

Astrodienst Ephemeris Tables for the year 1978

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 1978 00:00 UT

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Day	Sid.t	0	D	ğ	·	ð	4	ħ)∤(并	В	r	v	Ç	ķ	Day
S 1	6 41 10	10 ට 12'45	22 m/15	21°D 9	5 8	9°R 3	29°R52	0°R10	15 M .19	16 ∡ 745	16 ₽ 36	10°R21	10₾33	28 I 7	1°R10	S 1
M 2	6 45 7	11°13'54	5 ₾ 7	21 🗷 14	6°23	8 Ω 47	29∏44	0 Mp 7	15°21	16°47	16°37	10 ♀ 20	10°30	28°14	1 8 9	M 2
T 3	6 49 3	12°15'03	18°20	21°27	7°39	8°31	29°36	0° 5	15°24	16°49	16°37	10°20	10°27	28°21	1°8	T 3
W 4	6 53 0	13°16'13	1 M .58	21°49	8°54	8°13	29°29	0° 3	15°26	16°51	16°38	10°19	10°24	28°27	1°8	W 4
T 5	6 56 56	14°17'23	16° 3	22°17	10°10	7°55	29°21	0° 0	15°28	16°53	16°38	10°17	10°21	28°34	1°8	T 5
F 6	7 0 53	15°18'33	0 ∡ 35	22°52	11°25	7°36	29°13	29 N 57	15°31	16°55	16°39	10°11	10°17	28°41	1° 7	F 6
S 7	7 4 49	16°19'44	15°30	23°32	12°41	7°17	29° 6	29°55	15°33	16°57	16°39	10° 3	10°14	28°48	1° 7	S 7
S 8	7 8 46	17°20'54	0 る 42	24°18	13°56	6°57	28°59	29°52	15°35	16°59	16°40	9°52	10°11	28°54	1° 7	S 8
M 9	7 12 43	18°22'05	16° 0	25° 8	15°12	6°37	28°51	29°49	15°38	17° 1	16°40	9°41	10° 8	29° 1	1° 7	M 9
T 10	7 16 39	19°23'15	1≈12	26° 2	16°27	6°16	28°44	29°46	15°40	17° 3	16°40	9°29	10° 5	29° 8	1° 7	T 10
W11	7 20 36	20°24'25	16° 9	27° 0	17°43	5°54	28°37	29°43	15°42	17° 5	16°41	9°19	10° 2	29°15	1°D 6	W11
T 12	7 24 32	21°25'34	0) 42	28° 1	18°58	5°32	28°30	29°40	15°44	17° 7	16°41	9°12	9°58	29°21	1° 6	T 12
F 13	7 28 29	22°26'43	14°45	29° 4	20°14	5°10	28°23	29°36	15°46	17° 9	16°41	9° 7	9°55	29°28	1° 7	F 13
S 14	7 32 25	23°27'51	28°18	0 궁 11	21°29	4°47	28°16	29°33	15°48	17°11	16°41	9° 5	9°52	29°35	1° 7	S 14
S 15	7 36 22	24°28'58	11 Y 23	1°20	22°45	4°24	28°10	29°29	15°50	17°13	16°41	9°D 5	9°49	29°41	1° 7	S 15
M16	7 40 18	25°30'05	24° 3	2°31	24° 0	4° 0	28° 3	29°26	15°52	17°15	16°42	9°R 5	9°46	29°48	1° 7	M16
T 17	7 44 15	26°31'11	6 8 23	3°43	25°16	3°37	27°57	29°22	15°54	17°16	16°42	9° 4	9°43	29°55	1° 7	T 17
W18	7 48 12	27°32'16	18°30	4°58	26°31	3°13	27°51	29°19	15°55	17°18	16°42	9° 2	9°39	099 2	1°8	W18
T 19	7 52 8	28°33'20	0Ⅲ27	6°14	27°46	2°49	27°45	29°15	15°57	17°20	16°R42	8°58	9°36	0° 8	1°8	T 19
F 20	7 56 5	29°34'24	12°18	7°31	29° 2	2°25	27°39	29°11	15°59	17°22	16°42	8°50	9°33	0°15	1° 9	F 20
S 21	8 0 1	0≈35'26	24° 9	8°50	0≈17	2° 1	27°33	29° 7	16° 0	17°24	16°42	8°40	9°30	0°22	1° 9	S 21
S 22	8 3 58	1°36'28	6 9 5 1	10°10	1°33	1°37	27°27	29° 3	16° 2	17°25	16°42	8°28	9°27	0°28	1°10	S 22
M23	8 7 54	2°37'29	17°57	11°32	2°48	1°13	27°22	28°59	16° 3	17°27	16°41	8°15	9°23	0°35	1°11	M23
T 24	8 11 51	3°38'30	29°59	12°54	4° 4	0°49	27°17	28°55	16° 5	17°29	16°41	8° 2	9°20	0°42	1°11	T 24
W25	8 15 47	4°39'29	12 0 7	14°17	5°19	0°26	27°12	28°51	16° 6	17°31	16°41	7°50	9°17	0°49	1°12	W25
T 26	8 19 44	5°40'28	24°22	15°42	6°34	0° 2	27° 7	28°47	16° 8	17°32	16°41	7°41	9°14	0°55	1°13	T 26
