

# Astrodienst Ephemeris Tables for the year 1989

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 1989 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	卉	В	ស	v	Ç	ķ	Day
S 1	6 42 30	10る32'59	19 <b>≏</b> 11	27 <b>중</b> 21	17 <b>∡</b> 748	20 <b>Υ</b> 12	26°R44	5 <b>云</b> 36	1 <b>る</b> 45	9 <b>궁</b> 55	14 <b>M</b> .33	6°R37	7 <b>){</b> 47	25 m/43	3°R52	S 1
M 2	6 46 26	11°34'08	1 <b>M</b> .14	28°49	19° 3	20°43	26840	5°43	1°49	9°58	14°35	6 <b>)</b> €34	7°44	25°50	39548	M 2
T 3	6 50 23	12°35'18	13°32	0≈15	20°18	21°14	26°36	5°50	1°52	10° 0	14°36	6°30	7°41	25°57	3°44	T 3
W 4	6 54 19	13°36'29	26° 9	1°39	21°33	21°45	26°33	5°57	1°56	10° 2	14°38	6°23	7°38	26° 3	3°40	W 4
T 5	6 58 16	14°37'39	9 <b>.</b> ₹ 8	3° 1	22°48	22°16	26°30	6° 4	2° 0	10° 4	14°39	6°15	7°35	26°10	3°36	T 5
F 6	7 2 13	15°38'50	22°29	4°19	24° 3	22°47	26°26	6°11	2° 3	10° 7	14°41	6° 6	7°31	26°17	3°32	F 6
S 7	7 6 9	16°40'01	6 <b>ප</b> 12	5°33	25°18	23°19	26°24	6°18	2° 7	10° 9	14°42	5°57	7°28	26°23	3°28	S 7
S 8	7 10 6	17°41'11	20°13	6°44	26°33	23°50	26°21	6°25	2°10	10°11	14°44	5°49	7°25	26°30	3°25	S 8
M 9	7 14 2	18°42'22	4≈28	7°49	27°48	24°22	26°19	6°32	2°14	10°13	14°45	5°43	7°22	26°37	3°21	M 9
T 10	7 17 59	19°43'32	18°52	8°48	29° 3	24°54	26°16	6°39	2°17	10°16	14°46	5°39	7°19	26°43	3°17	T 10
W11	7 21 55	20°44'41	3 <b>∺</b> 18	9°41	0 <b>궁</b> 18	25°26	26°14	6°46	2°21	10°18	14°48	5°D38	7°16	26°50	3°13	W11
T 12	7 25 52	21°45'50	17°43	10°26	1°33	25°59	26°13	6°53	2°24	10°20	14°49	5°39	7°12	26°57	3°10	T 12
F 13	7 29 48	22°46'59	2 <b>Υ</b> 2	11° 2	2°49	26°31	26°11	7° 0	2°28	10°22	14°50	5°40	7° 9	27° 3	3° 6	F 13
S 14	7 33 45	23°48'06	16°13	11°30	4° 4	27° 4	26°10	7° 7	2°31	10°25	14°51	5°41	7° 6	27°10	3° 2	S 14
S 15	7 37 42	24°49'13	0814	11°47	5°19	27°36	26° 8	7°14	2°35	10°27	14°53	5°R41	7° 3	27°17	2°59	S 15
M16	7 41 38	25°50'20	14° 6	11°R54	6°34	28° 9	26° 7	7°21	2°38	10°29	14°54	5°40	7° 0	27°23	2°55	M16
T 17	7 45 35	26°51'25	27°46	11°49	7°49	28°42	26° 7	7°27	2°41	10°31	14°55	5°36	6°56	27°30	2°52	T 17
W18	7 49 31	27°52'30	11 <b>I</b> I16	11°32	9° 4	29°15	26° 6	7°34	2°45	10°33	14°56	5°31	6°53	27°37	2°48	W18
T 19	7 53 28	28°53'34	24°33	11° 4	10°19	29°49	26° 6	7°41	2°48	10°36	14°57	5°25	6°50	27°43	2°45	T 19
F 20	7 57 24	29°54'37	7938	10°24	11°34	0822	26°D 5	7°48	2°51	10°38	14°58	5°19	6°47	27°50	2°42	F 20
S 21	8 1 21	0≈55'40	20°29	9°34	12°49	0°55	26° 6	7°54	2°55	10°40	14°59	5°13	6°44	27°57	2°38	S 21
S 22	8 5 18	1°56'41	3 <b>N</b> 7	8°35	14° 5	1°29	26° 6	8° 1	2°58	10°42	15° 0	5° 8	6°41	28° 3	2°35	S 22
M23	8 9 14	2°57'42	15°31	7°28	15°20	2° 3	26° 6	8° 8	3° 1	10°44	15° 1	5° 4	6°37	28°10	2°32	M23
T 24	8 13 11	3°58'42	27°43	6°16	16°35	2°36	26° 7	8°15	3° 5	10°46	15° 1	5° 2	6°34	28°16	2°28	T 24
W25	8 17 7	4°59'42	9 <b>m</b> /44	5° 1	17°50	3°10	26° 8	8°21	3° 8	10°49	15° 2	5°D 2	6°31	28°23	2°25	W25
T 26	8 21 4	6° 0'41	21°37	3°44	19° 5	3°44	26° 9	8°28	3°11	10°51	15° 3	5° 3	6°28	28°30	2°22	T 26
F 27	8 25 0	7° 1'39	3 <b>≏</b> 26	2°29	20°20	4°18	26°10	8°34	3°14	10°53	15° 4	5° 5	6°25	28°36	2°19	F 27
S 28	8 28 57	8° 2'36	15°14	1°17	21°35	4°53	26°12	8°41	3°17	10°55	15° 5	5° 7	6°22	28°43	2°16	S 28
S 29	8 32 53	9° 3'33	27° 6	0°11	22°50	5°27	26°13	8°47	3°20	10°57	15° 5	5° 8	6°18	28°50	2°13	S 29
M30	8 36 50	10° 4'30	9M 8	29 <b>云</b> 11	2 <u>4</u> ° 6	6° 1	26°15	8°54	<u>3°23</u>	1 <u>0</u> °59	15° 6	5°R 9	6°15	28°56	2°11	M30
T 31	8 40 47	11≈ 5'25	21 <b>M</b> 24	28 <b>궁</b> 18	25 <b>පි</b> 21	6 <b>8</b> 36	26817	9 <b>ろ</b> 0	3 <b>る</b> 27	11중 1	15 <b>M</b> 7	5 <b>)</b> 9	6 <b>₩</b> 12	29 Mp 3	295 8	T 31

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S 1 M 2					8n24 0n33 8 37 0 34				22 s10 0n54 22 10 0 54	1s16 15n36 1 16 15 36			16n32 6s51 16 32 6 51
	22 45	24 11 5 2	21 22 1 3	37 22 29 0 42	9 2 0 36	18 31 0 53	22 36 0 43	23 39 0 13 23 39 0 13	22 10 0 54	1 16 15 37 1 16 15 37	9 10 8	3 43 0 4	16 33 6 51 16 33 6 51
F 6	22 38 22 32 22 24		20 56 1 2 20 29 1 2 20 2 1 1	21 22 42 0 37	9 28 0 39	18 30 0 53	22 35 0 43	23 39 0 13 23 39 0 13 23 39 0 13	22 9 0 54	1 16 15 37 1 16 15 38 1 16 15 38	9 17 8	45 0s 3	16 33 6 51 16 33 6 51 16 33 6 51
S 8	22 16	25 33 3 40	19 34 1	1 22 52 0 32	9 53 0 41	18 30 0 52	22 35 0 43	23 39 0 13	22 9 0 54	1 16 15 39	9 23 8	3 47 0 9	16 33 6 51
T 10	22 0		18 39 0 3	49 22 56 0 29 1 36 23 0 0 26 1 23 23 3 0 24 1		18 29 0 52	22 34 0 43	23 39 0 13 23 39 0 13 23 39 0 13	22 9 0 54	1 16 15 39 1 16 15 39 1 16 15 40	9 26 8	50 0 16	16 33 6 51 16 34 6 51 16 34 6 51
T 12	21 41 21 31	3 52 ln 5	17 45 0	8 23 5 0 21 1	0 44 0 45	18 29 0 51	22 33 0 42	23 39 0 13 23 38 0 13	22 8 0 54	1 16 15 40 1 16 15 41	9 27 8	52 0 23	16 34 6 50 16 34 6 50
	21 21 21 10		16 57 0 2 16 35 0 4	24 23 7 0 16 1 41 23 7 0 13 1				23 38 0 13 23 38 0 13		1 16 15 41 1 16 15 42			16 34 6 50 16 35 6 50
	20 59 20 47			59 23 6 0 11 1	1 35 0 49		22 32 0 42	23 38 0 13 23 38 0 13	22 8 0 54	1 16 15 42 1 15 15 43			16 35 6 50 16 35 6 50
T 19	20 35 20 23	28 13 4 54	15 37 1 5	55 23 0 0 3 1			22 31 0 42	23 38 0 13	22 7 0 54	1 15 15 43 1 15 15 44	9 32 9	0 0 47	16 35 6 50 16 36 6 49
S 21	20 10 19 57	25 30 3 39	15 27 2 3	30 22 52 0s 2 1	2 38 0 54	18 29 0 49	22 30 0 42	23 38 0 13 23 38 0 13	22 7 0 54	1 15 15 44 1 15 15 45	9 34 9 9 36 9	3 0 54	16 36 6 49 16 36 6 49
S 22 M23 T 24		17 51 1 45	5 15 28 2 4 5 15 31 2 5 6 15 37 3 1	59 22 41 0 7 1	3 3 0 55	18 30 0 48	22 30 0 42	23 38 0 13 23 38 0 13 23 38 0 13	22 7 0 54	1 15 15 45 1 14 15 46 1 14 15 46	9 38 9 9 39 9 9 40 9	5 1 (	1 16 36 6 49 1 16 37 6 49 1 16 37 6 48
W25 T 26	19 1 19 1 18 46	7 31 0s26	15 46 3 2		3 28 0 57	18 31 0 48	22 29 0 42	23 38 0 13 23 38 0 13 23 38 0 13	22 6 0 54	1 14 15 46 1 14 15 47	9 40 9 9 40 9	7 1 7	16 37 6 48 16 38 6 48
F 27 S 28	18 31 18 16	3 s 3 9 2 3 0 9 7 3 2 3		33 22 11 0 17 1	3 52 0 58	18 32 0 47	22 28 0 42	23 38 0 13 23 38 0 13		1 13 15 47 1 13 15 48			16 38 6 48 16 38 6 47
	18 0 17 43 17 s27	19 1 4 43	16 51 3 3	35 21 52 0 22 1 33 21 42 0 25 1 128 21 s31 0 s27 1	4 29 1 1	18 34 0 46	22 27 0 42	23 38 0 14 23 37 0 14 23 s37 0 s14		1 13 15 48 1 12 15 49 1 s12 15 n49	9 37 9	13 1 24	16 39 6 47 16 39 6 47 16n39 6 846

Julian Day Number = 2447527.5, Delta T = 56.30 sec Ecliptic obliquity = 23°26'35, Nutation =  $0^{\circ}00'07$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}35'12$ , Lahiri =  $23^{\circ}42'12$ 

FEBRUARY 1989 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	卉	Р	v	ນ	Ç	ķ	Day
W 1	8 44 43	12≈ 6'20	3 <b>√</b> 58	27°R34	26 <b>궁</b> 36	7 <b>8</b> 10	26820	9 <b>ප</b> 6	3 <b>る</b> 30	11중 3	15 <b>M</b> 7	5°R 7	6 <b>∺</b> 9	29 <b>m</b> 10	2°R 5	W 1
T 2	8 48 40	13° 7'14	16°55	26 <b>궁</b> 58	27°51	7°45	26°22	9°13	3°33	11° 5	15° 8	5 <b>米</b> 5	6° 6	29°16	299 2	T 2
F 3	8 52 36	14° 8'07	0 <b>궁</b> 17	26°31	29° 6	8°19	26°25	9°19	3°36	11° 7	15° 8	5° 2	6° 2	29°23	2° 0	F 3
S 4	8 56 33	15° 9'00	14° 5	26°12	0≈21	8°54	26°28	9°25	3°38	11° 9	15° 9	4°58	5°59	29°30	1°57	S 4
S 5	9 0 29	16° 9'51	28°17	26° 2	1°36	9°29	26°31	9°31	3°41	11°11	15° 9	4°56	5°56	29°36	1°55	S 5
M 6	9 4 26	17°10'41	12≈50	25°D59	2°51	10° 4	26°34	9°38	3°44	11°13	15° 9	4°54	5°53	29°43	1°53	M 6
T 7	9 8 22	18°11'31	27°36	26° 4	4° 6	10°39	26°37	9°44	3°47	11°15	15°10	4°D53	5°50	29°50	1°50	T 7
W 8	9 12 19	19°12'18	12 <b>)</b> 29	26°16	5°22	11°14	26°41	9°50	3°50	11°17	15°10	4°53	5°47	29°56	1°48	W 8
T 9	9 16 16	20°13'04	27°21	26°34	6°37	11°49	26°45	9°56	3°53	11°19	15°10	4°54	5°43	0 <b>₽</b> 3	1°46	T 9
F 10	9 20 12	21°13'49	12 <b>°</b> 5	26°58	7°52	12°24	26°49	10° 2	3°55	11°20	15°11	4°55	5°40	0°10	1°44	F 10
S 11	9 24 9	22°14'32	26°34	27°27	9° 7	13° 0	26°53	10° 8	3°58	11°22	15°11	4°56	5°37	0°16	1°42	S 11
S 12	9 28 5	23°15'14	10847	28° 2	10°22	13°35	26°57	10°13	4° 1	11°24	15°11	4°57	5°34	0°23	1°40	S 12
M13	9 32 2	24°15'54	24°40	28°41	11°37	14°10	27° 2	10°19	4° 4	11°26	15°11	4°R57	5°31	0°30	1°38	M13
T 14	9 35 58	25°16'32	8 <b>Ⅱ</b> 14	29°24	12°52	14°46	27° 7	10°25	4° 6	11°28	15°11	4°57	5°28	0°36	1°36	T 14
W15	9 39 55	26°17'09	21°30	0≈12	14° 7	15°21	27°12	10°31	4° 9	11°29	15°11	4°56	5°24	0°43	1°35	W15
T 16	9 43 51	27°17'44	49529	1° 3	15°22	15°57	27°17	10°36	4°11	11°31	15°R11	4°55	5°21	0°50	1°33	T 16
F 17	9 47 48	28°18'17	17°13	1°57	16°37	16°32	27°22	10°42	4°14	11°33	15°11	4°54	5°18	0°56	1°31	F 17
S 18	9 51 45	29°18'48	29°43	2°54	17°52	17° 8	27°28	10°47	4°16	11°35	15°11	4°53	5°15	1° 3	1°30	S 18
S 19	9 55 41	0 <b>¥</b> 19'18	120 2	3°54	19° 7	17°44	27°33	10°53	4°19	11°36	15°11	4°53	5°12	1°10	1°29	S 19
M20	9 59 38	1°19'46	24°11	4°57	20°22	18°20	27°39	10°58	4°21	11°38	15°11	4°52	5° 8	1°16	1°27	M20
T 21	10 3 34	2°20'12	6 <b>m</b> 13	6° 2	21°37	18°55	27°45	11° 3	4°23	11°40	15°11	4°D52	5° 5	1°23	1°26	T 21
W22	10 7 31	3°20'37	18° 7	7° 9	22°52	19°31	27°51	11° 9	4°26	11°41	15°11	4°52	5° 2	1°30	1°25	W22
T 23	10 11 27	4°21'00	29°58	8°18	24° 7	20° 7	27°57	11°14	4°28	11°43	15°11	4°R52	4°59	1°36	1°24	T 23
F 24	10 15 24	5°21'22	11 <b>≏</b> 46	9°30	25°22	20°43	28° 4	11°19	4°30	11°44	15°10	4°52	4°56	1°43	1°23	F 24
S 25	10 19 20	6°21'42	23°36	10°43	26°37	21°19	28°10	11°24	4°32	11°46	15°10	4°52	4°53	1°50	1°22	S 25
S 26	10 23 17	7°22'01	5 <b>M</b> 29	11°58	27°52	21°55	28°17	11°29	4°34	11°47	15°10	4°52	4°49	1°56	1°21	S 26
M27	10 27 14	8°22'18	17°31	13°14	29° 7	22°31	28°24	11°34	4°36	11°49	15° 9	4°52	4°46	2° 3	1°20	M27
T 28	10 31 10	9 <b>)</b> 22'34	29 <b>M</b> 45	14≈32	0 <b>∺</b> 22	238 7	28 <b>8</b> 31	11 <b>る</b> 39	4 <b>궁</b> 38	11 <b>궁</b> 50	15 <b>M</b> 9	4 <b>∺</b> 51	4 <b>) (</b> 43	2 <b>₽</b> 10	19520	T 28

