

Astrodienst Ephemeris Tables for the year 1988

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 1988 00:00 UT

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Day	Sid.t	0)	ğ	Ş	♂	4	ħ)∤(,	В	S.	v	Ç	ķ	Day
F 1	6 39 30	9 ප 46'31	5 I 0	14 궁 51	12≈ 1	24M56	20 Υ 14	25 × 28	27 ∡ 740	7 云 47	12 M 0	26°R42	27) 10	15 Ω 8	25°R 9	F 1
S 2	6 43 27	10°47'39	17°31	16°29	13°14	25°35	20°18	25°35	27°43	7°49	12° 1	26 ∺ 30	27° 7	15°15	25 II 5	S 2
S 3	6 47 23	11°48'48	29°52	18° 6	14°28	26°15	20°21	25°42	27°47	7°52	12° 3	26°17	27° 4	15°21	25° 2	S 3
M 4	6 51 20	12°49'56	1295 3	19°44	15°42	26°55	20°25	25°49	27°50	7°54	12° 4	26° 3	27° 1	15°28	24°58	M 4
T 5	6 55 16	13°51'04	24° 7	21°23	16°56	27°35	20°29	25°56	27°54	7°56	12° 6	25°50	26°57	15°35	24°55	T 5
W 6	6 59 13	14°52'13	6 Ω 4	23° 1	18°10	28°15	20°33	26° 2	27°58	7°59	12° 7	25°38	26°54	15°41	24°51	W 6
T 7	7 3 10	15°53'21	17°55	24°40	19°23	28°55	20°38	26° 9	28° 1	8° 1	12° 9	25°29	26°51	15°48	24°48	T 7
F 8	7 7 6	16°54'29	29°43	26°19	20°37	29°34	20°42	26°16	28° 5	8° 3	12°10	25°23	26°48	15°55	24°44	F 8
S 9	7 11 3	17°55'37	11 m y31	27°58	21°50	0 才 14	20°47	26°23	28° 8	8° 5	12°11	25°20	26°45	16° 1	24°41	S 9
S 10	7 14 59	18°56'45	23°23	29°37	23° 4	0°54	20°52	26°30	28°11	8°8	12°12	25°D19	26°41	16° 8	24°38	S 10
M11	7 18 56	19°57'54	5 ₾ 23	1≈17	24°17	1°34	20°57	26°36	28°15	8°10	12°14	25°19	26°38	16°15	24°34	M11
T 12	7 22 52	20°59'02	17°37	2°56	25°31	2°14	21° 3	26°43	28°18	8°12	12°15	25°R20	26°35	16°21	24°31	T 12
W13	7 26 49	22° 0'10	0 M .11	4°34	26°44	2°54	21° 8	26°50	28°22	8°14	12°16	25°19	26°32	16°28	24°28	W13
T 14	7 30 45	23° 1'18	13° 9	6°13	27°58	3°34	21°14	26°56	28°25	8°16	12°17	25°17	26°29	16°35	24°25	T 14
F 15	7 34 42	24° 2'26	26°35	7°50	29°11	4°14	21°20	27° 3	28°29	8°19	12°18	25°13	26°26	16°41	24°21	F 15
S 16	7 38 39	25° 3'34	10 ∡ 31	9°28	0 ∺ 24	4°54	21°26	27°10	28°32	8°21	12°19	25° 6	26°22	16°48	24°18	S 16
S 17	7 42 35	26° 4'42	24°56	11° 4	1°37	5°34	21°32	27°16	28°35	8°23	12°20	24°58	26°19	16°55	24°15	S 17
M18	7 46 32	27° 5'50	9 궁 47	12°39	2°51	6°14	21°39	27°23	28°39	8°25	12°21	24°48	26°16	17° 1	24°12	M18
T 19	7 50 28	28° 6'57	24°54	14°12	4° 4	6°54	21°45	27°29	28°42	8°27	12°22	24°39	26°13	17° 8	24° 9	T 19
W20	7 54 25	29° 8'03	10≈ 9	15°43	5°17	7°34	21°52	27°35	28°45	8°30	12°23	24°31	26°10	17°15	24° 6	W20
T 21	7 58 21	0≈ 9'09	25°20	17°12	6°30	8°14	21°59	27°42	28°48	8°32	12°24	24°25	26° 7	17°21	24° 4	T 21
F 22	8 2 18	1°10'14	10 米 17	18°39	7°43	8°54	22° 6	27°48	28°52	8°34	12°25	24°22	26° 3	17°28	24° 1	F 22
S 23	8 6 14	2°11'18	24°55	20° 1	8°55	9°35	22°13	27°54	28°55	8°36	12°26	24°D21	26° 0	17°35	23°58	S 23
S 24	8 10 11	3°12'21	9 ⋎ 7	21°20	10° 8	10°15	22°20	28° 1	28°58	8°38	12°27	24°22	25°57	17°41	23°55	S 24
M25	8 14 8	4°13'23	22°55	22°34	11°21	10°55	22°28	28° 7	29° 1	8°40	12°27	24°23	25°54	17°48	23°53	M25
T 26	8 18 4	5°14'24	6 8 19	23°43	12°34	11°35	22°36	28°13	29° 4	8°42	12°28	24°R24	25°51	17°55	23°50	T 26
W27	8 22 1	6°15'24	19°21	24°45	13°46	12°15	22°44	28°19	29° 7	8°44	12°29	24°23	25°47	18° 2	23°48	W27
T 28	8 25 57	7°16'22	2 II 5	25°41	14°59	12°55	22°52	28°25	29°10	8°46	12°30	24°20	25°44	18° 8	23°45	T 28
F 29	8 29 54	8°17'20	14°34	26°28	16°11	13°35	23° 0	28°31	29°13	8°48	12°30	24°14	25°41	18°15	23°43	F 29
S 30	8 33 50	9°18'17	26°52	27° 7	17°23	14°15	23° 8	28°37	29°16	8°51	12°31	24° 7	25°38	18°22	23°41	S 30
S 31	8 37 47	10≈19'12	8959	27≈36	18 ∺ 35	14 ×7 56	23 Y 16	28 × 143	29 × 19	8 궁 53	12 M 31	23 米 59	25) 35	18 N 28	23П39	S 31

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F 1 S 2	23 s 5 23 0		10 24 s 38 57 24 29						22 s15 22 15		23 s35 23 35		22 s16 0n5 22 15 0 5		1 s19 1 23	1 s 8 1 9			6 s 1 8 6 1 8
S 3 M 4 T 5 W 6 T 7 F 8 S 9 S 10 M11	_	27 42 4 4 2 25 39 4 2 22 28 3 5 18 24 3 13 38 2 1 1 2 47 0 1	0 24 17 49 24 5 25 23 51 50 23 35 5 23 18 12 22 59 13 22 39 10 22 17 54 21 53	2 7 17 5 2 8 17 2 2 8 17 2 8 16 4 2 8 16 1 2 7 15 5 2 5 15 2	1	2 0 27 12 0 26 21 0 26 30 0 25 40 0 25	6 48 6 50 6 52 6 54 6 56 6 58 7 0	1 16 1 16 1 16 1 16 1 15 1 15	22 16 22 16 22 16 22 17 22 17 22 17	1 7 1 7 1 7 1 7 1 7 1 7	23 36 23 36 23 36 23 36 23 36 23 36	0 10 0 10 0 10 0 10 0 10 0 10 0 10	22 15 0 5' 22 15 0 5' 22 15 0 5' 22 15 0 5' 22 14 0 5' 22 14 0 5'	7 0 18 15 54 7 0 18 15 54 7 0 18 15 55 7 0 18 15 55 7 0 17 15 55 7 0 17 15 56 7 0 17 15 56	1 29 1 34 1 40 1 44 1 48 1 50 1 51 1 52 1 52	1 11 1 13 1 14 1 15 1 16	19 23 19 20 19 17 19 15	17 3 17 3 17 3 17 3 17 3 17 3 17 3	6 18 6 18 6 18 6 17 6 17 6 17 6 17 6 17
T 12 W13 T 14 F 15 S 16	21 48 21 39 21 29 21 18 21 7	8 42 1 5 14 16 2 5 19 23 3 4 23 44 4 2 26 53 4 5	56 21 28 55 21 2 47 20 34 28 20 5 55 19 34	2 1 14 3 1 58 14 1 1 54 13 4 1 50 13 1 1 45 12 5	6 1 41 20 0 1 40 20 4 1 39 20 7 1 37 20 0 1 36 20	15 0 22 23 0 22 32 0 21 40 0 20 48 0 20	7 4 7 7 7 9 7 11 7 14	1 14 1 14 1 13 1 13 1 13	22 17 22 18 22 18 22 18 22 18	1 7 1 7 1 7 1 7 1 7	23 36 23 36 23 36 23 36 23 36 23 36	0 10 0 10 0 10 0 10 0 10	22 14 0 5 22 14 0 5 22 14 0 5 22 14 0 5 22 14 0 5	7 0 17 15 57 7 0 17 15 58 7 0 17 15 58 7 0 17 15 59 7 0 17 15 59	1 52 1 51 1 52 1 52 1 54 1 57	1 21 1 23 1 24 1 25 1 27	19 7 19 4 19 1 18 59 18 56	17 3 17 3 17 3 17 3 17 4	6 17 6 17 6 16 6 16 6 16
S 17 M18 T 19 W20 T 21 F 22 S 23	20 33 20 20	27 59 4 5 25 28 4 2 21 8 3 3 15 25 2 2 8 52 1		1 32 11 5 1 25 11 2 1 17 10 5 1 8 10 2 0 58 10	4 1 33 21 6 1 31 21 8 1 29 21 9 1 27 21 0 1 25 21	3 0 18 11 0 18 18 0 17 25 0 16 32 0 16	7 19 7 22 7 25 7 27 7 30	1 12 1 12 1 12 1 12 1 11		1 7 1 7 1 7 1 7 1 7	23 36 23 36 23 36 23 36 23 37 23 37 23 37	0 10 0 10 0 10 0 10 0 10		7 0 16 16 0 7 0 16 16 1 7 0 16 16 1 7 0 16 16 2 7 0 15 16 2	2 0 2 4 2 8 2 11 2 13 2 14 2 14		18 50 18 48 18 45	17 4 17 4 17 4 17 4 17 4	6 16 6 16 6 15 6 15 6 15 6 15 6 15
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	18 43 18 27 18 12 17 56	11 12 2 2 16 52 3 2 21 37 4 1 25 14 4 4 27 35 5 28 32 5	26 13 46	0 23 8 3 0 9 8 0n 5 7 3 0 20 7 0 36 6 3 0 53 6	2 1 17 21 2 1 14 22 2 1 12 22 1 1 9 22 1 1 7 22	52 0 14 58 0 13 4 0 12 10 0 11 16 0 11 21 0 10	7 39 7 42 7 46 7 49 7 52 7 55	1 10 1 10 1 10 1 10 1 9 1 9	22 19 22 19 22 19 22 19	1 7 1 7 1 7 1 7 1 7 1 7	23 37 23 37 23 37 23 37 23 37 23 37 23 37 23 s37	0 10 0 10 0 10 0 10 0 10 0 10	22 12 0 5° 22 12 0 5°	7 0 15 16 4 7 0 14 16 4 7 0 14 16 5 7 0 14 16 5 7 0 13 16 6 7 0 13 16 6	2 14 2 14 2 14 2 14 2 15 2 17 2 20 2 s23	1 38 1 39 1 40 1 42 1 43 1 44	18 29 18 26 18 23 18 20 18 18	17 4 17 5 17 5 17 5 17 5 17 5	6 14 6 14 6 14 6 14 6 13 6 13 6 13

Julian Day Number = 2447161.5, Delta T = 55.82 sec Ecliptic obliquity = 23°26'36, Nutation = 0°00'01, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^\circ34'22$, Lahiri = $23^\circ41'22$

FEBRUARY 1988 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(¥	В	n	v	Ç	Ŗ	Day
M 1	8 41 43	11≈20'06	2199 0	27≈55	19) (48	15 ₹ 36	23 Y 25	28 × 749	29 × 22	8 궁 55	12 M 32	23°R51	25) 32	18 Ω 35	23°R36	M 1
T 2	8 45 40	12°20'59	2Ω 55	28°R 4	21° 0	16°16	23°34	28°55	29°25	8°57	12°32	23) 42	25°28	18°42	23 II 34	T 2
W 3	8 49 37	13°21'51	14°47	28° 1	22°12	16°56	23°43	29° 1	29°28	8°58	12°33	23°35	25°25	18°48	23°32	W 3
T 4	8 53 33	14°22'42	26°36	27°47	23°23	17°37	23°52	29° 6	29°31	9° 0	12°33	23°30	25°22	18°55	23°30	T 4
F 5	8 57 30	15°23'32	8 Mp 25	27°22	24°35	18°17	24° 1	29°12	29°34	9° 2	12°33	23°27	25°19	19° 2	23°28	F 5
S 6	9 1 26	16°24'21	20°16	26°47	25°47	18°57	24°10	29°18	29°37	9° 4	12°34	23°D25	25°16	19° 8	23°27	S 6
S 7	9 5 23	17°25'08	2 ₽ 12	26° 2	26°58	19°37	24°19	29°23	29°39	9° 6	12°34	23°26	25°13	19°15	23°25	S 7
M 8	9 9 19	18°25'55	14°16	25° 8	28°10	20°18	24°29	29°29	29°42	9°8	12°34	23°27	25° 9	19°22	23°23	M 8
T 9	9 13 16	19°26'41	26°32	24° 7	29°21	20°58	24°38	29°34	29°45	9°10	12°35	23°29	25° 6	19°28	23°22	T 9
W10	9 17 12	20°27'25	9M 5	23° 1	oΥ32	21°38	24°48	29°39	29°47	9°12	12°35	23°30	25° 3	19°35	23°20	W10
T 11	9 21 9	21°28'09	21°58	21°52	1°44	22°19	24°58	29°45	29°50	9°14	12°35	23°R31	25° 0	19°42	23°19	T 11
F 12	9 25 6	22°28'52	5 ₹ 16	20°41	2°55	22°59	25° 8	29°50	29°53	9°15	12°35	23°30	24°57	19°48	23°17	F 12
S 13	9 29 2	23°29'34	19° 1	19°31	4° 6	23°39	25°18	29°55	29°55	9°17	12°35	23°28	24°53	19°55	23°16	S 13
S 14	9 32 59	24°30'14	3 ਰ 14	18°23	5°16	24°20	25°28	0 중 0	29°58	9°19	12°35	23°25	24°50	20° 2	23°15	S 14
M15	9 36 55	25°30'54	17°53	17°19	6°27	25° 0	25°39	0° 5	29°59	9°21	12°R35	23°21	24°47	20° 8	23°14	M15
T 16	9 40 52	26°31'32	2≈53	16°20	7°38	25°40	25°49	0°10	0중 2	9°22	12°35	23°17	24°44	20°15	23°13	T 16
W17	9 44 48	27°32'09	18° 5	15°27	8°48	26°21	26° 0	0°15	0° 5	9°24	12°35	23°13	24°41	20°22	23°12	W17
T 18	9 48 45	28°32'44	3 ∺ 21	14°40	9°58	27° 1	26°11	0°20	0° 7	9°26	12°35	23°11	24°38	20°28	23°11	T 18
F 19	9 52 41	29°33'18	18°28	14° 2	11° 9	27°42	26°21	0°24	0° 9	9°27	12°35	23°D10	24°34	20°35	23°10	F 19
S 20	9 56 38	0) 33′50	3 Υ19	13°31	12°19	28°22	26°32	0°29	0°12	9°29	12°35	23°10	24°31	20°42	23° 9	S 20
S 21	10 0 35	1°34'20	17°48	13° 7	13°29	29° 2	26°43	0°34	0°14	9°30	12°34	23°11	24°28	20°48	23° 9	S 21
M22	10 431	2°34'49	1849	12°51	14°39	29°43	26°54	0°38	0°16	9°32	12°34	23°13	24°25	20°55	23° 8	M22
T 23	10 8 28	3°35'15	15°24	12°43	15°48	0 궁 23	27° 6	0°43	0°18	9°33	12°34	23°14	24°22	21° 2	23° 8	T 23
W24	10 12 24	4°35'40	28°33	12°D41	16°58	1° 4	27°17	0°47	0°20	9°35	12°33	23°15	24°19	21° 8	23° 7	W24
T 25	10 16 21	5°36'03	11 I I19	12°46	18° 7	1°44	27°28	0°51	0°22	9°36	12°33	23°R15	24°15	21°15	23° 7	T 25
F 26	10 20 17	6°36'24	23°46	12°58	19°16	2°24	27°40	0°56	0°24	9°38	12°33	23°14	24°12	21°22	23° 7	F 26
S 27	10 24 14	7°36'43	5959	13°15	20°25	3° 5	27°51	1° 0	0°26	9°39	12°32	23°12	24° 9	21°28	23° 7	S 27
S 28	10 28 10	8°37'00	18° 0	13°38	21°34	3°45	28° 3	1° 4	0°28	9°41	12°32	23°10	24° 6	21°35	23°D 7	S 28
M29	10 32 7	9) 37'15	29954	14≈ 6	22 Y 43	4 る 26	28 Y 15	1る8	0 궁 30	9 る 42	12 M 31	23 米 8	24 米 3	21 Ω 42	23耳 7	M29