F 27	8 23 41	6°41'26	6 m 46	17° 7	7°50	29939	27° 2	28°42	16° 9	17°34	16°41	7°34	9°11	1° 2	1°14	F 27
S 28	8 27 37	7°42'23	19°20	18°33	9° 5	29°16	26°57	28°38	16°10	17°36	16°40	7°29	9° 8	1° 9	1°15	S 28
S 29	8 31 34	8°43'19	2 ♀ 4	20° 0	10°20	28°53	26°53	28°34	16°12	17°37	16°40	7°D28	9° 4	1°16	1°16	S 29
M30	8 35 30	9°44'15	15° 3	2 <u>1</u> °28	11°36	28°30	26°49	28°29	16°13	17°39	16°40	7°28	9° 1	1°22	1°17	M30
T 31	8 39 27	10≈45'10	28 ≏ 17	22 궁 57	12≈51	289 8	26 Ⅱ 45	28 N 25	16 M .14	17 ∡ 740	16 ≏ 39	7 ≏ 28	8 ≏ 58	19929	1818	T 31

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S 1 M 2	23 s 3 22 58	2 s27 0 28	20 16 2 5	59 23 s38 0s18 21nd 54 23 37 0 20 21 3	0 3 54		12 46 1 25	16 4 0 23	21 s22 1n25 21 22 1 25	9n12 17n 1 9 12 17 2	4 6	4 9 1	8n24 11n1 8 24 11 1	8 0 37
T 3 W 4 T 5	22 40	10 25 1 52 13 49 2 57	20 31 2 4 20 40 2 3	33 <mark>23 30</mark> 0 27 22	3 3 59 0 4 1	23 13 0 14 23 13 0 13	12 47 1 26 12 48 1 26 12 49 1 26	16 5 0 23 16 6 0 23	21 23 1 25	9 13 17 2 9 13 17 3 9 13 17 3	4 5 4 5 4 4	4 7 1 4 6 1	8 24 11 1 8 24 11 1 8 24 11 1	7 0 37 7 0 37
F 6 S 7	_			25 23 26 0 29 22 17 23 21 0 32 22 3			12 50 1 26 12 51 1 26		21 23 1 25 21 23 1 25	9 14 17 4 9 14 17 5			8 24 11 1 8 23 11 1	
	22 11	17 32 4 59	21 22 1 5	8 23 16 0 34 22 3 59 23 10 0 36 22 3 50 23 3 0 38 22 4	8 4 9	23 13 0 13	12 52 1 27 12 54 1 27 12 55 1 27	16 9 0 23	21 23 1 25 21 23 1 25 21 24 1 25	9 14 17 5 9 15 17 6 9 15 17 6	3 50	4 1 1	8 23 11 1 8 23 11 1 8 23 11 1	7 0 37
T 12 F 13	21 53 21 44 21 34 21 24	8 18 3 8 4 5 2 5	21 54 1 3 22 4 1 2	40 22 56 0 40 22 : 31 22 48 0 42 22 : 22 22 39 0 44 23 12 22 29 0 46 23	9 4 14 6 4 16	23 13 0 12	12 57 1 27 12 59 1 28	16 11 0 23 16 11 0 23	21 24 1 25 21 24 1 25 21 24 1 25 21 24 1 25	9 16 17 7 9 16 17 8 9 17 17 8 9 17 17 9	3 39 3 37	3 57 1 3 56 1	8 23 11 1 8 23 11 1 8 23 11 1 8 23 11 1	6 0 38 6 0 38
M16 T 17 W18 T 19 F 20	-	8 7 1 19 11 27 2 20 14 14 3 13 16 23 3 57 17 48 4 31	22 31 0 5 22 38 0 4 22 45 0 3 22 50 0 2 22 55 0 1	3 22 19 0 48 23 3 54 22 8 0 50 23 3 45 21 56 0 52 23 3 66 21 44 0 54 23 4 77 21 31 0 56 23 4 19 21 18 0 58 23 3 10 21 4 1 0 24	7 4 20 4 4 21 1 4 22 7 4 23 4 4 23	23 14 0 11 23 14 0 11 23 14 0 11	13 3 1 28 13 4 1 28 13 6 1 29 13 7 1 29 13 9 1 29	16 13 0 23 16 13 0 23 16 14 0 23 16 14 0 23 16 15 0 23	21 24 1 25 21 25 1 26 21 25 1 26	9 17 17 9 9 18 17 10 9 18 17 10 9 19 17 11 9 20 17 12 9 20 17 12 9 21 17 13	3 36 3 36 3 35 3 33 3 30	3 52 1 3 51 1 3 50 1 3 48 1 3 47 1	8 22 11 1 8 22 11 1	6 0 38 6 0 38 7 0 38 7 0 38 7 0 38
S 22 M23 T 24 W25 T 26 F 27 S 28		18 17 5 2 17 19 4 58 15 35 4 40 13 9 4 10 10 7 3 28 6 37 2 36	23 1 0 23 2 0s 23 3 0 1 23 2 0 2 23 0 0 2 22 57 0 3	2 20 49 1 1 24 6 20 33 1 3 24 14 20 17 1 5 24 22 20 1 1 6 24 2 29 19 43 1 8 24 2	6 4 25 2 4 25 8 4 26 3 4 26 8 4 26 3 4 26	23 14 0 11 23 14 0 11 23 14 0 10 23 14 0 10 23 14 0 10 23 14 0 10	13 12 1 29 13 13 1 29 13 15 1 30 13 17 1 30 13 18 1 30 13 20 1 30	16 16 0 23 16 16 0 24 16 17 0 24 16 17 0 24 16 17 0 24 16 18 0 24	21 25 1 26	9 21 17 13 9 22 17 14 9 22 17 15 9 23 17 15 9 24 17 16 9 24 17 16 9 25 17 17	3 22 3 16 3 11 3 7 3 3 3 0	3 45 1 3 43 1 3 42 1 3 41 1 3 40 1 3 38 1	8 21 11 1 8 21 11 1	7 0 38 7 0 38 8 0 38 8 0 38 8 0 38 8 0 38
