 35 20 0 0 35 20 1 0 36 20 3 0 36 20 4 0 36	7 27 0 35 7 28 0 35	13 59 0 30 13 58 0 30 13 58 0 30 13 57 0 30 13 56 0 30	22 21 0 20 22 21 0 20	10 23 10 24 10 26 10 27 10 29 10 30 10 31	9 51 9 52 9 54 9 55 9 56 9 57 9 58	18 40 18 40 18 40 18 40 18 39	8 26 0 20 8 26 0 20 8 27 0 20 8 27 0 20 8 27 0 20 8 27 0 20 8 28 0 20 8 28 0 19
S 25 M26 T 27 W28 T 29 F 30 S 31	18 55 18 40 18 25 18 9 17 53 17 36 17 s20	8 8 0n46 3 44 2 1 0 s44 3 7 5 0 4 1 8 55 4 40	5 23 10 0 : 23 5 0 : 7 22 58 1 22 51 1 0 22 41 1	50 22 39 0 4 57 22 32 0 7 3 22 25 0 9 9 22 18 0 12 15 22 9 0 15	13 13 1 2 12 56 1 1 12 39 1 1 12 22 1 0	23 9 0 16 23 10 0 16 23 11 0 17 23 11 0 17 23 12 0 17	20 8 0 36	7 29 0 35 7 30 0 35 7 30 0 35 7 31 0 34 7 32 0 34	13 54 0 30 13 53 0 30 13 53 0 30 13 52 0 30 13 51 0 30	22 22 0 20 22 22 0 19 22 22 0 19 22 22 0 19 22 23 0 19 22 23 0 19	10 32 10 32 10 31 10 31 10 30 10 30 10n30	10 2 10 3 10 4 10 5	18 39 18 39 18 38 18 38 18 38	8 29 0 19 8 29 0 19 8 30 0 19 8 30 0 19 8 31 0 19 8 31 0 19 8 32 0n19

Julian Day Number = 2335398.5, Delta T = 22.53 sec Ecliptic obliquity = $23^{\circ}28'41$, Nutation = - $0^{\circ}00'07$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}18'05$, Lahiri = $19^{\circ}25'06$ Greg. Calendar

FEBRUARY 1682 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ)∤(并	Р	V	Ω	Ç	Ŗ	Day
S 1	8 46 6	12≈37'32	0 ∡ 8	26 궁 23	22 궁 59	1) (46	11°R56	2°R25	20 Y 39	24≈34	14°R22	2°R46	3 m 49	17 ප් 41	21 ° 7	S 1
M 2	8 50 3	13°38'20	12°12	27°55	24°14	2°33	11950	$2\Omega 20$	20°41	24°36	149521	2 M 44	3°46	17°48	21° 9	M 2
T 3	8 53 59	14°39'07	24° 8	29°28	25°29	3°21	11°44	2°15	20°43	24°39	14°20	2°41	3°43	17°55	21°11	T 3
W 4	8 57 56	15°39'53	5 る 58	1≈ 2	26°43	4° 8	11°39	2°10	20°45	24°41	14°19	2°38	3°39	18° 1	21°13	W 4
T 5	9 1 53	16°40'37	17°47	2°37	27°58	4°55	11°33	2° 6	20°47	24°43	14°18	2°35	3°36	18° 8	21°15	T 5
F 6	9 5 49	17°41'21	29°37	4°13	29°13	5°42	11°28	2° 1	20°49	24°45	14°17	2°33	3°33	18°15	21°17	F 6
S 7	9 9 46	18°42'03	11 ≈ 31	5°49	0≈28	6°30	11°23	1°56	20°51	24°48	14°16	2°31	3°30	18°21	21°19	S 7
S 8	9 13 42	19°42'44	23°31	7°27	1°43	7°17	11°18	1°52	20°53	24°50	14°15	2°30	3°27	18°28	21°21	S 8
M 9	9 17 39	20°43'23	5) 37	9° 5	2°58	8° 4	11°13	1°47	20°55	24°52	14°13	2°D30	3°24	18°35	21°23	M 9
T 10	9 21 35	21°44'01	17°52	10°44	4°13	8°51	11° 8	1°43	20°57	24°54	14°13	2°31	3°20	18°41	21°26	T 10
W11	9 25 32	22°44'37	0 Υ 19	12°24	5°28	9°38	11° 4	1°38	20°59	24°57	14°12	2°31	3°17	18°48	21°28	W11
T 12	9 29 28	23°45'12	12°57	14° 4	6°42	10°25	11° 0	1°34	21° 1	24°59	14°11	2°32	3°14	18°55	21°30	T 12
F 13	9 33 25	24°45'44	25°51	15°46	7°57	11°12	10°56	1°30	21° 3	25° 1	14°10	2°33	3°11	19° 1	21°33	F 13
S 14	9 37 22	25°46'15	9 8 2	17°28	9°12	11°59	10°52	1°25	21° 5	25° 3	14° 9	2°34	3° 8	19° 8	21°35	S 14
S 15	9 41 18	26°46'44	22°31	19°12	10°27	12°46	10°48	1°21	21° 8	25° 6	14° 8	2°R34	3° 5	19°15	21°38	S 15
M16	9 45 15	27°47'11	6 Ⅱ 20	20°56	11°42	13°33	10°44	1°17	21°10	25° 8	14° 7	2°34	3° 1	19°22	21°40	M16
T 17	9 49 11	28°47'37	20°30	22°42	12°57	14°20	10°41	1°13	21°12	25°10	14° 6	2°34	2°58	19°28	21°43	T 17
W18	9 53 8	29°48'00	4957	24°28	14°11	15° 7	10°38	1° 9	21°15	25°13	14° 5	2°34	2°55	19°35	21°45	W18
T 19	9 57 4	0) 48′21	19°40	26°15	15°26	15°54	10°35	1° 5	21°17	25°15	14° 4	2°33	2°52	19°42	21°48	T 19
F 20	10 1 1	1°48'41	4Ω 32	28° 3	16°41	16°41	10°32	1° 1	21°20	25°17	14° 4	2°33	2°49	19°48	21°51	F 20
S 21	10 4 57	2°48'58	19°27	29°53	17°56	17°28	10°29	0°57	21°22	25°19	14° 3	2°D33	2°45	19°55	21°53	S 21
S 22	10 8 54	3°49'14	4 Mp 16	1) 43	19°11	18°15	10°27	0°54	21°25	25°22	14° 2	2°R33	2°42	20° 2	21°56	S 22
M23	10 12 51	4°49'28	18°51	3°34	20°25	19° 2	10°25	0°50	21°27	25°24	14° 1	2°33	2°39	20° 8	21°59	M23
T 24	10 16 47	5°49'40	3 ₾ 7	5°26	21°40	19°48	10°23	0°46	21°30	25°26	14° 1	2°33	2°36	20°15	22° 2	T 24
W25	10 20 44	6°49'50	17° 0	7°19	22°55	20°35	10°21	0°43	21°33	25°28	14° 0	2°32	2°33	20°22	22° 5	W25
T 26	10 24 40	7°49'59	0 M 27	9°13	24°10	21°22	10°19	0°39	21°35	25°31	13°59	2°32	2°30	20°28	22° 8	T 26
F 27	10 28 37	8°50'06	13°29	11° 7	25°24	22° 8	10°18	0°36	21°38	25°33	13°58	2°31	2°26	20°35	22°11	F 27
S 28	10 32 33	9 米 50'12	26 ™ 9	13 米 3	26≈39	22 米 55	109516	0 Ω 33	21 Y 41	25 ≈ 35	139558	2 m /31	2 m 23	20 궁 42	22 Y 14	S 28

Day	0	D	ζ	2	φ	♂	2	4	ħ	l)į	ξ(,	(В		n	ß	Ç	Š	
	decl	decl lat	decl	lat dec	lat	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	17 s 3	15 s 5 5n	n15 22 s19	1 s26 21 s50	0 s 2 0 1	11 s47 1 s	0 23n13	0n17	20n15	0n37	7n33	0s34	13 s50	0 s30	22n23	0s19	10n30	10n 7	18 s 3 7	8n32	0n19
M 2	16 45	17 9 5	11 22 6	1 31 21 40	0 22 1	11 30 0 5	9 23 14	0 17	20 16	0 37	7 34	0 34	13 49	0 30	22 23	0 19	10 31	10 9	18 37	8 33	0 19
T 3	16 28	18 27 4	54 21 51	1 36 21 29	0 25 1	11 12 0 5	9 23 15	0 17	20 17	0 37	7 34	0 34	13 48	0 30	22 23	0 19	10 32	10 10	18 37	8 34	0 18
W 4	16 10	18 57 4	24 21 35	1 40 21 1	0 27 1	10 55 0 5	8 23 15	0 17	20 18	0 37	7 35	0 34	13 47	0 30	22 24	0 19	10 33	10 11	18 37	8 34	0 18
T 5	15 52	18 37 3	43 21 18	1 44 21 :	0 29 1	10 37 0 5	8 23 16	0 17	20 20	0 37	7 36	0 34	13 47	0 30	22 24	0 19	10 34	10 12	18 36	8 35	0 18
F 6	15 33	17 27 2	52 20 59	1 48 20 5	0 32 1	10 19 0 5	7 23 16	0 17	20 21	0 37	7 37	0 34	13 46	0 30	22 24	0 19	10 35	10 13	18 36	8 36	0 18
S 7	15 15	15 32 1	54 20 39	1 51 20 3	0 34 1	10 2 0 5	7 23 17	0 18	20 22	0 37	7 37	0 34	13 45	0 30	22 24	0 19	10 36	10 14	18 36	8 36	0 18
S 8	14 56	12 55 0	50 20 17	1 55 20 24	0 36	9 44 0 5	7 23 17	0 18	20 23	0 37	7 38	0 34	13 44	0 30	22 24	0 19	10 36	10 16	18 36	8 37	0 18
M 9	14 37	9 44 0s	s17 19 54	1 57 20	0 39	9 26 0 5	6 23 18	0 18	20 24	0 37	7 39	0 34	13 44	0 30	22 25	0 19	10 36	10 17	18 35	8 38	0 18
T 10	14 17	6 6 1	24 19 30	2 0 19 5	0 41	9 7 0 5	6 23 18	0 18	20 25	0 37	7 40	0 34	13 43	0 30	22 25	0 19	10 36	10 18	18 35	8 39	0 18
W11	13 57	2 9 2	28 19 4	2 2 19 3	0 43	8 49 0 5	5 23 19	0 18	20 26	0 38	7 41	0 34	13 42	0 30	22 25	0 18	10 36	10 19	18 35	8 39	0 18
T 12	13 37	1n57 3	26 18 36	2 3 19 2	0 45	8 31 0 5	5 23 19	0 18	20 27	0 38	7 41	0 34	13 41	0 30	22 25	0 18	10 35	10 20	18 35	8 40	0 18
F 13	13 17	6 3 4	15 18 7	2 5 19	0 47	8 13 0 5	4 23 20	0 18	20 28	0 38	7 42	0 34	13 41	0 30	22 25	0 18	10 35	10 21	18 34	8 41	0 18
S 14	12 57	9 55 4	51 17 37	2 6 18 4	0 49	7 54 0 5	4 23 20	0 18	20 29	0 38	7 43	0 34	13 40	0 30	22 25	0 18	10 35	10 22	18 34	8 42	0 17
S 15	12 36	13 23 5	13 17 5	2 6 18 2	0 51	7 36 0 5	3 23 21	0 18	20 30	0 38	7 44	0 34	13 39	0 30	22 26	0 18	10 35	10 24	18 34	8 43	0 17
M16	12 16	16 12 5	17 16 32	2 6 18 10	0 53	7 17 0 5	3 23 21	0 18	20 31	0 38	7 45	0 34	13 38	0 30	22 26	0 18	10 35	10 25	18 33	8 44	0 17
T 17	11 55	18 7 5	2 15 57	2 6 17 50	0 55	6 59 0 5	2 23 21	0 18	20 32	0 38	7 46	0 34	13 38	0 30	22 26	0 18	10 35	10 26	18 33	8 44	0 17
W18	11 34	18 55 4	28 15 21	2 5 17 3	0 57	6 40 0 5	2 23 22	0 19	20 33	0 38	7 47	0 34	13 37	0 30	22 26	0 18	10 35	10 27	18 33	8 45	0 17
T 19	11 12	18 28 3	37 14 44	2 4 17 10	0 59	6 21 0 5	1 23 22	0 19	20 34	0 38	7 48	0 34	13 36	0 30	22 26	0 18	10 35	10 28	18 32	8 46	0 17
F 20	10 51	16 44 2	30 14 5	2 2 16 50	1 1	6 3 0 5	1 23 22	0 19	20 35	0 38	7 49	0 34	13 35	0 30	22 26	0 18	10 35	10 29	18 32	8 47	0 17
S 21	10 29	13 52 1	12 13 24	2 0 16 2	3 1 2	5 44 0 5	0 23 22	0 19	20 36	0 38	7 50	0 34	13 35	0 30	22 27	0 18	10 35	10 30	18 32	8 48	0 17
S 22	10 7	10 7 On	n 9 12 42	1 57 16	1 4	5 25 0 5	0 23 23	0 19	20 37	0 38	7 51	0 34	13 34	0 30	22 27	0 18	10 35	10 32	18 32	8 49	0 17
M23	9 45	5 47 1	29 11 59	1 54 15 43	1 6	5 6 0 4	9 23 23	0 19	20 38	0 38	7 52	0 34	13 33	0 30	22 27	0 18	10 35	10 33	18 31	8 50	0 17
T 24	9 23	1 14 2	42 11 14	1 50 15 22	1 7	4 48 0 4	9 23 23	0 19	20 39	0 38	7 53	0 34	13 32	0 30	22 27	0 18	10 35	10 34	18 31	8 51	0 17
W25	9 1	3 s 1 5 3	43 10 28	1 46 14 59	1 9	4 29 0 4	8 23 23	0 19	20 39	0 38	7 54	0 34	13 32	0 30	22 27	0 17	10 35	10 35	18 31	8 52	0 16
T 26	8 39	7 27 4	29 9 41	1 41 14 30	1 10	4 10 0 4	8 23 24	0 19	20 40	0 39	7 55	0 34	13 31	0 30	22 27	0 17	10 35	10 36	18 30	8 53	0 16
F 27	8 16	11 8 5	0 8 52	1 35 14 12	1 12	3 51 0 4	7 23 24	0 19	20 41	0 39	7 56	0 34	13 30	0 30	22 27	0 17	10 36	10 37	18 30	8 54	0 16
S 28	7 s54	14 s12 5n	n16 8s 3	1 s29 13 s4	1 s13	3 s32 0 s4	7 23n24	0n19	20n42	0n39	7n57	0s34	13 s29	0 s30	22n28	0s17	10n36	10n38	18 s 3 0	8n55	0n16

Julian Day Number = 2335429.5, Delta T = 22.49 sec

Ecliptic obliquity = 23°28'42, Nutation = -0°00'06, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°18'09, Lahiri = 19°25'10Greg. Calendar

