

Astrodienst Ephemeris Tables for the year 1998

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 1998 00:00 UT

Day	Sid.t	0	D	ğ	Ω	ð	24	ħ)ţ(¥	Р	R	Ω	Ç	ķ	Day
T 1	6 41 47	10 3 21'26	9≈59	18 × ⁷ 29	3°R24	10≈46	22≈15	13 Y 45	7≈ 7	28 ප් 57	6 ₹ 46	12°R20	13 m 44	1 ₽ 54	15 M _31	T 1
F 2	6 45 43	11°22'36	24° 8	19° 7	3≈10	11°33	22°27	13°47	7°10	28°59	6°48	12 m)16	13°40	2° 1	15°37	F 2
S 3	6 49 40	12°23'46	8) 19	19°50	2°54	12°20	22°40	13°49	7°14	29° 1	6°50	12°D15	13°37	2° 7	15°43	S 3
S 4	6 53 36	13°24'56	22°30	20°39	2°35	13° 8	22°53	13°51	7°17	29° 3	6°52	12°15	13°34	2°14	15°49	S 4
M 5	6 57 33	14°26'06	6 Υ 39	21°32	2°14	13°55	23° 5	13°53	7°20	29° 5	6°54	12°16	13°31	2°21	15°55	M 5
T 6	7 1 29	15°27'16	20°44	22°28	1°50	14°42	23°18	13°55	7°24	29° 8	6°56	12°R16	13°28	2°27	16° 0	T 6
W 7	7 5 26	16°28'25	4844	23°28	1°24	15°30	23°31	13°57	7°27	29°10	6°58	12°14	13°24	2°34	16° 6	W 7
T 8	7 9 22	17°29'33	18°39	24°32	0°57	16°17	23°44	14° 0	7°30	29°12	7° 0	12°10	13°21	2°41	16°12	T 8
F 9	7 13 19	18°30'41	2Ⅱ28	25°38	0°27	17° 4	23°57	14° 2	7°34	29°14	7° 2	12° 4	13°18	2°47	16°17	F 9
S 10	7 17 16	19°31'49	16° 8	26°46	29 궁 56	17°51	24°10	14° 5	7°37	29°17	7° 4	11°56	13°15	2°54	16°23	S 10
S 11	7 21 12	20°32'56	29°36	27°57	29°23	18°39	24°23	14° 8	7°40	29°19	7° 5	11°47	13°12	3° 1	16°28	S 11
M12	7 25 9	21°34'03	12951	29° 9	28°49	19°26	24°37	14°10	7°44	29°21	7° 7	11°37	13° 9	3° 7	16°33	M12
T 13	7 29 5	22°35'10	25°51	0 궁 24	28°14	20°13	24°50	14°13	7°47	29°23	7° 9	11°29	13° 5	3°14	16°38	T 13
W14	7 33 2	23°36'16	8 Ω 35	1°40	27°38	21° 1	25° 3	14°16	7°51	29°26	7°11	11°22	13° 2	3°21	16°43	W14
T 15	7 36 58	24°37'22	21° 3	2°58	27° 2	21°48	25°16	14°19	7°54	29°28	7°13	11°18	12°59	3°27	16°48	T 15
F 16	7 40 55	25°38'28	3 m) 17	4°16	26°25	22°35	25°30	14°23	7°57	29°30	7°14	11°16	12°56	3°34	16°53	F 16
S 17	7 44 51	26°39'33	15°18	5°37	25°48	23°23	25°43	14°26	8° 1	29°32	7°16	11°D15	12°53	3°41	16°58	S 17
S 18	7 48 48	27°40'38	27°11	6°58	25°11	24°10	25°57	14°29	8° 4	29°35	7°18	11°16	12°50	3°47	17° 3	S 18
M19	7 52 45	28°41'43	8 ₾ 59	8°20	24°35	24°57	26°11	14°33	8° 8	29°37	7°19	11°18	12°46	3°54	17° 7	M19
T 20	7 56 41	29°42'47	20°48	9°44	23°59	25°45	26°24	14°36	8°11	29°39	7°21	11°19	12°43	4° 1	17°12	T 20
W21	8 0 38	0≈43'51	2 M .42	11° 8	23°24	26°32	26°38	14°40	8°15	29°42	7°23	11°R20	12°40	4° 7	17°16	W21
T 22	8 4 34	1°44'54	14°48	12°33	22°51	27°19	26°52	14°44	8°18	29°44	7°24	11°19	12°37	4°14	17°21	T 22
F 23	8 8 31	2°45'57	27°10	13°59	22°19	28° 7	27° 5	14°48	8°22	29°46	7°26	11°16	12°34	4°21	17°25	F 23
S 24	8 12 27	3°47'00	9 ∡ 52	15°26	21°48	28°54	27°19	14°52	8°25	29°48	7°27	11°12	12°30	4°27	17°29	S 24
S 25	8 16 24	4°48'03	22°56	16°53	21°19	29°41	27°33	14°56	8°29	29°51	7°29	11° 6	12°27	4°34	17°33	S 25
M26	8 20 20	5°49'04	6 ප 25	18°22	20°52	0 ∺ 29	27°47	15° 0	8°32	29°53	7°30	11° 0	12°24	4°41	17°37	M26
T 27	8 24 17	6°50'05	20°18	19°51	20°28	1°16	28° 1	15° 4	8°36	29°55	7°32	10°54	12°21	4°47	17°41	T 27
W28	8 28 14	7°51'05	4≈30	21°21	20° 5	2° 3	28°15	15° 8	8°39	29°57	7°33	10°49	12°18	4°54	17°45	W28
T 29	8 32 10	8°52'05	18°58	22°51	19°44	2°51	28°29	15°13	8°43	29°59	7°35	10°46	12°15	5° 1	17°48	T 29
F 30	8 36 7	9°53'03	3 ∺ 35	24°22	19°26	3°38	28°43	15°17	8°46	0 ≈ 2	7°36	10°44	12°11	5° 7	17°52	F 30
S 31	8 40 3	10≈54'00	18) 14	25 궁 54	19 ਰ 11	4 ∺ 25	28≈57	15 Y 22	8≈50	0≈ 4	7 .₹ 37	10°D44	12 Mp 8	5 ≏ 14	17 M 55	S 31

Day	0	D	ğ	Ф	♂ [™]	4	ħ)∤(¥	Р	N i	υ ¢	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl d	ecl de	el decl lat
T 1 F 2 S 3	23 s 2 22 57 22 52	11 59 1 3	5 20 35 2	25 17 12 2 18	18 26 1 10	14 s55 0 s52 14 51 0 52 14 47 0 52	3n 7 2s31 3 8 2 30 3 9 2 30	19 4 0 36		9 s42 11 n54 9 42 11 54 9 42 11 54	6 57 6	25 0 4	13 15 s17 1n15 11 15 19 1 15 39 15 20 1 16
S 4 M 5 T 6 W 7 T 8	22 46 22 39 22 33 22 25 22 18	0n42 2 5 8 3 1 9 16 4 12 52 4 4	1 21 23 1 3 21 35 1 1 21 47 1	0 16 40 3 4 51 16 30 3 20 42 16 20 3 36 33 16 11 3 51	17 45 1 9 17 31 1 9 17 17 1 8 17 2 1 8	14 43 0 52 14 38 0 52 14 34 0 52 14 30 0 52 14 26 0 52	3 10 2 30 3 11 2 30 3 12 2 29 3 13 2 29 3 14 2 29	19 1 0 36 19 0 0 36 18 59 0 36 18 58 0 36	19 59 0 22 19 59 0 22 19 58 0 22 19 58 0 22	9 43 11 54 9 43 11 54 9 43 11 54 9 43 11 55 9 43 11 55	6 58 6 6 58 6 6 58 6 7 0 6	29 0 3 30 0 3 31 0 3 33 0 3	38 15 22 1 16 36 15 23 1 16 34 15 24 1 17 32 15 25 1 17 30 15 26 1 18
F 9 S 10 S 11	21 52	17 39 5 1 18 34 4 5	5 22 9 1 2 22 20 1	15 15 54 4 21 6 15 46 4 36	16 33 1 7 16 18 1 7	14 17 0 52 14 13 0 52	3 17 2 28 3 18 2 28	18 56 0 36	19 57 0 22 19 56 0 22	9 43 11 55 9 43 11 55 9 44 11 55	7 5 6 7 9 6	35 0 2 36 0 2	28 15 28 1 18 26 15 29 1 19 24 15 30 1 19
M12 T 13 W14 T 15 F 16 S 17	21 43 21 33 21 22 21 12 21 1 20 49	17 22 3 44 15 25 2 4 12 47 1 4 9 38 0 4	0 22 38 0 7 22 46 0 7 22 54 0 8 23 0 0	48 15 32 5 5 39 15 26 5 18 31 15 20 5 31 22 15 15 5 44	15 47 1 6 15 32 1 6 15 16 1 6 15 1 1 5	14 4 0 52 13 59 0 52 13 55 0 52	3 23 2 27 3 25 2 27	18 54 0 36 18 53 0 36 18 52 0 36 18 51 0 36	19 55 0 22 19 55 0 22	9 44 11 56 9 44 11 57	7 15 6 7 18 6 7 20 6 7 21 6	39 0 2 40 0 1 41 0 1 42 0 1	23 15 31 1 19 21 15 32 1 20 19 15 33 1 20 17 15 34 1 21 15 15 35 1 21 13 15 36 1 22
S 18 M19 T 20 W21 T 22 F 23 S 24	20 37 20 25 20 13 20 0 19 46 19 32 19 18	1 s20 2 2: 5 3 3 1: 8 36 4 4 11 50 4 3: 14 37 5 :	3 23 15 0 4 23 16 0 9 23 16 0 2 23 15 0	s 3 15 2 6 17 10 14 58 6 26 18 14 55 6 35 26 14 53 6 42 33 14 51 6 49	14 12 1 4 13 56 1 4 13 40 1 3 13 23 1 3	13 36 0 52 13 32 0 52 13 27 0 52 13 22 0 52 13 18 0 52	3 29 2 26 3 31 2 26 3 33 2 25 3 34 2 25 3 36 2 25		19 53 0 22 19 52 0 22 19 52 0 22 19 51 0 22 19 51 0 22	9 44 11 57 9 44 11 57 9 44 11 57 9 44 11 58 9 44 11 58 9 44 11 58	7 20 6 7 19 6 7 19 6 7 19 6 7 20 6	46 0 47 0 48 0 50 0 51 0	11 15 37 1 22 9 15 38 1 22 7 15 39 1 23 6 15 39 1 23 4 15 40 1 24 2 15 41 1 24 0 15 42 1 25
S 25 M26 T 27 W28 T 29 F 30 S 31	18 49 18 34 18 18	18 36 4 42 17 56 4 16 8 3 : 13 17 1 56 9 35 0 39	2 23 3 0 1 22 57 1 5 22 50 1 6 22 41 1 9 22 31 1	53 14 48 7 5 0 14 48 7 9 6 14 49 7 12 12 14 49 7 14 17 14 50 7 16	11 41 1 0 11 23 1 0 11 6 0 59	13 3 0 52	3 41 2 24 3 43 2 24 3 45 2 24 3 47 2 24 3 49 2 23	18 41 0 36 18 41 0 36 18 40 0 36 18 39 0 36	19 49 0 22	9 44 11 58 9 44 11 59 9 44 11 59 9 44 11 59 9 44 12 0 9 44 12 0 9 s44 12n 0	7 29 6 7 31 6 7 32 6 7 32 6	54 0 56 0 57 0 58 0 59 0 1	2 15 42 1 25 4 15 43 1 26 6 15 44 1 26 8 15 44 1 26 9 15 45 1 27 11 15 45 1 27 3 15 s46 1n28

Julian Day Number = 2450814.5, Delta T = 62.97 sec Ecliptic obliquity = $23^{\circ}26'13$, Nutation = - $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}42'45$, Lahiri = $23^{\circ}49'45$

FEBRUARY 1998 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(,	Р	R	Ω	Ç	ķ	Day
						_	-								_	,
S 1	8 44 0	11≈54'56	2 Υ 49	27 중 27	18°R57	5 ₩13	29≈11	15 Y 26	8 ≈ 53	0≈ 6	7 , ₹39	10 m)45	12 m 5	5 Ω 20	17 M .59	S 1
M 2	8 47 56	12°55'51	17°16	29° 0	18 3 47	6° 0	29°25	15°31	8°57 9° 0	0° 9	7°40	10°47	12° 2	5°27	18° 2	M 2
T 3	8 51 53	13°56'44	1832	0≈34	18°38	6°47	29°39	15°36		0°11	7°41	10°48	11°59	5°34	18° 5	T 3
W 4	8 55 49	14°57'36	15°33	2° 9	18°32	7°34	29°54	15°41	9° 4	0°13	7°42	10°R49	11°56	5°40	18° 8	W 4
T 5	8 59 46	15°58'26	29°21	3°45	18°29	8°22	0 ∺ 8	15°46	9° 7	0°15	7°44	10°48	11°52	5°47	18°11	T 5
F 6	9 3 43	16°59'15	12 II 53	5°21	18°D28	9° 9	0°22	15°51	9°11	0°18	7°45	10°46	11°49	5°54	18°14	F 6
S 7	9 7 3 9	18° 0'03	26°11	6°58	18°30	9°56	0°36	15°56	9°14	0°20	7°46	10°43	11°46	6° 0	18°16	S 7
S 8	9 11 36	19° 0'49	99516	8°36	18°33	10°43	0°51	16° 1	9°18	0°22	7°47	10°40	11°43	6° 7	18°19	S 8
M 9	9 15 32	20° 1'34	22° 6	10°14	18°40	11°30	1° 5	16° 6	9°21	0°24	7°48	10°37	11°40	6°14	18°21	M 9
T 10	9 19 29	21° 2'17	4Ω44	11°53	18°48	12°17	1°19	16°12	9°25	0°26	7°49	10°34	11°36	6°20	18°24	T 10
W11	9 23 25	22° 2'59	17°10	13°34	18°59	13° 5	1°34	16°17	9°28	0°28	7°50	10°31	11°33	6°27	18°26	W11
T 12	9 27 22	23° 3'40	29°25	15°15	19°12	13°52	1°48	16°23	9°32	0°31	7°51	10°30	11°30	6°34	18°28	T 12
F 13	9 31 18	24° 4'19	11 m 29	16°56	19°27	14°39	2° 2	16°28	9°35	0°33	7°52	10°D30	11°27	6°40	18°30	F 13
S 14	9 35 15	25° 4'57	23°26	18°39	19°44	15°26	2°17	16°34	9°38	0°35	7°53	10°30	11°24	6°47	18°32	S 14
S 15	9 39 12	26° 5'33	5 ≙ 17	20°22	20° 3	16°13	2°31	16°40	9°42	0°37	7°54	10°31	11°21	6°54	18°34	S 15
M16	9 43 8	27° 6'09	17° 5	22° 7	20°24	17° 0	2°45	16°45	9°45	0°39	7°54	10°32	11°17	7° 0	18°35	M16
T 17	9 47 5	28° 6'43	28°54	23°52	20°46	17°47	3° 0	16°51	9°49	0°41	7°55	10°34	11°14	7° 7	18°37	T 17
W18	9 51 1	29° 7'15	10 M .49	25°38	21°11	18°34	3°14	16°57	9°52	0°43	7°56	10°35	11°11	7°14	18°38	W18
T 19	9 54 58	0) 7'47	22°53	27°25	21°37	19°21	3°29	17° 3	9°55	0°45	7°57	10°35	11°8	7°20	18°40	T 19
F 20	9 58 54	1° 8'17	5 ₹ 12	29°13	22° 5	20° 8	3°43	17° 9	9°59	0°47	7°57	10°R35	11° 5	7°27	18°41	F 20
S 21	10 2 51	2° 8'46	17°49	1₩ 2	22°35	20°54	3°58	17°15	10° 2	0°49	7°58	10°35	11° 2	7°34	18°42	S 21
S 22	10 647	3° 9'14	0 궁 50	2°52	23° 6	21°41	4°12	17°21	10° 5	0°51	7°59	10°34	10°58	7°40	18°43	S 22
M23	10 10 44	4° 9'40	14°16	4°42	23°39	22°28	4°27	17°27	10° 9	0°53	7°59	10°34	10°55	7°47	18°44	M23
T 24	10 14 41	5°10'05	28° 8	6°34	24°13	23°15	4°41	17°34	10°12	0°55	8° 0	10°33	10°52	7°54	18°45	T 24
W25	10 18 37	6°10'29	12≈26	8°26	24°48	24° 2	4°56	17°40	10°15	0°57	8° 0	10°32	10°49	8° 0	18°45	W25
T 26	10 22 34	7°10'50	27° 6	10°19	25°25	24°48	5°10	17°46	10°18	0°59	8° 1	10°32	10°46	8° 7	18°46	T 26
F 27	10 26 30	8°11'11	12) 1	12°12	26° 3	25°35	5°24	17°53	10°22	1° 1	8° 1	10°D32	10°42	8°14	18°46	F 27
S 28	10 30 27	9) 11'29	27) 3	14 米 6	26 궁 42	26 米 22	5 ₩ 39	17 Y 59	10≈25	1≈ 3	8 √ 2	10 m /32	10 m 39	8 亞 20	18 M .47	S 28

