

# Astrodienst Ephemeris Tables for the year 1980

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 1980 00:00 UT

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T 1	6 39 15	9 <b>궁</b> 42'54	23 <b>II</b> 9	27 <b>×</b> 757	11≈24	13 <b>m</b> 58	10°R12	26 <b>m</b> 59	24M 3	20 <b>х</b> 55	21 <b>≏</b> 36	0°R28	1 <b>m</b> 54	19 <b>m</b> 26	9°R18	T 1
W 2	6 43 11	10°44'02	69915	29°29	12°38	14° 8	10 <b>m</b> )11	27° 0	24° 6	20°58	21°37	0 <b>m</b> 19	1°51	19°32	9 <b>8</b> 17	W 2
T 3	6 47 8	11°45'10	19° 6	1ਰ 1	13°52	14°18	10° 9	27° 0	24° 9	21° 0	21°38	0°11	1°47	19°39	9°16	T 3
F 4	6 51 5	12°46'18	1 <b>Ω</b> 40	2°34	15° 6	14°27	10° 8	27° 1	24°11	21° 2	21°39	0° 5	1°44	19°46	9°15	F 4
S 5	6 55 1	13°47'27	14° 0	4° 7	16°19	14°35	10° 6	27° 1	24°14	21° 4	21°40	0° 1	1°41	19°52	9°14	S 5
S 6	6 58 58	14°48'35	26° 6	5°40	17°33	14°42	10° 4	27° 1	24°17	21° 6	21°40	29°D59	1°38	19°59	9°13	S 6
M 7	7 2 54	15°49'43	8Mp 2	7°13	18°47	14°49	10° 2	27°R 1	24°19	21° 8	21°41	0° 0	1°35	20° 5	9°12	M 7
T 8	7 6 51	16°50'52	19°52	8°47	20° 1	14°56	10° 0	27° 1	24°22	21°10	21°42	0° 1	1°32	20°12	9°12	T 8
W 9	7 10 47	17°52'00	1 <b>≏</b> 39	10°22	21°14	15° 1	9°57	27° 1	24°25	21°12	21°42	0° 3	1°28	20°19	9°11	W 9
T 10	7 14 44	18°53'09	13°30	11°57	22°28	15° 6	9°55	27° 1	24°27	21°14	21°43	0°R 4	1°25	20°25	9°10	T 10
F 11	7 18 40	19°54'18	25°29	13°32	23°42	15°10	9°52	27° 0	24°30	21°16	21°43	0° 4	1°22	20°32	9°10	F 11
S 12	7 22 37	20°55'26	7 <b>M</b> .42	15° 8	24°55	15°14	9°49	27° 0	24°32	21°19	21°44	0° 3	1°19	20°39	9° 9	S 12
S 13	7 26 34	21°56'35	20°13	16°44	26° 9	15°17	9°46	26°59	24°35	21°21	21°44	29 <b>Ω</b> 59	1°16	20°45	9° 9	S 13
M14	7 30 30	22°57'44	3 <b>∡</b> 7 6	18°20	27°22	15°19	9°42	26°58	24°37	21°23	21°44	29°54	1°12	20°52	9° 9	M14
T 15	7 34 27	23°58'52	16°23	19°57	28°36	15°20	9°39	26°58	24°39	21°25	21°45	29°49	1° 9	20°59	9° 8	T 15
W16	7 38 23	25° 0'00	0중 5	21°35	29°49	15°R21	9°35	26°57	24°42	21°27	21°45	29°42	1° 6	21° 5	9° 8	W16
T 17	7 42 20	26° 1'08	14° 9	23°13	1 <b>¥</b> 2	15°21	9°31	26°56	24°44	21°28	21°45	29°37	1° 3	21°12	9° 8	T 17
F 18	7 46 16	27° 2'16	28°32	24°51	2°16	15°20	9°27	26°54	24°46	21°30	21°46	29°33	1° 0	21°19	9° 8	F 18
S 19	7 50 13	28° 3'23	13 <b>≈</b> 8	26°30	3°29	15°18	9°22	26°53	24°48	21°32	21°46	29°30	0°57	21°25	9°D 8	S 19
S 20	7 54 9	29° 4'29	27°50	28°10	4°42	15°15	9°18	26°52	24°51	21°34	21°46	29°D29	0°53	21°32	9°8	S 20
M21	7 58 6	0≈ 5'34	12 <b>)</b> (30	29°50	5°55	15°12	9°13	26°50	24°53	21°36	21°46	29°30	0°50	21°39	9° 8	M21
T 22	8 2 3	1° 6'39	27° 4	1≈31	7° 8	15° 8	9° 9	26°49	24°55	21°38	21°46	29°31	0°47	21°45	9° 8	T 22
W23	8 5 59	2° 7'42	11 <b>Y</b> 27	3°12	8°21	15° 3	9° 4	26°47	24°57	21°40	21°46	29°32	0°44	21°52	9° 8	W23
T 24	8 9 56	3° 8'45	25°37	4°54	9°34	14°57	8°58	26°45	24°59	21°42	21°47	29°34	0°41	21°59	9° 8	T 24
F 25	8 13 52	4° 9'47	9 <b>8</b> 31	6°37	10°47	14°51	8°53	26°44	25° 1	21°43	21°R47	29°R34	0°38	22° 5	9° 9	F 25
S 26	8 17 49	5°10'47	23°10	8°20	12° 0	14°44	8°48	26°42	25° 2	21°45	21°47	29°32	0°34	22°12	9° 9	S 26
S 27	8 21 45	6°11'46	6 <b>П</b> 34	10° 3	13°12	14°36	8°42	26°39	25° 4	21°47	21°46	29°30	0°31	22°19	9°10	S 27
M28	8 25 42	7°12'45	19°44	11°47	14°25	14°27	8°36	26°37	25° 6	21°49	21°46	29°27	0°28	22°25	9°10	M28
T 29	8 29 38	8°13'42	2939	13°32	15°37	14°17	8°31	26°35	25° 8	21°50	21°46	29°24	0°25	22°32	9°11	T 29
W30	8 33 35	9°14'38	15°22	15°17	16°50	14° 7	8°25	26°33	25° 9	21°52	21°46	29°20	0°22	22°39	9°11	W30
T 31	8 37 32	10≈15'33	27952	17 <b>≈</b> 3	18 <b>∺</b> 2	13 <b>M</b> 56	8 <b>m</b> 18	26 <b>m</b> 30	25 <b>M</b> 11	21 <b>×7</b> 54	21 <b>≏</b> 46	29 <b>Ω</b> 18	0 <b>m</b> 18	22 Mp 45	9 <b>8</b> 12	T 31

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S 6 M 7 T 8 W 9 T 10	22 37 22 30 22 23 22 15 22 7	12 29 0 21 9 14 0n44 5 38 1 46 1 51 2 44 2s 2 3 35	24 25 1 : 24 26 1 1 24 25 1 16 24 23 1 22 24 20 1 26	5 17 16 1 46 1 16 52 1 46 6 16 28 1 45 2 16 4 1 44 6 15 39 1 43	9 3 3 17 9 2 3 19 9 2 3 21 9 1 3 23 9 1 3 25	8 51 1 9 8 52 1 9 8 54 1 10 8 55 1 10 8 56 1 10	3 11 2 11 3 12 2 11 3 12 2 12 3 12 2 12 3 13 2 12	18 34 0 17 18 35 0 17 18 35 0 17 18 36 0 17 18 37 0 17	21 48 1 20 21 48 1 20 21 48 1 21 21 49 1 21 21 49 1 21	7 25 17 5 7 25 17 5 7 26 17 6 7 26 17 7 7 26 17 7	11 28 10 54 11 28 10 55 11 28 10 56 11 27 10 57 11 27 10 58	5 28 5 26 5 24 5 22 5 20	13 2 1 37 13 2 1 37 13 2 1 37 13 1 1 37 13 1 1 37
S 12 S 13 M14	21 29	9 32 4 48 12 52 5 7 15 41 5 11	24 16 1 3 24 10 1 30 24 3 1 40 23 54 1 42 23 43 1 4	6 14 49 1 42 0 14 23 1 40 4 13 56 1 39	9 2 3 27 9 2 3 29 9 3 3 31 9 4 3 33 9 5 3 35	8 57 1 10 8 59 1 11 9 0 1 11 9 2 1 11 9 3 1 11	3 13 2 13 3 14 2 13	18 38 0 17 18 39 0 17 18 39 0 17	21 49 1 21 21 49 1 21 21 49 1 21 21 49 1 21 21 49 1 21	7 27 17 8 7 27 17 9 7 28 17 9	11 27 10 59 11 27 11 0 11 29 11 2 11 30 11 3 11 32 11 4	5 18 5 17 5 15 5 13 5 11	13 1 1 37 13 1 1 37 13 1 1 37
W16 T 17 F 18	21 8 20 57	18 57 4 29 19 0 3 43 17 49 2 41	23 32 1 5 23 19 1 5	1 13 3 1 37 4 12 35 1 35 6 12 8 1 34	9 7 3 37 9 8 3 39 9 11 3 41 9 13 3 43	9 5 1 12 9 7 1 12 9 8 1 12 9 10 1 12	3 16 2 14 3 16 2 14 3 17 2 14	18 40 0 17 18 41 0 17 18 41 0 17	21 49 1 21 21 49 1 21 21 50 1 21 21 50 1 21	7 29 17 11	11 34 11 5 11 36 11 6 11 38 11 7	5 9 5 7 5 5	13 1 1 37
S 20 M21 T 22 W23 T 24 F 25	20 8 19 55 19 41 19 27 19 13	7 58 1s11 3 24 2 26 1n18 3 31 5 50 4 21 9 59 4 56	22 11 2 2 21 50 2 4 21 28 2 2 21 4 2 2 20 38 2	2 10 43 1 28 4 10 14 1 27 5 9 45 1 25 5 9 16 1 23 5 8 46 1 21	9 16 3 45 9 19 3 47 9 22 3 49 9 26 3 51 9 30 3 52 9 34 3 54	9 12 1 13 9 14 1 13 9 16 1 13 9 18 1 13 9 20 1 14 9 23 1 14	3 19 2 15 3 20 2 15 3 21 2 16 3 22 2 16 3 23 2 16	18 43 0 17 18 43 0 17 18 44 0 17 18 44 0 17 18 45 0 17	21 50 1 21 21 50 1 21	7 31 17 14 7 32 17 15 7 32 17 15 7 33 17 16	11 39 11 11 11 39 11 12 11 38 11 13 11 38 11 14 11 38 11 15	5 0 4 58 4 56 4 54 4 52	13 1 1 37 13 1 1 37 13 1 1 37
S 26 S 27 M28 T 29 W30 T 31	18 43 18 28 18 13 17 57	16 16 5 12 18 8 4 55 19 1 4 24 18 55 3 39	19 43 2 4 19 13 2 1 18 42 2	4 7 46 1 16 3 7 16 1 14 1 6 46 1 11 9 6 15 1 9	9 38 3 56 9 43 3 58 9 48 4 0 9 54 4 1 9 59 4 3 10n 5 4n 5	9 27 1 14	3 25 2 17 3 26 2 17 3 27 2 17 3 29 2 18	18 46 0 17 18 46 0 17 18 46 0 17 18 47 0 17	21 50 1 21 21 50 1 21 21 50 1 21 21 51 1 21 21 51 1 21 21 51 1 121	7 34 17 17 7 35 17 18 7 35 17 18 7 36 17 19	11 38 11 16 11 39 11 17 11 40 11 18 11 41 11 20 11 42 11 21 11n43 11n22	4 43	13 1 1 37 13 1 1 37 13 2 1 37

Julian Day Number = 2444239.5, Delta T = 50.54 sec Ecliptic obliquity =  $23^{\circ}26'22$ , Nutation = -  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}27'39$ , Lahiri =  $23^{\circ}34'40$ 

FEBRUARY 1980 00:00 UT

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Day	Sid.t	0	D	ğ	Ş	ð	4	ħ	)∤(	并	В	S.	Ω	Ç	ķ	Day
F 1	8 41 28	11≈16'27	10Ω11	18≈48	19 <b>)</b> 14	13°R44	8°R12	26°R28	25 <b>M</b> 12	21 <b>~</b> 55	21°R46	29°R16	0 <b>m</b> 15	22 m/52	9 <b>8</b> 13	F 1
S 2	8 45 25	12°17'20	22°19	20°34	20°27	13 <b>m</b> 31	8M) 6	26Mp25	25°14	21°57	21 <b>≏</b> 45	29 <b>Ω</b> 15	0°12	22°58	9°13	S 2
S 3	8 49 21	13°18'12	4 <b>m</b> ) 18	22°21	21°39	13°17	7°59	26°22	25°15	21°59	21°45	29°D14	0° 9	23° 5	9°14	S 3
M 4	8 53 18	14°19'03	16°11	24° 7	22°51	13° 3	7°53	26°19	25°17	22° 0	21°45	29°15	0° 6	23°12	9°15	M 4
T 5	8 57 14	15°19'53	28° 0	25°53	24° 3	12°48	7°46	26°16	25°18	22° 2	21°44	29°16	0° 3	23°18	9°16	T 5
W 6	9 1 11	16°20'41	9 <b>≙</b> 48	27°39	25°15	12°33	7°39	26°13	25°19	22° 3	21°44	29°18	$29\Omega 59$	23°25	9°17	W 6
T 7	9 5 7	17°21'29	21°39	29°25	26°26	12°16	7°32	26°10	25°21	22° 5	21°43	29°19	29°56	23°32	9°18	T 7
F 8	9 9 4	18°22'16	3 <b>M</b> .38	1 <b>米</b> 9	27°38	11°59	7°25	26° 7	25°22	22° 6	21°43	29°20	29°53	23°38	9°20	F 8
S 9	9 13 1	19°23'02	15°48	2°53	28°50	11°41	7°18	26° 4	25°23	22° 8	21°42	29°R20	29°50	23°45	9°21	S 9
S 10	9 16 57	20°23'47	28°15	4°35	o <b>Υ</b> 1	11°23	7°11	26° 1	25°24	22° 9	21°42	29°20	29°47	23°52	9°22	S 10
M11	9 20 54	21°24'31	11 <b>×</b> 3	6°16	1°12	11° 4	7° 3	25°57	25°25	22°10	21°41	29°20	29°44	23°58	9°23	M11
T 12	9 24 50	22°25'14	24°15	7°54	2°24	10°44	6°56	25°54	25°26	22°12	21°41	29°19	29°40	24° 5	9°25	T 12
W13	9 28 47	23°25'56	7 <b>云</b> 54	9°30	3°35	10°24	6°49	25°50	25°27	22°13	21°40	29°18	29°37	24°12	9°26	W13
T 14	9 32 43	24°26'37	22° 0	11° 2	4°46	10° 4	6°41	25°47	25°28	22°14	21°39	29°18	29°34	24°18	9°28	T 14
F 15	9 36 40	25°27'17	6≈30	12°31	5°57	9°42	6°33	25°43	25°29	22°16	21°39	29°17	29°31	24°25	9°29	F 15
S 16	9 40 36	26°27'55	21°19	13°55	7° 8	9°21	6°26	25°39	25°29	22°17	21°38	29°17	29°28	24°32	9°31	S 16
S 17	9 44 33	27°28'31	6 <b>∺</b> 20	15°14	8°18	8°59	6°18	25°35	25°30	22°18	21°37	29°D17	29°24	24°38	9°32	S 17
M18	9 48 30	28°29'06	21°25	16°28	9°29	8°36	6°10	25°31	25°31	22°19	21°36	29°17	29°21	24°45	9°34	M18
T 19	9 52 26	29°29'40	6 <b>Υ</b> 24	17°34	10°39	8°13	6° 3	25°27	25°31	22°20	21°35	29°R17	29°18	24°52	9°36	T 19
W20	9 56 23	0 <b>)</b> 30′11	21°11	18°34	11°50	7°50	5°55	25°23	25°32	22°22	21°35	29°17	29°15	24°58	9°38	W20
T 21	10 0 19	1°30'41	5 <b>8</b> 38	19°26	13° 0	7°27	5°47	25°19	25°32	22°23	21°34	29°17	29°12	25° 5	9°40	T 21
F 22	10 4 16	2°31'09	19°43	20°10	14°10	7° 4	5°39	25°15	25°33	22°24	21°33	29°17	29° 9	25°12	9°42	F 22
S 23	10 8 12	3°31'35	3 <b>Ⅱ</b> 24	20°44	15°20	6°40	5°31	25°11	25°33	22°25	21°32	29°D16	29° 5	25°18	9°44	S 23
S 24	10 12 9	4°32'00	16°43	21° 9	16°30	6°16	5°23	25° 7	25°33	22°26	21°31	29°17	29° 2	25°25	9°46	S 24
M25	10 16 5	5°32'22	29°42	21°25	17°39	5°52	5°15	25° 2	25°34	22°27	21°30	29°17	28°59	25°32	9°48	M25
T 26	10 20 2	6°32'42	129522	21°R30	18°49	5°29	5° 7	24°58	25°34	22°28	21°29	29°18	28°56	25°38	9°50	T 26
W27	10 23 58	7°33'01	24°48	21°26	19°58	5° 5	5° 0	24°54	25°34	22°29	21°28	29°19	28°53	25°45	9°52	W27
T 28	10 27 55	8°33'17	7 <b>Ω</b> 1	21°12	21° 7	4°41	4°52	24°49	25°34	22°29	21°27	29°19	28°49	25°52	9°54	T 28
F 29	10 31 52	9 <b>∺</b> 33'32	19 <b>N</b> 6	20 <b>)</b> 49	22 <b>Y</b> 16	4 Mp 17	4 <b>m</b> 44	24 Mp 45	25°R34	22 <b>×3</b> 0	21 <b>≏</b> 26	$29\Omega 20$	28 <b>Ω</b> 46	25 <b>m</b> 58	9 <b>8</b> 57	F 29