MARCH 1682 GC 00:00 UT

PIAN	, 100 <i>t</i>	- uc													00.0	0 0 1
Day	Sid.t	0	D	ğ	Ş	♂	4	ħ)∤(并	Р	n	u	Ç	ķ	Day
S 1	10 36 30	10) 50'16	8 ∡ ³30	14) (59	27≈54	23) (42	10°R15	0°R30	21Υ44	25≈37	13°R57	2°D30	2 Mp 20	20중48	22 Υ 17	S 1
M 2	10 40 26	11°50'18	20°35	16°55	29° 9	24°28	109915	$0\Omega 27$	21°46	25°40	13957	2 m y31	2°17	20°55	22°20	M 2
T 3	10 44 23	12°50'19	2 ප 31	18°52	0 ∺ 23	25°15	10°14	0°24	21°49	25°42	13°56	2°31	2°14	21° 2	22°23	T 3
W 4	10 48 19	13°50'19	14°21	20°49	1°38	26° 1	10°13	0°21	21°52	25°44	13°55	2°32	2°10	21° 8	22°26	W 4
T 5	10 52 16	14°50'16	26°10	22°46	2°53	26°48	10°13	0°18	21°55	25°46	13°55	2°33	2° 7	21°15	22°29	T 5
F 6	10 56 13	15°50'12	8≈ 2	24°43	4° 7	27°34	10°D13	0°15	21°58	25°48	13°54	2°35	2° 4	21°22	22°32	F 6
S 7	11 0 9	16°50'06	20° 1	26°39	5°22	28°21	10°13	0°13	22° 1	25°50	13°54	2°35	2° 1	21°28	22°35	S 7
S 8	11 4 6	17°49'58	2 ∺ 9	28°35	6°37	29° 7	10°14	0°10	22° 4	25°53	13°53	2°R36	1°58	21°35	22°39	S 8
M 9	11 8 2	18°49'48	14°28	0 Υ 30	7°51	29°53	10°14	0° 8	22° 7	25°55	13°53	2°35	1°55	21°42	22°42	M 9
T 10	11 11 59	19°49'36	27° 0	2°23	9° 6	0 Υ 40	10°15	0° 5	22°10	25°57	13°53	2°34	1°51	21°48	22°45	T 10
W11	11 15 55	20°49'22	9 Υ 46	4°14	10°21	1°26	10°16	0° 3	22°13	25°59	13°52	2°32	1°48	21°55	22°49	W11
T 12	11 19 52	21°49'06	22°46	6° 2	11°35	2°12	10°17	0° 1	22°16	26° 1	13°52	2°29	1°45	22° 2	22°52	T 12
F 13	11 23 48	22°48'48	6 8 0	7°48	12°50	2°58	10°18	299559	22°19	26° 3	13°51	2°26	1°42	22° 8	22°55	F 13
S 14	11 27 45	23°48'28	19°27	9°31	14° 5	3°45	10°20	29°57	22°22	26° 5	13°51	2°23	1°39	22°15	22°59	S 14
S 15	11 31 42	24°48'05	3 II 6	11°10	15°19	4°31	10°21	29°55	22°25	26° 7	13°51	2°21	1°36	22°22	23° 2	S 15
M16	11 35 38	25°47'41	16°58	12°45	16°34	5°17	10°23	29°54	22°28	26° 9	13°50	2°20	1°32	22°29	23° 6	M16
T 17	11 39 35	26°47'13	195 0	14°15	17°48	6° 3	10°25	29°52	22°31	26°11	13°50	2°D20	1°29	22°35	23° 9	T 17
W18	11 43 31	27°46'44	15°12	15°40	19° 3	6°49	10°27	29°51	22°35	26°13	13°50	2°20	1°26	22°42	23°13	W18
T 19	11 47 28	28°46'12	29°33	17° 0	20°18	7°35	10°30	29°49	22°38	26°15	13°50	2°22	1°23	22°49	23°16	T 19
F 20	11 51 24	29°45'38	13 N 58	18°13	21°32	8°21	10°32	29°48	22°41	26°17	13°50	2°23	1°20	22°55	23°20	F 20
S 21	11 55 21	0 Υ 45'01	28°25	19°21	22°47	9° 6	10°35	29°47	22°44	26°19	13°49	2°R24	1°16	23° 2	23°23	S 21
S 22	11 59 17	1°44'23	12 m /49	20°22	24° 1	9°52	10°38	29°46	22°48	26°21	13°49	2°24	1°13	23° 9	23°27	S 22
M23	12 3 14	2°43'42	27° 4	21°16	25°16	10°38	10°41	29°45	22°51	26°23	13°49	2°22	1°10	23°15	23°31	M23
T 24	12 7 11	3°42'58	11 ♀ 7	22° 4	26°30	11°24	10°45	29°44	22°54	26°25	13°49	2°19	1° 7	23°22	23°34	T 24
W25	12 11 7	4°42'13	24°52	22°44	27°44	12° 9	10°48	29°43	22°57	26°27	13°49	2°14	1° 4	23°29	23°38	W25
T 26	12 15 4	5°41'26	8 M .16	23°17	28°59	12°55	10°52	29°42	23° 1	26°29	13°49	2° 9	1° 1	23°35	23°42	T 26
F 27	12 19 0	6°40'37	21°20	23°43	0 Υ 13	13°41	10°56	29°42	23° 4	26°31	13°D49	2° 3	0°57	23°42	23°45	F 27
S 28	12 22 57	7°39'47	4 ₹ 2	24° 2	1°28	14°26	11° 0	29°42	23° 7	26°33	13°49	1°58	0°54	23°49	23°49	S 28
S 29	12 26 53	8°38'54	16°25	24°13	2°42	15°12	11° 4	29°41	23°11	26°34	13°49	1°54	0°51	23°55	23°53	S 29
M30	12 30 50	9°38'00	28°33	24°R17	3°57	15°57	11° 8	29°41	23°14	26°36	13°49	1°52	0°48	24° 2	23°56	M30
T 31	12 34 46	10 ° 37'04	10 궁 30	24 Y 14	5 Υ 11	16 Ƴ 42	119513	29°D41	23 Y 18	26≈38	139549	1°D51	0 m 45	24 る 9	24 Υ 0	T 31

Day	0	D	ğ	·	ď	4	ħ)Å(¥	Р	R	v t	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	lecl decl	decl lat
S 1		16 s33 5n16				23n24 0n19					10n36 10		8n56 0n16
M 2	7 8	18 7 5 2	6 20 1 1				20 43 0 39	7 59 0 34	13 28 0 30	22 28 0 17			8 57 0 16
T 3	6 45	18 52 4 35		7 12 33 1 17		23 24 0 19	20 44 0 39	8 0 0 34	13 27 0 30	22 28 0 17	10 36 10	42 18 29	8 58 0 16
W 4	6 22	18 47 3 57	4 33 0 5	9 12 7 1 18	2 16 0 45	23 24 0 20	20 44 0 39	8 1 0 33	13 26 0 30	22 28 0 17	10 35 10	43 18 28	8 59 0 16
T 5	5 59	17 52 3 9	3 38 0 5	0 11 41 1 19	1 57 0 44	23 25 0 20	20 45 0 39	8 2 0 33	13 26 0 30	22 28 0 17	10 35 10	44 18 28	9 0 0 16
F 6	5 36	16 10 2 12	2 43 0 4	0 11 15 1 20	1 38 0 44	23 25 0 20	20 46 0 39	8 3 0 33	13 25 0 30	22 28 0 17	10 34 10	45 18 28	9 2 0 16
S 7	5 12	13 44 1 9	1 48 0 3	0 10 49 1 21	1 19 0 43	23 25 0 20	20 46 0 39	8 4 0 33	13 24 0 30	22 28 0 17	10 34 10	46 18 27	9 3 0 16
S 8	4 49	10 41 0 3	0 52 0 2	0 10 22 1 22	1 0 0 42	23 25 0 20	20 47 0 39	8 5 0 33	13 23 0 30	22 29 0 17	10 34 10	48 18 27	9 4 0 16
M 9	4 26	7 8 1s 5	0n 4 0	9 9 55 1 22		23 25 0 20	20 48 0 39			22 29 0 17	10 34 10	49 18 26	9 5 0 15
T 10	4 2	3 12 2 11	0 59 On	3 9 27 1 23			20 48 0 39	8 8 0 33				50 18 26	9 6 0 15
W11	3 39	0n57 3 11	1 55 0 1		-	23 25 0 20						51 18 26	9 7 0 15
T 12	3 15	5 7 4 3	2 49 0 2			23 25 0 20		8 10 0 33				52 18 25	9 8 0 15
F 13	2 51	9 6 4 42	3 42 0 3			23 25 0 20		8 11 0 33				53 18 25	9 10 0 15
S 14	2 28	12 41 5 7	4 35 0 5				20 50 0 39	8 12 0 33				54 18 25	9 11 0 15
S 15	2 4	15 40 5 15	5 25 1	5 7 7 1 26	1 12 0 38	23 25 0 20	20 50 0 39	8 14 0 33	13 19 0 31	22 29 0 16	10 39 10	56 18 24	9 12 0 15
M16	1 40	17 47 5 5	6 14 1 1		1 31 0 38			8 15 0 33				57 18 24	9 13 0 15
T 17	1 17	18 52 4 36	-		1 50 0 37			8 16 0 33				58 18 23	9 14 0 15
W18	-	18 47 3 51	7 45 1 4			23 24 0 20		8 17 0 33				59 18 23	9 16 0 15
T 19		17 30 2 51	8 27 1 5			23 24 0 20		8 18 0 33			10 39 11	0 18 23	9 17 0 15
F 20	0 6	15 4 1 40		6 4 42 1 27			20 52 0 39	8 20 0 33			10 38 11	1 18 22	9 18 0 14
S 21		11 42 0 22	/ 0 -				20 52 0 40				10 38 11	-	9 19 0 14
S 22	0 42	7 38 0n57	10 15 2 2	8 3 43 1 27	3 23 0 34	23 24 0 21	20 53 0 40	8 22 0 33	13 14 0 31	22 30 0 16	10 38 11	3 18 21	9 21 0 14
M23	1 5	3 10 2 11	10 45 2 3			23 23 0 21		8 23 0 33			10 39 11		9 22 0 14
T 24	1 29	1 s 2 4 3 1 6				23 23 0 21		8 24 0 33			10 40 11	6 18 21	9 23 0 14
W25	1 52	5 47 4 8		4 2 13 1 26		23 23 0 21		8 26 0 33			10 40 11		
T 26	2 16	9 47 4 45		1 1 43 1 26		23 23 0 21		8 27 0 33			10 44 11		
F 27	-			7 1 13 1 26		23 22 0 21		8 28 0 33			10 44 11		
S 28	3 3	15 53 5 11		2 0 43 1 25		23 22 0 21						10 18 19	9 28 0 14
S 29	3 26	17 47 5 2	12 26 3 1	5 0 13 1 25	5 32 0 30	23 22 0 21	20 54 0 40	8 31 0 33	13 10 0 31	22 30 0 15	10 49 11	11 18 18	9 30 0 14
M30			12 29 3 1			23 21 0 21		8 32 0 33				13 18 18	
T 31			12n28 3n1				20n54 0n40					n14 18s18	
1 31	71113	1/3 1 711 7	121120 3111	/ 0114/ 1324	011 0 0329	231121 01121	201134 01140	01100 0300	155 0 0351	221131 0313	101130 11	111 7 10310	71132 01114

Julian Day Number = 2335457.5, Delta T = 22.44 sec Ecliptic obliquity = $23^{\circ}28'42$, Nutation = - $0^{\circ}00'07$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}18'13$, Lahiri = $19^{\circ}25'14$ Greg. Calendar

APRIL 1682 GC 00:00 UT

Day	Sid.t	0	D	ğ	Q	ď	4	ħ)∤(并	Р	n	Ω	Ç	Ŗ	Day
W 1	12 38 43	11 Y 36'06	22 3 21	24°R 5	6 Υ 25	17 Y 28	119518	299541	23 Y 21	26≈40	139549	1 m/52	0 Mp 42	24 궁 15	24 Y 4	W 1
T 2	12 42 39	12°35'06	4≈11	23 Y 49	7°40	18°13	11°22	29°41	23°24	26°42	13°49	1°53	0°38	24°22	24° 8	T 2
F 3	12 46 36	13°34'05	16° 4	23°28	8°54	18°58	11°28	29°41	23°28	26°43	13°50	1°55	0°35	24°29	24°11	F 3
S 4	12 50 33	14°33'01	28° 7	23° 1	10° 8	19°44	11°33	29°42	23°31	26°45	13°50	1°R56	0°32	24°35	24°15	S 4
S 5	12 54 29	15°31'56	10 ∺ 22	22°29	11°23	20°29	11°38	29°42	23°35	26°47	13°50	1°55	0°29	24°42	24°19	S 5
M 6	12 58 26	16°30'49	22°52	21°53	12°37	21°14	11°44	29°43	23°38	26°48	13°50	1°53	0°26	24°49	24°23	M 6
T 7	13 2 22	17°29'40	5 Ƴ 41	21°14	13°51	21°59	11°49	29°43	23°41	26°50	13°50	1°49	0°22	24°55	24°26	T 7
W 8	13 6 19	18°28'29	18°48	20°32	15° 6	22°44	11°55	29°44	23°45	26°51	13°51	1°43	0°19	25° 2	24°30	W 8
T 9	13 10 15	19°27'16	2812	19°49	16°20	23°29	12° 1	29°45	23°48	26°53	13°51	1°35	0°16	25° 9	24°34	T 9
F 10	13 14 12	20°26'01	15°52	19° 5	17°34	24°14	12° 7	29°46	23°52	26°55	13°51	1°27	0°13	25°15	24°38	F 10
S 11	13 18 8	21°24'44	29°44	18°20	18°48	24°59	12°14	29°47	23°55	26°56	13°52	1°19	0°10	25°22	24°42	S 11
S 12	13 22 5	22°23'25	13 Ⅱ 45	17°37	20° 3	25°44	12°20	29°48	23°59	26°58	13°52	1°12	0° 7	25°29	24°46	S 12
M13	13 26 2	23°22'03	27°51	16°55	21°17	26°28	12°27	29°50	24° 2	26°59	13°52	1° 7	0° 3	25°35	24°49	M13
T 14	13 29 58	24°20'40	119559	16°15	22°31	27°13	12°33	29°51	24° 6	27° 0	13°53	1° 5	0° 0	25°42	24°53	T 14
W15	13 33 55	25°19'14	26° 8	15°38	23°45	27°58	12°40	29°53	24° 9	27° 2	13°53	1°D 4	29 Ω 57	25°49	24°57	W15
T 16	13 37 51	26°17'46	10 Ω 16	15° 5	24°59	28°42	12°47	29°54	24°12	27° 3	13°54	1° 5	29°54	25°55	25° 1	T 16
F 17	13 41 48	27°16'16	24°22	14°35	26°14	29°27	12°54	29°56	24°16	27° 5	13°54	1°R 6	29°51	26° 2	25° 5	F 17
S 18	13 45 44	28°14'43	8 m 24	14°10	27°28	0811	13° 2	29°58	24°19	27° 6	13°55	1° 5	29°47	26° 9	25° 8	S 18
S 19	13 49 41	29°13'08	22°20	13°49	28°42	0°56	13° 9	29°59	24°23	27° 7	13°55	1° 4	29°44	26°15	25°12	S 19
M20	13 53 37	0 8 11'32	6 ₽ 10	13°33	29°56	1°40	13°17	0 Ω 2	24°26	27° 9	13°56	0°59	29°41	26°22	25°16	M20
T 21	13 57 34	1° 9'53	19°49	13°22	1810	2°25	13°24	0° 4	24°30	27°10	13°56	0°52	29°38	26°29	25°20	T 21
W22	14 1 31	2° 8'12	3 M .15	13°16	2°24	3° 9	13°32	0° 7	24°33	27°11	13°57	0°43	29°35	26°35	25°24	W22
T 23	14 5 27	3° 6'30	16°26	13°D15	3°38	3°53	13°40	0° 9	24°36	27°12	13°58	0°33	29°32	26°42	25°27	T 23
F 24	14 9 24	4° 4'46	29°20	13°18	4°52	4°37	13°48	0°11	24°40	27°13	13°58	0°22	29°28	26°49	25°31	F 24
S 25	14 13 20	5° 3'00	11 ×7 57	13°27	6° 6	5°22	13°56	0°14	24°43	27°14	13°59	0°11	29°25	26°55	25°35	S 25
S 26	14 17 17	6° 1'12	24°18	13°40	7°20	6° 6	14° 5	0°17	24°47	27°16	14° 0	0° 3	29°22	27° 2	25°39	S 26
M27	14 21 13	6°59'24	6 ප 25	13°58	8°34	6°50	14°13	0°19	24°50	27°17	14° 0	29 N 56	29°19	27° 9	25°43	M27
T 28	14 25 10	7°57'33	18°22	14°20	9°48	7°34	14°22	0°22	24°53	27°18	14° 1	29°52	29°16	27°15	25°46	T 28
W29	14 29 6	8°55'41	0≈12	14°47	11° 2	8°18	14°30	0°25	24°57	27°19	14° 2	29°50	29°13	2 <u>7°</u> 22	25°50	W29
T 30	14 33 3	9 8 53'48	12 ≈ 2	15 Y 18	12816	9 8 2	14939	$0\Omega_{28}$	25 ° 0	27≈20	1495 3	29°D50	29 N 9	27 云 29	25 Y 54	T 30