Day	0	D	ğ	φ	ð	24	ħ)f(卉	Р	n	ß	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl	decl	decl lat
S 1	17 s13	0 s41 1 s58	22s 6 1s2	8 14s54 7n16	10 s30 0 s58	12s34 0s52	3n53 2s23	18 s 37 0 s 36	19s47 0n21	9s44 12n 0	7n32	7n 2	0s15	15 s46 1n28
M 2	16 56	3n54 3 7	21 52 1 3	3 14 56 7 16	10 12 0 58	12 29 0 52	3 55 2 23	18 36 0 36	19 46 0 21	9 43 12 1	7 31	7 3	0 17	15 47 1 29
T 3	16 38	8 11 4 4	21 36 1 3	7 14 58 7 15	9 55 0 57	12 24 0 52	3 57 2 22	18 35 0 36	19 46 0 21	9 43 12 1	7 31	7 4	0 19	15 47 1 29
W 4	16 21	11 57 4 45	21 19 1 4	1 15 0 7 13	9 37 0 57	12 19 0 52	3 59 2 22	18 34 0 36	19 45 0 21	9 43 12 1	7 31	7 5	0 21	15 48 1 30
T 5	16 3	14 59 5 8	21 1 1 4	5 15 3 7 11	9 18 0 56	12 14 0 52	4 1 2 22	18 33 0 36	19 45 0 21	9 43 12 2	7 31	7 7	0 23	15 48 1 30
F 6	15 45	17 8 5 15	20 41 1 4	9 15 6 7 8	9 0 0 56	12 9 0 52	4 3 2 22	18 32 0 36	19 44 0 21	9 43 12 2	7 32	7 8	0 25	15 48 1 31
S 7	15 26	18 20 5 3	20 20 1 5	2 15 9 7 5	8 42 0 55	12 4 0 52	4 5 2 22	18 31 0 36	19 44 0 21	9 43 12 2	7 33	7 9	0 26	15 48 1 31
S 8	15 7	18 31 4 37	19 58 1 5	5 15 12 7 1	8 24 0 55	11 59 0 52	4 8 2 21	18 30 0 36	19 43 0 21	9 43 12 2	7 34	7 10	0 28	15 49 1 32
M 9	14 48	17 44 3 56	19 34 1 5	8 15 15 6 57	8 5 0 54	11 54 0 52	4 10 2 21	18 30 0 36	19 43 0 21	9 43 12 3	7 35	7 11	0 30	15 49 1 32
T 10	14 29	16 5 3 5	19 9 2	0 15 18 6 53	7 47 0 54	11 49 0 52	4 12 2 21	18 29 0 36	19 42 0 21	9 42 12 3	7 36	7 13	0 32	15 49 1 33
W11	14 10	13 42 2 5	18 42 2	2 15 22 6 48	7 28 0 53	11 44 0 52	4 14 2 21	18 28 0 36	19 42 0 21	9 42 12 3	7 37	7 14	0 34	15 49 1 33
T 12	13 50	10 43 1 1	18 14 2	4 15 25 6 43	7 10 0 53	11 39 0 52	4 16 2 21	18 27 0 36	19 42 0 21	9 42 12 4	7 38	7 15	0 36	15 49 1 34
F 13	13 30	7 20 On 6	17 44 2	5 15 28 6 38	6 51 0 52	11 34 0 52	4 19 2 20	18 26 0 36	19 41 0 21	9 42 12 4	7 38	7 16	0 38	15 49 1 34
S 14	13 10	3 42 1 11	17 13 2	6 15 31 6 32	6 32 0 52	11 29 0 52	4 21 2 20	18 25 0 36	19 41 0 21	9 42 12 4	7 38	7 17	0 40	15 49 1 35
S 15	12 49	0s 4 2 13	16 41 2	6 15 34 6 26	6 14 0 51	11 24 0 53	4 23 2 20	18 24 0 36	19 40 0 21	9 42 12 5	7 37	7 19	0 42	15 49 1 35
M16	12 29	3 48 3 9	16 7 2	6 15 37 6 20	5 55 0 51	11 18 0 53	4 26 2 20	18 23 0 36	19 40 0 21	9 41 12 5	7 37	7 20	0 44	15 49 1 36
T 17	12 8	7 23 3 58	15 32 2	5 15 40 6 14	5 36 0 50	11 13 0 53	4 28 2 20	18 22 0 36	19 39 0 21	9 41 12 5	7 36	7 21	0 45	15 49 1 36
	11 47	10 42 4 36	14 56 2	4 15 43 6 8	5 17 0 50	11 8 0 53	4 31 2 20	18 21 0 36	19 39 0 21	9 41 12 6	7 36	7 22	0 47	15 49 1 37
T 19	11 26	13 36 5 3	14 18 2	3 15 45 6 1	4 58 0 49	11 3 0 53	4 33 2 19	18 21 0 36	19 38 0 21	9 41 12 6	7 36	7 23	0 49	15 49 1 37
F 20	11 4	15 59 5 16	13 38 2	1 15 48 5 54	4 39 0 49	10 58 0 53	4 35 2 19	18 20 0 36	19 38 0 21	9 41 12 6	7 36	7 25	0 51	15 49 1 38
S 21	10 43	17 39 5 15	12 57 1 5	9 15 50 5 48	4 20 0 48	10 53 0 53	4 38 2 19	18 19 0 36	19 38 0 21	9 40 12 7	7 36	7 26	0 53	15 49 1 38
S 22	10 21	18 28 4 58	12 15 1 5	6 15 52 5 41	4 1 0 48	10 47 0 53	4 40 2 19	18 18 0 36	19 37 0 21	9 40 12 7	7 36	7 27	0 55	15 49 1 38
M23	9 59	18 17 4 25	11 32 1 5	2 15 53 5 34	3 42 0 47	10 42 0 53	4 43 2 19	18 17 0 36	19 37 0 21	9 40 12 7	7 36	7 28	0 57	15 48 1 39
T 24	9 37	17 2 3 35	10 47 1 4	8 15 54 5 27	3 23 0 46	10 37 0 53	4 45 2 19	18 16 0 36	19 36 0 21	9 40 12 8	7 37	7 29	0 59	15 48 1 39
W25	9 15	14 40 2 30	10 1 1 4	4 15 56 5 19	3 4 0 46	10 32 0 53	4 48 2 18	18 15 0 36	19 36 0 21	9 39 12 8	7 37	7 31	1 1	15 48 1 40
T 26	8 52	11 19 1 14	9 14 1 3	9 15 56 5 12	2 45 0 45	10 26 0 53	4 50 2 18	18 14 0 36	19 35 0 21	9 39 12 8	7 37	7 32	1 2	15 48 1 40
F 27	8 30	7 11 0s 8	8 25 1 3	3 15 57 5 5	2 26 0 45	10 21 0 53	4 53 2 18	18 14 0 36	19 35 0 21	9 39 12 9	7 37	7 33	1 4	15 47 1 41
S 28	8s 7	2 s33 1 s31	7 s 3 5 1 s 2	7 15 s57 4n57	2 s 7 0 s44	10s16 0s53	4n56 2s18	18 s13 0 s36	19s35 0n21	9s39 12n 9	7n37	7n34	1 s 6	15 s47 1n42

 $\label{eq:Julian Day Number = 2450845.5, Delta T = 63.02 sec} \\ Ecliptic obliquity = 23°26'14, Nutation = -0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°42'49, Lahiri = 23°49'49} \\$

MARCH 1998 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(¥	Р	v	v	Ç	Ŗ	Day
S 1	10 34 23	10) 11'45	12 ° 4	16 米 1	27る23	27 米 9	5 ¥ 53	18 Y 6	10≈28	1≈ 5	8 √ 2	10°R32	10 m 36	8 ≏ 27	18 M 47	S 1
M 2	10 38 20	11°12'00	26°56	17°56	28° 4	27°55	6° 8	18°12	10°31	1° 7	8° 2	10 Mp 32	10°33	8°34	18°R47	M 2
T 3	10 42 16	12°12'13	11831	19°51	28°47	28°42	6°22	18°19	10°34	1° 9	8° 3	10°32	10°30	8°40	18°47	T 3
W 4	10 46 13	13°12'23	25°46	21°46	29°30	29°28	6°37	18°25	10°37	1°10	8° 3	10°32	10°27	8°47	18°47	W 4
T 5	10 50 10	14°12'32	9∏39	23°41	0≈14	o Υ 15	6°51	18°32	10°40	1°12	8° 3	10°D32	10°23	8°54	18°46	T 5
F 6	10 54 6	15°12'38	23° 9	25°35	1° 0	1° 1	7° 5	18°39	10°43	1°14	8° 3	10°32	10°20	9° 0	18°46	F 6
S 7	10 58 3	16°12'42	6917	27°28	1°46	1°48	7°20	18°46	10°47	1°16	8° 3	10°32	10°17	9° 7	18°46	S 7
S 8	11 1 59	17°12'44	19° 7	29°21	2°33	2°34	7°34	18°52	10°50	1°17	8° 4	10°33	10°14	9°14	18°45	S 8
M 9	11 5 56	18°12'44	1 Ω 41	1 Υ 11	3°21	3°21	7°48	18°59	10°52	1°19	8° 4	10°33	10°11	9°20	18°44	M 9
T 10	11 9 52	19°12'42	14° 1	3° 0	4°10	4° 7	8° 3	19° 6	10°55	1°21	8° 4	10°34	10° 7	9°27	18°43	T 10
W11	11 13 49	20°12'38	26°11	4°47	5° 0	4°53	8°17	19°13	10°58	1°23	8°R 4	10°35	10° 4	9°34	18°42	W11
T 12	11 17 45	21°12'32	8 m 13	6°30	5°50	5°40	8°31	19°20	11° 1	1°24	8° 4	10°R35	10° 1	9°40	18°41	T 12
F 13	11 21 42	22°12'23	20° 8	8°10	6°41	6°26	8°46	19°27	11° 4	1°26	8° 4	10°35	9°58	9°47	18°40	F 13
S 14	11 25 38	23°12'13	1 ≏ 59	9°46	7°33	7°12	9° 0	19°34	11° 7	1°27	8° 4	10°34	9°55	9°54	18°39	S 14
S 15	11 29 35	24°12'01	13°49	11°18	8°26	7°58	9°14	19°41	11°10	1°29	8° 4	10°33	9°52	10° 0	18°38	S 15
M16	11 33 32	25°11'47	25°38	12°45	9°19	8°44	9°28	19°48	11°12	1°30	8° 3	10°31	9°48	10° 7	18°36	M16
T 17	11 37 28	26°11'31	7 M .30	14° 7	10°12	9°30	9°43	19°56	11°15	1°32	8° 3	10°28	9°45	10°14	18°35	T 17
W18	11 41 25	27°11'13	19°27	15°22	11° 7	10°16	9°57	20° 3	11°18	1°33	8° 3	10°26	9°42	10°20	18°33	W18
T 19	11 45 21	28°10'54	1 ₹ 33	16°32	12° 1	11° 2	10°11	20°10	11°21	1°35	8° 3	10°23	9°39	10°27	18°31	T 19
F 20	11 49 18	29°10'33	13°51	17°34	12°57	11°48	10°25	20°17	11°23	1°36	8° 2	10°22	9°36	10°34	18°29	F 20
S 21	11 53 14	0 Υ 10'10	26°25	18°30	13°53	12°34	10°39	20°25	11°26	1°38	8° 2	10°D21	9°33	10°40	18°27	S 21
S 22	11 57 11	1° 9'45	9 궁 19	19°19	14°49	13°20	10°53	20°32	11°28	1°39	8° 2	10°21	9°29	10°47	18°25	S 22
M23	12 1 7	2° 9'19	22°37	20° 0	15°46	14° 6	11° 7	20°39	11°31	1°41	8° 1	10°22	9°26	10°54	18°23	M23
T 24	12 5 4	3° 8'51	6≈20	20°33	16°44	14°52	11°21	20°47	11°33	1°42	8° 1	10°24	9°23	11° 0	18°21	T 24
W25	12 9 1	4° 8'21	20°30	20°59	17°42	15°37	11°35	20°54	11°36	1°43	8° 1	10°25	9°20	11° 7	18°19	W25
T 26	12 12 57	5° 7'49	5 米 5	21°17	18°40	16°23	11°49	21° 1	11°38	1°44	8° 0	10°R26	9°17	11°14	18°16	T 26
F 27	12 16 54	6° 7'15	20° 1	21°27	19°39	17° 9	12° 3	21° 9	11°41	1°46	8° 0	10°26	9°13	11°20	18°14	F 27
S 28	12 20 50	7° 6'40	5 Υ 12	21°R30	20°38	17°54	12°16	21°16	11°43	1°47	7°59	10°24	9°10	11°27	18°11	S 28
S 29	12 24 47	8° 6'02	20°27	21°25	21°37	18°40	12°30	21°24	11°45	1°48	7°58	10°21	9° 7	11°34	18° 8	S 29
M30	12 28 43	9° 5'22	5 8 36	21°12	22°37	19°26	12°44	21°31	11°48	1°49	7°58	10°17	9° 4	11°40	18° 5	M30
T 31	12 32 40	10 ° 4'41	20830	20 Y 53	23≈37	20 Υ 11	12) 58	21 Y 39	11≈50	1≈50	7 .₹ 57	10 M 13	9 m) 1	11 ≏ 47	18M 2	T 31

Day	0	D	ğ	·	ď	4	ħ)Å(卉	В	ß	U	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl	decl	decl lat
S 1 M 2	7 s45 7 22	2n13 2s47 6 47 3 51	5 53 1 13		1 s48 0 s44 1 29 0 43		5 1 2 18	18 s12 0 s36 18 11 0 36	19 34 0 21	9 s 38 12 n 9 9 38 12 10	7 37		1 s 8 1 1 10 1	15 46 1 43
T 3 W 4 T 5	6 36	10 52 4 38 14 13 5 8 16 39 5 18	4 7 0 50		1 10 0 42 0 51 0 42 0 32 0 41		5 3 2 18 5 6 2 17 5 9 2 17		19 33 0 21	9 38 12 10 9 38 12 10 9 37 12 11	7 37	7 39	1 12 1 1 14 1 1 16 1	15 45 1 44
F 6 S 7		18 6 5 10 18 31 4 47	1 25 0 20	6 15 46 4 5	0 13 0 41 0n 6 0 40		5 11 2 17 5 14 2 17	18 7 0 37	19 32 0 21	9 37 12 11 9 37 12 11	7 37	7 43		15 43 1 45
S 8 M 9 T 10	-	17 58 4 9 16 32 3 20 14 21 2 22	0 30 0 10 0n25 0 4 1 19 0n 3	4 15 40 3 50	0 25 0 39 0 44 0 39 1 3 0 38		5 17 2 17 5 20 2 17 5 22 2 17	18 5 0 37	19 31 0 21	9 36 12 12 9 36 12 12 9 36 12 12	7 37	7 45		15 42 1 46 15 42 1 46 15 41 1 47
W11 T 12 F 13	3 53 3 29 3 6	11 33 1 19 8 17 0 13 4 43 0n53	2 12 0 20 3 5 0 33 3 56 0 43	3 15 27 3 28	1 22 0 38 1 41 0 37 2 0 0 36	9 18 0 54 9 13 0 54 9 7 0 54	5 25 2 17 5 28 2 16 5 30 2 16	18 3 0 37	19 30 0 21	9 35 12 12 9 35 12 13 9 35 12 13	7 36	7 49	1 27 1 1 29 1 1 31 1	15 40 1 48
S 14 S 15 M16	2 42 2 18	0 59 1 56 2 s 47 2 5 4	4 46 0 59 5 34 1 13	2 15 9 3 6	2 19 0 36 2 37 0 35 2 56 0 35	8 57 0 54	5 33 2 16 5 36 2 16 5 39 2 16	18 1 0 37		9 34 12 13 9 34 12 14	7 37	7 52	1 33 1	15 37 1 49
T 17 W18	1 55 1 31 1 7	6 25 3 44 9 50 4 25 12 51 4 55	6 20 1 2: 7 4 1 3: 7 45 1 50	8 14 55 2 52 0 14 48 2 45	3 15 0 34 3 33 0 33	8 46 0 55 8 41 0 55	5 42 2 16 5 44 2 16	17 59 0 37 17 59 0 37	19 28 0 21 19 28 0 21	9 34 12 14 9 33 12 14 9 33 12 15	7 38 7 39	7 55 7 56	1 39 1 1 41 1	15 34 1 51
T 19 F 20 S 21	0 20	15 22 5 12 17 15 5 15 18 20 5 4	8 23 2 1 8 58 2 1 9 30 2 20		3 52 0 33 4 11 0 32 4 29 0 31	8 36 0 55 8 31 0 55 8 25 0 55	5 50 2 16	17 58 0 37 17 57 0 37 17 56 0 37		9 33 12 15 9 32 12 15 9 32 12 16	7 41	7 58	1 42 1 1 44 1 1 46 1	15 32 1 52
S 22 M23	0 51		10 23 2 40	6 14 2 2 10	4 47 0 31 5 6 0 30		5 58 2 15		19 26 0 21	9 32 12 16 9 31 12 16	7 41	8 2		15 29 1 53
T 24 W25 T 26	1 39 2 2	12 57 1 48 9 11 0 29	11 14 3 10	3 13 41 1 56 0 13 30 1 50	5 24 0 30 5 42 0 29 6 0 0 28	8 4 0 55 7 59 0 56	6 7 2 15	17 54 0 37 17 53 0 37	19 26 0 21 19 26 0 21	9 31 12 17 9 31 12 17 9 30 12 17	7 40 7 39	8 4 8 5	1 54 1 1 56 1	15 28 1 54 15 27 1 54 15 26 1 54
F 27 S 28	2 26 2 49	0n 3 2 12	11 23 3 13 11 27 3 19	9 13 5 1 37	6 19 0 28 6 37 0 27	7 54 0 56 7 49 0 56	6 12 2 15	17 52 0 37	19 25 0 21 19 25 0 21	9 30 12 17 9 29 12 18	7 40	8 8		15 24 1 55
S 29 M30 T 31	3 13 3 36 3n59	9 20 4 18	11 28 3 2 11 24 3 2 11n16 3n2	2 12 39 1 24	6 54 0 26 7 12 0 26 7n30 0s25	7 39 0 56	6 18 2 15	17 51 0 37	19 25 0 21 19 24 0 21 19 s24 0 n21	9 29 12 18 9 29 12 18 9 s28 12n19	7 43	-		15 22 1 56 15 21 1 56 15 s20 1n57