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W 1	17s10	26s 6	5s15	17s21	3n22	21 s19	0 s29	14n53	1n 2	18n35	0 s46	22 s26	0n42	23 s37	0s14	22 s 5	0n54	1 s12	15n50	9 s38	9s15	1 s 3 1	16n40	6 s46
T 2	16 53	27 55	5 8	17 35	3 15	21 7	0 32	15 5	1 3	18 36	0 46	22 26	0 42	23 37	0 14	22 5	0 54	1 11	15 50	9 39	9 17	1 34	16 40	6 46
F 3	16 35	28 12	4 45	17 48	3 6	20 54	0 34	15 17	1 3	18 37	0 45	22 26	0 42	23 37	0 14	22 5	0 54	1 11	15 51	9 40	9 18	1 38	16 40	6 45
S 4	16 18	26 45	4 5	18 1	2 57	20 40	0 36	15 28	1 4	18 38	0 45	22 25	0 41	23 37	0 14	22 5	0 54	1 11	15 51	9 41	9 19	1 41	16 41	6 45
S 5	16 0	23 35	3 9	18 14	2 46	20 26	0 38	15 40	1 4	18 39	0 45	22 25	0 41	23 37	0 14	22 4	0 54	1 10	15 52	9 42	9 20	1 45	16 41	6 45
M 6	15 41	18 52	1 59	18 25	2 35	20 11	0 41	15 52	1 5	18 40	0 45	22 24	0 41	23 37	0 14	22 4	0 54	1 10	15 52	9 43	9 21	1 48	16 41	6 44
T 7	15 23	12 56	0 40	18 35	2 24	19 55	0 43	16 3	1 6	18 41	0 44	22 24	0 41	23 37	0 14	22 4	0 54	1 10	15 53	9 43	9 23	1 51	16 42	6 44
W 8	15 4	6 14	0n42	18 44	2 12	19 39	0 45	16 15	1 6	18 42	0 44	22 24	0 41	23 37	0 14	22 4	0 54	1 9	15 53	9 43	9 24	1 55	16 42	6 44
T 9	14 45	0n48	2 1	18 52	2 0	19 23	0 47	16 26	1 7	18 43	0 44	22 23	0 41	23 37	0 14	22 4	0 54	1 9	15 54	9 43	9 25	1 58	16 43	6 43
F 10	14 26	7 43	3 12	19 0	1 49	19 6	0 49	16 38	1 7	18 44	0 44	22 23	0 41	23 37	0 14	22 4	0 54	1 8	15 54	9 43	9 26	2 2	16 43	6 43
S 11	14 6	14 7	4 9	19 5	1 37	18 48	0 51	16 49	1 8	18 46	0 43	22 22	0 41	23 37	0 14	22 3	0 54	1 8	15 55	9 42	9 27	2 5	16 43	6 43
S 12	13 46	19 38	4 49	19 10	1 25	18 30	0 53	17 0	1 8	18 47	0 43	22 22	0 41	23 37	0 14	22 3	0 54	1 8	15 55	9 42	9 28	2 8	16 44	6 42
M13	13 26	23 59	5 12	19 14	1 13	18 11	0 55	17 11	1 9	18 48	0 43	22 21	0 41	23 37	0 14	22 3	0 54	1 7	15 56	9 42	9 30	2 12	16 44	6 42
T 14	13 6	26 53	5 17	19 16	1 2	17 51	0 57	17 22	1 9	18 50	0 43	22 21	0 41	23 37	0 14	22 3	0 54	1 7	15 56	9 42	9 31	2 15	16 45	6 41
W15	12 45	28 14	5 4	19 17	0 51	17 32	0 58	17 33	1 10	18 51	0 42	22 21	0 41	23 36	0 14	22 3	0 54	1 6	15 57	9 42	9 32	2 18	16 45	6 41
T 16	12 25	27 58	4 36	19 17	0 40	17 11	1 0	17 44	1 10	18 52	0 42	22 20	0 41	23 36	0 14	22 3	0 54	1 6	15 57	9 43	9 33	2 22	16 46	6 41
F 17	12 4	26 13	3 55	19 16	0 29	16 50	1 2	17 55	1 11	18 54	0 42	22 20	0 41	23 36	0 14	22 2	0 54	1 5	15 58	9 43	9 34	2 25	16 46	6 40
S 18	11 43	23 12	3 3	19 13	0 18	16 29	1 4	18 5	1 11	18 55	0 42	22 19	0 41	23 36	0 14	22 2	0 54	1 5	15 58	9 43	9 35	2 29	16 46	6 40
S 19	11 22	19 10	2 4	19 9	0 8	16 7	1 5	18 16	1 11	18 57	0 41	22 19	0 41	23 36	0 14	22 2	0 54	1 4	15 59	9 43	9 36	2 32	16 47	6 39
M20	11 0	14 23	0 59	19 4	0s 2	15 45	1 7	18 26	1 12	18 58	0 41	22 19	0 41	23 36	0 14	22 2	0 54	1 4	15 59	9 44	9 38	2 35	16 47	6 39
T 21	10 39	9 7	0s 7	18 57	0 11	15 23	1 8	18 37	1 12	19 0	0 41	22 18	0 41	23 36	0 14	22 2	0 54	1 3	16 0	9 44	9 39	2 39	16 48	6 38
W22	10 17	3 35	1 13	18 49	0 21	15 0	1 10	18 47	1 13	19 1	0 41	22 18	0 41	23 36	0 14	22 2	0 54	1 3	16 0	9 44	9 40	2 42	16 48	6 38
T 23	9 55	2s 3	2 15	18 40	0 30	14 36	1 11	18 57	1 13	19 3	0 40	22 17	0 41	23 36	0 14	22 1	0 54	1 2	16 1	9 44	9 41	2 45	16 49	6 38
F 24	9 33	7 35	3 11	18 30	0 38	14 12	1 12	19 7	1 13	19 5	0 40	22 17	0 41	23 36	0 14	22 1	0 54	1 2	16 1	9 44	9 42	2 49	16 49	6 37
S 25	9 11	12 52	3 59	18 18	0 46	13 48	1 14	19 17	1 14	19 6	0 40	22 16	0 41	23 36	0 14	22 1	0 54	1 1	16 2	9 44	9 43	2 52	16 50	6 37
S 26	8 48	17 42	4 37	18 5	0 54	13 23	1 15	19 26	1 14	19 8	0 40	22 16	0 41	23 36	0 14	22 1	0 54	1 1	16 2	9 44	9 45	2 56	16 50	6 36
M27	8 26	21 54	5 3	17 50	1 2	12 58	1 16	19 36	1 14	19 10	0 40	22 16	0 41	23 36	0 14	22 1	0 54	1 0	16 3	9 44	9 46	2 59	16 51	6 36
T 28	8s 3	25 s15	5s16	17 s35	1s 9	12 s33	1s17	19n46	1n15	19n12	0 s39	22 s 15	0n41	$23\mathrm{s}36$	0s14	22 s 1	0n54	1s 0	16n 3	9 s44	9 s47	3 s 2	16n51	6 s 3 5

Julian Day Number = 2447558.5, Delta T = 56.34 sec Ecliptic obliquity =  $23^{\circ}26'35$ , Nutation =  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}35'16$ , Lahiri =  $23^{\circ}42'17$ 

MARCH 1989 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)f(	并	Р	r	Ω	Ç	, k	Day
W 1	10 35 7	10 <b>)</b> 22'48	12 <b>√</b> 15	15≈52	1 <b>) (</b> 37	23843	28 <b>8</b> 38	11 <b>る</b> 43	4 <b>る</b> 40	11 <b>궁</b> 51	15°R 9	4°D51	4 <b>) (</b> 40	2 <b>≏</b> 16	1°R19	W 1
T 2	10 39 3	11°23'01	25° 6	17°13	2°52	24°19	28°46	11°48	4°42	11°53	15 <b>M</b> 8	4 <b>米</b> 51	4°37	2°23	19519	T 2
F 3	10 43 0	12°23'12	8 <b>ප</b> 21	18°36	4° 7	24°56	28°53	11°53	4°44	11°54	15° 8	4°52	4°34	2°29	1°18	F 3
S 4	10 46 56	13°23'22	22° 2	20° 0	5°22	25°32	29° 1	11°57	4°46	11°56	15° 7	4°53	4°30	2°36	1°18	S 4
S 5	10 50 53	14°23'30	6≈11	21°25	6°37	26° 8	29° 9	12° 2	4°48	11°57	15° 7	4°54	4°27	2°43	1°18	S 5
M 6	10 54 49	15°23'37	20°44	22°52	7°51	26°45	29°17	12° 6	4°50	11°58	15° 6	4°54	4°24	2°49	1°18	M 6
T 7	10 58 46	16°23'42	5 <b>)</b> 38	24°19	9° 6	27°21	29°25	12°11	4°51	11°59	15° 5	4°R54	4°21	2°56	1°D18	T 7
W 8	11 2 43	17°23'45	20°45	25°48	10°21	27°57	29°33	12°15	4°53	12° 1	15° 5	4°54	4°18	3° 3	1°18	W 8
T 9	11 6 39	18°23'46	5 <b>Ƴ</b> 57	27°19	11°36	28°34	29°42	12°19	4°55	12° 2	15° 4	4°53	4°14	3° 9	1°18	T 9
F 10	11 10 36	19°23'45	21° 2	28°50	12°51	29°10	29°50	12°23	4°56	12° 3	15° 3	4°51	4°11	3°16	1°18	F 10
S 11	11 14 32	20°23'42	5 <b>8</b> 54	0 <b>∺</b> 23	14° 6	29°47	29°59	12°27	4°58	12° 4	15° 2	4°49	4° 8	3°23	1°19	S 11
S 12	11 18 29	21°23'36	20°24	1°57	15°20	0П23	0П 8	12°31	4°59	12° 5	15° 2	4°48	4° 5	3°29	1°19	S 12
M13	11 22 25	22°23'29	4∏30	3°32	16°35	1° 0	0°16	12°35	5° 1	12° 6	15° 1	4°46	4° 2	3°36	1°19	M13
T 14	11 26 22	23°23'20	18° 9	5° 8	17°50	1°36	0°26	12°39	5° 2	12° 7	15° 0	4°D45	3°59	3°43	1°20	T 14
W15	11 30 18	24°23'08	19523	6°45	19° 5	2°13	0°35	12°42	5° 3	12° 8	14°59	4°45	3°55	3°49	1°21	W15
T 16	11 34 15	25°22'54	14°15	8°24	20°20	2°49	0°44	12°46	5° 5	12° 9	14°58	4°46	3°52	3°56	1°21	T 16
F 17	11 38 12	26°22'38	26°48	10° 4	21°34	3°26	0°53	12°50	5° 6	12°10	14°57	4°48	3°49	4° 3	1°22	F 17
S 18	11 42 8	27°22'19	9 <b>Ω</b> 5	11°45	22°49	4° 3	1° 3	12°53	5° 7	12°11	14°56	4°49	3°46	4° 9	1°23	S 18
S 19	11 46 5	28°21'58	21°11	13°27	24° 4	4°39	1°13	12°56	5° 8	12°12	14°55	4°51	3°43	4°16	1°24	S 19
M20	11 50 1	29°21'35	3 <b>m</b> 9	15°11	25°18	5°16	1°22	13° 0	5° 9	12°13	14°54	4°R51	3°39	4°23	1°25	M20
T 21	11 53 58	0 <b>Υ</b> 21'10	15° 1	16°55	26°33	5°52	1°32	13° 3	5°10	12°14	14°53	4°51	3°36	4°29	1°27	T 21
W22	11 57 54	1°20'43	26°51	18°41	27°48	6°29	1°42	13° 6	5°11	12°14	14°52	4°49	3°33	4°36	1°28	W22
T 23	12 1 51	2°20'14	8 <b>≏</b> 40	20°29	29° 2	7° 6	1°52	13° 9	5°12	12°15	14°51	4°46	3°30	4°43	1°29	T 23
F 24	12 5 47	3°19'42	20°30	22°17	0 <b>Υ</b> 17	7°43	2° 2	13°12	5°13	12°16	14°50	4°42	3°27	4°49	1°31	F 24
S 25	12 9 44	4°19'09	2 <b>M</b> 24	24° 7	1°32	8°19	2°13	13°15	5°14	12°16	14°49	4°36	3°24	4°56	1°32	S 25
S 26	12 13 40	5°18'34	14°23	25°58	2°46	8°56	2°23	13°17	5°15	12°17	14°48	4°31	3°20	5° 3	1°34	S 26
M27	12 17 37	6°17'57	26°29	27°51	4° 1	9°33	2°34	13°20	5°15	12°18	14°46	4°26	3°17	5° 9	1°35	M27
T 28	12 21 34	7°17'19	8 <b>才</b> 46	29°44	5°15	10°10	2°44	13°23	5°16	12°18	14°45	4°21	3°14	5°16	1°37	T 28
W29	12 25 30	8°16'38	2 <u>1</u> °17	1 <b>Υ</b> 40	6°30	10°47	2°55	13°25	5°17	12°19	14°44	4°19	3°11	5°23	1°39	W29
T 30	12 29 27	9°15'56	4 <b>조</b> 4	3°36	7°44	11°23	3° 6	13°28	5°17	12°19	14°43	4°D17	3° 8	5°29	1°41	T 30
F 31	12 33 23	10 <b>Υ</b> 15'12	17 <b>る</b> 12	5 <b>Ƴ</b> 34	8 <b>Y</b> 59	12 <b>II</b> 0	3 <b>Ⅱ</b> 17	13 <b>る</b> 30	5 <b>る</b> 18	12 <b>る</b> 20	14 <b>M</b> .41	4 <b>∺</b> 17	3 <b>¥</b> 5	5 <b>₽</b> 36	19543	F 31

Day	0	D		ğ		ç	)	a	и	2	+	ŧ	1	);	ł(	<del>¥</del>		Р	V	v	Ç	Š	;
	decl	decl lat		decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl l	lat	decl lat	decl	decl	decl	decl	lat
W 1	7 s41	27 s28 5 s	s15 1	17s18	1s16	12s 7	1 s 1 8	19n55	1n15	19n13	0 s39	22 s15	0n41	23 s36	0s14	22 s 1	0n54	0s59 16n 4	9 s44	9 s48	3 s 6	16n51	6 s35
T 2	7 18	28 19 4	58 1	16 59	1 23	11 41	1 19	20 4	1 15	19 15	0 39	22 14	0 41	23 36	0 14	22 0	0 54	0 58 16 4	9 44	9 49	3 9	16 52	6 34
F 3	6 55	27 35 4	25 1	16 40	1 29	11 15		20 14	1 16	19 17	0 39	22 14	0 41			22 0	0 55	0 58 16 5		9 50	3 12	16 52	6 34
S 4	6 32	25 12 3	36 1	16 19	1 35	10 48	1 21	20 23	1 16	19 19	0 38	22 14	0 41	23 36	0 14	22 0	0 55	0 57 16 5	9 43	9 52	3 16	16 53	6 33
S 5	6 9	21 12 2	33 1	15 57	1 40	10 21	1 22	20 32	1 16	19 21	0 38	22 13	0 41	23 35	0 14	22 0	0 55	0 57 16 6	9 43	9 53	3 19	16 53	6 33
M 6	5 45	15 49 1	18 1	15 33	1 45	9 54	1 22	20 40	1 17	19 23	0 38	22 13	0 41	23 35	0 14	22 0	0 55	0 56 16 6	9 43	9 54	3 23	16 54	6 32
T 7	5 22	9 23 Or	n 4	15 9	1 50	9 26	1 23	20 49	1 17	19 25	0 38	22 13		23 35		22 0	0 55	0 56 16 6	9 43	9 55	3 26	16 54	6 32
W 8	4 59	2 20 1	27 1	14 43	1 54	8 59	1 24	20 58	1 17	19 27	0 38	22 12	0 41	23 35	0 14	22 0	0 55	0 55 16 7	9 43	9 56	3 29	16 55	6 31
T 9	4 35	4n52 2	44 1	14 16	1 58	8 31	1 24		1 17	19 29	0 37	22 12		23 35		22 0	0 55	0 54 16 7	9 43	9 57	3 33	16 55	6 31
F 10	4 12	11 44 3	49 1	13 47	2 2	8 3		21 14	1 18	19 31		22 11		23 35		21 59	0 55	0 54 16 8	9 44	9 59	3 36	16 56	6 30
S 11	3 48	17 50 4	37 1	13 17	2 5	7 34	1 25	21 22	1 18	19 33	0 37	22 11	0 41	23 35	0 14	21 59	0 55	0 53 16 8	9 45	10 0	3 39	16 56	6 30
S 12	3 25	22 46 5	6 1	12 46	2 8	7 6	1 26	21 30	1 18	19 35	0 37	22 11	0 41	23 35	0 14	21 59	0 55	0 53 16 9	9 45	10 1	3 43	16 57	6 30
M13	3 1	26 13 5	16 1	12 14	2 10	6 37	1 26	21 38	1 18	19 37	0 37	22 10	0 41	23 35	0 14	21 59	0 55	0 52 16 9	9 46	10 2	3 46	16 57	6 29
T 14	2 38	28 1 5	8 1	11 41	2 12	6 8	1 26	21 46	1 19	19 39	0 36	22 10	0 41	23 35	0 14	21 59	0 55	0 51 16 9	9 46	10 3	3 49	16 58	6 29
W15	2 14	28 9 4	43 1	11 6	2 13	5 39	1 26	21 54	1 19	19 41	0 36	22 10	0 41	23 35	0 14	21 59	0 55	0 51 16 10	9 46	10 4	3 53	16 58	6 28
T 16	1 50	-		10 30	2 15	5 9	1 26		1 19		0 36		0 41				0 55	0 50 16 10		10 5		16 59	6 28
F 17	1 26		-	9 53	2 15	4 40	1 26	-	1 19	-	0 36		0 41			21 59	0 55	0 49 16 11	9 45	10 7	3 59	16 59	6 27
S 18	1 3	20 12 2	17	9 15	2 15	4 10	1 26	22 15	1 19	19 47	0 36	22 9	0 41	23 35	0 14	21 59	0 55	0 49 16 11	9 45	10 8	4 3	17 0	6 27
S 19	0 39	15 37 1	15	8 35	2 15	3 41	1 26	22 22	1 19	19 50	0 35	22 8	0 41	23 35	0 14	21 58	0 55	0 48 16 11	9 44	10 9	4 6	17 0	6 26
M20	0 15	10 30 0	9	7 54	2 14	3 11	1 26	22 29	1 20	19 52	0 35	22 8	0 41	23 35	0 14	21 58	0 55	0 48 16 12	9 44	10 10	4 9	17 0	6 26
T 21	0n 8	5 3 0	s56	7 12	2 13	2 41			1 20	19 54	0 35	22 8	0 41			21 58	0 55	0 47 16 12	9 44	10 11	4 13	17 1	6 25
W22	0 32	0 s33 1	58	6 29	2 11	2 11		-		19 56	0 35		0 41	23 35	0 14	21 58	0 55	0 46 16 12	9 45	10 12	4 16	17 1	6 25
T 23	0 56			5 45	2 9	1 41	-	-		19 58	0 35		0 41				0 55	0 46 16 13			4 20	-	6 24
F 24	1 19		45	5 0	2 7	1 11				20 1	0 34			23 35		21 58	0 55	0 45 16 13			4 23		6 24
S 25	1 43	16 27 4	25	4 14	2 3	0 41	1 24	23 1	1 20	20 3	0 34	22 7	0 41	23 35	0 15	21 58	0 55	0 44 16 13	9 49	10 16	4 26	17 3	6 23
S 26	2 7	20 49 4	53	3 26	2 0	0 11			1 21	20 5	0 34	22 6	0 41	23 35	0 15	21 58	0 55	0 44 16 14	9 51	10 17	4 30	17 3	6 23
M27	2 30	24 23 5	9	2 37	1 56	0n19			1 21	20 7	0 34		0 41			21 58	0 55	0 43 16 14			4 33	17 4	6 22
T 28	2 54			1 48	1 51	0 49			1 21	20 9	0 34		0 41			21 58	0 55	0 42 16 14			4 36		6 22
W29	3 17			0 57	1 46	1 20			1 21	20 12	0 34		0 41			21 58	0 55	0 42 16 15			4 40		6 21
T 30	3 40		31	0 6	1 40	1 50				20 14	0 33		0 41			21 57	0 55	0 41 16 15			4 43		6 21
F 31	4n 4	26s 7 3s	s49	0n46	1 s34	2n20	1 s20	23n34	1n21	20n16	0 s33	22s 5	0n41	23 s35	0s15	21 s57	0n55	0s41 16n15	9 s 5 6	10 s23	4 s46	17n 5	6 s 2 0