Day	0	D		ğ	φ		ď		2	+	ħ	ì)į	j(4	7	Е)	n	v	ţ	ď	;
	decl	decl lat	dec	l lat	decl	at (lecl la	at	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	4n36	18 s 21 3 n	19 12n2	4 3n16	1n17	1 s23	n26	0 s28	23n21	0n21	20n54	0n40	8n34	0 s33	13 s 8	0 s31	22n31	0s15	10n50	11n15	18s17	9n34	0n14
T 2	4 59	16 54 2	25 12 1:	5 3 14	1 47	1 22 6	44	0 28	23 20	0 21	20 54	0 40	8 36	0 33	13 7	0 31	22 31	0 15	10 49	11 16	18 17	9 35	0 13
F 3	5 22	14 41 1	25 12	3 9	2 17	1 21 7	2	0 27	23 20	0 21	20 54	0 40	8 37	0 33	13 7	0 31	22 31	0 15	10 49	11 17	18 16	9 36	0 13
S 4	5 45	11 50 0	21 11 4	8 3 3	2 47	1 21 7	19	0 26	23 20	0 21	20 54	0 40	8 38	0 33	13 6	0 31	22 31	0 15	10 48	11 18	18 16	9 37	0 13
S 5	6 7	8 24 0s	346 11 2	9 2 56	3 17	1 20 7	37	0 26	23 19	0 21	20 54	0 40	8 40	0 33	13 6	0 31	22 31	0 15	10 48	11 19	18 15	9 39	0 13
M 6	6 30	4 32 1	51 11	7 2 47	3 47	1 19 7	54	0 25	23 19	0 21	20 54	0 40	8 41	0 33	13 5	0 31	22 31	0 15	10 49	11 20	18 15	9 40	0 13
T 7	6 53	0 23 2	52 10 4	3 2 37	4 17	1 18 8	12	0 25	23 18	0 21	20 54	0 40	8 42	0 33	13 5	0 31	22 31	0 15	10 51	11 22	18 14	9 41	0 13
W 8	7 15	3n54 3	46 10 1	5 2 25	4 47	1 17 8			23 18	0 21		0 40	8 43	0 33	13 4	0 31	22 31			11 23		9 43	0 13
T 9	7 38	8 4 4	28 9 4	8 2 12	5 16	1 15 8			23 17	0 21	20 53	0 40	8 45	0 33	13 4	0 31	22 31			11 24		9 44	0 13
F 10	8 0		56 9 1		5 46	1 14 9			23 17	0 21		0 40	8 46				22 31			11 25		9 45	0 13
S 11	8 22	15 8 5	7 8 4	7 1 43	6 15	1 13 9	21	0 22	23 16	0 21	20 53	0 40	8 47	0 33	13 3	0 31	22 31	0 14	11 1	11 26	18 12	9 47	0 13
S 12	-	17 32 5	0 8 1		6 45				23 16		20 53	0 40	8 48				_	0 14			18 12	9 48	0 13
M13			35 7 4		7 14				23 15	0 22		0 40	8 50		-	0 31	_	0 14		11 28	-	9 49	0 13
T 14			53 7 1		7 43				23 15	0 22		0 40	8 51	0 33	-	0 31		0 14				9 51	0 13
W15		-	56 6 4		8 11	1 7 10			23 14	0 22		0 40	8 52			0 31	_	0 14			18 10	9 52	0 12
T 16			49 6 1	-	8 40				23 13	0 22		0 40	8 54	0 33		0 31	22 31	0 14		-	18 10	9 53	0 12
F 17			36 5 5		9 8	1 4 11			23 13	0 22		0 40	8 55			0 31	_	0 14		11 33		9 55	0 12
S 18	10 52	9 2 On	139 5 2	5 0s12	9 37	1 3 11	17	0 18	23 12	0 22	20 51	0 40	8 56	0 33	12 59	0 31	22 31	0 14	11 6	11 34	18 9	9 56	0 12
S 19	11 13	4 45 1	51 5	0 28	10 5	1 1 11			23 11		20 50	0 40	8 57	0 33	12 59	0 31	22 31	0 14		11 35		9 57	0 12
M20	11 33	0 15 2	56 4 4			0 59 11			23 11	0 22		0 40	8 59		12 58		22 31	0 14			18 8	9 59	0 12
T 21	11 54		50 4 2			0 58 12			23 10		20 49	0 40	9 0		12 58		22 31			11 37		10 0	0 12
W22	12 14				11 27	0 56 12		0 15		0 22		0 40	9 1		12 58		22 31			11 38		10 1	0 12
T 23	_		55 3 5			0 54 12		0 14		0 22		0 40	9 2		12 57		22 31			11 39		-	0 12
F 24	12 54		3 3 4		12 21	0 52 12		0 14		0 22		0 40	9 4				22 31			11 41	18 6	10 4	0 12
S 25	13 14	17 21 4	57 3 3	7 1 51	12 47	0 50 13	7	0 13	23 7	0 22	20 47	0 40	9 5	0 33	12 57	0 31	22 31	0 13	11 25	11 42	18 5	10 5	0 12
S 26		-	37 3 3		13 13	0 48 13		0 12			20 47	0 40	9 6	0 33	12 56		22 31			11 43		10 7	0 12
M27		19 15 4	5 3 2		13 39			0 12		0 22		0 40	9 7		12 56		22 31			11 44		10 8	0 12
T 28			22 3 2		14 4	0 44 13		0 11		0 22		0 40	9 9		12 56		22 31			11 45		10 9	0 11
W29	14 30	17 41 2			14 30	0 42 14	-	0 11		0 22		0 40	9 10		12 55		22 31			11 46		10 10	0 11
T 30	14n48	15 s43 1n	133 3n3	5 2 s 3 8	14n54	0 s40 14	n22	0s10	23n 2	0n22	20n44	0n40	9n11	0 s33	12 s 5 5	0 s32	22n31	0s13	11n33	11n47	18s 3	10n12	0n11

Julian Day Number = 2335488.5, Delta T = 22.40 sec Ecliptic obliquity = 23°28'43, Nutation = -0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^\circ18'17$, Lahiri = $19^\circ25'18$ Greg. Calendar

MAY 1682 GC 00:00 UT

1.11	TUUL (10													00.0	0 0.
Day	Sid.t	0	D	ğ	·	ð	4	ħ)∤(并	В	N.	v	Ç	Ŷ,	Day
F 1	14 37 0	10851'53	23≈56	15 Y 53	13830	9 8 45	149548	0Ω31	25 Υ 4	27≈21	1499 3	29°R50	29⋒ 6	27 云 35	25 Υ 58	F 1
S 2	14 40 56	11°49'57	5 ¥ 59	16°32	14°44	10°29	14°57	0°35	25° 7	27°22	14° 4	29 £ 50	29° 3	27°42	26° 1	S 2
S 3	14 44 53	12°47'59	18°18	17°14	15°58	11°13	15° 6	0°38	25°10	27°22	14° 5	29°49	29° 0	27°49	26° 5	S 3
M 4	14 48 49	13°46'00	0 Ƴ 55	18° 1	17°12	11°57	15°16	0°41	25°13	27°23	14° 6	29°45	28°57	27°55	26° 9	M 4
T 5	14 52 46	14°43'59	13°55	18°50	18°26	12°40	15°25	0°45	25°17	27°24	14° 7	29°39	28°53	28° 2	26°12	T 5
W 6	14 56 42	15°41'57	27°17	19°43	19°40	13°24	15°34	0°49	25°20	27°25	14° 8	29°30	28°50	28° 9	26°16	W 6
T 7	15 0 39	16°39'54	118 3	20°40	20°54	14° 7	15°44	0°52	25°23	27°26	14° 9	29°20	28°47	28°15	26°20	T 7
F 8	15 4 35	17°37'49	25° 7	21°39	22° 8	14°51	15°54	0°56	25°27	27°26	14°10	29° 8	28°44	28°22	26°23	F 8
S 9	15 8 32	18°35'43	9П26	22°41	23°21	15°34	16° 3	1° 0	25°30	27°27	14°11	28°57	28°41	28°29	26°27	S 9
S 10	15 12 28	19°33'35	23°53	23°47	24°35	16°18	16°13	1° 4	25°33	27°28	14°12	28°47	28°38	28°35	26°31	S 10
M11	15 16 25	20°31'25	89522	24°55	25°49	17° 1	16°23	1°8	25°36	27°29	14°13	28°40	28°34	28°42	26°34	M11
T 12	15 20 22	21°29'14	22°47	26° 6	27° 3	17°44	16°33	1°12	25°39	27°29	14°14	28°35	28°31	28°49	26°38	T 12
W13	15 24 18	22°27'01	7 Ω 5	27°19	28°17	18°28	16°43	1°17	25°43	27°30	14°15	28°33	28°28	28°55	26°41	W13
T 14	15 28 15	23°24'46	21°13	28°35	29°31	19°11	16°54	1°21	25°46	27°30	14°16	28°32	28°25	29° 2	26°45	T 14
F 15	15 32 11	24°22'30	5 m) 11	29°54	0 Ⅱ 44	19°54	17° 4	1°25	25°49	27°31	14°17	28°32	28°22	29° 9	26°48	F 15
S 16	15 36 8	25°20'11	18°58	1815	1°58	20°37	17°14	1°30	25°52	27°31	14°18	28°32	28°19	29°15	26°52	S 16
S 17	15 40 4	26°17'52	2 ₽ 34	2°39	3°12	21°20	17°25	1°34	25°55	27°32	14°19	28°29	28°15	29°22	26°55	S 17
M18	15 44 1	27°15'30	16° 0	4° 5	4°26	22° 3	17°36	1°39	25°58	27°32	14°20	28°23	28°12	29°29	26°59	M18
T 19	15 47 57	28°13'08	29°16	5°33	5°39	22°46	17°46	1°44	26° 1	27°32	14°21	28°15	28° 9	29°35	27° 2	T 19
W20	15 51 54	29°10'43	12 M 20	7° 4	6°53	23°29	17°57	1°49	26° 4	27°33	14°22	28° 4	28° 6	29°42	27° 5	W20
T 21	15 55 51	0耳 8'18	25°11	8°38	8° 7	24°11	18° 8	1°53	26° 7	27°33	14°24	27°51	28° 3	29°49	27° 9	T 21
F 22	15 59 47	1° 5'51	7 . ₹50	10°13	9°21	24°54	18°19	1°58	26°10	27°33	14°25	27°38	27°59	29°55	27°12	F 22
S 23	16 3 44	2° 3'24	20°16	11°51	10°34	25°37	18°30	2° 3	26°13	27°34	14°26	27°26	27°56	0≈ 2	27°15	S 23
S 24	16 7 40	3° 0'55	2 る 29	13°32	11°48	26°20	18°41	2° 9	26°16	27°34	14°27	27°15	27°53	0° 9	27°19	S 24
M25	16 11 37	3°58'25	14°31	15°15	13° 2	27° 2	18°52	2°14	26°19	27°34	14°28	27° 6	27°50	0°15	27°22	M25
T 26	16 15 33	4°55'55	26°25	17° 0	14°15	27°45	19° 3	2°19	26°22	27°34	14°30	27° 1	27°47	0°22	27°25	T 26
W27	16 19 30	5°53'23	8≈14	18°47	15°29	28°27	19°15	2°24	26°25	27°34	14°31	26°57	27°44	0°29	27°28	W27
T 28	16 23 27	6°50'51	20° 2	20°37	16°43	29°10	19°26	2°30	26°28	27°34	14°32	26°56	27°40	0°35	27°32	T 28
F 29	16 27 23	7°48'18	1 米 55	22°29	17°56	29°52	19°37	2°35	26°30	27°34	14°34	26°56	27°37	0°42	27°35	F 29
S 30	16 31 20	8°45'44	13°58	24°24	19°10	0 Ⅱ 34	19°49	2°41	26°33	27°R35	14°35	26°56	27°34	0°49	27°38	S 30
S 31	16 35 16	9 Ⅱ 43'09	26 ∺ 16	26 8 20	20 Ⅱ 23	1 I 17	209 0	2 Ω 46	26 Y 36	27≈35	14936	26 Ω 55	27 £ 31	0≈55	27 Y 41	S 31

Day	0	D	ğ	·	ď	4	ħ)Å(并	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
F 1 S 2	15n 7 15 25	13 s 4 0n3 9 50 0 s33				23n 2 0n22 23 1 0 22		9n12 0s33 9 14 0 33			11n33 11n4 11 33 11 4		10n13 0n11 10 14 0 11
S 3 M 4	15 42 16 0	6 7 1 3'		56 16 6 0 34 1 16 29 0 32				9 15 0 33 9 16 0 33			11 33 11 5 11 35 11 5		10 16 0 11 10 17 0 11
T 5 W 6	16 17 16 34	2n15 3 3 6 33 4 13	4 33 3		15 34 0 7 15 47 0 6	22 58 0 23 22 56 0 23	20 41 0 41 20 40 0 41	9 17 0 33 9 18 0 33	12 53 0 32 12 53 0 32	22 31 0 13 22 31 0 13	11 37 11 5 11 40 11 5	3 18 0 4 17 59	10 18 0 11 10 19 0 11
T 7 F 8 S 9	16 51 17 7 17 23	-	5 30 3		16 15 0 5	22 54 0 23	20 39 0 41 20 39 0 41 20 38 0 41	9 21 0 33	12 53 0 32	22 31 0 13	11 44 11 5 11 48 11 5 11 52 11 5	5 17 58	10 22 0 11
S 10 M11		18 47 4 33	6 16 3	12 18 39 0 18	16 41 0 4		20 37 0 41	9 23 0 33 9 24 0 33	12 52 0 32	22 31 0 12	11 55 11 5 11 58 11 5	8 17 57	10 24 0 11
T 12 W13	18 10 18 25	18 38 2 5	7 8 3		17 7 0 2	22 50 0 23 22 49 0 23	20 35 0 41	9 25 0 33	12 52 0 32		11 59 12	17 56 2 17 55	10 27 0 10
T 14 F 15	18 54	13 50 0 39 10 10 0n33	8 36 3		17 44 0 0		20 32 0 41	9 29 0 33	12 51 0 32	22 31 0 12 22 31 0 12	12 0 12	17 54	
S 16 S 17	19 8 19 21	1 34 2 50	9 41 2	55 20 49 0 1	18 8 0 1	22 43 0 23	20 31 0 41 20 30 0 41	9 31 0 33	12 51 0 32	22 31 0 12 22 31 0 12	12 1 12	5 17 53 5 17 53	10 33 0 10
M18 T 19 W20	19 35 19 48 20 0	7 7 4 2	3 10 49 2	44 21 20 0 3	18 32 0 2		20 28 0 41		12 51 0 32	22 30 0 12 22 30 0 12 22 30 0 12	12 6 12		10 34 0 10 10 35 0 10 10 36 0 10
T 21 F 22	20 13 20 25	14 14 5 0 16 47 4 50	12 0 2 5 12 37 2	32 21 50 0 8 25 22 4 0 11	18 54 0 4 19 5 0 4	22 38 0 23 22 37 0 23	20 26 0 41 20 25 0 41	9 35 0 33 9 37 0 33	12 51 0 32 12 51 0 32	22 30 0 12 22 30 0 12	12 14 12 19 12 19 12 1	17 50 1 17 50	10 37 0 10 10 39 0 10
S 23 S 24 M25	20 48	19 21 4	5 13 52 2	9 22 30 0 16	19 27 0 5	22 34 0 23	20 24 0 41 20 23 0 41 20 23 0 41	9 39 0 33	12 51 0 32	22 30 0 12	12 23 12 1: 12 27 12 1:	17 48	10 41 0 10
T 26	20 39 21 9 21 19	18 23 2 34	1 15 9 1	52 22 53 0 20	19 48 0 7	22 32 0 23 22 31 0 24 22 29 0 24	20 21 0 41	9 40 0 33 9 41 0 33 9 42 0 33	12 51 0 32	22 30 0 11	12 30 12 1 12 32 12 1 12 33 12 1	5 17 47	10 43 0 9
F 29	21 29 21 39 21 48	11 13 0s2d	5 17 5 1		20 18 0 9		20 17 0 41	9 44 0 33	12 51 0 32	22 30 0 11	12 33 12 1 12 33 12 1 12 33 12 2	17 45	10 46 0 9
	21 48 21n57						20 16 0 41 20n14 0n41						10 47 0 9 10n48 0n 9

 $\label{eq:Julian Day Number = 2335518.5, Delta T = 22.35 sec} \\ Ecliptic obliquity = 23°28'42, Nutation = -0°00'10, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°18'22, Lahiri = 19°25'22Greg. Calendar \\ \\$