Julian Day Number = 2450873.5, Delta T = 63.06 sec Ecliptic obliquity = $23^{\circ}26'14$, Nutation = - $0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}42'53$, Lahiri = $23^{\circ}49'53$

APRIL 1998 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(卉	Р	n	Ω	Ç	Ŷ,	Day
W 1	12 36 36	11 ° 3'56	5 I 1	20°R28	24≈38	20 Y 57	13) (11	21 Y 46	11≈52	1≈51	7°R57	10°R 9	8 m) 58	11 ≙ 54	17°R59	W 1
T 2	12 40 33	12° 3'10	19° 6	19 Y 57	25°39	21°42	13°25	21°54	11°54	1°53	7 .₹ 56	10 m) 6	8°54	12° 0	17 M .56	T 2
F 3	12 44 30	13° 2'21	29543	19°22	26°40	22°27	13°38	22° 1	11°56	1°54	7°55	10° 4	8°51	12° 7	17°53	F 3
S 4	12 48 26	14° 1'30	15°52	18°42	27°41	23°13	13°52	22° 9	11°58	1°55	7°54	10°D 4	8°48	12°14	17°50	S 4
S 5	12 52 23	15° 0'37	28°38	17°58	28°43	23°58	14° 5	22°16	12° 1	1°56	7°54	10° 4	8°45	12°20	17°47	S 5
M 6	12 56 19	15°59'41	11 0 5	17°13	29°45	24°43	14°19	22°24	12° 2	1°56	7°53	10° 6	8°42	12°27	17°43	M 6
T 7	13 0 16	16°58'43	23°16	16°26	0) 48	25°28	14°32	22°32	12° 4	1°57	7°52	10° 8	8°39	12°34	17°40	T 7
W 8	13 4 12	17°57'43	5 m)16	15°38	1°50	26°13	14°45	22°39	12° 6	1°58	7°51	10°R 9	8°35	12°40	17°36	W 8
T 9	13 8 9	18°56'40	17° 9	14°51	2°53	26°58	14°58	22°47	12° 8	1°59	7°50	10° 9	8°32	12°47	17°33	T 9
F 10	13 12 5	19°55'36	28°59	14° 5	3°57	27°43	15°12	22°54	12°10	2° 0	7°49	10° 7	8°29	12°54	17°29	F 10
S 11	13 16 2	20°54'29	10 ≙ 47	13°21	5° 0	28°28	15°25	23° 2	12°12	2° 1	7°48	10° 3	8°26	13° 0	17°25	S 11
S 12	13 19 58	21°53'20	22°37	12°40	6° 4	29°13	15°38	23° 9	12°14	2° 1	7°47	9°57	8°23	13° 7	17°22	S 12
M13	13 23 55	22°52'09	4 M .30	12° 3	7° 8	29°58	15°51	23°17	12°15	2° 2	7°46	9°50	8°19	13°14	17°18	M13
T 14	13 27 52	23°50'56	16°28	11°29	8°12	0 8 43	16° 4	23°25	12°17	2° 3	7°45	9°42	8°16	13°20	17°14	T 14
W15	13 31 48	24°49'42	28°33	11° 0	9°16	1°28	16°16	23°32	12°18	2° 4	7°44	9°33	8°13	13°27	17°10	W15
T 16	13 35 45	25°48'25	10 ∡ 746	10°35	10°21	2°12	16°29	23°40	12°20	2° 4	7°43	9°25	8°10	13°34	17° 6	T 16
F 17	13 39 41	26°47'07	23° 9	10°16	11°26	2°57	16°42	23°47	12°22	2° 5	7°42	9°19	8° 7	13°40	17° 2	F 17
S 18	13 43 38	27°45'47	5 る 46	10° 1	12°31	3°42	16°55	23°55	12°23	2° 5	7°41	9°15	8° 4	13°47	16°58	S 18
S 19	13 47 34	28°44'26	18°39	9°52	13°36	4°26	17° 7	24° 3	12°24	2° 6	7°40	9°12	8° 0	13°54	16°54	S 19
M20	13 51 31	29°43'03	1≈50	9°D48	14°41	5°11	17°20	24°10	12°26	2° 6	7°39	9°D12	7°57	14° 0	16°49	M20
T 21	13 55 27	0841'38	15°24	9°49	15°47	5°55	17°32	24°18	12°27	2° 7	7°37	9°12	7°54	14° 7	16°45	T 21
W22	13 59 24	1°40'11	29°21	9°55	16°53	6°39	17°44	24°25	12°28	2° 7	7°36	9°13	7°51	14°14	16°41	W22
T 23	14 3 21	2°38'43	13) (43	10° 6	17°58	7°24	17°57	24°33	12°30	2° 8	7°35	9°R14	7°48	14°20	16°37	T 23
F 24	14 7 17	3°37'13	28°27	10°21	19° 5	8° 8	18° 9	24°40	12°31	2° 8	7°34	9°12	7°44	14°27	16°32	F 24
S 25	14 11 14	4°35'41	13 Y 28	10°42	20°11	8°52	18°21	24°48	12°32	2° 8	7°32	9° 8	7°41	14°34	16°28	S 25
S 26	14 15 10	5°34'08	28°38	11° 7	21°17	9°37	18°33	24°56	12°33	2° 9	7°31	9° 2	7°38	14°40	16°23	S 26
M27	14 19 7	6°32'33	13 8 49	11°36	22°24	10°21	18°45	25° 3	12°34	2° 9	7°30	8°54	7°35	14°47	16°19	M27
T 28	14 23 3	7°30'56	28°49	12° 9	23°30	11° 5	18°57	25°11	12°35	2° 9	7°28	8°45	7°32	14°54	16°14	T 28
W29	14 27 0	8°29'17	13 Ⅱ 29	12°46	24°37	11°49	19° 9	25°18	12°36	2° 9	7°27	8°36	7°29	15° 0	16°10	W29
T 30	14 30 56	9 8 27'37	27 Ⅱ 42	13 Y 27	25) (44	12 8 33	19 米 21	25 Y 26	12≈37	2≈ 9	7 . ₹26	8 m 29	7 m 25	15 ♀ 7	16M 5	T 30

Day	0	D	ğ		Ŷ		♂	2	+	ħ	<u></u>)į	β(4	(Р	ß	U	Ç	ķ	
	decl	decl lat	decl	lat	decl	lat dec	l lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
W 1	4n23	16n 1 5s1	2 11n 4	3n19	12s12	1n11 7n4	8 0s24	7 s 2 8	0 s 5 6	6n24	2s15	17 s49	0s37	19s24	0n21	9 s 28 12 n 19	7n46	8n13	2s 7	15 s 19	1n57
T 2	4 46	17 51 5	10 49	3 15	11 57	1 5 8	5 0 24	7 23	0 56	6 27	2 15	17 49	0 37	19 24	0 21	9 28 12 19	7 47	8 14	2 9	15 17	1 58
F 3	5 9	18 35 4 4	10 30	3 9	11 42	0 59 8 2	3 0 23	7 18	0 56	6 29	2 15	17 48	0 37	19 23	0 21	9 27 12 19	7 48	8 15	2 11	15 16	1 58
S 4	5 32	18 17 4 1	10 8	3 2	11 27	0 53 8 4	0 0 22	7 13	0 57	6 32	2 15	17 48	0 37	19 23	0 21	9 27 12 20	7 48	8 16	2 13	15 15	1 59
S 5	5 55	17 2 3 2	9 43	2 53	11 11	0 47 8 5	8 0 22	7 8	0 57	6 35	2 15	17 47	0 37	19 23	0 21	9 26 12 20	7 47	8 17	2 15	15 13	1 59
M 6	6 18	15 0 2 3	9 16	2 42	10 55	0 41 9 1	5 0 21	7 3	0 57	6 38	2 15	17 47	0 37	19 23	0 21	9 26 12 20	7 47	8 19	2 17	15 12	2 0
T 7	6 40	12 20 1 3	8 46	2 30	10 38	0 36 9 3	2 0 21	6 58	0 57	6 41	2 15	17 46	0 37	19 23	0 21	9 26 12 20	7 46	8 20	2 19	15 11	2 0
W 8	7 3	9 10 0 2	8 16	2 17	10 21	0 30 9 4	9 0 20	6 53	0 57	6 44	2 15	17 46	0 37	19 22	0 21	9 25 12 21	7 46	8 21	2 21	15 9	2 1
T 9	7 25	5 39 0n3	7 45	2 3	10 4	0 24 10	6 0 19	6 48	0 57	6 46	2 15	17 45	0 37	19 22	0 21	9 25 12 21	7 46	8 22	2 23	15 8	2 1
F 10	7 47	1 57 1 4	7 13	1 48	9 46	0 19 10 2	2 0 19	6 43	0 57	6 49	2 15	17 45	0 38	19 22	0 21	9 25 12 21	7 47	8 23	2 24	15 6	2 2
S 11	8 10	1 s50 2 3	6 42	1 33	9 28	0 14 10 3	9 0 18	6 38	0 58	6 52	2 15	17 44	0 38	19 22	0 21	9 24 12 21	7 48	8 24	2 26	15 5	2 2
S 12	8 32	5 33 3 3	6 11	1 16	9 9	0 8 10 5	6 0 17		0 58	6 55	2 15	17 44	0 38	19 22	0 21	9 24 12 22		8 26	2 28		2 2
M13	8 54	9 4 4 1	1 1	1 0	8 51	0 3 11 1	2 0 17	6 28	0 58	6 58	2 15	17 43	0 38	19 22	0 21	9 23 12 22	7 53	8 27	2 30	15 2	2 3
T 14				0 43	8 31	0s 2 11 2			0 58	7 0				-	0 21	9 23 12 22	7 56	8 28	2 32		2 3
W15			4 46	0 27	8 12	0 7 11 4		6 19	0 58	7 3					0 21	9 23 12 22	7 59	8 29		14 59	2 4
T 16	9 58	16 58 5		0 10	7 52	0 12 12	0 15	6 14	0 58	7 6				19 21	0 21	9 22 12 23	8 2	8 30		14 57	2 4
F 17				0s 6	7 32	0 16 12 1		6 9	0 58	7 9		17 42	0 38		0 21	9 22 12 23		8 32		14 56	2 5
S 18	10 41	18 43 4 3	5 3 39	0 21	7 11	0 21 12 3	2 0 13	6 4	0 59	7 12	2 15	17 41	0 38	19 21	0 21	9 22 12 23	8 6	8 33	2 40	14 54	2 5
S 19	11 2	18 12 3 5	3 21	0 36	6 51	0 26 12 4	8 0 13	5 59	0 59	7 14	2 15	17 41	0 38	19 21	0 21	9 21 12 23	8 7	8 34	2 42	14 53	2 5
M20	11 22	16 42 3	7 3 6	0 51	6 30		3 0 12		0 59	7 17		17 41	0 38	19 21	0 21	9 21 12 23	8 7	8 35		14 51	2 6
T 21	11 43	14 14 2	5 2 54	1 5	6 8	0 34 13 1	9 0 11	5 50	0 59	7 20	2 15	17 40	0 38	19 21	0 21	9 21 12 23	8 7	8 36		14 49	2 6
W22	12 3	10 52 0 5		1 18	5 47	0 39 13 3		5 45	0 59	7 23		17 40			0 21	9 20 12 24		8 38		14 48	2 7
T 23	12 23	6 47 0s2		1 30	5 25	0 43 13 4	9 0 10	-	0 59	7 25		17 40			0 21	9 20 12 24	8 7	8 39		14 46	2 7
F 24	12 43	2 10 1 4	-	1 42	5 3	0 47 14	4 0 9	0 00	1 0	7 28					0 21	9 20 12 24	8 7	8 40		14 45	2 7
S 25	13 3	2n39 2 5	3 2 30	1 53	4 40	0 51 14 1	9 0 9	5 31	1 0	7 31	2 15	17 39	0 38	19 20	0 21	9 19 12 24	8 9	8 41	2 53	14 43	2 8
S 26	13 23	7 21 3 5		2 3	4 18	0 55 14 3		5 27	1 0	7 33		17 39		19 20	0 21	9 19 12 24	8 11	8 42		14 41	2 8
M27				2 12	3 55	0 58 14 4		5 22	1 0	7 36		17 39	0 38		0 21	9 18 12 24	8 14	8 43		14 40	2 9
T 28	14 1		2 39	2 21	3 32	-	3 0 7	5 18	1 0	7 39		17 38			0 21	9 18 12 25	8 17	8 45		14 38	2 9
W29				2 28	3 8	1 6 15 1			1 0	7 41		17 38			0 21	9 18 12 25	8 20	8 46		14 36	2 9
T 30	14n39	18n37 4s4	3 2n55	2 s 3 5	2 s45	1s 9 15n3	1 0s 6	5s 9	1 s 1	7n44	2s15	17 s38	0s38	19 s20	0n21	9s17 12n25	8n23	8n47	3 s 3	14s35	2n10

Julian Day Number = 2450904.5, Delta T = 63.11 sec Ecliptic obliquity = $23^{\circ}26'14$, Nutation = -0°00'07, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}42'57$, Lahiri = $23^{\circ}49'57$