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F 1	17 s24	16n 2 1s	44 16s5	1 s53	5 s 1 4	1 s 3	10n11	4n 6	9n39	1n15	3n31	2n18	18 s48	0n17	21 s51	1n21	7n37 17n2	-	-	4n39	13n 2	1 s37
S 2	17 7	13 28 0	38 16 2	1 49	4 43	1 1	10 17	4 8	9 42	1 15	3 32	2 18	18 48	0 17	21 51	1 21	7 38 17 2	0 11 44	11 24	4 37	13 3	1 37
S 3			28 15 42		4 12		10 24	4 9	9 45	1 16	3 34		18 48		21 51	1 21	7 38 17 2			4 35	-	1 37
M 4	16 32		33 15 2		3 41	0 55		4 11	9 47	1 16	3 35		18 49		21 51	1 21	7 39 17 2			4 34	-	1 36
T 5	16 14		33 14 2		3 10		10 38	4 12	9 50	1 16	3 36		18 49		21 51	1 21	7 39 17 2			4 32		1 36
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S 10	14 41	14 36 5	18 10 39	0 53	0 33	0 36	11 16	4 18	10 4	1 17	3 44	2 20	18 50	0 17	21 51	1 21	7 43 17 2	5 11 42	11 33	4 22	13 5	1 36
M11	14 22	16 58 5	11 9 5	0 43	0 1	0 33	11 24	4 19	10 7	1 17	3 45	2 20	18 51	0 17	21 51	1 21	7 44 17 2	5 11 42	11 34	4 20	13 6	1 36
T 12			-		0n30		11 33		10 10	1 17	3 47		18 51		21 51	1 21	7 44 17 2	-		4 18	-	1 36
W13					1 2		11 41		10 13	1 17	3 48				21 51	1 21	7 45 17 2	-		4 16	-	1 36
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F 15 S 16	-		3 6 4		2 5		11 58		10 18	1 18	3 52		18 51		21 52	1 21	7 46 17 2			4 13		1 36
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S 17	12 21		39 5 19		3 8		12 15		10 24	1 18	3 55		18 52		21 52	1 21	7 48 17 2	-			13 9	1 36
M18	12 0	5 15 2	0 4 3		3 39		12 24		10 27	1 18	3 57		18 52		21 52	1 22	7 49 17 2				13 9	1 36
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T 21	11 18 10 56	4n23 4 8 49 4	-		4 41 5 12		12 42 12 51		10 33 10 36	1 18 1 18	4 0 4 2		18 52 18 52		21 52 21 52	1 22 1 22	7 50 17 3 7 51 17 3	-			13 11 13 11	1 36 1 36
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S 23		15 39 5			6 14		13 8		10 42	1 18	4 6		18 52		21 52	1 22	7 52 17 3				13 12	1 36
S 24	9 51	17 45 5	3 1 2	1 2 18	6 45	0 17	13 17	4 23	10 45	1 19	4 8	2 23	18 52	0 17	21 52	1 22	7 53 17 3	2 11 44	11 49	3 55	13 13	1 36
M25	9 29		-	2 32	7 15		13 25		10 48	1 19	4 9	2 23	18 52	0 17	21 52	1 22	7 54 17 3				13 14	1 36
T 26	9 7			-	7 46		13 33		10 51	1 19	4 11		18 53		21 52	1 22	7 55 17 3	-			13 14	1 36
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T 28	-	16 34 2	1 0 3:		8 46		13 50		10 57	1 19	4 15		18 53		21 52	1 22	7 56 17 3	-			13 16	1 36
F 29	7 s59	14n12 0s	57 0s3:	3n19	9n16	0n38	13n58	4n19	11n 0	1n19	4n17	2n23	18 s53	0n17	21 s52	1n22	7n57 17n3	4 11n42	11n54	3n46	13n16	1 s36

 $\label{eq:Julian Day Number = 2444270.5, Delta\ T=50.61\ sec} \\ Ecliptic\ obliquity = 23°26'23, Nutation = -0°00'07, out-of-bounds\ declination\ in\ red \\$ 

Ayanamsha: Fagan/Bradley = 24°27'44, Lahiri = 23°34'44

MARCH 1980 00:00 UT

		-														
Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)Å(	并	Р	ß	Ω	Ç	ę,	Day
S 1	10 35 48	10 <b>)</b> 33'44	1 Mp 3	20°R17	23 <b>Y</b> 25	3°R54	4°R36	24°R40	25°R34	22 <b>×</b> 31	21°R24	29°R20	28 <b>Ω</b> 43	26M) 5	9 <b>8</b> 59	S 1
S 2	10 39 45	11°33'55	12°55	19 <b>)</b> 37	24°34	3 <b>m</b> 31	4 Mp 28	24 Mp 36	25 <b>M</b> 34	22°32	21 <b>≏</b> 23	29№20	28°40	26°12	10° 1	S 2
M 3	10 43 41	12°34'04	24°45	18°51	25°42	3° 8	4°21	24°31	25°34	22°33	21°22	29°19	28°37	26°18	10° 4	M 3
T 4	10 47 38	13°34'11	6 <b>≏</b> 34	17°59	26°51	2°45	4°13	24°26	25°34	22°33	21°21	29°17	28°34	26°25	10° 6	T 4
W 5	10 51 34	14°34'17	18°24	17° 2	27°59	2°22	4° 5	24°22	25°34	22°34	21°20	29°15	28°30	26°32	10° 9	W 5
T 6	10 55 31	15°34'21	0 <b>M</b> _19	16° 3	29° 7	2° 0	3°58	24°17	25°33	22°35	21°18	29°12	28°27	26°38	10°11	T 6
F 7	10 59 27	16°34'23	12°20	15° 2	0814	1°39	3°50	24°12	25°33	22°35	21°17	29° 9	28°24	26°45	10°14	F 7
S 8	11 3 24	17°34'23	24°31	14° 1	1°22	1°17	3°42	24° 8	25°33	22°36	21°16	29° 7	28°21	26°52	10°16	S 8
S 9	11 721	18°34'22	6 <b>₹</b> 57	13° 2	2°29	0°57	3°35	24° 3	25°32	22°36	21°14	29° 6	28°18	26°58	10°19	S 9
M10	11 11 17	19°34'20	1 <u>9</u> °40	12° 5	3°36	0°36	3°28	23°58	25°32	22°37	21°13	29°D 5	28°15	27° 5	10°22	M10
T 11	11 15 14	20°34'15	2 <b>궁</b> 44	11°11	4°43	0°17	3°20	23°54	25°31	22°37	21°12	29° 6	28°11	27°12	10°25	T 11
W12	11 19 10	21°34'10	16°13	10°23	5°50	29 <b>Ω</b> 57	3°13	23°49	25°31	22°38	21°10	29° 7	28° 8	27°18	10°27	W12
T 13	11 23 7	22°34'02	0≈ 9	9°39	6°57	29°39	3° 6	23°44	25°30	22°38	21° 9	29° 9	28° 5	27°25	10°30	T 13
F 14	11 27 3	23°33'53	14°31	9° 1	8° 3	29°21	2°59	23°39	25°29	22°39	21° 7	29°10	28° 2	27°32	10°33	F 14
S 15	11 31 0	24°33'42	29°16	8°29	9° 9	29° 4	2°52	23°35	25°28	22°39	21° 6	29°R10	27°59	27°38	10°36	S 15
S 16	11 34 56	25°33'29	14 <b>)</b> (20	8° 4	10°15	28°47	2°45	23°30	25°28	22°39	21° 5	29°10	27°55	27°45	10°39	S 16
M17	11 38 53	26°33'14	29°34	7°45	11°21	28°31	2°39	23°25	25°27	22°40	21° 3	29° 8	27°52	27°52	10°42	M17
T 18	11 42 50	27°32'57	14 <b>Y</b> 48	7°32	12°26	28°16	2°32	23°20	25°26	22°40	21° 2	29° 4	27°49	27°58	10°45	T 18
W19	11 46 46	28°32'38	29°52	7°25	13°31	28° 1	2°26	23°16	25°25	22°40	21° 0	29° 0	27°46	28° 5	10°48	W19
T 20	11 50 43	29°32'16	14837	7°D25	14°36	27°47	2°19	23°11	25°24	22°40	20°58	28°56	27°43	28°11	10°51	T 20
F 21	11 54 39	0 <b>Υ</b> 31'53	28°57	7°30	15°40	27°34	2°13	23° 6	25°23	22°40	20°57	28°52	27°40	28°18	10°54	F 21
S 22	11 58 36	1°31'27	12 <b>∏</b> 49	7°41	16°45	27°22	2° 7	23° 2	25°22	22°40	20°55	28°49	27°36	28°25	10°58	S 22
S 23	12 2 32	2°30'59	26°13	7°58	17°49	27°11	2° 1	22°57	25°21	22°41	20°54	28°48	27°33	28°31	11° 1	S 23
M24	12 6 29	3°30'29	99511	8°19	18°52	27° 0	1°55	22°52	25°19	22°41	20°52	28°D48	27°30	28°38	11° 4	M24
T 25	12 10 25	4°29'57	21°47	8°45	19°56	26°50	1°49	22°48	25°18	22°R41	20°51	28°49	27°27	28°45	11° 7	T 25
W26	12 14 22	5°29'22	4 <b>Ω</b> 5	9°16	20°59	26°41	1°44	22°43	25°17	22°41	20°49	28°50	27°24	28°51	11°11	W26
T 27	12 18 19	6°28'44	16°10	9°51	22° 2	26°33	1°38	22°39	25°16	22°40	20°47	28°52	27°21	28°58	11°14	T 27
F 28	12 22 15	7°28'05	28° 5	10°30	23° 4	26°25	1°33	22°34	25°14	22°40	20°46	28°R53	27°17	29° 5	11°17	F 28
S 29	12 26 12	8°27'23	9 <b>m</b> 56	11°13	24° 6	26°18	1°28	22°30	25°13	22°40	20°44	28°52	27°14	29°11	11°21	S 29
S 30	12 30 8	9°26'39	21°44	11°59	25° 8	26°13	1°23	22°25	25°11	22°40	20°43	28°49	27°11	29°18	11°24	S 30
M31	12 34 5	10 <b>Y</b> 25'53	3 <b>₾</b> 32	12 <b>) (</b> 49	26 <b>8</b> 9	26 <b>N</b> 7	1 <b>m</b> ) 18	22 Mp 21	25 <b>M</b> 10	22 <b>×</b> <sup>7</sup> 40	20 <b>≏</b> 41	28 <b>Ω</b> 45	27 <b>N</b> 8	29 <b>m</b> 25	11828	M31

Day	0	D	ğ	·	ð	4	ħ	)Å(	卉	Р	& U	Ç	, k
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
S 1	7 s36	11n15 On10	0 s40 3n2	9n45 0n42	14n 5 4n19	11n 3 1n19	4n19 2n23	18 s53 0n17	21 s52 1n22	7n58 17n34	11n42 11n55	3n44	13n17 1s36
S 2	7 14	7 51 1 15	0 50 3 3	34 10 15 0 47	14 13 4 18	11 6 1 19	4 21 2 24	18 53 0 17	21 52 1 22	7 59 17 35	11 42 11 56	3 42	13 18 1 36
M 3	6 51	4 10 2 16							21 52 1 22		11 43 11 57		13 19 1 36
T 4 W 5	6 28	0 20 3 12	_			11 12 1 19	4 25 2 24		21 52 1 22		11 43 11 59		13 19 1 36
T 6	6 4 5 41	3 s 3 1 4 0 7 15 4 37	1 43 3 4			11 14 1 19 11 17 1 19	4 26 2 24 4 28 2 24		21 52 1 22 21 52 1 22		11 44 12 0 11 45 12 1		13 20 1 36 13 21 1 36
F 7	5 18						-		21 52 1 22		11 46 12 2		13 22 1 36
S 8	4 55	13 48 5 15				11 23 1 19			21 52 1 22		11 47 12 3		13 23 1 36
S 9	4 31	16 20 5 13	3 33 3 2	22 13 34 1 18	15 0 4 8	11 25 1 19	4 34 2 24	18 52 0 17	21 52 1 22	8 4 17 37	11 47 12 4	3 28	13 23 1 36
M10	4 8	18 7 4 56	4 4 3	13 14 1 1 23	15 5 4 6	11 28 1 19	4 36 2 24	18 52 0 17	21 52 1 22	8 5 17 38	11 47 12 5	3 27	13 24 1 36
T 11	3 44	-			-	11 31 1 19			21 52 1 22		11 47 12 6		
W12	-	18 54 3 35				11 33 1 19			21 52 1 22		11 47 12 7		13 26 1 36
T 13 F 14	2 57 2 33					11 36 1 19 11 38 1 19			21 52 1 22 21 52 1 22		11 46 12 8 11 46 12 10		13 27 1 36 13 28 1 36
S 15		13 12 1 20 11 44 0s 1	6 24 2			11 41 1 19			21 52 1 22		11 46 12 10		13 29 1 36
S 16	1 46	7 26 1 23	6 47 1 5	54 16 38 1 50		11 43 1 19	4 48 2 25	18 51 0 17	21 52 1 23	8 10 17 39	11 46 12 12	3 15	13 30 1 36
M17	1 22	2 37 2 39				11 46 1 19			21 52 1 23		11 47 12 13		13 31 1 36
T 18	0 58	2n22 3 45	7 26 1 2	24 17 27 1 59	15 40 3 50	11 48 1 19	4 52 2 25	18 51 0 17	21 52 1 23	8 11 17 40	11 48 12 14	3 11	13 31 1 36
W19	0 35								21 52 1 23		11 49 12 15		13 32 1 36
T 20	0 11					11 53 1 19			21 52 1 23		11 51 12 16		13 33 1 36
F 21 S 22		14 50 5 13 17 19 5 4				11 55 1 19			21 52 1 23		11 52 12 17		13 34 1 36
						11 57 1 19			21 52 1 23		11 53 12 18		13 35 1 36
S 23	1 0					11 59 1 19			21 52 1 23		11 54 12 19		13 36 1 36
M24 T 25	1 24 1 47				15 53 3 36 15 54 3 33		5 3 2 25 5 5 2 25		21 51 1 23 21 51 1 23		11 54 12 20 11 53 12 22		13 37 1 36 13 38 1 36
W26	2 11	18 34 3 9			15 55 3 31	12 5 1 19	5 6 2 25		21 51 1 23		11 53 12 22		13 38 1 36
T 27	2 34				15 56 3 28				21 51 1 23		11 52 12 24		13 40 1 36
F 28	2 58				15 56 3 26				21 51 1 23		11 52 12 25		13 41 1 36
S 29	3 21	8 46 1n 0	8 16 0 3	59 21 30 2 48	15 56 3 23	12 10 1 18	5 12 2 25	18 47 0 17	21 51 1 23	8 19 17 42	11 52 12 26	2 49	13 42 1 37
S 30	3 45					12 12 1 18			21 51 1 23		11 53 12 27		13 43 1 37
M31	4n 8	1n18 2n57	7 s 58 1 s	19 22n 8 2n56	15n55 3n18	12n14 1n18	5n15 2n25	18 s47 0n17	21 s51 1n23	8n21 17n42	11n55 12n28	2n46	13n44 1 s37

Julian Day Number = 2444299.5, Delta T = 50.68 sec Ecliptic obliquity =  $23^{\circ}26'23$ , Nutation = - $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}27'48$ , Lahiri =  $23^{\circ}34'48$ 

APRIL 1980 00:00 UT

Day	Sid.t	0	D	ğ	P	ð	4	ħ	)Å(	卉	Р	n	v	Ç	ķ	Day
T 1	12 38 1	11 <b>Y</b> 25'05	15 <b>≏</b> 24	13 <b>) (</b> 42	27810	26°R 3	1°R14	22°R16	25°R 8	22°R40	20°R39	28°R38	27 <b>Ω</b> 5	29 <b>m</b> <sub>31</sub>	11831	T 1
W 2	12 41 58	12°24'15	27°20	14°38	28°11	25 <b>Ω</b> 59	1MD 9	22 <b>m</b> 12	25 <b>M</b> 7	22 <b>×</b> 39	20 <b>≏</b> 38	28€31	27° 1	29°38	11°35	W 2
T 3	12 45 54	13°23'23	9 <b>M</b> 21	15°37	29°11	25°56	1° 5	22° 8	25° 5	22°39	20°36	28°22	26°58	29°45	11°38	T 3
F 4	12 49 51	14°22'29	21°31	16°39	0 <b>Ⅱ</b> 11	25°54	1° 1	22° 4	25° 3	22°39	20°34	28°14	26°55	29°51	11°42	F 4
S 5	12 53 47	15°21'33	3 <b>₹</b> 50	17°43	1°10	25°53	0°57	21°59	25° 2	22°38	20°33	28° 6	26°52	29°58	11°45	S 5
S 6	12 57 44	16°20'35	16°20	18°50	2° 9	25°D52	0°53	21°55	25° 0	22°38	20°31	28° 0	26°49	0 <b>₾</b> 5	11°49	S 6
M 7	13 141	17°19'36	29° 5	19°59	3° 7	25°52	0°49	21°51	24°58	22°38	20°29	27°56	26°46	0°11	11°53	M 7
T 8	13 5 37	18°18'34	12 <b>る</b> 7	21°11	4° 5	25°53	0°46	21°47	24°56	22°37	20°27	27°55	26°42	0°18	11°56	T 8
W 9	13 9 34	19°17'31	25°28	22°25	5° 3	25°55	0°42	21°43	24°54	22°37	20°26	27°D55	26°39	0°25	12° 0	W 9
T 10	13 13 30	20°16'27	9≈12	23°40	6° 0	25°57	0°39	21°39	24°53	22°36	20°24	27°55	26°36	0°31	12° 4	T 10
F 11	13 17 27	21°15'20	23°20	24°58	6°56	26° 0	0°36	21°36	24°51	22°36	20°22	27°R56	26°33	0°38	12° 7	F 11
S 12	13 21 23	22°14'12	7 <b>∺</b> 50	26°18	7°52	26° 4	0°34	21°32	24°49	22°35	20°21	27°56	26°30	0°45	12°11	S 12
S 13	13 25 20	23°13'02	22°41	27°40	8°48	26° 8	0°31	21°28	24°47	22°35	20°19	27°54	26°26	0°51	12°15	S 13
M14	13 29 16	24°11'50	7 <b>Y</b> 46	29° 3	9°42	26°13	0°29	21°24	24°45	22°34	20°17	27°49	26°23	0°58	12°18	M14
T 15	13 33 13	25°10'36	22°57	0 <b>Υ</b> 29	10°37	26°19	0°26	21°21	24°43	22°33	20°16	27°42	26°20	1° 5	12°22	T 15
W16	13 37 10	26° 9'21	8 <b>8</b> 3	1°56	11°30	26°25	0°24	21°17	24°41	22°33	20°14	27°33	26°17	1°11	12°26	W16
T 17	13 41 6	27° 8'03	22°54	3°25	12°24	26°32	0°23	21°14	24°38	22°32	20°12	27°24	26°14	1°18	12°30	T 17
F 18	13 45 3	28° 6'43	7 <b>Ⅲ</b> 23	4°56	13°16	26°40	0°21	21°11	24°36	22°31	20°11	27°15	26°11	1°25	12°34	F 18
S 19	13 48 59	29° 5'22	21°23	6°28	14° 8	26°48	0°19	21° 7	24°34	22°30	20° 9	27° 8	26° 7	1°32	12°37	S 19
S 20	13 52 56	0 <b>8</b> 3'58	4954	8° 3	14°59	26°57	0°18	21° 4	24°32	22°29	20° 7	27° 3	26° 4	1°38	12°41	S 20
M21	13 56 52	1° 2'31	17°57	9°39	15°49	27° 6	0°17	21° 1	24°30	22°29	20° 6	27° 0	26° 1	1°45	12°45	M21
T 22	14 0 49	2° 1'03	0 <b>Ω</b> 35	11°16	16°39	27°16	0°16	20°58	24°28	22°28	20° 4	27°D 0	25°58	1°52	12°49	T 22
W23	14 4 45	2°59'32	12°53	12°56	17°27	27°27	0°16	20°55	24°25	22°27	20° 2	27° 0	25°55	1°58	12°53	W23
T 24	14 8 42	3°58'00	24°56	14°37	18°15	27°38	0°15	20°52	24°23	22°26	20° 1	27°R 0	25°52	2° 5	12°57	T 24
F 25	14 12 39	4°56'25	6 <b>m</b> 49	16°19	19° 3	27°50	0°15	20°50	24°21	22°25	19°59	27° 0	25°48	2°12	13° 1	F 25
S 26	14 16 35	5°54'48	18°37	18° 4	19°49	28° 2	0°D14	20°47	24°18	22°24	19°57	26°58	25°45	2°18	13° 5	S 26
S 27	14 20 32	6°53'08	0 <b>ჲ</b> 25	19°50	20°34	28°15	0°14	20°45	24°16	22°23	19°56	26°53	25°42	2°25	13° 8	S 27
M28	14 24 28	7°51'27	12°16	21°38	21°19	28°28	0°15	20°42	24°14	22°22	19°54	26°46	25°39	2°32	13°12	M28
T 29	14 28 25	8°49'44	24°12	23°28	22° 2	28°42	0°15	20°40	24°11	22°21	19°53	26°36	25°36	2°38	13°16	T 29
W30	14 32 21	9 <b>8</b> 48'00	6 <b>M</b> .16	25 <b>Υ</b> 19	22 <b>∏</b> 44	$28\Omega56$	0 <b>M</b> p16	20 <b>m</b> 37	24M 9	22 <b>×</b> 20	19 <b>≏</b> 51	26 <b>Ω</b> 24	25 <b>Ω</b> 32	2 <b>≏</b> 45	13820	W30