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M 1	17 s23	26n19 4n35	10s50 1n27	4s59 1s 1	22 s32 On 8	8n 2 1s 9	22 s20 1n 7	23 s37 0 s10	22 s11 0n57	0s12 16n 7	2 s27	1 s47	18n12	17n 6 6s12
T 2	17 6	23 24 4 (10 31 1 44	4 28 0 59	22 37 0 8	8 5 1 8	22 20 1 7	23 37 0 10	22 11 0 57	0 12 16 8	2 30	1 48	18 9	17 6 6 12
W 3	16 49	19 30 3 14	1 10 16 2 1		5 22 41 0 7	8 9 1 8	22 20 1 7	23 37 0 10	22 11 0 57	0 12 16 8	2 33	-	18 7	17 6 6 12
T 4	16 31	14 51 2 21	10 5 2 18	3 26 0 53	3 22 46 0 6	8 13 1 8	22 20 1 7	23 37 0 10	22 11 0 57	0 11 16 9	2 35	1 50	18 4	17 6 6 11
F 5	16 13				22 50 0 5	8 16 1 8			22 11 0 58	0 11 16 9	2 36	1 52	-	
S 6	15 55	4 7 0 17	9 56 2 49	2 23 0 46	5 22 55 0 5	8 20 1 7	22 20 1 7	23 37 0 10	22 11 0 58	0 11 16 10	2 37	1 53	17 58	17 7 6 11
S 7	15 37	1 s36 0 s48	9 58 3 3	1 52 0 43	22 59 0 4	8 23 1 7	22 20 1 7	23 37 0 10	22 10 0 58	0 10 16 10	2 37	1 54	17 56	17 7 6 10
M 8	15 18	7 20 1 51	10 5 3 15	1 20 0 40	23 2 0 3	8 27 1 7	22 20 1 7	23 37 0 10	22 10 0 58	0 10 16 11	2 36	1 56	17 53	17 7 6 10
T 9	14 59	12 54 2 51	10 15 3 25	0 49 0 37	23 6 0 2	8 31 1 7	22 20 1 7	23 37 0 11	22 10 0 58	0 9 16 11	2 35	1 57	17 50	17 8 6 10
W10	14 40	18 4 3 44	10 29 3 33	0 18 0 33	3 23 10 0 1	8 35 1 6	22 20 1 7	23 37 0 11	22 10 0 58	0 9 16 12	2 35	1 58	17 47	17 8 6 9
T 11	14 21	22 34 4 27	7 10 46 3 38	0n14 0 30	23 13 0 0	8 38 1 6	22 20 1 7	23 37 0 11	22 10 0 58	0 8 16 12	2 34	1 59	17 44	17 8 6 9
F 12	14 1	26 4 4 58	3 11 6 3 42	0 45 0 26	5 23 16 0s 0	8 42 1 6	22 20 1 7	23 37 0 11	22 10 0 58	0 8 16 13	2 35	2 1	17 42	17 8 6 9
S 13	13 41	28 11 5 12	2 11 27 3 42	1 17 0 23	3 23 19 0 1	8 46 1 6	22 20 1 7	23 37 0 11	22 10 0 58	0 7 16 13	2 36	2 2	17 39	17 9 6 8
S 14	13 21	28 33 5 9	11 49 3 41	1 48 0 19	23 21 0 2	8 50 1 6	22 20 1 7	23 37 0 11	22 10 0 58	0 7 16 14	2 37	2 3	17 36	17 9 6 8
M15	13 1	26 58 4 45	5 12 12 3 37	2 20 0 15	23 24 0 3	8 54 1 5	22 20 1 7	23 37 0 11	22 9 0 58	0 6 16 14	2 39	2 4	17 33	17 9 6 7
T 16	12 41	23 26 4 2	2 12 35 3 31	2 51 0 11	23 26 0 4	8 58 1 5	22 20 1 7	23 37 0 11	22 9 0 58	0 6 16 15	2 40	2 6	17 30	17 10 6 7
W17	12 20	18 17 3 1	12 58 3 24	3 23 0 7	23 28 0 5	9 2 1 5	22 20 1 7	23 37 0 11	22 9 0 58	0 5 16 15	2 41	2 7	17 27	17 10 6 7
T 18	11 59	11 57 1 47	7 13 20 3 15	3 54 0 4	23 30 0 6	9 6 1 5	22 20 1 7	23 37 0 11	22 9 0 58	0 5 16 16	2 42	2 8	17 25	17 10 6 6
F 19	11 38	4 57 0 26	5 13 40 3 5	4 25 On (23 32 0 7	9 10 1 5	22 20 1 7	23 37 0 11	22 9 0 58	0 4 16 16	2 43	2 9	17 22	17 11 6 6
S 20	11 17	2n10 0n56	5 14 0 2 54	4 56 0 4	23 33 0 7	9 14 1 4	22 20 1 7	23 37 0 11	22 9 0 58	0 4 16 17	2 43	2 11	17 19	17 11 6 6
S 21	10 55	9 1 2 12	2 14 18 2 42	5 27 0 9	23 35 0 8	9 19 1 4	22 20 1 7	23 37 0 11	22 9 0 58	0 3 16 17	2 42	2 12	17 16	17 11 6 5
M22	10 33	15 12 3 17	14 34 2 29	5 58 0 13	3 23 36 0 9	9 23 1 4	22 20 1 7	23 37 0 11	22 8 0 58	0 3 16 18	2 42	2 13	17 13	17 12 6 5
T 23	10 12	20 26 4 10	14 49 2 16	6 29 0 17	7 23 37 0 10	9 27 1 4	22 19 1 7	23 37 0 11	22 8 0 58	0 2 16 18	2 41	2 14	17 10	17 12 6 4
W24	9 50	24 30 4 47	7 15 2 2 3	6 59 0 21	23 37 0 11	9 31 1 4	22 19 1 7	23 37 0 11	22 8 0 58	0 2 16 19	2 41	2 16	17 8	17 12 6 4
T 25	9 28	27 15 5 9	15 13 1 50	7 30 0 25	23 38 0 12	9 35 1 3	22 19 1 7	23 37 0 11	22 8 0 58	0 1 16 19	2 41	2 17	17 5	17 13 6 4
F 26	9 5	28 33 5 16	5 15 23 1 37	8 0 0 30	23 38 0 13	9 40 1 3	22 19 1 7	23 37 0 11	22 8 0 58	0 1 16 20	2 41	2 18	17 2	17 13 6 3
S 27	8 43	28 26 5 8	3 15 30 1 24	8 30 0 34	23 38 0 14	9 44 1 3	22 19 1 7	23 37 0 11	22 8 0 58	0n 0 16 20	2 42	2 19	16 59	17 14 6 3
S 28	8 20	26 58 4 47	15 36 1 11	9 0 0 38	3 38 0 15	9 48 1 3	22 19 1 7	23 37 0 11	22 8 0 58	0 1 16 21	2 43	2 21	16 56	17 14 6 2
M29	7 s58	24n18 4n14	15 s40 0n58	9n30 0n43	3 23 s38 0 s16	9n53 1s 3	22 s19 1n 7	23 s37 0 s11	22 s 8 0n58	0n 1 16n21	2 s43	2 s22	16n53	17n14 6s 2

 $\label{eq:Julian Day Number = 2447192.5, Delta T = 55.86 sec} \\ Ecliptic obliquity = 23°26'36, Nutation = 0°00'03, out-of-bounds declination in red$

Ayanamsha: Fagan/Bradley = 24°34'26, Lahiri = 23°41'26

MARCH 1988 00:00 UT

LIVIV)II T 300	,													00.0	0 01
Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(并	В	S.	v	Ç	Ŗ	Day
T 1	10 36 4	10) 37'29	11 Ω 44	14≈39	23 Y 51	5ਰ 6	28 Y 27	1 る 12	0 궁 32	9 ට 43	12°R31	23°R 6	23 米 59	21 Q 48	23 I 7	T 1
W 2	10 40 0	11°37'40	23°33	15°16	25° 0	5°47	28°39	1°15	0°33	9°45	12 M 30	23 米 5	23°56	21°55	23° 7	W 2
T 3	10 43 57	12°37'49	5 Mp 23	15°57	26° 8	6°27	28°51	1°19	0°35	9°46	12°30	23° 3	23°53	22° 2	23° 7	T 3
F 4	10 47 53	13°37'56	17°16	16°42	27°16	7° 8	29° 3	1°23	0°37	9°47	12°29	23°D 3	23°50	22° 8	23° 8	F 4
S 5	10 51 50	14°38'02	29°14	17°31	28°23	7°48	29°15	1°26	0°38	9°48	12°28	23° 3	23°47	22°15	23° 8	S 5
S 6	10 55 46	15°38'06	11 ≏ 19	18°23	29°31	8°29	29°27	1°30	0°40	9°50	12°28	23° 3	23°44	22°22	23° 9	S 6
M 7	10 59 43	16°38'08	23°34	19°19	0 8 38	9° 9	29°39	1°33	0°41	9°51	12°27	23° 4	23°40	22°28	23° 9	M 7
T 8	11 3 39	17°38'08	6 M 1	20°17	1°45	9°50	29°52	1°37	0°43	9°52	12°26	23° 5	23°37	22°35	23°10	T 8
W 9	11 7 36	18°38'07	18°42	21°18	2°52	10°30	0 8 4	1°40	0°44	9°53	12°25	23° 5	23°34	22°42	23°11	W 9
T 10	11 11 33	19°38'04	1 ₹ 39	22°21	3°59	11°11	0°17	1°43	0°46	9°54	12°25	23° 5	23°31	22°48	23°11	T 10
F 11	11 15 29	20°38'00	14°55	23°27	5° 6	11°51	0°29	1°46	0°47	9°55	12°24	23° 6	23°28	22°55	23°12	F 11
S 12	11 19 26	21°37'54	28°33	24°35	6°12	12°32	0°42	1°49	0°48	9°56	12°23	23°R 6	23°24	23° 2	23°13	S 12
S 13	11 23 22	22°37'46	12 る 33	25°45	7°18	13°12	0°55	1°52	0°49	9°57	12°22	23°D 6	23°21	23° 8	23°14	S 13
M14	11 27 19	23°37'37	26°53	26°57	8°24	13°53	1° 8	1°55	0°50	9°58	12°21	23° 6	23°18	23°15	23°16	M14
T 15	11 31 15	24°37'26	11≈33	28°11	9°29	14°33	1°21	1°57	0°52	9°59	12°20	23° 6	23°15	23°22	23°17	T 15
W16	11 35 12	25°37'13	26°27	29°27	10°35	15°14	1°34	2° 0	0°53	10° 0	12°19	23° 6	23°12	23°28	23°18	W16
T 17	11 39 8	26°36'58	11 米 27	0) 45	11°40	15°54	1°47	2° 2	0°54	10° 1	12°18	23° 6	23° 9	23°35	23°19	T 17
F 18	11 43 5	27°36'42	26°26	2° 5	12°45	16°35	2° 0	2° 5	0°55	10° 2	12°17	23°R 6	23° 5	23°42	23°21	F 18
S 19	11 47 2	28°36'23	11 Y 15	3°26	13°49	17°15	2°13	2° 7	0°55	10° 2	12°16	23° 6	23° 2	23°48	23°22	S 19
S 20	11 50 58	29°36'02	25°47	4°48	14°53	17°56	2°26	2° 9	0°56	10° 3	12°15	23° 5	22°59	23°55	23°24	S 20
M21	11 54 55	0 Ƴ 35'40	9 8 56	6°13	15°57	18°36	2°39	2°11	0°57	10° 4	12°14	23° 5	22°56	24° 2	23°26	M21
T 22	11 58 51	1°35'15	23°40	7°38	17° 1	19°17	2°53	2°13	0°58	10° 5	12°13	23° 3	22°53	24° 8	23°28	T 22
W23	12 2 48	2°34'47	6 Ⅱ 57	9° 6	18° 4	19°57	3° 6	2°15	0°59	10° 5	12°12	23° 2	22°50	24°15	23°29	W23
T 24	12 6 44	3°34'18	19°50	10°34	19° 7	20°38	3°19	2°17	0°59	10° 6	12°10	23° 2	22°46	24°22	23°31	T 24
F 25	12 10 41	4°33'46	29521	12° 4	20°10	21°18	3°33	2°19	1° 0	10° 7	12° 9	23°D 1	22°43	24°28	23°33	F 25
S 26	12 14 37	5°33'12	14°34	13°36	21°12	21°59	3°46	2°20	1° 0	10° 7	12° 8	23° 2	22°40	24°35	23°35	S 26
S 27	12 18 34	6°32'36	26°35	15° 9	22°15	22°39	4° 0	2°22	1° 1	10° 8	12° 7	23° 2	22°37	24°42	23°38	S 27
M28	12 22 31	7°31'57	8Ω 27	16°43	23°16	23°20	4°13	2°23	1° 1	10° 8	12° 5	23° 3	22°34	24°48	23°40	M28
T 29	12 26 27	8°31'16	20°15	18°19	24°17	24° 0	4°27	2°25	1° 2	10° 9	12° 4	23° 5	22°30	24°55	23°42	T 29
W30	12 30 24	9°30'33	2Mp 4	19°56	25°18	24°41	4°41	2°26	1° 2	10° 9	12° 3	23° 6	22°27	25° 2	23°45	W30
T 31	12 34 20	10 ℃ 29'47	13 m 56	21 米 35	26819	25 る 21	4 8 54	2 ප 27	1る 2	10중 9	12 M 1	23 米 7	22) 24	25 Ω 8	23 Ⅱ 47	T 31

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T 1 W 2	7 s35 7 12			0n46 9n59 0 34 10 29	0n47 23 s38 0 51 23 37	0s17 0 18	9n57 10 1	1 s 2 1 2			23 s37 23 37	0s11 0 11	22 s 8 0n58 22 7 0 58		2 s44 2 45	2 s23 2 24		17n15 17 15	6s 2 6 1
T 3 F 4	6 49 6 26	5 32 0 32	15 40	0 22 10 58 0 11 11 26	0 56 23 36 1 0 23 35	0 19 0 20	10 10	1 2	22 19	1 7	23 37 23 37	0 11	22 7 0 58 22 7 0 58	0 4 16 23	2 45 2 46	2 26 2 27	16 42	17 16 17 16	6 1 6 0
S 5 S 6	6 3 5 40			0s 1 11 55 0 11 12 23	1 5 23 34 1 10 23 32	0 21 0 22	10 15 10 19	1 2 1 1			23 3723 37	0 11 0 11			2 46 2 45		16 3916 36		6 0
M 7 T 8 W 9	4 53		15 14	0 22 12 51 0 32 13 19 0 41 13 47	1 14 23 31 1 19 23 29 1 23 23 27	0 23 0 24		1 1 1 1 1 1	22 19	1 7 1 8 1 8		0 11 0 11 0 11	22 7 0 58	0 6 16 25	2 45 2 45 2 45	2 32	16 33 16 30 16 27	17 18	5 59 5 59 5 58
T 10 F 11	4 6 3 43	25 19 4 56	14 51	0 50 14 14 0 59 14 41	1 28 23 25 1 33 23 22	0 23 0 26 0 27	10 37	1 1 1 1 1	22 18	1 8 1 8	23 38	0 11	22 7 0 58	0 7 16 26	2 45 2 45 2 45	2 35	16 24	17 19	5 58 5 58
S 12 S 13	3 19 2 56		14 23	1 7 15 7 1 15 15 33	1 37 23 20 1 42 23 17	0 28 0 30		1 1 1 1		1 8 1 8	23 3823 38				2 452 45	2 372 38	16 1816 15		5 575 57
M14 T 15 W16	2 32 2 8 1 44	20 42 3 31	13 30	1 23 15 59 1 30 16 25 1 36 16 50	1 46 23 14 1 51 23 11 1 56 23 7	0 31 0 32 0 33		1 0 1 0 1 0	22 18	1 8 1 8 1 8	23 38	0 11	22 6 0 58 22 6 0 58 22 6 0 58	0 11 16 28	2 45 2 45 2 44	2 40 2 41 2 42	16 10	17 21	5 56 5 56 5 56
T 17 F 18 S 19	1 21 0 57 0 33	8 16 1 4 1 8 0n18	12 48 12 25	1 42 17 14 1 48 17 39 1 53 18 3	2 0 23 4 2 5 23 0 2 10 22 56	0 34 0 35		1 0 1 0	22 18	1 8 1 8	23 38		22 6 0 58 22 6 0 58	0 12 16 29 0 12 16 29	2 44 2 44 2 44 2 44	2 43 2 45	16 4	17 22 17 22	5 55 5 55 5 54
S 20 M21	0 10 0n14	12 38 2 52	11 35	1 58 18 26 2 3 18 50	2 14 22 52 2 19 22 47	0 38	11 24 11 28	0 59 0 59	22 18	1 8	23 38	0 11		0 14 16 30	2 45 2 45	2 47	15 55 15 52	17 23	5 54 5 54
T 22 W23	0 38	26 29 5 5	10 10	2 7 19 12 2 10 19 35	2 23 22 43 2 28 22 38	0 41		0 59 0 59	22 17	1 8	23 38	0 11	22 5 0 58 22 5 0 58	0 16 16 31	2 45 2 46	2 51		17 25	5 53 5 53
T 24 F 25 S 26	1 25 1 49 2 12		9 8	2 13 19 57 2 16 20 18 2 18 20 39	2 32 22 33 2 37 22 28 2 41 22 23	0 44	11 42 11 47 11 52		22 17 22 17 22 17	1 8 1 8 1 8	23 38	0 11	22 5 0 58 22 5 0 58 22 5 0 58	0 17 16 31	2 46 2 46 2 46	2 53	15 43 15 40 15 37	17 26	5 52 5 52 5 52
S 27 M28		21 44 3 43	7 25	2 20 21 0 2 21 21 20	2 45 22 18 2 50 22 12	0 47		0 58	22 17 22 17	1 8		0 11	22 5 0 58	0 19 16 32	2 46 2 45	2 57	15 34 15 31	17 27	5 51 5 51
T 29 W30 T 31	3 23 3 46 4n 9	-	6 10	2 22 21 39 2 23 21 59 2 s 22 22 n 17	2 54 22 7 2 58 22 1 3n 2 21 s55	0 49 0 50 0 s51	12 10	0 58	22 17 22 17 22 s17	1 8	23 38 23 38 23 s38	0 11	22 5 0 58 22 5 0 59 22s 5 0n59	0 20 16 33	2 45 2 44 2 s44	3 0	15 28 15 25 15n22	17 28	5 51 5 50 5 s50