MAY 1998 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(并	В	ស	ນ	Ç	Ŗ	Day
F 1	14 34 53	10825'54	119527	14 Y 12	26) 51	13817	19) 32	25 Y 33	12≈38	2≈10	7°R24	8°R23	7 m 22	15 ≏ 14	16°R 1	F 1
S 2	14 38 50	11°24'09	24°42	15° 0	27°59	14° 1	19°44	25°40	12°39	2°10	7 . ₹23	8 m 20	7°19	15°20	15 M .56	S 2
S 3	14 42 46	12°22'22	7 Ω 31	15°52	29° 6	14°45	19°55	25°48	12°39	2°10	7°21	8°D18	7°16	15°27	15°52	S 3
M 4	14 46 43	13°20'33	19°58	16°47	0 Υ 13	15°28	20° 7	25°55	12°40	2°R10	7°20	8°18	7°13	15°34	15°47	M 4
T 5	14 50 39	14°18'42	2 Mp 7	17°45	1°21	16°12	20°18	26° 3	12°41	2°10	7°18	8°R19	7°10	15°40	15°43	T 5
W 6	14 54 36	15°16'49	14° 5	18°45	2°29	16°56	20°29	26°10	12°41	2°10	7°17	8°19	7° 6	15°47	15°38	W 6
T 7	14 58 32	16°14'54	25°55	19°49	3°36	17°40	20°40	26°17	12°42	2°10	7°15	8°17	7° 3	15°54	15°34	T 7
F 8	15 2 29	17°12'58	7 ≏ 43	20°56	4°44	18°23	20°51	26°25	12°42	2°10	7°14	8°14	7° 0	16° 0	15°29	F 8
S 9	15 6 25	18°10'59	19°31	22° 5	5°52	19° 7	21° 2	26°32	12°43	2° 9	7°12	8° 7	6°57	16° 7	15°25	S 9
S 10	15 10 22	19° 8'59	1 m 24	23°17	7° 0	19°50	21°13	26°39	12°43	2° 9	7°11	7°58	6°54	16°14	15°20	S 10
M11	15 14 19	20° 6'57	13°24	24°31	8° 9	20°34	21°23	26°46	12°44	2° 9	7° 9	7°47	6°50	16°20	15°15	M11
T 12	15 18 15	21° 4'53	25°31	25°48	9°17	21°17	21°34	26°53	12°44	2° 9	7° 8	7°34	6°47	16°27	15°11	T 12
W13	15 22 12	22° 2'48	7 √ 147	27° 7	10°25	22° 0	21°44	27° 1	12°44	2° 9	7° 6	7°21	6°44	16°34	15° 6	W13
T 14	15 26 8	23° 0'42	20°13	28°28	11°34	22°43	21°55	27° 8	12°44	2° 8	7° 5	7° 9	6°41	16°40	15° 2	T 14
F 15	15 30 5	23°58'34	2 궁 50	29°52	12°42	23°27	22° 5	27°15	12°44	2° 8	7° 3	6°59	6°38	16°47	14°57	F 15
S 16	15 34 1	24°56'25	15°37	1819	13°51	24°10	22°15	27°22	12°45	2° 8	7° 2	6°51	6°35	16°54	14°53	S 16
S 17	15 37 58	25°54'14	28°38	2°47	15° 0	24°53	22°25	27°29	12°45	2° 7	7° 0	6°46	6°31	17° 0	14°49	S 17
M18	15 41 54	26°52'03	11 ≈ 53	4°18	16° 9	25°36	22°35	27°36	12°R45	2° 7	6°58	6°44	6°28	17° 7	14°44	M18
T 19	15 45 51	27°49'50	25°24	5°51	17°18	26°19	22°45	27°43	12°45	2° 6	6°57	6°D43	6°25	17°14	14°40	T 19
W20	15 49 48	28°47'36	9) (13	7°26	18°27	27° 2	22°55	27°50	12°44	2° 6	6°55	6°R43	6°22	17°20	14°36	W20
T 21	15 53 44	29°45'21	23°21	9° 3	19°36	27°45	23° 4	27°57	12°44	2° 5	6°53	6°43	6°19	17°27	14°31	T 21
F 22	15 57 41	0∏43'05	7 Υ 48	10°43	20°45	28°28	23°14	28° 3	12°44	2° 5	6°52	6°40	6°16	17°34	14°27	F 22
S 23	16 1 37	1°40'48	22°31	12°25	21°54	29°11	23°23	28°10	12°44	2° 4	6°50	6°35	6°12	17°41	14°23	S 23
S 24	16 5 34	2°38'29	7 8 23	14° 9	23° 4	29°53	23°32	28°17	12°44	2° 4	6°49	6°28	6° 9	17°47	14°19	S 24
M25	16 9 30	3°36'10	22°19	15°55	24°13	0Д36	23°41	28°24	12°43	2° 3	6°47	6°18	6° 6	17°54	14°15	M25
T 26	16 13 27	4°33'50	7 I 7	17°43	25°23	1°19	23°50	28°30	12°43	2° 2	6°45	6° 7	6° 3	18° 1	14°10	T 26
W27	16 17 23	5°31'28	21°41	19°34	26°32	2° 1	23°59	28°37	12°42	2° 2	6°44	5°55	6° 0	18° 7	14° 6	W27
T 28	16 21 20	6°29'05	5953	21°27	27°42	2°44	24° 8	28°44	12°42	2° 1	6°42	5°45	5°56	18°14	14° 2	T 28
F 29	16 25 17	7°26'41	19°38	23°22	28°52	3°26	24°17	28°50	12°41	2° 0	6°40	5°37	5°53	18°21	13°59	F 29
S 30	16 29 13	8°24'15	2 Ω 56	25°19	08 1	4° 9	24°25	28°57	12°41	1°59	6°39	5°32	5°50	18°27	13°55	S 30
S 31	16 33 10	9∏21'48	15 Ω 48	27 8 18	1811	4 Ⅱ 51	24) 33	29 Y 3	12 ≈ 40	1≈59	6 ₮ 37	5 m 29	5 M)47	18 ≏ 34	13 M .51	S 31

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F 1 S 2		18n41 4s16 17 43 3 31	3n 7 2s42 3 20 2 47	2 s 2 1 1 s 1 2 1 5 n 4 1 5 8 1 1 6 1 5 5		5s 5 1s 1 5 0 1 1		17 s38 0 s38 17 37 0 38		9s17 12n25 9 17 12 25			5 14s33 2n10 7 14 32 2 10
S 3 M 4 T 5 W 6 T 7 F 8	15 33 15 51 16 8 16 25 16 42 16 58	15 52 2 37 13 18 1 36 10 12 0 33 6 44 0n31 3 2 1 32 0s46 2 30	3 53 2 56	1 34 1 19 16 1 1 10 1 22 16 2 0 45 1 25 16 3 0 21 1 27 16 3 0n 3 1 30 17 0 28 1 33 17 1	6 0 3 9 0 2 2 0 2 5 0 1	4 56 1 1 4 52 1 1 4 47 1 2 4 43 1 2 4 39 1 2 4 35 1 2	7 55 2 15	17 37 0 38 17 37 0 38 17 37 0 38 17 37 0 39	19 20 0 21 19 20 0 21 19 20 0 21	9 16 12 25 9 16 12 25 9 16 12 25 9 16 12 25 9 15 12 26 9 15 12 26	8 27 8 8 27 8 8 27 8 8 28 8	52 3 1 53 3 1 54 3 1 55 3 1	8 14 30 2 11 0 14 28 2 11 2 14 27 2 11 4 14 25 2 12 6 14 23 2 12 8 14 22 2 12
S 9 S 10	17 15 17 31	4 33 3 21 8 10 4 3	5 44 3 5		0 0n 0	4 31 1 2 4 27 1 3	8 8 2 16		19 20 0 21	9 15 12 26 9 14 12 26	8 31 8	58 3 2	0 14 20 2 13 2 14 19 2 13
M11 T 12 W13 T 14	18 2	14 22 4 55 16 39 5 1	7 7 3 3 7 37 3 1	1 42 1 40 17 5 2 7 1 42 18 2 32 1 44 18 1 2 57 1 46 18 3	7 0 2 9 0 3	4 23 1 3 4 19 1 3 4 15 1 3 4 11 1 3	8 18 2 16	17 36 0 39 17 36 0 39 17 36 0 39 17 36 0 39	19 20 0 21 19 20 0 21	9 14 12 26 9 14 12 26 9 14 12 26 9 13 12 26	8 39 9 8 44 9 8 48 9 8 53 9	1 3 2 2 3 2	4 14 17 2 13 6 14 15 2 14 8 14 14 2 14 0 14 12 2 14
F 15 S 16	19 0	18 37 3 56	9 14 2 52	3 22 1 48 18 4 3 47 1 49 18 5			8 25 2 16		19 20 0 21	9 13 12 26 9 13 12 26	8 57 9 9 0 9	6 3 3	1 14 11 2 15 3 14 9 2 15
S 17 M18 T 19 W20 T 21 F 22 S 23	19 14 19 27 19 40 19 53 20 6 20 18 20 30	15 11 2 8 12 7 1 0 8 19 0s13 3 58 1 27 0n42 2 36	10 24 2 43 11 0 2 37 11 36 2 31	5 2 1 54 19 2 5 27 1 55 19 3 5 52 1 56 19 4	7 0 7 7 0 8	3 56 1 4 3 52 1 5 3 48 1 5 3 45 1 5 3 41 1 5	8 30 2 16 8 32 2 16 8 34 2 17 8 37 2 17 8 39 2 17	17 36 0 39 17 36 0 39 17 36 0 39 17 37 0 39 17 37 0 39	19 20 0 21 19 20 0 21 19 21 0 21	9 13 12 26 9 12 12 26 9 12 12 26 9 12 12 26 9 12 12 26 9 11 12 26 9 11 12 26	9 3 9 9 4 9	8 3 3 9 3 3 11 3 4 12 3 4 13 3 4	5 14 8 2 15 7 14 6 2 15 9 14 4 2 16 1 14 3 2 16 3 14 1 2 16 5 14 0 2 16 7 13 58 2 17
S 24 M25 T 26 W27 T 28 F 29	20 41	9 49 4 23 13 38 4 52 16 33 5 1 18 22 4 49 18 58 4 21 18 25 3 37	14 8 2 3 14 46 1 54 15 25 1 46 16 4 1 37 16 43 1 27 17 22 1 17	7 7 1 59 20 1	7 0 10 7 0 10 6 0 11 5 0 12 4 0 12 3 0 13	3 34 1 6 3 31 1 6 3 27 1 6 3 24 1 6 3 21 1 7 3 18 1 7	8 44 2 17 8 46 2 17 8 48 2 17 8 50 2 17 8 53 2 18 8 55 2 18	17 37 0 39 17 38 0 39	19 21 0 21 19 21 0 21 19 21 0 21 19 21 0 21 19 22 0 21 19 22 0 21 19 22 0 21 19 22 0 21	9 11 12 26 9 11 12 26 9 11 12 26 9 10 12 26 9 10 12 25 9 10 12 25 9 10 12 25	9 8 9 9 12 9 9 16 9 9 20 9 9 24 9 9 27 9	15 3 4 16 3 5 18 3 5 19 3 5 20 3 5 21 3 5	9 13 57 2 17 1 13 56 2 17 1 13 56 2 17 3 13 54 2 17 5 13 53 2 18 6 13 51 2 18 8 13 50 2 18 0 13 49 2 18

 $\label{eq:Julian Day Number = 2450934.5, Delta T = 63.15 sec} \\ Ecliptic obliquity = 23°26'14, Nutation = -0°00'08, out-of-bounds declination in red$

JUNE 1998 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)/j(¥	Р	n	u	Ç	, k	Day
M 1	16 37 6	10 Ⅱ 19'20	28Ω17	29819	2 8 21	5 Ⅱ 34	24) (41	29Υ 9	12°R40	1°R58	6°R35	5°R28	5 m) 44	18 ≏ 41	13°R47	M 1
T 2	16 41 3	11°16'50	10 m)28	1 Ⅱ 22	3°31	6°16	24°49	29°16	12≈39	1≈57	6 ₹ 34	5 m 28	5°41	18°47	13 M .43	T 2
W 3	16 44 59	12°14'19	22°27	3°26	4°41	6°58	24°57	29°22	12°38	1°56	6°32	5°28	5°37	18°54	13°40	W 3
T 4	16 48 56	13°11'47	4 ≏ 18	5°33	5°51	7°40	25° 5	29°28	12°37	1°55	6°31	5°26	5°34	19° 1	13°36	T 4
F 5	16 52 52	14° 9'13	16° 7	7°40	7° 1	8°23	25°13	29°34	12°36	1°54	6°29	5°23	5°31	19° 7	13°33	F 5
S 6	16 56 49	15° 6'39	27°58	9°50	8°11	9° 5	25°20	29°40	12°36	1°53	6°27	5°17	5°28	19°14	13°29	S 6
S 7	17 0 46	16° 4'03	9 M 56	12° 0	9°21	9°47	25°28	29°47	12°35	1°52	6°26	5° 8	5°25	19°21	13°26	S 7
M 8	17 4 42	17° 1'26	22° 3	14°11	10°32	10°29	25°35	29°53	12°34	1°51	6°24	4°57	5°21	19°27	13°23	M 8
T 9	17 8 39	17°58'48	4 ₹ 21	16°23	11°42	11°11	25°42	29°58	12°33	1°50	6°23	4°45	5°18	19°34	13°20	T 9
W10	17 12 35	18°56'10	16°51	18°35	12°52	11°53	25°49	0 8 4	12°31	1°49	6°21	4°32	5°15	19°41	13°16	W10
T 11	17 16 32	19°53'30	29°33	20°47	14° 3	12°34	25°55	0°10	12°30	1°48	6°19	4°20	5°12	19°47	13°13	T 11
F 12	17 20 28	20°50'50	12 る 28	22°58	15°13	13°16	26° 2	0°16	12°29	1°47	6°18	4°10	5° 9	19°54	13°10	F 12
S 13	17 24 25	21°48'10	25°34	25°10	16°24	13°58	26° 8	0°22	12°28	1°46	6°16	4° 2	5° 6	20° 1	13° 8	S 13
S 14	17 28 21	22°45'28	8≈51	27°21	17°34	14°40	26°15	0°27	12°27	1°45	6°15	3°58	5° 2	20° 8	13° 5	S 14
M15	17 32 18	23°42'47	22°20	29°30	18°45	15°21	26°21	0°33	12°25	1°44	6°13	3°55	4°59	20°14	13° 2	M15
T 16	17 36 15	24°40'04	5) 59	1939	19°56	16° 3	26°27	0°38	12°24	1°42	6°12	3°D55	4°56	20°21	13° 0	T 16
W17	17 40 11	25°37'22	19°51	3°46	21° 6	16°44	26°32	0°44	12°23	1°41	6°10	3°R55	4°53	20°28	12°57	W17
T 18	17 44 8	26°34'39	3 ℃ 54	5°51	22°17	17°26	26°38	0°49	12°21	1°40	6° 9	3°55	4°50	20°34	12°55	T 18
F 19	17 48 4	27°31'56	18° 8	7°55	23°28	18° 7	26°43	0°55	12°20	1°39	6° 7	3°54	4°47	20°41	12°52	F 19
S 20	17 52 1	28°29'13	2832	9°57	24°39	18°49	26°49	1° 0	12°18	1°37	6° 6	3°50	4°43	20°48	12°50	S 20
S 21	17 55 57	29°26'29	17° 2	11°57	25°50	19°30	26°54	1° 5	12°17	1°36	6° 4	3°44	4°40	20°54	12°48	S 21
M22	17 59 54	09523'46	1 II 33	13°55	27° 1	20°11	26°59	1°10	12°15	1°35	6° 3	3°35	4°37	21° 1	12°46	M22
T 23	18 3 50	1°21'02	15°58	15°51	28°12	20°53	27° 4	1°15	12°14	1°34	6° 1	3°26	4°34	21° 8	12°44	T 23
W24	18 7 47	2°18'18	09୍ତ12	17°45	29°23	21°34	27° 8	1°20	12°12	1°32	6° 0	3°16	4°31	21°14	12°42	W24
T 25	18 11 44	3°15'33	14° 9	19°37	0 Ⅱ 34	22°15	27°13	1°25	12°11	1°31	5°58	3° 8	4°27	21°21	12°40	T 25
F 26	18 15 40	4°12'48	27°44	21°26	1°45	22°56	27°17	1°30	12° 9	1°29	5°57	3° 1	4°24	21°28	12°38	F 26
S 27	18 19 37	5°10'03	10 Ω 57	23°13	2°57	23°37	27°21	1°35	12° 7	1°28	5°56	2°57	4°21	21°34	12°37	S 27
S 28	18 23 33	6° 7'17	23°46	24°59	4° 8	24°18	27°25	1°39	12° 5	1°27	5°54	2°54	4°18	21°41	12°35	S 28
M29	18 27 30	7° 4'31	6 m 15	26°41	5°19	24°59	27°29	1°44	12° 4	1°25	5°53	2°D54	4°15	21°48	12°34	M29
T 30	18 31 26	895 1'44	18 m)27	289522	6 Ⅱ 30	25 Ⅱ 40	27) 32	1848	12≈ 2	1≈24	5 ₹ 52	2 m 55	4 Mp 12	21 ≏ 55	12MJ32	T 30

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M 1 T 2	22n 0 22 8		0s38 1 0n26 1	19n15 19 51	0s46 0 36	10n22 10 46		21n28 21 36	0n15 0 15	3s 9 3 6	1 s 8	9n 1 9 3		17 s38 17 39			0n21 0 21	9s10 9 9	12n25 12 25	9n30 9 30	9n25 9 26		13 s46 13 45	2n19 2 19
W 3	22 16		-	20 26	0 25			21 44	0 16		1 8	9 5		17 39		19 23	0 21	9 9		9 30	9 27		13 44	2 19
T 4	22 23		-	21 0	0 14	11 32		21 52	0 17	3 0	1 8	9 7		17 39		-	0 21	9 9		9 31	9 28		13 42	2 19
F 5 S 6	22 30 22 36		3 18 2 4 0 2		0 3 0n 7	11 55 12 18		21 59 22 6	0 17 0 18	2 57 2 54	1 9 1 9	9 9 9 11		17 39 17 40			0 21 0 21	9 9		9 32 9 35	9 29 9 30		13 41 13 40	2 19 2 20
S 7 M 8	22 43 22 48	-	4 33 2 4 53 2	-	0 18 0 28	12 41 13 4		22 13 22 20	0 18 0 19	2 52 2 49	1 9 1 9	9 13 9 15		17 40 17 40			0 21 0 21	9 9 9 9		9 38 9 42	9 32 9 33		13 39 13 38	2 20 2 20
T 9	22 54	16 5	5 1 2	23 22	0 38	13 26	2 1	22 26	0 20	2 47	1 10	9 17	2 19	17 41	0 40	19 24	0 21	9 9	12 24	9 46	9 34	4 19	13 37	2 20
W10			4 54 2	-	0 48			22 33	0 20	2 44	1 10	9 19		17 41	0 40	-	0 21	9 9		9 51	9 35		13 36	2 20
T 11 F 12			4 33 2 3 57 2		0 57	14 9		22 39	0 21	2 42	1 10	9 21		17 41		19 25	0 21		12 24	9 55	9 36		13 34	2 20
S 13				24 20	1 6 1 14	14 31 14 52		22 45 22 50	0 21 0 22	2 39 2 37	1 10 1 11	9 23 9 25		17 42 17 42		19 25 19 25	0 21 0 21	9 8 9 8	_	9 59 10 2	9 37 9 39		13 33 13 32	2 21 2 21
S 14	23 14			24 46	1 21	15 12		22 56	0 23	2 35	1 11	9 26		17 42		19 25	0 21	9 8			9 40		13 31	2 21
M15				24 54	1 28	15 33	1 55		0 23	2 33	1 11	9 28	2 20	17 43			0 21	9 8		-	9 41		13 31	2 21
T 16 W17	23 20	9 29 (5 18 1		25 0	1 34	15 53		23 6 23 11	0 24	2 30	1 12	9 30	2 21	17 43			0 21 0 21	9 8 9 8	_	-	9 42 9 43		13 30	2 21
T 18	23 22 23 24	-	1 24 2 2 32 2	25 3 25 3	1 40 1 44	16 13 16 32		23 15	0 24 0 25	2 28 2 26	1 12 1 12	9 32 9 33		17 44 17 44			0 21	98			9 43		13 29 13 28	2 21 2 21
F 19	23 25			25 0	1 48	16 51		23 20	0 26	2 25	1 12	9 35					0 21	9 8		-	9 46		13 27	2 21
S 20	23 26		4 20 2					23 24	0 26	2 23	1 13	9 37		17 45		19 27	0 21		12 22		9 47		13 26	2 22
S 21	23 26	12 16	4 51 2	24 48	1 54	17 28		23 28	0 27	2 21	1 13	9 38		17 45		19 27	0 21	9 8	12 21		9 48	4 43	13 26	2 22
M22			-	24 38	1 56	17 46		23 32	0 27	2 19	1 13	9 40				19 28	0 21	9 8		10 11	9 49		13 25	2 22
T 23			4 56 2		1 57	18 4		23 35	0 28	2 18	1 14	9 41					0 21	9 8		10 15	9 50		13 24	2 22
W24 T 25			4 31 2		1 57	18 21		23 39	0 28	2 16	1 14	9 43	2 22			-	0 21	9 8		10 18	9 51		13 23	2 22
F 26			3 50 2 2 57 2		1 57 1 56	18 37 18 53		23 42 23 44	0 29 0 30	2 15 2 13	1 14 1 14	9 44 9 46		17 47 17 48	0 40	19 29 19 29	0 21 0 21		12 20 12 20		9 52 9 54		13 23 13 22	2 22 2 22
S 27	23 22		1 55 2		1 54	19 9	1 37		0 30	2 13	1 14	9 47		17 48		19 29	0 21	9 8		10 24	9 55		13 22	2 22
S 28 M29 T 30	23 18 23 15 23n12	9 30 (0 49 2 0n18 2 1n23 2	22 35	1 51 1 48 1n45	19 24 19 39 19n53	1 34	23 50 23 52 23n54	0 31 0 31 0n32	2 10 2 9 2s 8	1 15	9 49 9 50 9n51	2 23	17 49 17 49 17 s50	0 40	19 30 19 30 19 s30	0 21 0 21 0n21	9 9	12 19	10 26 10 26 10n26	9 56 9 57 9n58	4 58	13 21 13 21 13 s20	2 22 2 22 2n23