Julian Day Number = 2447586.5, Delta T = 56.38 sec Ecliptic obliquity = 23°26'35, Nutation =  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}35'20$ , Lahiri =  $23^{\circ}42'21$ 

APRIL 1989 00:00 UT

VI 1/3	. L 130.	•													00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)ţ(	并	В	n	ß	Ç	ķ	Day
S 1	12 37 20	11 <b>Y</b> 14'26	0≈43	7 <b>Υ</b> 32	10 <b>Y</b> 13	12 <b>川</b> 37	3П28	13 <b>る</b> 32	5 <b>る</b> 18	12 <b>る</b> 20	14°R40	4 <b>)</b> €18	3 <b>∺</b> 1	5 <b>≏</b> 43	19545	S 1
S 2	12 41 16	12°13'39	14°39	9°32	11°28	13°14	3°39	13°34	5°19	12°21	14 <b>M</b> .39	4°20	2°58	5°49	1°47	S 2
M 3	12 45 13	13°12'49	29° 1	11°34	12°42	13°51	3°50	13°36	5°19	12°21	14°37	4°R21	2°55	5°56	1°49	M 3
T 4	12 49 9	14°11'58	13 <b>)</b> (46	13°36	13°57	14°28	4° 1	13°38	5°19	12°21	14°36	4°21	2°52	6° 3	1°52	T 4
W 5	12 53 6	15°11'05	28°50	15°39	15°11	15° 5	4°13	13°40	5°20	12°22	14°35	4°18	2°49	6° 9	1°54	W 5
T 6	12 57 3	16°10'10	14 <b>Y</b> 4	17°43	16°26	15°41	4°24	13°42	5°20	12°22	14°33	4°15	2°45	6°16	1°56	T 6
F 7	13 0 59	17° 9'13	29°18	19°47	17°40	16°18	4°36	13°43	5°20	12°22	14°32	4° 9	2°42	6°23	1°59	F 7
S 8	13 4 56	18° 8'14	14821	21°52	18°55	16°55	4°47	13°45	5°20	12°22	14°30	4° 2	2°39	6°29	2° 2	S 8
S 9	13 8 52	19° 7'13	29° 5	23°58	20° 9	17°32	4°59	13°46	5°R20	12°23	14°29	3°55	2°36	6°36	2° 4	S 9
M10	13 12 49	20° 6'10	13 <b>Ⅱ</b> 23	26° 3	21°23	18° 9	5°11	13°47	5°20	12°23	14°27	3°49	2°33	6°43	2° 7	M10
T 11	13 16 45	21° 5'04	27°12	28° 8	22°38	18°46	5°22	13°49	5°20	12°23	14°26	3°45	2°30	6°49	2°10	T 11
W12	13 20 42	22° 3'56	10932	0812	23°52	19°23	5°34	13°50	5°20	12°23	14°24	3°42	2°26	6°56	2°13	W12
T 13	13 24 38	23° 2'46	23°26	2°16	25° 6	20° 0	5°46	13°51	5°20	12°23	14°23	3°D42	2°23	7° 3	2°16	T 13
F 14	13 28 35	24° 1'34	5 <b>Ω</b> 57	4°18	26°21	20°37	5°58	13°52	5°19	12°R23	14°21	3°42	2°20	7° 9	2°19	F 14
S 15	13 32 32	25° 0'19	18°10	6°19	27°35	21°14	6°11	13°53	5°19	12°23	14°20	3°44	2°17	7°16	2°22	S 15
S 16	13 36 28	25°59'02	0 Mp 10	8°18	28°49	21°51	6°23	13°53	5°19	12°23	14°18	3°R44	2°14	7°23	2°25	S 16
M17	13 40 25	26°57'43	12° 3	10°15	0 <b>8</b> 3	22°28	6°35	13°54	5°19	12°23	14°17	3°44	2°11	7°29	2°29	M17
T 18	13 44 21	27°56'21	23°51	12° 9	1°18	23° 5	6°47	13°54	5°18	12°23	14°15	3°42	2° 7	7°36	2°32	T 18
W19	13 48 18	28°54'58	5 <b>₾</b> 39	14° 0	2°32	23°42	7° 0	13°55	5°18	12°23	14°13	3°37	2° 4	7°43	2°35	W19
T 20	13 52 14	29°53'32	17°29	15°49	3°46	24°19	7°12	13°55	5°17	12°22	14°12	3°30	2° 1	7°49	2°39	T 20
F 21	13 56 11	0 <b>8</b> 52'05	29°24	17°33	5° 0	24°56	7°25	13°55	5°17	12°22	14°10	3°21	1°58	7°56	2°42	F 21
S 22	14 0 7	1°50'35	11 <b>M</b> 25	19°14	6°14	25°33	7°37	13°56	5°16	12°22	14° 9	3°10	1°55	8° 3	2°46	S 22
S 23	14 4 4	2°49'04	23°33	20°52	7°28	26°10	7°50	13°R56	5°15	12°22	14° 7	2°59	1°51	8° 9	2°50	S 23
M24	14 8 1	3°47'31	5 <b>₹</b> 50	22°25	8°43	26°48	8° 3	13°56	5°15	12°21	14° 5	2°48	1°48	8°16	2°53	M24
T 25	14 11 57	4°45'57	18°17	23°54	9°57	27°25	8°15	13°55	5°14	12°21	14° 4	2°39	1°45	8°23	2°57	T 25
W26	14 15 54	5°44'21	0 <b>궁</b> 56	25°18	11°11	28° 2	8°28	13°55	5°13	12°21	14° 2	2°32	1°42	8°30	3° 1	W26
T 27	14 19 50	6°42'43	13°48	26°38	12°25	28°39	8°41	13°55	5°12	12°20	14° 0	2°27	1°39	8°36	3° 5	T 27
F 28	14 23 47	7°41'04	26°55	27°54	13°39	29°16	8°54	13°54	5°11	12°20	13°59	2°25	1°36	8°43	3° 9	F 28
S 29	14 27 43	8°39'23	10≈21	29° 5	14°53	29°53	9° 7	13°54	5°10	12°19	13°57	2°D24	1°32	8°50	3°13	S 29
S 30	14 31 40	9 <b>8</b> 37'40	24≈ 7	0 <b>Ⅱ</b> 11	16 <b>8</b> 7	0930	9Ⅱ20	13 <b>る</b> 53	5 <b>る</b> 9	12 <b>궁</b> 19	13 <b>M</b> 55	2 <b>∺</b> 25	1 <b>∺</b> 29	8 <b>≏</b> 56	39917	S 30

Day	0	D	ğ	Q	♂	4	1	t t	)វូ	(	<del>4</del>	Р	n s	S ¢	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl	lat	decl	lat	decl lat	decl lat	decl d	ecl de	cl decl lat
S 1	4n27	22 s49 2 s5	53 1n40 1s	s27 2n50 1s1	9 <mark>23n39</mark> 1n21	20n19 0 s	33 22 s 5	0n41	23 s35	0s15	21 s57 0n55	0s40 16n16	9 s 5 6 10	s24 4 s	50 17n 6 6s20
S 2	4 50	18 7 1 4	45 2 34 1	20 3 20 1 1	8 23 44 1 21	20 21 0	33 22 5	0 41	23 35	0 15	21 57 0 55	0 39 16 16	9 55 10	25 4	53 17 6 6 20
M 3	5 13	12 16 0 2	29 3 28 1	12 3 50 1 1	7 23 49 1 21	20 23 0	33 22 5	0 41	23 35	0 15	21 57 0 55	0 39 16 16	9 55 10	26 4	56 17 7 6 19
T 4	5 36	5 36 On5	51 4 23 1	4 4 20 1 1	6 23 53 1 22	20 25 0	33 22 4	0 41	23 35	0 15	21 57 0 55	0 38 16 16	9 55 10	27 5	0 17 7 6 19
W 5	5 59			55 4 50 1 1		20 28 0		-	23 35	-	21 57 0 55	0 38 16 17	9 56 10	-	3 17 8 6 18
T 6	6 22	8 36 3 1				20 30 0			23 35		21 57 0 55	0 37 16 17			6 17 8 6 18
F 7	6 44	-				20 32 0			23 35		21 57 0 55	0 36 16 17			9 17 8 6 17
S 8	7 7	20 46 4 5	51 8 7 0	26 6 18 1 1	1 24 9 1 22	20 34 0	32 22 4	0 40	23 35	0 15	21 57 0 55	0 36 16 17	10 2 10	32 5	13 17 9 6 17
S 9	7 29	24 57 5	8 9 3 0	16 6 48 1 1	0 24 13 1 22	20 37 0	32 22 4	0 40	23 35	0 15	21 57 0 55	0 35 16 17	10 4 10	33 5	16 17 9 6 16
M10	7 52	27 27 5	5 9 59 0	5 7 17 1	9 24 17 1 22	20 39 0	32 22 3	0 40	23 35	0 15	21 57 0 55	0 34 16 18	10 6 10	34 5	19 17 10 6 16
T 11	8 14	28 8 4 4	44 10 54 On	n 6 7 46 1	7 24 20 1 22	20 41 0	31 22 3	0 40	23 35	0 15	21 57 0 55	0 34 16 18	10 8 10	35 5	23 17 10 6 16
W12	8 36	27 8 4	8 11 48 0	17 8 15 1	6 24 23 1 22		-		23 35	0 15	21 57 0 55	0 33 16 18			26 17 10 6 15
T 13	8 58	24 42 3 2	20 12 42 0	28 8 43 1		20 46 0	31 22 3	0 40	23 35	0 15	21 57 0 55	0 33 16 18		38 5	29 17 11 6 15
F 14	9 19					20 48 0	-		23 35		21 57 0 55	0 32 16 18			33 17 11 6 14
S 15	9 41	16 42 1 2	23 14 25 0	50 9 40 1	1 24 31 1 22	20 50 0	31 22 3	0 40	23 35	0 15	21 57 0 55	0 32 16 19	10 9 10	40 5	36 17 12 6 14
S 16	10 2	11 43 0 1	19 15 14 1	1 10 8 0 5	9 24 34 1 22	20 52 0	31 22 3	0 40	23 35	0 15	21 57 0 55	0 31 16 19	10 8 10	41 5	39 17 12 6 13
M17	10 24	6 22 0s4	45 16 2 1	12 10 36 0 5	8 24 36 1 22	20 55 0	31 22 3	0 40	23 35	0 15	21 57 0 55	0 30 16 19	10 8 10	42 5	43 17 12 6 13
T 18	10 45	0 49 1 4	46 16 47 1	22 11 3 0 5	6 24 38 1 22	20 57 0	30 22 3	0 40	23 35	0 15	21 57 0 55	0 30 16 19	10 9 10	43 5	46 17 13 6 13
	11 5					20 59 0	30 22 3		23 35	0 15	21 57 0 55	0 29 16 19	10 11 10		19 17 13 6 12
T 20	11 26					21 1 0			23 35		21 57 0 56				52 17 13 6 12
F 21						21 3 0			23 35		21 57 0 56		10 17 10		56 17 14 6 11
S 22	12 7	19 44 4 4	42 19 27 2	0 12 51 0 4	8 24 44 1 22	21 6 0	30 22 3	0 40	23 35	0 15	21 57 0 56	0 28 16 19	10 21 10	48 5	59 17 14 6 11
S 23	12 27	23 30 5	0 20 1 2	7 13 17 0 4	6 24 45 1 22	21 8 0	30 22 3	0 40	23 35	0 15	21 57 0 56	0 27 16 19	10 25 10	49 6	2 17 14 6 11
M24	12 47	26 15 5	3 20 33 2	15 13 43 0 4	4 24 46 1 22	21 10 0	30 22 3	0 40	23 36	0 15	21 57 0 56	0 27 16 19	10 29 10	50 6	6 17 14 6 10
T 25	13 7	27 47 4 5	53 21 2 2	21 14 8 0 4	2 24 47 1 22	21 12 0	29 22 3	0 40	23 36	0 15	21 57 0 56	0 26 16 20	10 32 10	51 6	9 17 15 6 10
W26	13 26	27 54 4 2	28 21 28 2	27 14 33 0 4	0 24 48 1 22	21 14 0	29 22 3	0 40	23 36	0 15	21 57 0 56	0 26 16 20	10 34 10	52 6	12 17 15 6 10
T 27	13 45		- 1			21 16 0			23 36	-	21 57 0 56		10 36 10		16 17 15 6 9
F 28	14 5					21 19 0			23 36	-	21 57 0 56				19 17 16 6 9
S 29	14 23	19 29 1 5	55 22 32 2	38 15 46 0 3	4 24 49 1 22	21 21 0	29 22 3	0 40	23 36	0 15	21 57 0 56	0 24 16 20	10 37 10	56 6	22 17 16 6 8
S 30	14n42	14s10 0s4	44 22n48 2n	n40 16n10 0s3	1 <mark>24n49</mark> 1n22	21n23 0 s	29 22 s 3	0n40	23 s36	0s15	21 s57 0n56	0 s24 16n20	10 s37 10	s57 6 s	25 17n16 6s 8

Julian Day Number = 2447617.5, Delta T = 56.43 sec Ecliptic obliquity =  $23^{\circ}26'35$ , Nutation =  $0^{\circ}00'07$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}35'24$ , Lahiri =  $23^{\circ}42'25$ 

MAY 1989 00:00 UT

11/41	100														00.00	0.
Day	Sid.t	0	D	ğ	ρ	ď	4	ħ	)∤(	并	В	₽.	v	Ç	ķ	Day
M 1	14 35 36	10835'56	8 <b>)</b> 15	1 <b>I</b> I12	17821	199 7	9П33	13°R53	5°R 8	12°R18	13°R54	2°R25	1 <b>)</b> 26	9 <b>₾</b> 3	39521	M 1
T 2	14 39 33	11°34'11	22°44	2° 9	18°35	1°44	9°46	13 <b>る</b> 52	5ਰ 7	12 <b>궁</b> 18	13 <b>M</b> 52	2 <b>)</b> 23	1°23	9°10	3°25	T 2
W 3	14 43 30	12°32'24	7 <b>Υ</b> 31	3° 0	19°49	2°21	9°59	13°51	5° 6	12°17	13°50	2°19	1°20	9°16	3°30	W 3
T 4	14 47 26	13°30'35	22°31	3°46	21° 3	2°58	10°12	13°50	5° 5	12°17	13°48	2°13	1°16	9°23	3°34	T 4
F 5	14 51 23	14°28'45	7 <b>8</b> 35	4°27	22°17	3°35	10°26	13°49	5° 4	12°16	13°47	2° 4	1°13	9°30	3°38	F 5
S 6	14 55 19	15°26'53	22°34	5° 3	23°31	4°13	10°39	13°47	5° 2	12°15	13°45	1°54	1°10	9°36	3°43	S 6
S 7	14 59 16	16°25'00	7 <b>Ⅱ</b> 18	5°34	24°45	4°50	10°52	13°46	5° 1	12°15	13°43	1°43	1° 7	9°43	3°47	S 7
M 8	15 3 12	17°23'05	21°39	6° 0	25°59	5°27	11° 6	13°45	5° 0	12°14	13°42	1°33	1° 4	9°50	3°52	M 8
T 9	15 7 9	18°21'08	5933	6°20	27°12	6° 4	11°19	13°43	4°58	12°13	13°40	1°25	1° 1	9°56	3°56	T 9
W10	15 11 5	19°19'10	18°58	6°36	28°26	6°41	11°32	13°42	4°57	12°12	13°38	1°19	0°57	10° 3	4° 1	W10
T 11	15 15 2	20°17'09	1 <b>N</b> 56	6°46	29°40	7°18	11°46	13°40	4°56	12°12	13°37	1°16	0°54	10°10	4° 6	T 11
F 12	15 18 59	21°15'07	14°29	6°R51	0耳54	7°55	11°59	13°38	4°54	12°11	13°35	1°15	0°51	10°16	4°11	F 12
S 13	15 22 55	22°13'02	26°44	6°51	2° 8	8°33	12°13	13°36	4°52	12°10	13°33	1°15	0°48	10°23	4°15	S 13
S 14	15 26 52	23°10'56	8 <b>m</b> ) 44	6°46	3°22	9°10	12°26	13°34	4°51	12° 9	13°32	1°15	0°45	10°30	4°20	S 14
M15	15 30 48	24° 8'48	20°36	6°36	4°35	9°47	12°40	13°32	4°49	12° 8	13°30	1°14	0°42	10°36	4°25	M15
T 16	15 34 45	25° 6'39	2 <b>≏</b> 24	6°22	5°49	10°24	12°54	13°30	4°48	12° 7	13°28	1°11	0°38	10°43	4°30	T 16
W17	15 38 41	26° 4'27	14°13	6° 4	7° 3	11° 1	13° 7	13°28	4°46	12° 6	13°27	1° 5	0°35	10°50	4°35	W17
T 18	15 42 38	27° 2'14	26° 7	5°43	8°16	11°38	13°21	13°26	4°44	12° 5	13°25	0°56	0°32	10°56	4°40	T 18
F 19	15 46 34	28° 0'00	8 <b>M</b> . 8	5°18	9°30	12°16	13°35	13°23	4°42	12° 4	13°23	0°45	0°29	11° 3	4°45	F 19
S 20	15 50 31	28°57'44	20°18	4°50	10°44	12°53	13°48	13°21	4°41	12° 3	13°22	0°32	0°26	11°10	4°50	S 20
S 21	15 54 28	29°55'27	2 <b>√</b> 140	4°19	11°57	13°30	14° 2	13°18	4°39	12° 2	13°20	0°19	0°22	11°16	4°55	S 21
M22	15 58 24	0Ⅲ53'09	15°12	3°47	13°11	14° 7	14°16	13°16	4°37	12° 1	13°19	0° 6	0°19	11°23	5° 0	M22
T 23	16 2 21	1°50'49	2 <u>7</u> °55	3°13	14°25	14°44	14°30	13°13	4°35	12° 0	13°17	29≈54	0°16	11°30	5° 6	T 23
W24	16 6 17	2°48'28	10 <b>궁</b> 49	2°39	15°38	15°21	14°43	13°10	4°33	11°59	13°16	29°45	0°13	11°36	5°11	W24
T 25	16 10 14	3°46'06	23°55	2° 5	16°52	15°59	14°57	13° 8	4°31	11°57	13°14	29°39	0°10	11°43	5°16	T 25
F 26	16 14 10	4°43'43	7≈13	1°31	18° 5	16°36	15°11	13° 5	4°29	11°56	13°12	29°36	0° 7	11°50	5°21	F 26
S 27	16 18 7	5°41'19	20°44	0°59	19°19	17°13	15°25	13° 2	4°27	11°55	13°11	29°34	0° 3	11°56	5°27	S 27
S 28	16 22 3	6°38'54	4 <b>)</b> €29	0°28	20°33	17°50	15°39	12°59	4°25	11°54	13° 9	29°34	0° 0	12° 3	5°32	S 28
M29	16 26 0	7°36'29	18°29	29 <b>8</b> 59	21°46	18°27	15°52	12°55	4°23	11°52	13° 8	29°34	29≈57	12°10	5°38	M29
T 30	16 29 57	8°34'02	2 <b>Υ</b> 44	29°32	23° 0	19° 5	16° 6	12°52	4°21	11°51	13° 6	29°33	29°54	12°17	5°43	T 30
W31	16 33 53	9 <b>Ⅲ</b> 31'35	17 <b>Y</b> 12	29 <b>8</b> 9	24 <b>Ⅱ</b> 13	199542	16Ⅲ20	12 <b>る</b> 49	4 <b>る</b> 19	11 <b>る</b> 50	13 <b>M</b> 5	29≈29	29≈51	12 <b>≏</b> 23	59649	W31