S 29 M30 T 31	18 5 17 49 17 s32	5 18 0n41		50 18 48 1 12 24 4 57 18 29 1 13 24 4 3 18s 9 1s14 24n:	7 4 25	23 15 0 9	13 25 1 31	16 19 0 24	21 26 1 26 21 26 1 26 21 s27 1n26	9 25 17 17 9 26 17 18 9n27 17n18	2 58	3 35 1	8 20 11 1 8 20 11 1 8n20 11n2	9 0 38

Julian Day Number = 2443509.5, Delta T = 48.54 sec Ecliptic obliquity = $23^{\circ}26'22$, Nutation = $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}25'59$, Lahiri = $23^{\circ}32'59$

FEBRUARY 1978 00:00 UT

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W 1	8 43 23	11≈46'04	11 M 51	24중26	14≈ 6	27°R47	26°R41	28°R20	16 M .15	17 ∡ 742	16°R39	7°R29	8 ≏ 55	1936	1819	W 1
T 2	8 47 20	12°46'58	25°45	25°56	15°22	279526	26 II 37	28 Q 16	16°16	17°43	16 ₽ 38	7 ≙ 28	8°52	1°42	1°20	T 2
F 3	8 51 16	13°47'51	10 × 0	27°27	16°37	27° 5	26°34	28°11	16°17	17°45	16°38	7°25	8°48	1°49	1°22	F 3
S 4	8 55 13	14°48'43	24°34	28°59	17°52	26°45	26°30	28° 6	16°18	17°46	16°37	7°20	8°45	1°56	1°23	S 4
S 5	8 59 10	15°49'34	9 ට 23	0≈31	19° 8	26°26	26°27	28° 2	16°19	17°48	16°37	7°13	8°42	2° 3	1°24	S 5
M 6	9 3 6	16°50'25	24°21	2° 5	20°23	26° 7	26°24	27°57	16°19	17°49	16°36	7° 5	8°39	2° 9	1°26	M 6
T 7	9 7 3	17°51'14	9≈17	3°39	21°38	25°49	26°22	27°52	16°20	17°50	16°35	6°57	8°36	2°16	1°27	T 7
W 8	9 10 59	18°52'02	24° 3	5°13	22°53	25°31	26°19	27°47	16°21	17°52	16°35	6°50	8°33	2°23	1°29	W 8
T 9	9 14 56	19°52'48	8) (31	6°49	24° 9	25°14	26°17	27°43	16°21	17°53	16°34	6°45	8°29	2°30	1°30	T 9
F 10	9 18 52	20°53'33	22°36	8°25	25°24	24°58	26°15	27°38	16°22	17°54	16°33	6°42	8°26	2°36	1°32	F 10
S 11	9 22 49	21°54'17	6 Ƴ 14	10° 2	26°39	24°42	26°13	27°33	16°22	17°56	16°33	6°D41	8°23	2°43	1°34	S 11
S 12	9 26 45	22°54'59	19°25	11°40	27°54	24°28	26°11	27°28	16°23	17°57	16°32	6°41	8°20	2°50	1°36	S 12
M13	9 30 42	23°55'40	2811	13°19	29°10	24°14	26° 9	27°23	16°23	17°58	16°31	6°43	8°17	2°56	1°37	M13
T 14	9 34 39	24°56'18	14°37	14°59	0 ∺ 25	24° 1	26° 8	27°18	16°24	17°59	16°30	6°44	8°14	3° 3	1°39	T 14
W15	9 38 35	25°56'56	26°47	16°39	1°40	23°48	26° 7	27°14	16°24	18° 0	16°29	6°R45	8°10	3°10	1°41	W15
T 16	9 42 32	26°57'31	8 Ⅱ 46	18°21	2°55	23°36	26° 6	27° 9	16°24	18° 1	16°28	6°44	8° 7	3°17	1°43	T 16
F 17	9 46 28	27°58'05	20°39	20° 3	4°10	23°26	26° 5	27° 4	16°24	18° 2	16°27	6°41	8° 4	3°23	1°45	F 17
S 18	9 50 25	28°58'37	2930	21°46	5°25	23°16	26° 5	26°59	16°24	18° 3	16°26	6°37	8° 1	3°30	1°47	S 18
S 19	9 54 21	29°59'07	14°24	23°30	6°40	23° 6	26° 5	26°54	16°24	18° 4	16°25	6°31	7°58	3°37	1°49	S 19
M20	9 58 18	0 ∺ 59'36	26°24	25°15	7°55	22°58	26°D 4	26°49	16°R24	18° 5	16°24	6°24	7°54	3°43	1°51	M20