 $\label{eq:Julian Day Number = 2450965.5, Delta\ T=63.20\ sec} \\ Ecliptic\ obliquity = 23°26'13, Nutation = -0°00'08, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 24°43'05, Lahiri = 23°50'06 \\$

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(1 4	Р	B	ಭ	Ç	o k	Day
W 1	18 35 23	8958'57	0 ჲ 27	0 Ω 1	7∏42	26Ⅲ21	27) 35	1 8 53	12°R 0	1°R22	5°R50	2 Mp 56	4MD 8	22 ♀ 1	12°R31	W 1
T 2	18 39 19	9°56'09	12°20	1°37	8°53	27° 2	27°39	1°57	11≈58	1≈21	5 √ 49	2°R56	4° 5	22° 8	12 M 30	T 2
F 3	18 43 16	10°53'21	24°11	3°11	10° 5	27°43	27°42	2° 1	11°56	1°19	5°48	2°55	4° 2	22°15	12°29	F 3
S 4	18 47 13	11°50'33	6M 5	4°42	11°16	28°23	27°44	2° 6	11°54	1°18	5°46	2°52	3°59	22°21	12°28	S 4
S 5	18 51 9	12°47'44	18° 6	6°12	12°28	29° 4	27°47	2°10	11°52	1°16	5°45	2°47	3°56	22°28	12°28	S 5
M 6	18 55 6	13°44'56	0 , 719	7°39	13°39	29°45	27°49	2°14	11°50	1°15	5°44	2°40	3°53	22°35	12°27	M 6
T 7	18 59 2	14°42'07	12°45	9° 4	14°51	09୍ଦ25	27°52	2°18	11°48	1°13	5°43	2°32	3°49	22°41	12°26	T 7
W 8	19 2 59	15°39'18	25°28	10°26	16° 3	1° 6	27°54	2°21	11°46	1°12	5°42	2°24	3°46	22°48	12°26	W 8
T 9	19 6 55	16°36'29	8 궁 26	11°47	17°14	1°46	27°56	2°25	11°44	1°10	5°40	2°17	3°43	22°55	12°25	T 9
F 10	19 10 52	17°33'40	21°41	13° 4	18°26	2°27	27°57	2°29	11°42	1° 9	5°39	2°10	3°40	23° 1	12°25	F 10
S 11	19 14 49	18°30'52	5≈ 9	14°19	19°38	3° 7	27°59	2°32	11°40	1° 7	5°38	2° 5	3°37	23° 8	12°25	S 11
S 12	19 18 45	19°28'03	18°50	15°32	20°50	3°48	28° 0	2°36	11°38	1° 5	5°37	2° 3	3°33	23°15	12°D25	S 12
M13	19 22 42	20°25'15	2) (41	16°42	22° 2	4°28	28° 1	2°39	11°35	1° 4	5°36	2°D 2	3°30	23°21	12°25	M13
T 14	19 26 38	21°22'27	16°40	17°50	23°14	5° 8	28° 2	2°43	11°33	1° 2	5°35	2° 3	3°27	23°28	12°25	T 14
W15	19 30 35	22°19'40	0 Υ 44	18°54	24°26	5°49	28° 3	2°46	11°31	1° 1	5°34	2° 4	3°24	23°35	12°25	W15
T 16	19 34 31	23°16'54	14°53	19°56	25°38	6°29	28° 3	2°49	11°29	0°59	5°33	2° 5	3°21	23°42	12°26	T 16
F 17	19 38 28	24°14'08	29° 5	20°55	26°50	7° 9	28° 3	2°52	11°27	0°57	5°32	2°R 5	3°18	23°48	12°26	F 17
S 18	19 42 24	25°11'23	13 8 17	21°51	28° 2	7°49	28°R 4	2°55	11°24	0°56	5°31	2° 4	3°14	23°55	12°27	S 18
S 19	19 46 21	26° 8'38	27°28	22°43	29°14	8°29	28° 4	2°58	11°22	0°54	5°30	2° 1	3°11	24° 2	12°27	S 19
M20	19 50 17	27° 5'55	11 II 34	23°33	09୍ଦ26	9° 9	28° 3	3° 1	11°20	0°53	5°30	1°57	3° 8	24° 8	12°28	M20
T 21	19 54 14	28° 3'12	25°33	24°19	1°38	9°49	28° 3	3° 3	11°17	0°51	5°29	1°52	3° 5	24°15	12°29	T 21
W22	19 58 11	29° 0'29	99520	25° 1	2°51	10°29	28° 2	3° 6	11°15	0°49	5°28	1°47	3° 2	24°22	12°30	W22
T 23	20 2 7	29°57'48	22°53	25°40	4° 3	11° 9	28° 1	3° 8	11°13	0°48	5°27	1°42	2°59	24°28	12°31	T 23
F 24	20 6 4	0 Ω 55'07	6 N 9	26°15	5°16	11°49	28° 0	3°11	11°10	0°46	5°26	1°39	2°55	24°35	12°32	F 24
S 25	20 10 0	1°52'26	19° 7	26°46	6°28	12°29	27°59	3°13	11° 8	0°44	5°26	1°37	2°52	24°42	12°34	S 25
S 26	20 13 57	2°49'46	1 M 48	27°12	7°40	13° 8	27°57	3°15	11° 6	0°43	5°25	1°D36	2°49	24°48	12°35	S 26
M27	20 17 53	3°47'07	14°12	27°34	8°53	13°48	27°56	3°17	11° 3	0°41	5°24	1°37	2°46	24°55	12°37	M27
T 28	20 21 50	4°44'28	26°22	27°52	10° 5	14°28	27°54	3°19	11° 1	0°40	5°24	1°38	2°43	25° 2	12°38	T 28
W29	20 25 47	5°41'49	8 ₾ 22	28° 5	11°18	15° 7	27°52	3°21	10°59	0°38	5°23	1°40	2°39	25° 9	12°40	W29
T 30	20 29 43	6°39'11	20°15	28°13	12°31	15°47	27°50	3°23	10°56	0°36	5°23	1°41	2°36	25°15	12°42	T 30
F 31	20 33 40	$7\Omega 36'34$	2M 6	28°R16	139543	16927	27) (47	3 8 25	10≈54	0≈35	5 ₹ 22	1°R42	2 m 33	25 ≏ 22	12 M .44	F 31

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W 1 T 2 F 3	23n 8 23 4 22 59		n23 21n47 16 21 21 0 20 54	1 35 20 21	1 s29 23n50 1 27 23 50 1 25 23 50	0 33		1 s16 1 16 1 16	9n53 9 54 9 55	2 24	17 s50 17 51 17 51	0 s40 0 40 0 40	19 31 0	21 9 9		10n26 10 26 10 26		5 4	13 s20 2n 13 19 2 13 19 2	23
S 4	22 55		35 20 26		1 23 24	0 34	2 4	1 17	9 56		17 52			/	-	10 20	-		13 19 2	-
S 5 M 6 T 7 W 8	22 44 22 38 22 31	15 12 5 17 19 5 18 39 4	3 18 59 43 18 29	1 10 21 8 1 2 21 19 0 54 21 29	1 21 24 1 18 24 1 16 24 1 1 14 24 1	0 35 0 35 0 36 0 36	2 3 2 2	1 17 1 17 1 18 1 18	-	2 25 2 25 2 25	17 53 17 53 17 54 17 54	0 40 0 40 0 41	19 32 0 19 33 0 19 33 0	21 9 9 21 9 10 21 9 10	12 17 12 16	10 31 10 34 10 37	10 5 10 6 10 7	5 11 5 13 5 15	13 18 2	23 23 23
T 9 F 10 S 11		18 23 3	9 17 59 21 17 28 20 16 58	0 36 21 47	1 11 24 1 1 9 24 1 1 6 24 1	0 37 0 37 0 38	2 1 2 1 2 1	1 18 1 19 1 19	10 3	2 26	17 55 17 56 17 56	0 41	19 33 0 19 34 0 19 34 0	21 9 10	12 16 12 15 12 15 12 15	10 42	10 10			23
T 14 W15 T 16 F 17		10 34 0: 6 28 1 2 0 2 2n36 3 7 4 4	11 16 27 s 4 15 56 19 15 25 30 14 55 32 14 25 21 13 55 55 13 26	0 7 22 11 0s 4 22 17 0 15 22 23 0 27 22 28 0 38 22 33	1 4 24 1 1 24 0 59 24 0 0 56 23 59 0 54 23 5 0 51 23 50 0 48 23 5	0 41 0 41	2 0 2 0 2 0 2 0 2 0 2 0	1 19 1 19 1 20 1 20 1 20 1 21 1 21	10 6	2 26 2 27 2 27	17 58 17 59 17 59 18 0	0 41 0 41 0 41 0 41	19 34 0 19 35 0 19 35 0 19 35 0 19 36 0 19 36 0 19 36 0	21 9 1 21 9 1 21 9 1 21 9 1 21 9 1	1 12 14	10 45 10 45 10 44 10 44 10 44	10 13 10 14 10 16 10 17 10 18	5 25 5 27 5 29 5 30 5 32	13 17 2 13 17 2	23 23 23 23 23 23
S 19 M20 T 21 W22 T 23 F 24 S 25	20 44 20 33 20 21 20 9	17 6 5 18 37 4 19 0 4 18 17 3 16 33 2		1 15 22 43 1 28 22 45 1 41 22 47 1 54 22 48 2 7 22 48	0 46 23 5. 0 43 23 5. 0 40 23 4. 0 38 23 4. 0 35 23 4. 0 32 23 3. 0 29 23 3.	0 43 0 43 0 44 0 44 0 45	2 1 2 2 2 2 2 3 2 4	1 21 1 22 1 22 1 22 1 23 1 23 1 23	10 12 10 12 10 13 10 14 10 14	2 29	18 2 18 2 18 3 18 4 18 4	0 41 0 41 0 41 0 41	19 37 0 19 37 0 19 37 0 19 38 0 19 38 0 19 39 0 19 39 0	21 9 13 21 9 13 21 9 13 21 9 13 21 9 13	3 12 10	10 47 10 49 10 50 10 52	10 21 10 22 10 24 10 25 10 26		13 18 2 13 18 2 13 19 2 13 19 2	24 24 24 24
S 26 M27 T 28 W29 T 30 F 31	19 32 19 18 19 5 18 51 18 37 18n22	7 16 1 3 28 2 0s26 3 4 16 3	12 9 24	2 47 22 45 3 0 22 42 3 13 22 39 3 25 22 35	0 24 23 30 0 21 23 20 0 18 23 22	0 46 6 0 47 2 0 48 8 0 48	2 6 2 7 2 8 2 9	1 24 1 24 1 24	10 16 10 16 10 16 10 17	2 30 2 30 2 30 2 30 2 31 2 s31	18 6 18 7 18 8	0 41 0 41 0 41 0 41	19 39 0 19 40 0 19 40 0 19 40 0 19 41 0 19 41 0	21 9 14 21 9 15 21 9 15 21 9 15	1 12 9 5 12 8 5 12 8	10 54 10 54 10 54 10 53 10 52 10n52	10 29 10 30 10 32 10 33		13 20 2 13 21 2 13 21 2	24 24 24 24

Julian Day Number = 2450995.5, Delta T = 63.24 sec Ecliptic obliquity = $23^{\circ}26'13$, Nutation = - $0^{\circ}00'07$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}43'09$, Lahiri = $23^{\circ}50'10$

AUGUST 1998 00:00 UT

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Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(¥	Р	n	Ω	Ç	ę,	Day
S 1	20 37 36	8 Ω 33'57	14 M 1	28°R14	149556	1795 6	27°R45	3 8 26	10°R51	0°R33	5°R22	1°R42	2 Mp 30	25 £ 29	12 M 46	S 1
S 2	20 41 33	9°31'21	26° 3	28 N 7	16° 9	17°46	27) (42	3°28	10≈49	0≈32	5 ₹ 21	1 m)41	2°27	25°35	12°48	S 2
M 3	20 45 29	10°28'45	8 √ 17	27°54	17°22	18°25	27°39	3°29	10°47	0°30	5°21	1°39	2°24	25°42	12°50	M 3
T 4	20 49 26	11°26'10	20°48	27°37	18°34	19° 4	27°36	3°30	10°44	0°28	5°20	1°37	2°20	25°49	12°53	T 4
W 5	20 53 22	12°23'36	3 云 37	27°14	19°47	19°44	27°32	3°32	10°42	0°27	5°20	1°34	2°17	25°55	12°55	W 5
T 6	20 57 19	13°21'03	16°46	26°46	21° 0	20°23	27°29	3°33	10°40	0°25	5°20	1°31	2°14	26° 2	12°58	T 6
F 7	21 1 16	14°18'30	0≈16	26°14	22°13	21° 2	27°25	3°34	10°37	0°24	5°19	1°29	2°11	26° 9	13° 0	F 7
S 8	21 5 12	15°15'58	14° 6	25°38	23°26	21°41	27°21	3°35	10°35	0°22	5°19	1°28	2° 8	26°16	13° 3	S 8
S 9	21 9 9	16°13'28	28°11	24°57	24°39	22°21	27°17	3°35	10°32	0°20	5°19	1°D27	2° 5	26°22	13° 6	S 9
M10	21 13 5	17°10'58	12) 28	24°13	25°52	23° 0	27°13	3°36	10°30	0°19	5°18	1°27	2° 1	26°29	13° 9	M10
T 11	21 17 2	18° 8'30	26°53	23°27	27° 5	23°39	27° 8	3°36	10°28	0°17	5°18	1°28	1°58	26°36	13°12	T 11
W12	21 20 58	19° 6'03	11 Y 21	22°39	28°18	24°18	27° 4	3°37	10°25	0°16	5°18	1°29	1°55	26°42	13°15	W12
T 13	21 24 55	20° 3'37	25°46	21°50	29°32	24°57	26°59	3°37	10°23	0°14	5°18	1°30	1°52	26°49	13°18	T 13
F 14	21 28 51	21° 1'13	10 8 6	21° 0	0 Ω 45	25°36	26°54	3°38	10°21	0°13	5°18	1°31	1°49	26°56	13°21	F 14
S 15	21 32 48	21°58'51	24°17	20°12	1°58	26°15	26°49	3°38	10°18	0°11	5°18	1°R31	1°45	27° 2	13°25	S 15
S 16	21 36 44	22°56'30	8 I 17	19°25	3°11	26°54	26°44	3°R38	10°16	0°10	5°D18	1°30	1°42	27° 9	13°28	S 16
M17	21 40 41	23°54'10	22° 5	18°41	4°25	27°33	26°38	3°38	10°14	0° 8	5°18	1°30	1°39	27°16	13°32	M17
T 18	21 44 38	24°51'53	59541	18° 1	5°38	28°11	26°33	3°37	10°11	0° 7	5°18	1°29	1°36	27°22	13°36	T 18
W19	21 48 34	25°49'36	19° 2	17°25	6°52	28°50	26°27	3°37	10° 9	0° 6	5°18	1°28	1°33	27°29	13°39	W19
T 20	21 52 31	26°47'22	$2\Omega 10$	16°54	8° 5	29°29	26°21	3°37	10° 7	0° 4	5°18	1°28	1°30	27°36	13°43	T 20
F 21	21 56 27	27°45'08	15° 4	16°30	9°19	0Ω 8	26°15	3°36	10° 4	0° 3	5°18	1°27	1°26	27°43	13°47	F 21
S 22	22 0 24	28°42'56	27°44	16°12	10°32	0°46	26° 9	3°36	10° 2	0° 1	5°18	1°D27	1°23	27°49	13°51	S 22
S 23	22 4 20	29°40'46	10 m 10	16° 1	11°46	1°25	26° 3	3°35	10° 0	0° 0	5°19	1°27	1°20	27°56	13°56	S 23
M24	22 8 17	0 m 38'37	22°25	15°D58	13° 0	2° 4	25°56	3°34	9°58	29 궁 59	5°19	1°27	1°17	28° 3	14° 0	M24
T 25	22 12 13	1°36'29	4 ₽ 30	16° 2	14°13	2°42	25°50	3°33	9°56	29°57	5°19	1°R27	1°14	28° 9	14° 4	T 25
W26	22 16 10	2°34'22	16°27	16°14	15°27	3°21	25°43	3°32	9°53	29°56	5°19	1°27	1°11	28°16	14° 9	W26
T 27	22 20 7	3°32'17	28°19	16°35	16°41	3°59	25°36	3°31	9°51	29°55	5°20	1°27	1° 7	28°23	14°13	T 27
F 28	22 24 3	4°30'13	10 M 9	17° 3	17°54	4°37	25°29	3°30	9°49	29°53	5°20	1°27	1° 4	28°29	14°18	F 28
S 29	22 28 0	5°28'11	22° 3	17°39	19° 8	5°16	25°22	3°29	9°47	29°52	5°20	1°27	1° 1	28°36	14°22	S 29
S 30	22 31 56	6°26'10	4 ₹ 4	18°23	20°22	5°54	25°15	3°27	9°45	29°51	5°21	1°D26	0°58	28°43	14°27	S 30
M31	22 35 53	7 m 24'10	16 ₹ 16	19 Ω 14	21 \O 36	6 Ω 32	25 米 8	3 8 26	9 ≈ 43	29 궁 50	5 ₹ 21	1 M 27	0 m 55	28 ♀ 50	14MJ32	M31