Day	0	D	φ	Q.	ð	4	ħ	)Å(	<del>¥</del>	Р	w v	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
T 1	4n31	2 s 3 6 3 n 4 5	7 s 4 6 1 s 2	28 22n27 3n 0	15n54 3n16	12n15 1n18	5n17 2n25	18 s46 0n17	21 s51 1n23	8n22 17n42	11n57 12n29	2n44	13n45 1 s37
W 2	4 54	6 25 4 24	7 32 1 3	36 22 45 3 4	15 53 3 13	12 17 1 18	5 19 2 25	18 46 0 17	21 51 1 23	8 22 17 43	12 0 12 30	2 42	13 46 1 37
T 3	5 17	10 0 4 51	7 16 1 4	14 23 2 3 8	15 52 3 11	12 18 1 18	5 20 2 25	18 45 0 17	21 51 1 23	8 23 17 43	12 3 12 31	2 40	13 47 1 37
F 4	5 40	13 13 5 6	6 59 1 5	51 23 19 3 12	15 50 3 8	12 19 1 18	5 22 2 25	18 45 0 17	21 51 1 23	8 24 17 43	12 5 12 32	2 38	13 49 1 37
S 5	6 3	15 54 5 6	6 40 1 5	58 23 35 3 16	15 48 3 6	12 21 1 17	5 23 2 25	18 45 0 17	21 51 1 23	8 24 17 43	12 8 12 34	2 36	13 50 1 37
S 6	6 26	17 53 4 52	6 20 2	5 23 51 3 19	15 46 3 3	12 22 1 17	5 25 2 24	18 44 0 17	21 51 1 23	8 25 17 43	12 10 12 35	2 34	13 51 1 37
M 7	6 48	19 2 4 24	5 58 2 1	10 24 6 3 23	15 44 3 1	12 23 1 17	5 27 2 24	18 44 0 17	21 51 1 23	8 26 17 43	12 11 12 36	2 32	13 52 1 37
T 8	7 11	19 13 3 41	5 34 2 1	15 24 21 3 27	15 41 2 58	12 24 1 17	5 28 2 24	18 43 0 17	21 51 1 23	8 26 17 43	12 12 12 37	2 30	13 53 1 37
W 9	7 33	18 20 2 46	5 9 2 2	20 24 35 3 30	15 38 2 56	12 25 1 17	5 30 2 24	18 43 0 17	21 51 1 23	8 27 17 43	12 12 12 38	2 28	13 54 1 37
T 10	7 55	16 22 1 39	4 43 2 2	24 24 49 3 34	15 35 2 53	12 26 1 17	5 31 2 24	18 42 0 17	21 51 1 24	8 28 17 43	12 12 12 39	2 26	13 55 1 37
F 11	8 17	13 21 0 25	4 15 2 2	28 25 2 3 37	15 32 2 51	12 27 1 17	5 32 2 24	18 42 0 17	21 51 1 24	8 28 17 43	12 11 12 40	2 24	13 56 1 37
S 12	8 39	9 27 0s53	3 46 2 3	31 25 15 3 40	15 28 2 48	12 28 1 17	5 34 2 24	18 42 0 17	21 50 1 24	8 29 17 43	12 12 12 41	2 22	13 57 1 37
S 13	9 1	4 52 2 9	3 16 2 3	33 25 27 3 44	15 25 2 46	12 29 1 16	5 35 2 24	18 41 0 17	21 50 1 24	8 29 17 43	12 12 12 42	2 20	13 58 1 37
M14	9 23	0n 4 3 17	2 45 2 3	35 25 38 3 47	15 21 2 44		5 37 2 24	18 41 0 17	21 50 1 24	8 30 17 43	12 14 12 43	2 18	13 59 1 37
T 15	9 45	5 2 4 11	2 12 2 3	36 25 49 3 50	15 16 2 41	12 30 1 16	5 38 2 24	18 40 0 17	21 50 1 24	8 31 17 43	12 16 12 44	2 16	14 0 1 37
W16	10 6	9 39 4 48	1 38 2 3	37 <mark>26 0</mark> 3 52		12 31 1 16	5 39 2 24	18 40 0 17	21 50 1 24		12 19 12 45	2 14	
T 17	10 27	13 36 5 4	1 3 2 3	38 <mark>26 10</mark> 3 55	15 7 2 37	12 31 1 16	5 40 2 23	18 39 0 17	21 50 1 24	8 32 17 43	12 22 12 46	2 12	14 3 1 37
F 18	10 48	16 36 5 0	0 27 2 3	37 <mark>26 19</mark> 3 58	15 3 2 34	12 32 1 16	5 42 2 23	18 39 0 17	21 50 1 24	8 32 17 43	12 25 12 48	2 10	14 4 1 37
S 19	11 9	18 32 4 38	0n10 2 3	37 26 28 4 0	14 58 2 32	12 32 1 16	5 43 2 23	18 38 0 17	21 50 1 24	8 33 17 43	12 28 12 49	2 8	14 5 1 37
S 20	11 30	19 20 4 1				12 32 1 15	5 44 2 23	18 37 0 17	21 50 1 24	8 33 17 43	12 30 12 50	-	14 6 1 37
M21			1 28 2 3			12 33 1 15	5 45 2 23	18 37 0 17	21 50 1 24	8 34 17 42	12 31 12 51	2 4	14 7 1 37
T 22	-		-		14 41 2 25				21 50 1 24		12 31 12 52		14 8 1 38
W23	12 31	15 45 1 15	2 49 2 2	29 26 59 4 9		12 33 1 15	5 47 2 23	18 36 0 17	21 50 1 24		12 31 12 53	-	
T 24	12 50	13 2 0 11	3 32 2 2						21 50 1 24		12 31 12 54		14 10 1 38
F 25	13 10					12 33 1 15			21 49 1 24		12 31 12 55		14 11 1 38
S 26	13 30	6 14 1 52	4 58 2 1	17 27 16 4 14	14 17 2 16	12 33 1 14	5 50 2 22	18 34 0 17	21 49 1 24	8 36 17 42	12 32 12 56	1 54	14 13 1 38
S 27	13 49	2 24 2 48				12 33 1 14			21 49 1 24		12 33 12 57	-	14 14 1 38
M28	14 8	1 s32 3 36				12 33 1 14			21 49 1 24		12 36 12 58		14 15 1 38
T 29	14 27	5 26 4 15				12 32 1 14			21 49 1 24		12 39 12 59	-	14 16 1 38
W30	14n45	9s 9 4n43	8n 1 1s5	54 27n32 4n18	13n50 2n 8	12n32 1n14	5n53 2n22	18 s32 0n17	21 s49 1n24	8n38 17n41	12n43 13n 0	1n46	14n17 1 s38
	14 27	5 26 4 15	7 14 2	1 27 28 4 17	13 57 2 10	12 32 1 14	5 52 2 22	18 32 0 17	21 49 1 24	8 37 17 41	12 39 12 59	1 48	14

Julian Day Number = 2444330.5, Delta T = 50.76 sec Ecliptic obliquity =  $23^{\circ}26'24$ , Nutation =  $-0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}27'52$ , Lahiri =  $23^{\circ}34'52$ 

MAY 1980 00:00 UT

1.174 1	1700														00.0	0.
Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)મ(	并	Р	₽.	v	Ç	ķ	Day
T 1	14 36 18	10846'13	18 <b>M</b> .29	27 <b>Υ</b> 12	23Ⅱ26	29Ω11	0 <b>m</b> 16	20°R35	24°R 6	22°R19	19°R50	26°R11	25 <b>Ω</b> 29	2 <b>≏</b> 52	13824	T 1
F 2	14 40 14	11°44'25	0 <b>∡</b> 751	29° 7	24° 6	29°26	0°17	20 <b>m</b> 33	24M 4	22 <b>×</b> 18	19 <b>≏</b> 48	25 <b>Ω</b> 58	25°26	2°58	13°28	F 2
S 3	14 44 11	12°42'35	13°24	18 4	24°45	29°42	0°19	20°31	24° 2	22°17	19°47	25°46	25°23	3° 5	13°32	S 3
S 4	14 48 7	13°40'43	26° 8	3° 2	25°23	29°58	0°20	20°29	23°59	22°15	19°45	25°37	25°20	3°12	13°36	S 4
M 5	14 52 4	14°38'50	9 <b>궁</b> 3	5° 2	26° 0	0 Mp 15	0°21	20°27	23°57	22°14	19°44	25°30	25°17	3°18	13°40	M 5
T 6	14 56 1	15°36'56	22°11	7° 4	26°35	0°32	0°23	20°26	23°54	22°13	19°42	25°26	25°13	3°25	13°44	T 6
W 7	14 59 57	16°35'00	5≈35	9° 7	27° 9	0°50	0°25	20°24	23°52	22°12	19°41	25°24	25°10	3°32	13°48	W 7
T 8	15 3 54	17°33'03	19°14	11°12	27°42	1° 7	0°27	20°22	23°49	22°11	19°39	25°24	25° 7	3°38	13°52	T 8
F 9	15 7 50	18°31'04	3 <b>)</b> 12	13°18	28°13	1°26	0°29	20°21	23°47	22° 9	19°38	25°24	25° 4	3°45	13°55	F 9
S 10	15 11 47	19°29'04	17°27	15°25	28°43	1°45	0°31	20°20	23°44	22° 8	19°36	25°23	25° 1	3°52	13°59	S 10
S 11	15 15 43	20°27'03	1 <b>Y</b> 59	17°34	29°11	2° 4	0°34	20°18	23°42	22° 7	19°35	25°19	24°57	3°58	14° 3	S 11
M12	15 19 40	21°25'00	16°45	19°43	29°38	2°23	0°37	20°17	23°39	22° 5	19°33	25°13	24°54	4° 5	14° 7	M12
T 13	15 23 36	22°22'57	1 <b>8</b> 37	21°54	099 3	2°43	0°40	20°16	23°37	22° 4	19°32	25° 5	24°51	4°12	14°11	T 13
W14	15 27 33	23°20'51	16°27	24° 4	0°27	3° 3	0°43	20°15	23°34	22° 3	19°31	24°54	24°48	4°18	14°15	W14
T 15	15 31 30	24°18'45	1 <b>I</b> 8	26°16	0°48	3°24	0°46	20°15	23°32	22° 1	19°29	24°43	24°45	4°25	14°19	T 15
F 16	15 35 26	25°16'36	15°31	28°27	1° 8	3°45	0°49	20°14	23°29	22° 0	19°28	24°31	24°42	4°32	14°23	F 16
S 17	15 39 23	26°14'27	29°30	0 <b>Ⅱ</b> 38	1°26	4° 6	0°53	20°13	23°27	21°59	19°27	24°22	24°38	4°38	14°27	S 17
S 18	15 43 19	27°12'16	1395 3	2°48	1°42	4°28	0°57	20°13	23°24	21°57	19°26	24°15	24°35	4°45	14°31	S 18
M19	15 47 16	28°10'03	26° 8	4°57	1°56	4°50	1° 1	20°12	23°22	21°56	19°24	24°10	24°32	4°52	14°34	M19
T 20	15 51 12	29° 7'48	8 <b>Ω</b> 49	7° 6	2° 8	5°13	1° 5	20°12	23°19	21°54	19°23	24° 8	24°29	4°58	14°38	T 20
W21	15 55 9	0耳 5'32	21° 9	9°13	2°18	5°35	1° 9	20°12	23°17	21°53	19°22	24° 8	24°26	5° 5	14°42	W21
T 22	15 59 6	1° 3'14	3 <b>m</b> ) 14	11°18	2°26	5°58	1°13	20°D12	23°14	21°51	19°21	24° 8	24°23	5°12	14°46	T 22
F 23	16 3 2	2° 0'54	15° 8	13°22	2°31	6°22	1°18	20°12	23°12	21°50	19°20	24° 7	24°19	5°18	14°50	F 23
S 24	16 6 59	2°58'33	26°57	15°24	2°34	6°45	1°23	20°12	23° 9	21°48	19°19	24° 5	24°16	5°25	14°53	S 24
S 25	16 10 55	3°56'11	8 <b>≙</b> 47	17°23	2°R35	7° 9	1°27	20°12	23° 7	21°47	19°18	24° 1	24°13	5°32	14°57	S 25
M26	16 14 52	4°53'47	20°41	19°20	2°34	7°33	1°32	20°12	23° 4	21°45	19°17	23°54	24°10	5°38	15° 1	M26
T 27	16 18 48	5°51'22	2 <b>M</b> .43	21°15	2°30	7°58	1°38	20°13	23° 2	21°44	19°15	23°44	24° 7	5°45	15° 5	T 27
W28	16 22 45	6°48'55	14°56	23° 7	2°23	8°23	1°43	20°13	22°59	21°42	19°14	23°33	24° 3	5°52	15° 8	W28
T 29	16 26 41	7°46'27	27°21	24°56	2°14	8°48	1°48	20°14	22°57	21°41	19°14	23°20	24° 0	5°59	15°12	T 29
F 30	16 30 38	8°43'58	9 <b>∡</b> 759	26°43	2° 3	9°13	1°54	20°15	22°55	21°39	19°13	23° 8	23°57	6° 5	15°16	F 30
S 31	16 34 34	9 <b>∏</b> 41'28	22 <b>×</b> <sup>7</sup> 49	28Ⅲ27	19549	9 <b>m</b> 39	2 MD 0	20 <b>m</b> 15	22M52	21 <b>~</b> 38	19 <b>≏</b> 12	22 <b>N</b> 57	23 <b>£</b> 54	6 <b>₽</b> 12	15 <b>8</b> 20	S 31