T 21	10 2 14	2° 0'03	8 Ω 32	27° 1	9°10	22°50	26° 4	26°45	16°24	18° 6	16°23	6°18	7°51	3°50	1°54	T 21
W22	10 611	3° 0'28	20°50	28°47	10°25	22°43	26° 5	26°40	16°24	18° 7	16°22	6°12	7°48	3°57	1°56	W22
T 23	10 10 8	4° 0'51	3 m 19	0 ∺ 35	11°40	22°37	26° 5	26°35	16°24	18° 8	16°21	6° 7	7°45	4° 4	1°58	T 23
F 24	10 14 4	5° 1'12	16° 0	2°24	12°55	22°32	26° 6	26°30	16°24	18° 9	16°20	6° 4	7°42	4°10	2° 0	F 24
S 25	10 18 1	6° 1'32	28°53	4°14	14°10	22°28	26° 7	26°25	16°24	18°10	16°19	6° 2	7°39	4°17	2° 3	S 25
S 26	10 21 57	7° 1'51	11 ≏ 58	6° 4	15°25	22°24	26° 8	26°21	16°23	18°11	16°18	6°D 2	7°35	4°24	2° 5	S 26
M27	10 25 54	8° 2'08	25°16	7°56	16°40	22°21	26° 9	26°16	16°23	18°11	16°17	6° 3	7°32	4°31	2° 8	M27
T 28	10 29 50	9₩ 2'23	8 M .46	9)(48	17 米 55	22919	26 I I11	26 Ω 11	16ML23	18 × 12	16 ≏ 15	6 º 5	7 ≏ 29	4937	2810	T 28

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W 1	17s16	12 s38	2n53	22 s22	1s 9	17 s48	1s16	24n56	4n25	23n15	0s 9	13n28	1n31	16s19	0n24	21 s27	1n26	9n27	17n19	2 s58	3 s32	18n20	11n20	0 s38
T 2	16 58	15 29	3 49	22 11	1 15	17 27	1 17	24 59	4 24	23 15	0 9	13 30	1 31	16 20	0 24	21 27	1 26	9 28	17 20	2 58	3 31	18 19	11 20	0 38
F 3	16 41	17 28	4 32	21 59	1 21	17 6	1 18	25 3	4 23	23 15	0 9	13 32	1 31	16 20	0 24	21 27	1 26	9 29	17 20	2 57	3 30	18 19	11 21	0 38
S 4	16 23	18 21	4 59	21 46	1 26	16 44	1 19	25 6	4 23	23 15	0 9	13 34	1 31	16 20	0 24	21 27	1 26	9 29	17 21	2 55	3 28	18 19	11 21	0 38
S 5	16 6	18 1	5 6	21 31	1 31	16 21	1 20	25 9	4 22	23 15	0 9	13 35	1 31	16 20	0 24	21 27	1 26	9 30	17 21	2 52	3 27	18 19	11 22	0 39
M 6	15 47	16 27	4 53	21 15	1 36	15 58	1 21	25 12	4 21	23 15	0 8	13 37	1 32	16 20	0 24	21 27	1 26	9 31	17 22	2 49	3 26	18 19	11 22	0 39
T 7	15 29	13 46	4 19	20 58	1 40	15 35	1 22	25 14	4 20	23 15	0 8	13 39	1 32	16 21	0 24	21 27	1 26	9 32	17 22	2 46	3 25	18 18	11 23	0 39
W 8	15 10	10 13	3 29	20 39	1 44	15 11	1 22	25 16	4 19	23 15	0 8	13 41	1 32	16 21	0 24	21 27	1 26	9 32	17 23	2 43	3 23	18 18	11 23	0 39
T 9	14 51	6 7	2 26	20 19	1 48	14 47	1 23	25 18	4 18	23 15	0 8	13 42	1 32	16 21	0 24	21 27	1 26	9 33	17 23	2 41	3 22	18 18	11 24	0 39
F 10	14 32	1 47	1 15	19 57	1 51	14 22	1 24	25 20	4 16	23 15	0 8	13 44	1 32	16 21	0 24	21 28	1 26	9 34	17 24	2 39	3 21	18 18	11 24	0 39
S 11	14 12	2n31	0 2	19 34	1 55	13 57	1 24	25 22	4 15	23 16	0 8	13 46	1 32	16 21	0 24	21 28	1 26	9 35	17 24	2 39	3 20	18 18	11 25	0 39
S 12	13 53	6 32	1 s 8	19 10	1 57	13 32	1 25	25 23	4 14	23 16	0 7	13 48	1 32	16 21	0 24	21 28	1 26	9 35	17 25	2 39	3 18	18 17	11 25	0 39
M13	13 33	10 8	2 14	18 44	2 0	13 6	1 26	25 24	4 12	23 16	0 7	13 49	1 32	16 22	0 24	21 28	1 26	9 36	17 25	2 40	3 17	18 17	11 26	0 39
T 14	13 13	13 11	3 11	18 17	2 2	12 40	1 26	25 25	4 11	23 16	0 7	13 51	1 32	16 22	0 24	21 28	1 26	9 37	17 26	2 40	3 16	18 17	11 26	0 39
W15	12 52	15 34	3 58	17 49	2 4	12 14	1 26	25 26	4 9	23 16	0 7	13 53	1 32	16 22	0 24	21 28	1 26	9 38	17 26	2 41	3 15	18 17	11 27	0 39