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S 1	18n 7	11s16 5n	0 8n30	3 s49	22n26	0s10	23n 9	0n49	2s12	1 s25	10n17	2 s 3 1	18 s10	0s41	19s41	0n21	9s16 12n 6	10n52	10n35	6s 1	13 s23	2n24
S 2	17 52	14 11 5	13 8 22	4 1	22 20	0 7	23 5	0 50	2 13	1 25	10 18	2 31	18 10	0 41	19 42	0 21	9 17 12 6	10 52	10 36	6 3	13 23	2 24
M 3	17 37						23 0	0 50	2 15	1 26			18 11	0 41	19 42	0 21		10 53			13 24	2 24
T 4		18 10 4					22 55		2 16	1 26			18 12	0 41	19 43	0 21		10 54			13 25	2 24
W 5 T 6	17 5 16 49				21 59 21 51		22 50 22 44	0 51 0 52	2 18 2 20	1 26 1 27			18 12 18 13	0 41 0 41	19 43 19 43	0 21 0 21		10 55 10 56		6 9	13 26 13 26	2 24 2 24
F 7		17 25 2			21 42		22 39	0 52	2 21	1 27			18 14	0 41	19 44	0 21		10 50			13 27	2 24
S 8	16 15				21 33		22 33		2 23		10 18		18 14	0 41		0 21		10 57			13 28	2 24
S 9	15 58	11 49 0	18 8 38	4 51	21 23	0 11	22 27	0 53	2 25	1 27	10 18	2 33	18 15	0 41	19 44	0 21	9 19 12 3	10 57	10 44	6 16	13 29	2 24
M10	15 41	7 49 1s	1 8 51	4 52	21 12	0 14	22 21	0 54	2 27	1 28	10 18	2 34	18 16	0 41	19 45	0 21	9 20 12 2	10 57	10 45	6 18	13 30	2 24
T 11	15 23	3 19 2				0 16		0 54	2 29	1 28			18 16		19 45	0 21		10 57			13 30	2 24
W12 T 13	15 6	1n22 3			20 48	0 19		0 55	2 31	1 28			18 17	0 41	19 45	0 21	9 21 12 1	10 57			13 31	2 24
F 14	14 48 14 29		17 9 43 55 10 4		20 36 20 23	0 21 0 24	22 2 21 56	0 55 0 56	2 33 2 35	1 28 1 29			18 18 18 18	0 41 0 41	19 46 19 46	0 21 0 21	9 21 12 1 9 22 12 (10 56 10 56			13 32 13 33	2 24 2 24
S 15	-		14 10 26					0 56		1 29			18 19	0 41	19 46	0 21		10 56			13 34	2 24
S 16	13 52	16 30 5	15 10 49	4 23	19 55	0 29	21 42	0 56	2 40	1 29	10 18	2 35	18 19	0 41	19 47	0 21	9 22 11 59	10 56	10 52	6 30	13 35	2 24
M17		18 16 4				0 31		0 57	2 42	1 29			18 20	0 41	19 47	0 21	9 23 11 59				13 36	2 24
T 18	-	18 57 4				0 34	-	0 57	2 45	1 30			18 21	0 41	19 47	0 21	9 23 11 58				13 37	2 24
W19 T 20	12 55 12 35	18 33 3 17 9 2	34 12 1 35 12 25	3 46 3 31		0 36 0 38		0 58 0 58	2 47 2 50	1 30 1 30			18 21 18 22	0 41 0 41	19 48 19 48	0 21 0 21	9 24 11 58				13 38 13 40	2 24 2 24
F 21			30 12 48			0 40		0 59	2 52	1 30			18 23	0 41	19 48	0 21	9 25 11 57				13 41	2 24
S 22	-	11 56 0			18 17	0 43	-	0 59	2 55		10 15		18 23	0 41	19 49	0 21	9 25 11 56				13 42	2 24
S 23	11 35	8 30 On	48 13 29	2 40	17 58	0 45	20 49	1 0	2 58	1 31	10 15	2 37	18 24	0 41	19 49	0 21	9 26 11 56	10 57	11 0	6 43	13 43	2 24
M24	11 15	4 45 1	54 13 47	2 22	17 40	0 47	20 41	1 0	3 0	1 31	10 14	2 37	18 24	0 41	19 49	0 21	9 26 11 55	10 57	11 1	6 45	13 44	2 24
T 25	10 54	0 52 2					20 32		3 3	1 31	10 14		18 25	0 41	19 49	0 21	9 27 11 55				13 46	2 25
W26 T 27	10 33 10 13	3s 0 3 6 44 4		-		0 51 0 53		1 1 1 2	3 6	1 31	10 13 10 13		18 25 18 26	0 41 0 41	19 50 19 50	0 20 0 20	9 27 11 54 9 28 11 54		-		13 47 13 48	2 25 2 25
F 28		-	26 14 28 56 14 37	1 10		0 55		1 2	3 12	1 31			18 27	0 41	19 50	0 20	9 28 11 52				13 49	2 25
S 29		-	13 14 42			0 57			3 15		10 11		18 27	0 41	19 51	0 20	9 29 11 53				13 51	2 25
S 30	9 9	15 46 5	17 14 45	0 36	15 37	0 59	19 49	1 3	3 18	1 32	10 11	2 39	18 28	0 41	19 51	0 20	9 30 11 53	10 58	11 8	6 57	13 52	2 25
M31	8n47	17 s39 5n	7 14n44	0 s 2 0	15n15	1n 0	19n40	1n 4	3 s20	1 s32	10n10	2 s 3 9	18 s28	0s41	19s51	0n20	9s30 11n52	10n58	11n 9	6 s 5 8	13 s53	2n25

 $\label{eq:Julian Day Number = 2451026.5, Delta\ T=63.28\ sec} \\ Ecliptic\ obliquity = 23°26'14, Nutation = -0°00'07, out-of-bounds\ declination\ in\ red \\$

Ayanamsha: Fagan/Bradley = $24^{\circ}43'14$, Lahiri = $23^{\circ}50'14$

SEPTEMBER 1998 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(卉	Р	S.	v	Ç	Ŷ,	Day
T 1	22 39 49	8 mg 22'12	28 × ⁷ 45	20 Ω 13	22 Q 50	7 Ω 11	25°R 1	3°R24	9°R41	29°R49	5 ₹ 22	1 m) 27	0 m 51	28 ≏ 56	14 M .37	T 1
W 2	22 43 46	9°20'14	11 る 33	21°18	24° 4	7°49	24) 53	3 8 22	9 ≈ 39	29 궁 47	5°22	1°28	0°48	29° 3	14°42	W 2
T 3	22 47 42	10°18'19	24°45	22°31	25°18	8°27	24°46	3°20	9°37	29°46	5°23	1°28	0°45	29°10	14°47	T 3
F 4	22 51 39	11°16'25	8≈21	23°49	26°32	9° 5	24°38	3°18	9°35	29°45	5°24	1°29	0°42	29°16	14°52	F 4
S 5	22 55 36	12°14'32	22°22	25°12	27°46	9°43	24°31	3°16	9°33	29°44	5°24	1°30	0°39	29°23	14°57	S 5
S 6	22 59 32	13°12'41	6) €45	26°41	29° 0	10°21	24°23	3°14	9°31	29°43	5°25	1°R30	0°36	29°30	15° 2	S 6
M 7	23 3 29	14°10'51	21°26	28°14	0 m 14	10°59	24°15	3°12	9°30	29°42	5°26	1°29	0°32	29°37	15° 8	M 7
T 8	23 7 25	15° 9'04	6 Υ 17	29°52	1°28	11°37	24° 8	3°10	9°28	29°41	5°26	1°28	0°29	29°43	15°13	T 8
W 9	23 11 22	16° 7'18	21°10	1 m 33	2°43	12°15	24° 0	3° 7	9°26	29°40	5°27	1°26	0°26	29°50	15°19	W 9
T 10	23 15 18	17° 5'34	5 8 59	3°17	3°57	12°53	23°52	3° 5	9°24	29°39	5°28	1°24	0°23	29°57	15°24	T 10
F 11	23 19 15	18° 3'52	20°36	5° 3	5°11	13°31	23°44	3° 2	9°23	29°38	5°29	1°23	0°20	0 M 3	15°30	F 11
S 12	23 23 11	19° 2'13	4 ∏ 57	6°52	6°25	14° 9	23°36	3° 0	9°21	29°37	5°30	1°22	0°16	0°10	15°36	S 12
S 13	23 27 8	20° 0'35	18°57	8°42	7°40	14°47	23°28	2°57	9°19	29°36	5°31	1°D21	0°13	0°17	15°42	S 13
M14	23 31 5	20°59'00	2938	10°33	8°54	15°24	23°20	2°54	9°18	29°35	5°31	1°21	0°10	0°23	15°47	M14
T 15	23 35 1	21°57'27	15°59	12°25	10°8	16° 2	23°12	2°51	9°16	29°34	5°32	1°22	0° 7	0°30	15°53	T 15
W16	23 38 58	22°55'56	29° 2	14°18	11°23	16°40	23° 4	2°48	9°15	29°34	5°33	1°24	0° 4	0°37	15°59	W16
T 17	23 42 54	23°54'27	11 Ω 49	16°11	12°37	17°17	22°56	2°45	9°13	29°33	5°34	1°25	0° 1	0°44	16° 5	T 17
F 18	23 46 51	24°53'00	24°23	18° 4	13°52	17°55	22°48	2°42	9°12	29°32	5°36	1°26	29 Ω 57	0°50	16°12	F 18
S 19	23 50 47	25°51'35	6 m 45	19°57	15° 6	18°32	22°40	2°39	9°10	29°31	5°37	1°R26	29°54	0°57	16°18	S 19
S 20	23 54 44	26°50'12	18°57	21°49	16°21	19°10	22°32	2°35	9° 9	29°31	5°38	1°25	29°51	1° 4	16°24	S 20
M21	23 58 40	27°48'51	1 º 2	23°41	17°35	19°47	22°24	2°32	9° 7	29°30	5°39	1°23	29°48	1°10	16°30	M21
T 22	0 2 37	28°47'32	13° 0	25°33	18°50	20°25	22°17	2°28	9° 6	29°29	5°40	1°19	29°45	1°17	16°37	T 22
W23	0 6 33	29°46'15	24°53	27°23	20° 5	21° 2	22° 9	2°25	9° 5	29°29	5°41	1°14	29°42	1°24	16°43	W23
T 24	0 10 30	0 ჲ 45'00	6 M .44	29°13	21°19	21°40	22° 1	2°21	9° 4	29°28	5°43	1° 9	29°38	1°30	16°50	T 24
F 25	0 14 27	1°43'46	18°34	1 ♀ 3	22°34	22°17	21°53	2°17	9° 3	29°28	5°44	1° 4	29°35	1°37	16°56	F 25
S 26	0 18 23	2°42'35	0 ∡ 28	2°51	23°49	22°54	21°45	2°14	9° 1	29°27	5°45	0°59	29°32	1°44	17° 3	S 26
S 27	0 22 20	3°41'25	12°27	4°39	25° 3	23°31	21°38	2°10	9° 0	29°27	5°46	0°56	29°29	1°51	17°10	S 27
M28	0 26 16	4°40'17	24°37	6°25	26°18	24° 8	21°30	2° 6	8°59	29°26	5°48	0°54	29°26	1°57	17°16	M28
T 29	0 30 13	5°39'10	7정 1	8°11	27°33	24°46	21°23	2° 2	8°58	29°26	5°49	0°D53	29°22	2° 4	17°23	T 29
W30	0 34 9	6 ₽ 38'06	19 る 43	9 ჲ 56	28 m)48	$25\Omega_{23}$	21 米 15	1 8 58	8 ≈ 57	29 る 25	5 ₹ 51	0 m 54	29 Ω 19	2 M .11	17 M .30	W30

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W 2	8 4	18 54	4 3	14 34	0n10	14 30	1 4	19 21	1 4	3 27	1 32	10 8	2 39	18 29	0 41	19 52	0 20	9 31 11 3	1 10 5	7 11 11	7 2	13 56	2 25
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T 8	5 51	0 16	3 1	12 43	1 17	12 5	1 13	18 22	1 7	3 45	1 33	10 3	2 41	18 32	0 41	19 53	0 20	9 35 11 4	8 10 5	7 11 18	7 14	14 5	2 25
W 9	5 28	4n32	4 1	12 14	1 24	11 40		18 12	1 8	3 49	1 33	10 2	2 41		-	19 53	0 20	9 35 11 4	-	-	7 16		2 25
T 10	5 6	9 1	-	11 43	1 31	11 14		18 2	1 8	3 52	1 33		2 41			19 54	0 20	9 36 11 4		-	7 17		2 25
F 11	4 43	12 55		11 9	1 36	10 48	-	17 52	1 9	3 55	1 33		2 41			19 54	0 20	9 37 11 4				14 10	2 25
S 12	4 20	15 57	5 15	10 33	1 41	10 21	1 17	17 41	1 9	3 58	1 33	9 59	2 42	18 34	0 41	19 54	0 20	9 37 11 4	6 10 5	9 11 22	7 21	14 11	2 25
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M14	3 34	18 55	4 30	9 15	1 47	9 28	1 20	17 20	1 10	4 5	1 34	9 56	2 42	18 35	0 41	19 54	0 20	9 38 11 4	5 10 5	9 11 25	7 25	14 15	2 25
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W16	2 48	17 35	2 49	7 51	1 49	8 33	1 21	16 58	1 11	4 11	1 34	9 54	2 42	18 36	0 40	19 55	0 20	9 40 11 4	5 10 5	9 11 27	7 29	14 18	2 25
T 17	2 25	15 33	1 46	7 8	1 49	8 5	1 22	16 47	1 11	4 14	1 34	9 53	2 43	18 36	0 40	19 55	0 20	9 40 11 4	4 10 5	8 11 28	7 31	14 20	2 26
F 18	2 2	12 47	0 39	6 23	1 49	7 37	1 23	16 36	1 12	4 17	1 34	9 51	2 43	18 36	0 40	19 55	0 20	9 41 11 4	4 10 5	8 11 29	7 33	14 21	2 26
S 19	1 39	9 29	0n29	5 38	1 47	7 9	1 23	16 25	1 12	4 21	1 34	9 50	2 43	18 37	0 40	19 55	0 20	9 41 11 4	3 10 5	8 11 30	7 35	14 23	2 26
S 20	1 15	5 49	1 35	4 52	1 45	6 41	1 24	16 13	1 12	4 24	1 34	9 49	2 43	18 37	0 40	19 56	0 20	9 42 11 4	3 10 5	8 11 31	7 36	14 25	2 26
M21	0 52	1 58	2 35	4 5	1 43	6 12	1 25	16 2	1 13	4 27	1 34	9 48	2 43	18 37	0 40	19 56	0 20	9 43 11 4	2 10 5	9 11 33	7 38	14 26	2 26
T 22	0 29	1 s56	3 28	3 18	1 40	5 43	1 25	15 50	1 13	4 30	1 34	9 46	2 43	18 38	0 40	19 56	0 20	9 43 11 4	2 11	0 11 34	7 40	14 28	2 26
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T 24	0 s18	9 17	4 44	1 44	1 33	4 45	1 26	15 27	1 14	4 36	1 34	9 43	2 44	18 38	0 40	19 56	0 20	9 45 11	1 11	4 11 36	7 44	14 32	2 26
F 25	0 41	12 28	5 5	0 56	1 29	4 16	1 26	15 16	1 15	4 39	1 34	9 42	2 44	18 39	0 40	19 56	0 20	9 45 11 4	0 11	6 11 37	7 46	14 33	2 26
S 26	1 5	15 9	5 12	0 9	1 24	3 47	1 26	15 4	1 15	4 42	1 34	9 41	2 44	18 39	0 40	19 56	0 20	9 46 11 4	0 11	7 11 38	7 48	14 35	2 26
S 27	1 28	17 14	5 6	0s38	1 19	3 17	1 26	14 52	1 16	4 45	1 34	9 39	2 44	18 39	0 40	19 57	0 20	9 47 11 4	0 11	9 11 39	7 50	14 37	2 26
M28	1 51	18 34	4 46	1 25	1 14	2 47	1 26	14 40	1 16	4 48	1 34	9 38	2 44	18 39	0 40	19 57	0 20	9 47 11 3	9 11	9 11 40	7 52	14 39	2 26
T 29	2 15	19 3	4 12	2 12	1 8	2 18	1 26	14 28	1 16	4 51	1 34	9 36	2 44	18 40	0 40	19 57	0 20	9 48 11 3	9 11 1	0 11 41	7 54	14 41	2 27
W30	2 s38	18 s36	3n26	2 s 5 9	1n 3	1n48	1n26	14n16	1n17	4 s 5 4	1 s34	9n35	2 s45	18 s40	0 s40	19s57	0n20	9 s 48 11 n .	8 11n	9 11n43	7 s 5 5	14 s42	2n27