Julian Day Number = 2447221.5, Delta T = 55.90 sec Ecliptic obliquity = 23°26'36, Nutation = 0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°34'30, Lahiri = 23°41'30

APRIL 1988 00:00 UT

AI IV	L 1300	,													00.00	0 01
Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(并	В	S.	Ω	Ç	ķ	Day
F 1	12 38 17	11 Y 28'59	25 Mp 56	23 米 15	27 8 19	26 ට 1	5 8 8	2 පි 28	1る 2	10중10	12°R 0	23°R 7	22 米 21	25 Ω 15	23耳50	F 1
S 2	12 42 13	12°28'10	8॓ 4	24°56	28°19	26°42	5°22	2°29	1° 3	10°10	11 M .59	23 ∺ 7	22°18	25°22	23°52	S 2
S 3	12 46 10	13°27'18	20°24	26°39	29°18	27°22	5°36	2°30	1° 3	10°10	11°57	23° 5	22°15	25°28	23°55	S 3
M 4	12 50 6	14°26'24	2 M .56	28°23	0 Ⅱ 17	28° 3	5°50	2°31	1° 3	10°11	11°56	23° 2	22°11	25°35	23°58	M 4
T 5	12 54 3	15°25'28	15°40	0Υ 9	1°15	28°43	6° 4	2°31	1°R 3	10°11	11°54	22°59	22° 8	25°42	24° 0	T 5
W 6	12 58 0	16°24'30	28°39	1°56	2°13	29°23	6°18	2°32	1° 3	10°11	11°53	22°55	22° 5	25°48	24° 3	W 6
T 7	13 1 56	17°23'31	11 ×7 51	3°44	3°10	0≈ 4	6°31	2°32	1° 3	10°11	11°51	22°52	22° 2	25°55	24° 6	T 7
F 8	13 5 53	18°22'30	25°17	5°34	4° 7	0°44	6°45	2°33	1° 3	10°11	11°50	22°49	21°59	26° 1	24° 9	F 8
S 9	13 9 49	19°21'27	8 궁 57	7°26	5° 4	1°25	6°59	2°33	1° 2	10°12	11°48	22°48	21°56	26° 8	24°12	S 9
S 10	13 13 46	20°20'22	22°52	9°18	6° 0	2° 5	7°14	2°33	1° 2	10°12	11°47	22°D47	21°52	26°15	24°15	S 10
M11	13 17 42	21°19'16	6≈59	11°13	6°55	2°45	7°28	2°R33	1° 2	10°12	11°45	22°48	21°49	26°21	24°18	M11
T 12	13 21 39	22°18'08	21°19	13° 9	7°50	3°25	7°42	2°33	1° 2	10°R12	11°44	22°49	21°46	26°28	24°22	T 12
W13	13 25 35	23°16'58	5) (49	15° 6	8°44	4° 6	7°56	2°33	1° 1	10°12	11°42	22°51	21°43	26°35	24°25	W13
T 14	13 29 32	24°15'46	20°24	17° 5	9°37	4°46	8°10	2°33	1° 1	10°12	11°40	22°R52	21°40	26°41	24°28	T 14
F 15	13 33 29	25°14'33	5 Υ 0	19° 5	10°30	5°26	8°24	2°32	1° 0	10°11	11°39	22°51	21°36	26°48	24°32	F 15
S 16	13 37 25	26°13'17	19°31	21° 7	11°22	6° 6	8°38	2°32	1° 0	10°11	11°37	22°49	21°33	26°55	24°35	S 16
S 17	13 41 22	27°12'00	3 8 51	23° 9	12°14	6°47	8°53	2°31	0°59	10°11	11°36	22°45	21°30	27° 1	24°39	S 17
M18	13 45 18	28°10'41	17°54	25°13	13° 5	7°27	9° 7	2°31	0°58	10°11	11°34	22°40	21°27	27° 8	24°43	M18
T 19	13 49 15	29° 9'20	1 II 36	27°19	13°55	8° 7	9°21	2°30	0°58	10°11	11°32	22°34	21°24	27°15	24°46	T 19
W20	13 53 11	0 8 7'57	14°55	29°25	14°44	8°47	9°35	2°29	0°57	10°10	11°31	22°28	21°21	27°21	24°50	W20
T 21	13 57 8	1° 6'31	27°51	1832	15°33	9°27	9°49	2°28	0°56	10°10	11°29	22°23	21°17	27°28	24°54	T 21
F 22	14 1 4	2° 5'04	109525	3°39	16°21	10° 7	10° 4	2°27	0°55	10°10	11°27	22°19	21°14	27°35	24°58	F 22
S 23	14 5 1	3° 3'34	22°41	5°47	17° 8	10°47	10°18	2°26	0°54	10°10	11°26	22°17	21°11	27°41	25° 2	S 23
S 24	14 8 58	4° 2'02	4 Ω 42	7°56	17°54	11°27	10°32	2°25	0°54	10° 9	11°24	22°D16	21° 8	27°48	25° 6	S 24
M25	14 12 54	5° 0'28	16°35	10° 4	18°39	12° 7	10°47	2°24	0°53	10° 9	11°22	22°17	21° 5	27°55	25°10	M25
T 26	14 16 51	5°58'52	28°24	12°12	19°23	12°47	11° 1	2°22	0°52	10° 8	11°21	22°18	21° 2	28° 1	25°14	T 26
W27	14 20 47	6°57'14	10 m /13	14°19	20° 6	13°27	11°15	2°21	0°50	10° 8	11°19	22°20	20°58	28° 8	25°18	W27
T 28	14 24 44	7°55'34	22° 9	16°26	20°48	14° 7	11°30	2°19	0°49	10° 7	11°17	22°R20	20°55	28°15	25°22	T 28
F 29	14 28 40	8°53'51	4 Ω 15	18°31	21°30	14°46	11°44	2°18	0°48	10° 7	11°16	22°20	20°52	28°21	25°26	F 29
S 30	14 32 37	9 8 52'07	16 ₽ 33	20 8 34	22 I I10	15≈26	11858	2 ਰ 16	0 궁 47	10궁 6	11 M .14	22) 17	20) 49	$28\Omega 28$	25Ⅲ30	S 30

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F 1 S 2	4n33 4 56	1n23 0s16 4s27 1 22	4s51 2s2 4 10 2 2	2 22n35 3n 7 1 22 53 3 11				23 s38 0 s11 23 38 0 11	22 s 5 0n59 22 5 0 59	0n22 16n33 0 22 16 34	2 s44 3 2 44 3	-	17n29 5 s49 17 29 5 49
S 3 M 4 T 5	6 4	15 39 3 22 20 31 4 10	2 44 2 1 2 0 2 1	5 23 43 3 22	21 29 0 56 21 22 0 58	12 34 0 57 12 38 0 57	22 17 1 9 22 16 1 9	23 38 0 11 23 38 0 12 23 38 0 12	22 5 0 59 22 5 0 59	0 23 16 34 0 24 16 34 0 24 16 34	2 45 3 2 46 3 2 47 3	3 6 15 10 3 7 15 7	17 30 5 48 17 31 5 48
W 6 T 7 F 8 S 9	6 27 6 50 7 12 7 35	28 35 5 14	0 28 2 0n19 2	2 23 59 3 26 8 24 14 3 30 4 24 28 3 34 9 24 42 3 37	21 7 1 0 21 0 1 2		22 16 1 9 22 16 1 9	23 38 0 12 23 38 0 12 23 38 0 12 23 38 0 12	22 5 0 59 22 5 0 59	0 25 16 35 0 25 16 35 0 26 16 35 0 27 16 35	2 51 3		17 32 5 47 17 32 5 47
S 10 M11 T 12 W13 T 14 F 15 S 16	7 57 8 19 8 41 9 3 9 25 9 46 10 7	22 10 3 46 16 59 2 44	2 46 1 4 3 37 1 4 4 28 1 3 5 20 1 2 6 13 1 2	3 25 21 3 47 6 25 33 3 50 9 25 45 3 54	20 37 1 6 20 29 1 7 20 21 1 9 20 13 1 10 20 4 1 12	13 7 0 57 13 11 0 57 13 16 0 57 13 20 0 56 13 25 0 56	22 16 1 9 22 16 1 9	23 38 0 12 23 38 0 12	22 4 0 59 22 4 0 59	0 27 16 35 0 28 16 36 0 28 16 36 0 29 16 36 0 30 16 36 0 30 16 36 0 31 16 36	2 51 3 2 51 3 2 50 3 2 50 3 2 50 3	3 13 14 52 3 15 14 49 3 16 14 46 3 17 14 43 3 18 14 40 3 20 14 37 3 21 14 34	17 34 5 46 17 34 5 46 17 34 5 45 17 35 5 45 17 35 5 45
S 17 M18 T 19 W20 T 21 F 22 S 23	11 11 11 31 11 52 12 12	21 16 4 16 25 13 4 50 27 42 5 8 28 35 5 9 27 57 4 56	8 53 0 5 9 47 0 4 10 41 0 3 11 35 0 2 12 28 0 1	6 26 25 4 5 7 26 34 4 7	19 38 1 16 19 29 1 17 19 20 1 19 19 11 1 20 19 2 1 22	13 39 0 56 13 44 0 56 13 48 0 56 13 53 0 56 13 57 0 56	22 16 1 9 22 16 1 9 22 16 1 9 22 16 1 9 22 16 1 9	23 38 0 12 23 38 0 12	22 4 0 59 22 4 0 59 22 4 0 59 22 4 0 59 22 4 0 59	0 32 16 37 0 33 16 37 0 33 16 37 0 34 16 37	2 55 3 2 57 3 2 59 3 3 1 3 3 3 3	3 22 14 31 3 23 14 28 3 25 14 25 3 26 14 22 3 27 14 19 3 28 14 15 3 30 14 12	17 37 5 44 17 37 5 44 17 38 5 43 17 38 5 43 17 38 5 43
S 24 M25 T 26 W27 T 28 F 29 S 30	12 52 13 12 13 31 13 50 14 9 14 28 14n47	18 45 3 2 14 0 2 6 8 45 1 5 3 8 0 1 2s40 1s 4	15 4 0 1 15 54 0 2 16 43 0 3 17 30 0 4 18 15 0 5	6 27 25 4 21	18 33 1 27 18 23 1 28 18 13 1 30 18 3 1 31 17 53 1 33	14 11 0 56 14 15 0 55 14 20 0 55 14 24 0 55 14 29 0 55	22 16 1 9 22 16 1 9 22 16 1 9 22 16 1 10 22 16 1 10	23 38 0 12 23 38 0 12 23 38 0 12 23 38 0 12 23 38 0 12	22 4 0 59 22 4 0 59 22 4 0 59 22 4 0 59	0 35 16 37 0 36 16 37 0 36 16 37 0 37 16 37 0 37 16 37 0 38 16 37 0 38 16 37	3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 33 14 3 3 35 14 0 3 36 13 57	17 40 5 42 17 40 5 42 17 40 5 41 17 41 5 41 17 41 5 41

 $\label{eq:Julian Day Number = 2447252.5, Delta T = 55.94 sec} \\ Ecliptic obliquity = 23°26'37, Nutation = 0°00'02, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°34'34, Lahiri = 23°41'35 \\ \\$

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(¥	Р	₽.	u	Ç	Š,	Day
S 1	14 36 33	10850'21	29 요 7	22836	22∏48	16≈ 6	12813	2°R14	0°R46	10°R 6	11°R12	22°R12	20) (46	28€35	25 Ⅲ 35	S 1
M 2	14 40 30	11°48'33	11 M 58	24°36	23°26	16°46	12°27	2 る 12	0 궁 44	10궁 5	11 M .11	22) 5	20°42	28°41	25°39	M 2
T 3	14 44 26	12°46'43	25° 5	26°33	24° 2	17°25	12°41	2°10	0°43	10° 4	11° 9	21°57	20°39	28°48	25°43	T 3
W 4	14 48 23	13°44'52	8 ∡ 127	28°28	24°37	18° 5	12°56	2° 8	0°42	10° 4	11° 7	21°48	20°36	28°55	25°48	W 4
T 5	14 52 20	14°42'59	22° 3	0Д20	25°11	18°44	13°10	2° 6	0°40	10° 3	11° 6	21°40	20°33	29° 1	25°52	T 5
F 6	14 56 16	15°41'05	5 云 49	2° 9	25°43	19°24	13°24	2° 3	0°39	10° 2	11° 4	21°33	20°30	29° 8	25°57	F 6
S 7	15 0 13	16°39'09	19°43	3°55	26°14	20° 3	13°38	2° 1	0°37	10° 1	11° 2	21°28	20°27	29°15	26° 1	S 7
S 8	15 4 9	17°37'12	3≈44	5°37	26°44	20°43	13°53	1°59	0°36	10° 1	11° 0	21°25	20°23	29°21	26° 6	S 8
M 9	15 8 6	18°35'13	17°50	7°16	27°12	21°22	14° 7	1°56	0°34	10° 0	10°59	21°D24	20°20	29°28	26°11	M 9
T 10	15 12 2	19°33'13	1) (59	8°52	27°38	22° 1	14°21	1°53	0°33	9°59	10°57	21°24	20°17	29°35	26°15	T 10
W11	15 15 59	20°31'12	16°10	10°23	28° 2	22°41	14°36	1°51	0°31	9°58	10°55	21°R25	20°14	29°41	26°20	W11
T 12	15 19 56	21°29'10	0Y22	11°52	28°25	23°20	14°50	1°48	0°29	9°57	10°54	21°25	20°11	29°48	26°25	T 12
F 13	15 23 52	22°27'06	14°32	13°16	28°46	23°59	15° 4	1°45	0°28	9°56	10°52	21°23	20° 7	29°54	26°30	F 13
S 14	15 27 49	23°25'01	28°37	14°37	29° 6	24°38	15°18	1°42	0°26	9°55	10°50	21°18	20° 4	0 m y 1	26°35	S 14
S 15	15 31 45	24°22'54	12 8 34	15°53	29°23	25°17	15°33	1°39	0°24	9°54	10°49	21°11	20° 1	0° 8	26°40	S 15
M16	15 35 42	25°20'47	26°19	17° 6	29°39	25°56	15°47	1°36	0°22	9°53	10°47	21° 1	19°58	0°14	26°45	M16
T 17	15 39 38	26°18'37	9 Ⅱ 47	18°15	29°52	26°35	16° 1	1°33	0°20	9°52	10°46	20°51	19°55	0°21	26°49	T 17
W18	15 43 35	27°16'27	22°57	19°20	0 න 3	27°14	16°15	1°30	0°18	9°51	10°44	20°40	19°52	0°28	26°54	W18
T 19	15 47 31	28°14'14	59548	20°21	0°13	27°52	16°29	1°26	0°17	9°50	10°42	20°30	19°48	0°34	27° 0	T 19
F 20	15 51 28	29°12'01	18°20	21°17	0°20	28°31	16°44	1°23	0°15	9°49	10°41	20°21	19°45	0°41	27° 5	F 20
S 21	15 55 25	0Ⅱ 9'45	0 Ω 35	22° 9	0°24	29° 9	16°58	1°20	0°13	9°48	10°39	20°15	19°42	0°48	27°10	S 21
S 22	15 59 21	1° 7'28	12°36	22°57	0°27	29°48	17°12	1°16	0°11	9°47	10°38	20°11	19°39	0°54	27°15	S 22
M23	16 3 18	2° 5'10	24°29	23°41	0°R27	0 ∺ 26	17°26	1°13	0° 9	9°45	10°36	20°10	19°36	1° 1	27°20	M23
T 24	16 7 14	3° 2'50	6 M p18	24°20	0°25	1° 4	17°40	1° 9	0° 6	9°44	10°35	20°D 9	19°33	1° 8	27°25	T 24
W25	16 11 11	4° 0'28	18° 8	24°55	0°20	1°42	17°54	1° 6	0° 4	9°43	10°33	20°R10	19°29	1°14	27°30	W25
T 26	16 15 7	4°58'05	0 º 5	25°25	0°13	2°20	18° 8	1° 2	0° 2	9°42	10°32	20° 9	19°26	1°21	27°36	T 26
F 27	16 19 4	5°55'40	12°15	25°50	0° 4	2°58	18°22	0°58	0° 0	9°40	10°30	20° 7	19°23	1°28	27°41	F 27
S 28	16 23 0	6°53'14	24°40	26°11	29∏52	3°36	18°36	0°54	29 × 758	9°39	10°29	20° 3	19°20	1°34	27°46	S 28
S 29	16 26 57	7°50'46	7 M 26	26°27	29°37	4°14	18°50	0°50	29°56	9°38	10°27	19°56	19°17	1°41	27°51	S 29
M30	16 30 54	8°48'18	20°32	26°38	29°20	4°52	19° 4	<u>0°46</u>	29°54	<u>9</u> °37	10°26	19°47	19°13	1°48	27°57	M30
T 31	16 34 50	9 Ⅱ 45'48	3 ∡ 759	26∏45	29耳 1	5 ∺ 29	19 8 17	0 궁 43	29 × 751	9 궁 35	10 M 24	19 米 36	19 米 10	1 m 54	28 II 2	T 31