T 16	12 32	17 15	4 34	17 19	2 5	11 47	1 27	25 26	4 8	23 16	0 7	13 55	1 33	16 22	0 24	21 28	1 26	9 38	17 27	2 40	3 13	18 16	11 28	0 39
F 17	12 11	18 9	4 58	16 47	2 6	11 20	1 27	25 27	4 6	23 16	0 7	13 56	1 33	16 22	0 24	21 28	1 26	9 39	17 27	2 39	3 12	18 16	11 28	0 39
S 18	11 50	18 15	5 10	16 15	2 6	10 52	1 27	25 27	4 4	23 16	0 7	13 58	1 33	16 22	0 24	21 28	1 26	9 40	17 28	2 38	3 11	18 16	11 29	0 39
S 19	11 29	17 34	5 7	15 41	2 6	10 25	1 27	25 27	4 2	23 16	0 6	14 0	1 33	16 22	0 24	21 28	1 27	9 41	17 28	2 35	3 9	18 16	11 30	0 39
M20	11 7	16 6	4 52	15 5	2 6	9 57	1 27	25 26	4 1	23 17	0 6	14 2	1 33	16 22	0 24	21 28	1 27	9 42	17 29	2 33	3 8	18 15	11 30	0 39
T 21	10 46	13 54	4 23	14 28	2 5	9 29	1 27	25 26	3 59	23 17	0 6	14 3	1 33	16 22	0 24	21 28	1 27	9 42	17 29	2 30	3 7	18 15	11 31	0 39
W22	10 24	-		13 50	2 4	9 0		25 25		23 17		14 5		16 22		21 28	1 27			2 28		18 15		0 39
T 23	10 2	7 39	-	13 10	2 2	8 31	-	25 25		23 17	0 6	14 7		16 22	-	21 28		-	17 30	2 26				0 39
F 24	9 40	3 52	-	12 29		8 3		25 24		23 17	0 6			16 22	-	21 28	1 27		17 30	2 24		-		0 39
S 25	9 18	0s 9	0 39	11 47	1 58	7 33	1 26	25 23	3 52	23 17	0 6	14 10	1 33	16 21	0 24	21 28	1 27	9 46	17 31	2 24	3 2	18 14	11 34	0 39
S 26	8 56	4 14	0n33	11 3	1 54	7 4	-	25 21		23 18		14 12	1 33	16 21		21 28		9 46	17 31	2 24				0 39
M27	8 33	8 10		10 18		6 35	-	25 20		23 18		14 14		16 21	-	21 28		9 47	17 31	2 24		-		0 39
T 28	8 s 1 1	11 s44	2n50	9 s 3 2	1 s46	6s 5	1 s25	25n18	3n46	23n18	0 s 5	14n15	1n33	16 s21	0n24	21 s28	1n27	9n48	17n32	2 s25	2 s 5 8	18n13	11n37	0 s 40

Julian Day Number = 2443540.5, Delta T = 48.63 sec Ecliptic obliquity = $23^{\circ}26'22$, Nutation = $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}26'03$, Lahiri = $23^{\circ}33'04$

MARCH 1978 00:00 UT

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W 1	10 33 47	10) 2'37	22 M 28	11) (41	19) 10	22°R17	26 I I12	26°R 7	16°R22	18 × 13	16°R14	6₽ 6	7 ≏ 26	49544	2 8 13	W 1
T 2	10 37 43	11° 2'50	6 ₹ 23	13°35	20°25	22°D17	26°14	26Ω 2	16M22	18°13	16 ≏ 13	6°R 7	7°23	4°51	2°15	T 2
F 3	10 41 40	12° 3'01	20°30	15°30	21°40	229517	26°16	25°57	16°21	18°14	16°11	6° 7	7°20	4°57	2°18	F 3
S 4	10 45 37	13° 3'10	4 궁 48	17°25	22°55	22°17	26°18	25°53	16°20	18°15	16°10	6° 6	7°16	5° 4	2°21	S 4
S 5	10 49 33	14° 3'18	19°14	19°21	24°10	22°19	26°21	25°48	16°20	18°15	16° 9	6° 3	7°13	5°11	2°23	S 5
M 6	10 53 30	15° 3'25	3≈43	21°17	25°24	22°21	26°24	25°44	16°19	18°16	16° 7	6° 1	7°10	5°18	2°26	M 6
T 7	10 57 26	16° 3'30	18°11	23°13	26°39	22°24	26°26	25°39	16°18	18°16	16° 6	5°58	7° 7	5°24	2°29	T 7
W 8	11 1 23	17° 3'33	2) (31	25°10	27°54	22°28	26°29	25°35	16°17	18°17	16° 5	5°55	7° 4	5°31	2°32	W 8
T 9	11 5 19	18° 3'34	16°39	27° 6	29° 9	22°32	26°33	25°31	16°16	18°17	16° 3	5°53	7° 0	5°38	2°35	T 9