 $\label{eq:Julian Day Number = 2451057.5} \ Delta\ T = 63.32\ sec$ $Ecliptic\ obliquity = 23°26'14,\ Nutation = -0°00'08,\ out-of-bounds\ declination\ in\ red$ $Ayanamsha:\ Fagan/Bradley = 24°43'18,\ Lahiri = 23°50'18$

OCTOBER 1998 00:00 UT

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T 1	0 38 6	7 ₽ 37'03	2≈49	11 ≏ 40	0요 2	26 Ω 0	21°R 8	1°R54	8°R57	29°R25	5 ₹ 52	0 m 55	29 Ω 16	2 M 17	17 M 37	T 1
F 2	0 42 2	8°36'02	16°22	13°23	1°17	26°37	21 米 0	1850	8≈56	29る25	5°53	0°57	29°13	2°24	17°44	F 2
S 3	0 45 59	9°35'03	0 ∺ 22	15° 6	2°32	27°14	20°53	1°45	8°55	29°24	5°55	0°R57	29°10	2°31	17°51	S 3
S 4	0 49 56	10°34'05	14°49	16°47	3°47	27°50	20°46	1°41	8°54	29°24	5°56	0°57	29° 7	2°38	17°58	S 4
M 5	0 53 52	11°33'09	29°40	18°28	5° 2	28°27	20°39	1°37	8°53	29°24	5°58	0°54	29° 3	2°44	18° 5	M 5
T 6	0 57 49	12°32'16	$14^{\circ}47$	20° 7	6°17	29° 4	20°32	1°32	8°53	29°24	6° 0	0°50	29° 0	2°51	18°12	T 6
W 7	1 1 45	13°31'24	08 2	21°46	7°32	29°41	20°26	1°28	8°52	29°23	6° 1	0°44	28°57	2°58	18°19	W 7
T 8	1 5 42	14°30'34	15°13	23°24	8°46	0mp18	20°19	1°24	8°52	29°23	6° 3	0°37	28°54	3° 4	18°26	T 8
F 9	1 9 38	15°29'47	0 Π 10	25° 2	10° 1	0°54	20°12	1°19	8°51	29°23	6° 4	0°31	28°51	3°11	18°34	F 9
S 10	1 13 35	16°29'02	14°46	26°38	11°16	1°31	20° 6	1°15	8°51	29°23	6° 6	0°26	28°47	3°18	18°41	S 10
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S 11	1 17 31	17°28'20	28°57	28°14	12°31	2° 8	20° 0	1°10	8°50	29°23	6° 8	0°22	28°44	3°24	18°48	S 11
M12	1 21 28	18°27'39	125541	29°49	13°46	2°44	19°54	1° 5	8°50	29°D23 29°23	6°10	0°D20	28°41	3°31	18°55 19° 3	M12
T 13	1 25 25	19°27'01	25°58	1M24	15° 1 16°16	3°21	19°48	1° 1	8°49	29°23	6°11	0°20	28°38	3°38	-, -	T 13 W14
W14 T 15	1 29 21 1 33 18	20°26'26 21°25'52	8 Ω 53 21°29	2°57 4°30	16°16 17°32	3°57 4°33	19°42 19°36	0°56 0°51	8°49 8°49	29°23 29°23	6°13 6°15	0°21 0°23	28°35 28°32	3°45	19°10 19°18	W14 T 15
F 16		21°25'52 22°25'21	-	6° 3	17°32 18°47		19°36 19°31	0°51 0°47	8°49 8°49	29°23 29°23	6°15 6°17		28°32 28°28	3°51	19°18 19°25	F 16
	1 37 14	-	3 m/49			5°10						0°R23		3°58 4° 5		
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S 18	1 45 7	24°24'26	27°59	9° 5	21°17	6°22	19°20	0°37	8°49	29°24	6°20	0°18	28°22	4°11	19°40	S 18
M19	1 49 4	25°24'01	9 ≏ 55	10°36	22°32	6°59	19°15	0°32	8°D49	29°24	6°22	0°11	28°19	4°18	19°48	M19
T 20	1 53 0	26°23'38	21°48	12° 6	23°47	7°35	19°10	0°28	8°49	29°24	6°24	0° 3	28°16	4°25	19°56	T 20
W21	1 56 57	27°23'18	3 M .39	13°35	25° 2	8°11	19° 5	0°23	8°49	29°25	6°26	29 £ 52	28°13	4°32	20° 3	W21
T 22	2 0 53	28°22'59	15°30	15° 3	26°17	8°47	19° 1	0°18	8°49	29°25	6°28	29°40	28° 9	4°38	20°11	T 22
F 23	2 4 50	29°22'43	27°23	16°31	27°32	9°23	18°57	0°13	8°49	29°25	6°30	29°29	28° 6	4°45	20°19	F 23
S 24	2 8 47	0ML22'28	9 √ 19	17°58	28°48	9°59	18°52	0° 9	8°49	29°26	6°32	29°18	28° 3	4°52	20°27	S 24
S 25	2 12 43	1°22'15	21°21	19°24	OML 3	10°35	18°48	0° 4	8°50	29°26	6°34	29° 9	28° 0	4°58	20°34	S 25
M26	2 16 40	2°22'04	3 云 32	20°50	1°18	11°11	18°45	29Υ59	8°50	29°27	6°36	29° 2	27°57	5° 5	20°42	M26
T 27	2 20 36	3°21'55	15°54	22°15	2°33	11°47	18°41	29°54	8°50	29°27	6°38	28°59	27°53	5°12	20°50	T 27
W28	2 24 33	4°21'47	28°32	23°39	3°48	12°22	18°38	29°49	8°51	29°28	6°40	28°57	27°50	5°19	20°58	W28
T 29	2 28 29	5°21'41	11≈31	25° 2	5° 4	12°58	18°34	29°45	8°51	29°28	6°42	28°D57	27°47	5°25	21° 6	T 29
F 30	2 32 26	6°21'37	24°53	26°25	6°19	13°34	18°31	29°40	8°52	29°29	6°44	28°R57	27°44	5°32	21°14	F 30
S 31	2 36 22	7 M 21'34	8) (43	27 M .46	7 m 34	14MD 9	18 ∺ 28	29 Y 35	8≈52	29 궁 29	6 ₮ 46	28 Q 57	27 Ω 41	5 M .39	21 M 21	S 31

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S 4 M 5 T 6 W 7 T 8 F 9	4 11 4 34 4 57 5 20 5 43 6 6	7 8 1s15 2 25 2 29 2n31 3 35 7 20 4 26 11 39 4 58 15 9 5 9	6 45 0 3 7 29 0 2 8 12 0 1 8 55 0 1	61 0 42 1 25 25 1 12 1 24 8 1 42 1 24	13 15 1 19 13 2 1 19 12 50 1 20 12 37 1 20	5 8 1 33	9 27 2 45 9 25 2 45 9 24 2 45 9 22 2 45	18 41 0 40 18 41 0 40		9 52 11 36 9 52 11 36 9 53 11 36 9 54 11 35		8 3 14 50 2 2 2 8 5 14 52 2 2 2 8 7 14 53 2 2 2 8 9 14 55 2 2 2 8 11 14 57 2 2 2 8 12 14 59 2 2 8
S 10 S 11 M12 T 13 W14 T 15 F 16 S 17		18 55 4 31 19 2 3 49 18 5 2 55 16 13 1 53 13 35 0 48	10 19 0s 11 0 0 1 11 40 0 1 12 20 0 2 12 59 0 3 13 37 0 3 14 14 0 4	3 3 12 1 22 0 3 42 1 21 7 4 12 1 20 4 4 42 1 19 11 5 12 1 18 8 5 41 1 17 15 6 11 1 16	12 12 1 21 11 59 1 21 11 46 1 22 11 33 1 22 11 21 1 23 11 8 1 23 10 55 1 23	5 20 1 33 5 23 1 32 5 25 1 32 5 27 1 32 5 29 1 32 5 31 1 32 5 34 1 32 5 35 1 32	9 19 2 46 9 17 2 46 9 16 2 46 9 14 2 46 9 12 2 46 9 11 2 46 9 9 2 46 9 7 2 46	18 41 0 40 18 41 0 40 18 41 0 40 18 42 0 40 18 42 0 40 18 42 0 40 18 42 0 40	19 58 0 19 19 58 0 19	9 55 11 34 9 55 11 34 9 56 11 34 9 57 11 33 9 57 11 33 9 58 11 33 9 59 11 32	11 19 11 54 11 21 11 55 11 21 11 56 11 21 11 57 11 21 11 58 11 20 11 59 11 20 12 0	8 14 15 1 2 28 8 16 15 3 2 28 8 18 15 5 2 28 8 20 15 6 2 28 8 22 15 8 2 28 8 24 15 10 2 2 28 8 26 15 12 2 28 8 28 15 14 2 29
S 18 M19 T 20 W21 T 22 F 23 S 24	11 15	0s56 3 15 4 47 3 59 8 27 4 33 11 47 4 54	16 36 1 1 17 9 1 1 17 42 1 2 18 13 1 3	5 7 38 1 13 2 8 7 1 11 8 8 36 1 10 4 9 5 1 9 31 9 33 1 7	10 29 1 24 10 16 1 25 10 2 1 25 9 49 1 25 9 36 1 26 9 23 1 26 9 10 1 27	5 37 1 31 5 39 1 31 5 41 1 31 5 43 1 31 5 44 1 31 5 46 1 31 5 47 1 30	9 6 2 46 9 4 2 46 9 2 2 46 9 1 2 46 8 59 2 46 8 57 2 46 8 56 2 46	18 42 0 40 18 42 0 40 18 42 0 40 18 41 0 40 18 41 0 40	19 58 0 19 19 58 0 19	10 1 11 31 10 1 11 31 10 2 11 31 10 2 11 30 10 3 11 30	11 22 12 2 11 24 12 4 11 27 12 5 11 31 12 6 11 35 12 7 11 39 12 8 11 43 12 9	8 29 15 16 2 29 8 31 15 18 2 29 8 33 15 20 2 29 8 35 15 21 2 29 8 37 15 23 2 29 8 39 15 25 2 30 8 41 15 27 2 30
S 25 M26 T 27 W28 T 29 F 30 S 31	12 18 12 38 12 58 13 18	19 13 4 11 19 3 3 28 17 56 2 34 15 52 1 31 12 53 0 22	20 37 2 21 3 2 21 28 2 1	19 10 57 1 3 14 11 24 1 1 10 11 51 0 59 5 12 18 0 57	8 57 1 27 8 43 1 28 8 30 1 28 8 17 1 28 8 3 1 29 7 50 1 29 7n37 1n30	5 49 1 30 5 50 1 30 5 51 1 30 5 52 1 30 5 53 1 29 5 54 1 29 5 855 1 829	8 53 2 46 8 51 2 46 8 49 2 46 8 48 2 46 8 46 2 46	18 41 0 39 18 41 0 39 18 41 0 39 18 41 0 39 18 40 0 39	19 57 0 19 19 57 0 0 19	10 5 11 29 10 5 11 29 10 6 11 29 10 7 11 28 10 7 11 28	11 46 12 10 11 48 12 11 11 50 12 12 11 50 12 13 11 50 12 15 11 50 12 16 11n50 12n17	8 43 15 29 2 30 8 44 15 31 2 30 8 46 15 33 2 30 8 48 15 35 2 30 8 50 15 36 2 31 8 52 15 38 2 3 8 54 15 840 2n3

Julian Day Number = 2451087.5, Delta T = 63.36 sec Ecliptic obliquity = $23^{\circ}26'15$, Nutation = - $0^{\circ}00'09$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}43'22$, Lahiri = $23^{\circ}50'23$