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S 1 M 2	15n 5 15 23			19n40 20 19		27n38 27 40		17 s32 17 22		14n38 14 42		22 s16 22 16		23 s38 23 39	0s12 0 12	22s 4	0n59 0 59	0n39 16			13n48 13 45	17n42 5 s4 17 42 5 4	- 1
T 3				20 56				17 12		14 46		22 16		23 39	0 12		0 59	0 39 16			13 42		
W 4	15 58	26 37	4 58	21 30	1 44	27 43	4 24	17 1	1 41	14 51	0 55	22 16	1 10	23 39	0 12	22 5	0 59	0 40 16	5 37 3 1	3 43	13 38	17 43 5 4	10
T 5	16 15	-		22 2	1 51	27 44	4 23	16 50	1 43	14 55		22 16		23 39			0 59	0 40 16	5 37 3 1		13 35		,9
F 6				22 32				16 39		15 0		22 16		23 39			0 59	0 41 16			13 32		-
S 7	16 49	26 27	4 30	22 59	2 5	27 44	4 21	16 28	1 46	15 4	0 55	22 16	1 10	23 39	0 12	22 5	0 59	0 41 16	5 37 3 2	3 47	13 29	17 44 5 3	9
S 8	17 5	23 0	3 47	23 23	2 10	27 44	4 20	16 17	1 48	15 8	0 55	22 16	1 10	23 39	0 12	22 5	0 59	0 42 16	5 37 3 2	4 3 48	13 26	17 44 5 3	9
M 9	17 22	18 11	2 50	23 45	2 15	27 43	4 18	16 6	1 49	15 12	0 55	22 16	1 10	23 39	0 12	22 5	0 59	0 42 16	5 36 3 2	5 3 50	13 23	17 45 5 3	,9
T 10			1 42				4 16	15 55		15 17		22 16		23 39				0 42 16			13 20		8,
W11	17 53			24 21				15 44		15 21		22 16		23 39			0 59	0 43 16			13 17		- 1
T 12	18 8			24 36	-			15 33		15 25		22 16		23 39			0 59	0 43 16				17 46 5 3	-
F 13	18 23			24 49				15 21		15 29		22 16		23 39	0 12		0 59	0 43 16			13 10		- 1
S 14	18 38	13 52	3 5	24 59	2 26	27 31	4 4	15 10	1 58	15 34	0 55	22 16	1 10	23 39	0 12	22 5	0 59	0 44 16	5 36 3 2	/ 3 56	13 7	17 46 5 3	8
S 15	18 52	19 23	3 58	25 7	2 26	27 27	4 1	14 58		15 38	0 54	22 16	1 10	23 39	0 12	22 5	0 59	0 44 16	5 36 3 3	0 3 57	13 4	17 47 5 3	8
M16	19 6	23 48	4 36	25 13	2 25	27 23	3 57	14 47		15 42	0 54	22 16	1 10	23 39	0 12	22 5	1 0	0 44 16	5 35 3 3	4 3 58	13 1	17 47 5 3	.7
T 17			4 57					14 35		15 46	0 54	-		23 39	0 12		1 0		5 35 3 3		12 58		.7
W18				25 20				14 24		15 50		22 16		23 39	0 12				5 35 3 4		12 55		
T 19				25 20				14 12		15 54		22 16		23 39	0 12			0 45 16			12 52		
F 20				25 19				14 0		15 58		22 16		23 39	0 12			0 45 16			12 48		
S 21	20 11	23 48	3 52	25 17	2 4	26 56	3 30	13 48	2 10	16 2	0 54	22 16	1 10	23 39	0 12	22 5	1 0	0 46 16	5 34 3 5	2 4 5	12 45	17 48 5 3	7
S 22	20 23	20 0	3 6	25 12	1 57	26 50	3 23	13 37	2 12	16 6	0 54	22 17	1 10	23 39	0 12	22 6	1 0	0 46 16	5 34 3 5	3 4 6	12 42	17 48 5 3	.7
M23		-	2 12		1 49	26 43		13 25		16 10		22 17		23 39	-	-	1 0	0 46 16			12 39		6
T 24			1 13					13 13		16 14		22 17		23 39			1 0	0 46 16			12 36		- 1
W25	20 57	-		24 51	-			13 1		16 18		22 17		23 39		-		0 46 16			12 33		- 1
T 26	_			24 42			-	12 49		16 22		22 17		23 39	-	-	-	0 47 16			12 30		- 1
F 27	21 18			24 31				12 37		16 26		22 17		23 39			-	0 47 16			12 26		-
S 28	21 28	12 14	2 52	24 19	0 56	26 0	2 33	12 25	2 23	16 30	0 54	22 17	1 10	23 39	0 12	22 6	1 0	0 47 16	5 33 3 5	6 4 13	12 23	17 50 5 3	6
S 29		17 30	3 43	24 7	0 43	25 50	2 23	12 13		16 33	0 54	22 17	1 10	23 39			1 0	0 47 16	5 32 3 5			17 50 5 3	6
M30	-	22 6	4 23	23 53	0 29	25 39	2 13	12 1		16 37		22 17		23 39	-	-	-	0 47 16	5 32 4	-	-	17 50 5 3	6
T 31	21n55	25 s41	4 s 5 0	23n38	0n14	25n28	2n 2	11 s49	2 s29	16n41	0 s54	22 s17	1n 9	23 s39	0s12	22 s 6	1n 0	0n47 16	6n32 4s	7 4s17	12n14	17n50 5 s3	6

Julian Day Number = 2447282.5, Delta T = 55.98 sec Ecliptic obliquity = 23°26'36, Nutation = 0°00'01, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°34'38, Lahiri = 23°41'39

JUNE 1988 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(¥	Р	ß	Ω	Ç	Ŷ,	Day
W 1	16 38 47	10 Ⅱ 43'17	17 ×7 45	26°R47	28°R40	6 ¥ 7	19831	0°R39	29°R49	9°R34	10°R23	19°R25	19 米 7	2 m) 1	28耳 7	W 1
T 2	16 42 43	11°40'46	1 る 47	26∏45	28 I I16	6°44	19°45	0 궁 35	29 х 47	9 る 32	10ML22	19) 13	19° 4	2° 8	28°13	T 2
F 3	16 46 40	12°38'13	15°59	26°38	27°51	7°21	19°59	0°30	29°45	9°31	10°20	19° 3	19° 1	2°14	28°18	F 3
S 4	16 50 36	13°35'40	0≈16	26°26	27°23	7°58	20°12	0°26	29°42	9°30	10°19	18°56	18°58	2°21	28°24	S 4
S 5	16 54 33	14°33'05	14°34	26°11	26°53	8°35	20°26	0°22	29°40	9°28	10°17	18°51	18°54	2°28	28°29	S 5
M 6	16 58 29	15°30'30	28°49	25°52	26°22	9°12	20°40	0°18	29°38	9°27	10°16	18°49	18°51	2°34	28°35	M 6
T 7	17 2 26	16°27'55	12 米 59	25°30	25°49	9°49	20°53	0°14	29°35	9°25	10°15	18°49	18°48	2°41	28°40	T 7
W 8	17 6 23	17°25'19	27° 3	25° 4	25°15	10°25	21° 7	0°10	29°33	9°24	10°14	18°49	18°45	2°47	28°46	W 8
T 9	17 10 19	18°22'42	11 Y 0	24°36	24°40	11° 2	21°20	0° 5	29°30	9°22	10°12	18°48	18°42	2°54	28°51	T 9
F 10	17 14 16	19°20'04	24°50	24° 6	24° 4	11°38	21°34	0° 1	29°28	9°21	10°11	18°45	18°39	3° 1	28°57	F 10
S 11	17 18 12	20°17'27	8 8 31	23°34	23°27	12°14	21°47	29 .7 57	29°26	9°19	10°10	18°39	18°35	3° 7	29° 2	S 11
S 12	17 22 9	21°14'49	22° 3	23° 1	22°50	12°50	22° 0	29°52	29°23	9°18	10° 9	18°31	18°32	3°14	29° 8	S 12
M13	17 26 5	22°12'10	5 Ⅱ 24	22°27	22°12	13°26	22°14	29°48	29°21	9°16	10°8	18°20	18°29	3°21	29°13	M13
T 14	17 30 2	23° 9'30	18°32	21°53	21°35	14° 2	22°27	29°44	29°18	9°15	10° 7	18° 8	18°26	3°27	29°19	T 14
W15	17 33 58	24° 6'50	19526	21°20	20°57	14°37	22°40	29°39	29°16	9°13	10° 5	17°55	18°23	3°34	29°24	W15
T 16	17 37 55	25° 4'10	14° 4	20°48	20°21	15°12	22°53	29°35	29°14	9°12	10° 4	17°43	18°20	3°41	29°30	T 16
F 17	17 41 52	26° 1'29	26°27	20°18	19°44	15°47	23° 6	29°30	29°11	9°10	10° 3	17°33	18°16	3°47	29°35	F 17
S 18	17 45 48	26°58'46	8 Ω 37	19°50	19° 9	16°22	23°19	29°26	29° 9	9° 9	10° 2	17°25	18°13	3°54	29°41	S 18
S 19	17 49 45	27°56'04	20°35	19°25	18°35	16°57	23°32	29°21	29° 6	9° 7	10° 1	17°20	18°10	4° 1	29°47	S 19
M20	17 53 41	28°53'20	2Mp26	19° 2	18° 3	17°31	23°45	29°17	29° 4	9° 6	10° 0	17°17	18° 7	4° 7	29°52	M20
T 21	17 57 38	29°50'36	14°14	18°44	17°31	18° 6	23°58	29°13	29° 1	9° 4	9°59	17°D16	18° 4	4°14	29°58	T 21
W22	18 1 34	09547'51	26° 4	18°29	17° 2	18°40	24°11	29° 8	28°59	9° 2	9°59	17°R17	18° 0	4°21	0 න 3	W22
T 23	18 5 31	1°45'05	8 쇼 1	18°18	16°34	19°14	24°24	29° 4	28°56	9° 1	9°58	17°16	17°57	4°27	0° 9	T 23
F 24	18 9 27	2°42'19	20°11	18°11	16° 9	19°47	24°36	28°59	28°54	8°59	9°57	17°15	17°54	4°34	0°15	F 24
S 25	18 13 24	3°39'32	2 M 38	18°D 9	15°45	20°21	24°49	28°55	28°52	8°58	9°56	17°12	17°51	4°41	0°20	S 25
S 26	18 17 21	4°36'44	15°28	18°12	15°23	20°54	25° 1	28°50	28°49	8°56	9°55	17° 6	17°48	4°47	0°26	S 26
M27	18 21 17	5°33'57	28°43	18°19	15° 4	21°27	25°14	28°46	28°47	8°54	9°54	16°59	17°45	4°54	0°31	M27
T 28	18 25 14	6°31'08	12 × 23	18°31	14°47	22° 0	25°26	28°42	28°44	8°53	9°54	16°49	17°41	5° 0	0°37	T 28
W29	18 29 10	7°28'20	26°26	18°48	14°33	22°32	25°39	28°37	28°42	8°51	9°53	16°38	17°38	5° 7	0°42	W29
T 30	18 33 7	8925'31	10 る 49	19 Ⅱ 10	14∏21	23) 4	25 8 51	28 × 33	28 ~ 39	8 국 49	9 M 52	16) €28	17) 35	5 M 14	09548	T 30

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W 1	22n 3		s 1 23r	-	0 s 1	25n17	1n51	11 s37	2 s 3 1	16n45	0 s54	22 s17		23 s39		22 s 6	1n 0	0n47 16n31	4 s12	4 s 1 8		17n50	5 s36
T 2			54 23			-		11 25		16 48		22 17		23 39			1 0	0 48 16 31		4 20		17 50	5 36
F 3	-		29 22			24 52		11 12		16 52		22 17		23 39				0 48 16 31	1	4 21		17 50	5 36
S 4	22 26	23 47 3	47 22	33	0 51	24 39	1 14	11 0	2 37	16 56	0 54	22 17	1 9	23 39	0 13	22 7	1 0	0 48 16 30	4 23	4 22	12 1	17 50	5 36
S 5	22 33	19 11 2	50 22	16	1 8	24 25	1 1	10 48	2 39	16 59	0 54	22 17	1 9	23 39	0 13	22 7	1 0	0 48 16 30	4 25	4 23	11 58	17 51	5 35
M 6	22 39	13 31 1	44 21	58	1 25	24 11	0 48	10 36	2 41	17 3	0 54	22 17	1 9	23 39	0 13	22 7	1 0	0 48 16 30	4 25	4 25	11 55	17 51	5 35
T 7	22 45	7 10 0	31 21	40				10 24		17 7		22 17		23 39			1 0	0 48 16 29	4 26	-		17 51	5 35
W 8	22 51		n43 21			-		10 12		17 10		22 17		23 39			1 0	0 48 16 29	4 26		11 48		5 35
T 9	22 56		54 21			23 26		10 0		17 14		22 17		23 39			1 0	0 48 16 28			11 45		5 35
F 10	23 1		58 20		2 33		0s 8	9 48		17 17		22 18		23 39				0 48 16 28			11 42		5 35
S 11	23 5	17 59 3	51 20	29	2 49	22 55	0 22	9 36	2 51	17 21	0 54	22 18	1 9	23 39	0 13	22 7	1 0	0 48 16 28	4 29	4 31	11 39	17 51	5 35
S 12	23 9	22 37 4	29 20	12	3 4	22 39	0 36	9 24		17 24	0 54	22 18	1 9	23 39	0 13	22 7	1 0	0 48 16 27	4 33	4 32	11 35	17 51	5 35
M13	23 13	26 0 4	53 19	56	3 18	22 23	0 50	9 12	2 55	17 27	0 54	22 18	1 9	23 39	0 13	22 8	1 0	0 48 16 27	4 37	4 33	11 32	17 51	5 35
		27 56 5				22 6	1 4	9 0		17 31		22 18		23 39			1 0	0 48 16 26	4 42		11 29		5 35
W15	23 19		52 19	27	3 43	21 50	1 18	8 48	2 59	17 34	0 54	22 18	1 9	23 39		22 8	1 0	0 47 16 26	4 47		11 26		5 35
T 16	23 21		30 19			21 34	1 32	8 37	3 1	17 37	0 54	-	1 9				1 0	0 47 16 26	4 51		11 23		5 35
F 17	23 23		55 19			21 18	1 45	8 25		17 41	0 54			23 39	0 13		1 0	0 47 16 25			11 19		5 36
S 18	23 25	21 9 3	10 18	52	4 12	21 2	1 59	8 13	3 5	17 44	0 54	22 18	1 9	23 39	0 13	22 8	1 0	0 47 16 25	4 58	4 40	11 16	17 51	5 36
S 19	23 26	16 47 2	16 18	44	4 18	20 46	2 11	8 2	3 7	17 47	0 54	22 18	1 8	23 39	0 13	22 8	1 0	0 47 16 24	5 0	4 41	11 13	17 51	5 36
M20	23 26	11 49 1	18 18	36	4 24	20 31	2 24	7 50	3 9	17 50	0 54	22 18	1 8	23 39	0 13	22 8	1 0	0 47 16 24	5 1	4 42	11 10	17 51	5 36
	23 27	6 27 0	16 18	31	4 28	20 16	2 36	7 38		17 54		22 18		23 39			1 0	0 47 16 23	5 2	4 43	11 6	17 51	5 36
W22	23 26		s47 18				2 47	7 27		17 57		22 18		23 39				0 46 16 23		4 45		17 51	5 36
1	23 26		48 18			19 48	2 58	7 16	3 15			22 18		23 39			1 0	0 46 16 22			11 0		5 36
F 24	23 25		45 18	-		19 35	3 9	7 4	3 17			22 18		23 39			1 0	0 46 16 22			10 57		5 36
S 25	23 24	15 47 3	36 18	26	4 30	19 23	3 19	6 53	3 20	18 6	0 54	22 18	1 8	23 39	0 13	22 9	1 0	0 46 16 21	5 3	4 48	10 54	17 51	5 36
S 26	23 22	20 35 4	18 18	29	4 27	19 11	3 28	6 42	3 22	18 9	0 54	22 18	1 8	23 39	0 13	22 9	1 0	0 46 16 21	5 6	4 49	10 50	17 50	5 36
M27	23 20	24 33 4	47 18	34	4 23	19 0	3 37	6 31	3 24	18 12	0 54	22 18	1 8	23 39	0 13	22 9	1 0	0 45 16 20	5 9	4 51	10 47	17 50	5 36
T 28		27 16 5	2 18	40	4 18	18 50	3 46	6 20	3 26	18 15	0 54	22 19	1 8	23 39	0 13	22 9	1 0	0 45 16 20	5 12	4 52	10 44	17 50	5 36
	23 14		58 18	47	4 12	18 41	3 54	6 9		18 18		22 19		23 39				0 45 16 19	5 16			17 50	5 36
T 30	23n10	27 s35 4s	s36 18r	n56	4s 5	18n32	4s 1	5 s58	3 s 3 0	18n20	0 s54	22 s 19	1n 7	23 s39	0s13	22 s 9	1n 0	0n44 16n19	5 s20	4 s 5 4	10n37	17n50	5 s37

Julian Day Number = 2447313.5, Delta T = 56.02 sec Ecliptic obliquity = $23^{\circ}26'35$, Nutation = $0^{\circ}00'02$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}34'42$, Lahiri = $23^{\circ}41'43$