Day	0	D	3	<b></b>	Ŷ		♂	2	4	ŧ	1	);	ł(	¥		В	ß	Ω	Ç	Š	
	decl	decl lat	decl	lat	decl	lat d	ecl lat	decl	lat	decl	lat	decl	lat	decl l	at	decl lat	decl	decl	decl	decl	lat
M 1	15n 0		1 23n 2			0s29 24	-	21n25		22 s 3		23 s36			0n56	0 s 2 3 1 6 n 2 (				17n16	6s 8
T 2	15 18		6 23 13			0 27 24		2 21 27	0 28			23 36		21 57	0 56		10 38			17 17	6 7
W 3 T 4	15 36		5 23 22			0 25 24		2 21 29	0 28			23 36		21 57	0 56		10 39			17 17	6 7
T 4 F 5	15 54 16 11		3 23 29 5 23 34			0 22 24 0 20 24		2 21 31 2 21 33	0 28 0 28			23 36 23 36			0 56 0 56		10 41 10 44			17 17 17 17	6 7
S 6			8 23 36			0 20 24 0 18 24		2 21 35	0 28			23 36			0 56	0 22 16 20		_		17 17	6 6
S 7	16 45	26 28 5	0 23 36	2 24	18 43	0 15 24	43 1 2	2 21 37	0 28	22 4	0 40	23 36	0.15	21 57	0 56	0 21 16 19	10 52	11 5	6 48	17 18	6 6
M 8			4 23 34			0 13 24		2 21 39				23 36			0 56	0 20 16 19				17 18	6 6
T 9	17 18	27 30 4 1	0 23 30	2 10	19 22	0 10 24		2 21 41	0 28	22 4	0 40	23 36	0 16	21 57	0 56	0 20 16 19	10 58	11 7	6 55	17 18	6 5
W10	17 34	25 28 3 2	4 23 24	2 1	19 41	0 8 24	38 1 22	2 21 43	0 28	22 4	0 40	23 37	0 16	21 57	0 56	0 20 16 19	11 0	11 8	6 58	17 18	6 5
T 11	17 49	22 9 2 2	9 23 16	1 51	20 0	0 6 24	36 1 22	2 21 45	0 27	22 5	0 40	23 37	0 16	21 57	0 56	0 19 16 19	11 1	11 9	7 1	17 18	6 5
F 12	18 5	17 53 1 2	8 23 6	1 40	20 17	0 3 24	34 1 2	21 47	0 27	22 5	0 40	23 37	0 16	21 57	0 56	0 19 16 19	11 2	11 10	7 5	17 18	6 4
S 13	18 20	12 59 0 2	4 22 54	1 28	20 35	0 1 24	31 1 2	21 49	0 27	22 5	0 40	23 37	0 16	21 57	0 56	0 18 16 19	11 2	11 12	7 8	17 19	6 4
S 14	18 34		0 22 40		20 51	0n 2 24		21 51	0 27			23 37			0 56	0 18 16 19		11 13		17 19	6 4
M15	18 49	2 11 1 4		-		0 4 24			0 27			23 37		21 58	0 56	0 18 16 19		11 14		17 19	6 4
T 16	19 3	3 s21 2 3			21 23	0 7 24			0 27			23 37		21 58	0 56	0 18 16 18		11 15		17 19	6 3
W17	19 17		6 21 49		21 38	0 9 24			0 27			23 37		21 58	0 56	0 17 16 18		-		17 19	6 3
T 18 F 19			7 21 29 7 21 8		21 53	0 11 24 0 14 24		21 58	0 27			23 37 23 37			0 56	0 17 16 18 0 17 16 18				17 19 17 19	6 3
S 20	19 43 19 56		7 21 8 5 20 46		22 7	0 14 24 0 16 24			0 26 0 26			23 37		21 58 21 58	0 56 0 56	0 17 16 18				17 19	6 3 6 2
				-																	-
S 21 M22	20 8 20 20		9 20 23 0 20 0		22 32 22 44	0 19 24 0 21 24	6 1 2 2 1 2		0 26 0 26			23 37 23 37		21 58 21 58	0 56	0 16 16 18 0 16 16 17				17 19 17 19	6 2
T 23	20 20					0 21 24 0 24 23		) 22 7	0 26			23 37		21 58	0 56 0 56		11 20			17 19	6 2
W24	20 32			_		0 24 23 0 26 23		22 7	0 26	_		23 38		21 58	0 56	0 15 16 17		_		17 19	6 2
T 25	20 43		6 18 49		23 16	0 28 23		22 10	0 26			23 38			0 56	0 15 16 17				17 19	6 1
		-	5 18 27	_	23 25	0 31 23		22 10	0 26			23 38		21 59	0 56	0 15 16 16		-		17 19	6 1
S 27	21 15				23 34	0 33 23		22 13	0 26			23 38			0 56	0 15 16 16				17 19	6 1
S 28	21 25	9 28 0n2	6 17 44	2 34	23 42	0 36 23	34 1 20	22 15	0 26	22 9	0 39	23 38	0 16	21 59	0 56	0 15 16 16	11 37	11 28	7 56	17 19	6 1
M29	21 35	3 3 1 3	8 17 24	2 48	23 49	0 38 23	29 1 20	22 16	0 25	22 10	0 39	23 38	0 16	21 59	0 56	0 15 16 16	11 38	11 29	8 0	17 19	6 1
T 30	21 44	3n37 2 4	6 17 6	3 1	23 56	0 40 23	24 1 20	22 18	0 25	22 10	0 39	23 38	0 16	21 59	0 56	0 14 16 15	11 38	11 31	8 3	17 19	6 0
W31	21n53	10n12 3n4	4 16n50	3 s 1 3	24n 1	0n42 23	118 1n20	22n19	0 s25	22 s 10	0n39	23 s38	0s16	21 s59	0n56	0s14 16n15	11 s39	11 s32	8s 6	17n19	6s 0

Julian Day Number = 2447647.5, Delta T = 56.47 sec Ecliptic obliquity =  $23^{\circ}26'35$ , Nutation =  $0^{\circ}00'07$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}35'28$ , Lahiri =  $23^{\circ}42'29$ 

JUNE 1989 00:00 UT

T 1 16 37 50 10II2906 1851 28°R49 25'II27 20519 16II34 12°R46 4°R17 11°R49 18°R 3 29°R22 29848 12£30 5554 T F 2 16414 46 11°2637 16°33 28'B33 26°40 20°56 16°48 12E342 4E515 11E347 13IL 2 298413 29°44 12°37 6° 0 F S 3 16 45 43 12°2408 1II12 28°21 27°54 21°33 17° 2 12°39 4°12 11°46 13° 1 29° 3 29°41 12°43 6° 5 S S 4 16 49 39 13°21'37 15°40 28°13 29° 7 22°11 17°16 12°35 4°10 11°45 12°59 28°52 29°38 12°50 6°11 S M 5 16 53 36 14°19'05 29°50 28°D10 0521 22°48 17°30 12°32 4° 8 11°43 12°58 28°41 29°35 12°57 6°16 M T 6 16 57 32 15°16'33 13538 28°10 13°4 23°25 17°44 12°25 4° 6 11°42 12°56 28°33 29°32 13° 3 6°22 T W 7 17 129 16°13'59 27° 1 28°16 24° 7 24° 2 17°58 12°24 4° 3 11°40 12°55 28°72 29°28 13°10 6°28 W T 8 17 526 17°11'24 96'58 28°39 5°14 25°17 18°25 12°17 3°59 11°38 12°52 28°22 29°22 13°23 6°39 F F 9 17 9 22 18° 8′48 22°34 28°39 5°14 25°17 18°25 12°17 3°59 11°38 12°52 28°22 29°22 13°23 6°39 F F 9 17 9 22 18° 8′48 22°34 28°39 5°14 25°17 18°25 12°17 3°59 11°38 12°52 28°22 29°16 13°37 6°51 S1 11′17 15 20° 3'33 16°52 29°21 7°41 26°32 18°53 12° 9 3°54 11°35 12°50 28°R22 29°16 13°37 6°51 S1 11′17 15 20° 3'33 16°52 29°21 7°41 26°32 18°53 12° 9 3°54 11°35 12°50 28°R22 29°16 13°37 6°51 S1 11′17 15 20° 3'33 16°52 29°21 7°41 26°32 18°53 12° 9 3°54 11°35 12°50 28°R22 29°16 13°37 6°51 S1 11′17 15 20° 3'33 16°52 29°21 7°41 26°32 18°53 12° 9 3°54 11°35 12°50 28°R22 29°16 13°37 6°51 S1 11′17 15 20° 3'33 16°52 29°21 7°41 26°32 18°53 12° 9 3°54 11°35 12°50 28°R22 29°16 13°37 6°51 S1 11′17 15 20° 3'33 16°52 29°21 7°41 26°32 18°53 12° 9 3°54 11°35 12°50 28°R22 29°16 13°37 6°51 S1 11′17 15 20° 3'33 16°52 29°21 7°41 26°32 18°53 12° 9 3°54 11°35 12°50 28°R22 29°16 13°37 6°51 S1 11′17 15 20° 3'33 16°52 29°21 7°41 26°32 18°53 11°57 3°47 11°30 12°46 28°16 29° 6 13°57 7° 8 W1 11′13 17 15° 8 21°58 14 10°43 12°40 14°4																	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	卉	Р	n	v	Ç	ę,	Day
S   3   16 45 43   12°24′08   1   11   12   28°21   27°54   21°33   17° 2   12°39   4°12   11°46   13° 1   29° 3   29°41   12°43   6° 5   S   S   4   16 49 39   13°21′37   15°40   28°10   09©21   22°48   17°30   12°32   4° 8   11°45   12°59   28°52   29°38   12°50   6°11   S   M   5   16 53 36   14°19′05   29°50   28°D10   09©21   22°48   17°30   12°32   4° 8   11°43   12°58   28°41   29°35   12°57   6°16   M   7   16 16 57 32   15°16′33   136°38   28°10   1°34   23°25   17°44   12°28   4° 6   11°42   12°56   28°33   29°32   13° 3   6°22   T   W   7   17   129   16°1359   27° 1   28°16   2°47   24° 2   17°58   12°24   4° 3   11°40   12°55   28°27   29°38   13°10   6°28   W   T   8   17   526   17°11′24   90°58   28°52   4° 1   24°40   18°11   12°21   4° 1   11°39   12°54   28°23   29°25   13°17   6°33   T   7   922   18° 848   22°34   28°39   5°14   25°17   18°25   12°17   3°59   11°38   12°52   28°22   29°22   13°23   6°39   F   S   10   17   13   19   19° 6′11   40°50   28°58   6°27   25°54   18°39   12°13   3°56   11°36   12°51   28°102   29°19   13°30   6°45   S   11′13   17   17   17   19   19° 6′11   40°50   28°58   6°27   25°54   18°39   12°13   3°56   11°36   12°51   28°102   29°19   13°30   6°45   S   11′13   17   17   17   17   17   17   17	T 1	16 37 50	10 <b>Ⅲ</b> 29'06	1 <b>8</b> 51	28°R49	25 <b>Ⅲ</b> 27	209519	16 <b>Ⅲ</b> 34	12°R46	4°R17	11°R49	13°R 3	29°R22	29≈48	12 <b>≏</b> 30	5 <b>9</b> 54	T 1
S         4         16499         13°21'37         15°40         28°13         29° 7         22°11         17°16         12°35         4°10         11°45         12°59         28°52         29°38         12°50         6°11         S           M 5         1653 36         14°1905         29°50         28°10         0921         22°48         17°30         12°32         4° 8         11°43         12°58         28°41         29°35         12°57         6°16         M           T 6         165732         15°1633         13638         28°10         1934         23°25         17°44         12°28         4° 6         11°43         12°56         28°33         29°32         13°10         6°28         W           T 9         17°124         9£8         28°25         4° 1         24°40         18°11         12°21         4° 1         11°39         12°54         28°23         29°25         13°17         6°33         T           F 9         17°92         18°848         22°34         28°39         5°14         25°17         18°25         12°17         3°59         11°38         12°52         28°22         29°21         13°30         6°35         S         11°31         12°54 <td>F 2</td> <td>16 41 46</td> <td></td> <td>16°33</td> <td>28<b>8</b>33</td> <td>26°40</td> <td>20°56</td> <td></td> <td>12<b>る</b>42</td> <td>4<b>궁</b>15</td> <td>11<b>궁</b>47</td> <td>13<b>M</b> 2</td> <td>29≈13</td> <td>29°44</td> <td>12°37</td> <td>6° 0</td> <td>F 2</td>	F 2	16 41 46		16°33	28 <b>8</b> 33	26°40	20°56		12 <b>る</b> 42	4 <b>궁</b> 15	11 <b>궁</b> 47	13 <b>M</b> 2	29≈13	29°44	12°37	6° 0	F 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	S 3	16 45 43	12°24'08	1 <b>I</b> I12	28°21	27°54	21°33	17° 2	12°39	4°12	11°46	13° 1	29° 3	29°41	12°43	6° 5	S 3
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					-		_		_		_		-				M 5
T 8   17   526   17°11'24   9Ω58   28°25   4° 1   24°40   18°11   12°21   4° 1   11°39   12°54   28°23   29°25   13°17   6°33   T F 9   17   922   18° 8′48   22°34   28°39   5°14   25°17   18°25   12°17   3°59   11°38   12°52   28°22   29°22   13°23   6°39   F S 10   17   13   19   19° 6′11   40°50   28°58   6°27   25°54   18°39   12°13   3°56   11°36   12°51   28°D22   29°19   13°30   6°45   S 1   17   17   15   20° 3′33   16°52   29°21   7°41   26°32   18°53   12° 9   3°54   11°35   12°50   28°R22   29°16   13°37   6°51   S 1   17   17   15   20° 3′33   16°52   29°49   8°54   27° 9   19° 7   12° 5   3°52   11°33   12°49   28°22   29°13   13°43   6°56   M1   13   17   15   17   17		16 57 32	15°16'33					17°44	12°28		11°42	12°56	28°33	29°32	13° 3		T 6
F 9	W 7	17 1 29	16°13'59	-			24° 2				-		-				W 7
S 10	-						-	-				-					T 8
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T13	S 11	17 17 15	20° 3'33	16°52	29°21	7°41	26°32	18°53	12° 9	3°54	11°35	12°50	28°R22	29°16	13°37	6°51	S 11
W14   17 29 5   22°55'33   22°27   0°57   11°21   28°23   19°35   11°57   3°47   11°30   12°46   28°16   29° 6   13°57   7° 8   W1   T15   17 33	M12	17 21 12	21° 0'54	28°45	29°49	8°54	27° 9	19° 7	12° 5	3°52	11°33	12°49	28°22	29°13	13°43	6°56	M12
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	T 13	17 25 8	21°58'14	10 <b>≏</b> 35	0Ⅱ20	10° 7	27°46	19°21	12° 1	3°49	11°32	12°47	28°20	29° 9	13°50	7° 2	T 13
F 16	W14	17 29 5	22°55'33	22°27	0°57	11°21	28°23	19°35	11°57	3°47	11°30	12°46	28°16	29° 6	13°57	7° 8	W14
S   17   17   40   55   25°47'25   28°51   3° 9   15° 0   0\Q15   20°17   11°45   3°40   11°26   12°43   27°52   28°57   14°17   7°26   S   18   17   44   51   26°44'41   11\\$\frac{7}{2}25   4° 2   16°14   0°53   20°30   11°41   3°37   11°24   12°42   27°41   28°54   14°24   7°32   S   18   17   48   48   27°41'56   24°13   4°58   17°27   1°30   20°44   11°36   3°35   11°22   12°41   27°31   28°50   14°30   7°37   MI   17   17   17   17   17   17   17   1	T 15	17 33 1	23°52'51	4M25	1°37	12°34	29° 1	19°49	11°53	3°45	11°29	12°45			14° 3	7°14	T 15
S 18       17 44 51       26°44'41       11x725       4° 2       16°14       0°53       20°30       11°41       3°37       11°24       12°42       27°41       28°54       14°24       7°32       S 1         M19       17 48 48       27°41'56       24°13       4°58       17°27       1°30       20°44       11°36       3°35       11°22       12°41       27°31       28°50       14°30       7°37       MI         T 20       17 52 44       28°39'11       7°516       5°58       18°40       2° 7       20°58       11°32       3°33       11°21       12°40       27°21       28°47       14°37       7°43       T2         W21       17 56 41       29°36'26       20°31       7° 2       19°53       2°45       21°12       11°28       3°30       11°19       12°39       27°14       28°44       14°44       7°49       W2         T 22       18       0 37       0933'40       3≈58       8° 9       21° 6       3°22       21°26       11°24       3°28       11°18       12°38       27°10       28°41       14°50       7°55       T2         F 23       18       4 34       1°30'54       17°36       9°20       22°19	F 16	17 36 58	24°50'08			13°47		20° 3	11°49	3°42	11°27	12°44	28° 2	29° 0	14°10	7°20	F 16
MI9	S 17	17 40 55	25°47'25	28°51	3° 9	15° 0	0 <b>Ω</b> 15	20°17	11°45	3°40	11°26	12°43	27°52	28°57	14°17	7°26	S 17
T20	S 18	17 44 51	26°44'41											28°54			S 18
W21	M19	17 48 48	27°41'56	24°13	4°58	17°27	1°30	20°44	11°36	3°35	11°22	12°41	27°31	28°50	14°30	7°37	M19
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F 23							_		-				-, -,	-		,	W21
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S 25     18 12 27     3°25'21     15°18     11°53     24°46     5°14     22° 7     11°11     3°20     11°13     12°35     27° 8     28°31     15°10     8°13     S 2       M26     18 16 24     4°22'34     29°21     13°15     25°59     5°51     22°21     11° 6     3°18     11°11     12°34     27°R     9     28°28     15°17     8°19     M2       T 27     18 20 20     5°19'47     13°Y31     14°40     27°12     6°29     22°34     11° 2     3°16     11°10     12°33     27° 9     28°25     15°24     8°25     T2       W28     18 24 17     6°17'01     27°46     16° 9     28°25     7° 6     22°48     10°57     3°13     11° 8     12°32     27° 7     28°22     15°30     8°31     W2       T 29     18 28 13     7°14'14     12'8     4     17°41     29°38     7°43     23° 2     10°53     3°11     11° 7     12°32     27° 3     28°19     15°37     8°37     T2	_								-		-						F 23
M26	S 24	18 8 31	2°28'07	1 <b>∺</b> 23	10°35	23°32	4°37	21°53	11°15	3°23	11°15	12°36	27°D 7	28°34	15° 4	8° 7	S 24
T 27		-					-	,									S 25
W28     18 24 17     6°17'01     27°46     16° 9     28°25     7° 6     22°48     10°57     3°13     11° 8     12°32     27° 7     28°22     15°30     8°31     W2       T 29     18 28 13     7°14'14     12'8     4     17°41     29°38     7°43     23° 2     10°53     3°11     11° 7     12°32     27° 3     28°19     15°37     8°37     T 2									-								M26
T 29   18 28 13   7°14′14   128 4   17°41   29°38   7°43   23° 2   10°53   3°11   11° 7   12°32   27° 3   28°19   15°37   8°37   T 2								_					-, -		-		T 27
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F30 183210  8©11'28 26♥21 19Д17 06ℓ51 86ℓ21 23Д15 10₹49 3₹8 11₹5 12Щ31 26∞57 28∞15 15⊈44 8©43 F3											,						T 29
	F 30	18 32 10	8911'28	26 <b>8</b> 21	19 <b>Ⅲ</b> 17	0 <b>Ω</b> 51	8 <b>N</b> 21	23 <b>Ⅱ</b> 15	10 <b>る</b> 49	3 <b>ප</b> 8	11 <b>궁</b> 5	12 <b>M</b> .31	26≈57	28≈15	15 <b>≏</b> 44	89643	F 30