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	decl	decl lat	decl	lat decl l	at decl	lat	decl la	nt	decl	lat	decl	lat	decl lat	d	ecl lat	decl	decl	decl	decl lat
T 1 F 2 S 3	15n 3 15 21 15 39	15 26 5 0	9 36	1 40 27 37	4n18 13n43 4 18 13 36 4 18 13 29	2 4	12 31	1n14 1 14 1 13	5n54 5 55 5 55	2 21	18 s31 18 31 18 30	0 17	21 49 1	24 8	138 17n41 38 17 41 39 17 40	12 52	13 3	1 42	14n18 1 s38 14 19 1 38 14 20 1 38
S 4 M 5 T 6 W 7 T 8	15 57 16 14	19 3 4 20 19 29 3 39 18 53 2 46 17 13 1 43	11 12	1 24 27 40 1 16 27 40 1 7 27 41 0 57 27 41	4 18 13 21 4 18 13 13 4 17 13 5 4 16 12 57 4 15 12 49	2 0 1 58 1 56 1 54	12 30 12 29 12 28 12 28	1 13 1 13 1 13 1 13 1 13	5 56 5 56 5 57 5 58 5 58	2 21 2 21 2 21 2 21 2 21	18 29 18 29 18 28	0 17 0 17 0 17 0 17	21 49 1 21 49 1 21 49 1 21 48 1	24 8 24 8 24 8 24 8	39 17 40 39 17 40 40 17 40 40 17 39 40 17 39	12 59 13 1 13 3 13 3		1 38 1 36 1 34 1 32	14 21 1 38 14 22 1 38 14 24 1 38 14 25 1 39 14 26 1 39
F 9 S 10 S 11	17 20 17 36 17 52	6 42 1 54		0 28 27 38	4 14 12 41 4 12 12 32 4 10 12 24	1 50 1 48 1 46	12 25	1 12 1 12 1 12	5 58 5 59 5 59	2 20	18 26 18 26 18 25	0 17	21 48 1	24 8	41 17 39 41 17 39 41 17 38	13 4	13 10 13 11 13 12	1 26	14 27 1 39 14 28 1 39 14 29 1 39
M12 T 13 W14 T 15 F 16 S 17	18 7 18 22 18 37 18 51 19 5	2n57 3 56 7 43 4 36 12 0 4 57 15 31 4 59 18 0 4 41	17 34 18 18 19 1 19 43	0 7 27 34 0n 4 27 31 0 14 27 28 0 25 27 25 0 35 27 21	4 8 12 15 4 5 12 6 4 2 11 57 3 59 11 48 3 55 11 39 3 51 11 29	1 45 1 43 1 41 1 39	12 23 12 21 12 20 12 19 12 18	1 12 1 12 1 12 1 12 1 11 1 11 1 11	5 59 6 0 6 0 6 0 6 0	2 20 2 20 2 19 2 19 2 19 2 19	18 25 18 24 18 23 18 23	0 17 0 17 0 17 0 17 0 17	21 48 1 21 48 1 21 48 1 21 48 1 21 48 1	24 8 24 8 24 8 24 8 24 8	41 17 38 41 17 38 41 17 38 42 17 37 42 17 37 42 17 37 42 17 36	13 7 13 10 13 13 13 17 13 21	13 13 13 14 13 15 13 16 13 17	1 22 1 20 1 18 1 16 1 14	14 30 1 39
S 18 M19 T 20 W21 T 22 F 23 S 24	19 45 19 58	18 35 2 22 16 46 1 20 14 12 0 16 11 4 0n48 7 32 1 49	21 37 22 11 22 42 23 11 23 37 24 1 24 22	1 4 27 7 1 13 27 2 1 22 26 56 1 30 26 50 1 37 26 43	3 46 11 20 3 42 11 10 3 36 11 0 3 31 10 50 3 25 10 40 3 18 10 30 3 11 10 20	1 34 1 32 1 31 1 29 1 27 1 26 1 24	12 13 12 12 12 10 12 8 12 6	1 11 1 11 1 11 1 10 1 10 1 10 1 10	6 0 6 0 6 0 6 0 6 0 6 0 5 59	2 18 2 18 2 18 2 18 2 18 2 18	18 21 18 20 18 20 18 19 18 18 18 18 18 17	0 17 0 17 0 17 0 17 0 17	21 47 1 21 47 1 21 47 1 21 47 1 21 47 1	25 8 25 8 25 8 25 8 25 8	42 17 36 42 17 36 42 17 35 42 17 35 43 17 35 43 17 34 43 17 34	13 28 13 29 13 29 13 29 13 29	13 21 13 22 13 23 13 24 13 25	1 8 1 6 1 4 1 2 1 0	14 36
T 29 F 30	21 36 21 46	4 10 4 13 8 0 4 41 11 34 4 58 14 41 5 0 17 12 4 48	24 40 24 55 25 8 25 19 25 27 25 32 25n36	1 55 26 21 2 0 26 13 2 3 26 4 2 6 25 55	3 4 10 10 2 56 9 59 2 48 9 49 2 39 9 38 2 30 9 27 2 20 9 16 2n10 9n 5	1 23 1 21 1 19 1 18 1 16 1 15 1n13	12 1 11 59 11 57 11 55 11 52	1 10 1 10 1 10 1 9 1 9 1 9 1n 9	5 59 5 59 5 59 5 58 5 58 5 57 5n57	2 17 2 17 2 17 2 17 2 17 2 16	18 17 18 16 18 15 18 15 18 14 18 14 18 13	0 17 0 17 0 17 0 17 0 17	21 47 1 21 46 1 21 46 1 21 46 1 21 46 1	25 8 25 8 25 8 25 8 25 8	43 17 33 43 17 33 43 17 32 43 17 32 42 17 32 42 17 31 42 17n31	13 33 13 37 13 40 13 44 13 48	13 28 13 29 13 30 13 31 13 32	0 54 0 52 0 50 0 47 0 45	14 43 1 40 14 44 1 40 14 45 1 40 14 46 1 41 14 47 1 41 14 48 1 41 14n49 1 s41

Julian Day Number = 2444360.5, Delta T = 50.83 sec Ecliptic obliquity =  $23^{\circ}26'23$ , Nutation =  $-0^{\circ}00'11$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}27'56$ , Lahiri =  $23^{\circ}34'56$ 

JUNE 1980 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	<del>九</del>	Р	n	Ω	Ç	o k	Day
S 1	16 38 31	10 <b>Ⅲ</b> 38'57	5 <b>云</b> 52	0න 8	1°R33	10 <b>m</b> 5	2 m 6	20 <b>m</b> 16	22°R50	21°R36	19°R11	22°R47	23€51	6 <b>₽</b> 19	15823	S 1
M 2	16 42 28	11°36'25	19° 7	1°46	19915	10°31	2°12	20°17	22 <b>M</b> 47	21 <b>×</b> 34	19 <b>≏</b> 10	22 <b>Ω</b> 41	23°48	6°25	15°27	M 2
T 3	16 46 24	12°33'53	2≈32	3°22	0°54	10°57	2°18	20°18	22°45	21°33	19° 9	22°37	23°44	6°32	15°30	T 3
W 4	16 50 21	13°31'19	16° 8	4°54	0°31	11°24	2°24	20°20	22°43	21°31	19°8	22°35	23°41	6°39	15°34	W 4
T 5	16 54 17	14°28'45	29°54	6°24	0° 6	11°51	2°31	20°21	22°41	21°30	19° 7	22°D35	23°38	6°45	15°38	T 5
F 6	16 58 14	15°26'10	13 <b>米</b> 52	7°50	29∏39	12°18	2°37	20°22	22°38	21°28	19° 7	22°R36	23°35	6°52	15°41	F 6
S 7	17 2 10	16°23'34	27°59	9°14	29°10	12°45	2°44	20°24	22°36	21°26	19° 6	22°35	23°32	6°59	15°45	S 7
S 8	17 6 7	17°20'58	12 <b>Y</b> 17	10°35	28°40	13°12	2°51	20°26	22°34	21°25	19° 5	22°33	23°29	7° 5	15°48	S 8
M 9	17 10 3	18°18'22	26°42	11°52	28° 7	13°40	2°58	20°27	22°32	21°23	19° 5	22°28	23°25	7°12	15°52	M 9
T 10	17 14 0	19°15'45	118 9	13° 7	27°34	14° 8	3° 5	20°29	22°29	21°22	19° 4	22°21	23°22	7°19	15°55	T 10
W11	17 17 57	20°13'07	25°35	14°18	26°59	14°36	3°12	20°31	22°27	21°20	19° 3	22°13	23°19	7°25	15°59	W11
T 12	17 21 53	21°10'29	9 <b>Ⅱ</b> 53	15°26	26°23	15° 5	3°20	20°33	22°25	21°18	19° 3	22° 3	23°16	7°32	16° 2	T 12
F 13	17 25 50	22° 7'50	23°57	16°31	25°47	15°33	3°27	20°35	22°23	21°17	19° 2	21°54	23°13	7°39	16° 5	F 13
S 14	17 29 46	23° 5'11	79542	17°32	25° 9	16° 2	3°35	20°37	22°21	21°15	19° 2	21°46	23° 9	7°45	16° 9	S 14
S 15	17 33 43	24° 2'30	21° 5	18°30	24°32	16°31	3°43	20°40	22°19	21°13	19° 1	21°40	23° 6	7°52	16°12	S 15
M16	17 37 39	24°59'49	4 <b>Q</b> 6	19°24	23°54	17° 1	3°51	20°42	22°17	21°12	19° 1	21°36	23° 3	7°59	16°15	M16
T 17	17 41 36	25°57'07	16°45	20°15	23°17	17°30	3°59	20°45	22°15	21°10	19° 0	21°D35	23° 0	8° 6	16°18	T 17
W18	17 45 33	26°54'25	29° 6	21° 2	22°40	18° 0	4° 7	20°47	22°13	21° 9	19° 0	21°35	22°57	8°12	16°22	W18
T 19	17 49 29	27°51'41	11 <b>m</b> p 11	21°46	22° 4	18°29	4°15	20°50	22°11	21° 7	19° 0	21°36	22°54	8°19	16°25	T 19
F 20	17 53 26	28°48'57	23° 7	22°25	21°28	19° 0	4°23	20°53	22° 9	21° 5	18°59	21°R37	22°50	8°26	16°28	F 20
S 21	17 57 22	29°46'12	4 <b>º</b> 58	23° 0	20°54	19°30	4°32	20°56	22° 8	21° 4	18°59	21°36	22°47	8°32	16°31	S 21
S 22	18 1 19	09543'27	16°50	23°32	20°20	20° 0	4°41	20°59	22° 6	21° 2	18°59	21°35	22°44	8°39	16°34	S 22
M23	18 5 15	1°40'40	28°47	23°59	19°49	20°31	4°49	21° 2	22° 4	21° 1	18°59	21°31	22°41	8°46	16°37	M23
T 24	18 9 12	2°37'54	10 <b>M</b> .53	24°21	19°19	21° 1	4°58	21° 5	22° 2	20°59	18°58	21°26	22°38	8°52	16°40	T 24
W25	18 13 8	3°35'06	23°12	24°39	18°50	21°32	5° 7	21° 8	22° 1	20°57	18°58	21°19	22°35	8°59	16°43	W25
T 26	18 17 5	4°32'19	5 <b>√</b> 147	24°53	18°24	22° 3	5°16	21°11	21°59	20°56	18°58	21°11	22°31	9° 6	16°46	T 26
F 27	18 21 2	5°29'30	18°39	25° 2	18° 0	22°35	5°25	21°15	21°58	20°54	18°58	21° 3	22°28	9°12	16°49	F 27
S 28	18 24 58	6°26'42	1 <b>七</b> 47	25°R 7	17°37	23° 6	5°34	21°18	21°56	20°53	18°58	20°56	22°25	9°19	16°52	S 28
S 29	18 28 55	7°23'53	15°11	25° 6	17°17	23°38	5°44	21°22	21°54	20°51	18°D58	20°50	22°22	9°26	16°55	S 29
M30	18 32 51	8921'05	28 <b>궁</b> 49	2595 2	17 <b>II</b> 0	24Mp 9	5 <b>m</b> 53	21 Mp 26	21 <b>M</b> 53	20 <b>×</b> 30	18 <b>≏</b> 58	$20\Omega47$	22 <b>\Omega</b> 19	9 <b>॒</b> 32	16 <b>8</b> 58	M30

S   1   22n   3   19838   3n41   25n37   2n10   25n25   2n15   2n55   2n2   2n1   2n1	Day	0	D	ğ	Ş	2	♂	2	ł	ŧ	ì	)į	ξ(	¥		Р	v	v	Ç	ç	
M 2		decl	decl lat	decl	lat decl	lat dec	l lat	decl	lat	decl	lat	decl	lat	decl la	at	decl lat	decl	decl	decl	decl	lat
F 6 22 39 8 3 1 51 25 14 2 1 24 25 0 59 7 57 1 5 11 36 1 8 5 53 2 15 18 10 0 17 21 45 1 25 8 42 17 28 13 59 13 40 0 S 7 22 45 3 30 2 57 25 4 1 57 24 12 0 46 7 45 1 3 11 33 1 8 5 5 52 2 15 18 9 0 17 21 45 1 25 8 41 17 27 13 59 13 41 0 S 8 22 50 1n17 3 52 24 53 1 52 23 59 0 33 7 33 1 2 11 31 1 8 5 5 10 2 14 18 8 0 17 21 45 1 25 8 41 17 27 14 0 13 42 0 M 9 22 55 6 2 4 34 24 41 1 47 23 45 0 19 7 21 1 1 11 28 1 8 5 50 2 14 18 8 0 17 21 45 1 25 8 41 17 27 14 0 13 42 0 W 11 23 5 14 15 5 3 24 13 1 33 23 15 08 9 6 57 0 58 11 23 1 7 5 49 2 14 18 7 0 17 21 45 1 25 8 40 17 25 14 10 13 43 0 T 12 23 5 14 15 5 3 24 13 1 33 23 15 08 9 6 57 0 58 11 23 1 7 5 49 2 14 18 7 0 17 21 45 1 25 8 40 17 25 14 10 13 46 0 F 13 23 12 19 0 4 18 23 42 1 1 17 22 45 0 37 6 32 0 55 11 17 1 7 5 47 2 14 18 6 0 17 21 45 1 25 8 40 17 25 14 10 13 46 0 F 13 23 16 19 41 3 3 2 23 25 1 8 22 30 0 51 6 20 0 54 11 14 1 7 7 5 47 2 14 18 6 0 17 21 45 1 25 8 40 17 24 14 13 13 47 0 S 14 23 16 19 41 3 3 2 23 25 1 8 22 30 0 51 6 20 0 54 11 14 1 7 7 5 47 2 14 18 6 0 17 21 45 1 25 8 40 17 24 14 13 13 47 0 S 14 23 16 19 41 3 2 22 49 0 48 21 59 1 20 5 55 0 51 11 17 1 7 5 47 2 14 18 6 0 17 21 45 1 25 8 39 17 23 14 18 13 50 0 M 16 23 21 17 44 1 32 22 49 0 48 21 59 1 20 5 55 0 51 11 18 1 7 7 5 44 2 13 18 5 0 17 21 44 1 25 8 39 17 23 14 18 13 50 0 T 19 23 25 8 58 1 4 12 5 0 14 20 5 5 7 21 3 5 4 0 49 11 2 1 6 6 5 41 2 13 18 3 0 17 21 44 1 25 8 39 17 22 14 19 13 52 0 T 19 23 26 5 18 14 12 25 0 0 40 22 12 0 25 21 27 1 47 5 30 0 49 11 2 1 6 6 5 41 2 13 18 3 0 17 21 44 1 25 8 37 17 20 14 18 13 50 0 S 12 2 23 26 6 1 16 3 32 21 15 0 4 20 25 2 23 8 4 38 0 44 10 49 1 6 5 36 21 21 18 2 0 17 21 44 1 25 8 37 17 20 14 18 13 50 0 S 12 2 23 26 6 37 4 44 20 37 0 43 20 13 25 0 4 25 0 43 10 46 10 6 5 34 2 12 18 1 0 17 21 44 1 25 8 37 17 20 14 18 13 55 0 T 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	M 2 T 3 W 4	22 11 22 18 22 25	19 18 2 4 17 54 1 4 15 27 0 3	8 25 36 4 25 33 4 25 28	2 10 25 14 2 9 25 2 2 7 24 51	1 48 8 4 1 36 8 3 1 24 8 2	3 1 10 1 1 9 0 1 7	11 46 11 43 11 41	1 9 1 9 1 8	5 56 5 55 5 54	2 16 2 16 2 15	18 12 18 11 18 11	0 17 0 17 0 17	21 46 21 46 21 46	1 25 1 25 1 25	8 42 17 30 8 42 17 29 8 42 17 29	13 57 13 59 13 59	13 35 13 36 13 37	0 39 0 37 0 35	14n50 14 51 14 52 14 53	1 s41 1 41 1 41 1 41
M 9	F 6 S 7	22 39 22 45	8 3 1 5 3 30 2 5	1 25 14 7 25 4	2 1 24 25 1 57 24 12	0 59 7 5 0 46 7 4	7 1 5 5 1 3	11 36	1 8 1 8	5 53 5 52	2 15 2 15	18 10 18 9	0 17 0 17	21 45 21 45	1 25 1 25	8 42 17 28 8 41 17 28	3 13 59 7 13 59	13 40 13 41	0 31 0 29	14 54 14 55 14 56 14 57	1 42 1 42 1 42
M16 23 21 17 44 1 32 22 49 0 48 21 59 1 20 5 55 0 51 11 8 1 7 5 43 2 13 18 4 0 17 21 44 1 25 8 39 17 23 14 18 13 50 0 T17 23 23 15 24 0 26 22 31 0 36 21 43 1 33 5 42 0 50 11 5 1 7 5 42 2 13 18 4 0 17 21 44 1 25 8 39 17 22 14 19 13 51 0 W18 23 24 12 25 0n40 22 12 0 25 21 27 1 47 5 30 0 49 11 2 1 6 5 41 2 13 18 3 0 17 21 44 1 25 8 38 17 22 14 19 13 52 0 T19 23 25 8 58 1 44 21 53 0 12 21 12 2 0 5 17 0 47 10 59 1 6 5 40 2 12 18 3 0 17 21 44 1 25 8 38 17 21 14 18 13 53 0 F2 0 23 26 5 12 2 41 21 34 0s 1 20 57 2 13 5 4 0 46 10 56 1 6 5 38 2 12 18 3 0 17 21 44 1 25 8 37 17 21 14 18 13 55 0 S1 2 2 32 2 2 3 2 6 2 5 4 3 4 13 20 55 0 28 20 27 2 38 4 38 0 44 10 49 1 6 5 36 2 12 18 2 0 17 21 44 1 25 8 37 17 20 14 19 13 55 0 W12 32 32 6 6 37 4 44 20 37 0 43 20 13 2 50 4 25 0 43 10 46 1 6 5 34 2 12 18 1 0 17 21 44 1 24 8 36 17 19 14 20 13 57 0 T24 23 25 10 18 5 2 20 18 0 58 20 0 3 1 4 12 0 41 10 43 1 6 5 33 2 12 18 1 0 16 21 44 1 24 8 36 17 18 14 21 13 58 0 W25 23 23 21 6 23 4 58 19 42 1 29 19 34 3 23 3 45 0 39 10 36 1 6 5 30 2 11 18 0 0 16 21 44 1 24 8 35 17 17 14 26 14 0 0	M 9 T 10 W11 T 12 F 13	22 55 23 0 23 5 23 9 23 12	6 2 4 3 10 27 4 5 14 15 5 17 10 4 4 19 0 4 1	4 24 41 8 24 28 3 24 13 9 23 58 8 23 42	1 47 23 45 1 41 23 30 1 33 23 15 1 26 23 0 1 17 22 45	0 19 7 2 0 5 7 0s 9 6 5 0 23 6 4 0 37 6 3	1 1 1 9 0 59 7 0 58 5 0 56 2 0 55	11 28 11 25 11 23 11 20 11 17	1 8 1 8 1 7 1 7 1 7	5 50 5 50 5 49 5 48 5 47	2 14 2 14 2 14 2 14 2 14	18 8 18 7 18 7 18 6 18 6	0 17 0 17 0 17 0 17 0 17	21 45 21 45 21 45 21 45 21 45	1 25 1 25 1 25 1 25 1 25 1 25	8 41 17 20 8 41 17 20 8 40 17 2: 8 40 17 2: 8 40 17 2:	5 14 1 5 14 4 5 14 6 5 14 10 4 14 13	13 43 13 44 13 45 13 46 13 47	0 25 0 23	14 58 14 58 14 59 15 0 15 1	1 42 1 42 1 42 1 42 1 42 1 43 1 43
M23	M16 T 17 W18 T 19 F 20	23 21 23 23 23 24 23 25 23 26	17 44 1 3 15 24 0 2 12 25 0n4 8 58 1 4 5 12 2 4	2 22 49 6 22 31 0 22 12 4 21 53 1 21 34	0 48 21 59 0 36 21 43 0 25 21 27 0 12 21 12 0s 1 20 57	1 20 5 5 1 33 5 4 1 47 5 3 2 0 5 1 2 13 5	5 0 51 2 0 50 0 0 49 7 0 47 4 0 46	11 8 11 5 11 2 10 59 10 56	1 7 1 7 1 6 1 6 1 6	5 43 5 42 5 41 5 40 5 38	2 13 2 13 2 13 2 12 2 12	18 4 18 4 18 3 18 3 18 3	0 17 0 17 0 17 0 17 0 17	21 44 21 44 21 44 21 44 21 44	1 25 1 25 1 25 1 25 1 25 1 25	8 39 17 22 8 39 17 22 8 38 17 22 8 38 17 2 8 37 17 2	3 14 18 2 14 19 2 14 19 1 14 18 1 14 18	13 50 13 51 13 52 13 53 13 54	0 7 0 5 0 2	-	1 43 1 43 1 43 1 43 1 43 1 44 1 44
	M23 T 24 W25 T 26 F 27 S 28	23 26 23 25 23 23 23 22 23 20 23 17	6 37 4 4 10 18 5 13 37 5 16 23 4 5 18 25 4 3 19 32 3 5	4 20 37 2 20 18 7 20 0 8 19 42 3 19 25 4 19 8	0 43 20 13 0 58 20 0 1 13 19 47 1 29 19 34 1 44 19 22 2 0 19 11	2 50 4 2 3 1 4 1 3 12 3 5 3 23 3 4 3 32 3 3 3 42 3 1	5 0 43 2 0 41 8 0 40 5 0 39 2 0 38 8 0 37	10 46 10 43 10 39 10 36 10 32 10 29	1 6 1 6 1 6 1 6 1 5 1 5	5 34 5 33 5 32 5 30 5 29 5 27	2 12 2 12 2 11 2 11 2 11 2 11	18 1 18 1 18 0 18 0 18 0 17 59	0 17 0 16 0 16 0 16 0 16 0 16	21 44 21 44 21 44 21 44 21 43 21 43	1 24 1 24 1 24 1 24 1 24 1 24	8 36 17 19 8 36 17 13 8 35 17 13 8 35 17 17 8 34 17 17 8 34 17 16	9 14 20 8 14 21 8 14 24 7 14 26 7 14 29 6 14 31	13 57 13 58 13 59 14 0 14 1 14 2	0 6 0 8 0 10 0 12 0 14	15 8 15 9 15 9 15 10 15 11 15 11 15 12 15 13	1 44 1 44 1 44 1 44 1 45 1 45 1 45