JULY 1988 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(¥	Р	S.	ß	Ç	ķ	Day
F 1	18 37 3	99522'42	25 る 25	19 Ⅲ 37	14°R11	23) 36	26 8 3	28°R29	28°R37	8°R48	9°R52	16°R19	17) 32	5 m ₂ 0	0954	F 1
S 2	18 41 0	10°19'53	10≈ 7	20° 8	14耳 3	24° 8	26°15	28 × 724	28 × 35	8 국 46	9 M .51	16 ∺ 13	17°29	5°27	0°59	S 2
S 3	18 44 57	11°17'04	24°48	20°44	13°59	24°39	26°27	28°20	28°32	8°45	9°50	16° 9	17°26	5°34	1° 5	S 3
M 4	18 48 53	12°14'16	9) (21	21°25	13°56	25°11	26°39	28°16	28°30	8°43	9°50	16° 7	17°22	5°40	1°10	M 4
T 5	18 52 50	13°11'27	23°43	22°11	13°D56	25°41	26°51	28°12	28°28	8°41	9°49	16°D 7	17°19	5°47	1°16	T 5
W 6	18 56 46	14° 8'39	7 Υ 51	23° 2	13°58	26°12	27° 3	28° 8	28°25	8°40	9°49	16°R 8	17°16	5°54	1°21	W 6
T 7	19 0 43	15° 5'51	21°45	23°56	14° 2	26°42	27°15	28° 3	28°23	8°38	9°48	16° 8	17°13	6° 0	1°27	T 7
F 8	19 4 39	16° 3'03	5 8 24	24°56	14° 9	27°12	27°26	27°59	28°21	8°37	9°48	16° 6	17°10	6° 7	1°32	F 8
S 9	19 8 36	17° 0'16	18°50	26° 0	14°18	27°42	27°38	27°55	28°18	8°35	9°48	16° 2	17° 6	6°14	1°38	S 9
S 10	19 12 32	17°57'29	2 I I 2	27° 8	14°29	28°11	27°49	27°51	28°16	8°33	9°47	15°56	17° 3	6°20	1°43	S 10
M11	19 16 29	18°54'43	15° 2	28°21	14°41	28°40	28° 1	27°47	28°14	8°32	9°47	15°48	17° 0	6°27	1°49	M11
T 12	19 20 26	19°51'57	27°49	29°38	14°56	29° 9	28°12	27°43	28°12	8°30	9°47	15°38	16°57	6°34	1°54	T 12
W13	19 24 22	20°49'12	109524	0959	15°13	29°37	28°23	27°39	28° 9	8°29	9°46	15°29	16°54	6°40	2° 0	W13
T 14	19 28 19	21°46'26	22°46	2°24	15°32	0 Υ 5	28°34	27°35	28° 7	8°27	9°46	15°19	16°51	6°47	2° 5	T 14
F 15	19 32 15	22°43'41	4 Ω 58	3°54	15°53	0°32	28°46	27°32	28° 5	8°25	9°46	15°11	16°47	6°53	2°10	F 15
S 16	19 36 12	23°40'57	16°59	5°27	16°15	0°59	28°56	27°28	28° 3	8°24	9°46	15° 6	16°44	7° 0	2°16	S 16
S 17	19 40 8	24°38'12	28°52	7° 4	16°39	1°26	29° 7	27°24	28° 1	8°22	9°46	15° 2	16°41	7° 7	2°21	S 17
M18	19 44 5	25°35'28	10 m /40	8°45	17° 4	1°52	29°18	27°21	27°59	8°21	9°46	15°D 0	16°38	7°13	2°26	M18
T 19	19 48 1	26°32'44	22°27	10°29	17°31	2°18	29°29	27°17	27°57	8°19	9°46	15° 1	16°35	7°20	2°32	T 19
W20	19 51 58	27°30'00	4 Ω 16	12°17	18° 0	2°43	29°39	27°13	27°55	8°18	9°D46	15° 2	16°32	7°27	2°37	W20
T 21	19 55 55	28°27'16	16°12	14° 8	18°30	3° 8	29°50	27°10	27°53	8°16	9°46	15° 3	16°28	7°33	2°42	T 21
F 22	19 59 51	29°24'33	28°21	16° 1	19° 2	3°32	0 II 0	27° 7	27°51	8°15	9°46	15°R 4	16°25	7°40	2°47	F 22
S 23	20 3 48	0 Ω 21'50	10 M 48	17°58	19°35	3°56	0°10	27° 3	27°49	8°13	9°46	15° 3	16°22	7°47	2°53	S 23
S 24	20 7 44	1°19'08	23°36	19°56	20° 9	4°20	0°20	27° 0	27°47	8°12	9°46	15° 1	16°19	7°53	2°58	S 24
M25	20 11 41	2°16'25	6 ₹ 51	21°57	20°44	4°43	0°30	26°57	27°45	8°10	9°46	14°57	16°16	8° 0	3° 3	M25
T 26	20 15 37	3°13'44	20°33	24° 0	21°21	5° 5	0°40	26°54	27°43	8° 9	9°46	14°52	16°12	8° 7	3° 8	T 26
W27	20 19 34	4°11'02	4 궁 42	26° 4	21°59	5°28	0°50	26°51	27°41	8° 8	9°46	14°46	16° 9	8°13	3°13	W27
T 28	20 23 30	5° 8'22	19°15	28° 8	22°38	5°49	1° 0	26°48	27°40	8° 6	9°47	14°40	16° 6	8°20	3°18	T 28
F 29	20 27 27	6° 5'42	4≈ 6	0Ω14	23°18	6°10	1° 9	26°45	27°38	8° 5	9°47	14°34	16° 3	8°27	3°23	F 29
S 30	20 31 24	7° 3'02	19° 7	2°20	23°59	6°30	1°19	26°42	27°36	8° 3	9°47	14°31	16° 0	8°33	3°28	S 30
S 31	20 35 20	8 0 0'24	4 ₩ 8	4 Ω 26	24∏41	6 ℃ 50	1∏28	26 ₮ 39	27 × 34	8 ට 2	9 M .48	14 米 29	15 ¥ 57	8 M 40	3933	S 31

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F 1 S 2	23n 7 23 2		6 19n 5 3s 9 19 16 3	57 18n24 4s 8 49 18 17 4 14					22 s10 1n 0 22 10 1 0			4 s 56 10 n 3 4 5 7 10 3 1	17n50 5s37 17 50 5 37
S 3 M 4 T 5	22 58 22 53 22 47	8 37 0 3 1 53 0n4	6 19 41 3 0 19 54 3	29 18 5 4 25 19 18 0 4 30	5 16 3 39 5 5 3 41	18 32 0 55 18 34 0 55	22 19 1 7 22 19 1 7	23 39 0 13 23 39 0 13	22 10 1 0	0 43 16 17 0 43 16 16	5 29 5 29	5 1 10 2	17 49 5 37 17 49 5 37
W 6 T 7 F 8 S 9	22 42 22 35 22 29 22 22	11 14 2 5 16 58 3 5	8 20 23 2 2 20 37 2	7 17 56 4 34 56 17 53 4 38 44 17 50 4 42 31 17 48 4 45	4 45 3 45 4 35 3 47	18 40 0 55 18 42 0 55	22 19 1 7 22 19 1 7	23 39 0 13 23 39 0 13 23 39 0 13 23 39 0 13	22 10 1 0	0 42 16 15 0 42 16 14	5 28 5 29	5 3 10 13 5 4 10 13	3 17 49 5 37 5 17 49 5 38 17 48 5 38 17 48 5 38
S 10 M11 T 12 W13 T 14 F 15	21 50 21 41 21 32	27 39 5 28 24 4 5 27 38 4 3 25 31 4 22 14 3 1	5 21 21 2 8 21 34 1 7 21 48 1 3 22 0 1 8 22 11 1	18 17 47 4 47 5 17 46 4 50 52 17 46 4 52 39 17 46 4 53 25 17 47 4 54 12 17 48 4 55	4 6 3 54 3 57 3 56 3 47 3 58 3 38 4 0 3 29 4 2	18 50 0 55 18 52 0 55 18 55 0 55 18 57 0 55 18 59 0 55	22 19 1 6 22 19 1 6 22 19 1 6 22 19 1 6 22 19 1 6	23 39 0 13 23 39 0 13 23 39 0 13 23 39 0 13 23 39 0 13	22 11 1 0 22 11 1 0 22 11 0 59 22 11 0 59	0 40 16 13 0 40 16 12 0 39 16 12 0 39 16 11 0 38 16 11	5 36 5 40 5 44 5 47 5 50	5 8 10 1 5 9 9 58 5 11 9 53 5 12 9 52 5 13 9 48	3 17 47 5 38 5 17 47 5 39 2 17 47 5 39 3 17 46 5 39
S 16 S 17 M18 T 19 W20 T 21 F 22 S 23	21 12 21 2 20 51 20 40 20 28 20 17	13 13 1 2 7 56 0 2 2 23 0s4 3 s16 1 4 8 51 2 4 14 12 3 3	6 22 30 0 3 22 37 0 0 22 42 0 2 22 45 0 1 22 47 0n 3 22 45 0	59 17 50 4 56 45 17 52 4 56 32 17 54 4 56 20 17 57 4 56 7 18 0 4 55 5 18 3 4 54 17 18 7 4 53 28 18 11 4 52	3 12 4 6 3 4 4 9 2 55 4 11 2 47 4 13 2 39 4 15 2 32 4 17	19 4 0 55 19 6 0 55 19 9 0 55 19 11 0 55 19 13 0 55 19 15 0 56	22 20 1 6 22 20 1 5 22 20 1 5	23 39 0 13 23 39 0 13 23 39 0 13 23 39 0 13 23 38 0 13 23 38 0 13	22 12 0 59 22 12 0 59 22 12 0 59	0 38 16 10 0 37 16 9 0 37 16 9 0 36 16 8 0 36 16 8 0 35 16 7 0 35 16 7 0 34 16 6	5 54 5 54 5 54 5 54 5 53 5 53	5 15 9 42 5 17 9 39 5 18 9 33 5 19 9 32 5 20 9 29 5 22 9 23	5 17 46 5 39 2 17 46 5 40 0 17 46 5 40 5 17 45 5 40 2 17 45 5 40 0 17 44 5 41 5 17 44 5 41 2 17 44 5 41
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	19 39 19 26 19 13 18 59 18 45 18 31	26 30 5 28 14 5 28 13 4 5 26 17 4 1 22 30 3 2 17 13 2 1	7 22 26 0 8 22 15 0 2 22 1 1 6 21 44 1 2 21 24 1 4 21 2 1	38 18 15 4 51 48 18 19 4 49 57 18 23 4 47 5 18 28 4 45 13 18 32 4 43 20 18 36 4 40 26 18 41 4 38 31 18n45 4s35	2 2 4 25 1 56 4 28 1 49 4 30 1 42 4 32 1 36 4 34	19 21 0 56 19 23 0 56 19 25 0 56 19 27 0 56 19 29 0 56 19 31 0 56	22 20 1 4 22 20 1 4 22 20 1 4 22 20 1 4 22 20 1 4	23 38 0 13 23 38 0 13	22 12 0 59 22 13 0 59	0 34 16 5 0 33 16 5 0 32 16 4 0 32 16 4 0 31 16 3 0 30 16 2 0 30 16 2	5 56 5 58 6 0 6 3 6 5 6 6	5 25 9 16 5 27 9 12 5 28 9 9 5 29 9 6 5 30 9 2 5 31 8 59	17 43 5 41 5 17 43 5 42 2 17 43 5 42 17 42 5 42 17 42 5 42 17 41 5 43 17 41 5 43 17 740 5 843

 $\label{eq:Julian Day Number = 2447343.5, Delta T = 56.06 sec} \\ Ecliptic obliquity = 23°26'35, Nutation = 0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°34'47, Lahiri = 23°41'47 \\$

AUGUST 1988 00:00 UT

Audi	JJ. 170	,0													00.00	0.
Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)∤(¥	В	₽.	v	Ç	ķ	Day
M 1	20 39 17	8 Ω 57'46	19) 3	6 Ω 32	25Ⅲ24	7 Υ 10	1 II 37	26°R36	27°R33	8°R 1	9 M .48	14°D28	15) 53	8 m)46	3938	M 1
T 2	20 43 13	9°55'09	3 Υ 43	8°38	26° 8	7°28	1°46	26 × 34	27 × 731	7 云 59	9°48	14 米 29	15°50	8°53	3°43	T 2
W 3	20 47 10	10°52'34	18° 4	10°43	26°53	7°47	1°55	26°31	27°30	7°58	9°49	14°31	15°47	9° 0	3°48	W 3
T 4	20 51 6	11°50'00	2 8 5	12°47	27°39	8° 4	2° 4	26°29	27°28	7°57	9°49	14°32	15°44	9° 6	3°53	T 4
F 5	20 55 3	12°47'27	15°44	14°50	28°26	8°21	2°13	26°26	27°27	7°55	9°50	14°R32	15°41	9°13	3°58	F 5
S 6	20 58 59	13°44'55	29° 4	16°52	29°13	8°37	2°21	26°24	27°25	7°54	9°50	14°31	15°37	9°20	4° 2	S 6
S 7	21 2 56	14°42'25	12耳 5	18°53	0ණ 1	8°53	2°30	26°22	27°24	7°53	9°51	14°29	15°34	9°26	4° 7	S 7
M 8	21 6 53	15°39'56	24°50	20°53	0°50	9° 8	2°38	26°20	27°22	7°52	9°52	14°25	15°31	9°33	4°12	M 8
T 9	21 10 49	16°37'28	79520	22°51	1°40	9°22	2°46	26°18	27°21	7°51	9°52	14°21	15°28	9°40	4°16	T 9
W10	21 14 46	17°35'02	19°39	24°48	2°30	9°36	2°54	26°16	27°20	7°49	9°53	14°17	15°25	9°46	4°21	W10
T 11	21 18 42	18°32'37	1 Ω 48	26°44	3°21	9°48	3° 2	26°14	27°19	7°48	9°54	14°12	15°22	9°53	4°25	T 11
F 12	21 22 39	19°30'13	13°48	28°38	4°13	10° 1	3°10	26°12	27°17	7°47	9°54	14° 9	15°18	10° 0	4°30	F 12
S 13	21 26 35	20°27'50	25°41	0 m 30	5° 6	10°12	3°18	26°10	27°16	7°46	9°55	14° 7	15°15	10° 6	4°34	S 13
S 14	21 30 32	21°25'28	7 m 30	2°22	5°59	10°22	3°25	26° 9	27°15	7°45	9°56	14° 5	15°12	10°13	4°39	S 14
M15	21 34 29	22°23'08	19°16	4°11	6°52	10°32	3°33	26° 7	27°14	7°44	9°57	14°D 5	15° 9	10°20	4°43	M15
T 16	21 38 25	23°20'48	1 ₾ 3	5°59	7°46	10°41	3°40	26° 6	27°13	7°43	9°58	14° 6	15° 6	10°26	4°47	T 16
W17	21 42 22	24°18'30	12°54	7°46	8°41	10°50	3°47	26° 4	27°12	7°42	9°59	14° 7	15° 3	10°33	4°52	W17
T 18	21 46 18	25°16'12	24°52	9°31	9°36	10°57	3°54	26° 3	27°11	7°41	10° 0	14° 9	14°59	10°39	4°56	T 18
F 19	21 50 15	26°13'56	7 m 1	11°15	10°32	11° 4	4° 0	26° 2	27°10	7°40	10° 1	14°10	14°56	10°46	5° 0	F 19
S 20	21 54 11	27°11'41	19°27	12°58	11°28	11°10	4° 7	26° 1	27° 9	7°39	10° 2	14°11	14°53	10°53	5° 4	S 20
S 21	21 58 8	28° 9'28	2 ₹ 12	14°39	12°24	11°15	4°13	26° 0	27° 9	7°38	10° 3	14°R11	14°50	10°59	5° 8	S 21
M22	22 2 4	29° 7'15	15°21	16°18	13°22	11°19	4°20	25°59	27° 8	7°37	10° 4	14°11	14°47	11° 6	5°12	M22
T 23	22 6 1	0 Mp 5′03	2 <u>8</u> °57	17°56	14°19	11°22	4°26	25°58	27° 7	7°37	10° 5	14°10	14°43	11°13	5°16	T 23
W24	22 9 57	1° 2'53	13 る 0	19°33	15°17	11°25	4°32	25°58	27° 7	7°36	10° 6	14° 8	14°40	11°19	5°20	W24
T 25	22 13 54	2° 0'44	27°30	21° 9	16°16	11°27	4°38	25°57	27° 6	7°35	10° 7	14° 6	14°37	11°26	5°24	T 25
F 26	22 17 51	2°58'36	12≈21	22°43	17°14	11°28	4°43	25°57	27° 5	7°34	10° 9	14° 5	14°34	11°33	5°28	F 26
S 27	22 21 47	3°56'30	27°27	24°16	18°14	11°R28	4°49	25°56	27° 5	7°34	10°10	14° 4	14°31	11°39	5°31	S 27
S 28	22 25 44	4°54'25	12) (40	25°47	19°13	11°27	4°54	25°56	27° 4	7°33	10°11	14°D 4	14°28	11°46	5°35	S 28
M29	22 29 40	5°52'21	27°49	27°17	20°13	11°25	4°59	25°56	27° 4	7°32	10°12	14° 4	14°24	11°53	5°39	M29
T 30	22 33 37	6°50'20	12 Υ 46	28°46	21°14	11°23	5° 4	25°D56	27° 4	7°32	10°14	14° 5	14°21	11°59	5°42	T 30
W31	22 37 33	7 m 48'20	27 Y 23	0 ჲ 13	229915	11 Y 20	5 I 9	25 × 56	27 ×7 3	7 云 31	10 M .15	14) 5	14) (18	12Mp 6	59546	W31