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S 11 M12 T 13 W14 T 15 F 16 S 17	23 21	1 s52 2 7 20 3 12 33 4 17 21 4	1 7 16 30 1 38 16 43 1 57 16 57	4 2 2 4 0 2 3 56 2 3 51 2 3 46 2	4 16 1 8 4 13 1 9 4 8 1 11 4 4 1 13 3 58 1 15	22 0 1 18 21 53 1 18 21 45 1 17 21 37 1 17 21 29 1 17	22 36 0 24 22 37 0 24 22 38 0 24 22 39 0 24 22 40 0 24	22 15 0 39 22 15 0 39 22 16 0 39 22 16 0 39 22 17 0 38	23 39 0 16 23 40 0 16 23 40 0 16	22 0 0 56 22 1 0 56	0 14 16 11 0 14 16 10 0 14 16 10 0 14 16 10 0 14 16 9	12 3 11 45 12 3 11 46 12 5 11 47	8 45 8 48 8 51 8 54 8 57	17 17 5 59 17 16 5 59 17 16 5 59
S 18 M19 T 20 W21 T 22 F 23 S 24	23 26 23 27 23 26 23 26	27 50 4 27 8 3 24 53 3 21 13 2 16 22 0	3 3 18 24	3 25 2 3 17 2 3 8 2 2 59 2 2 49 2	3 37 1 19 3 29 1 21 3 20 1 22 3 10 1 24 3 0 1 25	21 4 1 17 20 56 1 16 20 47 1 16 20 38 1 16 20 29 1 16	22 44 0 23 22 45 0 23 22 46 0 23 22 47 0 23 22 48 0 23	22 18 0 38 22 18 0 38 22 19 0 38 22 19 0 38 22 19 0 38 22 20 0 38		22 1 0 56 22 1 0 56 22 2 0 56 22 2 0 56 22 2 0 56	0 14 16 8 0 14 16 8 0 14 16 7 0 15 16 7 0 15 16 6	12 17 11 52 12 20 11 53 12 23 11 54 12 26 11 55 12 27 11 56 12 28 11 57 12 28 11 58	9 7 9 10 9 13 9 16 9 19	17 16 5 59 17 15 5 58 17 15 5 58 17 15 5 58 17 15 5 58 17 14 5 58 17 14 5 58
S 25 M26 T 27 W28 T 29 F 30		2n15 2 8 45 3 14 51 4 20 10 4	1 36 19 46 2 44 20 7 3 43 20 29 4 28 20 50 4 57 21 10 5n 7 21n31	2 17 2 2 6 2 1 54 2 1 42 2	2 24 1 29 2 11 1 30 1 58 1 31 1 44 1 32	20 2 1 15 19 52 1 15 19 42 1 15 19 33 1 15	22 50 0 23 22 51 0 23 22 52 0 23 22 53 0 23	22 21 0 38 22 22 0 38 22 22 0 38 22 22 0 38	23 40 0 16 23 40 0 16 23 41 0 16	22 2 0 56 22 2 0 56 22 3 0 56	0 15 16 5 0 16 16 4 0 16 16 4 0 16 16 3	12 28 11 59 12 28 12 0 12 28 12 2 12 29 12 3 12 30 12 4 12 s32 12 s 5	9 29 9 32 9 35 9 38	17 14 5 58 17 13 5 58 17 13 5 58 17 12 5 58 17 12 5 59 17n12 5 s59

 $\label{eq:Julian Day Number = 2447678.5, Delta T = 56.51 sec} \\ Ecliptic obliquity = 23°26'34, Nutation = 0°00'07, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°35'33, Lahiri = 23°42'33 \\ \\$ 

JULY 1989 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	并	В	n	v	Ç	ķ	Day
S 1	18 36 6	995 8'42	10 <b>Ⅲ</b> 34	20 <b>II</b> 55	2 <b>0</b> 4	8 <b>N</b> 58	23Ⅲ29	10°R44	3°R 6	11°R 3	12°R30	26°R50	28≈12	15 <b>≙</b> 50	8 <b>9</b> 49	S 1
S 2	18 40 3	10° 5'56	24°37	22°37	3°17	9°36	23°43	10 <b>궁</b> 40	3 <b>る</b> 3	11궁 2	12 <b>M</b> 29	26≈42	28° 9	15°57	8°55	S 2
M 3	18 44 0	11° 3'10	8925	24°22	4°30	10°13	23°56	10°35	3° 1	11° 0	12°29	26°35	28° 6	16° 4	9° 1	M 3
T 4	18 47 56	12° 0'24	21°56	26°11	5°42	10°50	24°10	10°31	2°59	10°58	12°28	26°30	28° 3	16°11	9° 7	T 4
W 5	18 51 53	12°57'38	5 <b>Ω</b> 7	28° 2	6°55	11°28	24°23	10°26	2°56	10°57	12°27	26°26	28° 0	16°17	9°13	W 5
T 6	18 55 49	13°54'51	17°57	29°56	8° 8	12° 5	24°37	10°22	2°54	10°55	12°27	26°24	27°56	16°24	9°19	T 6
F 7	18 59 46	14°52'05	0 <b>m</b> 29	1952	9°21	12°43	24°50	10°18	2°51	10°54	12°26	26°D23	27°53	16°31	9°25	F 7
S 8	19 3 42	15°49'18	12°44	3°51	10°34	13°20	25° 4	10°13	2°49	10°52	12°26	26°24	27°50	16°37	9°31	S 8
S 9	19 7 39	16°46'31	24°47	5°52	11°47	13°58	25°17	10° 9	2°47	10°50	12°25	26°26	27°47	16°44	9°37	S 9
M10	19 11 35	17°43'44	6 <b>≏</b> 41	7°55	12°59	14°35	25°30	10° 4	2°44	10°49	12°25	26°27	27°44	16°51	9°43	M10
T 11	19 15 32	18°40'57	18°32	10° 0	14°12	15°13	25°44	10° 0	2°42	10°47	12°24	26°R28	27°40	16°57	9°49	T 11
W12	19 19 29	19°38'10	0 <b>M</b> 25	12° 6	15°25	15°50	25°57	9°56	2°40	10°45	12°24	26°27	27°37	17° 4	9°55	W12
T 13	19 23 25	20°35'22	12°25	14°14	16°38	16°28	26°10	9°51	2°37	10°44	12°24	26°25	27°34	17°11	10° 1	T 13
F 14	19 27 22	21°32'35	24°35	16°22	17°50	17° 5	26°23	9°47	2°35	10°42	12°23	26°21	27°31	17°17	10° 7	F 14
S 15	19 31 18	22°29'48	7 <b>√</b> 1	18°31	19° 3	17°43	26°36	9°43	2°33	10°41	12°23	26°17	27°28	17°24	10°13	S 15
S 16	19 35 15	23°27'02	19°43	20°40	20°16	18°20	26°50	9°38	2°31	10°39	12°23	26°12	27°25	17°31	10°19	S 16
M17	19 39 11	24°24'15	2 <b>~</b> 344	22°49	21°28	18°58	27° 3	9°34	2°28	10°38	12°23	26° 6	27°21	17°38	10°24	M17
T 18	19 43 8	25°21'29	16° 3	24°57	22°41	19°36	27°16	9°30	2°26	10°36	12°22	26° 2	27°18	17°44	10°30	T 18
W19	19 47 5	26°18'43	29°40	27° 5	23°53	20°13	27°29	9°26	2°24	10°34	12°22	25°59	27°15	17°51	10°36	W19
T 20	19 51 1	27°15'57	13 <b>≈</b> 31	29°12	25° 6	20°51	27°42	9°22	2°22	10°33	12°22	25°57	27°12	17°58	10°42	T 20
F 21	19 54 58	28°13'12	27°35	1 <b>Q</b> 18	26°18	21°28	27°54	9°18	2°20	10°31	12°22	25°D56	27° 9	18° 4	10°48	F 21
S 22	19 58 54	29°10'28	11 <b>)</b> (46	3°23	27°31	22° 6	28° 7	9°14	2°18	10°30	12°22	25°57	27° 6	18°11	10°54	S 22
S 23	20 2 51	0 <b>Ω</b> 7'44	26° 2	5°27	28°43	22°44	28°20	9°10	2°16	10°28	12°D22	25°58	27° 2	18°18	11° 0	S 23
M24	20 6 47	1° 5'01	10 <b>Υ</b> 19	7°30	29°55	23°21	28°33	9° 6	2°14	10°27	12°22	25°59	26°59	18°24	11° 5	M24
T 25	20 10 44	2° 2'20	24°34	9°31	1 <b>m</b> ) 8	23°59	28°45	9° 2	2°12	10°25	12°22	26° 0	26°56	18°31	11°11	T 25
W26	20 14 40	2°59'39	8 <b>8</b> 46	11°30	2°20	24°37	28°58	8°58	2°10	10°24	12°22	26°R 0	26°53	18°38	11°17	W26
T 27	20 18 37	3°56'59	22°52	13°28	3°32	25°14	29°10	8°54	2° 8	10°22	12°22	25°59	26°50	18°44	11°23	T 27
F 28	20 22 34	4°54'20	6 <b>Ⅱ</b> 49	15°25	4°45	25°52	29°23	8°50	2° 6	10°21	12°22	25°58	26°46	18°51	11°28	F 28
S 29	20 26 30	5°51'42	20°37	17°19	5°57	26°30	29°35	8°47	2° 4	10°20	12°23	25°55	26°43	18°58	11°34	S 29
S 30	20 30 27	6°49'05	49913	19°12	7° 9	27° 7	29°48	<u>8°43</u>	<u>2°</u> 2	1 <u>0</u> °18	12°23	25°52	26°40	19° 5	11°40	S 30
M31	20 34 23	7 <b>Ω</b> 46'30	17935	210 4	8 <b>m</b> 21	27 <b>Ω</b> 45	0ම 0	8 <b>건</b> 39	2 <b>る</b> 0	10 <b>궁</b> 17	12 <b>M</b> 23	25≈50	26≈37	19 <b>≏</b> 11	119945	M31

Day	0	J	)	ζ	5	ç	2	d	7	2	4	ħ	<u> </u>	);	ł(	j	ŧ,	Р		n	Ω	Ç	Š	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl l	lat	decl	decl	decl	decl	lat
S 1	23n 8	26n57	4n58	21n50	1 s 1 8	21n13	1n34	19n13	1n14	22n54	0 s22	$22\mathrm{s}23$	0n37	23 s41	0s16	22 s 3	0n56	0s17	16n 2	12 s34	12 s 6	9 s45	17n11	5 s59
S 2	23 4	27 52	4 32	22 9	1 6	20 57				22 55		22 24	0 37	23 41			0 56	0 17	16 2			9 48	17 11	5 59
M 3		27 0	3 50	-		20 41		18 52		22 56		22 24		23 41			0 56	0 17					17 10	5 59
T 4 W 5		24 32 20 49	2 55 1 53			20 24 20 6				22 57 22 57		22 25 22 25		23 41 23 41			0 56 0 56	0 18	-				17 10	5 59 5 59
T 6		16 11	0 46			19 47	1 37			22 58		22 25		23 41			0 56	0 18					17 9	5 59
F 7	22 37	10 58	0 s22		0 5	19 29	1 37			22 59		22 26		23 41			0 56	0 19	15 59	12 43			17 8	5 59
S 8	22 30	5 26	1 28	23 29	0n 6	19 9	1 37	17 59	1 13	22 59	0 22	22 26	0 37	23 41	0 16	22 4	0 56	0 19	15 59	12 43	12 14	10 7	17 8	5 59
S 9	22 23	0s11	2 28	23 36	0 17	18 49	1 38	17 48	1 13	23 0	0 22	22 27	0 37	23 41	0 16	22 4	0 56	0 19	15 58	12 42	12 15	10 10	17 7	5 59
M10	22 16	-	3 21	23 40		18 29	1 38		1 12					23 41			0 56			12 42				5 59
T 11 W12	_	11 3 15 59	4 6	-	0 38		1 38		1 12			22 28 22 28		23 41			0 56			12 42				6 0
T 13		20 21	4 40 5 2	-		17 47 17 25	1 38		1 12 1 12			22 28		23 41 23 41			0 56 0 56			12 42 12 43				6 0
F 14	-	23 57	5 11			17 3		16 51	1 11			22 29		23 41			0 56			12 44				6 0
S 15	21 34	26 31	5 6	23 22	1 13	16 40	1 38	16 39	1 11	23 3	0 21	22 29	0 36	23 41	0 16	22 5	0 56	0 22	15 55	12 46	12 21	10 28	17 4	6 0
S 16	21 24	27 48	4 46	23 10	1 20	16 17	1 38	16 27	1 11	23 3	0 21	22 30	0 36	23 41	0 16	22 5	0 56	0 22	15 54	12 47	12 22	10 32	17 3	6 0
M17		27 35	4 11	22 55		15 53		16 16						23 42		-	0 56			12 49				6 0
T 18		25 48	3 21	22 38		15 29	1 37		1 10					23 42			0 56			12 51				6 1
W19 T 20		22 29 17 51	2 19 1 8		1 36	15 5 14 40	1 36 1 36		1 10 1 10		-			23 42 23 42			0 56 0 56			12 52 12 52				6 1
F 21		12 10	0n 9			14 15			1 10			22 32		23 42			0 56			12 53				6 1
S 22	20 20	5 50	1 26	21 6	1 45	13 49	1 35	15 14	1 9	23 5	0 21	22 32	0 35	23 42	0 16	22 6	0 56			12 52				6 1
S 23	20 8	0n50	2 38	20 38	1 47	13 23	1 34	15 2	1 9	23 5	0 21	22 32	0 35	23 42	0 16	22 6	0 56	0 26	15 50	12 52	12 30	10 53	16 59	6 2
M24	19 55		3 40	20 8		12 57	1 33			23 5				23 42		-	0 56						16 58	6 2
T 25		13 41	4 29	19 36		12 30	1 32			23 5				23 42		-	0 56						16 58	6 2
W26 T 27		19 10 23 33	5 0 5 14		1 47	12 4 11 36		14 24 14 11		23 6 23 6	-			23 42 23 42			0 56 0 56			12 51 12 51			16 57 16 56	6 2
F 28		26 31	5 9		1 40		1 29			23 6		22 34		23 42			0 56			12 51			16 55	6 3
S 29		27 52	4 46			10 41	1 27	13 45		23 6		22 35		23 42			0 56						16 55	6 3
S 30	18 34	27 30	4 7	16 38	1 39	10 13	1 26	13 32	1 7	23 6	0 20	22 35	0 34	23 42	0 16	22 7	0 56	0 30	15 46	12 54	12 38	11 15	16 54	6 3
M31	18n20	25n31	3n15	15n59	1n36	9n45	1n25	13n18	1n 7	23n 6	0 s20	$22\mathrm{s}35$	0n34	23 s42	0s16	22 s 7	0n56	0s31	15n46	12 s55	12 s39	11s18	16n53	6s 3

Julian Day Number = 2447708.5, Delta T = 56.56 sec Ecliptic obliquity = 23°26'33, Nutation = 0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^\circ35'37$ , Lahiri =  $23^\circ42'37$ 