Julian Day Number = 2444391.5, Delta T = 50.90 sec Ecliptic obliquity =  $23^{\circ}26'23$ , Nutation =  $-0^{\circ}00'11$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}28'00$ , Lahiri =  $23^{\circ}35'01$ 

JULY 1980 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂ <sup>™</sup>	24	ħ	)∤(	并	В	R	Ω	Ç	ķ	Day
T 1	18 36 48	99518'16	12≈38	24°R52	16°R45	24 mp 41	6M) 3	21 m/29	21°R52	20°R48	18₽58	20°R45	22 <b>Ω</b> 15	9 <u>0</u> 39	17 <b>8</b> 0	T 1
W 2	18 40 44	10°15'27	26°36	24 K32 24 <b>©</b> 39	16 K43 16Ⅲ32	25°13	6°12	21°33	21 K32 21 M 50	20 K48 20 <b>×</b> 747	18°58	20°D45	22°12	9 <b>==</b> 39	17° 3	W 2
T 3	18 44 41	10°13'27	10 <b>)</b> (41	24°21	16°21	25°45	6°22	21°37	21°49	20°45	18°58	20 Ω45 20Ω46	22° 9	9°52	17° 6	T 3
F 4	18 48 37	12° 9'50	24°49	23°59	16°13	26°18	6°32	21°41	21°47	20°44	18°59	20°47	22° 6	9°59	17° 8	F 4
S 5	18 52 34	13° 7'01	9Υ 0	23°33	16° 8	26°50	6°42	21°45	21°46	20°42	18°59	20°R48	22° 3	10° 6	17°11	S 5
$ _{S=6}$	18 56 31	14° 4'13	23°12	23° 4	16° 4	27°23	6°52	21°49	21°45	20°41	18°59	20°47	22° 0	10°13	17°13	S 6
M 7	19 0 27	15° 1'26	7 <b>8</b> 23	22°32	16°D 3	27°56	7° 2	21°54	21°44	20°39	18°59	20°46	21°56	10°19	17°16	M 7
T 8	19 4 24	15°58'39	21°29	21°58	16° 5	28°29	7°12	21°58	21°43	20°38	18°59	20°42	21°53	10°26	17°18	T 8
W 9	19 8 20	16°55'52	5 <b>Ⅱ</b> 30	21°21	16° 8	29° 2	7°22	22° 2	21°42	20°36	19° 0	20°38	21°50	10°33	17°21	W 9
T 10	19 12 17	17°53'06	19°20	20°44	16°14	29°35	7°32	22° 7	21°41	20°35	19° 0	20°33	21°47	10°39	17°23	T 10
F 11	19 16 13	18°50'20	2958	20° 5	16°23	0 <b>亚</b> 8	7°43	22°11	21°40	20°34	19° 1	20°28	21°44	10°46	17°26	F 11
S 12	19 20 10	19°47'34	16°21	19°27	16°33	0°42	7°53	22°16	21°39	20°32	19° 1	20°24	21°41	10°53	17°28	S 12
S 13	19 24 6	20°44'49	29°26	18°49	16°45	1°16	8° 4	22°21	21°38	20°31	19° 1	20°21	21°37	10°59	17°30	S 13
M14	19 28 3	21°42'04	12 <b>Ω</b> 14	18°12	16°59	1°49	8°14	22°26	21°37	20°30	19° 2	20°20	21°34	11° 6	17°32	M14
T 15	19 32 0	22°39'19	24°46	17°37	17°16	2°23	8°25	22°30	21°36	20°28	19° 2	20°D19	21°31	11°13	17°34	T 15
W16	19 35 56	23°36'34	7MD 2	17° 5	17°34	2°57	8°36	22°35	21°35	20°27	19° 3	20°20	21°28	11°19	17°36	W16
T 17	19 39 53	24°33'49	19° 6	16°36	17°54	3°32	8°47	22°40	21°35	20°26	19° 4	20°22	21°25	11°26	17°39	T 17
F 18	19 43 49	25°31'04	1 <u>₽</u> 2	16°10	18°15	4° 6	8°58	22°45	21°34	20°24	19° 4	20°24	21°21	11°33	17°41	F 18
S 19	19 47 46	26°28'20	12°54	15°49	18°39	4°40	9° 9	22°51	21°33	20°23	19° 5	20°25	21°18	11°40	17°42	S 19
S 20	19 51 42	27°25'36	24°46	15°32	19° 4	5°15	9°20	22°56	21°33	20°22	19° 6	20°R26	21°15	11°46	17°44	S 20
M21	19 55 39	28°22'52	6M43	15°20	19°30	5°50	9°31	23° 1	21°32	20°21	19° 6	20°25	21°12	11°53	17°46	M21
T 22	19 59 35	29°20'09	18°50	15°14	19°58	6°24	9°42	23° 6	21°32	20°20	19° 7	20°24	21° 9	12° 0	17°48	T 22
W23	20 3 32	0 <b>Ω</b> 17'25	1 <b>×</b> 12	15°D12	20°28	6°59	9°54	23°12	21°31	20°18	19° 8	20°22	21° 6	12° 6	17°50	W23
T 24	20 7 29	1°14'43	13°51	15°17	20°59	7°35	10° 5	23°17	21°31	20°17	19° 9	20°20	21° 2	12°13	17°51	T 24
F 25	20 11 25	2°12'00	26°50	15°28	21°32	8°10	10°16	23°23	21°31	20°16	19°10	20°17	20°59	12°20	17°53	F 25
S 26	20 15 22	3° 9'18	10중11	15°44	22° 5	8°45	10°28	23°28	21°30	20°15	19°10	20°15	20°56	12°26	17°55	S 26
S 27	20 19 18	4° 6'37	23°52	16° 6	22°40	9°20	10°39	23°34	21°30	20°14	19°11	20°13	20°53	12°33	17°56	S 27
M28	20 23 15	5° 3'57	7≈52	16°35	23°17	9°56	10°51	23°40	21°30	20°13	19°12	20°12	20°50	12°40	17°58	M28
T 29	20 27 11	6° 1'17	22° 6	17°10	23°54	10°32	11° 3	23°46	21°30	20°12	19°13	20°D11	20°47	12°46	17°59	T 29
W30	20 31 8	6°58'38	6 <b>∺</b> 31	17°50	24°33	11° 7	11°14	23°51	21°D30	20°11 20 <b>×</b> 10	19°14 19 <b>Ω</b> 15	20°12	20°43	12°53	18° 1	W30 T 31
T 31	20 35 4	$7\Omega$ 55'59	21 <b>米</b> 0	18937	25 <b>Ⅱ</b> 13	11 <b>≏</b> 43	11 <b>M</b> 26	23 <b>m</b> 57	21 <b>M</b> 30	∠U <b>×</b> '10	192415	20 <b>Ω</b> 13	20 <b>Ω</b> 40	13 <b>♀</b> 0	18 <b>8</b> 2	1 31

Day	0	D	ğ	φ	♂ <sup>1</sup>	4	ħ	)Å(	并	Р	w v	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
T 1 W 2	23n 7 23 3	13 9 0s32	-	3 18 34 4 13	2n37 0n33 2 24 0 32	10 14 1 5	5 21 2 10	17 58 0 16	21 s43 1 n24 21 43 1 24	8 32 17 14		0 22	15n14 1s45 15 15 1 45
T 3 F 4 S 5	22 58 22 53 22 48	9 12 1 46 4 44 2 55 0n 0 3 53	17 49 3 3	2 18 19 4 26	2 10 0 31 1 56 0 30 1 42 0 29	10 7 1 5	5 17 2 10	17 57 0 16	21 43 1 24 21 43 1 24 21 43 1 24		14 34 14 8 14 34 14 9 14 34 14 10	0 26	15 15 1 46 15 16 1 46 15 16 1 46
		9 12 5 3 13 7 5 11 16 17 5 1	17 32 3 5 17 26 4 1 17 21 4 2 17 17 4 3 17 15 4 3	1 18 3 4 41 1 18 0 4 45 1 17 56 4 48	1 28 0 28 1 14 0 27 1 0 0 26 0 46 0 25 0 32 0 24	9 56 1 4	5 12 2 9 5 10 2 9 5 8 2 9	17 56 0 16 17 56 0 16 17 56 0 16	21 43 1 24 21 43 1 24 21 43 1 24 21 43 1 24 21 42 1 24	8 29 17 11 8 28 17 11 8 27 17 10	14 34 14 11 14 34 14 12 14 35 14 13 14 37 14 14 14 38 14 15		15 18 1 47
F 11	-	19 34 3 50	17 14 4 4 17 15 4 5	5 17 52 4 54	0 17 0 23 0 3 0 22	9 40 1 4 9 36 1 4	5 4 2 9	17 55 0 16	21 42 1 24 21 42 1 24	8 26 17 9	14 40 14 16 14 41 14 17	0 41 0 43	15 19 1 47
M14 T 15 W16 T 17 F 18	21 50 21 41 21 32 21 23 21 13 21 2 20 52	16 25 0 44 13 39 0n24 10 20 1 31 6 38 2 32 2 44 3 25	17 20 4 5 17 24 4 5 17 30 4 5 17 37 4 5	5 17 50 5 1 3 17 51 5 2 0 17 52 5 2 5 17 54 5 3	0 s11 0 20 0 26 0 19 0 40 0 18 0 55 0 17 1 9 0 16 1 24 0 15 1 38 0 14	9 28 1 4 9 24 1 4 9 20 1 4	4 58 2 8 4 56 2 8 4 54 2 8 4 52 2 8 4 50 2 8	17 55 0 16 17 54 0 16 17 54 0 16 17 54 0 16 17 54 0 16	21 42 1 24 21 42 1 24	8 24 17 7 8 23 17 7 8 23 17 6 8 22 17 5 8 21 17 5	14 42 14 18 14 43 14 19 14 43 14 20 14 42 14 21 14 42 14 22 14 41 14 23 14 41 14 24	0 45 0 47 0 49 0 51 0 53 0 55 0 58	15 21 1 47 15 21 1 48 15 22 1 48 15 22 1 48 15 22 1 48
S 20 M21 T 22 W23 T 24 F 25 S 26	20 5 19 53 19 40	12 22 5 15 15 21 5 10 17 41 4 49 19 11 4 14	18 13 4 2 18 24 4 1	2 18 1 5 2 2 18 4 5 1 0 18 7 5 0 8 18 10 4 58 5 18 14 4 57	1 53 0 14 2 7 0 13 2 22 0 12 2 37 0 11 2 51 0 10 3 6 0 9 3 21 0 8	8 54 1 3 8 50 1 3 8 46 1 3 8 41 1 3	4 43 2 7 4 41 2 7 4 39 2 7 4 36 2 7 4 34 2 7	17 54 0 16 17 53 0 16 17 53 0 16 17 53 0 16 17 53 0 16	21 42 1 24 21 42 1 24	8 19 17 3 8 18 17 3 8 17 17 2 8 16 17 2 8 16 17 1	14 41 14 25 14 41 14 26 14 41 14 27 14 42 14 28 14 43 14 29 14 44 14 30 14 44 14 31	1 2 1 4 1 6	
S 27 M28 T 29 W30 T 31		17 13 1 8 14 19 0s11 10 30 1 29	-	3 18 34 4 46	3 36 0 7 3 51 0 6 4 5 0 5 4 20 0 4 4 s35 0n 3	8 28 1 3	4 27 2 6 4 25 2 6 4 22 2 6	17 53 0 16 17 53 0 16 17 53 0 16	21 42 1 24 21 42 1 23 21 41 1 23 21 41 1 23 21 s41 1n23	8 13 16 59 8 12 16 59 8 11 16 58	14 45 14 32 14 45 14 33 14 45 14 34 14 45 14 35 14n45 14n36	1 16 1 18 1 20	15 25 1 50 15 26 1 50

Julian Day Number = 2444421.5, Delta T = 50.97 sec Ecliptic obliquity =  $23^{\circ}26'23$ , Nutation = -  $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}28'04$ , Lahiri =  $23^{\circ}35'05$ 

AUGUST 1980 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ď	4	ħ	)∤(	并	В	₽.	v	Ç	Ŷ,	Day
F 1	20 39 1	8 <b>Ω</b> 53'22	5 <b>Υ</b> 30	199529	25 <b>II</b> 53	12 <b>Ω</b> 19	11 <b>m</b> )38	24 m) 3	21 <b>M</b> 30	20°R 9	19 <b>Ω</b> 16	20Ω14	20Ω37	13 <b>♀</b> 7	18 <b>8</b> 3	F 1
S 2	20 42 58	9°50'46	19°55	20°27	26°35	12°55	11°50	24° 9	21°30	20 <b>∡</b> 8	19°18	20°14	20°34	13°13	18° 4	S 2
S 3	20 46 54	10°48'11	4812	21°31	27°18	13°32	12° 2	24°15	21°30	20° 7	19°19	20°15	20°31	13°20	18° 5	S 3
M 4	20 50 51	11°45'38	18°18	22°41	28° 2	14° 8	12°14	24°21	21°30	20° 6	19°20	20°R15	20°27	13°27	18° 7	M 4
T 5	20 54 47	12°43'06	2 <b>Ⅱ</b> 13	23°56	28°47	14°44	12°26	24°27	21°31	20° 6	19°21	20°14	20°24	13°33	18° 8	T 5
W 6	20 58 44	13°40'35	15°53	25°16	29°32	15°21	12°38	24°34	21°31	20° 5	19°22	20°14	20°21	13°40	18° 9	W 6
T 7	21 2 40	14°38'05	29°20	26°41	09519	15°58	12°50	24°40	21°31	20° 4	19°24	20°13	20°18	13°47	18°10	T 7
F 8	21 6 37	15°35'37	12533	28°11	1° 6	16°34	13° 2	24°46	21°32	20° 3	19°25	20°13	20°15	13°53	18°10	F 8
S 9	21 10 33	16°33'10	25°31	29°46	1°54	17°11	13°14	24°53	21°32	20° 3	19°26	20°12	20°12	14° 0	18°11	S 9
S 10	21 14 30	17°30'44	8 <b>Ω</b> 16	1 <b>Ω</b> 25	2°43	17°48	13°27	24°59	21°33	20° 2	19°28	20°12	20° 8	14° 7	18°12	S 10
M11	21 18 27	18°28'19	20°47	3° 7	3°32	18°25	13°39	25° 5	21°33	20° 1	19°29	20°D12	20° 5	14°13	18°13	M11
T 12	21 22 23	19°25'55	3 <b>m</b> y 7	4°53	4°22	19° 3	13°51	25°12	21°34	20° 1	19°30	20°12	20° 2	14°20	18°13	T 12
W13	21 26 20	20°23'33	15°15	6°43	5°13	19°40	14° 4	25°18	21°35	20° 0	19°32	20°R12	19°59	14°27	18°14	W13
T 14	21 30 16	21°21'11	27°15	8°35	6° 5	20°17	14°16	25°25	21°35	19°59	19°33	20°12	19°56	14°34	18°14	T 14
F 15	21 34 13	22°18'51	9 <b>₾</b> 9	10°29	6°57	20°55	14°28	25°32	21°36	19°59	19°35	20°12	19°53	14°40	18°15	F 15
S 16	21 38 9	23°16'31	20°59	12°26	7°50	21°33	14°41	25°38	21°37	19°58	19°36	20°11	19°49	14°47	18°15	S 16
S 17	21 42 6	24°14'13	2 <b>M</b> 51	14°24	8°43	22°10	14°53	25°45	21°38	19°58	19°38	20°11	19°46	14°54	18°16	S 17
M18	21 46 2	25°11'56	14°47	16°23	9°37	22°48	15° 6	25°52	21°39	19°57	19°39	20°11	19°43	15° 0	18°16	M18
T 19	21 49 59	26° 9'40	26°53	18°23	10°32	23°26	15°19	25°59	21°40	19°57	19°41	20°D11	19°40	15° 7	18°16	T 19
W20	21 53 56	27° 7'25	9 <b>∡</b> 12	20°24	11°27	24° 4	15°31	26° 5	21°41	19°56	19°42	20°11	19°37	15°14	18°16	W20
T 21	21 57 52	28° 5'11	21°50	22°25	12°22	24°42	15°44	26°12	21°42	19°56	19°44	20°11	19°33	15°20	18°17	T 21
F 22	22 1 49	29° 2'58	4 <b>⋜</b> 49	24°26	13°18	25°20	15°57	26°19	21°43	19°56	19°46	20°12	19°30	15°27	18°17	F 22
S 23	22 5 45	0 Mg 0'47	18°12	26°26	14°15	25°59	16° 9	26°26	21°44	19°55	19°47	20°13	19°27	15°34	18°R17	S 23
S 24	22 9 42	0°58'36	2≈ 1	28°26	15°12	26°37	16°22	26°33	21°46	19°55	19°49	20°14	19°24	15°41	18°17	S 24
M25	22 13 38	1°56'27	16°14	0 <b>₯</b> 26	16° 9	27°16	16°35	26°40	21°47	19°55	19°51	20°R14	19°21	15°47	18°17	M25
T 26	22 17 35	2°54'20	0 <b>)</b> €47	2°25	17° 7	27°54	16°47	26°47	21°48	19°55	19°53	20°14	19°18	15°54	18°16	T 26
W27	22 21 31	3°52'14	15°35	4°22	18° 6	28°33	17° 0	26°54	21°50	19°55	19°55	20°13	19°14	16° 1	18°16	W27
T 28	22 25 28	4°50'09	0 <b>Υ</b> 31	6°19	19° 4	29°12	17°13	27° 1	21°51	19°54	19°56	20°12	19°11	16° 7	18°16	T 28
F 29	22 29 25	5°48'06	15°25	8°15	20° 4	29°51	17°26	27° 8	21°52	19°54	19°58	20°10	19° 8	16°14	18°15	F 29
S 30	22 33 21	6°46'05	0812	10°10	21° 3	0 <b>M</b> .30	17°39	27°15	21°54	19°54	20° 0	20° 8	19° 5	16°21	18°15	S 30
S 31	22 37 18	7 <b>m</b> 44'06	14843	12 mg 3	229 3	1M 9	17 <b>m</b> 52	27 <b>m</b> 22	21 <b>IL</b> 56	19 <b>×7</b> 54	20 <b>♀</b> 2	20 <b>N</b> 6	198 2	16 <b>≏</b> 27	18 <b>8</b> 15	S 31