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M 1 T 2	18n 1 17 46		n25 20n 43 19				4s32 4 29	1 s24		19n34 19 36		22 s21		23 s38 23 38		22 s13 22 13	0n59 0 59	0n29 16n 1 0 28 16 0	6s 7	5 s34 5 35		17n40 17 40	5 s44
$\begin{bmatrix} 1 & 2 \\ W & 3 \end{bmatrix}$	17 40		53 19				4 29	1 19 1 14	4 40	19 38		22 21 22 21	1 3				0 59	0 28 16 0 0 27 16 0	6 6	5 36	-	17 40	5 44 5 44
T 4		-	51 18		1 44 1		4 23	1 8	4 43			22 21	1 3			22 13	0 59	0 26 15 59	6 5	5 38		17 39	5 45
F 5		-	35 18		1 45 1	-	4 19	1 3	4 45			22 21	1 3			22 14	0 59	0 26 15 58	6 5	5 39		17 38	5 45
S 6	16 42	24 51 5	2 17	28 1	1 46 1	9 11	4 16	0 59	4 47	19 43	0 57	22 21	1 3	23 38	0 13	22 14	0 59	0 25 15 58	6 6	5 40	8 36	17 38	5 45
S 7	16 25	27 25 5	13 16	51 1	1 46 1	9 15	4 12	0 54	4 49	19 44	0 57	22 21	1 2	23 38	0 13	22 14	0 59	0 24 15 57	6 7	5 41	8 33	17 37	5 46
M 8	16 9	28 28 5	8 16	12 1	1 45 1	9 18	4 8	0 50	4 51	19 46	0 57	22 21	1 2	23 38	0 13	22 14	0 59	0 24 15 57	6 8	5 43	8 29	17 37	5 46
T 9	15 51	28 2 4	48 15	32 1	1 44 1	9 21	4 4	0 46	4 53	19 47	0 57	22 21	1 2	23 38	0 13	22 14	0 59	0 23 15 56	6 10	5 44	8 26	17 36	5 46
W10	15 34	26 13 4	16 14	51 1	1 42 1	9 25	4 1	0 43	4 54	19 49	0 57	22 22	1 2	23 38	0 13	22 14	0 59	0 22 15 56	6 11	5 45	8 23	17 36	5 47
T 11	15 16	23 12 3	32 14	10 1	1 40 1	9 28	3 57	0 39	4 56	19 50	0 57	22 22	1 2	23 38	0 13	22 14	0 59	0 21 15 55	6 13	5 46	8 19	17 35	5 47
F 12	14 58	19 14 2	39 13	28 1	1 37 1	9 30	3 52	0 36	4 58	19 52	0 57	22 22	1 2			1	0 59	0 21 15 54	6 14	5 47	8 16	17 35	5 48
S 13	14 40	14 32 1	40 12	45 1	1 33 1	9 33	3 48	0 33	4 59	19 53	0 57	22 22	1 1	23 38	0 13	22 14	0 59	0 20 15 54	6 15	5 49	8 13	17 34	5 48
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M15	14 3		s29 11			9 36	3 40	0 28	5 3	19 56	0 57		1 1	23 38			0 59	0 18 15 53	6 16	5 51	8 6	-,	5 49
T 16	13 44		32 10				3 35	0 26	5 4	19 57	0 57		1 1	23 38			0 59	0 17 15 52	6 15	5 52	8 3		5 49
W17	13 25			-		9 39	3 31	0 24	5 5		0 58		1 1	23 38			0 59	0 17 15 52	6 15	5 54		17 32	5 50
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F 19				19 1		9 40	3 22	0 21	5 8			22 23		23 38		22 15	0 59	0 15 15 50		5 56		17 31	5 50
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S 21							3 13	0 19	5 11			22 23		23 38		22 15	0 58	0 13 15 49	6 13	5 59		17 30	5 51
M22	11 47					9 39	3 8	0 18	5 12		0 58	_		23 38		22 15	0 58	0 12 15 49	6 14	6 0	7 43		5 52
T 23	11 27					9 38	3 3	0 18	5 13		0 58	_		23 38			0 58	0 12 15 48	6 14	6 1	7 39		5 52
W24	-						2 58	0 18	5 14			22 23		23 38			0 58	0 11 15 48	6 15	6 2	7 36		5 53
T 25		-		-			2 54	0 18	5 15			22 24		23 38			0 58	0 10 15 47	6 15	6 3	7 33		5 53
F 26 S 27		-	47 3 31 2				2 49 2 44	0 18 0 19	5 16			22 24		23 38 23 38		22 15 22 16	0 58 0 58	0 9 15 47 0 8 15 46	6 16	6 5		17 27 17 26	5 54 5 54
			31 2	23 0					5 16			22 24					0 38		6 16	6 6			
S 28	9 43	6 56 0	-				2 39	0 20		20 9		22 24		23 38		22 16	0 58	0 7 15 46	6 16	6 7		17 25	5 54
M29	9 22	-		57 0		-	2 34	0 21		20 10		22 24		23 38		22 16	0 58	0 6 15 45	6 16	6 8		17 25	5 55
T 30	9 0						2 29	0 22		20 11		22 24		23 38		22 16	0 58	0 6 15 45	6 16	6 10		17 24	5 55
W31	8n39	13n56 31	n38 0 s	s28 (0 s25 1	9n14	2 s24	0 s24	5 s 1 8	20n12	0 s59	22 s24	0n58	23 s38	0s13	22 s 16	0n58	0n 5 15n44	6s16	6s11	7n12	17n24	5 s 5 6

Julian Day Number = 2447374.5, Delta T = 56.10 sec Ecliptic obliquity = 23°26'36, Nutation = 0°00'05, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°34'51, Lahiri = 23°41'51

SEPTEMBER 1988 00:00 UT

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Day	Sid.t	\odot	D	Ϋ́	φ	ð	4	ħ)∤(¥	Р	n	v	Ç	Ŗ	Day
T 1	22 41 30	8 Mp 46'22	11836	1 ≏ 39	239516	11°R16	5 Ⅱ 13	25 ₹ 56	27°R 3	7°R30	10 M .16	14) 6	14) (15	12 m 12	59549	T 1
F 2	22 45 26	9°44'26	25°24	3° 3	24°17	11 Y 11	5°18	25°56	27 ×7 3	7 云 30	10°18	14° 6	14°12	12°19	5°53	F 2
S 3	22 49 23	10°42'32	8 Ⅱ 46	4°26	25°19	11° 5	5°22	25°56	27° 3	7°29	10°19	14°R 6	14° 9	12°26	5°56	S 3
	22 53 20	11°40'40	21°44	5°48	26°21	10°58	5°26	25°57	27° 3	7°29	10°21	14° 6	14° 5	12°32	5°59	S 4
M 5	22 57 16	12°38'50	49523	7° 8	27°24	10°51	5°30	25°57	27°D 3	7°28	10°22	14° 6	14° 2	12°39	6° 2	M 5
	23 1 13	13°37'02	16°44	8°27	28°26	10°42	5°34	25°58	27° 3	7°28	10°24	14°D 6	13°59	12°46	6° 6	T 6
	23 5 9	14°35'16	28°53	9°44	29°29	10°33	5°37	25°59	27° 3	7°27	10°25	14° 6	13°56	12°52	6° 9	W 7
	23 9 6	15°33'32	10 N 51	10°59	0Ω 33	10°23	5°41	25°59	27° 3	7°27	10°27	14° 6	13°53	12°59	6°12	T 8
	23 13 2	16°31'49	22°43	12°13	1°36	10°13	5°44	26° 0	27° 3	7°27	10°29	14° 6	13°49	13° 6	6°15	F 9
S 10	23 16 59	17°30'09	4 m y31	13°25	2°40	10° 2	5°47	26° 1	27° 3	7°26	10°30	14° 7	13°46	13°12	6°17	S 10
S 11	23 20 55	18°28'30	16°18	14°35	3°44	9°50	5°49	26° 2	27° 3	7°26	10°32	14°R 7	13°43	13°19	6°20	S 11
M12	23 24 52	19°26'53	28° 6	15°43	4°49	9°37	5°52	26° 3	27° 4	7°26	10°34	14° 6	13°40	13°26	6°23	M12
T 13	23 28 49	20°25'18	9 ≙ 57	16°49	5°54	9°24	5°54	26° 5	27° 4	7°26	10°35	14° 6	13°37	13°32	6°26	T 13
	23 32 45	21°23'45	21°54	17°52	6°58	9°10	5°57	26° 6	27° 5	7°26	10°37	14° 5	13°34	13°39	6°28	W14
	23 36 42	22°22'14	3 M 59	18°54	8° 4	8°55	5°59	26° 8	27° 5	7°25	10°39	14° 4	13°30	13°45	6°31	T 15
F 16	23 40 38	23°20'44	16°15	19°53	9° 9	8°40	6° 0	26° 9	27° 6	7°25	10°41	14° 3	13°27	13°52	6°33	F 16
S 17	23 44 35	24°19'16	28°44	20°49	10°15	8°25	6° 2	26°11	27° 6	7°25	10°42	14° 2	13°24	13°59	6°35	S 17
S 18	23 48 31	25°17'50	11 ~ 29	21°43	11°21	8° 9	6° 3	26°13	27° 7	7°25	10°44	14° 1	13°21	14° 5	6°38	S 18
M19	23 52 28	26°16'25	24°35	22°33	12°27	7°53	6° 5	26°14	27° 7	7°D25	10°46	14°D 1	13°18	14°12	6°40	M19
	23 56 24	27°15'02	8 ට 2	23°20	13°33	7°36	6° 6	26°16	27° 8	7°25	10°48	14° 1	13°15	14°19	6°42	T 20
W21	0 0 21	28°13'41	21°54	24° 3	14°39	7°19	6° 7	26°18	27° 9	7°25	10°50	14° 1	13°11	14°25	6°44	W21
T 22	0 4 18	29°12'21	6≈10	24°43	15°46	7° 2	6° 7	26°21	27°10	7°25	10°52	14° 3	13° 8	14°32	6°46	T 22
F 23	0 8 14	0 ჲ 11'03	20°48	25°19	16°53	6°45	6° 8	26°23	27°11	7°25	10°54	14° 4	13° 5	14°39	6°48	F 23
S 24	0 12 11	1° 9'47	5) 44	25°50	18° 0	6°27	6° 8	26°25	27°12	7°26	10°56	14° 4	13° 2	14°45	6°50	S 24
S 25	0 16 7	2° 8'33	20°51	26°16	19°8	6° 9	6°R 8	26°28	27°12	7°26	10°58	14°R 4	12°59	14°52	6°52	S 25
M26	0 20 4	3° 7'20	6 Υ 0	26°36	20°15	5°52	6° 8	26°30	27°14	7°26	11° 0	14° 4	12°55	14°59	6°53	M26
T 27	0 24 0	4° 6'09	21° 3	26°52	21°23	5°34	6° 7	26°33	27°15	7°26	11° 2	14° 2	12°52	15° 5	6°55	T 27
W28	0 27 57	5° 5'01	5 8 50	27° 1	22°31	5°16	6° 7	26°35	27°16	7°27	11° 4	13°59	12°49	15°12	6°56	W28
T 29	0 31 53	6° 3'55	20°14	27°R 3	23°39	4°59	6° 6	26°38	27°17	7°27	11° 6	13°56	12°46	15°19	6°58	T 29
F 30	0 35 50	7 ♀ 2'51	4 Ⅱ 11	26 ≏ 59	24 Ω 47	4 Υ41	6 I 5	26 × 741	27 × 18	7 궁 27	11 M 8	13 米 53	12) 43	15 m 25	6959	F 30

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S 4 M 5 T 6 W 7 T 8	7 11 6 49 6 27 6 4 5 42	28 20 4 58 26 49 4 28 24 4 3 46	3 52 1 4 31 1 5 10 1	59 18 51 2 4 8 18 44 1 59 17 18 37 1 54 25 18 29 1 50 34 18 20 1 45	0 35 5 18 0 38 5 18 0 41 5 17	20 14 0 59 20 15 0 59 20 16 1 0 20 16 1 0 20 17 1 0	22 25 0 58 22 26 0 57 22 26 0 57	23 38 0 13 23 38 0 13 23 38 0 13 23 38 0 13 23 38 0 13	22 16 0 58 22 16 0 58 22 16 0 58	0 1 15 42 0 0 15 42 0s 1 15 41 0 2 15 41 0 2 15 40	6 15 6 16 6 15 6 17 6 15 6 18 6 15 6 19 6 15 6 2	6 56 6 52 6 49	17 21 5 58 17 20 5 58 17 20 5 59 17 19 5 59 17 18 6 0
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S 11 M12 T 13 W14 T 15 F 16 S 17	4 34 4 11 3 48 3 25 3 2 2 39 2 15	0s25 1 17 6 4 2 19 11 33 3 15 16 39 4 3 21 10 4 41	8 9 2 8 42 2 9 14 2 9 45 2 10 14 2		0 59 5 13 1 3 5 12 1 7 5 10 1 11 5 9 1 16 5 7	20 18 1 0 20 18 1 0 20 19 1 0	22 27 0 56 22 28 0 56	23 38 0 13 23 38 0 13 23 38 0 13 23 38 0 13 23 38 0 13	22 17 0 58 22 17 0 58 22 17 0 57	0 5 15 39 0 6 15 38 0 7 15 38 0 8 15 37 0 9 15 37 0 10 15 37 0 11 15 36	6 15 6 24 6 15 6 25 6 15 6 25 6 16 6 25 6 16 6 25 6 17 6 30 6 17 6 35	6 32 6 29 8 6 25 9 6 22 0 6 19	17 16 6 1 17 16 6 2 17 15 6 3 17 14 6 3 17 14 6 4 17 13 6 4 17 12 6 5
S 18 M19 T 20 W21 T 22 F 23 S 24	1 6 0 42 0 19	28 31 5 12 28 1 4 50 25 47 4 10 21 53 3 15 16 33 2 5	11 35 3 11 59 3 12 21 3 12 41 3 12 59 3	54 16 29 0 56 1 16 15 0 51 8 16 1 0 47 14 15 46 0 42 20 15 31 0 37 25 15 15 0 33 30 14 59 0 28	1 37 4 56 1 42 4 53	20 20 1 1 20 20 1 1	22 28 0 55 22 28 0 55 22 29 0 55 22 29 0 55 22 29 0 55	23 38 0 13 23 38 0 13 23 38 0 13 23 38 0 13 23 38 0 13	22 17 0 57	0 12 15 36 0 13 15 35 0 14 15 35 0 14 15 35 0 15 15 34 0 16 15 34 0 17 15 33	6 17 6 33 6 18 6 34 6 17 6 33 6 17 6 33 6 16 6 33 6 16 6 44	1 6 9 5 6 5 6 6 2 8 5 58 9 5 55	17 10 6 6 17 10 6 7 17 9 6 8
S 25 M26 T 27 W28 T 29 F 30	0 51 1 14 1 38 2 1 2 25 2 s48	11 9 3 10 17 22 4 8 22 26 4 49	13 39 3 13 47 3 13 52 3 13 53 3	34 14 43 0 24 38 14 26 0 20 40 14 8 0 15 42 13 50 0 11 43 13 32 0 7 842 13n13 0s 2	1 54 4 44 1 58 4 41 2 2 4 38 2 6 4 34 2 10 4 31 2 13 4 8 2 7	20 19 1 2 20 19 1 2	22 30 0 54 22 30 0 54 22 30 0 54 22 30 0 54	23 38 0 13 23 38 0 13 23 38 0 13 23 38 0 13	22 17 0 57	0 18 15 33 0 19 15 33 0 20 15 32 0 21 15 32 0 22 15 32 0 s23 15n31	6 16 6 4 6 16 6 4 6 17 6 4 6 18 6 4 6 19 6 4 6 820 6 84	3 5 45 4 5 42 5 5 38 6 5 35	17 6 6 10 17 6 6 10 17 5 6 11

 $\label{eq:Julian Day Number = 2447405.5, Delta T = 56.14 sec} \\ Ecliptic obliquity = 23°26'36, Nutation = 0°00'05, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°34'55, Lahiri = 23°41'56 \\$