AUGUST 1989 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	¥	Р	ß	Ω	Ç	Š,	Day
T 1	20 38 20	8 <b>N</b> 43'55	0 <b>Ω</b> 43	22 <b>Ω</b> 54	9 <b>m</b> 33	28 <b>Ω</b> 23	09512	8°R36	1°R58	10°R15	12M23	25°R48	26≈34	19 <b>亞</b> 18	11951	T 1
W 2	20 42 16	9°41'20	13°35	24°42	10°46	29° 1	0°25	8 <b>云</b> 32	1 <b>る</b> 57	10 <b>궁</b> 14	12°24	25≈47	26°31	19°25	11°56	W 2
T 3	20 46 13	10°38'47	26°12	26°28	11°58	29°39	0°37	8°29	1°55	10°13	12°24	25°D46	26°27	19°31	12° 2	T 3
F 4	20 50 9	11°36'15	8 <b>m</b> y35	28°13	13°10	0 <b>m</b> p16	0°49	8°26	1°53	10°11	12°24	25°47	26°24	19°38	12° 8	F 4
S 5	20 54 6	12°33'43	20°45	29°56	14°22	0°54	1° 1	8°22	1°51	10°10	12°25	25°48	26°21	19°45	12°13	S 5
S 6	20 58 3	13°31'12	2 <b>≏</b> 45	1 <b>m</b> ) 38	15°34	1°32	1°13	8°19	1°50	10° 9	12°25	25°49	26°18	19°51	12°18	S 6
M 7	21 1 59	14°28'42	14°39	3°18	16°46	2°10	1°24	8°16	1°48	10° 7	12°26	25°50	26°15	19°58	12°24	M 7
T 8	21 5 56	15°26'12	26°30	4°56	17°58	2°48	1°36	8°13	1°47	10° 6	12°26	25°51	26°12	20° 5	12°29	T 8
W 9	21 9 52	16°23'44	8M23	6°33	19° 9	3°26	1°48	8°10	1°45	10° 5	12°27	25°51	26° 8	20°11	12°35	W 9
T 10	21 13 49	17°21'16	20°22	8° 8	20°21	4° 4	1°59	8° 7	1°44	10° 4	12°27	25°R51	26° 5	20°18	12°40	T 10
F 11	21 17 45	18°18'49	2 <b>₹</b> 32	9°42	21°33	4°42	2°11	8° 4	1°42	10° 3	12°28	25°51	26° 2	20°25	12°45	F 11
S 12	21 21 42	19°16'24	14°57	11°14	22°45	5°20	2°22	8° 1	1°41	10° 1	12°29	25°51	25°59	20°32	12°51	S 12
S 13	21 25 38	20°13'59	27°42	12°44	23°56	5°57	2°34	7°59	1°40	10° 0	12°29	25°50	25°56	20°38	12°56	S 13
M14	21 29 35	21°11'35	10 <b>පි</b> 48	14°13	25° 8	6°35	2°45	7°56	1°38	9°59	12°30	25°49	25°52	20°45	13° 1	M14
T 15	21 33 32	22° 9'12	24°17	15°40	26°20	7°13	2°56	7°53	1°37	9°58	12°31	25°49	25°49	20°52	13° 6	T 15
W16	21 37 28	23° 6'50	8≈ 8	17° 6	27°31	7°51	3° 7	7°51	1°36	9°57	12°32	25°49	25°46	20°58	13°11	W16
T 17	21 41 25	24° 4'29	22°20	18°30	28°43	8°29	3°18	7°49	1°35	9°56	12°33	25°D49	25°43	21° 5	13°16	T 17
F 18	21 45 21	25° 2'10	6 <b>)</b> €48	19°52	29°54	9° 8	3°29	7°46	1°33	9°55	12°33	25°49	25°40	21°12	13°21	F 18
S 19	21 49 18	25°59'52	21°26	21°12	1 <b>º</b> 6	9°46	3°40	7°44	1°32	9°54	12°34	25°R49	25°37	21°18	13°26	S 19
S 20	21 53 14	26°57'35	6 <b>℃</b> 8	22°31	2°17	10°24	3°51	7°42	1°31	9°53	12°35	25°48	25°33	21°25	13°31	S 20
M21	21 57 11	27°55'20	20°48	23°48	3°28	11° 2	4° 1	7°40	1°30	9°52	12°36	25°48	25°30	21°32	13°36	M21
T 22	22 1 7	28°53'07	5 <b>8</b> 19	25° 3	4°39	11°40	4°12	7°38	1°29	9°51	12°37	25°48	25°27	21°39	13°41	T 22
W23	22 5 4	29°50'55	19°38	26°16	5°51	12°18	4°22	7°36	1°28	9°50	12°38	25°48	25°24	21°45	13°46	W23
T 24	22 9 1	0 <b>M</b> 48'45	3 <b>Ⅱ</b> 42	27°27	7° 2	12°56	4°33	7°34	1°28	9°49	12°39	25°D48	25°21	21°52	13°50	T 24
F 25	22 12 57	1°46'37	17°29	28°36	8°13	13°34	4°43	7°33	1°27	9°48	12°40	25°48	25°18	21°59	13°55	F 25
S 26	22 16 54	2°44'31	199 0	29°43	9°24	14°13	4°53	7°31	1°26	9°48	12°41	25°48	25°14	22° 5	14° 0	S 26
S 27	22 20 50	3°42'27	14°14	0 <b>ჲ</b> 48	10°35	14°51	5° 3	7°29	1°25	9°47	12°43	25°49	25°11	22°12	14° 4	S 27
M28	22 24 47	4°40'24	27°13	1°50	11°46	15°29	5°13	7°28	1°25	9°46	12°44	25°50	25° 8	22°19	14° 9	M28
T 29	22 28 43	5°38'23	9 <b>Ω</b> 59	2°50	12°57	16° 7	5°23	7°27	1°24	9°45	12°45	25°51	25° 5	22°25	14°13	T 29
W30	22 32 40	6°36'23	22°31	3°47	14° 8	16°46	5°33	7°25	1°23	9°44	12°46	25°R51	25° 2	22°32	14°18	W30
T 31	22 36 36	7 Mg 34′26	4 <b>m</b> 53	4 <b>≏</b> 41	15 <b>≏</b> 19	17 <b>M</b> 24	59543	7 <b>云</b> 24	1 <b>る</b> 23	9 <b>궁</b> 44	12 <b>M</b> .48	25≈51	24≈58	22 <b>॒</b> 39	149522	T 31

Day	0	D		ğ	5	φ		d	7		4	1	ì	)	ľ(	4	Ţ	В	n	Ω	ţ	Ą	;
	decl	decl la	at	decl	lat	decl	lat	decl	lat	dec	l lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
T 1	18n 5			15n20	1n32	9n16	1n23			23n		0 22 s36		23 s42		22 s 7	0n56	0s31 15n4	-				
W 2 T 3	17 50 17 34			14 40 13 59	1 27 1 23	8 48 8 19		12 52 12 38		-	6 0 2 6 0 2			23 42 23 42			0 56 0 56	0 32 15 4 0 33 15 4					6 4
F 4	17 18			13 18	1 17	7 49	-	12 24			$\begin{array}{c cccc} 6 & 0 & 2 \\ 6 & 0 & 2 \end{array}$			23 42		_	0 56	0 33 15 4					6 5
S 5	17 2			12 37	1 12	7 20		12 11			6 0 2			23 42			0 55	0 34 15 4					6 5
S 6	16 46	4s 1	3 11	11 55	1 6	6 50		11 57				0 22 37		23 42	0 16	22 8	0 55	0 35 15 4					6 5
M 7	16 29			11 13		6 21	-	11 43		_	-	0 22 38		23 42		-	0 55	0 35 15 4		-			6 5
T 8	16 13	14 31	4 36	10 31	0 53	5 51		11 29			6 0 2	0 22 38	0 33	23 42	0 16	22 8	0 55	0 36 15 4					6 6
W 9	15 55	19 4	5 2	9 49	0 46	5 21	1 9	11 15	1 5	23	6 0 2	0 22 38	0 33	23 42	0 16	22 8	0 55	0 37 15 4	0 12 54	12 48	11 45	16 46	6 6
T 10	15 38	22 54	5 15	9 7	0 38	4 50	1 6	11 1	1 4	23	6 0 2	0 22 39	0 33	23 42	0 16	22 8	0 55	0 37 15 4	0 12 54	12 49	11 48	16 46	6 6
F 11	15 21		5 15	8 25	0 31	4 20		10 47	1 4	_	6 0 2			23 42		-	0 55	0 38 15 3	-		_		6 7
S 12	15 3	27 33	4 59	7 42	0 23	3 50	1 2	10 33	1 4	23	6 0 2	0 22 39	0 33	23 42	0 16	22 9	0 55	0 39 15 3	9 12 54	12 52	11 54	16 44	6 7
S 13	14 45	27 55	4 29	7 1	0 15	3 19	1 0	10 19	1 3	23	6 0 2	0 22 39	0 33	23 42	0 16	22 9	0 55	0 40 15 3	8 12 55	12 53	11 57	16 43	6 7
M14	14 26	26 44	3 44	6 19	0 6	2 48	0 57	10 4	1 3	23	5 0 1	9 22 40	0 33	23 42	0 16	22 9	0 55	0 40 15 3	8 12 55	12 54	12 0	16 42	6 8
T 15	14 8		2 46	5 37	0s 2	2 18	0 55	9 50	1 3		5 0 1						0 55		7 12 55			16 41	6 8
W16	13 49		1 36	4 56	0 11	1 47	0 52	9 35	1 3	_	5 0 1						0 55	0 42 15 3				16 41	6 9
T 17	13 30		0 19	4 15	0 20	1 16	0 49	9 21	1 2		5 0 1			-			0 55	0 43 15 3					6 9
F 18 S 19	13 11 12 51		ln l	3 35	0 29 0 38	0 45	0 47	9 6	1 2	_	5 0 1		0 32				0 55	0 43 15 3					6 9
			2 17	2 55		0 14	0 44	8 52	1 2			9 22 41		23 42			0 22	0 44 15 3					6 10
S 20	12 32		3 26	2 15	0 47	0s17	0 41	8 37	1 1			9 22 41		23 42		22 10		0 45 15 3			12 18		6 10
M21 T 22	12 12		4 20 4 57	1 36 0 58	0 56	0 48	0 38	8 22 8 7	1 I		4 0 1			23 42				0 46 15 3				16 36	6 10
W23	11 32		5 15	0 20	1 6 1 15	1 19 1 50	0 33	8 7 7 53	1 0		4 0 1 3 0 1	9 22 42 9 22 42		23 42 23 42		-		0 47 15 3 0 47 15 3			12 24 12 27		6 11
T 24	11 32		5 14	0 20 0s17	1 13	2 21	0 32	7 38		_	-	9 22 42		23 42		-		0 47 13 3	-		12 27		6 12
F 25	10 51		4 55	0 53	1 35	2 51	0 26	7 23				9 22 42		23 42				0 49 15 3			12 30		6 12
S 26			4 19	1 29	1 44	3 22	0 23	7 8	0 59	_	-	9 22 43		23 42		22 10		0 50 15 3			12 36		6 13
S 27	10 9	26 10	3 31	2 3	1 54	3 53	0 20	6 53	0 59	23	2 0 1	9 22 43	0 31	23 42	0 16	22 10	0 55	0 51 15 3	0 12 55	13 8	12 39	16 31	6 13
M28	9 48	23 12	2 32	2 37	2 3	4 24	0 17	6 38	0 59			9 22 43	0 31	23 42	0 16	22 10		0 52 15 3	0 12 55	13 9	12 42	16 30	6 13
T 29	9 27	19 9	1 27	3 10	2 13	4 55	0 13	6 22	0 58	23	1 0 1	9 22 43	0 31	23 42	0 16	22 10	0 55	0 52 15 2	9 12 54			16 29	6 14
W30	9 5	14 18	0 18	3 41	2 23	5 25	0 10	6 7	0 58	23		9 22 43		23 42		22 11	0 55	0 53 15 2					6 14
T 31	8n44	8n57	0s50	4s11	2 s32	5 s 5 6	0n 6	5n52	0n58	23n	1 0 s1	8 22 s44	0n31	23 s42	0s16	22 s11	0n55	0s54 15n2	8 12 s54	13 s12	12 s 5 1	16n27	6 s 1 5

 $\label{eq:Julian Day Number = 2447739.5, Delta T = 56.61 sec} \\ Ecliptic obliquity = 23°26'34, Nutation = 0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°35'41, Lahiri = 23°42'42} \\$ 

SEPTEMBER 1989 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)Å(	¥	Р	ß	Ω	Ç	ę,	Day
F 1	22 40 33	8 m/ 32'29	17 <b>m</b> ) 4	5 <b>₾</b> 32	16 <b>₽</b> 30	18Mp 2	5952	7°R23	1°R22	9°R43	12 <b>M</b> .49	25°R50	24≈55	22 <u>₽</u> 46	149526	F 1
S 2	22 44 30	9°30'35	29° 6	6°20	17°40	18°41	6° 2	7 <b>云</b> 22	1 <b>る</b> 22	9 <b>る</b> 43	12°50	25 <b>≈</b> 49	24°52	22°52	14°31	S 2
S 3	22 48 26	10°28'42	11 <b>♀</b> 3	7° 5	18°51	19°19	6°11	7°21	1°22	9°42	12°52	25°47	24°49	22°59	14°35	S 3
M 4	22 52 23	11°26'50	22°54	7°46	20° 1	19°57	6°20	7°21	1°21	9°41	12°53	25°44	24°46	23° 6	14°39	M 4
T 5	22 56 19	12°25'00	4 <b>M</b> .45	8°24	21°12	20°36	6°29	7°20	1°21	9°41	12°54	25°42	24°43	23°12	14°43	T 5
W 6	23 0 16	13°23'12	16°37	8°57	22°22	21°14	6°38	7°19	1°21	9°40	12°56	25°40	24°39	23°19	14°47	W 6
T 7	23 4 12	14°21'25	28°34	9°26	23°33	21°53	6°47	7°19	1°20	9°40	12°57	25°38	24°36	23°26	14°51	T 7
F 8	23 8 9	15°19'40	10 <b>×</b> 742	9°50	24°43	22°31	6°55	7°19	1°20	9°39	12°59	25°D37	24°33	23°32	14°55	F 8
S 9	23 12 5	16°17'56	23° 4	10° 9	25°54	23°10	7° 4	7°18	1°20	9°39	13° 0	25°37	24°30	23°39	14°59	S 9
S 10	23 16 2	17°16'14	5 <b>⋜</b> 44	10°23	27° 4	23°48	7°12	7°18	1°D20	9°39	13° 2	25°38	24°27	23°46	15° 3	S 10
M11	23 19 58	18°14'33	18°47	10°31	28°14	24°27	7°21	7°D18	1°20	9°38	13° 3	25°40	24°24	23°53	15° 6	M11
T 12	23 23 55	19°12'54	2≈16	10°R34	29°24	25° 6	7°29	7°18	1°20	9°38	13° 5	25°41	24°20	23°59	15°10	T 12
W13	23 27 52	20°11'16	16°11	10°30	0 <b>M</b> .34	25°44	7°37	7°18	1°20	9°38	13° 7	25°42	24°17	24° 6	15°14	W13
T 14	23 31 48	21° 9'40	0 <b>)</b> €32	10°19	1°44	26°23	7°45	7°18	1°21	9°37	13° 8	25°R42	24°14	24°13	15°17	T 14
F 15	23 35 45	22° 8'06	15°15	10° 2	2°54	27° 1	7°53	7°19	1°21	9°37	13°10	25°41	24°11	24°19	15°21	F 15
S 16	23 39 41	23° 6'34	0 <b>Υ</b> 14	9°38	4° 3	27°40	8° 0	7°19	1°21	9°37	13°12	25°39	24° 8	24°26	15°24	S 16
S 17	23 43 38	24° 5'03	15°20	9° 7	5°13	28°19	8° 8	7°20	1°21	9°37	13°13	25°35	24° 4	24°33	15°27	S 17
M18	23 47 34	25° 3'34	0 <b>8</b> 24	8°29	6°23	28°58	8°15	7°20	1°22	9°37	13°15	25°31	24° 1	24°40	15°31	M18
T 19	23 51 31	26° 2'08	15°16	7°45	7°32	29°36	8°22	7°21	1°22	9°37	13°17	25°27	23°58	24°46	15°34	T 19
W20	23 55 27	27° 0'44	29°51	6°55	8°42	0 <b>≏</b> 15	8°29	7°22	1°23	9°37	13°19	25°24	23°55	24°53	15°37	W20
T 21	23 59 24	27°59'22	14 <b>I</b> I 2	5°59	9°51	0°54	8°36	7°23	1°23	9°D37	13°21	25°22	23°52	25° 0	15°40	T 21
F 22	0 3 21	28°58'03	27°50	4°59	11° 0	1°33	8°43	7°24	1°24	9°37	13°23	25°D21	23°49	25° 6	15°43	F 22
S 23	0 7 17	29°56'45	119514	3°56	12° 9	2°12	8°50	7°25	1°25	9°37	13°24	25°21	23°45	25°13	15°46	S 23
S 24	0 11 14	0ჲ55'30	24°16	2°51	13°18	2°51	8°56	7°26	1°25	9°37	13°26	25°23	23°42	25°20	15°49	S 24
M25	0 15 10	1°54'17	$7\Omega$ 0	1°45	14°27	3°30	9° 2	7°27	1°26	9°37	13°28	25°24	23°39	25°26	15°51	M25
T 26	0 19 7	2°53'06	19°29	0°40	15°36	4° 8	9° 9	7°29	1°27	9°37	13°30	25°R26	23°36	25°33	15°54	T 26
W27	0 23 3	3°51'58	1 <b>m</b> 46	29 <b>m</b> 38	16°45	4°47	9°15	7°30	1°28	9°37	13°32	25°25	23°33	25°40	15°57	W27
T 28	0 27 0	4°50'51	13°53	28°41	17°54	5°26	9°20	7°32	1°28	9°37	13°34	25°24	23°29	25°47	15°59	T 28
F 29	0 30 56	5°49'47	25°54	27°50	19° 2	6° 6	9°26	7°33	1°29	9°37	13°36	25°20	23°26	25°53	16° 2	F 29
S 30	0 34 53	6 <b>₽</b> 48'45	7 <b>≙</b> 49	27MD 6	20 <b>M</b> 11	6 <b>₽</b> 45	9 <b>93</b> 32	7 <b>云</b> 35	1 <b>る</b> 30	9 <b>る</b> 38	13 <b>M</b> .38	25≈14	23≈23	26 <b>♀</b> 0	1695 4	S 30