Day	0	D	ğ	·	♂¹	24	ħ	)Å(	卉	В	n n	Ç	, k
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
F 1 S 2	18n 2 17 47		20n11 1s5 20 18 1 3		4 s 5 0 0 n 2 5 5 0 1	8n10 1n 3 8 5 1 3			21 s41 1n23 21 41 1 23		14n45 14n37 14 44 14 38		15n26 1 s51 15 26 1 51
S 3 M 4 T 5 W 6 T 7 F 8 S 9	16 27 16 10 15 53	12 12 5 17 15 32 5 10 17 57 4 46 19 20 4 6 19 38 3 14 18 52 2 13	20 30 0 5 20 30 0 3 20 28 0 2 20 24 0 20 17 0n	5 18 55 4 31 50 18 59 4 27 36 19 2 4 24 22 19 6 4 20 8 19 10 4 17 5 19 13 4 13	5 20 0 1 5 35 0s 0 5 50 0 1 6 5 0 2 6 19 0 3 6 34 0 4 6 49 0 5	8 1 1 3 7 56 1 3 7 52 1 3 7 47 1 2 7 42 1 2 7 38 1 2 7 33 1 2	4 12 2 6 4 10 2 6 4 7 2 6 4 5 2 5 4 2 2 5 4 0 2 5 3 57 2 5	17 53 0 16 17 53 0 16 17 54 0 16 17 54 0 16 17 54 0 15 17 54 0 15	21 41 1 23 21 41 1 23	8 7 16 56 8 6 16 55 8 5 16 55 8 4 16 54 8 3 16 54 8 2 16 53	14 44 14 39 14 44 14 40 14 44 14 41 14 45 14 42 14 45 14 43 14 45 14 44 14 45 14 45	1 31 1 33 1 35 1 37 1 39 1 41	15 26 1 51 15 27 1 51 15 27 1 51 15 27 1 51 15 27 1 52 15 27 1 52 15 27 1 52
S 10 M11 T 12 W13 T 14 F 15 S 16	15 35 15 17 15 0 14 41 14 23 14 4 13 46	14 37 On 3 11 28 1 11 7 53 2 15 4 1 3 11 0 3 3 59	19 56 0 2 19 42 0 4 19 25 0 5 19 5 1 18 42 1	29 19 19 4 5 40 19 22 4 1 51 19 24 3 56 0 19 26 3 52 8 19 28 3 48	7 4 0 5 7 19 0 6 7 34 0 7 7 49 0 8 8 4 0 9 8 19 0 9 8 33 0 10	7 28 1 2 7 23 1 2 7 19 1 2 7 14 1 2 7 9 1 2 7 4 1 2 6 59 1 2	3 44 2 5 3 41 2 5	17 54 0 15 17 54 0 15 17 55 0 15 17 55 0 15 17 55 0 15	21 41 1 23 21 41 1 23	8 1 16 52 8 0 16 52 7 59 16 51 7 58 16 51 7 57 16 50	14 45 14 46 14 45 14 47 14 45 14 48 14 45 14 49 14 45 14 51 14 45 14 51 14 45 14 52	1 46 1 48 1 50 1 52 1 54	15 27 1 52 15 27 1 53 15 27 1 54
S 17 M18 T 19 W20 T 21 F 22 S 23	12 28 12 8 11 48	11 14 5 16 14 21 5 15 16 53 5 0 18 42 4 30 19 35 3 46	16 48 1 3 16 14 1 3 15 38 1 4 15 0 1 4	29	10 17 0 16	6 54 1 2 6 50 1 2 6 45 1 2 6 40 1 2 6 35 1 2 6 30 1 2 6 25 1 2	3 33 2 5 3 30 2 4 3 27 2 4 3 25 2 4 3 22 2 4	17 56 0 15 17 56 0 15 17 56 0 15 17 57 0 15 17 57 0 15	21 41 1 23 21 41 1 23 21 41 1 22 21 41 1 22 21 41 1 22 21 41 1 22 21 41 1 22	7 54 16 49 7 53 16 49 7 52 16 48 7 51 16 48 7 50 16 47 7 49 16 47	14 45 14 53 14 46 14 54 14 46 14 55 14 46 14 56 14 45 14 57 14 45 14 58 14 45 14 59	2 0 2 2 2 5 2 7 2 9	15 27 1 54 15 27 1 54 15 26 1 54 15 26 1 54 15 26 1 55 15 26 1 55 15 26 1 55
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	10 47 10 26 10 5 9 44 9 23 9 2	15 37 0 22 12 6 0s58 7 46 2 16 2 56 3 25 2n 5 4 20	12 58 1 4 12 15 1 4 11 32 1 4 10 47 1 4 10 2 1 4 9 16 1 3	46 19 28 3 1 45 19 26 2 56 44 19 24 2 51 43 19 21 2 46 40 19 17 2 41 37 19 13 2 36	11 15 0 19 11 30 0 20 11 44 0 20	6 5 1 2 6 0 1 2 5 55 1 2 5 50 1 2		17 58 0 15 17 58 0 15 17 59 0 15 17 59 0 15 18 0 0 15 18 0 0 15	21 41 1 22 21 41 1 22 21 42 1 22	7 46 16 46 7 45 16 45 7 44 16 45 7 43 16 44 7 42 16 44	14 44 15 1 14 45 15 2 14 45 15 3 14 45 15 4 14 46 15 5	2 15 2 17 2 19 2 21 2 23 2 26	15 26 1 55 15 25 1 55 15 25 1 56 15 25 1 56 15 25 1 56 15 24 1 56 15 24 1 56 15 24 1 56

 $\label{eq:Julian Day Number = 2444452.5, Delta\ T=51.04\ sec} \\ Ecliptic\ obliquity = 23°26'23, Nutation = -0°00'10, out-of-bounds\ declination\ in\ red$ 

SEPTEMBER 1980 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ	)f(	卉	Р	n	v	Ç	ķ	Day
M 1	22 41 14	8 Mp 42'09	28 <b>8</b> 56	13 <b>m</b> 55	2395 3	1 <b>M</b> .48	18 <b>m</b> ) 4	27 <b>m</b> /30	21 <b>M</b> 57	19°D54	20 <b>♀</b> 4	20°R 5	18 <b>Ω</b> 58	16 <b>₽</b> 34	18°R14	M 1
T 2	22 45 11	9°40'14	12∏48	15°46	24° 4	2°27	18°17	27°37	21°59	19 <b>х</b> 54	20° 6	20°D 5	18°55	16°41	18 <b>8</b> 14	T 2
W 3	22 49 7	10°38'21	26°19	17°36	25° 5	3° 6	18°30	27°44	22° 1	19°54	20° 8	20 <b>N</b> 6	18°52	16°48	18°13	W 3
T 4	22 53 4	11°36'30	9930	19°25	26° 7	3°46	18°43	27°51	22° 2	19°54	20°10	20° 7	18°49	16°54	18°12	T 4
F 5	22 57 0	12°34'41	22°24	21°12	27° 9	4°25	18°56	27°59	22° 4	19°54	20°12	20° 8	18°46	17° 1	18°11	F 5
S 6	23 0 57	13°32'53	5 <b>Ω</b> 3	22°58	28°11	5° 5	19° 9	28° 6	22° 6	19°55	20°14	20°10	18°43	17° 8	18°11	S 6
S 7	23 4 53	14°31'08	17°29	24°44	29°13	5°45	19°22	28°13	22° 8	19°55	20°16	20°R10	18°39	17°14	18°10	S 7
M 8	23 8 50	15°29'24	29°44	26°27	0 <b>Ω</b> 16	6°24	19°35	28°20	22°10	19°55	20°18	20°10	18°36	17°21	18° 9	M 8
T 9	23 12 47	16°27'43	11 <b>m</b> ) 51	28°10	1°19	7° 4	19°48	28°28	22°12	19°55	20°20	20° 8	18°33	17°28	18° 8	T 9
W10	23 16 43	17°26'03	23°51	29°52	2°22	7°44	20° 1	28°35	22°14	19°56	20°22	20° 5	18°30	17°34	18° 7	W10
T 11	23 20 40	18°24'24	5 <b>≏</b> 46	1 <b>≏</b> 32	3°26	8°24	20°14	28°42	22°16	19°56	20°24	20° 1	18°27	17°41	18° 6	T 11
F 12	23 24 36	19°22'48	17°37	3°11	4°30	9° 5	20°27	28°50	22°18	19°56	20°26	19°56	18°24	17°48	18° 5	F 12
S 13	23 28 33	20°21'13	29°28	4°49	5°34	9°45	20°40	28°57	22°20	19°57	20°28	19°51	18°20	17°55	18° 3	S 13
S 14	23 32 29	21°19'40	11 <b>M</b> .19	6°27	6°38	10°25	20°53	29° 5	22°23	19°57	20°30	19°46	18°17	18° 1	18° 2	S 14
M15	23 36 26	22°18'09	23°15	8° 3	7°43	11° 6	21° 6	29°12	22°25	19°57	20°32	19°41	18°14	18° 8	18° 1	M15
T 16	23 40 22	23°16'40	5 <b>√</b> 19	9°37	8°48	11°46	21°19	29°19	22°27	19°58	20°35	19°38	18°11	18°15	17°59	T 16
W17	23 44 19	24°15'12	1 <u>7</u> °35	11°11	9°53	12°27	21°32	29°27	22°29	19°58	20°37	19°37	18° 8	18°21	17°58	W17
T 18	23 48 16	25°13'45	8 중0	12°44	10°58	13° 7	21°45	29°34	22°32	19°59	20°39	19°D36	18° 4	18°28	17°57	T 18
F 19	23 52 12	26°12'21	13° 1	14°16	12° 4	13°48	21°58	29°42	22°34	20° 0	20°41	19°37	18° 1	18°35	17°55	F 19
S 20	23 56 9	27°10'58	26°19	15°47	13°10	14°29	22°11	29°49	22°37	20° 0	20°43	19°39	17°58	18°42	17°53	S 20
S 21	0 0 5	28° 9'37	10≈ 4	17°17	14°16	15°10	22°24	29°57	22°39	20° 1	20°46	19°40	17°55	18°48	17°52	S 21
M22	0 4 2	29° 8'17	24°17	18°45	15°22	15°51	22°37	0요 4	22°42	20° 1	20°48	19°R40	17°52	18°55	17°50	M22
T 23	0 7 58	0 <b>요</b> 6'59	8 <b>)</b> 56	20°13	16°29	16°32	22°50	0°12	22°44	20° 2	20°50	19°39	17°49	19° 2	17°48	T 23
W24	0 11 55	1° 5'43	23°55	21°39	17°35	17°13	23° 3	0°19	22°47	20° 3	20°52	19°36	17°45	19°8	17°47	W24
T 25	0 15 51	2° 4'29	9 <b>Υ</b> 8	23° 5	18°42	17°55	23°16	0°26	22°50	20° 4	20°55	19°31	17°42	19°15	17°45	T 25
F 26	0 19 48	3° 3'17	24°23	24°29	19°50	18°36	23°29	0°34	22°52	20° 4	20°57	19°24	17°39	19°22	17°43	F 26
S 27	0 23 45	4° 2'07	9 <b>8</b> 30	25°53	20°57	19°17	23°41	0°41	22°55	20° 5	20°59	19°18	17°36	19°28	17°41	S 27
S 28	0 27 41	5° 0'59	24°20	27°15	22° 4	19°59	23°54	0°49	22°58	20° 6	21° 2	19°12	17°33	19°35	17°39	S 28
M29	0 31 38	5°59'54	8 <b>Ⅱ</b> 46	28°36	23°12	20°40	24° 7	0°56	23° 1	20° 7	21° 4	19° 7	17°29	19°42	17°37	M29
T 30	0 35 34	6 <b>₽</b> 58'51	22 <b>∏</b> 45	29 <b>≙</b> 56	24⋒20	21 <b>M</b> 22	24 Mp 20	1 <b>♀</b> 4	23M 3	20 <b>∡</b> 8	21 <b>♀</b> 6	19Ω 4	17 <b>£</b> 26	19 <b>≏</b> 49	17 <b>8</b> 35	T 30
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Day	0	D	ğ	·	♂ <sup>1</sup>	4	ħ	)f(	并	Р	w v	Ç	, k
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
M 1	8n18	14n51 5s12	7n43 1n30	0 19n 4 2s26	12 s27 0 s22	5n40 1n 2	2n53 2n 4	18 s 1 0n15	21 s42 1n22	7n40 16n43	14n47 15n 8	2 s 3 0	15n23 1s57
T 2	7 57	17 31 4 51	6 56 1 20	6 18 59 2 21	12 41 0 23	5 35 1 2	2 51 2 4	18 1 0 15	21 42 1 22	7 39 16 43	14 47 15 9	2 32	15 23 1 57
W 3	7 35	19 8 4 15	6 9 1 22	2 18 53 2 16	12 55 0 24	5 30 1 2	2 48 2 4	18 2 0 15	21 42 1 22	7 38 16 43	14 47 15 10	2 34	15 23 1 57
T 4	7 13	19 41 3 26	5 22 1 17	7 18 47 2 11	13 9 0 25	5 25 1 2	2 45 2 4	18 2 0 15	21 42 1 22	7 37 16 42	14 47 15 11	2 36	15 22 1 57
F 5	6 50	19 10 2 27	4 35 1 12	2 18 40 2 6	13 23 0 25	5 20 1 2	2 42 2 4	18 3 0 15	21 42 1 22	7 36 16 42	14 46 15 12	2 38	15 22 1 57
S 6	6 28	17 40 1 22	3 48 1 6	6 18 33 2 1	13 37 0 26	5 15 1 2	2 39 2 4	18 3 0 15	21 42 1 22	7 35 16 42	14 46 15 13	2 40	15 22 1 58
S 7	6 6	15 22 0 15	3 1 1 0	0 18 26 1 56	13 51 0 27	5 10 1 2	2 36 2 4	18 4 0 15	21 42 1 21	7 34 16 41	14 46 15 14	2 42	15 21 1 58
M 8	5 43	12 23 0n52	2 14 0 54	4 18 18 1 51	14 5 0 27	5 5 1 2	2 33 2 4	18 4 0 15	21 42 1 21	7 33 16 41	14 46 15 15	2 45	15 21 1 58
T 9	5 21	8 54 1 56	1 28 0 48		14 19 0 28	5 0 1 2	2 30 2 4	18 5 0 15	21 42 1 21	7 31 16 41	14 46 15 16	2 47	15 20 1 58
W10	4 58	5 7 2 54	0 41 0 42		14 33 0 29	4 54 1 2	2 27 2 4		21 42 1 21		14 47 15 17		15 20 1 58
T 11	4 35	1 8 3 44	0s 5 0 3		14 46 0 29	4 49 1 2			21 42 1 21		14 49 15 18		15 19 1 59
F 12	4 12	2 s 5 1 4 2 4	0 50 0 28		15 0 0 30	4 44 1 2	2 21 2 4		21 43 1 21		14 50 15 19		15 19 1 59
S 13	3 49	6 43 4 53	1 36 0 2	1 17 30 1 26	15 13 0 31	4 39 1 2	2 18 2 4	18 7 0 15	21 43 1 21	7 27 16 40	14 52 15 20	2 55	15 18 1 59
S 14	3 26	10 20 5 9	2 21 0 14	4 17 19 1 21	15 27 0 31	4 34 1 2	2 16 2 4	18 8 0 15	21 43 1 21	7 26 16 39	14 53 15 21	2 57	15 18 1 59
M15	3 3	13 34 5 11	3 5 0 7	7 17 7 1 16	15 40 0 32	4 29 1 2	2 13 2 4	18 8 0 15	21 43 1 21	7 25 16 39	14 55 15 22	2 59	15 17 1 59
T 16	2 40	16 16 5 0	3 49 0s	1 16 55 1 11	15 53 0 33	4 24 1 2	2 10 2 4	18 9 0 15	21 43 1 21	7 24 16 39	14 56 15 23	3 2	15 17 2 0
W17	2 17	18 17 4 36	4 33 0 8	8 16 43 1 6	16 6 0 33	4 19 1 2	2 7 2 4	18 10 0 15	21 43 1 21	7 23 16 39	14 56 15 24	3 4	15 16 2 0
T 18	1 54	19 29 3 57	5 16 0 10	6 16 30 1 1	16 19 0 34	4 14 1 2	2 4 2 4	18 10 0 15	21 43 1 21	7 22 16 38	14 56 15 25	3 6	15 15 2 0
F 19	1 31	19 43 3 6	5 59 0 23			4 9 1 3	2 1 2 4		21 43 1 21		14 56 15 26		15 15 2 0
S 20	1 7	18 52 2 4	6 41 0 3	1 16 3 0 52	16 45 0 35	4 4 1 3	1 58 2 4	18 11 0 15	21 43 1 21	7 20 16 38	14 55 15 27	3 10	15 14 2 0
S 21	0 44	16 53 0 52	7 22 0 38	8 15 48 0 47	16 57 0 36	3 59 1 3	1 55 2 4	18 12 0 15	21 43 1 21	7 19 16 38	14 55 15 28	3 12	15 14 2 1
M22	0 21	13 49 0s25	8 3 0 40	6 15 33 0 42	17 10 0 36	3 53 1 3	1 52 2 4	18 13 0 15	21 43 1 21	7 18 16 38	14 55 15 29	3 14	15 13 2 1
T 23	0 s 3	9 49 1 43	8 44 0 54	4 15 18 0 38	17 22 0 37	3 48 1 3	1 49 2 4	18 13 0 14	21 44 1 21	7 17 16 37	14 55 15 30	3 16	15 12 2 1
W24	0 26	5 5 2 55	9 23 1	1 15 2 0 33	17 35 0 38	3 43 1 3	1 46 2 4	18 14 0 14	21 44 1 21	7 16 16 37	14 56 15 31	3 19	15 12 2 1
T 25	0 50	0n 0 3 56	10 2 1 9	9 14 46 0 28	17 47 0 38	3 38 1 3	1 43 2 4	18 15 0 14	21 44 1 21	7 15 16 37	14 58 15 32	3 21	15 11 2 1
F 26	1 13	5 7 4 40	10 40 1 10	6 14 30 0 24	17 59 0 39	3 33 1 3	1 40 2 4	18 15 0 14	21 44 1 20	7 14 16 37	15 0 15 33	3 23	15 10 2 1
S 27	1 36	9 51 5 4	11 18 1 24	4 14 12 0 19	18 11 0 39	3 28 1 3	1 37 2 4	18 16 0 14	21 44 1 20	7 13 16 37	15 2 15 34	3 25	15 10 2 2
S 28	2 0	13 53 5 7	11 55 1 3	1 13 55 0 15	18 23 0 40	3 23 1 3	1 35 2 4	18 17 0 14	21 44 1 20	7 12 16 37	15 4 15 35	3 27	15 9 2 2
M29			12 31 1 38			3 18 1 3	-		21 44 1 20	7 12 16 36	15 5 15 36	3 29	
T 30	2 s46	18n58 4s17	13 s 6 1 s 4 c	6 13n19 0s 6	18 s46 0 s41	3n13 1n 3	1n29 2n 4	18s18 0n14	21 s44 1n20	7n11 16n36	15n 6 15n36	3 s 3 1	15n 7 2s 2