OCTOBER 1988 00:00 UT

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S 1	0 39 47	8 요 1'49	17 Ⅱ 41	26°R48	25 Ω 56	4°R24	6°R 4	26 ×7 44	27 × 19	7 る 28	11 M .10	13°R51	12) (40	15 m 32	799 1	S 1
S 2	0 43 43	9° 0'50	09544	26 ₽ 29	27° 4	4 ℃ 7	6 I I 2	26°47	27°21	7°28	11°12	13 米 50	12°36	15°38	7° 2	S 2
M 3	0 47 40	9°59'53	13°22	26° 2	28°13	3°50	6° 1	26°50	27°22	7°29	11°14	13°D49	12°33	15°45	7° 3	M 3
T 4	0 51 36	10°58'58	25°42	25°28	29°22	3°33	5°59	26°53	27°23	7°29	11°16	13°50	12°30	15°52	7° 4	T 4
W 5	0 55 33	11°58'06	7 Ω 46	24°46	0 m 31	3°17	5°57	26°57	27°25	7°30	11°19	13°52	12°27	15°58	7° 5	W 5
T 6	0 59 29	12°57'16	19°40	23°56	1°40	3° 1	5°55	27° 0	27°26	7°30	11°21	13°53	12°24	16° 5	7° 6	T 6
F 7	1 3 26	13°56'28	1 m) 28	23° 0	2°50	2°45	5°52	27° 3	27°28	7°31	11°23	13°55	12°20	16°12	7° 7	F 7
S 8	1 7 22	14°55'42	13°14	21°58	3°59	2°30	5°50	27° 7	27°30	7°31	11°25	13°R56	12°17	16°18	7° 7	S 8
S 9	1 11 19	15°54'58	25° 2	20°51	5° 9	2°16	5°47	27°11	27°31	7°32	11°27	13°55	12°14	16°25	7° 8	S 9
M10	1 15 16	16°54'17	6 ₽ 55	19°41	6°19	2° 2	5°44	27°14	27°33	7°33	11°30	13°53	12°11	16°32	7° 9	M10
T 11	1 19 12	17°53'38	18°54	18°29	7°29	1°49	5°41	27°18	27°35	7°33	11°32	13°49	12° 8	16°38	7° 9	T 11
W12	1 23 9	18°53'00	1 m 2	17°18	8°39	1°36	5°37	27°22	27°37	7°34	11°34	13°43	12° 5	16°45	7° 9	W12
T 13	1 27 5	19°52'25	13°20	16°10	9°49	1°24	5°34	27°26	27°38	7°35	11°36	13°37	12° 1	16°52	7°10	T 13
F 14	1 31 2	20°51'52	25°49	15° 5	11° 0	1°13	5°30	27°30	27°40	7°36	11°39	13°30	11°58	16°58	7°10	F 14
S 15	1 34 58	21°51'21	8 ₮ 30	14° 7	12°10	1° 2	5°26	27°34	27°42	7°36	11°41	13°24	11°55	17° 5	7°10	S 15
S 16	1 38 55	22°50'51	21°24	13°17	13°21	0°52	5°22	27°38	27°44	7°37	11°43	13°19	11°52	17°11	7°R10	S 16
M17	1 42 51	23°50'23	4 궁 33	12°37	14°32	0°43	5°18	27°43	27°46	7°38	11°46	13°15	11°49	17°18	7°10	M17
T 18	1 46 48	24°49'57	17°58	12° 7	15°43	0°34	5°13	27°47	27°48	7°39	11°48	13°13	11°46	17°25	7°10	T 18
W19	1 50 45	25°49'33	1≈41	11°47	16°54	0°26	5° 9	27°51	27°50	7°40	11°50	13°D13	11°42	17°31	7°10	W19
T 20	1 54 41	26°49'11	15°42	11°D39	18° 5	0°20	5° 4	27°56	27°53	7°41	11°53	13°14	11°39	17°38	7°10	T 20
F 21	1 58 38	27°48'50	0 ∀ 1	11°42	19°16	0°13	4°59	28° 1	27°55	7°42	11°55	13°16	11°36	17°45	7° 9	F 21
S 22	2 2 34	28°48'31	14°36	11°56	20°27	0° 8	4°54	28° 5	27°57	7°43	11°58	13°R16	11°33	17°51	7° 9	S 22
S 23	2 6 3 1	29°48'13	29°24	12°20	21°39	0° 3	4°48	28°10	27°59	7°44	12° 0	13°15	11°30	17°58	7° 8	S 23
M24	2 10 27	0 M 47'57	14 Y 17	12°54	22°50	29 米 59	4°43	28°15	28° 2	7°45	12° 2	13°12	11°26	18° 5	7° 8	M24
T 25	2 14 24	1°47'44	29° 9	13°37	24° 2	29°57	4°37	28°20	28° 4	7°47	12° 5	13° 6	11°23	18°11	7° 7	T 25
W26	2 18 20	2°47'32	13 8 52	14°28	25°14	29°55	4°31	28°24	28° 6	7°48	12° 7	12°59	11°20	18°18	7° 6	W26
T 27	2 22 17	3°47'22	28°16	15°26	26°26	29°53	4°25	28°29	28° 9	7°49	12° 9	12°51	11°17	18°25	7° 5	T 27
F 28	2 26 14	4°47'14	12 II 17	16°30	27°38	29°D53	4°19	28°34	28°11	7°50	12°12	12°42	11°14	18°31	7° 4	F 28
S 29	2 30 10	5°47'09	25°52	17°40	28°50	29°53	4°13	28°40	28°14	7°52	12°14	12°35	11°11	18°38	7° 3	S 29
S 30	2 34 7	6°47'06	999 0	18°54	0 <u>ი</u> 2	29°54	4° 6	28°45	28°16	7°53	12°17	12°29	11° 7	18°45	7° 2	S 30
M31	2 38 3	7 M 47'05	219542	20 ≏ 13	1 ≙ 14	29 米 56	4 II 0	28 ₹ 50	28 ~ 19	7 궁 54	12 M 19	12) (26	11) 4	18 m 51	7 95 1	M31

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S 1	3 s11	28n 5	5n14	13 s46	3 s41	12n54	0n 2	2 s 1 7	4 s23	20n18	1 s 2	22 s31	0n53	23 s38	0s13	22 s17	0n57	0 s24	15n31	6 s21	6 s49	5n28	17n 3	6 s 1 3
S 2	3 34	28 28	5 1	13 36	3 38	12 35	0 6	2 20	4 19	20 18	1 2	22 31	0 53	23 38	0 13	22 17	0 57	0 25 1	15 31	6 22	6 50	5 25	17 3	6 13
M 3	3 58	27 19	4 34	13 22	3 33	12 15	0 10	2 23	4 15	20 18	1 2	22 31	0 53	23 38	0 13	22 17	0 57	0 25 1	15 30	6 22	6 51	5 21	17 2	6 14
T 4	4 21	24 51	3 55	13 3	3 26		0 14	2 26		20 17	1 2	_	0 53				0 57		15 30	6 22	6 52	5 18		6 15
W 5	4 44	21 19	-	12 40	3 18	-	0 18	2 28	4 7	20 17	1 2	_		23 38		22 17	0 57		15 30	6 21	6 53	5 14		6 15
T 6	5 7	16 58		12 12	3 8	-	0 21	2 31	4 3		1 2			23 38			0 57		15 30	6 20	6 55	5 11		6 16
F 7	5 30		-	11 41	2 57		0 25	2 33		20 16				23 38			0 57		15 29	6 20	6 56		16 59	6 16
S 8	5 53	6 39	0 4	11 5	2 43	10 30	0 29	2 35	3 54	20 15	1 2	22 33	0 52	23 38	0 13	22 17	0 57	0 30 1	15 29	6 19	6 57	5 4	16 59	6 17
S 9	6 16	1 3	1s 1	10 25	2 27	10 8	0 32	2 36	3 49	20 15	1 3	22 33	0 52	23 38	0 13	22 17	0 56	0 31 1	15 29	6 20	6 58	5 1	16 58	6 18
M10	6 39	4s37	2 2	9 43	2 10	9 45	0 36	2 38	3 45	20 14	1 3	22 33	0 52	23 38	0 13	22 17	0 56	0 32 1	15 28	6 21	7 0	4 58	16 57	6 18
T 11	7 1	10 10	2 59	8 58	1 52	9 22	0 39	2 39	3 40	20 14	1 3	22 33	0 52	23 38	0 13	22 17	0 56	0 33 1	15 28	6 22	7 1	4 54	16 57	6 19
W12	7 24	15 25	3 49	8 13	1 32	8 59	0 43	2 40	3 36	20 13	1 3	22 33	0 52	23 38	0 13	22 17	0 56	0 34 1	15 28	6 24	7 2	4 51	16 56	6 19
T 13	7 46	20 6	4 28	7 28	1 12	8 36	0 46	2 40	3 31	20 12	1 3	22 34	0 51	23 38	0 13	22 17	0 56	0 34 1	15 28	6 27	7 3	4 47	16 56	6 20
F 14	8 9	24 0	4 56	6 44	0 51	8 12	0 49	2 41	3 26	20 12	1 3	22 34	0 51	23 38	0 13	22 17	0 56	0 35 1	15 28	6 29	7 4	4 44	16 55	6 21
S 15	8 31	26 49	5 9	6 3	0 31	7 48	0 53	2 40	3 22	20 11	1 3	22 34	0 51	23 38	0 13	22 17	0 56	0 36 1	15 27	6 32	7 6	4 41	16 54	6 21
S 16	8 53	28 16	5 7	5 25	0 11	7 24	0 56	2 40	3 17	20 10	1 3	22 34	0 51	23 38	0 13	22 17	0 56	0 37 1	15 27	6 34	7 7	4 37	16 54	6 22
M17	9 15	28 11	4 49	4 51	0n 9	7 0	0 59	2 40	3 12	20 9	1 3	22 35	0 51	23 38	0 13	22 17	0 56	0 38 1	15 27	6 35	7 8	4 34	16 53	6 22
T 18	9 37	26 27	4 15	4 23	0 27	6 35	1 2	2 39	3 8					23 38		22 17	0 56	0 39 1	15 27	6 36	7 9	4 30	16 53	6 23
W19	9 59		3 26		0 44	6 10	1 4	2 37				22 35		23 38		22 17	0 56	0 40 1		6 36	7 10		16 52	6 24
T 20	10 20		2 24	-	0 59	5 45	1 7	2 36				22 35		23 38		22 17	0 56	0 40 1		6 35	7 12		16 51	6 24
F 21		12 35	1 11	3 30	1 13		1 10	2 34				22 35		23 38		22 17	0 56	0 41 1		6 35	7 13		16 51	6 25
S 22	11 3	5 57	0n 7	3 25	1 25	4 54	1 12	2 32	2 49	20 5	1 3	22 36	0 50	23 38	0 13	22 17	0 56	0 42 1	15 26	6 35	7 14	4 17	16 50	6 25
S 23	11 24	1n 4	1 26	3 24	1 36	4 28	1 15	2 29	2 44	20 4	1 3	22 36	0 50	23 39	0 13	22 17	0 56	0 43 1	15 26	6 35	7 15	4 13	16 50	6 26
M24	11 45	8 5	2 39	3 29	1 45	4 2	1 17	2 27	2 40	20 3	1 3	22 36	0 50	23 39	0 13	22 17	0 56	0 44 1	15 26	6 36	7 16	4 10	16 49	6 26
T 25	12 6	14 38	3 42	3 39	1 52	3 35	1 20	2 24	2 35	20 2	1 3	22 36	0 50	23 39	0 13	22 17	0 56	0 45 1	15 26	6 38	7 18	4 7	16 49	6 27
W26	12 27	20 16	4 28	3 53	1 58	3 9	1 22	2 20	2 31	20 1	1 3	22 36	0 50	23 39	0 13	22 17	0 56	0 45 1	15 25	6 41	7 19	4 3	16 48	6 28
T 27	12 47	24 36	4 57	4 11	2 3	2 42	1 24	2 17	2 26	20 0	1 3	22 37	0 49	23 39	0 13	22 17	0 56	0 46	15 25	6 44	7 20	4 0	16 48	6 28
F 28	13 7	27 20	5 7	4 33	2 6	2 16	1 26	2 13	2 22	19 58	1 3	22 37	0 49	23 39	0 13	22 17	0 56	0 47	15 25	6 48	7 21	3 56	16 47	6 29
S 29	13 27	28 21	4 59	4 58	2 8	1 49	1 28	2 9	2 17	19 57	1 3	22 37	0 49	23 39	0 13	22 17	0 56	0 48 1	15 25	6 50	7 23	3 53	16 46	6 29
S 30	13 47	27 43	4 35	5 25	2 9	1 22	1 30	2 5	2 13	19 56	1 3	22 37	0 49	23 39	0 13	22 17	0 56	0 48 1	15 25	6 53	7 24	3 50	16 46	6 30
M31	14s 6	25n37	3n58	5 s 5 5	2n 9	0n55	1n32	2 s 0	2s 9	19n55	1 s 3	$22\mathrm{s}37$	0n49	23 s39	0s13	22 s17	0n56	0s49	15n25	6 s 5 4	7 s25	3n46	16n45	6 s 3 0

Julian Day Number = 2447435.5, Delta T = 56.18 sec Ecliptic obliquity = $23^{\circ}26'36$, Nutation = $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}34'59$, Lahiri = $23^{\circ}42'00$

NOVEMBER 1988 00:00 UT

Day	Sid.t	0	D	ğ	Q.	ð	4	ħ)∤(#	В	n	v	Ç	Ŗ	Day
T 1	2 42 0	8 M 47'06	4 Ω 3	21 ≏ 35	2 ≙ 27	29 米 58	3°R53	28 √ 55	28 × 22	7 る 55	12M22	12°D24	11) (1	18 m 58	7°R 0	T 1
W 2	2 45 56	9°47'09	16° 8	23° 0	3°39	oΥ 2	3耳46	29° 1	28°24	7°57	12°24	12) 24	10°58	19° 4	6959	W 2
T 3	2 49 53	10°47'14	28° 1	24°28	4°52	0° 6	3°40	29° 6	28°27	7°58	12°26	12°25	10°55	19°11	6°57	T 3
F 4	2 53 49	11°47'21	9 m /49	25°58	6° 4	0°11	3°33	29°12	28°30	8° 0	12°29	12°R26	10°52	19°18	6°56	F 4
S 5	2 57 46	12°47'30	21°35	27°29	7°17	0°16	3°25	29°17	28°32	8° 1	12°31	12°25	10°48	19°24	6°54	S 5
S 6	3 1 43	13°47'42	3 ჲ 26	29° 2	8°30	0°23	3°18	29°23	28°35	8° 3	12°34	12°23	10°45	19°31	6°52	S 6
M 7	3 5 39	14°47'55	15°25	0 M .35	9°43	0°30	3°11	29°28	28°38	8° 4	12°36	12°18	10°42	19°38	6°51	M 7
T 8	3 9 36	15°48'10	27°34	2°10	10°56	0°37	3° 3	29°34	28°41	8° 6	12°39	12°10	10°39	19°44	6°49	T 8
W 9	3 13 32	16°48'27	9 M .55	3°45	12° 9	0°46	2°56	29°40	28°44	8° 7	12°41	12° 0	10°36	19°51	6°47	W 9
T 10	3 17 29	17°48'46	22°30	5°21	13°22	0°55	2°48	29°46	28°47	8° 9	12°43	11°48	10°32	19°58	6°45	T 10
F 11	3 21 25	18°49'07	5 √ 19	6°57	14°35	1° 5	2°40	29°52	28°50	8°10	12°46	11°36	10°29	20° 4	6°43	F 11
S 12	3 25 22	19°49'29	18°20	8°33	15°48	1°16	2°33	29°58	28°53	8°12	12°48	11°24	10°26	20°11	6°41	S 12
S 13	3 29 18	20°49'53	1 궁 33	10°10	17° 2	1°27	2°25	0중 4	28°56	8°14	12°51	11°14	10°23	20°18	6°39	S 13
M14	3 33 15	21°50'18	14°57	11°46	18°15	1°39	2°17	0°10	28°59	8°15	12°53	11° 6	10°20	20°24	6°36	M14
T 15	3 37 12	22°50'45	28°31	13°23	19°29	1°52	2° 9	0°16	29° 2	8°17	12°56	11° 1	10°17	20°31	6°34	T 15
W16	3 41 8	23°51'13	12≈15	14°59	20°42	2° 5	2° 1	0°22	29° 5	8°19	12°58	10°59	10°13	20°38	6°32	W16
T 17	3 45 5	24°51'42	26°10	16°35	21°56	2°19	1°53	0°28	29° 8	8°21	13° 0	10°D59	10°10	20°44	6°29	T 17
F 18	3 49 1	25°52'13	10 米 15	18°11	23° 9	2°33	1°45	0°34	29°11	8°22	13° 3	10°R59	10° 7	20°51	6°27	F 18
S 19	3 52 58	26°52'44	24°30	19°47	24°23	2°48	1°37	0°41	29°14	8°24	13° 5	10°58	10° 4	20°57	6°24	S 19
S 20	3 56 54	27°53'17	8 Y 53	21°23	25°37	3° 4	1°28	0°47	29°18	8°26	13° 7	10°56	10° 1	21° 4	6°21	S 20
M21	4 0 51	28°53'51	23°21	22°59	26°50	3°20	1°20	0°53	29°21	8°28	13°10	10°51	9°58	21°11	6°19	M21
T 22	4 4 4 7	29°54'27	7 8 49	24°35	28° 4	3°37	1°12	1° 0	29°24	8°30	13°12	10°42	9°54	21°17	6°16	T 22
W23	4 8 44	0 ₮ 55'04	22°11	26°10	29°18	3°54	1° 4	1° 6	29°27	8°32	13°15	10°32	9°51	21°24	6°13	W23
T 24	4 12 41	1°55'42	6 I I21	27°45	0 M 32	4°12	0°56	1°13	29°31	8°34	13°17	10°19	9°48	21°31	6°10	T 24
F 25	4 16 37	2°56'22	20°13	29°20	1°46	4°30	0°48	1°19	29°34	8°35	13°19	10° 7	9°45	21°37	6° 7	F 25
S 26	4 20 34	3°57'03	39543	0 ₹ 55	3° 0	4°49	0°39	1°26	29°37	8°37	13°22	9°55	9°42	21°44	6° 4	S 26
S 27	4 24 30	4°57'45	16°50	2°30	4°14	5° 8	0°31	1°32	29°41	8°39	13°24	9°46	9°38	21°51	6° 1	S 27
M28	4 28 27	5°58'29	29°33	4° 4	5°28	5°28	0°23	1°39	29°44	8°41	13°26	9°39	9°35	21°57	5°58	M28
T 29	4 32 23	6°59'15	11 Q 56	5°39	6°43	5°48	0°15	1°45	29°47	8°43	13°28	9°34	9°32	22° 4	5°55	T 29
W30	4 36 20	8 ₮ 0'02	24 N 2	7 . ₹13	7 M 57	6 ℃ 8	0 Π 7	1 る 52	29 × 751	8 국 45	13 M .31	9 ∺ 33	9 米 29	22 Mp 11	5952	W30