NOVEMBER 1998 00:00 UT

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M 2	2 44 16	9°21'33	7 Υ 46	0 ∡ 126	10° 5	15°20	18 ∺ 23	29 Y 26	8°54	29°31	6°51	$28\Omega50$	27°34	5°52	21°37	M 2
T 3	2 48 12	10°21'35	22°52	1°44	11°20	15°55	18°21	29°21	8°54	29°31	6°53	28°43	27°31	5°59	21°45	T 3
W 4	2 52 9	11°21'39	8811	3° 1	12°35	16°31	18°19	29°16	8°55	29°32	6°55	28°33	27°28	6° 6	21°53	W 4
T 5	2 56 5	12°21'45	23°32	4°17	13°50	17° 6	18°17	29°12	8°56	29°33	6°57	28°23	27°25	6°12	22° 1	T 5
F 6	3 0 2	13°21'52	8 Ⅱ 43	5°31	15° 5	17°41	18°16	29° 7	8°57	29°34	6°59	28°12	27°22	6°19	22° 9	F 6
S 7	3 3 58	14°22'02	23°33	6°43	16°21	18°16	18°14	29° 3	8°58	29°35	7° 1	28° 3	27°19	6°26	22°17	S 7
S 8	3 7 55	15°22'14	7957	7°53	17°36	18°52	18°13	28°58	8°59	29°36	7° 4	27°56	27°15	6°32	22°25	S 8
M 9	3 11 51	16°22'27	21°50	9° 2	18°51	19°27	18°12	28°54	9° 0	29°37	7° 6	27°51	27°12	6°39	22°33	M 9
T 10	3 15 48	17°22'43	5 Ω 13	10° 7	20° 7	20° 2	18°11	28°49	9° 1	29°38	7° 8	27°49	27° 9	6°46	22°41	T 10
W11	3 19 45	18°23'00	18° 9	11°10	21°22	20°37	18°10	28°45	9° 2	29°39	7°10	27°D49	27° 6	6°53	22°49	W11
T 12	3 23 41	19°23'20	0 m 43	12°10	22°37	21°11	18°10	28°41	9° 3	29°40	7°13	27°R49	27° 3	6°59	22°57	T 12
F 13	3 27 38	20°23'42	12°59	13° 7	23°52	21°46	18°10	28°36	9° 5	29°41	7°15	27°48	26°59	7° 6	23° 5	F 13
S 14	3 31 34	21°24'05	25° 2	13°59	25° 8	22°21	18°D10	28°32	9° 6	29°42	7°17	27°45	26°56	7°13	23°13	S 14
S 15	3 35 31	22°24'30	6 ₽ 58	14°48	26°23	22°56	18°10	28°28	9° 7	29°43	7°19	27°40	26°53	7°19	23°21	S 15
M16	3 39 27	23°24'57	18°49	15°31	27°38	23°30	18°10	28°24	9° 9	29°44	7°22	27°32	26°50	7°26	23°29	M16
T 17	3 43 24	24°25'26	0 M .39	16° 9	28°54	24° 5	18°11	28°20	9°10	29°45	7°24	27°21	26°47	7°33	23°37	T 17
W18	3 47 20	25°25'57	12°30	16°41	0 ∡ 7 9	24°39	18°12	28°16	9°12	29°46	7°26	27° 7	26°44	7°40	23°45	W18
T 19	3 51 17	26°26'29	24°25	17° 6	1°24	25°14	18°13	28°12	9°13	29°48	7°29	26°52	26°40	7°46	23°53	T 19
F 20	3 55 14	27°27'03	6 ₹ 24	17°23	2°40	25°48	18°14	28° 8	9°15	29°49	7°31	26°37	26°37	7°53	24° 1	F 20
S 21	3 59 10	28°27'38	18°28	17°R32	3°55	26°22	18°15	28° 4	9°16	29°50	7°33	26°23	26°34	8° 0	24° 9	S 21
S 22	4 3 7	29°28'15	0 ට 38	17°32	5°10	26°56	18°17	28° 0	9°18	29°51	7°36	26°11	26°31	8° 6	24°17	S 22
M23	4 7 3	0 ≯ 28'53	12°57	17°22	6°26	27°30	18°19	27°57	9°20	29°53	7°38	26° 2	26°28	8°13	24°25	M23
T 24	4 11 0	1°29'32	25°25	17° 2	7°41	28° 4	18°21	27°53	9°22	29°54	7°40	25°56	26°25	8°20	24°33	T 24
W25	4 14 56	2°30'12	8≈ 6	16°31	8°56	28°38	18°23	27°50	9°23	29°56	7°43	25°53	26°21	8°27	24°41	W25
T 26	4 18 53	3°30'54	21° 3	15°49	10°12	29°12	18°26	27°46	9°25	29°57	7°45	25°53	26°18	8°33	24°49	T 26
F 27	4 22 49	4°31'36	4 ∺ 20	14°57	11°27	29°46	18°28	27°43	9°27	29°58	7°47	25°53	26°15	8°40	24°57	F 27
S 28	4 26 46	5°32'20	17°59	13°55	12°43	0 亞 19	18°31	27°40	9°29	29°59	7°50	25°52	26°12	8°47	25° 5	S 28
S 29	4 30 43	6°33'04	2 Υ 2	12°45	13°58	0°53	18°34	27°36	9°31	0≈ 1	7°52	25°50	26° 9	8°53	25°13	S 29
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M 2	14 37	0n10	3 10	22 35	2 24	14 3	0 50	7 10	1 30	5 57	1 28	8 41	2 46	18 40	0 39	19 56	0 19	10 9	11 27	11 53	12 19	8 58	15 44	2 31
T 3	14 56	5 6	4 5	22 55	2 28	14 28	0 48	6 57	1 31	5 58	1 28	8 40	2 45	18 40	0 39	19 56	0 19	10 10	11 27	11 55	12 20	8 59	15 46	2 31
W 4	15 14	9 46	4 43	23 14	2 31	14 53	0 46	6 43	1 31	5 58	1 28	8 38	2 45	18 39	0 39	19 56	0 19	10 10	11 27	11 58	12 21	9 1	15 48	2 32
T 5	15 33	13 48	5 0	23 32	2 34	15 17	0 44	6 30	1 32	5 59	1 28	8 37	2 45	18 39	0 39	19 56	0 19	10 11	11 26	12 2	12 22	9 3	15 49	2 32
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M 9	16 44	18 44	2 58	24 29	2 43	16 51	0 36	5 36	1 33	6 0	1 27	8 31	2 45	18 38	0 39	19 55	0 19	10 13	11 26	12 13	12 27	9 11	15 57	2 33
T 10	17 1	17 5	1 57	24 39	2 43	17 14	0 33	5 23	1 34	6 0	1 27	8 29	2 45	18 38	0 39	19 55	0 19	10 14	11 25	12 14	12 28	9 13	15 58	2 33
W11	17 18	14 35	0 51	24 49	2 43	17 36	0 31	5 10	1 34	6 0	1 26	8 28	2 45	18 37	0 39	19 55	0 19	10 14	11 25	12 14	12 29	9 14	16 0	2 33
T 12	17 34	11 27	0n15	24 56	2 43	17 57	0 29	4 56	1 34	6 0	1 26	8 26	2 44	18 37	0 39	19 55	0 19	10 15	11 25	12 14	12 30	9 16	16 2	2 33
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M16	18 38	3 s45	3 55	25 11	2 33	19 19	0 20	4 3	1 36	5 59	1 25	8 21	2 44	18 35	0 39	19 54	0 19	10 17	11 24	12 20	12 34	9 24	16 9	2 34
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W18	19 7	10 59	4 50	25 7	2 22	19 56	0 15	3 36	1 37	5 58	1 25	8 18	2 44	18 35	0 39	19 53		10 18				9 27	16 13	2 35
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S 21	19 49	18 19	4 38	24 46	1 56	20 48	0 8	2 56	1 38	5 56	1 24	8 15	2 43	18 33	0 39	19 53	0 19	10 19	11 23	12 43	12 40	9 33	16 18	2 36
S 22	20 2	19 18	4 8	24 35	1 44	21 4	0 6	2 43	1 38	5 55	1 24	8 14	2 43	18 33	0 39	19 52	0 19	10 20	11 23	12 47	12 41	9 35	16 19	2 36
M23	20 15	19 24	3 26	24 21	1 31	21 20	0 3	2 30	1 39	5 54	1 23	8 13	2 43	18 32	0 39	19 52	0 19	10 20	11 23	12 50	12 42	9 37	16 21	2 36
T 24	20 27	18 32	2 33	24 5	1 17	21 35	0 1	2 17	1 39	5 53	1 23	8 11	2 42	18 32	0 39	19 52	0 19	10 21	11 23	12 52	12 43	9 39	16 23	2 36
W25	20 40	16 45	1 32	23 46	1 1	21 49	0s 2	2 4	1 39	5 52	1 23	8 10	2 42	18 31	0 39	19 52	0 19	10 21	11 23	12 53	12 44	9 41	16 24	2 37
T 26	20 51	14 5	0 25	23 24	0 43	22 3	0 4	1 51	1 40	5 51	1 23	8 9	2 42	18 31	0 39	19 51	0 19	10 22	11 23	12 54	12 45	9 42	16 26	2 37
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S 28	21 14	6 30	1 54	22 33	0 5	22 28	0 9	1 25	1 41	5 48	1 22	8 7	2 42	18 30	0 39	19 51	0 19	10 23	11 23	12 54	12 47	9 46	16 29	2 38
S 29	21 24	1 55	2 59	22 4	0n15	22 40	0 11	1 12	1 41	5 47	1 22	8 6	2 41	18 29	0 39	19 51	0 19	10 23	11 22	12 54	12 48	9 48	16 31	2 38
M30	21 s34	2n53	3 s54	21 s34	0n36	22 s51	0s14	0n59	1n41	5 s45	1 s22	8n 6	2 s41	18 s29	0 s 3 8	19s50	0n18	$10\mathrm{s}23$	11n22	12n56	12n49	9 s 5 0	16 s 3 2	2n38

 $\label{eq:Julian Day Number = 2451118.5, Delta T = 63.40 sec} \\ Ecliptic obliquity = 23°26'14, Nutation = -0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°43'26, Lahiri = 23°50'27 \\$

DECEMBER 1998 00:00 UT

DECE	THDEK 1	. 9 9 0													00.0	0 01
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T 3	4 46 29	10°36'12	1 II 35	7°22	18°59	3° 6	18°48	27°24	9°39	0° 8	8° 1	25°18	25°56	9°20	25°45	T 3
F 4	4 50 25	11°37'02	16°42	6° 5	20°14	3°40	18°52	27°22	9°42	0° 9	8° 4	25° 6	25°53	9°27	25°52	F 4
S 5	4 54 22	12°37'53	1933	4°54	21°30	4°13	18°57	27°19	9°44	0°11	8° 6	24°56	25°50	9°34	26° 0	S 5
S 6	4 58 18	13°38'45	16° 2	3°51	22°45	4°46	19° 1	27°17	9°46	0°13	8° 8	24°49	25°46	9°40	26° 8	S 6
M 7	5 2 15	14°39'38	0 Ω 3	2°58	24° 0	5°18	19° 6	27°14	9°48	0°14	8°11	24°44	25°43	9°47	26°16	M 7
T 8	5 6 12	15°40'32	13°34	2°16	25°16	5°51	19°10	27°12	9°51	0°16	8°13	24°41	25°40	9°54	26°24	T 8
W 9	5 10 8	16°41'28	26°37	1°46	26°31	6°24	19°15	27° 9	9°53	0°18	8°15	24°D41	25°37	10° 1	26°31	W 9
T 10	5 14 5	17°42'25	9 m)15	1°27	27°46	6°56	19°21	27° 7	9°56	0°20	8°18	24°41	25°34	10° 7	26°39	T 10
F 11	5 18 1	18°43'23	21°34	1°D19	2 <u>9°</u> 2	7°29	19°26	27° 5	9°58	0°22	8°20	24°R41	25°30	10°14	26°47	F 11
S 12	5 21 58	19°44'22	3 ₾ 39	1°21	0중17	8° 1	19°31	27° 3	10° 1	0°23	8°22	24°40	25°27	10°21	26°54	S 12
S 13	5 25 54	20°45'22	15°34	1°33	1°32	8°33	19°37	27° 1	10° 3	0°25	8°25	24°37	25°24	10°27	27° 2	S 13
M14	5 29 51	21°46'23	27°24	1°54	2°48	9° 6	19°43	27° 0	10° 6	0°27	8°27	24°31	25°21	10°34	27° 9	M14
T 15	5 33 47	22°47'26	9 M .14	2°23	4° 3	9°38	19°49	26°58	10° 8	0°29	8°29	24°23	25°18	10°41	27°17	T 15
W16	5 37 44	23°48'29	21° 8	2°59	5°18	10°10	19°55	26°56	10°11	0°31	8°32	24°12	25°15	10°48	27°24	W16
T 17	5 41 41	24°49'33	3 ∡ 7 7	3°42	6°34	10°41	20° 2	26°55	10°14	0°33	8°34	24° 1	25°11	10°54	27°32	T 17
F 18	5 45 37	25°50'38	15°13	4°30	7°49	11°13	20° 8	26°54	10°16	0°35	8°36	23°49	25° 8	11° 1	27°39	F 18
S 19	5 49 34	26°51'43	27°28	5°23	9° 4	11°45	20°15	26°52	10°19	0°37	8°39	23°37	25° 5	11° 8	27°46	S 19
S 20	5 53 30	27°52'50	9 궁 53	6°21	10°20	12°16	20°22	26°51	10°22	0°39	8°41	23°28	25° 2	11°15	27°54	S 20
M21	5 57 27	28°53'56	22°27	7°23	11°35	12°47	20°29	26°50	10°25	0°41	8°43	23°21	24°59	11°21	28° 1	M21
T 22	6 1 23	2 <u>9</u> °55'03	5≈11	8°28	12°50	13°19	20°36	26°49	10°27	0°43	8°45	23°17	24°56	11°28	28° 8	T 22
W23	6 5 20	0 궁 56'11	18° 6	9°36	14° 6	13°50	20°43	26°49	10°30	0°45	8°47	23°D15	24°52	11°35	28°15	W23
T 24	6 9 17	1°57'18	1) (14	10°46	15°21	14°21	20°51	26°48	10°33	0°47	8°50	23°15	24°49	11°41	28°23	T 24
F 25	6 13 13	2°58'26	14°37	11°59	16°36	14°51	20°58	26°47	10°36	0°49	8°52	23°16	24°46	11°48	28°30	F 25
S 26	6 17 10	3°59'34	28°15	13°15	17°52	15°22	21° 6	26°47	10°39	0°51	8°54	23°R17	24°43	11°55	28°37	S 26
S 27	6 21 6	5° 0'42	12 Y 10	14°31	19° 7	15°53	21°14	26°46	10°42	0°53	8°56	23°17	24°40	12° 2	28°44	S 27
M28	6 25 3	6° 1'49	26°22	15°50	20°22	16°23	21°22	26°46	10°45	0°55	8°58	23°15	24°36	12° 8	28°51	M28
T 29	6 28 59	7° 2'57	10849	17°10	21°37	16°53	21°31	26°46	10°48	0°57	9° 1	23°11	24°33	12°15	28°58	T 29
W30	6 32 56	<u>8°</u> 4'05	25°29	18°31	2 <u>2</u> °53	17°23	21°39	26°D46	10°51	0°59	9° 3	23° 6	24°30	12°22	29° 4	W30
T 31	6 36 52	9 る 5'13	10 Ⅱ 14	19 × 753	24중 8	17 ≏ 53	21) 48	26 Y 46	10≈54	1≈ 1	9 ₹ 5	$22\Omega 59$	$24\Omega 27$	12 M 28	29 M .11	T 31

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S 6 M 7 T 8 W 9 T 10	22 26 22 33 22 40 22 46 22 52	18 4 2 15 49 0 5 12 48 0n1	0 18 40 7 18 20 9 18 4 0 17 53 7 17 45	2 27 23 2 35 23 2 41 23	58 0 35	0 18 0 31 0 43 0 56 1 8	1 44 1 44 1 45 1 45 1 45	5 34 5 32 5 30 5 28 5 26	1 20 1 20 1 20 1 19 1 19	8 1 8 0 8 0 7 59 7 59	2 40 2 39 2 39	18 24	0 38 0 38 0 38	19 48 19 48 19 48 19 47 19 47	0 18 0 18 0 18	10 27 1	11 22 11 22 11 22	13 17 13 17 13 18	12 57 12 58 12 59	10 3 10 5 10 6	16 42 16 43 16 44 16 46 16 47	2 40 2 40 2 41 2 41 2 41
F 11 S 12	22 58 23 2	1 29 3 1	8 17 42 2 17 42	2 47 24	8 0 42	1 21 1 33	1 46 1 46	5 24 5 21	1 19 1 19	7 58 7 58	2 38	18 21	0 38	19 46	0 18 0 18	10 28	11 22	13 18	13 2		16 50	2 42 2 42
S 13 M14 T 15 W16 T 17 F 18 S 19	23 7 23 11 23 14 23 18 23 20 23 22 23 24	6 20 4 3 9 56 4 5 13 10 5 15 52 5 17 56 4 4		2 43 24 2 40 24 2 36 24 2 30 24 2 24 24	10 0 46 11 0 48 10 0 50 9 0 52 7 0 54	1 46 1 58 2 10 2 22 2 34 2 46 2 58	1 47 1 47 1 48 1 48 1 49 1 49	5 19 5 16 5 14 5 11 5 8 5 6 5 3	1 18 1 18 1 18 1 18 1 18 1 17 1 17	7 57 7 57 7 56 7 56 7 56 7 56 7 55	2 38 2 38 2 37 2 37 2 37	18 20 18 19 18 18 18 17 18 17 18 16	0 38 0 38 0 38 0 38 0 38	19 45 19 44	0 18 0 18 0 18 0 18 0 18	10 29 1 10 30 1	11 22 11 22 11 22 11 22 11 22	13 21 13 24 13 27 13 31 13 35	13 4 13 5 13 6 13 7 13 8	10 16 10 17 10 19 10 21 10 23	16 56 16 57 16 58	2 42 2 43 2 43 2 43 2 44 2 44 2 44
S 20 M21 T 22 W23 T 24 F 25 S 26	23 25 23 26 23 26 23 26 23 25 23 24 23 23	18 59 2 3 17 26 1 3 14 58 0 2 11 42 0s4 7 47 1 5	5 19 48	2 4 23 1 56 23 1 49 23 1 41 23 1 33 23	56 1 0 51 1 2 45 1 4 39 1 6 31 1 8	3 10 3 22 3 34 3 45 3 57 4 9 4 20	1 49 1 50 1 50 1 50 1 51 1 51 1 52	5 0 4 57 4 54 4 51 4 48 4 44 4 41	1 17 1 17 1 16 1 16 1 16 1 16 1 16	7 55 7 55 7 55 7 55 7 55 7 55 7 55 7 55	2 36 2 36 2 35 2 35 2 35	18 15 18 14 18 14 18 13 18 12 18 11 18 10	0 38 0 38 0 38 0 38 0 38	19 43 19 42	0 18 0 18 0 18 0 18 0 18	10 31 1 10 31 1 10 32 1 10 32 1	11 22 11 22 11 22 11 22 11 22	13 44 13 45 13 46 13 46 13 46	13 12 13 13 13 14 13 15 13 16	10 28 10 30 10 32 10 34 10 36	17 2 17 3 17 4 17 6 17 7	2 45 2 45 2 46 2 46 2 46 2 47 2 47
	23 21 23 18 23 15 23 12 23 s 8	5 54 4 3 10 18 5 14 8 5	3 21 16 5 21 33 1 21 49 8 22 5 5 22 s20	1 8 23 1 0 22 0 52 22	5 1 13 55 1 14 44 1 16	4 31 4 43 4 54 5 5 5 s16	1 52 1 52 1 53 1 53 1 n54	4 38 4 34 4 31 4 27 4s24	1 15 1 15 1 15 1 15 1 s15	7 55 7 56 7 56 7 56 7 56 7n56	2 34 2 34 2 33	18 8	0 38 0 38 0 38	19 40 19 40 19 39 19 39 19 s38	0 18 0 18 0 18	10 33 1 10 33 1	11 23 11 23 11 23	13 46 13 47 13 49	13 19 13 20 13 21	10 41 10 43 10 45	17 10 17 11 17 12	2 48 2 48 2 48 2 49 2n49

Julian Day Number = 2451148.5, Delta T = 63.43 sec Ecliptic obliquity = $23^{\circ}26'14$, Nutation = - $0^{\circ}00'11$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}43'30$, Lahiri = $23^{\circ}50'31$