 $\label{eq:Julian Day Number = 2444483.5, Delta T = 51.11 sec} \\ Ecliptic obliquity = 23°26'24, Nutation = -0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°28'13, Lahiri = 23°35'13}$ 

OCTOBER 1980 00:00 UT

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Day	Sid.t	0	D	ğ	·	ð	4	ħ	)Å(	并	В	n	v	Ç	ę,	Day
W 1	0 39 31	7 <b>£</b> 57'50	6916	1 <b>M</b> .14	25 <b>Ω</b> 28	22M 4	24 m/33	1 <b>≏</b> 11	23M 6	20 <b>×</b> 9	21 <u>₽</u> 9	19°D 3	17 <b>Ω</b> 23	19 <b>Ω</b> 55	17°R33	W 1
T 2	0 43 27	8°56'51	19°23	2°32	26°37	22°46	24°46	1°18	23° 9	20°10	21°11	19Ω 4	17°20	20° 2	17 <b>8</b> 31	T 2
F 3	0 47 24	9°55'55	2 <b>N</b> 8	3°47	27°45	23°28	24°58	1°26	23°12	20°11	21°13	19° 5	17°17	20° 9	17°29	F 3
S 4	0 51 20	10°55'01	14°35	5° 2	28°54	24°10	25°11	1°33	23°15	20°12	21°16	19°R 6	17°14	20°15	17°26	S 4
S 5	0 55 17	11°54'10	26°49	6°15	0 <b>m</b> y 3	24°52	25°24	1°41	23°18	20°13	21°18	19° 5	17°10	20°22	17°24	S 5
M 6	0 59 14	12°53'20	8 <b>m</b> 53	7°26	1°12	25°34	25°37	1°48	23°21	20°14	21°20	19° 3	17° 7	20°29	17°22	M 6
T 7	1 3 10	13°52'33	20°50	8°35	2°21	26°16	25°49	1°55	23°24	20°15	21°23	18°59	17° 4	20°36	17°19	T 7
W 8	1 7 7	14°51'48	2 <b>≏</b> 43	9°43	3°30	26°58	26° 2	2° 3	23°27	20°16	21°25	18°51	17° 1	20°42	17°17	W 8
T 9	1 11 3	15°51'05	14°34	10°48	4°39	27°41	26°15	2°10	23°30	20°18	21°28	18°42	16°58	20°49	17°15	T 9
F 10	1 15 0	16°50'24	26°25	11°51	5°49	28°23	26°27	2°17	23°34	20°19	21°30	18°31	16°55	20°56	17°12	F 10
S 11	1 18 56	17°49'45	8 <b>M</b> .17	12°52	6°59	29° 6	26°40	2°25	23°37	20°20	21°32	18°19	16°51	21° 2	17°10	S 11
S 12	1 22 53	18°49'08	20°12	13°50	8° 9	29°49	26°52	2°32	23°40	20°21	21°35	18° 8	16°48	21° 9	17° 7	S 12
M13	1 26 49	19°48'33	2 <b>₹</b> 12	14°45	9°19	0 <b>₹</b> 31	27° 5	2°39	23°43	20°23	21°37	17°58	16°45	21°16	17° 5	M13
T 14	1 30 46	20°48'00	14°18	15°37	10°29	1°14	27°17	2°46	23°46	20°24	21°40	17°49	16°42	21°22	17° 2	T 14
W15	1 34 42	21°47'28	26°35	16°25	11°39	1°57	27°30	2°54	23°50	20°25	21°42	17°44	16°39	21°29	16°59	W15
T 16	1 38 39	22°46'59	9중 5	17°10	12°50	2°40	27°42	3° 1	23°53	20°27	21°44	17°41	16°35	21°36	16°57	T 16
F 17	1 42 36	23°46'31	21°53	17°50	14° 0	3°23	27°54	3° 8	23°56	20°28	21°47	17°D40	16°32	21°43	16°54	F 17
S 18	1 46 32	24°46'05	5≈ 2	18°25	15°11	4° 6	28° 7	3°15	24° 0	20°30	21°49	17°40	16°29	21°49	16°51	S 18
S 19	1 50 29	25°45'41	18°37	18°56	16°22	4°49	28°19	3°22	24° 3	20°31	21°52	17°R40	16°26	21°56	16°48	S 19
M20	1 54 25	26°45'18	2 <b>)</b> 39	19°21	17°33	5°32	28°31	3°29	24° 6	20°33	21°54	17°40	16°23	22° 3	16°46	M20
T 21	1 58 22	27°44'57	17° 9	19°39	18°44	6°16	28°43	3°36	24°10	20°34	21°56	17°37	16°20	22° 9	16°43	T 21
W22	2 2 18	28°44'38	2 <b>Υ</b> 4	19°51	19°55	6°59	28°55	3°43	24°13	20°36	21°59	17°31	16°16	22°16	16°40	W22
T 23	2 6 15	29°44'20	17°16	19°R55	21° 6	7°42	29° 7	3°50	24°17	20°37	22° 1	17°23	16°13	22°23	16°37	T 23
F 24	2 10 11	0 <b>M</b> .44'05	2 <b>8</b> 37	19°52	22°17	8°26	29°19	3°57	24°20	20°39	22° 3	17°13	16°10	22°30	16°34	F 24
S 25	2 14 8	1°43'52	17°54	19°40	23°29	9°10	29°31	4° 4	24°24	20°40	22° 6	17° 2	16° 7	22°36	16°31	S 25
S 26	2 18 5	2°43'40	2 <b>II</b> 56	19°20	24°41	9°53	29°43	4°11	24°27	20°42	22° 8	16°52	16° 4	22°43	16°29	S 26
M27	2 22 1	3°43'31	17°35	18°50	25°52	10°37	29°55	4°18	24°31	20°44	22°11	16°43	16° 1	22°50	16°26	M27
T 28	2 25 58	4°43'24	19545	18°11	27° 4	11°21	0요 7	4°24	24°34	20°45	22°13	16°37	15°57	22°56	16°23	T 28
W29	2 29 54	5°43'19	15°24	17°23	28°16	12° 5	0°19	4°31	24°38	20°47	22°15	16°33	15°54	23° 3	16°20	W29
T 30	2 33 51	6°43'17	28°35	16°27	29°28	12°48	0°30	4°38	24°41	20°49	22°18	16°32	15°51	23°10	16°17	T 30
F 31	2 37 47	7 <b>M</b> .43'16	$11\Omega_{20}$	15 <b>M</b> 22	0 <b>ჲ</b> 40	13 <b>×</b> 32	0 <u>ჲ</u> 42	4 <b>≏</b> 45	24M45	20 <b>×</b> 751	22 <b>≏</b> 20	$16\Omega_{32}$	15 <b>Ω</b> 48	23 <b>≏</b> 17	16814	F 31

Day	0	D	ğ	φ	♂	4	ħ	)∤(	¥	Р	w v	Ç	Š.
	decl	decl lat	decl lat	decl lat	lecl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
W 1 T 2 F 3	3 s10 3 33 3 56	19 31 2 33 18 13 1 30	14 46 2	0 12 41 0n 2 19 7 12 21 0 6 19	20 0 43	2 3 3 1 3 2 58 1 3	1 23 2 4 1 20 2 4	18 20 0 14 18 21 0 14	21 s44 1n20 21 45 1 20 21 45 1 20	7n10 16n36 7 9 16 36 7 8 16 36	15 7 15 38 15 6 15 39	3 s 3 3 1 3 3 6 1 3 3 8 1	5 6 2 2 5 5 2 3
S 4 S 5 M 6 T 7 W 8	4 19 4 42 5 5 5 28 5 51	13 14 0n41 9 51 1 44 6 7 2 42	15 48 2 2 16 17 2 2	2 10 59 0 22 20	41 0 44 52 0 44 3 0 45	2 48 1 3 2 43 1 4 2 38 1 4	1 14 2 5 1 11 2 5 1 9 2 5	18 22 0 14 18 23 0 14 18 24 0 14	21 45 1 20 21 45 1 20 21 45 1 20 21 45 1 20 21 45 1 20	7 5 16 36 7 4 16 36	15 6 15 41 15 7 15 42	3 40 1 3 42 1 3 44 1 3 46 1 3 48 1	5 4 2 3 5 3 2 3 5 2 2 3
T 9 F 10 S 11	6 14 6 37 7 0 7 22	1 s 5 2 4 1 2 5 4 9 4 4 2 9 3 3 4 5 9	17 39 2 4	3 10 16 0 29 20 8 9 53 0 33 20 3 9 31 0 37 20	23 0 46 33 0 46 43 0 47	2 28 1 4 2 23 1 4 2 18 1 4	1 3 2 5 1 0 2 5 0 57 2 5	18 25 0 14 18 26 0 14 18 27 0 14	21 45 1 20 21 46 1 20 21 46 1 20 21 46 1 20	7 2 16 35 7 1 16 35 7 0 16 35	15 13 15 45 15 17 15 46 15 20 15 47 15 24 15 48	3 50 1 3 53 1 3 55 1 3 57 1	5 0 2 4 4 59 2 4 4 59 2 4
M13 T 14 W15 T 16 F 17 S 18	7 45 8 7 8 30 8 52 9 14	15 48 4 54 18 1 4 32 19 27 3 57 19 58 3 10 19 29 2 13	19 9 3 19 27 3 19 44 3 19 59 3 1	1 8 45 0 44 2: 5 8 22 0 47 2: 7 7 58 0 50 2: 0 7 34 0 53 2: 1 7 10 0 56 2:	2 0 48 12 0 48 21 0 49 30 0 49 39 0 50	2 9 1 4 2 4 1 4 1 59 1 4 1 54 1 4 1 49 1 5	0 52 2 5 0 49 2 5 0 46 2 5 0 43 2 6 0 41 2 6	18 29 0 14 18 29 0 14 18 30 0 14 18 31 0 14 18 32 0 14	21 46 1 20 21 46 1 20 21 46 1 20 21 46 1 20 21 47 1 19 21 47 1 19	6 59 16 35 6 58 16 35 6 57 16 35 6 56 16 35 6 55 16 35	15 27 15 49 15 29 15 50 15 31 15 51 15 32 15 52 15 32 15 53 15 32 15 54	3 59 1- 4 1 1- 4 3 1- 4 5 1- 4 7 1-	4 57 2 4 4 56 2 4 4 55 2 4 4 54 2 5 4 53 2 5
S 19 M20 T 21 W22 T 23 F 24 S 25		15 20 0s 5 11 45 1 19 7 22 2 30 2 26 3 32 2n45 4 21 7 48 4 52	20 32 3 1 20 38 3 1 20 41 3 20 41 3	2 6 20 1 2 2 1 5 55 1 5 22 9 5 30 1 8 22 6 5 5 1 11 2 2 4 39 1 13 22 6 4 13 1 16 22	56 0 51 4 0 51 12 0 52 20 0 52 28 0 53 35 0 53	1 40 1 5 1 35 1 5 1 30 1 5 1 25 1 5 1 21 1 5 1 16 1 5	0 35 2 6 0 32 2 6 0 30 2 6 0 27 2 6 0 24 2 6 0 22 2 6	18 34 0 14 18 34 0 14 18 35 0 14 18 36 0 14 18 37 0 14 18 38 0 14	21 47 1 19 21 48 1 19 21 48 1 19	6 54 16 35 6 53 16 35 6 52 16 35 6 51 16 36 6 50 16 36 6 50 16 36	15 32 15 55 15 32 15 56 15 33 15 57 15 35 15 58 15 38 15 59 15 41 15 59 15 44 16 0	4 12 14 14 14 16 14 18 14 20 14 22 14	4 52 2 5 4 51 2 5 4 50 2 5 4 49 2 5 4 48 2 6 4 47 2 6
S 26 M27 T 28 W29 T 30 F 31	12 46 13 6	18 33 4 19 19 52 3 33 19 57 2 37 18 55 1 34	19 49 2 3 19 27 2 1	0 2 55 1 23 22 8 2 28 1 25 23 4 2 1 1 27 23 8 1 35 1 29 23	3 0 55 9 0 55 15 0 56	1 2 1 6 0 58 1 6 0 53 1 6 0 49 1 6	0 14 2 7 0 11 2 7 0 9 2 7 0 6 2 7	18 40 0 14 18 41 0 14 18 42 0 14 18 43 0 14	21 48 1 19 21 48 1 19 21 48 1 19 21 48 1 19 21 49 1 19 21 s49 1n19	6 48 16 36 6 47 16 36 6 47 16 36 6 46 16 36 6 45 16 36 6n45 16n37	15 50 16 2 15 51 16 3 15 52 16 4	4 27 14 29 14 31 14 33 14 35 14 35 15 4 37 15	4 44 2 6 4 43 2 6 4 42 2 6 4 41 2 6

Julian Day Number = 2444513.5, Delta T = 51.18 sec Ecliptic obliquity =  $23^{\circ}26'24$ , Nutation = -  $0^{\circ}00'12$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}28'17$ , Lahiri =  $23^{\circ}35'17$ 