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T 3 F 4 S 5	15 4 15 22 15 41			0 54 1 38	1 44 1 56 1 39 1 52 1 33 1 48	19 50 1 3	22 38 0 48	23 39 0 13	22 17 0 56 22 17 0 55 22 17 0 55	0 51 15 25 0 52 15 25 0 53 15 25	6 54 7 29 6 54 7 30 6 54 7 3	3 32	16 44 6 32 16 44 6 33 16 43 6 33
S 6 M 7 T 8	15 59 16 17 16 34	8 38 2 47	10 0 1 48	2 17 1 42	1 27 1 44 1 20 1 40 1 14 1 36	19 46 1 3	22 38 0 48	23 39 0 13 23 39 0 13 23 39 0 13	22 17 0 55	0 54 15 25 0 54 15 25 0 55 15 25	6 55 7 33 6 57 7 33 7 0 7 33	3 22	16 43 6 34 16 42 6 34 16 42 6 35
W 9 T 10 F 11	16 52 17 9	18 51 4 17 23 0 4 45	11 15 1 37	3 12 1 44 3 40 1 45	1 7 1 33 1 0 1 29 0 52 1 25	19 43 1 3 19 42 1 3	22 39 0 48 22 39 0 48	23 39 0 13 23 39 0 13	22 16 0 55 22 16 0 55 22 16 0 55 22 16 0 55	0 56 15 25 0 56 15 25 0 56 15 25 0 57 15 25	7 4 7 30 7 8 7 3° 7 13 7 3°	3 15	16 41 6 35 16 41 6 36 16 40 6 36
S 12 S 13	17 42	27 55 5 0	13 6 1 20 13 42 1 13	4 35 1 47	0 45 1 22	19 39 1 3	22 39 0 47	23 39 0 13	22 16 0 55 22 16 0 55 22 16 0 55	0 58 15 25 0 58 15 25	7 17 7 39 7 21 7 4	3 5	16 40 6 37 16 40 6 37
M14 T 15 W16	18 29			5 57 1 48	0 29 1 15 0 21 1 11 0 13 1 8	19 36 1 3 19 34 1 3 19 33 1 3	22 39 0 47	23 39 0 13 23 39 0 13 23 39 0 13	22 16 0 55	0 59 15 25 1 0 15 25 1 0 15 25	7 24 7 42 7 26 7 42 7 27 7 4	2 55	16 39 6 38 16 39 6 38 16 38 6 39
T 17 F 18 S 19	18 59 19 14 19 28	7 47 0 4	16 36 0 40		0 4 1 4 0n 5 1 1 0 14 0 58	19 31 1 2 19 30 1 2 19 28 1 2	22 40 0 47	23 39 0 13	22 16 0 55 22 16 0 55 22 16 0 55		7 27 7 4: 7 27 7 4: 7 27 7 4:	2 45	16 38 6 39 16 38 6 40 16 37 6 40
S 20 M21 T 22	19 42 19 55 20 8	12 14 3 24	17 41 0 26 18 12 0 20 18 43 0 13	8 39 1 49	0 32 0 52	19 27 1 2 19 25 1 2 19 24 1 2	22 40 0 46	23 39 0 13	22 16 0 55 22 16 0 55 22 15 0 55	1 3 15 25 1 3 15 25 1 4 15 25	7 28 7 49 7 30 7 50 7 33 7 5	2 34	16 37 6 41 16 37 6 41 16 36 6 42
W23 T 24 F 25		26 17 5 0	19 12 0 6 19 41 0s 1 20 8 0 8	9 58 1 49	0 51 0 46 1 1 0 43 1 10 0 40	19 22 1 2 19 20 1 2	22 40 0 46 22 40 0 46	23 39 0 13 23 39 0 13	22 15 0 55 22 15 0 55 22 15 0 55	1 4 15 25 1 5 15 26 1 5 15 26	7 37 7 53 7 42 7 54 7 47 7 53	2 24	16 36 6 42 16 36 6 42 16 36 6 43
	20 57		20 35 0 14	10 49 1 48	1 20 0 37		22 40 0 46	23 39 0 13	22 15 0 55 22 15 0 55 22 15 0 55		7 51 7 50 7 55 7 5'	2 17	16 35 6 43 16 35 6 44
T 29		23 25 3 15 19 28 2 21 14n47 1n21	21 49 0 34		1 41 0 32 1 51 0 29 2n 2 0s27	19 13 1 1	22 40 0 46		22 15 0 55 22 15 0 55 22 s15 0n55	1 7 15 26 1 7 15 26 1s 8 15n26	7 57 7 59 7 59 8 6 8s 0 8s	2 7	16 35 6 44 16 35 6 44 16n34 6 s45

Julian Day Number = 2447466.5, Delta T = 56.22 sec Ecliptic obliquity = $23^{\circ}26'35$, Nutation = $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}35'04$, Lahiri = $23^{\circ}42'04$

DECEMBER 1988 00:00 UT

Day	Sid.t	0	D	ğ	Ф	ð	4	ħ)Å(¥	Р	ß	Ω	Ç	ę,	Day
T 1	4 40 16	9 ∡ 0'50	5 m 56	8 才 48	9 M .11	6 Υ 30	29°R59	1 る 59	29 х 54	8 궁 47	13 M 33	9°R32	9) €26	22 Mp 17	5°R48	T 1
F 2	4 44 13	10° 1'40	17°45	10°22	10°25	6°51	29 8 51	2° 6	29°58	8°49	13°35	9 ∺ 32	9°23	22°24	5 95 45	F 2
S 3	4 48 10	11° 2'31	29°32	11°56	11°40	7°13	29°43	2°12	0ਰ 1	8°51	13°37	9°31	9°19	22°31	5°42	S 3
S 4	4 52 6	12° 3'24	11 ≏ 25	13°30	12°54	7°35	29°35	2°19	0° 5	8°53	13°40	9°28	9°16	22°37	5°38	S 4
M 5	4 56 3	13° 4'18	23°28	15° 5	14° 9	7°58	29°28	2°26	0°8	8°56	13°42	9°23	9°13	22°44	5°35	M 5
T 6	4 59 59	14° 5'13	5 M .44	16°39	15°23	8°21	29°20	2°33	0°12	8°58	13°44	9°15	9°10	22°50	5°31	T 6
W 7	5 3 56	15° 6'10	18°17	18°13	16°38	8°45	29°12	2°40	0°15	9° 0	13°46	9° 4	9° 7	22°57	5°28	W 7
T 8	5 7 52	16° 7'07	1 √ 7	19°47	17°52	9° 8	29° 5	2°46	0°19	9° 2	13°48	8°51	9° 4	23° 4	5°24	T 8
F 9	5 11 49	17° 8'06	14°16	21°21	19° 7	9°33	28°57	2°53	0°22	9° 4	13°50	8°38	9° 0	23°10	5°21	F 9
S 10	5 15 45	18° 9'06	27°41	22°56	20°21	9°57	28°50	3° 0	0°26	9° 6	13°53	8°24	8°57	23°17	5°17	S 10
S 11	5 19 42	19°10'06	11 七 19	24°30	21°36	10°22	28°43	3° 7	0°29	9°8	13°55	8°13	8°54	23°24	5°13	S 11
M12	5 23 39	20°11'07	25° 7	26° 4	22°51	10°48	28°36	3°14	0°33	9°10	13°57	8° 4	8°51	23°30	5° 9	M12
T 13	5 27 35	21°12'09	9≈ 3	27°39	24° 5	11°13	28°29	3°21	0°37	9°13	13°59	7°59	8°48	23°37	5° 6	T 13
W14	5 31 32	22°13'12	23° 3	29°13	25°20	11°39	28°22	3°28	0°40	9°15	14° 1	7°56	8°44	23°44	5° 2	W14
T 15	5 35 28	23°14'14	7 ∺ 6	0 궁 48	26°35	12° 5	28°15	3°35	0°44	9°17	14° 3	7°D55	8°41	23°50	4°58	T 15
F 16	5 39 25	24°15'18	21°10	2°22	27°49	12°32	28° 8	3°42	0°47	9°19	14° 5	7°R55	8°38	23°57	4°54	F 16
S 17	5 43 21	25°16'21	5 Υ 15	3°57	29° 4	12°59	28° 2	3°49	0°51	9°21	14° 7	7°55	8°35	24° 4	4°50	S 17
S 18	5 47 18	26°17'25	19°20	5°32	0 ₮ 19	13°26	27°56	3°56	0°55	9°24	14° 9	7°53	8°32	24°10	4°47	S 18
M19	5 51 14	27°18'29	3 8 24	7° 7	1°34	13°54	27°49	4° 3	0°58	9°26	14°11	7°48	8°29	24°17	4°43	M19
T 20	5 55 11	28°19'33	17°25	8°42	2°49	14°21	27°43	4°10	1° 2	9°28	14°13	7°41	8°25	24°24	4°39	T 20
W21	5 59 8	29°20'38	1 I I19	10°16	4° 3	14°49	27°37	4°18	1° 5	9°30	14°14	7°31	8°22	24°30	4°35	W21
T 22	6 3 4	0 궁 21'44	15° 3	11°51	5°18	15°17	27°32	4°25	1° 9	9°33	14°16	7°20	8°19	24°37	4°31	T 22
F 23	6 7 1	1°22'49	28°34	13°26	6°33	15°46	27°26	4°32	1°13	9°35	14°18	7° 8	8°16	24°44	4°27	F 23
S 24	6 10 57	2°23'55	119548	15° 1	7°48	16°15	27°21	4°39	1°16	9°37	14°20	6°57	8°13	24°50	4°23	S 24
S 25	6 14 54	3°25'02	24°44	16°35	9° 3	16°44	27°15	4°46	1°20	9°39	14°22	6°48	8°10	24°57	4°19	S 25
M26	6 18 50	4°26'09	7 Ω 21	18° 9	10°18	17°13	27°10	4°53	1°24	9°42	14°23	6°41	8° 6	25° 4	4°15	M26
T 27	6 22 47	5°27'16	19°41	19°43	11°33	17°42	27° 5	5° 0	1°27	9°44	14°25	6°37	8° 3	25°10	4°11	T 27
W28	6 26 44	6°28'24	1 M 46	21°16	12°48	18°12	27° 1	5° 7	1°31	9°46	14°27	6°D35	8° 0	25°17	4° 7	W28
T 29	6 30 40	7°29'32	13°41	22°49	14° 3	18°42	26°56	5°14	1°34	9°48	14°29	6°36	7°57	25°23	4° 3	T 29
F 30	6 34 37	8°30'40	25°30	24°21	15°18	19°12	26°52	5°21	1°38	9°51	14°30	6°36	7°54	25°30	3°59	F 30
S 31	6 38 33	9 ප 31'49	7 ≙ 18	25 る 52	16 × 33	19 Y 42	26 8 48	5 る 29	1 る 42	9 궁 53	14ML32	6°R37	7 ∺ 50	25 m 37	3956	S 31

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T 1 F 2	21 s48 21 57	9n38 4 11		22 s32 22 53	0 s47 0 53		1n45 1 44	2n12 2 23	0 s24 0 22			22 s40 22 40		23 s39 23 40			0n55 0 55	1s 8 15n27 1 9 15 27	8s 0 8 0	8 s 2 8 3		16n34 16 34	6 s 4 5 6 4 6
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S 4	22 14	6 58	2 40	23 29	1 4	14 6	1 42	2 45	0 17	19 5	1 0	22 40	0 45	23 40	0 13	22 14	0 55	1 10 15 27	8 1	8 6	1 50	16 33	6 46
M 5	22 22	12 22	3 30	23 46	1 10	14 29	1 41	2 56	0 15			22 40		23 40			0 55	1 10 15 27	8 3	8 7	1 47	16 33	6 47
T 6		17 23		24 2	1 16	-	1 39	3 7	0 12			22 40		23 40			0 55	1 10 15 28	8 6	8 8		16 33	6 47
W 7	22 37	-		_	1 21	15 14	1 38	3 19	0 10	-	1 0			23 40			0 55	1 11 15 28	8 10	8 9	-	16 33	6 47
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	22 49			24 41	1 31		1 35	3 42		18 58		22 40		23 40			0 55	1 12 15 28	8 20	8 12		16 33	6 48
S 10	22 55	28 9	4 44	24 51	1 36	16 20	1 34	3 53	0 4	18 56	0 59	22 40	0 45	23 40	0 13	22 13	0 54	1 12 15 29	8 25	8 13	1 30	16 33	6 48
S 11	23 0	27 9	4 12	25 0	1 40	16 41	1 32	4 5	0 2	18 55	0 59	22 40	0 45	23 39	0 13	22 13	0 54	1 12 15 29	8 29	8 14	1 26	16 32	6 48
	23 5	24 29	3 26	25 8	1 45	17 1	1 31	4 17		18 54		22 40	0 44	23 39	0 13	22 13	0 54	1 13 15 29	8 33	8 15	1 23	16 32	6 49
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	-	15 4		25 19	1 52		1 28	4 40	0 4			22 40		23 39			0 54	1 13 15 30	8 36	8 18		16 32	6 49
	23 16	8 58		25 22	1 56		1 26	4 52	0 6		0 58			23 39			0 54	1 13 15 30	8 36	8 19	-	16 32	6 49
	23 19	2 26		25 24	1 59		1 24	5 4	0 8	18 49		22 39		23 39			0 54	1 14 15 30	8 36	8 20	1 9		6 49
S 17	23 22	4n13	2 20	25 25	2 2	18 37	1 22	5 17	0 10	18 47	0 58	22 39	0 44	23 39	0 13	22 13	0 54	1 14 15 30	8 36	8 21	1 6	16 32	6 50
S 18	23 23	10 40	3 21	25 24	2 5	18 55	1 20	5 29	0 11	18 46	0 57	22 39	0 44	23 39	0 13	22 12	0 54	1 14 15 31	8 37	8 22	1 2	16 32	6 50
M19	23 25	16 34	4 10	25 22	2 7	19 12	1 18	5 41	0 13	18 45	0 57	22 39	0 44	23 39	0 13	22 12	0 54	1 14 15 31	8 39	8 24	0 59	16 32	6 50
T 20	23 26	21 34	4 44	25 18	2 9	19 29	1 16	5 53	0 15	18 44	0 57	22 39	0 44	23 39	0 13	22 12	0 54	1 15 15 31	8 41	8 25	0 55	16 32	6 50
W21	23 26	25 20	5 1	25 13	2 10	19 45	1 14	6 6	0 17	18 43	0 57	22 39	0 44	23 39	0 13	22 12	0 54	1 15 15 32	8 45	8 26	0 52	16 32	6 50
	23 27	27 34	5 0	25 6	2 11	20 0	1 12	6 18	0 18	18 42	0 56	22 38	0 44	23 39	0 13	22 12	0 54	1 15 15 32	8 49	8 27	0 49	16 32	6 50
_		28 8	4 42	24 57	2 12	20 15	1 10	6 31		18 41		22 38		23 39			0 54	1 15 15 32	8 54	8 28	0 45	16 32	6 50
S 24	23 25	27 3	4 9	24 47	2 12	20 30	1 8	6 43	0 21	18 40	0 56	22 38	0 44	23 39	0 13	22 12	0 54	1 15 15 33	8 58	8 30	0 42	16 32	6 51
S 25	23 24	24 31	3 24	24 36	2 12	20 44	1 6	6 56	0 23	18 39	0 56	22 38	0 44	23 39	0 13	22 11	0 54	1 16 15 33	9 1	8 31	0 38	16 32	6 51
M26	23 22	20 51	2 30	24 23	2 11	20 57	1 3	7 8	0 24	18 38	0 56	22 38	0 43	23 39	0 13	22 11	0 54	1 16 15 33	9 4	8 32	0 35	16 32	6 51
T 27	23 20	16 20	1 29	24 8	2 10	21 10	1 1	7 21	0 26	18 37	0 55	22 38	0 43	23 39	0 13	22 11	0 54	1 16 15 34	9 5	8 33	0 32	16 32	6 51
W28	23 17	11 15	0 26	23 52	2 8	21 22	0 59	7 33	0 27	18 36	0 55	22 37	0 43	23 39	0 13	22 11	0 54	1 16 15 34	9 6	8 34	0 28	16 32	6 51
	23 14	5 50		23 35		21 33	0 56	7 46	0 29	18 35	0 55	22 37	0 43	23 39			0 54	1 16 15 35	9 6	8 35	0 25	16 32	6 51
	23 10	0 16	1 40	23 16	-	21 44	0 54	7 59	0 30	18 35		22 37		23 39		22 11	0 54	1 16 15 35		8 37	0 21	16 32	6 51
S 31	23 s 6	5 s18	2 s 3 7	22 s 5 6	1 s59	21 s54	0n52	8n11	0n31	18n34	0 s54	22 s37	0n43	23 s39	0s13	22 s10	0n54	1s16 15n35	9s 5	8 s38	0n18	16n32	6 s 5 1

Julian Day Number = 2447496.5, Delta T = 56.26 sec Ecliptic obliquity = $23^{\circ}26'35$, Nutation = $0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}35'08$, Lahiri = $23^{\circ}42'08$