F 10	11 9 16	19° 3'33	0 Υ 30	29° 2	0 Υ 23	22°37	26°36	25°27	16°15	18°17	16° 2	5°D53	6°57	5°44	2°37	F 10
S 11	11 13 12	20° 3'30	14° 0	0 Υ 57	1°38	22°43	26°39	25°22	16°14	18°18	16° 0	5°53	6°54	5°51	2°40	S 11
S 12	11 17 9	21° 3'26	27° 9	2°50	2°53	22°49	26°43	25°18	16°13	18°18	15°59	5°53	6°51	5°58	2°43	S 12
M13	11 21 5	22° 3'19	9 8 57	4°43	4° 7	22°56	26°47	25°14	16°12	18°18	15°57	5°55	6°48	6° 5	2°46	M13
T 14	11 25 2	23° 3'10	22°26	6°33	5°22	23° 4	26°51	25°10	16°11	18°18	15°56	5°56	6°45	6°11	2°49	T 14
W15	11 28 59	24° 2'59	4 ∏ 39	8°21	6°37	23°12	26°56	25° 6	16°10	18°19	15°54	5°57	6°41	6°18	2°52	W15
T 16	11 32 55	25° 2'46	16°41	10° 6	7°51	23°21	27° 0	25° 2	16° 9	18°19	15°53	5°58	6°38	6°25	2°56	T 16
F 17	11 36 52	26° 2'30	28°36	11°48	9° 6	23°30	27° 5	24°58	16° 7	18°19	15°51	5°R58	6°35	6°32	2°59	F 17
S 18	11 40 48	27° 2'12	109529	13°27	10°20	23°40	27° 9	24°55	16° 6	18°19	15°50	5°57	6°32	6°38	3° 2	S 18
S 19	11 44 45	28° 1'52	22°24	15° 0	11°35	23°51	27°14	24°51	16° 5	18°19	15°48	5°57	6°29	6°45	3° 5	S 19
M20	11 48 41	29° 1'30	4 Ω 25	16°30	12°49	24° 2	27°20	24°47	16° 3	18°19	15°47	5°56	6°25	6°52	3° 8	M20
T 21	11 52 38	0 Υ 1'06	16°37	17°54	14° 4	24°13	27°25	24°44	16° 2	18°R19	15°45	5°55	6°22	6°58	3°11	T 21
W22	11 56 34	1° 0'39	29° 3	19°12	15°18	24°26	27°30	24°40	16° 0	18°19	15°43	5°54	6°19	7° 5	3°15	W22
T 23	12 0 31	2° 0'10	11 M 44	20°25	16°32	24°38	27°36	24°37	15°59	18°19	15°42	5°54	6°16	7°12	3°18	T 23
F 24	12 4 28	2°59'39	24°41	21°31	17°47	24°52	27°42	24°34	15°57	18°19	15°40	5°53	6°13	7°19	3°21	F 24
S 25	12 8 24	3°59'06	7 ≙ 56	22°31	19° 1	25° 5	27°48	24°31	15°56	18°19	15°39	5°D53	6°10	7°25	3°25	S 25
S 26	12 12 21	4°58'31	21°26	23°23	20°15	25°19	27°54	24°28	15°54	18°19	15°37	5°53	6° 6	7°32	3°28	S 26
M27	12 16 17	5°57'53	5 M 10	24° 9	21°30	25°34	28° 0	24°25	15°52	18°19	15°35	5°R53	6° 3	7°39	3°31	M27
T 28	12 20 14	6°57'15	19° 6	24°47	22°44	25°49	28° 6	24°22	15°50	18°18	15°34	5°53	6° 0	7°45	3°35	T 28
W29	12 24 10	7°56'34	3 ∡ 10	25°18	23°58	26° 5	28°13	24°19	15°49	18°18	15°32	5°53	5°57	7°52	3°38	W29
T 30	12 28 7	8°55'51	1 <u>7</u> °20	25°42	25°12	26°21	28°20	24°16	15°47	18°18	15°30	5°53	5°54	7°59	3°42	T 30
F 31	12 32 3	9 Ƴ 55'07	1 る 33	25 ℃ 57	26 Y 26	26937	28 Ⅲ 27	24 Ω 13	15 M .45	18 × 18	15 ≏ 29	5 ≏ 53	5 ≏ 51	899 6	3 8 45	F 31

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	decl	decl lat	decl lat	decl lat de	cl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl d	ecl decl lat
W 1 T 2 F 3 S 4	7 s48 7 25 7 2 6 39	16 53 4 33 18 4 5 3	7 56 1 36 7 6 1 30	6 5 5 1 24 25 0 4 35 1 23 25	15 3 42 13 3 40	23n18 0s 5 23 18 0 5 23 19 0 5 23 19 0 5	14 18 1 33 14 20 1 34	16 21 0 24 16 21 0 24	21 s28 1 n27 21 28 1 27 21 28 1 27 21 28 1 27	9n49 17n32 9 50 17 33 9 50 17 33 9 51 17 33	2 s25 2 26 2 26 2 25	2 56 18 2 54 18	113 11n37 0 s40 13 11 38 0 40 13 11 39 0 40 12 11 40 0 40