JUNE 1682 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(朴	Р	ß	Ω	Ç	, k	Day
M 1	16 39 13	10 Ⅱ 40'34	8 Υ 55	28819	21 II 37	1耳59	209512	2 Ω 52	26 Y 39	27°R34	14937	26°R52	27 Ω 28	1≈ 2	27 Y 44	M 1
T 2	16 43 9	11°37'58	21°58	0П20	22°51	2°41	20°24	2°58	26°41	27≈34	14°39	26 Ω 47	27°24	1° 9	27°47	T 2
W 3	16 47 6	12°35'22	5 8 28	2°23	24° 4	3°23	20°36	3° 4	26°44	27°34	14°40	26°39	27°21	1°15	27°50	W 3
T 4	16 51 2	13°32'45	19°24	4°27	25°18	4° 5	20°47	3° 9	26°47	27°34	14°42	26°30	27°18	1°22	27°53	T 4
F 5	16 54 59	14°30'07	3 Ⅱ 45	6°34	26°31	4°47	20°59	3°15	26°49	27°34	14°43	26°19	27°15	1°29	27°56	F 5
S 6	16 58 55	15°27'29	18°24	8°41	27°45	5°29	21°11	3°21	26°52	27°34	14°44	26° 9	27°12	1°35	27°59	S 6
S 7	17 2 52	16°24'50	39514	10°51	28°59	6°11	21°23	3°27	26°54	27°34	14°46	26° 0	27° 9	1°42	28° 1	S 7
M 8	17 6 49	17°22'10	18° 6	13° 1	09512	6°53	21°35	3°33	26°57	27°33	14°47	25°53	27° 5	1°49	28° 4	M 8
T 9	17 10 45	18°19'30	2 Ω 53	15°12	1°26	7°35	21°47	3°40	26°59	27°33	14°49	25°49	27° 2	1°55	28° 7	T 9
W10	17 14 42	19°16'48	17°28	17°23	2°39	8°17	22° 0	3°46	27° 2	27°33	14°50	25°47	26°59	2° 2	28°10	W10
T 11	17 18 38	20°14'06	1 m 47	19°35	3°53	8°58	22°12	3°52	27° 4	27°32	14°51	25°D47	26°56	2° 9	28°12	T 11
F 12	17 22 35	21°11'22	15°48	21°47	5° 6	9°40	22°24	3°58	27° 6	27°32	14°53	25°R47	26°53	2°15	28°15	F 12
S 13	17 26 31	22° 8'38	29°32	23°59	6°20	10°22	22°36	4° 5	27° 9	27°31	14°54	25°47	26°50	2°22	28°18	S 13
S 14	17 30 28	23° 5'53	12 ≏ 58	26°10	7°33	11° 3	22°49	4°11	27°11	27°31	14°56	25°45	26°46	2°29	28°20	S 14
M15	17 34 25	24° 3'07	26°10	28°20	8°47	11°45	23° 1	4°18	27°13	27°31	14°57	25°41	26°43	2°35	28°23	M15
T 16	17 38 21	25° 0'21	9 ™ 7	09529	10° 0	12°26	23°14	4°24	27°15	27°30	14°59	25°35	26°40	2°42	28°25	T 16
W17	17 42 18	25°57'33	21°52	2°37	11°14	13° 8	23°26	4°31	27°17	27°29	15° 0	25°27	26°37	2°48	28°28	W17
T 18	17 46 14	26°54'46	4 ₹ 25	4°44	12°27	13°49	23°39	4°37	27°20	27°29	15° 2	25°17	26°34	2°55	28°30	T 18
F 19	17 50 11	27°51'58	16°48	6°49	13°40	14°30	23°51	4°44	27°22	27°28	15° 3	25° 6	26°30	3° 2	28°32	F 19
S 20	17 54 7	28°49'09	29° 0	8°52	14°54	15°12	24° 4	4°51	27°24	27°28	15° 5	24°56	26°27	3° 8	28°35	S 20
S 21	17 58 4	29°46'21	11중 3	10°54	16° 7	15°53	24°17	4°58	27°26	27°27	15° 6	24°48	26°24	3°15	28°37	S 21
M22	18 2 0	09543'32	22°59	12°54	17°21	16°34	24°29	5° 4	27°28	27°26	15° 8	24°41	26°21	3°22	28°39	M22
T 23	18 5 57	1°40'43	4≈49	14°52	18°34	17°15	24°42	5°11	27°30	27°26	15° 9	24°37	26°18	3°28	28°41	T 23
W24	18 9 54	2°37'54	16°36	16°47	19°47	17°56	24°55	5°18	27°31	27°25	15°11	24°35	26°15	3°35	28°43	W24
T 25	18 13 50	3°35'05	28°25	18°41	21° 1	18°37	25° 8	5°25	27°33	27°24	15°13	24°D34	26°11	3°42	28°45	T 25
F 26	18 17 47	4°32'16	10) 18	20°33	22°14	19°18	25°20	5°32	27°35	27°23	15°14	24°35	26° 8	3°48	28°47	F 26
S 27	18 21 43	5°29'27	22°20	22°23	23°27	19°59	25°33	5°39	27°37	27°22	15°16	24°36	26° 5	3°55	28°49	S 27
S 28	18 25 40	6°26'38	4 Υ38	24°10	24°41	20°40	25°46	5°46	27°39	27°22	15°17	24°R37	26° 2	4° 2	28°51	S 28
M29	18 29 36	7°23'49	17°14	25°56	25°54	21°21	25°59	5°53	27°40	27°21	15°19	24°37	25°59	4° 8	28°53	M29
T 30	18 33 33	8921'01	0 8 15	27939	2795 7	22 II 2	269512	6Ω 0	27 Y 42	27≈20	159520	24 Ω 35	25 Ω 56	4≈15	28 Y 55	T 30

Day	0	J)	ζ	5	ç		C	3'	2	4	ŧ	1);	ξ((Е	2	n	U	Ç	لح	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	22n 5	0n26		18n59		23n47		20n46		22n21	0n24		0n41	9n47		12 s 5 1		22n30			12n22			
T 2	22 13	4 43		19 35	0 41			20 55		22 19	0 24			9 48		12 51		22 29			12 24			
W 3	22 21	8 56		20 11	0 30		0 39			22 18	0 24		0 41	9 49				22 29			12 25			0 9
T 4	22 28	12 48		20 46	0 19		0 41			22 16	0 24		0 41	9 49		-		22 29			12 26			0 9
F 5	22 35	16 2 18 19		21 19 21 50	0 8	24 9 24 13		21 20 21 29		22 14 22 12	0 24 0 24		0 41 0 41	9 50 9 51		12 51 12 51		22 29 22 29			12 27 12 28			
S 7		19 25		22 20		24 16		21 37		22 10			0 41	9 52		12 51		22 29			12 29			
M 8				22 48		24 18		21 44			0 24		0 41	9 53		12 51		22 29			12 30			
T 9 W10		17 37		23 13		24 20		21 52			0 24	-		9 54		12 51		22 29			12 31			
T 11		14 55 11 21		23 36 23 57		24 21 24 21	0 54	21 59		22 5 22 3		-	0 42	9 55		12 52		22 29			12 32 12 33			
F 12	23 11	7 13		24 15		24 21		22 6 22 13			0 24	19 59 19 58	0 42 0 42			12 52 12 52		22 29 22 29			12 33			0 8
S 13	23 15			24 15		24 21		22 13		22 1 21 59		19 58	0 42			12 52		22 29			12 34			0 8
S 14	23 18	1 s41		24 43		24 17	1 2			21 57	0 25		0 42			12 52		22 28			12 37			0 8
M15	23 21	6 0		24 53	1 25		1 4			21 55	0 25		0 42			12 52		22 28			12 38			0 8
T 16	23 23	9 56	4 52		1 31			22 39		21 53	0 25			10 0		12 53		22 28	0 10		12 39		-	0 8
W17 T 18		-		25 4	1 37			22 45		21 51	0 25		0 42			12 53		22 28	0 10 0 10		12 40			0 8
	23 27 23 28		5 1 4 43	25 5 25 4	1 42 1 46			22 51 22 56		21 49 21 47		19 49 19 47	0 42 0 42			12 53 12 53		22 28 22 28			12 41 12 42			0 8
S 20	23 28		4 43	-		23 51	1 12			21 47		19 47	0 42			12 54		22 28			12 42			0 8
S 21		19 30		24 53		23 44	1 14			21 42		19 44		10 3		12 54		22 28			12 44			0 7
M22	23 29			24 44		23 36		23 11		21 40	0 25		0 42			12 54		22 27			12 45			0 7
T 23	-	17 24		24 33		23 28		23 16		21 38	0 25	-	0 42			12 54		22 27			12 46			
W24	23 27	-		24 20	1 55	1		23 20		21 36	0 25		0 42			12 55		22 27			12 47			0 7
T 25 F 26	23 26 23 24			24 5 23 47	1 55	23 9 22 59		23 25 23 29		21 33 21 31	0 25 0 25		0 42 0 42			12 55 12 55		22 27 22 27			12 48 12 50			0 7
S 27	23 24	-		23 47		22 48		23 29		21 31		19 36	0 42			12 55		22 27			12 50			0 7
S 28			3 19			22 36		23 36		21 27		19 33	0 42					22 27			12 52			
	23 19 23 16	1 13 2n59		23 8 22 46		22 23		23 36		21 27		19 33	0 42			12 56 12 56		22 27			12 52			
	23 10 23n13	2n39 7n10		22 46 22n22		22 23 22n10		23 39 23n42		21 24 21n22		19 31 19n29		10 8 10n 9		12 56 12 s 56		22 27 22n27			12 55 12n54			
1 50	231113	/1110	+542	221122	11144	221110	11120	231142	01128	211122	01120	171129	01142	1011 9	0834	12530	0833	22II2/	08 9	131121	121134	1/523	111113	OII /

Julian Day Number = 2335549.5, Delta T = 22.31 sec Ecliptic obliquity = 23°28'42, Nutation = -0°00'10, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^\circ18'26$, Lahiri = $19^\circ25'26$ Greg. Calendar

JULY 1682 GC 00:00 UT

UUL	IUUL	uc													00.0	0.
Day	Sid.t	0	D	ğ	φ	ď	4	ħ)Å(并	Р	v	v	Ç	Ŷ,	Day
W 1	18 37 29	99518'13	13843	299521	289521	22 II 42	26925	6 N 8	27 Υ 43	27°R19	159522	24°R31	25 Ω 52	4≈22	28 Y 57	W 1
T 2	18 41 26	10°15'26	27°40	1 0 0	29°34	23°23	26°38	6°15	27°45	27≈18	15°23	$24\Omega 25$	25°49	4°28	28°59	T 2
F 3	18 45 23	11°12'39	12 II 4	2°37	0 Ω 47	24° 4	26°51	6°22	27°46	27°17	15°25	24°19	25°46	4°35	29° 0	F 3
S 4	18 49 19	12° 9'52	26°50	4°12	2° 1	24°44	27° 4	6°29	27°48	27°16	15°27	24°12	25°43	4°42	29° 2	S 4
S 5	18 53 16	13° 7'05	11952	5°45	3°14	25°25	27°17	6°36	27°49	27°15	15°28	24° 7	25°40	4°48	29° 4	S 5
M 6	18 57 12	14° 4'19	27° 0	7°16	4°27	26° 6	27°30	6°44	27°51	27°14	15°30	24° 3	25°36	4°55	29° 5	M 6
T 7	19 1 9	15° 1'33	12Ω 5	8°45	5°40	26°46	27°43	6°51	27°52	27°13	15°31	24° 1	25°33	5° 2	29° 7	T 7
W 8	19 5 5	15°58'46	26°58	10°11	6°53	27°26	27°57	6°59	27°53	27°11	15°33	24°D 0	25°30	5° 8	29° 8	W 8
T 9	19 9 2	16°56'00	11 m y33	11°36	8° 7	28° 7	28°10	7° 6	27°55	27°10	15°34	24° 1	25°27	5°15	29°10	T 9
F 10	19 12 58	17°53'14	25°46	12°58	9°20	28°47	28°23	7°13	27°56	27° 9	15°36	24° 2	25°24	5°22	29°11	F 10
S 11	19 16 55	18°50'28	9 ₾ 35	14°18	10°33	29°27	28°36	7°21	27°57	27° 8	15°38	24° 4	25°21	5°28	29°12	S 11
S 12	19 20 52	19°47'42	23° 2	15°35	11°46	0න 8	28°49	7°28	27°58	27° 7	15°39	24°R 4	25°17	5°35	29°13	S 12
M13	19 24 48	20°44'56	6M 8	16°51	12°59	0°48	29° 3	7°36	27°59	27° 6	15°41	24° 3	25°14	5°42	29°15	M13
T 14	19 28 45	21°42'11	18°56	18° 4	14°12	1°28	29°16	7°43	28° 0	27° 4	15°42	24° 0	25°11	5°48	29°16	T 14
W15	19 32 41	22°39'25	1 ₹ 29	19°14	15°26	2° 8	29°29	7°51	28° 1	27° 3	15°44	23°56	25° 8	5°55	29°17	W15
T 16	19 36 38	23°36'40	13°49	20°22	16°39	2°48	29°42	7°58	28° 2	27° 2	15°45	23°52	25° 5	6° 1	29°18	T 16
F 17	19 40 34	24°33'56	25°58	21°27	17°52	3°28	29°56	8° 6	28° 3	27° 0	15°47	23°47	25° 2	6° 8	29°19	F 17
S 18	19 44 31	25°31'11	7 궁 59	22°29	19° 5	4° 8	0 Ω 9	8°14	28° 3	26°59	15°49	23°42	24°58	6°15	29°20	S 18
S 19	19 48 27	26°28'28	19°54	23°29	20°18	4°48	0°22	8°21	28° 4	26°58	15°50	23°38	24°55	6°21	29°20	S 19
M20	19 52 24	27°25'45	1≈44	24°25	21°31	5°28	0°35	8°29	28° 5	26°56	15°52	23°35	24°52	6°28	29°21	M20
T 21	19 56 21	28°23'02	13°32	25°19	22°44	6° 8	0°49	8°36	28° 6	26°55	15°53	23°33	24°49	6°35	29°22	T 21
W22	20 0 17	29°20'21	25°20	26° 9	23°57	6°47	1° 2	8°44	28° 6	26°54	15°55	23°D33	24°46	6°41	29°23	W22
T 23	20 4 14	0 Ω 17'40	7 ∺ 11	26°56	25°10	7°27	1°15	8°52	28° 7	26°52	15°56	23°34	24°42	6°48	29°23	T 23
F 24	20 8 10	1°15'00	19° 8	27°40	26°23	8° 7	1°29	8°59	28° 7	26°51	15°58	23°35	24°39	6°55	29°24	F 24
S 25	20 12 7	2°12'21	1 Υ 14	28°20	27°36	8°46	1°42	9° 7	28° 8	26°49	15°59	23°37	24°36	7° 1	29°24	S 25
S 26	20 16 3	3° 9'43	13°33	28°56	28°48	9°26	1°55	9°15	28° 8	26°48	16° 1	23°38	24°33	7° 8	29°25	S 26
M27	20 20 0	4° 7'06	26° 9	29°28	0 m y 1	10° 6	2° 8	9°22	28° 8	26°46	16° 2	23°39	24°30	7°15	29°25	M27
T 28	20 23 56	5° 4'31	9 8 7	29°56	1°14	10°45	2°22	9°30	28° 9	26°45	16° 4	23°R39	24°27	7°21	29°26	T 28
W29	20 27 53	6° 1'56	22°30	0 m 20	2°27	11°25	2°35	9°38	28° 9	26°43	16° 5	23°38	24°23	7°28	29°26	W29
T 30	20 31 50	6°59'23	6 I I19	0°39	3°40	12° 4	2°48	9°46	28° 9	26°42	16° 7	23°37	24°20	7°35	29°26	T 30
F 31	20 35 46	7 Ω 56'51	20 Ⅲ 35	0 m 53	4 m 53	125643	3 Ω 1	9 Ω 53	28 Ƴ 9	26≈40	1695 8	23Ω 35	24 Ω 17	7≈41	29 Υ 26	F 31