Day	0	D		ζ	5	ç	)	d	7	2	4	ŧ	1	);	<del>j</del> (	4		В		R	Ω	ţ	Ł	5
	decl	decl la	at	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	8n22	3n21	1 s55	4 s40	2 s41	6 s 2 6	0n 3	5n37	0n57	23n 0	0s18	22 s44	0n30	23 s42	0s16	22 s11	0n55	0 s 5 5	15n28	12 s55	13 s13	12 s54	16n26	6 s 1 5
S 2	8 0	2s18	2 54	5 7	2 50	6 57	0s 1	5 21	0 57	23 0	0 18	22 44	0 30	23 42	0 16	22 11	0 55	0 56	15 27	12 55	13 14	12 57	16 25	6 16
S 3	7 38	,	3 44	5 33	2 59	7 27	0 4	5 6	0 57					23 42	0 16	22 11	0 55			12 56			16 25	6 16
M 4	7 16		4 25	5 57	3 8	7 57	0 8	4 51		22 59	0 18		0 30	-	0 16		0 55		-	12 57		-	-	6 17
T 5 W 6	6 54 6 32	-,	4 54 5 11	6 20 6 40	3 16 3 24	8 27 8 56	0 11 0 15	4 35 4 20		22 59 22 59	0 18	22 45 22 45	0 30	23 42 23 42	0 16	22 11 22 11	0 54			12 57		13 6 13 9	16 23	6 17 6 18
T 7		-	5 15	6 59	3 31	9 26	0 19	4 20		22 58		22 45		23 42		22 11	0 54					13 11		6 18
F 8			5 4	7 15	3 38	9 55	0 22	3 49		22 58		22 45		23 42		22 11	0 54					13 14		6 19
S 9	5 24	27 55	4 40	7 28	3 45	10 25	0 26	3 33	0 55	22 57	0 18	22 45	0 29	23 42	0 16	22 11	0 54	1 2	15 24	12 59	13 21	13 17	16 19	6 19
S 10	5 2	27 20	4 1	7 39	3 51	10 54	0 30	3 17	0 54	22 57	0 18	22 45	0 29	23 42	0 16	22 11	0 54	1 3	15 23	12 59	13 23	13 20	16 18	6 20
M11	4 39	25 15	3 9	7 47	3 56	11 22	0 34	3 2	0 54	22 57	0 18	22 45	0 29	23 42	0 16	22 11	0 54	1 4	15 23	12 58	13 24	13 23	16 17	6 20
T 12	4 16	21 42	2 5	7 52	4 0	11 51	0 37	2 46	0 54	22 56	0 18	22 46	0 29	23 42	0 16	22 12	0 54	1 5	15 22	12 58	13 25	13 26	16 16	6 21
W13	3 53	16 49	0 52	7 53	4 3	12 19	0 41	2 31	0 53	22 56	0 18	22 46	0 29	23 42	0 16	22 12	0 54	1 5	15 22	12 57	13 26	13 29	16 15	6 21
T 14		10 52	0n26	7 51	4 5		0 45	2 15		22 55		22 46		23 42	0 16		0 54					13 32		6 22
F 15	3 7	4 12	1 45	7 45	4 6	13 15	0 49	1 59	0 53	22 55	0 18	22 46	0 29	23 42	0 16	22 12	0 54	1 7	15 21	12 58	13 28	13 35	16 14	6 22
S 16	2 44	2n49	2 58	7 35	4 6	13 42	0 53	1 44	0 52	22 55	0 17	22 46	0 28	23 42	0 16	22 12	0 54	1 8	15 21	12 58	13 29	13 38	16 13	6 23
S 17	2 21	9 43	3 59	7 21	4 4	14 9	0 57	1 28	0 52	22 54	0 17	22 46	0 28	23 42	0 16	22 12	0 54	1 9	15 20	13 0	13 30	13 41	16 12	6 24
M18	1 58	16 2	4 43	7 3	4 0	14 36	1 1	1 12	0 51	22 54	0 17	22 46	0 28	23 42	0 16	22 12	0 54	1 10	15 20	13 1	13 31	13 43	16 11	6 24
T 19	1 35		5 8	6 40	3 55	15 3	1 5	0 56		22 53	0 17	22 46	0 28	23 42	0 16	22 12	0 54	1 11	15 19	13 2	13 32	13 46	16 10	6 25
W20		-	5 11	6 14	3 48		1 9	0 40		22 53		22 46		23 42			0 54		15 19			13 49		6 25
T 21			4 56	5 43	3 39		1 13	0 25		22 53		22 46		23 42			0 54	-	15 19			13 52		6 26
F 22			4 24	5 9	3 28	-	1 17	0 9		22 52		22 46		23 42		22 12	0 54		15 18	-		13 55		6 26
S 23	0 1	26 35	3 38	4 32	3 15	16 46	1 20	0s 7	0 50	22 52	0 17	22 47	0 28	23 42	0 16	22 12	0 54	1 14	15 18	13 4	13 36	13 58	16 6	6 27
S 24	0 s22	23 55	2 42	3 53	3 0	17 11	1 24	0 23	0 49	22 52	0 17	22 47	0 27	23 42	0 16	22 12	0 54	1 15	15 17	13 4	13 37	14 1	16 5	6 28
M25	0 45	20 7	1 39	3 12	2 43	17 35	1 28	0 39	0 49	22 51	0 17	22 47	0 27	23 42	0 16	22 12	0 54	1 16	15 17	13 3	13 38	14 4	16 4	6 28
T 26	1 9	15 29	0 32	2 30	2 26	17 59	1 32	0 54	0 48	22 51	0 17	22 47	0 27	23 42	0 16	22 12	0 54	1 17	15 17	13 3	13 39	14 6	16 4	6 29
W27	1 32	10 19	0 s34	1 48	2 7	18 23	1 36	1 10	0 48	22 50	0 17	22 47	0 27	23 42	0 16	22 12	0 54	1 18	15 16	13 3	13 40	14 9	16 3	6 29
T 28	1 56	4 49	1 39	1 7	1 47	18 46	1 40	1 26	0 48	22 50	0 17	22 47	0 27	23 42	0 16	22 12	0 54	1 19	15 16	13 3	13 41	14 12	16 2	6 30
F 29	2 19	0 s47	2 38	0 28	1 27	19 9	1 44	1 42	0 47	22 50	0 17	22 47		23 42		22 12	0 54	1 20	15 16	13 5	13 43	14 15	16 1	6 31
S 30	2 s42	6 s 1 8	3 s29	0n 8	1 s 7	19s31	1 s48	1 s58	0n47	22n49	0s17	22 s47	0n27	23 s42	0s16	22 s12	0n54	1 s21	15n15	13 s 7	13 s44	14s18	16n 0	6 s 3 1

Julian Day Number = 2447770.5, Delta T = 56.66 sec Ecliptic obliquity =  $23^{\circ}26'34$ , Nutation =  $0^{\circ}00'11$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}35'45$ , Lahiri =  $23^{\circ}42'46$ 

OCTOBER 1989 00:00 UT

Day	Sid.t	0	D	×	0	-71	) i	Ł	₩	),(	D	•	Ω	ſ	K	Day
		0		ğ	φ	ď	4	<u>ħ</u>	<u>)Å(</u>	<del></del>	В	u		Ç	Š.	,
S 1	0 38 50	7 <b>≙</b> 47'44	19 <b>≙</b> 42	26°R31	21 <b>m</b> .19	7 <b>≙</b> 24	9 <b>93</b> 7	7 <b>云</b> 37	1 <b>ට</b> 31	9 <b>⋜</b> 38	13 <b>M</b> .40	25°R 7	23≈20	26 <b>♀</b> 7	1695 6	S 1
M 2	0 42 46	8°46'46	1 <b>M</b> .32	26Mp 5	22°28	8° 3	9°42	7°39	1°32	9°38	13°42	24≈59	23°17	26°13	16° 8	M 2
T 3	0 46 43	9°45'50	13°23	25°50	23°36	8°42	9°47	7°41	1°34	9°39	13°44	24°50	23°14	26°20	16°11	T 3
W 4	0 50 39	10°44'55	25°17	25°D44	24°44	9°21	9°52	7°43	1°35	9°39	13°46	24°42	23°10	26°27	16°13	W 4
T 5	0 54 36	11°44'03	7 <b>.</b> ₹15	25°50	25°52	10° 0	9°56	7°45	1°36	9°40	13°49	24°35	23° 7	26°34	16°15	T 5
F 6	0 58 32	12°43'12	1 <u>9</u> °22	26° 6	27° 0	10°40	10° 1	7°48	1°37	9°40	13°51	24°30	23° 4	26°40	16°16	F 6
S 7	1 2 29	13°42'23	1 <b>ਰ</b> 41	26°31	28° 7	11°19	10° 5	7°50	1°39	9°41	13°53	24°27	23° 1	26°47	16°18	S 7
S 8	1 6 25	14°41'36	14°16	27° 7	29°15	11°58	10° 9	7°53	1°40	9°41	13°55	24°D26	22°58	26°54	16°20	S 8
M 9	1 10 22	15°40'51	27°12	27°51	0 <b>∡</b> 122	12°38	10°13	7°55	1°42	9°42	13°57	24°27	22°55	27° 0	16°22	M 9
T 10	1 14 19	16°40'07	10≈32	28°43	1°30	13°17	10°17	7°58	1°43	9°42	13°59	24°28	22°51	27° 7	16°23	T 10
W11	1 18 15	17°39'25	24°20	29°43	2°37	13°56	10°21	8° 1	1°45	9°43	14° 2	24°R29	22°48	27°14	16°25	W11
T 12	1 22 12	18°38'45	8 <b>)</b> (36	0 <b>ჲ</b> 50	3°44	14°36	10°24	8° 4	1°46	9°44	14° 4	24°28	22°45	27°20	16°26	T 12
F 13	1 26 8	19°38'06	23°19	2° 3	4°51	15°15	10°27	8° 7	1°48	9°44	14° 6	24°25	22°42	27°27	16°27	F 13
S 14	1 30 5	20°37'30	8 <b>Y</b> 24	3°21	5°57	15°55	10°30	8°10	1°49	9°45	14° 8	24°19	22°39	27°34	16°28	S 14
S 15	1 34 1	21°36'55	23°41	4°43	7° 4	16°34	10°33	8°13	1°51	9°46	14°11	24°12	22°35	27°41	16°29	S 15
M16	1 37 58	22°36'23	98 1	6° 9	8°10	17°14	10°36	8°16	1°53	9°47	14°13	24° 3	22°32	27°47	16°30	M16
T 17	1 41 54	23°35'53	24°11	7°39	9°17	17°53	10°38	8°20	1°55	9°47	14°15	23°54	22°29	27°54	16°31	T 17
W18	1 45 51	24°35'25	9 <b>I</b> I 2	9°11	10°23	18°33	10°41	8°23	1°57	9°48	14°18	23°46	22°26	28° 1	16°32	W18
T 19	1 49 48	25°34'59	23°28	10°45	11°28	19°12	10°43	8°27	1°58	9°49	14°20	23°40	22°23	28° 7	16°33	T 19
F 20	1 53 44	26°34'36	79524	12°22	12°34	19°52	10°45	8°30	2° 0	9°50	14°22	23°36	22°20	28°14	16°34	F 20
S 21	1 57 41	27°34'14	20°51	13°59	13°39	20°32	10°46	8°34	2° 2	9°51	14°25	23°34	22°16	28°21	16°34	S 21
S 22	2 1 37	28°33'56	3 <b>Ω</b> 52	15°38	14°45	21°11	10°48	8°38	2° 4	9°52	14°27	23°D34	22°13	28°28	16°35	S 22
M23	2 5 34	29°33'39	16°31	17°18	15°50	21°51	10°49	8°41	2° 6	9°53	14°29	23°35	22°10	28°34	16°35	M23
T 24	2 9 30	0MJ33'24	28°51	18°58	16°55	22°31	10°50	8°45	2° 9	9°54	14°32	23°R35	22° 7	28°41	16°36	T 24
W25	2 13 27	1°33'12	10 <b>m</b> 59	20°38	17°59	23°11	10°51	8°49	2°11	9°55	14°34	23°33	22° 4	28°48	16°36	W25
T 26	2 17 23	2°33'02	22°58	22°19	19° 4	23°51	10°52	8°53	2°13	9°56	14°36	23°29	22° 1	28°54	16°36	T 26
F 27	2 21 20	3°32'54	4 <b>₽</b> 51	24° 0	20° 8	24°31	10°52	8°57	2°15	9°57	14°39	23°23	21°57	29° 1	16°R36	F 27
S 28	2 25 17	4°32'48	16°42	25°41	21°12	25°10	10°53	9° 2	2°18	9°59	14°41	23°13	21°54	29° 8	16°36	S 28
S 29	2 29 13	5°32'44	28°33	27°21	22°16	25°50	10°R53	9° 6	2°20	10° 0	14°44	23° 1	21°51	29°15	16°36	S 29
M30	2 33 10	6°32'42	10M25	29° 2	23°19	26°30	10°53	9°10	2°22	10° 1	14°46	22°47	21°48	29°21	16°36	M30
T 31	2 37 6	7 <b>M</b> _32'42	22 <b>M</b> 20	0 <b>M</b> .42	24 <b>×</b> 122	27 <b>≙</b> 10	10952	9 <b>ප</b> 15	2 <b>ප්</b> 25	10 ට 2	14 <b>M</b> 48	22≈33	21≈45	29 <b>॒</b> 28	16935	T 31

Day	0	D	ğ	φ	♂	4	ħ	)Å(	卉	Р	R	Ω Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl dec	decl lat
S 1 M 2		11 s35 4 s11 16 25 4 42	0n41 0s4			22n49 0s17 22 49 0 16			22 s12 0n53 22 12 0 53	1 s22 15n15 1 23 15 14			
T 3		20 39 5 1		8 20 36 1 59					22 12 0 53	1 23 15 14			
W 4 T 5	4 15 4 38	24 3 5 7 26 27 5 0	1 51 0n1 2 4 0 2	10 20 57 2 3 27 21 17 2 7				23 42 0 16 23 42 0 16		1 24 15 14 1 25 15 14		-	
F 6	5 2	27 39 4 39	2 12 0 4	42 21 36 2 10	3 32 0 44	22 48 0 16	22 47 0 26	23 42 0 16	22 12 0 53	1 26 15 13	13 21 13	3 50 14 35	15 55 6 35
S 7	5 25	27 31 4 5	2 15 0 5	56 21 55 2 14	3 48 0 44	22 47 0 16	22 47 0 26	23 42 0 16	22 12 0 53	1 27 15 13	13 22 13	3 51 14 38	3 15 54 6 36
S 8 M 9	5 48 6 10		2 12 1 2 5 1 2	9 22 14 2 18 20 22 32 2 21					22 12 0 53 22 12 0 53	1 28 15 13 1 29 15 12			
T 10		18 47 1 14		30 22 49 2 25					22 12 0 53	1 30 15 12			
W11 T 12		13 26 0 1	1 36 1 3					-	22 12 0 53	1 31 15 12			
F 13	7 18 7 41	7 11 1n15 0 23 2 28		45 23 23 2 31 50 23 39 2 35					22 12 0 53 22 12 0 53	1 31 15 12 1 32 15 11			
S 14	8 3	6n35 3 33	0 25 1 5	54 23 54 2 38	5 38 0 41	22 46 0 16	22 46 0 25	23 42 0 16	22 12 0 53	1 33 15 11	13 25 13	3 58 14 57	15 48 6 40
S 15		13 16 4 23	0s 5 1 5						22 12 0 53	1 34 15 11			1
M16 T 17		19 8 4 54 23 44 5 4	0 37 2 1 11 2	0 24 23 2 44 1 24 36 2 48		22 46 0 16 22 46 0 15		23 42 0 16 23 42 0 16		1 35 15 11 1 36 15 10		-	15 47 6 41 5 15 46 6 42
W18	9 32	26 39 4 54	1 47 2	1 24 49 2 51	6 40 0 39	22 45 0 15	22 46 0 25	23 42 0 16	22 12 0 53	1 37 15 10	13 36 14	1 2 15 8	15 45 6 43
T 19 F 20	9 54 10 15	27 41 4 24 26 54 3 40	2 25 2 3 4 1 5	0 25 2 2 54 59 25 13 2 56					22 12 0 53 22 12 0 53	1 37 15 10 1 38 15 10			
S 21		24 33 2 45	-						22 12 0 53	1 39 15 9			
S 22	10 58	20 57 1 43		54 25 35 3 2				-	22 12 0 53		13 40 14		
M23 T 24		16 29 0 38 11 26 0s28	5 5 1 5 5 47 1 4					23 42 0 16 23 42 0 16			13 40 14 13 40 14		2 15 42 6 46 5 15 41 6 47
W25	12 1	6 2 1 31	6 28 1 4						22 12 0 53		13 40 14	-	3 15 40 6 47
T 26 F 27	12 22	0 30 2 29	7 10 1 3 7 52 1 3	38 26 11 3 12 33 26 18 3 14					22 12 0 53 22 12 0 52		-	1 10 15 31 1 12 15 33	
S 28	12 42 13 2	5s 0 3 20 10 18 4 2							22 12 0 52 22 12 0 52			12 13 33	
S 29	13 22	15 13 4 34	9 15 1 2	22 26 31 3 18	9 27 0 34	22 45 0 15	22 44 0 23	23 41 0 16	22 12 0 52	1 45 15 8	13 51 14	1 14 15 39	15 38 6 50
M30 T 31	13 42							-	22 12 0 52 22 s12 0 n52			1 15 15 4	
1 31	14s 2	23811 38 0	10s37 1n1	11 26 s41 3 s22	9837 Un33	22n46 0s14	22 S44 Un23	23 841 US10	22812 Un32	1 s47   15n   8	148 0 14	+810 13844	13113/ 0831

Julian Day Number = 2447800.5, Delta T = 56.70 sec Ecliptic obliquity =  $23^{\circ}26'34$ , Nutation =  $0^{\circ}00'09$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}35'50$ , Lahiri =  $23^{\circ}42'50$ 