S 5 M 6 T 7 W 8	6 16 5 53 5 30 5 7	17 0 5 6 14 48 4 39 11 41 3 53 7 52 2 54	5 23 1 16 4 31 1 9 3 37 1 0 2 43 0 52	6 3 34 1 22 25 9 3 4 1 21 25 0 2 33 1 20 25 2 2 3 1 19 25	9 3 36 6 3 34 4 3 32 2 3 30	23 19 0 4 23 19 0 4 23 19 0 4 23 20 0 4	14 23 1 34 14 25 1 34 14 26 1 34 14 28 1 34	16 20 0 24 16 20 0 24 16 20 0 24 16 20 0 24	21 28 1 27 21 28 1 27 21 28 1 27 21 28 1 27	9 52 17 34 9 53 17 34 9 54 17 34 9 54 17 35	2 24 2 23 2 22 2 21	2 52 18 2 51 18 2 49 18 2 48 18	12 11 41 0 40 12 11 42 0 40 11 11 43 0 40 11 11 44 0 40
T 9 F 10 S 11 S 12	4 43 4 20 3 56 3 33	3 40 1 44 0n39 0 30 4 50 0s45 8 40 1 55	0 53 0 32 0n 3 0 21	2 1 1 1 17 24 1 0 30 1 16 24	56 3 26 53 3 24	23 20 0 4 23 20 0 4 23 20 0 4 23 20 0 3	14 31 1 34 14 32 1 34	16 19 0 24 16 19 0 24	21 28 1 27 21 28 1 27 21 28 1 27 21 28 1 27	9 55 17 35 9 56 17 35 9 57 17 36 9 58 17 36		2 46 18 2 44 18	11 11 45 0 40 11 11 45 0 40 10 11 46 0 40 10 11 47 0 40
M13 T 14 W15 T 16 F 17 S 18	3 9 2 45 2 22 1 58 1 34	14 40 3 50 16 38 4 31 17 49 4 59	3 42 0 25 4 35 0 38 5 26 0 50	1 0 31 1 13 24 3 1 2 1 12 24 5 1 33 1 10 24 8 2 4 1 9 24 0 2 34 1 8 24	47 3 21 44 3 19 41 3 17 37 3 15 34 3 13		14 35 1 34 14 36 1 34 14 38 1 34 14 39 1 34 14 40 1 34	16 18 0 24 16 18 0 24 16 17 0 24 16 17 0 24 16 17 0 24	21 28 1 27 21 28 1 28 21 28 1 28	10 2 17 37	2 21 2 21 2 22 2 22 2 22 2 22 2 22	2 42 18 2 41 18 2 39 18 2 38 18 2 37 18 2 36 18	10 11 48 0 40 9 11 49 0 40 9 11 50 0 40 9 11 51 0 40 8 11 52 0 40 8 11 53 0 40
S 19 M20 T 21 W22 T 23 F 24 S 25		16 35 5 4 14 39 4 39 12 2 4 0 8 50 3 10	7 5 1 16 7 51 1 29 8 35 1 41 9 16 1 53 9 55 2 5 10 30 2 17	6 3 36 1 4 24 9 4 6 1 3 24 1 4 37 1 1 24 3 5 7 0 59 24 5 5 37 0 57 24 7 6 7 0 55 24	26 3 9 23 3 7 19 3 6 15 3 4 11 3 2 6 3 0	23 22 0 3 23 22 0 2 23 23 0 2	14 43 1 34 14 44 1 34 14 45 1 34 14 46 1 34 14 47 1 34 14 48 1 34	16 16 0 24 16 15 0 24 16 15 0 24 16 15 0 24 16 14 0 24 16 14 0 24	21 28 1 28 21 28 1 28	10 3 17 38 10 4 17 38 10 5 17 38 10 5 17 38 10 6 17 38 10 7 17 38	2 22 2 21 2 21 2 21 2 20 2 20 2 20 2 20	2 34 18 2 33 18 2 32 18 2 31 18 2 29 18 2 28 18 2 27 18	8 11 54 0 40 7 11 55 0 40 7 11 57 0 41 7 11 58 0 41 6 11 59 0 41 6 12 0 0 41 6 12 1 0 41
S 26 M27 T 28 W29 T 30 F 31		10 48 2 35 14 0 3 37 16 25 4 27 17 51 5 1	12 18 2 55	6 7 37 0 50 23 5 8 6 0 47 23 2 8 36 0 45 23 8 9 5 0 43 23	53 2 55 49 2 53 44 2 51 39 2 50	23 24 0 2 23 24 0 2 23 24 0 1 23 24 0 1 23 24 0 1 23 24 0 1 23 25 0s 1	14 51 1 33 14 52 1 33 14 53 1 33 14 54 1 33	16 12 0 24 16 12 0 24 16 11 0 24 16 11 0 24	21 28 1 28 21 s28 1 128	10 9 17 39 10 10 17 39 10 11 17 39 10 11 17 39	2 20 2 20 2 20 2 20 2 20 2 20 2 s20	2 26 18 2 24 18 2 23 18 2 22 18 2 20 18 2 s19 181	5 12 2 0 41 5 12 3 0 41 5 12 4 0 41 4 12 5 0 41 4 12 6 0 41 1 4 12n 7 0 s41

 $\label{eq:Julian Day Number = 2443568.5, Delta T = 48.71 sec} \\ Ecliptic obliquity = 23°26'23, Nutation = 0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°26'07, Lahiri = 23°33'07 \\$