Day	0	D	3	<u></u>	Q		ď	7	2	+	ħ	<u> </u>)į	ξ(,		Р		n	U	Ç	لح	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
W 1	23n 9		4 21n57		21n57	-	23n45		21n19				10n10		12 s 5 7		22n26			12n55		-	
T 2 F 3	23 5 23 0		9 21 31 5 21 4		21 43 21 28	1 28	23 48		21 17 21 15	-	19 26 19 24		10 10 10 11		12 57 12 58		22 26 22 26		_	12 56 12 57			
S 4	22 55		1 20 37		21 12	-	23 53		21 13		19 24		10 11		12 58		22 26			12 58		-	
S 5	22 50	19 29 3 2	9 20 8	1 19	20 56	1 31	23 55	0 31	21 10	0 26	19 20	0 43	10 12	0 34	12 58	0 33	22 26			12 59	17 19	11 16	0 6
M 6			2 19 39			-	23 57	0 32			19 19		10 12		12 59		22 26		13 32			11 16	
T 7	22 38		4 19 9				23 59	0 32			19 17		10 12		12 59	0 34	- 1	-	13 32			11 16	
W 8	22 31		6 18 38			1 33					19 15		10 13		12 59	0 34	- 1		13 33		17 16		0 6
T 9	22 24	-	4 18 7		19 46	1 33			20 59	-	19 13		10 13		-	0 34	-		13 32		17 16	-	0 6
F 10	22 17		5 17 36			1 34			20 57		19 11		10 14			0 34	-		13 32		17 15		0 6
S 11	22 9	0s23 3 4	3 17 4	0 31	19 8	1 34	24 3	0 33	20 54	0 26	19 9	0 43	10 14	0 34	13 1	0 34	22 25	0 9	13 31	13 6	17 14	11 18	0 6
S 12	22 1	4 49 4 2	8 16 32	0 22	18 48	1 34	24 4	0 35	20 52	0 26	19 8	0 43	10 14	0 34	13 1	0 34	22 25	0 8	3 13 31	13 7	17 13	11 18	0 6
	21 52	8 54 4 5	8 16 1	0 12	18 27	1 35	24 4	0 36	20 49	0 27		0 43	10 15	0 34	13 2	0 34	22 25		3 13 32			11 19	0 6
	21 44	-				1 35			20 46	0 27	-		10 15	0 34	13 2	0 34	22 25		3 13 33			11 19	0 6
W15	21 34		0 14 57		17 45	1 35	-		20 44	0 27	-		10 15		-	0 34	-			13 10		-	0 6
	21 25					1 35			20 41	0 27			10 16	0 34	-	0 34	-			13 11			0 6
F 17	21 15					1 35			20 38	0 27			10 16		-	0 34				13 12		11 20	0 6
S 18	21 4	19 30 3 4	5 13 24	0 41	16 38	1 35	24 3	0 39	20 35	0 27	18 56	0 43	10 16	0 34	13 4	0 34	22 24	0 8	3 13 39	13 13	17 8	11 20	0 5
S 19	20 54	19 7 2 5	5 12 53	0 53	16 14	1 34	24 3	0 39	20 33	0 27	18 54	0 44	10 17	0 34	13 4	0 34	22 24	0 8	3 13 40	13 14	17 7	11 21	0 5
M20	20 43	17 54 1 5	7 12 23	1 4	15 51	1 34	24 2	0 40	20 30	0 27	18 52	0 44	10 17	0 34	13 5	0 34	22 24	0 8	3 13 41	13 15	17 7	11 21	0 5
T 21	20 31		5 11 54				24 1	0 40	20 27	0 27	18 51	0 44	10 17	0 34	13 5	0 34	22 24			13 16		11 21	0 5
W22	20 19		0 11 26		15 2				20 24	0 27			10 17			0 34	22 24			13 17		11 21	0 5
T 23	20 7		5 10 58				23 58		20 21		18 47		10 17			0 34				13 18		11 21	0 5
F 24	19 55		7 10 32				23 56		20 19		18 45		10 18			0 34				13 20		11 21	0 5
S 25	19 42	2 28 3 1	3 10 6	2 6	13 46	1 32	23 54	0 43	20 16	0 27	18 43	0 44	10 18	0 34	13 7	0 34	22 24	0 8	3 13 40	13 21	17 2	11 21	0 5
S 26	19 29		9 42	2 19	13 20		23 52		20 13	0 28		0 44	10 18			0 34	22 23	0 8	3 13 40	13 22	17 2	11 22	0 5
M27	19 16	5 45 4 4		_			23 49		20 10	0 28			10 18			0 34	-			13 23		11 22	0 5
T 28	19 2		6 8 57	2 44			23 47	0 44		0 28			10 18				22 23			13 24		11 22	0 5
W29	18 48						23 44	0 45		0 28			10 18		13 10		22 23			13 25			0 5
T 30			9 8 19		-	1 28	-	0 45		0 28			10 18		13 10		22 23	0		13 26			0 5
F 31	18n19	18n27 4s4	2 8n 3	3 s20	11n 5	1n26	23n38	0n46	19n58	0n28	18n31	0n44	10n18	0s34	13 s11	0 s34	22n23	0s 7	7 13n41	13n27	16s57	11n22	0n 4

Julian Day Number = 2335579.5, Delta T = 22.26 sec Ecliptic obliquity = $23^{\circ}28'42$, Nutation = - $0^{\circ}00'10$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}18'30$, Lahiri = $19^{\circ}25'30$ Greg. Calendar

AUGUST 1682 GC 00:00 UT

Audi	JJ: 100	L uc													00.0	0 0.
Day	Sid.t	0)	ğ	φ	ð	4	ħ)∤(并	В	S.	Ω	Ç	ķ	Day
S 1	20 39 43	8 Ω 54'21	59915	1 Mp 2	6MD 6	13923	3 Ω 15	10 N 1	28 Y 10	26°R39	16910	23°R33	24Ω14	7≈48	29 Y 27	S 1
S 2	20 43 39	9°51'52	20°13	1°R 7	7°18	14° 2	3°28	10° 9	28°10	26≈37	16°11	23 1 32	24°11	7°55	29°27	S 2
M 3	20 47 36	10°49'23	5 Ω 23	1° 6	8°31	14°41	3°41	10°16	28°R10	26°36	16°13	23°31	24° 8	8° 1	29°R27	M 3
T 4	20 51 32	11°46'56	20°34	1° 0	9°44	15°20	3°54	10°24	28°10	26°34	16°14	23°D30	24° 4	8° 8	29°27	T 4
W 5	20 55 29	12°44'30	5 m /38	0°48	10°56	16° 0	4° 8	10°32	28°10	26°33	16°16	23°30	24° 1	8°15	29°26	W 5
T 6	20 59 25	13°42'05	20°25	0°31	12° 9	16°39	4°21	10°40	28° 9	26°31	16°17	23°31	23°58	8°21	29°26	T 6
F 7	21 3 22	14°39'41	4 Ω 51	0° 9	13°22	17°18	4°34	10°47	28° 9	26°29	16°19	23°32	23°55	8°28	29°26	F 7
S 8	21 7 19	15°37'18	18°51	29 Ω 41	14°34	17°57	4°47	10°55	28° 9	26°28	16°20	23°32	23°52	8°34	29°26	S 8
S 9	21 11 15	16°34'55	2 M 25	29° 8	15°47	18°36	5° 0	11° 3	28° 9	26°26	16°21	23°33	23°48	8°41	29°25	S 9
M10	21 15 12	17°32'34	15°33	28°31	17° 0	19°15	5°13	11°10	28° 8	26°25	16°23	23°R33	23°45	8°48	29°25	M10
T 11	21 19 8	18°30'14	28°20	27°49	18°12	19°54	5°27	11°18	28° 8	26°23	16°24	23°33	23°42	8°54	29°25	T 11
W12	21 23 5	19°27'55	10 ∡ 748	27° 4	19°25	20°33	5°40	11°26	28° 8	26°21	16°26	23°33	23°39	9° 1	29°24	W12
T 13	21 27 1	20°25'36	23° 0	26°15	20°37	21°11	5°53	11°33	28° 7	26°20	16°27	23°32	23°36	9° 8	29°24	T 13
F 14	21 30 58	21°23'20	5 る 2	25°24	21°50	21°50	6° 6	11°41	28° 7	26°18	16°28	23°32	23°33	9°14	29°23	F 14
S 15	21 34 54	22°21'04	16°56	24°32	23° 2	22°29	6°19	11°49	28° 6	26°16	16°30	23°32	23°29	9°21	29°22	S 15
S 16	21 38 51	23°18'49	28°45	23°40	24°14	23° 7	6°32	11°56	28° 5	26°15	16°31	23°D32	23°26	9°28	29°22	S 16
M17	21 42 48	24°16'36	10≈33	22°48	25°27	23°46	6°45	12° 4	28° 5	26°13	16°32	23°32	23°23	9°34	29°21	M17
T 18	21 46 44	25°14'24	22°22	21°58	26°39	24°25	6°58	12°11	28° 4	26°12	16°33	23°R32	23°20	9°41	29°20	T 18
W19	21 50 41	26°12'14	4) 15	21°11	27°51	25° 3	7°10	12°19	28° 3	26°10	16°35	23°32	23°17	9°48	29°19	W19
T 20	21 54 37	27°10'05	16°13	20°28	29° 4	25°42	7°23	12°27	28° 2	26° 8	16°36	23°32	23°14	9°54	29°18	T 20
F 21	21 58 34	28° 7'57	28°18	19°49	0 ჲ 16	26°20	7°36	12°34	28° 2	26° 7	16°37	23°31	23°10	10° 1	29°17	F 21
S 22	22 2 30	29° 5'51	10 Y 33	19°16	1°28	26°59	7°49	12°42	28° 1	26° 5	16°39	23°31	23° 7	10° 8	29°16	S 22
S 23	22 6 27	0Mp 3'47	23° 1	18°50	2°40	27°37	8° 2	12°49	28° 0	26° 3	16°40	23°30	23° 4	10°14	29°15	S 23
M24	22 10 23	1° 1'45	5 8 43	18°31	3°52	28°15	8°14	12°57	27°59	26° 2	16°41	23°29	23° 1	10°21	29°14	M24
T 25	22 14 20	1°59'45	18°43	18°19	5° 5	28°54	8°27	13° 4	27°58	26° 0	16°42	23°28	22°58	10°27	29°13	T 25
W26	22 18 16	2°57'47	2 II 2	18°D15	6°17	29°32	8°40	13°12	27°57	25°58	16°43	23°D28	22°54	10°34	29°11	W26
T 27	22 22 13	3°55'50	15°43	18°20	7°29	0Ω10	8°52	13°19	27°56	25°57	16°44	23°28	22°51	10°41	29°10	T 27
F 28	22 26 10	4°53'56	29°46	18°33	8°41	0°48	9° 5	13°26	27°54	25°55	16°46	23°29	22°48	10°47	29° 9	F 28
S 29	22 30 6	5°52'04	149511	18°55	9°53	1°26	9°18	13°34	27°53	25°54	16°47	23°30	22°45	10°54	29° 7	S 29
S 30	22 34 3	6°50'13	28°53	19°25	11° 5	2° 4	9°30	13°41	27°52	25°52	16°48	23°31	22°42	11° 1	29° 6	S 30
M31	22 37 59	7 M 48'25	13 Ω 50	20 N 3	12 ≙ 17	2 Ω 43	9 Ω 42	13 Ω 48	27 Y 51	25≈50	169649	23 N 32	22 N 39	11≈ 7	29 Υ 4	M31

Day	0	D)	ğ	5	Q		ď	4	2	ŀ	ħ	l);	ξ(4	7	Р		ß	S	Ç	Ą	5
	decl	decl l	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18n 4	19n26	3 s57	7n49	$3\mathrm{s}32$	10n37	1n25	23n35	0n47	19n55	0n28	18n29	0n45	10n18	0s34	13 s11	0 s34	22n23	0 s 7	13n41	13n28	16 s 5 6	11n22	0n 4
S 2	17 48	19 5	2 54	7 37	3 43	10 9	1 24	23 31	0 47	19 52	0 28	18 27	0 45	10 18	0 34	13 12	0 34	22 23	0 7	13 42	13 29	16 55	11 22	0 4
M 3	17 33	17 21	1 39	7 27	3 54	9 40	1 23	23 27	0 48	19 49	0 28	18 25	0 45	10 18	0 34	13 12	0 34	22 22	0 7	13 42	13 30	16 55	11 22	0 4
T 4		14 24	0 16	7 20	4 4	,		23 24		19 46		18 23		10 18		13 13		22 22		_	13 31			0 4
W 5		10 30	1n 7	7 15	4 13	-	-	23 19		19 43		18 21		10 18		13 13		22 22		_	13 32			0 4
T 6	16 44	6 0	2 24	7 13	4 22			23 15		19 40	0 29			10 18		13 14		22 22			13 33			0 4
F 7	16 28	1 17	3 30					23 11		19 37	0 29			10 18		13 14		22 22			13 34			0 4
S 8	16 11	3 s22	4 21	7 18	4 35	7 14	1 15	23 6	0 50	19 34	0 29	18 15	0 45	10 18	0 34	13 15	0 34	22 22	0 7	13 42	13 35	16 50	11 21	0 4
S 9	15 54	7 41	4 56	7 25	4 40	6 45	1 14	23 2	0 51	19 31	0 29	18 13	0 45	10 18	0 34	13 16	0 34	22 22	0 7	13 42	13 36	16 49	11 21	0 4
M10			5 15		4 44			22 57		19 28	0 29	-		10 18		13 16		22 22		_	13 37			0 4
T 11		-	5 17		4 46		-	22 52		19 25	0 29			10 17		13 17		22 22			13 39			
W12	15 0	., .	5 4	8 2	4 46		-	22 46		19 21	0 29			10 17		13 17		22 21			13 40			
T 13		-	4 37				-	22 41		19 18	0 29	-		10 17		13 18		22 21			13 41			0 3
F 14			3 58		4 40	-		22 35		19 15	0 29	-		10 17		13 18		22 21		_	13 42			
S 15	14 5	19 16	3 10	9 2	4 35	3 43	1 2	22 29	0 54	19 12	0 29	18 0	0 46	10 17	0 35	13 19	0 34	22 21	0 6	13 42	13 43	16 44	11 19	0 3
S 16	13 46		2 13			-		22 24		19 9		17 58		10 16		13 20		22 21		_	13 44			
M17	-		1 12		4 19			22 17	0 55			17 56		10 16		13 20		22 21		_	13 45	-		
T 18		13 59	-	10 18	4 8			22 11		19 3		17 54		10 16		13 21		22 21			13 46			0 3
W19				10 45				22 5		18 59		17 52		10 16		13 21		22 21			13 47			0 3
T 20	12 28	7 20	-	11 12		1 8		21 58		18 56		17 50		10 15		13 22		22 21			13 48			0 3
F 21 S 22	12 9	3 27	3 53	11 38 12 4	3 26			21 51		18 53		17 48		10 15		13 22	0 34				13 49			
	11 48	0n37	3 33	12 4				21 45		18 50	0 30	17 46	0 46	10 15	0 33	13 23	0 34	22 20			13 50			
S 23	11 28	-	-	12 29				21 38		18 47		17 44		10 14		13 24		22 20			13 51			
M24	11 8	8 42	-	12 52	2 34			21 30		18 44		17 42		10 14		13 24		-		-	13 52			
T 25			-	13 13	2 15			21 23		18 40	0 31			10 14		13 25	0 34	- 1			13 53			
W26		15 28	-	13 32	1 57			21 16		18 37	0 31	17 38		10 13		13 25	0 34	- 1			13 54			
T 27		-, -,	-	13 48	1 38		0 31	-		18 34	0 31			10 13		13 26		22 20			13 55			
F 28 S 29	-	19 13 19 23	-	14 2 14 12	1 20	_	0 28	21 0 20 52	1 1 1 1 2	18 31 18 27	0 31	17 34 17 32		10 12 10 12		13 26 13 27		22 20 22 20			13 56 13 57		-	
	9 22	19 23	-		1 2	3 32												-						
S 30		10 10		14 20	0 44	-	-	20 44		18 24		17 30		10 11		13 27		22 20		_	13 58			
M31	8n39	15n51	0s54	14n24	0 s27	4s34	0n19	20n36	1n 3	18n21	0n31	17n28	0n47	10n11	0s35	13 s28	0 s34	22n20	0s 5	13n42	13n59	16 s28	11n12	0n 2

 $\label{eq:Julian Day Number = 2335610.5, Delta\ T = 22.21\ sec} \\ Ecliptic\ obliquity = 23°28'42, Nutation = -0°00'09, out-of-bounds\ declination\ in\ red \\$