NOVEMBER 1980 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ	)∤(	并	Р	n	v	Ç	Ŗ	Day
S 1	2 41 44	8 <b>M</b> 43'18	23 <b>Ω</b> 44	14°R12	1 <b>≏</b> 52	14 <b>×</b> 16	0 <b>ჲ</b> 53	4 <b>₽</b> 51	24 <b>M</b> 49	20 <b>х</b> 52	22 <b>£</b> 22	16°R32	15 <b>Ω</b> 45	23 <b>º</b> 23	16°R11	S 1
S 2	2 45 40	9°43'21	5 <b>m</b> 54	12 <b>M</b> 56	3° 5	15° 1	1° 5	4°58	24°52	20°54	22°25	16 <b>N</b> 31	15°41	23°30	16 <b>8</b> 8	S 2
M 3	2 49 37	10°43'27	17°52	11°39	4°17	15°45	1°16	5° 4	24°56	20°56	22°27	16°27	15°38	23°37	16° 5	M 3
T 4	2 53 34	11°43'35	29°45	10°20	5°30	16°29	1°28	5°11	25° 0	20°58	22°29	16°21	15°35	23°43	16° 2	T 4
W 5	2 57 30	12°43'45	11 <b>≏</b> 35	9° 4	6°42	17°13	1°39	5°17	25° 3	21° 0	22°31	16°12	15°32	23°50	15°59	W 5
T 6	3 1 27	13°43'57	23°25	7°53	7°55	17°58	1°50	5°24	25° 7	21° 2	22°34	16° 0	15°29	23°57	15°56	T 6
F 7	3 5 23	14°44'10	5 <b>M</b> .18	6°49	9° 8	18°42	2° 1	5°30	25°11	21° 3	22°36	15°46	15°26	24° 4	15°53	F 7
S 8	3 9 20	15°44'26	17°15	5°53	10°21	19°27	2°12	5°36	25°14	21° 5	22°38	15°31	15°22	24°10	15°50	S 8
S 9	3 13 16	16°44'43	29°17	5° 8	11°33	20°11	2°23	5°43	25°18	21° 7	22°41	15°16	15°19	24°17	15°47	S 9
M10	3 17 13	17°45'02	11 <b>×</b> 25	4°34	12°46	20°56	2°34	5°49	25°22	21° 9	22°43	15° 3	15°16	24°24	15°44	M10
T 11	3 21 9	18°45'23	23°41	4°11	14° 0	21°41	2°45	5°55	25°25	21°11	22°45	14°52	15°13	24°30	15°41	T 11
W12	3 25 6	19°45'45	6 වි	4°D 0	15°13	22°26	2°56	6° 1	25°29	21°13	22°47	14°44	15°10	24°37	15°38	W12
T 13	3 29 3	20°46'09	18°42	4° 1	16°26	23°11	3° 6	6° 7	25°33	21°15	22°49	14°39	15° 6	24°44	15°35	T 13
F 14	3 32 59	21°46'34	1≈32	4°12	17°39	23°55	3°17	6°13	25°36	21°17	22°52	14°37	15° 3	24°51	15°32	F 14
S 15	3 36 56	22°47'01	14°39	4°33	18°52	24°40	3°27	6°19	25°40	21°19	22°54	14°37	15° 0	24°57	15°29	S 15
S 16	3 40 52	23°47'28	28° 6	5° 4	20° 6	25°25	3°38	6°25	25°44	21°21	22°56	14°37	14°57	25° 4	15°26	S 16
M17	3 44 49	24°47'57	11 <b>米</b> 56	5°43	21°19	26°11	3°48	6°31	25°48	21°23	22°58	14°36	14°54	25°11	15°23	M17
T 18	3 48 45	25°48'27	26°10	6°30	22°33	26°56	3°58	6°36	25°51	21°25	23° 0	14°33	14°51	25°17	15°20	T 18
W19	3 52 42	26°48'59	10 <b>Ƴ</b> 47	7°23	23°46	27°41	4° 8	6°42	25°55	21°28	23° 2	14°28	14°47	25°24	15°17	W19
T 20	3 56 38	27°49'31	25°42	8°22	25° 0	28°26	4°18	6°48	25°59	21°30	23° 4	14°19	14°44	25°31	15°14	T 20
F 21	4 0 35	28°50'05	10849	9°26	26°14	29°11	4°28	6°53	26° 3	21°32	23° 6	14° 9	14°41	25°38	15°11	F 21
S 22	4 4 32	29°50'41	25°57	10°34	27°27	29°57	4°38	6°59	26° 6	21°34	23° 8	13°58	14°38	25°44	15° 8	S 22
S 23	4 8 28	0 <b>₹</b> 51'18	10耳56	11°46	28°41	0 <b>る</b> 42	4°48	7° 4	26°10	21°36	23°10	13°47	14°35	25°51	15° 5	S 23
M24	4 12 25	1°51'56	25°37	13° 2	29°55	1°28	4°57	7° 9	26°14	21°38	23°12	13°38	14°32	25°58	15° 2	M24
T 25	4 16 21	2°52'36	9952	14°20	1 <b>m</b> 9	2°13	5° 7	7°15	26°17	21°40	23°14	13°31	14°28	26° 4	14°59	T 25
W26	4 20 18	3°53'18	23°38	15°40	2°23	2°59	5°16	7°20	26°21	21°43	23°16	13°27	14°25	26°11	14°56	W26
T 27	4 24 14	4°54'01	6 <b>Ω</b> 56	17° 3	3°37	3°44	5°26	7°25	26°25	21°45	23°18	13°26	14°22	26°18	14°54	T 27
F 28	4 28 11	5°54'45	19°47	18°27	4°51	4°30	5°35	7°30	26°29	21°47	23°20	13°D25	14°19	26°25	14°51	F 28
S 29	4 32 7	6°55'31	2 <b>m</b> 15	19°52	6° 5	5°16	5°44	7°35	26°32	21°49	23°22	13°R26	14°16	26°31	14°48	S 29
S 30	4 36 4	7 <b>₹</b> 56'19	14 <b>m</b> 26	21 <b>M</b> .19	7 <b>ጤ</b> 19	6 <b>ට</b> 2	5 <b>₾</b> 53	7 <b>₽</b> 40	26 <b>M</b> .36	21 <b>~</b> 51	23 <b>≏</b> 24	13 <b>£</b> 26	14 <b>Ω</b> 12	26 <b>₽</b> 38	14845	S 30

Day	0	D	ţ	5	φ	♂	2	4	Ť		)į	ξ(	¥		Р	ß	Ω	Ç	Ą	5
	decl	decl lat	decl	lat de	l lat	decl lat	decl	lat	decl	lat	decl	lat	decl la	at	decl lat	decl	decl	decl	decl	lat
S 1	14 s25	14n12 Or	n38 17s15	1 s12 On4	1 1n33	23 s27 0 s5	6 0n40	1n 6	0n 1	2n 8	18 s45	0n14	21 s49	1n19	6n44 16n37	15n53	16n 7	4 s40	14n39	2 s 7
S 2	14 44	10 54 1	41 16 34	0 53 0	3 1 35	23 32 0 5	0 35	1 6	0 s 1	2 8	18 46	0 14	21 49	1 19	6 43 16 37	15 53	16 8	4 42	14 39	2 7
M 3	15 3	7 13 2	38 15 50	0 32 0s	4 1 36	23 37 0 5	7 0 31	1 7	0 4	2 8	18 47	0 14	21 49	1 19	6 43 16 37	15 54	16 9	4 44	14 38	2 7
T 4	15 21	3 16 3		0 12 0 4		23 42 0 5	7 0 26	1 7	0 6	2 8	18 47	0 14	21 49	1 19	6 42 16 37	15 56	16 10	4 46	14 37	2 7
W 5	15 40	0 s47 4	, ,			23 47 0 5	-	1 7	0 8		18 48			1 19	6 41 16 37		-	-	14 36	2 7
T 6	15 58	-	37 13 41	0 29 1 3		23 52 0 5		1 7	0 11		18 49			1 19	6 41 16 38		16 12		14 35	2 7
F 7	16 16		54 13 2			23 56 0 5			0 13		18 50			1 19	6 40 16 38		16 13	-	14 34	2 7
S 8	16 33	12 12 4	59 12 27	1 5 2 3	1 1 43	24 0 0 59	9 0 9	1 7	0 16	2 9	18 51	0 14	21 50	1 19	6 39 16 38	16 11	16 14	4 54	14 33	2 7
S 9	16 50	15 16 4	50 11 57	1 21 2 5	8 1 44	24 4 0 5	9 0 5	1 7	0 18	2 9	18 52	0 14	21 50	1 19	6 39 16 38	16 16	16 15	4 57	14 32	2 7
M10	17 7	17 43 4	29 11 33	1 36 3 2	6 1 45	24 7 1	0 0 1	1 8	0 20	2 9	18 53	0 14	21 50	1 19	6 38 16 38	16 19	16 15	4 59	14 31	2 7
T 11	17 24	19 23 3	54 11 13	1 48 3 5	3 1 46	24 10 1	0 0s 3	1 8	0 22	2 9	18 54	0 14	21 50	1 19	6 38 16 39	16 23	16 16	5 1	14 30	2 8
W12	17 41	20 10 3	8 11 0	1 58 4 2	1 1 47	24 13 1	0 8	1 8	0 25	2 9	18 55	0 14	21 51	1 19	6 37 16 39	16 25	16 17	5 3	14 29	2 8
T 13	17 57	19 57 2	12 10 52	2 6 4 4	8 1 48	24 16 1	1 0 12	1 8	0 27	2 9	18 56	0 14	21 51	1 18	6 37 16 39	16 26	16 18	5 5	14 28	2 8
F 14	18 13	18 42 1	9 10 50	2 13 5	-	24 19 1	0 16	1 8	0 29	2 10	18 56	0 14	21 51	1 18	6 36 16 39			-	14 27	2 8
S 15	18 28	16 27 0s	s 0 10 53	2 18 5 4	3 1 49	24 21 1	0 20	1 8	0 31	2 10	18 57	0 14	21 51	1 18	6 36 16 40	16 27	16 20	5 9	14 26	2 8
S 16	18 43	13 14 1	11 11 0	2 21 6			0 24	1 8	0 33	2 10	18 58	0 14	21 51	1 18	6 35 16 40	16 27	16 21	5 12	14 25	2 8
M17	18 58	9 14 2	19 11 11	2 23 6 3				1 9	0 35	2 10	18 59	0 14	21 51	1 18	6 35 16 40	16 27	16 22	5 14	14 24	2 8
T 18	19 13		21 11 25		4 1 50	-		1 9	0 38	2 10			-	1 18	6 34 16 41				14 23	2 8
W19	19 27		11 11 43						0 40	2 11			-	1 18	6 34 16 41		-		14 23	2 8
T 20	19 41		46 12 4	2 21 7 5				1 9	0 42	2 11	-		-	1 18	6 33 16 41				14 22	2 8
F 21	19 54			2 19 8 2				1 9	0 44	2 11				1 18	6 33 16 41				14 21	2 8
S 22	20 7	14 28 4	55 12 51	2 16 8 5	1 1 50	24 29 1	0 47	1 10	0 46	2 11	19 4	0 14	21 52	1 18	6 32 16 42	16 38	16 27	5 24	14 20	2 8
S 23	20 20	17 39 4	28 13 16	2 12 9	8 1 50	24 30 1	0 50	1 10	0 48	2 11	19 4	0 14	21 52	1 18	6 32 16 42	16 41	16 28	5 27	14 19	2 8
M24	20 32	19 37 3	45 13 43	2 7 9 4	4 1 50	24 29 1	0 54	1 10	0 49	2 12	19 5	0 14	21 53	1 18	6 32 16 42	16 44	16 28	5 29	14 18	2 8
T 25	20 44	20 17 2	48 14 11	-	0 1 50	24 29 1	0 58	1 10	0 51	2 12	19 6	0 14	21 53	1 18	6 31 16 43	16 46	16 29	5 31	14 17	2 8
	20 56	-	43 14 40				4 1 1	1 10	0 53	2 12				1 18	6 31 16 43				14 16	2 8
T 27	21 7		34 15 9	1 51 11	1 1 49		4 1 5	1 10	0 55	2 12	19 8	0 14	21 53	1 18	6 31 16 44	16 48	16 31	5 35	14 15	2 8
F 28	_		n34 15 38	1 45 11 2			4 1 8		0 57					1 18	6 30 16 44				14 15	2 9
S 29	21 28	12 12 1	39 16 7	1 39 11 3	2 1 48	24 25 1	5 1 12	1 11	0 59	2 13	19 10	0 14	21 53	1 18	6 30 16 44	16 47	16 33	5 39	14 14	2 9
S 30	21 s38	8n33 2r	n37 16s37	1n32 12s	6 1n47	24 s23 1 s	5 1s15	1n11	1s 0	2n13	19 s10	0n14	21 s53	1n18	6n30 16n45	16n47	16n34	5 s42	14n13	2s 9

Julian Day Number = 2444544.5, Delta T = 51.25 sec Ecliptic obliquity =  $23^{\circ}26'24$ , Nutation =  $-0^{\circ}00'13$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}28'21$ , Lahiri =  $23^{\circ}35'22$ 

DECEMBER 1980 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ	)ұ(	并	В	n	Ω	Ç	ķ	Day
M 1	4 40 1	8 <b>∡</b> 757'07	26 <b>m</b> 25	22 <b>M</b> 47	8M34	6 <b>ප</b> 47	6 <b>♀</b> 2	7 <b>Ω</b> 45	26M40	21 <b>×</b> 754	23 <b>₾</b> 26	13°R24	14Ω 9	26 <b>Ω</b> 45	14°R43	M 1
T 2	4 43 57	9°57'58	8 <u>م</u> 17	24°16	9°48	7°33	6°11	7°49	26°43	21°56	23°27	13 <b>Q</b> 20	14° 6	26°51	14840	T 2
W 3	4 47 54	10°58'50	20° 7	25°45	11° 2	8°19	6°19	7°54	26°47	21°58	23°29	13°13	14° 3	26°58	14°37	W 3
T 4	4 51 50	11°59'43	1 <b>M</b> 59	27°15	12°16	9° 5	6°28	7°59	26°51	22° 0	23°31	13° 4	14° 0	27° 5	14°35	T 4
F 5	4 55 47	13° 0'37	13°55	28°45	13°31	9°51	6°36	8° 3	26°54	22° 2	23°33	12°53	13°57	27°12	14°32	F 5
S 6	4 59 43	14° 1'33	25°58	0 <b>才</b> 16	14°45	10°37	6°44	8° 7	26°58	22° 5	23°34	12°41	13°53	27°18	14°30	S 6
S 7	5 3 40	15° 2'29	8 <b>√</b> 10	1°47	16° 0	11°24	6°53	8°12	27° 1	22° 7	23°36	12°30	13°50	27°25	14°27	S 7
M 8	5 7 36	16° 3'27	20°31	3°19	17°14	12°10	7° 1	8°16	27° 5	22° 9	23°38	12°19	13°47	27°32	14°25	M 8
T 9	5 11 33	17° 4'26	3 <b>궁</b> 3	4°51	18°29	12°56	7° 8	8°20	27° 8	22°11	23°39	12°11	13°44	27°38	14°22	T 9
W10	5 15 30	18° 5'25	15°44	6°23	19°43	13°42	7°16	8°24	27°12	22°14	23°41	12° 5	13°41	27°45	14°20	W10
T 11	5 19 26	19° 6'25	28°36	7°55	20°58	14°29	7°24	8°28	27°16	22°16	23°43	12° 2	13°38	27°52	14°17	T 11
F 12	5 23 23	20° 7'26	11≈39	9°27	22°12	15°15	7°31	8°32	27°19	22°18	23°44	12°D 1	13°34	27°59	14°15	F 12
S 13	5 27 19	21° 8'28	24°56	11° 0	23°27	16° 1	7°39	8°36	27°23	22°21	23°46	12° 1	13°31	28° 5	14°13	S 13
S 14	5 31 16	22° 9'30	8 <b>)</b> €27	12°32	24°41	16°48	7°46	8°40	27°26	22°23	23°47	12° 2	13°28	28°12	14°11	S 14
M15	5 35 12	23°10'32	22°13	14° 5	25°56	17°34	7°53	8°43	27°30	22°25	23°49	12°R 3	13°25	28°19	14° 8	M15
T 16	5 39 9	24°11'35	6 <b>Υ</b> 16	15°38	27°11	18°21	8° 0	8°47	27°33	22°27	23°50	12° 2	13°22	28°25	14° 6	T 16
W17	5 43 5	25°12'38	20°34	17°11	28°26	19° 7	8° 7	8°50	27°36	22°30	23°52	12° 0	13°18	28°32	14° 4	W17
T 18	5 47 2	26°13'41	5 <b>8</b> 6	18°44	29°40	19°54	8°13	8°54	27°40	22°32	23°53	11°55	13°15	28°39	14° 2	T 18
F 19	5 50 59	27°14'45	19°47	20°17	0 <b>₹</b> 55	20°41	8°20	8°57 9° 0	27°43	22°34 22°36	23°54	11°49	13°12 13° 9	28°46	14° 0	F 19 S 20
S 20	5 54 55	28°15'49	4 <b>Ⅱ</b> 30	21°51	2°10	21°27	8°26		27°47		23°56	11°42		28°52	13°58	
S 21	5 58 52	29°16'54	19° 8	23°25	3°25	22°14	8°32	9° 3	27°50	22°39	23°57	11°35	13° 6	28°59	13°56	S 21
M22	6 2 48	0 <b>궁</b> 17'59	3933	24°58	4°39	23° 1	8°39	9° 6	27°53	22°41	23°58	11°29	13° 3	29° 6	13°54	M22
T 23	6 6 45	1°19'05	17°39	26°32	5°54	23°48	8°44	9° 9	27°56	22°43	23°59	11°24	12°59	29°13	13°52	T 23
W24	6 10 41	2°20'11	1023	28° 7	7° 9	24°34	8°50	9°12	28° 0	22°45	24° 1	11°22	12°56	29°19	13°51	W24
T 25	6 14 38	3°21'17	14°41 27°36	29°41	8°24 9°39	25°21 26° 8	8°56 9° 1	9°14 9°17	28° 3 28° 6	22°48 22°50	24° 2 24° 3	11°D22 11°23	12°53 12°50	29°26 29°33	13°49 13°47	T 25 F 26
F 26 S 27	6 18 34 6 22 31	4°22'24 5°23'32	10 <b>m</b> ) 9	1 <b>궁</b> 16 2°51	10°54	26° 8 26°55	9° 1	9°17 9°19	28° 6 28° 9	22°50 22°52	24° 3	11°23	12°50 12°47	29°33 29°39	13°47 13°46	S 27
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S 28	6 26 28	6°24'40	22°25	4°26	12° 9	27°42	9°12	9°22	28°12	22°54	24° 5	11°26	12°44	29°46	13°44	S 28
M29	6 30 24	7°25'48	4 <u>₽</u> 27	6° 1	13°23	28°29	9°17	9°24	28°16	22°57	24° 6	11°R27	12°40	29°53	13°43	M29
T 30	6 34 21	8°26'57	16°22	7°37	14°38	29°16	9°21	9°26	28°19	22°59	24° 7	11°27	12°37	29°59	13°41	T 30
W31	6 38 17	9 <b>ප</b> 28'07	28 <b>≏</b> 13	9 <b>ට</b> 13	15 <b>₹</b> 53	0≈ 3	9 <b>≏</b> 26	9 <b>≙</b> 28	28 <b>M</b> 22	23 🖍 1	24 <b>♀</b> 8	11 <b>\O</b> 25	12 <b>\O</b> 34	OM 6	13840	W31

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S 21 M22 T 23 W24 T 25 F 26 S 27	23 26 23 26 23 26 23 25 23 24 23 22 23 20	20 13 3 10 20 12 2 5 18 58 0 54 16 43 0n18 13 40 1 27	24 20 0 5 24 29 1 24 36 1 1 24 42 1 1 24 47 1 2	5 20 6 1 12 2 0 20 21 1 10 2 6 20 35 1 8 2	2 35 1 8 2 27 1 8 2 19 1 8 2 11 1 8 2 2 1 8	2 22 1 17 2 24 1 17	1 29 2 18 1 30 2 19 1 31 2 19 1 32 2 19 1 32 2 20	19 28 0 13 19 29 0 13 19 30 0 13 19 30 0 13 19 31 0 13	21 56 1 18 21 56 1 18 21 57 1 18	6 27 16 55 6 27 16 55 6 27 16 56 6 27 16 56 6 27 16 57	17 19 16 53 17 20 16 54 17 22 16 55 17 22 16 56 17 22 16 57 17 22 16 58 17 22 16 59	6 29 6 31 6 33 6 35 6 37	13 58 2 9 13 57 2 9 13 57 2 9 13 56 2 9 13 56 2 9
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Julian Day Number = 2444574.5, Delta T = 51.31 sec Ecliptic obliquity =  $23^{\circ}26'24$ , Nutation =  $-0^{\circ}00'13$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $24^{\circ}28'25$ , Lahiri =  $23^{\circ}35'26$