NOVEMBER 1989 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	朴	Р	₽.	Ω	ţ	, k	Day
W 1	2 41 3	8MJ32'44	4 <b>才</b> 19	2M22	25 <b>×</b> <sup>7</sup> 25	27 <b>≙</b> 50	10°R52	9 <b>ට</b> 19	2 <b>る</b> 27	10궁 4	14 <b>M</b> 51	22°R19	21≈41	29 <b>≙</b> 35	16°R35	W 1
T 2	2 44 59	9°32'48	16°23	4° 2	26°28	28°31	10951	9°24	2°30	10° 5	14°53	22≈ 8	21°38	29°41	16934	T 2
F 3	2 48 56	10°32'53	28°35	5°41	27°30	29°11	10°50	9°29	2°32	10° 6	14°56	21°59	21°35	29°48	16°34	F 3
S 4	2 52 52	11°33'00	10 <b>る</b> 57	7°20	28°32	29°51	10°49	9°33	2°35	10° 8	14°58	21°52	21°32	29°55	16°33	S 4
S 5	2 56 49	12°33'09	23°32	8°59	29°34	0 <b>M</b> .31	10°48	9°38	2°37	10° 9	15° 1	21°49	21°29	OM 2	16°32	S 5
M 6	3 0 46	13°33'19	6≈23	10°37	0 <b>궁</b> 35	1°11	10°46	9°43	2°40	10°10	15° 3	21°48	21°26	0°8	16°31	M 6
T 7	3 4 42	14°33'31	19°36	12°15	1°36	1°51	10°44	9°48	2°43	10°12	15° 5	21°48	21°22	0°15	16°31	T 7
W 8	3 8 3 9	15°33'44	3 <b>):</b> 13	13°52	2°37	2°32	10°43	9°53	2°45	10°13	15° 8	21°47	21°19	0°22	16°30	W 8
T 9	3 12 35	16°33'58	17°16	15°29	3°37	3°12	10°40	9°58	2°48	10°15	15°10	21°46	21°16	0°28	16°28	T 9
F 10	3 16 32	17°34'14	1 <b>Υ</b> 45	17° 6	4°37	3°52	10°38	10° 3	2°51	10°16	15°13	21°42	21°13	0°35	16°27	F 10
S 11	3 20 28	18°34'31	16°38	18°42	5°37	4°33	10°36	10° 9	2°54	10°18	15°15	21°35	21°10	0°42	16°26	S 11
S 12	3 24 25	19°34'50	1849	20°18	6°36	5°13	10°33	10°14	2°56	10°19	15°18	21°25	21° 7	0°49	16°25	S 12
M13	3 28 21	20°35'11	17° 6	21°54	7°34	5°54	10°30	10°19	2°59	10°21	15°20	21°14	21° 3	0°55	16°23	M13
T 14	3 32 18	21°35'33	2Ⅲ20	23°29	8°32	6°34	10°27	10°25	3° 2	10°23	15°22	21° 2	21° 0	1° 2	16°22	T 14
W15	3 36 15	22°35'58	17°18	25° 4	9°30	7°15	10°24	10°30	3° 5	10°24	15°25	20°52	20°57	1° 9	16°20	W15
T 16	3 40 11	23°36'23	1953	26°39	10°27	7°55	10°20	10°36	3° 8	10°26	15°27	20°43	20°54	1°15	16°18	T 16
F 17	3 44 8	24°36'51	15°59	28°13	11°24	8°36	10°17	10°41	3°11	10°28	15°30	20°37	20°51	1°22	16°17	F 17
S 18	3 48 4	25°37'21	29°35	29°48	12°20	9°16	10°13	10°47	3°14	10°29	15°32	20°34	20°47	1°29	16°15	S 18
S 19	3 52 1	26°37'52	12 <b>Ω</b> 41	1 <b>₹</b> 22	13°16	9°57	10° 9	10°53	3°17	10°31	15°34	20°32	20°44	1°36	16°13	S 19
M20	3 55 57	27°38'25	25°23	2°55	14°11	10°38	10° 5	10°58	3°20	10°33	15°37	20°32	20°41	1°42	16°11	M20
T 21	3 59 54	28°38'59	7 <b>m</b> 44	4°29	15° 6	11°18	10° 0	11° 4	3°23	10°35	15°39	20°32	20°38	1°49	16° 9	T 21
W22	4 3 50	29°39'36	19°50	6° 2	16° 0	11°59	9°56	11°10	3°26	10°37	15°42	20°31	20°35	1°56	16° 6	W22
T 23	4 7 47	0 <b>₮</b> 40'14	1 <b>≏</b> 46	7°36	16°53	12°40	9°51	11°16	3°30	10°38	15°44	20°27	20°32	2° 2	16° 4	T 23
F 24	4 11 44	1°40'54	13°37	9° 9	17°46	13°21	9°46	11°22	3°33	10°40	15°46	20°20	20°28	2° 9	16° 2	F 24
S 25	4 15 40	2°41'35	25°27	10°42	18°37	14° 2	9°41	11°28	3°36	10°42	15°49	20°11	20°25	2°16	15°59	S 25
S 26	4 19 37	3°42'18	7 <b>M</b> ₊19	12°14	19°29	14°43	9°36	11°34	3°39	10°44	15°51	19°59	20°22	2°23	15°57	S 26
M27	4 23 33	4°43'02	19°14	13°47	20°19	15°24	9°30	11°40	3°42	10°46	15°53	19°45	20°19	2°29	15°54	M27
T 28	4 27 30	5°43'48	1 <b>才</b> 16	15°20	21° 9	16° 5	9°25	11°46	3°46	10°48	15°56	19°31	20°16	2°36	15°52	T 28
W29	4 31 26	6°44'35	13°24	16°52	21°58	16°46	9°19	11°53	3°49	10°50	15°58	19°17	20°12	2°43	15°49	W29
T 30	4 35 23	7 <b>.₹</b> 145'24	25 <b>×</b> 39	18 <b>×</b> 24	22 <b>궁</b> 46	17 <b>M</b> 27	99513	11 <b>る</b> 59	3 <b>る</b> 52	10 <b>궁</b> 52	16 <b>M</b> 0	19 <b>≈</b> 5	20≈ 9	2 <b>M</b> 49	159546	T 30

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T 14 W15 T 16 F 17 S 18	18 10 18 25 18 41 18 56 19 10	25 26 4 54 27 18 4 29 27 12 3 47 25 19 2 52	19 0 19 30	0 22 26 42 0 28 26 37 0 35 26 32 0 41 26 27 0 48 26 21	3 32 13 13 3 32 13 33 3 31 13 43 3 31 13 55 3 30 14 12	0 26 0 26 0 25 0 25	22 49 22 49 22 50 22 50 22 50	0 13 0 13 0 13 0 13	22 40 22 40 22 40 22 39 22 39	0 22 0 22 0 22 0 21	23 40 23 40 23 40 23 40 23 40 23 40	0 16 0 16 0 16 0 16	22 10 0 22 10 0 22 10 0 22 10 0	0 52 0 52 0 52 0 52 0 52 0 52 0 52	1 57 15 7 1 57 15 7 1 58 15 7 1 59 15 7	14 29 14 33 14 35 14 37 14 38	14 30 14 31 14 32 14 33	16 22 16 24 16 27 16 30	15 30 15 29 15 29 15 28	7 0 7 0 7 1 7 2 7 2
S 19 M20 T 21 W22 T 23 F 24 S 25	19 24 19 38 19 52 20 5 20 18 20 30 20 42	12 40 0s26 7 17 1 30 1 45 2 28 3 s45 3 19 9 5 4 2	21 43	0 54 26 14 1 0 26 7 1 6 25 59 1 12 25 51 1 17 25 43 1 23 25 34 1 28 25 24	3 28 14 2: 3 27 14 39 3 25 14 5: 3 24 15 3 3 22 15 18 3 19 15 3 3 17 15 4:	0 0 23 0 0 23 5 0 22 8 0 22 1 0 21	22 51 22 52 22 52 22 52 22 53 22 53 22 53	0 12 0 12 0 12 0 12 0 12	22 39 22 38 22 38 22 37 22 37 22 37 22 36	0 21 0 21 0 21 0 21 0 21	23 40 23 40 23 40	0 16 0 16 0 16 0 16 0 16	22 10 0 22 10 0 22 10 0 22 10 0 22 10 0 22 9 0	0 52 0 52 0 52 0 52 0 52 0 52 0 52 0 52	2 1 15 8 2 1 15 8 2 2 15 8 2 2 15 8 2 3 15 8	14 39 14 39 14 39 14 39 14 40 14 43 14 46	14 36 14 37 14 38 14 39 14 40	16 38 16 40 16 43 16 46 16 48	15 27 15 27 15 27 15 27 15 26	7 3 7 3 7 4 7 4 7 5 7 5 7 6
W29	21 5 21 16 21 26	22 21 5 0 25 12 4 54 26 57 4 35	23 48 24 5 24 20 24 35 24 s47	1 33 25 14 1 38 25 4 1 43 24 53 1 47 24 41 1 s52 24 s30	3 14 15 50 3 11 16 9 3 8 16 2 3 5 16 33 3 8 1 16 84	0 19 0 19 0 18	22 54 22 54 22 55 22 55 22n56	0 12 0 12 0 11	22 36 22 35 22 35 22 34 22 s34	0 21 0 20 0 20	23 40 23 39 23 39 23 39 23 s39	0 16 0 16 0 16	22 9 0 22 9 0 22 9 0	0 52 0 51 0 51 0 51 0 51 0 n51	2 4 15 8		14 43 14 44 14 45	16 56 16 59 17 1	15 26 15 25 15 25	7 6 7 7 7 7 7 8 7s 8

Julian Day Number = 2447831.5, Delta T = 56.75 sec Ecliptic obliquity =  $23^{\circ}26'33$ , Nutation =  $0^{\circ}00'09$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}35'54$ , Lahiri =  $23^{\circ}42'54$ 

DECEMBER 1989 00:00 UT

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F 1	4 39 19	8 <b>∡</b> 146'14	8	19 <b>х</b> 56	23중33	18 <b>M</b> 8	9°R 7	12 <b>る</b> 5	3 <b>る</b> 56	10 <b>궁</b> 54	16M 3	18°R56	20≈ 6	2 <b>M</b> 56	15°R44	F 1
S 2	4 43 16	9°47'04	20°37	21°28	24°20	18°49	995 1	12°11	3°59	10°56	16° 5	18 <b>≈</b> 49	20° 3	3° 3	159541	S 2
S 3	4 47 13	10°47'56	3≈22	23° 0	25° 5	19°30	8°54	12°18	4° 2	10°58	16° 7	18°46	20° 0	3°10	15°38	S 3
M 4	4 51 9	11°48'48	16°20	24°32	25°49	20°11	8°48	12°24	4° 6	11° 0	16° 9	18°D45	19°57	3°16	15°35	M 4
T 5	4 55 6	12°49'41	29°33	26° 3	26°33	20°52	8°41	12°31	4° 9	11° 2	16°12	18°45	19°53	3°23	15°32	T 5
W 6	4 59 2	13°50'35	13 <b>)</b> 5	27°34	27°15	21°34	8°35	12°37	4°13	11° 4	16°14	18°R45	19°50	3°30	15°28	W 6
T 7	5 2 59	14°51'30	26°57	29° 5	27°56	22°15	8°28	12°44	4°16	11° 6	16°16	18°45	19°47	3°36	15°25	T 7
F 8	5 6 5 5	15°52'25	11 <b>Y</b> 10	0 <b>궁</b> 36	28°36	22°56	8°21	12°50	4°20	11°8	16°18	18°42	19°44	3°43	15°22	F 8
S 9	5 10 52	16°53'21	25°43	2° 6	29°15	23°38	8°14	12°57	4°23	11°10	16°20	18°37	19°41	3°50	15°19	S 9
S 10	5 14 48	17°54'18	10831	3°36	29°53	24°19	8° 7	13° 4	4°27	11°12	16°23	18°30	19°38	3°57	15°15	S 10
M11	5 18 45	18°55'16	25°29	5° 5	0≈29	25° 0	7°59	13°10	4°30	11°14	16°25	18°21	19°34	4° 3	15°12	M11
T 12	5 22 42	19°56'14	10Ⅱ26	6°33	1° 3	25°42	7°52	13°17	4°34	11°17	16°27	18°11	19°31	4°10	15° 8	T 12
W13	5 26 38	20°57'13	25°14	8° 1	1°37	26°23	7°45	13°24	4°37	11°19	16°29	18° 2	19°28	4°17	15° 5	W13
T 14	5 30 35	21°58'13	99545	9°28	2° 9	27° 5	7°37	13°30	4°41	11°21	16°31	17°55	19°25	4°24	15° 1	T 14
F 15	5 34 31	22°59'14	23°52	10°53	2°39	27°46	7°29	13°37	4°44	11°23	16°33	17°50	19°22	4°30	14°58	F 15
S 16	5 38 28	24° 0'15	7 <b>Ω</b> 31	12°18	3° 7	28°28	7°22	13°44	4°48	11°25	16°35	17°47	19°19	4°37	14°54	S 16
S 17	5 42 24	25° 1'18	20°44	13°40	3°34	29°10	7°14	13°51	4°51	11°27	16°37	17°D47	19°15	4°44	14°50	S 17
M18	5 46 21	26° 2'21	3 <b>m</b> 31	15° 1	4° 0	29°51	7° 6	13°58	4°55	11°30	16°39	17°48	19°12	4°50	14°46	M18
T 19	5 50 18	27° 3'25	15°57	16°20	4°23	0 <b>∡</b> 33	6°58	14° 5	4°58	11°32	16°41	17°49	19° 9	4°57	14°43	T 19
W20	5 54 14	28° 4'30	28° 7	17°36	4°45	1°15	6°50	14°12	5° 2	11°34	16°43	17°R49	19° 6	5° 4	14°39	W20
T 21	5 58 11	2 <u>9°</u> 5'36	10 <b>♀</b> 5	18°49	5° 4	1°57	6°42	14°19	5° 6	11°36	16°45	17°48	19° 3	5°11	14°35	T 21
F 22	6 2 7	0중 6'42	21°57	19°59	5°22	2°39	6°34	14°25	5° 9	11°39	16°47	17°46	18°59	5°17	14°31	F 22
S 23	6 6 4	1° 7'50	3 <b>M</b> .48	21° 5	5°38	3°20	6°26	14°32	5°13	11°41	16°49	17°41	18°56	5°24	14°27	S 23
S 24	6 10 0	2° 8'58	15°41	22° 5	5°51	4° 2	6°18	14°39	5°16	11°43	16°51	17°34	18°53	5°31	14°23	S 24
M25	6 13 57	3°10'06	27°41	23° 1	6° 3	4°44	6°10	14°46	5°20	11°45	16°53	17°26	18°50	5°37	14°19	M25
T 26	6 17 53	4°11'15	9 <b>∡</b> 149	23°50	6°12	5°26	6° 2	14°53	5°24	11°48	16°54	17°17	18°47	5°44	14°15	T 26
W27	6 21 50	5°12'25	22° 7	24°33	6°19	6° 8	5°54	15° 1	5°27	11°50	16°56	17° 9	18°44	5°51	14°11	W27
T 28	6 25 47	6°13'35	4 <b>云</b> 37	25° 7	6°23	6°50	5°45	15° 8	5°31	11°52	16°58	17° 2	18°40	5°58	14° 7	T 28
F 29	6 29 43	7°14'45	17°19	25°33	6°R25	7°32	5°37	15°15	5°34	11°54	17° 0	16°56	18°37	6° 4	14° 3	F 29
S 30	6 33 40	8°15'56	0≈12	25°48	6°25	8°15	5°29	15°22	5°38	11°57	17° 1	16°53	18°34	6°11	13°59	S 30
S 31	6 37 36	9 <b>ට</b> 17'06	13 <b>≈</b> 17	25°R54	6≈22	8 <b>∡</b> 757	59521	15 <b>る</b> 29	5 <b>七</b> 42	11 <b>る</b> 59	17 <b>M</b> 3	16°D51	18 <b>≈</b> 31	6 <b>M</b> .18	13955	S 31

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W20 T 21 F 22	23 21 23 23 23 25 23 26 23 26 23 27 23 26	3 18 2s18 7 44 12 50	1 24 2 26 3 20 4 4 4 37	24 54 24 41 24 27 24 12 23 56 23 39 23 21	2 6 2 2 1 56 1 50 1 43		1 4 0 54 0 44 0 34 0 23	19 51 20 0 20 10 20 19 20 28 20 37 20 45	0 7 0 7 0 6 0 5 0 5	23 7 23 7 23 8 23 8	0 9 0 9 0 9 0 9 0 9	22 25 22 24 22 23 22 23 22 22 22 21 22 21	0 19 0 19 0 19 0 18 0 18	23 37 23 37 23 37 23 37 23 37 23 37 23 36	0 16 0 16 0 16 0 16 0 16	22 6 0 5 22 6 0 5 22 6 0 5 22 6 0 5 22 5 0 5 22 5 0 5	1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	2 15 12 2 15 12 3 15 13 3 15 13 3 15 13 3 15 14 4 15 14	15 30 15 30 15 30 15 30 15 31	15 4 15 5 15 6 15 7 15 8		15 24 15 25 15 25	7 15 7 15 7 16 7 16 7 16 7 17 7 17
W27 T 28 F 29 S 30	23 24 23 23 23 20	26 37 27 25 26 50 24 51 21 34	5 3 4 45 4 13 3 29 2 33 1 29	21 44 21 25	1 16 1 4 0 52 0 38 0 23 0 7	18 20 18 6	0 12 0 25 0 37 0 51 1 4 1 18	21 11 21 19	0 3 0 2 0 2 0 1 0 0 0s 0	23 9 23 10 23 10 23 11 23 11 23 12 23 12 23 12	0 8 0 8 0 8 0 8 0 8 0 7	22 19 22 18 22 17	0 18 0 18 0 18 0 18 0 18 0 18	23 36 23 36 23 36 23 36 23 36 23 36 23 36 23 835	0 16 0 16 0 16 0 16 0 16 0 16	22 5 0 5 22 4 0 5	1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	4 15 14 4 15 15 4 15 15 4 15 15 5 15 16 5 15 16 5 15n17	15 37 15 39 15 42 15 44 15 46 15 47	15 11 15 12 15 13 15 14 15 15 15 16	18 7 18 9 18 12 18 14 18 17 18 19	15 26 15 26 15 26 15 26 15 26 15 27	7 17 7 17 7 17 7 18 7 18 7 18 7 18 7 18

 $\label{eq:Julian Day Number = 2447861.5, Delta T = 56.80 sec} \\ Ecliptic obliquity = 23°26'33, Nutation = 0°00'10, out-of-bounds declination in red$