SEPTEMBER 1682 GC 00:00 UT

Day	Sid.t	0	D	Ϋ́	φ	ð	4	ħ)∤(朴	Р	ß	Ω	Ç	ę,	Day
T 1	22 41 56	8 Mp 46'38	28€52	20Ω50	13 ≏ 28	3 Ω 21	9 Ω 55	13 Ω 56	27°R49	25°R49	16950	23°R32	22 Ω 35	11≈14	29°R 3	T 1
W 2	22 45 52	9°44'53	13 m 52	21°44	14°40	3°58	10° 7	14° 3	27 Y 48	25≈47	16°51	23€31	22°32	11°21	29 Υ 1	W 2
T 3	22 49 49	10°43'10	28°41	22°45	15°52	4°36	10°20	14°10	27°47	25°46	16°52	23°29	22°29	11°27	28°59	T 3
F 4	22 53 45	11°41'29	13 ≏ 12	23°54	17° 4	5°14	10°32	14°17	27°45	25°44	16°53	23°27	22°26	11°34	28°58	F 4
S 5	22 57 42	12°39'49	27°20	25° 9	18°16	5°52	10°44	14°24	27°44	25°42	16°54	23°25	22°23	11°41	28°56	S 5
S 6	23 1 39	13°38'11	11 M 1	26°29	19°27	6°30	10°56	14°31	27°42	25°41	16°55	23°22	22°19	11°47	28°54	S 6
M 7	23 5 35	14°36'34	24°15	27°55	20°39	7° 8	11°8	14°39	27°41	25°39	16°56	23°20	22°16	11°54	28°52	M 7
T 8	23 9 32	15°34'59	7 √ 5	29°26	21°51	7°45	11°20	14°46	27°39	25°38	16°57	23°19	22°13	12° 1	28°50	T 8
W 9	23 13 28	16°33'26	19°33	1 Mp 0	23° 2	8°23	11°32	14°53	27°37	25°36	16°58	23°D19	22°10	12° 7	28°48	W 9
T 10	23 17 25	17°31'54	1 石 44	2°39	24°14	9° 0	11°44	14°59	27°36	25°35	16°59	23°19	22° 7	12°14	28°46	T 10
F 11	23 21 21	18°30'24	13°43	4°20	25°25	9°38	11°56	15° 6	27°34	25°33	17° 0	23°21	22° 4	12°20	28°44	F 11
S 12	23 25 18	19°28'55	25°34	6° 4	26°36	10°15	12° 8	15°13	27°32	25°32	17° 0	23°23	22° 0	12°27	28°42	S 12
S 13	23 29 14	20°27'29	7≈22	7°50	27°48	10°53	12°19	15°20	27°30	25°30	17° 1	23°24	21°57	12°34	28°40	S 13
M14	23 33 11	21°26'04	19°10	9°38	28°59	11°30	12°31	15°27	27°28	25°29	17° 2	23°R25	21°54	12°40	28°38	M14
T 15	23 37 8	22°24'41	1) 3	11°27	0 M _10	12° 8	12°43	15°33	27°27	25°28	17° 3	23°25	21°51	12°47	28°36	T 15
W16	23 41 4	23°23'19	13° 2	13°17	1°22	12°45	12°54	15°40	27°25	25°26	17° 4	23°23	21°48	12°54	28°34	W16
T 17	23 45 1	24°22'00	25°11	15° 7	2°33	13°22	13° 6	15°47	27°23	25°25	17° 4	23°20	21°45	13° 0	28°31	T 17
F 18	23 48 57	25°20'42	7 Υ 31	16°58	3°44	14° 0	13°17	15°53	27°21	25°23	17° 5	23°16	21°41	13° 7	28°29	F 18
S 19	23 52 54	26°19'27	20° 2	18°49	4°55	14°37	13°28	16° 0	27°19	25°22	17° 6	23°10	21°38	13°14	28°27	S 19
S 20	23 56 50	27°18'13	2 8 46	20°40	6° 6	15°14	13°40	16° 6	27°17	25°21	17° 6	23° 5	21°35	13°20	28°24	S 20
M21	0 0 47	28°17'02	15°43	22°30	7°17	15°51	13°51	16°13	27°15	25°19	17° 7	22°59	21°32	13°27	28°22	M21
T 22	0 4 43	29°15'53	28°53	24°21	8°28	16°28	14° 2	16°19	27°13	25°18	17° 8	22°54	21°29	13°34	28°19	T 22
W23	0 8 40	0 ჲ 14'47	12 I I7	26°10	9°39	17° 5	14°13	16°25	27°11	25°17	17° 8	22°51	21°25	13°40	28°17	W23
T 24	0 12 37	1°13'42	25°57	27°59	10°49	17°42	14°24	16°32	27° 9	25°15	17° 9	22°D50	21°22	13°47	28°14	T 24
F 25	0 16 33	2°12'41	9951	29°48	12° 0	18°19	14°35	16°38	27° 6	25°14	17°10	22°50	21°19	13°54	28°12	F 25
S 26	0 20 30	3°11'41	23°59	1 ≏ 35	13°11	18°56	14°45	16°44	27° 4	25°13	17°10	22°51	21°16	14° 0	28° 9	S 26
S 27	0 24 26	4°10'44	8 Ω 22	3°22	14°22	19°33	14°56	16°50	27° 2	25°12	17°11	22°52	21°13	14° 7	28° 7	S 27
M28	0 28 23	5° 9'49	22°56	5° 8	15°32	20° 9	15° 7	16°56	27° 0	25°11	17°11	22°R53	21°10	14°13	28° 4	M28
T 29	0 32 19	6° 8'56	7 m /36	6°54	16°43	20°46	15°17	17° 2	26°58	25°10	17°12	22°52	21° 6	14°20	28° 1	T 29
W30	0 36 16	7 요 8'06	22 Mp 18	8 亞 38	17 M 53	$21\Omega 23$	15 Ω 28	17 0 8	26 Y 55	25≈ 8	179512	22 N 49	21 0 3	14≈27	27 ⋎ 59	W30

Day	0	D		ğ	φ		d	7	2	+	ħ	1);	j((В		n	v	Ç	لح	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	8n18	12n21 0n3	30 14n24	0s11	5s 4	0n16	20n28	1n 3	18n18	0n31	17n26	0n48	10n10	0 s35	13 s29	0 s34	22n20	0s 5	13n42	14n 0	16 s27	11n11	0n 2
W 2	7 56	8 3 1 3	50 14 21	0n 5	5 35	0 13	20 19	1 4	18 15	0 32	17 24	0 48	10 10	0 35	13 29	0 34	22 20	0 5	13 42	14 1	16 26	11 10	0 2
T 3	7 34	3 19 3	3 14 15	0 19	6 6	0 10	20 11	1 4	18 11	0 32	17 22	0 48	10 9	0 35	13 30	0 34	22 19	0 5	13 43	14 2	16 25	11 10	0 2
F 4	7 11	1 s 3 1 4	1 14 5	0 32	6 36	0 7	20 2	1 5	18 8	0 32	17 20	0 48	10 9	0 35	13 30	0 34	22 19	0 5	13 43	14 4	16 24	11 9	0 2
S 5	6 49	6 7 4 4	14 13 52	0 45	7 7	0 4	19 53	1 5	18 5	0 32	17 18	0 48	10 8	0 35	13 31	0 34	22 19	0 5	13 44	14 5	16 23	11 8	0 2
S 6	6 27	10 16 5	8 13 35	0 56	7 37	0 0	19 44	1 6	18 2	0 32	17 16	0 48	10 8	0 35	13 31	0 34	22 19	0 5	13 45	14 6	16 22	11 7	0 1
M 7	6 4	13 46 5	6 13 15	1 6	8 7	0s 3	19 35	1 6	17 59	0 32	17 14	0 48	10 7	0 35	13 32	0 34	22 19	0 5	13 46	14 7	16 21	11 7	0 1
T 8	5 42	16 29 5	7 12 52	1 15	8 37	0 6	19 26	1 7	17 55	0 32	17 12	0 48	10 7	0 35	13 32	0 34	22 19	0 5	13 46	14 8	16 20	11 6	0 1
W 9	5 19	18 22 4 4	13 12 26	1 23	9 7	0 10	19 17	1 7	17 52	0 32	17 10	0 48	10 6	0 35	13 33	0 34	22 19	0 5	13 46	14 9	16 19	11 5	0 1
T 10	4 56	19 20 4	8 11 57	1 30	9 37	0 13	19 7	1 8	17 49	0 33	17 8	0 49	10 5	0 35	13 33	0 34	22 19	0 5	13 46	14 10	16 18	11 4	0 1
F 11	4 33	19 26 3 2	22 11 25	1 36	10 6	0 17	18 58	1 8	17 46	0 33	17 6	0 49	10 5	0 35	13 34	0 34	22 19	0 5	13 46	14 11	16 17	11 4	0 1
S 12	4 10	18 39 2 2	27 10 51	1 41	10 35	0 20	18 48	1 9	17 43	0 33	17 5	0 49	10 4	0 35	13 34	0 34	22 19	0 5	13 45	14 12	16 16	11 3	0 1
S 13	3 47	17 3 1 2	27 10 15	1 44	11 4	0 23	18 38	1 9	17 40	0 33	17 3	0 49	10 3	0 35	13 35	0 34	22 19	0 5	13 44	14 13	16 15	11 2	0 1
M14	3 24	14 44 0 2	23 9 37	1 47	11 33	0 27	18 29	1 10	17 36	0 33	17 1	0 49	10 3	0 35	13 35	0 34	22 19	0 5	13 44	14 14	16 14	11 1	0 1
T 15	3 1	11 46 0s4	8 58	1 49	12 2	0 31	18 19	1 10	17 33	0 33	16 59	0 49	10 2	0 35	13 36	0 34	22 19	0 5	13 44	14 15	16 13	11 0	0 1
W16	2 38	8 18 1 4	16 8 17	1 50	12 30	0 34	18 9	1 11	17 30	0 33	16 57	0 49	10 1	0 35	13 36	0 34	22 19	0 5	13 45	14 16	16 12	10 59	0 1
T 17	2 14	4 27 2 4	15 7 34	1 51	12 58	0 38	17 58	1 11	17 27	0 34	16 55	0 50	10 1	0 35	13 37	0 34	22 19	0 4	13 46	14 17	16 11	10 58	0 1
F 18	1 51	0 21 3 3	88 6 51	1 50	13 26	0 41	17 48	1 12	17 24	0 34	16 53	0 50	10 0	0 35	13 37	0 34	22 19	0 4	13 47	14 18	16 10	10 58	0 0
S 19	1 28	3n49 4 2	21 6 6	1 49	13 53	0 45	17 38	1 12	17 21	0 34	16 52	0 50	9 59	0 35	13 38	0 34	22 19	0 4	13 49	14 19	16 9	10 57	0 0
S 20	1 4	7 52 4 5	52 5 21	1 47	14 20	0 48	17 27	1 13	17 18	0 34	16 50	0 50	9 59	0 35	13 38	0 34	22 19	0 4	13 51	14 20	16 8	10 56	0 0
M21	0 41	11 38 5	9 4 35	1 45	14 47	0 52	17 17	1 13	17 15	0 34	16 48	0 50	9 58	0 35	13 39	0 34	22 19	0 4	13 53	14 21	16 7	10 55	0 0
T 22	0 18	14 54 5	0 3 49	1 42	15 13	0 56	17 6	1 14	17 12	0 34	16 46	0 50	9 57	0 35	13 39	0 34	22 19	0 4	13 54	14 22	16 6	10 54	0 0
W23	0s 6	17 27 4 3	54 3 2	1 39	15 40	0 59	16 55	1 14	17 8	0 34	16 44	0 50	9 56	0 35	13 39	0 34	22 19	0 4	13 55	14 23	16 5	10 53	0 s 0
T 24	0 29	19 4 4 2	21 2 16	1 35	16 5	1 3	16 44	1 15	17 5	0 35	16 43	0 50	9 56	0 35	13 40	0 34	22 19	0 4	13 56	14 24	16 4	10 52	0 0
F 25	0 53	19 35 3 3	3 1 29	1 31	16 31	1 6	16 34	1 15	17 2	0 35	16 41	0 51	9 55	0 35	13 40	0 34	22 19	0 4	13 56	14 25	16 3	10 51	0 0
S 26	1 16	18 52 2 3	0 42	1 27	16 56	1 10	16 23	1 16	16 59	0 35	16 39	0 51	9 54	0 35	13 41	0 34	22 19	0 4	13 55	14 26	16 2	10 50	0 0
S 27	1 40	16 57 1	8 0s 5	1 22	17 21	1 14	16 11	1 16	16 56	0 35	16 38	0 51	9 53	0 35	13 41	0 34	22 19	0 4	13 55	14 27	16 1	10 49	0 0
M28	2 3	13 54 0n	0 0 52	1 17	17 45	1 17	16 0	1 17	16 53	0 35	16 36	0 51	9 52	0 35	13 41	0 34	22 19	0 4	13 55	14 28	16 0	10 48	0 0
T 29	2 27	9 57 1	9 1 39	1 11	18 9	1 21	15 49	1 17	16 51	0 35	16 34	0 51	9 52	0 35	13 42	0 34	22 19	0 4	13 55	14 29	15 58	10 47	0 1
W30	2 s50	5n24 2n3	33 2 s 2 s	1n 6	18 s32	1 s24	15n38	1n18	16n48	0n36	16n33	0n51	9n51	0 s 3 5	13 s42	0 s34	22n19	0s 4	13n56	14n30	15 s57	10n46	0 s 1

Julian Day Number = 2335641.5, Delta T = 22.17 sec Ecliptic obliquity = 23°28'43, Nutation = -0°00'10, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^\circ18'39$, Lahiri = $19^\circ25'39$ Greg. Calendar

OCTOBER 1682 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	ð)ı	Ł	W),(В	R	Ω	(ķ	Day
-							4	ħ	Ж	并				Ç	_	
T 1	0 40 12	8 ♀ 7'17	6 ₽ 55	10 <u>₽</u> 22	19 M 3	21 Ω 59	15 Ω 38	17 Ω 14	26°R53	25°R 7	179512	22°R44	210 0	14≈33	27°R56	T 1
F 2	0 44 9	9° 6'31	21°18	12° 5	20°14	22°36	15°48	17°20	26 ℃ 51	25≈ 6	17°13	22 \O 38	20°57	14°40	27 Y 53	F 2
S 3	0 48 5	10° 5'46	5 M 23	13°47	21°24	23°12	15°58	17°25	26°48	25° 5	17°13	22°30	20°54	14°47	27°51	S 3
S 4	0 52 2	11° 5'04	19° 5	15°29	22°34	23°49	16° 8	17°31	26°46	25° 4	17°14	22°22	20°50	14°53	27°48	S 4
M 5	0 55 59	12° 4'24	2 √ 22	17° 9	23°44	24°25	16°18	17°36	26°44	25° 3	17°14	22°15	20°47	15° 0	27°45	M 5
T 6	0 59 55	13° 3'45	15°14	18°49	24°54	25° 2	16°28	17°42	26°41	25° 2	17°14	22° 9	20°44	15° 7	27°42	T 6
W 7	1 3 52	14° 3'08	27°45	20°28	26° 4	25°38	16°38	17°47	26°39	25° 1	17°14	22° 5	20°41	15°13	27°39	W 7
T 8	1 7 48	15° 2'33	9 궁 57	22° 7	27°14	26°14	16°48	17°53	26°37	25° 0	17°15	22°D 4	20°38	15°20	27°37	T 8
F 9	1 11 45	16° 2'00	21°55	23°44	28°24	26°50	16°57	17°58	26°34	24°59	17°15	22° 4	20°35	15°27	27°34	F 9
S 10	1 15 41	17° 1'28	3≈46	25°21	29°34	27°26	17° 7	18° 3	26°32	24°59	17°15	22° 5	20°31	15°33	27°31	S 10
S 11	1 19 38	18° 0'59	15°33	26°58	0 ∡ 743	28° 2	17°16	18° 8	26°29	24°58	17°15	22° 6	20°28	15°40	27°28	S 11
M12	1 23 34	19° 0'31	27°23	28°33	1°53	28°39	17°25	18°13	26°27	24°57	17°15	22°R 6	20°25	15°46	27°25	M12
T 13	1 27 31	20° 0'05	9) (20	om. 8	3° 2	29°14	17°34	18°18	26°25	24°56	17°16	22° 4	20°22	15°53	27°22	T 13
W14	1 31 28	20°59'40	21°27	1°43	4°12	29°50	17°43	18°23	26°22	24°55	17°16	22° 0	20°19	16° 0	27°19	W14
T 15	1 35 24	21°59'18	3 Υ48	3°16	5°21	0 m 26	17°52	18°28	26°20	24°55	17°16	21°53	20°16	16° 6	27°16	T 15
F 16	1 39 21	22°58'57	16°24	4°49	6°30	1° 2	18° 1	18°33	26°17	24°54	17°16	21°45	20°12	16°13	27°13	F 16
S 17	1 43 17	23°58'39	29°15	6°22	7°39	1°38	18° 9	18°37	26°15	24°53	17°16	21°34	20° 9	16°20	27°10	S 17
S 18	1 47 14	24°58'22	12821	7°54	8°48	2°13	18°18	18°42	26°12	24°53	17°R16	21°23	20° 6	16°26	27° 7	S 18
M19	1 51 10	25°58'08	25°40	9°25	9°57	2°49	18°26	18°46	26°10	24°52	17°16	21°12	20° 3	16°33	27° 4	M19
T 20	1 55 7	26°57'56	9 Ⅱ 11	10°56	11° 5	3°25	18°34	18°51	26° 7	24°51	17°16	21° 2	20° 0	16°40	27° 2	T 20
W21	1 59 3	27°57'46	22°52	12°26	12°14	4° 0	18°43	18°55	26° 5	24°51	17°16	20°55	19°56	16°46	26°59	W21
T 22	2 3 0	28°57'38	69340	13°56	13°22	4°36	18°51	18°59	26° 2	24°50	17°16	20°51	19°53	16°53	26°56	T 22
F 23	2 6 57	29°57'33	20°36	15°25	14°31	5°11	18°58	19° 3	26° 0	24°50	17°16	20°49	19°50	17° 0	26°53	F 23
S 24	2 10 53	0 M 57'29	4⋒38	16°54	15°39	5°46	19° 6	19° 7	25°58	24°50	17°15	20°D49	19°47	17° 6	26°50	S 24
S 25	2 14 50	1°57'28	18°46	18°22	16°47	6°22	19°14	19°11	25°55	24°49	17°15	20°R49	19°44	17°13	26°47	S 25
M26	2 18 46	2°57'29	2 m 59	19°49	17°55	6°57	19°21	19°15	25°53	24°49	17°15	20°48	19°41	17°20	26°44	M26
T 27	2 22 43	3°57'32	17°14	21°16	19° 3	7°32	19°29	19°19	25°50	24°48	17°15	20°46	19°37	17°26	26°41	T 27
W28	2 26 39	4°57'38	1 ≏ 30	22°42	20°11	8° 7	19°36	19°23	25°48	24°48	17°15	20°41	19°34	17°33	26°38	W28
T 29	2 30 36	5°57'45	15°42	24° 8	21°18	8°42	19°43	19°26	25°45	24°48	17°14	20°33	19°31	17°39	26°35	T 29
F 30	2 34 32	6°57'54	29°45	25°33	22°26	9°17	19°50	19°30	25°43	24°48	17°14	20°22	19°28	17°46	26°32	F 30
S 31	2 38 29	7 M 58'06	13 M .34	26M57	23 × 33	9 ⋒ 52	19 N 56	19 Ω 33	25 Ƴ 41	24≈47	179514	20 Ω 10	19 Ω 25	17 ≈ 53	26 Y 29	S 31

Day	0	D		ğ	ç)	ď	4	2	ł	ħ	l);	ł(,		Е)	n	Ω	Ç	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
T 1	3 s14		n35 3 s l :				15n26	-	16n45	0n36		0n52	9n50				22n19			14n31		10n45	0 s 1
F 2	3 37	4s15 4	24 3 5			-	15 15		16 42	0 36		0 52	9 49	0 35			22 19			14 32		-	0 1
S 3	4 0	8 42 4	54 4 4	0 4	8 19 40	1 35	15 3	1 19	16 39	0 36	16 28	0 52	9 48	0 35	13 43	0 34	22 19	0 3	14 2	14 33	15 54	10 43	0 1
S 4	4 24	12 35 5	7 5 2	0 4	1 20 2	1 38	14 52	1 20	16 36		16 26	0 52	9 47	0 35	13 44	0 34	22 19	0 3	-	14 34		-	0 1
M 5	4 47	15 43 5	3 6 1	0 3	5 20 23	1 42	14 40	1 20	16 33	0 36	16 25	0 52	9 47	0 35	13 44	0 34	22 19	0 3	14 7	14 35	15 52	10 40	0 1
T 6	5 10	17 58 4	43 6 5				14 28	1 21	16 30	0 37		0 52	9 46	0 35	13 44	0 34	22 19	0 3			15 51		0 1
W 7		-	11 7 4				14 16	1 21	16 28	0 37	-	0 52	9 45		13 45	0 34	-			14 37			0 1
T 8			27 8 2		5 21 23	1 52	-	1 22			16 20	0 53	9 44		13 45	0 34	-			14 38	-		0 1
F 9		-	35 9		8 21 42		13 53		16 22		16 19	0 53	9 43			0 34	-			14 39			0 1
S 10	6 42	17 46 1	37 9 4	3 0	1 22 1	1 58	13 41	1 23	16 20	0 37	16 17	0 53	9 42	0 35	13 45	0 34	22 19	0 3	14 10	14 40	15 46	10 35	0 1
S 11	7 5	15 38 0	35 10 2	0 s	5 22 19	2 1	13 29	1 23	16 17	0 37	16 16	0 53	9 41	0 35	13 46	0 34	22 19	0 3	14 10	14 41	15 45	10 34	0 2
M12	7 27	12 51 0 5	s28 11 1	0 1	2 22 36	2 5	13 17	1 24	16 14	0 38	16 14	0 53	9 40	0 35	13 46	0 34	22 19	0 3	14 10	14 42	15 44	10 33	0 2
T 13	7 50	9 29 1	31 11 5	0 1	9 22 53	2 8	13 4	1 24	16 12	0 38	16 13	0 53	9 40	0 35	13 46	0 34	22 19	0 3	14 11	14 43	15 43	10 32	0 2
W14	8 12	5 42 2	31 12 3	0 2	6 23 10	2 11	12 52	1 25	16 9	0 38	16 12	0 54	9 39	0 35	13 47	0 34	22 19	0 3	14 12	14 44	15 42	10 30	0 2
T 15	8 35	1 36 3	24 13	0 3	3 23 25	2 14	12 40	1 25	16 7	0 38	16 10	0 54	9 38	0 35	13 47	0 34	22 19	0 3	14 14	14 45	15 41	10 29	0 2
F 16	8 57	2n38 4	8 13 4	0 4	0 23 41	2 17	12 28	1 26	16 4	0 38	16 9	0 54	9 37	0 35	13 47	0 34	22 19	0 3	14 17	14 46	15 40	10 28	0 2
S 17	9 19	6 51 4	41 14 2	0 4	6 23 55	2 20	12 15	1 26	16 2	0 39	16 8	0 54	9 36	0 35	13 47	0 34	22 19	0 3	14 20	14 47	15 38	10 27	0 2
S 18	9 41	10 49 5	0 15	0 5	3 24 9	2 23	12 3	1 27	15 59	0 39	16 6	0 54	9 35	0 35	13 47	0 34	22 19	0 3	14 24	14 48	15 37	10 26	0 2
M19	10 3	14 19 5	2 15 3	5 1	0 24 22	2 25	11 51	1 27	15 57	0 39	16 5	0 54	9 34	0 35	13 48	0 34	22 19	0 2	14 27	14 49	15 36	10 25	0 2
T 20	10 25	17 7 4	48 16 1	1	6 24 35	2 28	11 38	1 28	15 54	0 39	16 4	0 55	9 33	0 35	13 48	0 34	22 19	0 2	14 30	14 50	15 35	10 24	0 2
W21	10 46	19 0 4	18 16 4	1 1	3 24 47		11 26	1 28	15 52	0 39	16 3	0 55	9 33	0 35	13 48	0 34	22 19	0 2	14 33	14 51	15 34	10 22	0 2
T 22	11 7	19 47 3	32 17 1	3 1 1	9 24 59	2 33	11 13	1 29	15 50	0 40	16 2	0 55	9 32	0 35	13 48	0 34	22 19		_	14 52		-	0 3
F 23	11 29	19 22 2	33 17 5			2 36	11 1		15 47	0 40	-	0 55	9 31	0 35	13 48	0 34	22 20			14 53			0 3
S 24	11 50	17 46 1	25 18 2	1 3	1 25 19	2 38	10 48	1 30	15 45	0 40	15 59	0 55	9 30	0 35	13 48	0 34	22 20	0 2	14 35	14 54	15 30	10 19	0 3
S 25	12 10	15 3 0	11 18 5	1 3	7 25 29	2 40	10 36	1 30	15 43	0 40	15 58	0 56	9 29	0 35	13 49	0 34	22 20	0 2	14 35	14 55	15 29	10 18	0 3
M26	12 31	11 26 1r	1 4 19 2	1 4	3 25 38	2 43	10 23	1 31	15 41	0 40	15 57	0 56	9 28	0 35	13 49	0 34	22 20	0 2	14 35	14 56	15 28	10 17	0 3
T 27	12 52	7 8 2	15 19 5	1 4	9 25 46	2 45	10 10	1 31	15 39	0 41		0 56	9 27	0 35	13 49	0 34	22 20	0 2	14 36	14 57	15 27	10 16	0 3
W28	13 12	-	18 20 1	-		2 47	9 58		15 37	0 41	15 55	0 56	9 26	0 35	13 49		22 20	0 2		14 58			0 3
T 29	13 32	2 s22 4	8 20 4			2 49	9 45			0 41	15 54	0 56	9 25		13 49		22 20	0 2		14 59	-		0 3
F 30	13 52		42 21 1		4 26 6	2 51	9 32		15 33	0 41	15 53	0 56	9 25				-	0 2		-	15 23		0 3
S 31	14 s11	11 s11 4r	159 21 s3	2 s	9 26s12	2 s 5 3	9n20	1n33	15n31	0n41	15n53	0n57	9n24	0s35	13 s49	0 s34	22n20	0s 2	14n47	15n 1	15 s22	10n11	0 s 3

Julian Day Number = 2335671.5, Delta T = 22.12 sec Ecliptic obliquity = $23^{\circ}28'43$, Nutation = - $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}18'43$, Lahiri = $19^{\circ}25'43$ Greg. Calendar

NOVEMBER 1682 GC 00:00 UT

.,,,,,	HIDEN 1	LUUL UC													00.0	0.
Day	Sid.t	0	D	ğ	Ф	ð	4	ħ)મ(并	В	S.	v	Ç	Ŷ,	Day
S 1	2 42 26	8 M 58'19	27 M 6	28M20	24 х 40	10 m 27	20 N 3	19 N 36	25°R38	24°R47	17°R13	19°R57	19 Ω 22	17≈59	26°R26	S 1
M 2	2 46 22	9°58'34	10 ∡ 17	29°42	25°47	11° 1	20° 9	19°39	25 Y 36	24≈47	179513	19 Ω 45	19°18	18° 6	26 Y 24	M 2
T 3	2 50 19	10°58'50	23° 6	1 √ 4	26°54	11°36	20°16	19°42	25°33	24°47	17°13	19°35	19°15	18°13	26°21	T 3
W 4	2 54 15	11°59'08	5 云 36	2°24	28° 1	12°11	20°22	19°45	25°31	24°47	17°12	19°28	19°12	18°19	26°18	W 4
T 5	2 58 12	12°59'28	17°48	3°43	29° 7	12°45	20°28	19°48	25°29	24°47	17°12	19°23	19° 9	18°26	26°15	T 5
F 6	3 2 8	13°59'49	29°46	5° 1	0 궁 13	13°19	20°34	19°51	25°26	24°D47	17°11	19°21	19° 6	18°33	26°12	F 6
S 7	3 6 5	15° 0'11	11 ≈ 37	6°18	1°19	13°54	20°39	19°54	25°24	24°47	17°11	19°20	19° 2	18°39	26°10	S 7
S 8	3 10 1	16° 0'35	23°24	7°33	2°25	14°28	20°45	19°56	25°22	24°47	17°10	19°20	18°59	18°46	26° 7	S 8
M 9	3 13 58	17° 1'00	5) 15	8°46	3°31	15° 2	20°50	19°59	25°20	24°47	17°10	19°20	18°56	18°53	26° 4	M 9
T 10	3 17 55	18° 1'27	17°13	9°58	4°36	15°36	20°55	20° 1	25°17	24°47	17° 9	19°17	18°53	18°59	26° 1	T 10
W11	3 21 51	19° 1'54	29°25	11° 7	5°42	16°10	21° 1	20° 3	25°15	24°47	17° 9	19°13	18°50	19° 6	25°59	W11
T 12	3 25 48	20° 2'24	11 Y 53	12°13	6°47	16°44	21° 5	20° 6	25°13	24°47	17° 8	19° 5	18°47	19°12	25°56	T 12
F 13	3 29 44	21° 2'54	24°41	13°17	7°51	17°18	21°10	20° 8	25°11	24°48	17° 8	18°55	18°43	19°19	25°54	F 13
S 14	3 33 41	22° 3'26	7 8 50	14°17	8°56	17°52	21°15	20°10	25° 9	24°48	17° 7	18°43	18°40	19°26	25°51	S 14
S 15	3 37 37	23° 4'00	21°18	15°14	10° 0	18°26	21°19	20°11	25° 7	24°48	17° 6	18°30	18°37	19°32	25°48	S 15
M16	3 41 34	24° 4'35	5 Ⅱ 2	16° 7	11° 4	18°59	21°23	20°13	25° 5	24°49	17° 6	18°17	18°34	19°39	25°46	M16
T 17	3 45 30	25° 5'12	19° 0	16°55	12° 7	19°33	21°27	20°15	25° 3	24°49	17° 5	18° 6	18°31	19°46	25°43	T 17
W18	3 49 27	26° 5'50	395 7	17°37	13°11	20° 6	21°31	20°16	25° 1	24°49	17° 4	17°57	18°27	19°52	25°41	W18
T 19	3 53 24	27° 6'30	17°17	18°14	14°14	20°40	21°35	20°18	24°59	24°50	17° 3	17°51	18°24	19°59	25°39	T 19
F 20	3 57 20	28° 7'11	1 Ω 28	18°44	15°17	21°13	21°38	20°19	24°57	24°50	17° 3	17°49	18°21	20° 6	25°36	F 20
S 21	4 1 17	29° 7'55	15°37	19° 6	16°19	21°46	21°41	20°20	24°55	24°51	17° 2	17°D48	18°18	20°12	25°34	S 21
S 22	4 5 13	0 ∡ 8'39	29°43	19°21	17°21	22°19	21°45	20°21	24°53	24°51	17° 1	17°R48	18°15	20°19	25°31	S 22
M23	4 9 10	1° 9'25	13 m 45	19°R26	18°23	22°52	21°47	20°22	24°51	24°52	17° 0	17°48	18°12	20°26	25°29	M23
T 24	4 13 6	2°10'13	27°43	19°21	19°24	23°25	21°50	20°23	24°49	24°53	16°59	17°45	18° 8	20°32	25°27	T 24
W25	4 17 3	3°11'03	11 ≏ 35	19° 6	20°25	23°58	21°53	20°24	24°47	24°53	16°59	17°40	18° 5	20°39	25°25	W25
T 26	4 20 59	4°11'53	25°20	18°40	21°26	24°30	21°55	20°24	24°46	24°54	16°58	17°32	18° 2	20°45	25°23	T 26
F 27	4 24 56	5°12'45	8M56	18° 3	22°26	25° 3	21°57	20°25	24°44	24°55	16°57	17°22	17°59	20°52	25°21	F 27
S 28	4 28 53	6°13'39	22°21	17°15	23°26	25°35	21°59	20°25	24°42	24°55	16°56	17°10	17°56	20°59	25°18	S 28
S 29	4 32 49	7°14'34	5 ₹ 32	16°17	2 <u>4</u> °26	26° 8	22° 1	20°26	24°41	24°56	16°55	16°57	17°53	21° 5	25°16	S 29
M30	4 36 46	8 × 15'29	18 × 728	15 ₹ 10	25 る 25	26 Mp 40	22Ω 3	$20\Omega 26$	24 Υ 39	24≈57	169554	$16\Omega 45$	17 Ω 49	21≈12	25 Υ 14	M30

Day	0	D		ğ		Q		ď	7	2	+	ħ	ì.);	j(, ‡	(Е		n	U	ţ	Ł	
	decl	decl lat	: (decl	at	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	14 s31	14 s42 4	ln59 21	1 s59	2 s 1 3	26s16	2 s 5 4	9n 7	1n34	15n29	0n42	15n52	0n57	9n23	0 s35	13 s49	0 s34	22n20	0 s 2	14n51	15n 2	15 s21	10n10	0 s 3
M 2	14 50	17 22 4	42 22	2 22	2 18	26 20	2 56	8 54	1 34	15 27	0 42	15 51	0 57	9 22	0 35	13 49	0 34	22 20	0 2	14 55	15 3	15 20	10 9	0 4
T 3	15 9	19 7 4	12 22	2 43	2 21	26 24	2 57	8 41	1 35	15 25	0 42	15 50	0 57	9 21	0 35	13 49	0 34	22 21	0 2	14 58	15 4	15 18	10 8	0 4
W 4	15 27	19 52 3	30 23	3 3	2 25	26 26	2 59	8 29	1 36	15 23	0 42	15 49	0 57	9 20	0 35	13 49	0 34	22 21	0 1	15 (15 5	15 17	10 7	0 4
T 5	15 46	19 40 2	39 23	3 21	2 28	26 28	3 0	8 16	1 36	15 22	0 42	15 49	0 58	9 20	0 35	13 49	0 34	22 21	0 1	15 2	15 6	15 16	10 5	0 4
F 6	16 4	18 34 1	42 23	3 39	2 31	26 30	3 1	8 3	1 37	15 20	0 43	15 48	0 58	9 19	0 35	13 49	0 34	22 21	0 1	15 3	15 7	15 15	10 4	0 4
S 7	16 22	16 40 0	41 23	3 55	2 33	26 30	3 2	7 50	1 37	15 18	0 43	15 47	0 58	9 18	0 35	13 49	0 34	22 21	0 1	15 3	15 8	15 14	10 3	0 4
S 8	16 39	14 5 0	s22 24	4 10	2 35	26 30	3 3	7 37	1 38	15 17	0 43	15 47	0 58	9 17	0 35	13 49	0 34	22 21	0 1	15 3	15 9	15 12	10 2	0 4
M 9	16 57	10 54 1	23 24	4 23	2 37	26 30	3 4	7 25	1 38	15 15	0 43	15 46	0 58	9 16	0 35	13 49	0 34	22 21	0 1	15 3	15 10	15 11	10 1	0 4
T 10	17 14	7 14 2	22 24	4 35	2 38	26 28	3 4	7 12	1 39	15 14	0 44	15 45	0 59	9 16	0 35	13 49	0 34	22 21	0 1	15 4	15 11	15 10	10 0	0 4
W11	17 30	3 13 3	15 24	4 45	2 38	26 26	3 5	6 59	1 39	15 13	0 44	15 45	0 59	9 15	0 35	13 49	0 34	22 22	0 1	15 5	15 12	15 9	9 59	0 4
T 12	17 47	1n 1 4	0 24	4 54	2 38	26 23	3 5	6 46	1 40	15 11	0 44	15 44	0 59	9 14	0 35	13 49	0 34	22 22	0 1	15 7	15 13	15 7	9 58	0 4
F 13	18 3	5 19 4	34 25	5 1	2 37	26 20	3 6	6 34	1 40	15 10	0 44	15 44	0 59	9 13	0 35	13 49	0 34	22 22	0 1	15 11	15 14	15 6	9 57	0 4
S 14	18 19	9 29 4	55 25	5 7	2 35	26 16	3 6	6 21	1 41	15 9	0 44	15 44	0 59	9 12	0 35	13 49	0 34	22 22	0 1	15 14	15 15	15 5	9 56	0 5
S 15	18 34	13 17 5	0 25	5 11	2 33	26 11	3 6	6 8	1 41	15 7	0 45	15 43	1 0	9 12	0 35	13 49	0 34	22 22	0 1	15 19	15 16	15 4	9 55	0 5
M16	18 49	16 27 4	48 25	5 13	2 29	26 6	3 5	5 55	1 42	15 6	0 45	15 43	1 0	9 11	0 35	13 49	0 34	22 22	0 1	15 22	15 17	15 2	9 54	0 5
T 17	19 4	18 44 4	18 25	5 14	2 25	26 0	3 5	5 43	1 42	15 5	0 45	15 42	1 0	9 10	0 35	13 48	0 34	22 22	0 1	15 26	15 18	15 1	9 53	0 5
W18	19 19	19 54 3	33 25	5 13	2 19	25 53	3 5	5 30	1 43	15 4	0 45	15 42	1 0	9 10	0 35	13 48	0 34	22 23	0 1	15 29	15 19	15 0	9 52	0 5
T 19	19 33	19 49 2	2 34 25	5 10	2 13	25 46	3 4	5 17	1 43	15 3	0 46	15 42	1 0	9 9	0 35	13 48	0 34	22 23	0 1	15 30	15 20	14 59	9 51	0 5
F 20	19 46	18 29 1	25 25	5 5	2 5	25 38	3 3	5 5	1 44	15 2	0 46	15 42	1 1	9 8	0 35	13 48	0 34	22 23	0 0	15 31	15 21	14 57	9 50	0 5
S 21	20 0	16 0 0	12 24	4 57	1 56	25 30	3 2	4 52	1 44	15 2	0 46	15 41	1 1	9 7	0 35	13 48	0 34	22 23	0 0	15 31	15 22	14 56	9 49	0 5
S 22	20 13	12 34 1	n 3 24	4 48	1 46	25 21	3 1	4 39	1 45	15 1	0 46	15 41	1 1	9 7	0 35	13 48	0 34	22 23	0 0	15 31	15 23	14 55	9 48	0 5
M23	20 26	8 27 2	13 24	4 37	1 34	25 11	3 0	4 27	1 45	15 0	0 47	15 41	1 1	9 6	0 35	13 47	0 34	22 23	0 0	15 31	15 24	14 54	9 47	0 5
T 24	20 38	3 53 3	15 24	4 23	1 20	25 1	2 58	4 14	1 46	14 59	0 47	15 41	1 1	9 5	0 35	13 47	0 34	22 24	0 0	15 32	15 25	14 52	9 46	0 5
W25	20 50	0s50 4	5 24	4 7	1 6	24 50	2 57	4 2	1 46	14 59	0 47	15 41	1 2	9 5	0 35	13 47	0 34	22 24	0 0	15 34	15 26	14 51	9 46	0 5
T 26	21 1	5 28 4	40 23	3 49	0 49	24 39	2 55	3 49	1 47	14 58	0 47	15 41	1 2	9 4	0 35	13 47	0 34	22 24	0 0	15 36	15 27	14 50	9 45	0 6
F 27	21 12	9 47 4	59 23	3 28	0 32	24 27	2 53	3 37	1 47	14 58	0 48	15 41	1 2	9 4	0 34	13 46	0 34	22 24				14 49	9 44	0 6
S 28	21 23				0 13	24 15	2 51	3 24	1 48	14 57	0 48	15 41	1 2	9 3	0 34	13 46	0 34	22 24				14 47	9 43	0 6
S 29	21 33	16 34 4	46 22	2 40	0n 7	24 2	2 48	3 12	1 49	14 57	0 48	15 41	1 2	9 2	0 34	13 46	0 34	22 24	0 0	15 47	15 30	14 46	9 42	0 6
			ln18 22	-		23 s49	2 s46	3n 0		14n57		15n41	1n 3			13 s46		22n25				14 s45	-	0s 6

 $\label{eq:Julian Day Number = 2335702.5, Delta\ T = 22.08\ sec} \\ Ecliptic\ obliquity = 23°28'43, Nutation = -0°00'13, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 20°18'47, Lahiri = 19°25'47Greg.\ Calendar$

DECEMBER 1682 GC 00:00 UT

Day	Sid.t		7	×	0	ď	١.	+	₩),(D	0	ດ	•	K	Day
,		0	<u> </u>	ğ	<u>Q</u>	_	4	ħ)∤(并	В	u		Ç	Š	,
T 1	4 40 42	9 ∡ 16'26	1る 7	13°R55	26 궁 23	27 m 12	220 4	20°R26	24°R38	24≈58	16°R53	16°R35	17 Ω 46	21≈19	25°R13	T 1
W 2	4 44 39	10°17'24	13°30	12 ₹ 35	27°22	27°44	22° 5	$20\Omega 26$	24 Y 36	24°59	16952	16 Ω 28	17°43	21°25	25 Y 11	W 2
T 3	4 48 35	11°18'23	25°38	11°12	28°19	28°16	22° 6	20°26	24°35	25° 0	16°51	16°23	17°40	21°32	25° 9	T 3
F 4	4 52 32	12°19'22	7 ≈ 36	9°50	29°16	28°48	22° 7	20°25	24°33	25° 0	16°50	16°20	17°37	21°39	25° 7	F 4
S 5	4 56 28	13°20'22	19°25	8°30	0≈13	29°19	22° 8	20°25	24°32	25° 1	16°49	16°D20	17°33	21°45	25° 5	S 5
S 6	5 0 25	14°21'22	1) 12	7°16	1° 9	29°51	22° 8	20°24	24°30	25° 2	16°48	16°21	17°30	21°52	25° 4	S 6
M 7	5 4 22	15°22'24	13° 1	6°10	2° 4	0 <u>₽</u> 22	22° 9	20°24	24°29	25° 3	16°47	16°R21	17°27	21°59	25° 2	M 7
T 8	5 8 18	16°23'25	24°59	5°12	2°59	0°54	22°R 9	20°23	24°28	25° 5	16°46	16°21	17°24	22° 5	25° 0	T 8
W 9	5 12 15	17°24'27	7 Υ 10	4°26	3°53	1°25	22° 8	20°22	24°27	25° 6	16°45	16°19	17°21	22°12	24°59	W 9
T 10	5 16 11	18°25'30	19°39	3°50	4°47	1°56	22° 8	20°21	24°25	25° 7	16°44	16°14	17°18	22°19	24°57	T 10
F 11	5 20 8	19°26'33	2 8 31	3°26	5°39	2°27	22° 8	20°20	24°24	25° 8	16°43	16° 7	17°14	22°25	24°56	F 11
S 12	5 24 4	20°27'37	15°47	3°12	6°31	2°57	22° 7	20°19	24°23	25° 9	16°42	15°59	17°11	22°32	24°55	S 12
S 13	5 28 1	21°28'41	29°28	3°D 9	7°23	3°28	22° 6	20°18	24°22	25°10	16°40	15°49	17° 8	22°38	24°53	S 13
M14	5 31 57	22°29'45	13耳31	3°16	8°13	3°59	22° 5	20°16	24°21	25°12	16°39	15°40	17° 5	22°45	24°52	M14
T 15	5 35 54	23°30'50	27°52	3°32	9° 3	4°29	22° 3	20°15	24°20	25°13	16°38	15°32	17° 2	22°52	24°51	T 15
W16	5 39 51	24°31'56	129525	3°56	9°52	4°59	22° 2	20°13	24°19	25°14	16°37	15°25	16°59	22°58	24°50	W16
T 17	5 43 47	25°33'02	27° 4	4°27	10°40	5°29	22° 0	20°11	24°19	25°16	16°36	15°22	16°55	23° 5	24°49	T 17
F 18	5 47 44	26°34'09	11 Ω 40	5° 5	11°27	5°59	21°58	20°10	24°18	25°17	16°35	15°D20	16°52	23°12	24°48	F 18
S 19	5 51 40	27°35'17	26°10	5°49	12°13	6°29	21°56	20° 8	24°17	25°18	16°33	15°21	16°49	23°18	24°47	S 19
S 20	5 55 37	28°36'25	10 m 29	6°38	12°59	6°58	21°54	20° 6	24°16	25°20	16°32	15°22	16°46	23°25	24°46	S 20
M21	5 59 33	29°37'33	24°36	7°32	13°43	7°28	21°51	20° 4	24°16	25°21	16°31	15°R23	16°43	23°32	24°45	M21
T 22	6 3 30	0중38'43	8 ॒ 29	8°30	14°26	7°57	21°49	20° 1	24°15	25°23	16°30	15°23	16°39	23°38	24°44	T 22
W23	6 7 26	1°39'53	22° 8	9°31	15° 8	8°26	21°46	19°59	24°15	25°24	16°28	15°21	16°36	23°45	24°43	W23
T 24	6 11 23	2°41'03	5 M 34	10°36	15°49	8°55	21°43	19°57	24°14	25°26	16°27	15°17	16°33	23°52	24°42	T 24
F 25	6 15 20	3°42'14	18°48	11°44	16°28	9°24	21°40	19°54	24°14	25°27	16°26	15°11	16°30	23°58	24°42	F 25
S 26	6 19 16	4°43'25	1 ∡ 748	12°54	17° 7	9°52	21°36	19°51	24°13	25°29	16°25	15° 4	16°27	24° 5	24°41	S 26
S 27	6 23 13	5°44'36	14°36	14° 6	17°44	10°21	21°33	19°49	24°13	25°30	16°23	14°56	16°24	24°12	24°41	S 27
M28	6 27 9	6°45'48	27°12	15°20	18°20	10°49	21°29	19°46	24°13	25°32	16°22	14°49	16°20	24°18	24°40	M28
T 29	631 6	7°47'00	9 ට 35	16°36	18°54	11°17	21°25	19°43	24°12	25°34	16°21	14°43	16°17	24°25	24°40	T 29
W30	6 35 2	8°48'12	21°47	17°54	19°27	11°45	21°21	19°40	24°12	25°35	16°20	14°39	16°14	24°31	24°40	W30
T 31	6 38 59	9 る 49'23	3≈48	19 × 13	19 ≈ 59	12 ≏ 12	21 Ω 16	19 Ω 37	24 Y 12	25≈37	16918	14 Ω 36	16 N 11	24≈38	24 Y 39	T 31

Day	0	D	ğ	5	2	♂	2	+	ŧ	l.)	ł(并		Р		n	v	Ç	ď	5
	decl	decl lat	decl	lat decl	lat de	el lat	decl	lat	decl	lat	decl	lat	decl lat		decl lat		decl	decl	decl	decl	lat
T 1 W 2	21 s53 22 2		21 s43 21 14	0n47 23 s35 1 7 23 20			14n56 14 56	0n49 0 49	-	1n 3	9n 1 9 1	0s34 0 34		34 22 34 22		-	15n53 15 56			9n41 9 40	0s 6
T 3 F 4	22 10 22 19	19 17 1 48	20 44	1 27 23 6 1 45 22 51		23 1 51	14 56	0 49 0 49	15 42	1 3 1 3	9 0	0 34	13 45 0	34 22		0	15 57	15 34		9 39 9 38	0 6
S 5	22 26		19 46	2 1 22 35				0 50		1 4	8 59			34 22					14 38	9 38	0 6
S 6 M 7	22 34 22 40	-	19 20 18 58	2 15 22 19 2 27 22 3			14 56 14 56	0 50 0 50	-	1 4 1 4	8 59 8 58		-		2 26 0 2 26 0				14 37 14 35	9 37 9 36	$\begin{array}{cc} 0 & 6 \\ 0 & 6 \end{array}$
T 8 W 9	22 47 22 53		18 38 18 23	2 36 21 46 2 44 21 29		-	14 57 14 57	0 50 0 51	15 44 15 44	1 4 1 4	8 58 8 58				2 26 C				14 34 14 33	9 36 9 35	0 7 0 7
T 10 F 11	22 58 23 3	3n28 4 34 7 42 4 57	18 11	2 49 21 12 2 52 20 54				0 51 0 51	15 45 15 45	1 5 1 5	8 57 8 57	0 34 0 34		34 22 34 22	2 27 0		16 0 16 2		14 31 14 30	9 34 9 34	0 7 0 7
S 12	23 8			2 53 20 36	1 59 0		14 58	0 51	15 46	1 5	8 56			34 22					14 29	9 33	0 7
S 13 M14	23 12 23 16	17 59 4 31	18 3	2 53 20 18 2 51 19 59	1 48 0	2 1 57	14 59	0 52 0 52	15 47	1 5 1 5	8 56 8 56	0 34	13 41 0	34 22 34 22	2 27 0) 1	16 10	15 44	14 27 14 26	9 33 9 32	0 7 0 7
	-	20 7 2 48	18 17	2 48 19 40 2 44 19 21	1 37 0s		15 1	0 52 0 52	15 49	1 6 1 6	8 55 8 55	0 34	13 40 0	34 22 34 22	2 28 0		16 14	15 46	-	9 32 9 31	0 7 0 7
T 17 F 18 S 19	23 24 23 26 23 27			2 39 19 2 2 33 18 43 2 26 18 23	1 24 0	1 59		0 53 0 53 0 53		1 6 1 6 1 6	8 55 8 55 8 54	0 34	13 39 0	34 22 34 22 34 22	2 28 0	1	16 16	15 48	14 22 14 21 14 19	9 31 9 30 9 30	0 7 0 7 0 7
S 20	23 28		19 10	2 19 18 4		56 2 0	15 4	0 53	15 52	1 7	8 54	0 34			2 29 0				14 18	9 29	0 7
M21 T 22	23 29 23 29	5 9 3 16 0 26 4 8		2 12 17 44 2 4 17 24	1 2 1 0 54 1	7 2 1 8 2 1	15 5 15 6	0 54 0 54	15 53 15 53	1 7 1 7	8 54 8 54	0 34 0 34			2 29 C 2 29 C				14 17 14 15	9 29 9 29	0 8 0 8
W23 T 24	23 28 23 27	4s14 4 45 8 36 5 5		1 57 17 4 1 48 16 44		29 2 2 40 2 2	-	0 54 0 54		1 7 1 7	8 54 8 53			34 22 34 22	2 29 0 2 29 0		16 16 16 17		14 14 14 13	9 28 9 28	0 8 0 8
F 25 S 26	23 26 23 24	12 29 5 9 15 43 4 57	20 35 20 52	1 40 16 24 1 32 16 4		51 2 3 1 2 3	-	0 54 0 55		1 8 1 8	8 53 8 53			34 22 34 22					14 11 14 10	9 28 9 27	0 8 0 8
S 27 M28	23 21 23 18	18 7 4 30 19 37 3 50		1 23 15 44 1 15 15 24		12 2 4 23 2 5		0 55 0 55		1 8 1 8	8 53 8 53			34 22 34 22	2 30 0		16 23 16 25		14 8 14 7	9 27 9 27	0 8 0 8
T 29	23 15	20 9 2 59		1 6 15 4 0 58 14 44	0n 7 2	33 2 5	15 16	0 55 0 56	16 0	1 8	8 53 8 53	0 33	13 33 0	34 22		2	16 27	15 59	14 6	9 27 9 27 9 26	0 8 0 8
	23 s 7		21 58 22 s 13			-	15 17 15n19		16 2 16n 3	1 9 1n 9	8 53 8n53			34 22					14 4 14s 3	9 26 9n26	0 8 0s 8

Julian Day Number = 2335732.5, Delta T = 22.03 sec Ecliptic obliquity = $23^{\circ}28'43$, Nutation = - $0^{\circ}00'13$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}18'51$, Lahiri = $19^{\circ}25'51$ Greg. Calendar