APRIL 1978 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ð	4	ħ)∤(卉	Р	V	v	Ç	ķ	Day
S 1	12 36 0	10 Υ 54'21	15 る 46	26 Υ 6	27 Y 40	26954	28 Ⅲ 34	24°R11	15°R43	18°R17	15°R27	5°D53	5 ≙ 47	8912	3 8 49	S 1
S 2	12 39 57	11°53'34	29°57	26°R 7	28°55	27°11	28°41	24 Q 8	15 M .41	18 × 17	15 ≙ 25	5 Ω 53	5°44	8°19	3°52	S 2
M 3	12 43 53	12°52'44	14≈ 4	26° 2	0 8 9	27°29	28°48	24° 6	15°39	18°16	15°24	5°54	5°41	8°26	3°56	M 3
T 4	12 47 50	13°51'53	28° 4	25°49	1°23	27°47	28°56	24° 4	15°37	18°16	15°22	5°54	5°38	8°33	3°59	T 4
W 5	12 51 46	14°51'00	11 米 55	25°30	2°37	28° 6	29° 3	24° 1	15°35	18°15	15°20	5°55	5°35	8°39	4° 3	W 5
T 6	12 55 43	15°50'05	25°35	25° 6	3°51	28°25	29°11	23°59	15°33	18°15	15°19	5°56	5°31	8°46	4° 7	T 6
F 7	12 59 39	16°49'08	9 Υ 1	24°36	5° 4	28°44	29°19	23°57	15°31	18°14	15°17	5°R56	5°28	8°53	4°10	F 7
S 8	13 3 36	17°48'09	22°14	24° 1	6°18	29° 3	29°27	23°55	15°29	18°14	15°15	5°55	5°25	8°59	4°14	S 8
S 9	13 7 32	18°47'08	5 8 10	23°23	7°32	29°23	29°35	23°54	15°27	18°13	15°13	5°54	5°22	9° 6	4°17	S 9
M10	13 11 29	19°46'05	17°51	22°41	8°46	29°44	29°43	23°52	15°24	18°13	15°12	5°52	5°19	9°13	4°21	M10
T 11	13 15 25	20°45'00	0 Ⅱ 17	21°58	10° 0	0 Ω 4	29°51	23°50	15°22	18°12	15°10	5°50	5°16	9°20	4°25	T 11
W12	13 19 22	21°43'53	12°30	21°13	11°14	0°26	29°59	23°49	15°20	18°11	15° 8	5°48	5°12	9°26	4°28	W12
T 13	13 23 19	22°42'44	24°32	20°27	12°27	0°47	0න 9	23°47	15°18	18°11	15° 7	5°46	5° 9	9°33	4°32	T 13
F 14	13 27 15	23°41'32	69528	19°42	13°41	1° 9	0°17	23°46	15°16	18°10	15° 5	5°44	5° 6	9°40	4°36	F 14
S 15	13 31 12	24°40'18	18°20	18°58	14°55	1°31	0°26	23°45	15°13	18° 9	15° 3	5°43	5° 3	9°46	4°39	S 15
S 16	13 35 8	25°39'02	0Ω15	18°16	16° 8	1°53	0°35	23°44	15°11	18° 8	15° 2	5°D43	5° 0	9°53	4°43	S 16
M17	13 39 5	26°37'44	12°16	17°37	17°22	2°15	0°44	23°43	15° 9	18° 7	15° 0	5°44	4°57	10° 0	4°47	M17
T 18	13 43 1	27°36'23	24°28	17° 1	18°36	2°38	0°53	23°42	15° 6	18° 7	14°59	5°45	4°53	10° 7	4°51	T 18
W19	13 46 58	28°35'00	6 m 55	16°29	19°49	3° 1	1° 3	23°41	15° 4	18° 6	14°57	5°47	4°50	10°13	4°54	W19
T 20	13 50 54	29°33'35	19°42	16° 1	21° 3	3°25	1°12	23°41	15° 1	18° 5	14°55	5°48	4°47	10°20	4°58	T 20
F 21	13 54 51	0832'08	2 ₽ 50	15°37	22°16	3°49	1°22	23°40	14°59	18° 4	14°54	5°R49	4°44	10°27	5° 2	F 21
S 22	13 58 48	1°30'39	16°20	15°18	23°29	4°13	1°31	23°40	14°57	18° 3	14°52	5°49	4°41	10°34	5° 6	S 22
S 23	14 2 44	2°29'08	0 M .12	15° 4	24°43	4°37	1°41	23°39	14°54	18° 2	14°50	5°47	4°37	10°40	5° 9	S 23
M24	14 641	3°27'35	14°23	14°55	25°56	5° 1	1°51	23°39	14°52	18° 1	14°49	5°44	4°34	10°47	5°13	M24
T 25	14 10 37	4°26'00	28°47	14°D52	27° 9	5°26	2° 1	23°39	14°49	18° 0	14°47	5°40	4°31	10°54	5°17	T 25
W26	14 14 34	5°24'24	13 × 20	14°53	28°23	5°51	2°11	23°D39	14°47	17°59	14°46	5°36	4°28	11° 0	5°21	W26
T 27	14 18 30	6°22'46	27°54	14°59	29°36	6°16	2°21	23°39	14°44	17°58	14°44	5°32	4°25	11° 7	5°24	T 27
F 28	14 22 27	7°21'06	12 る 24	15° 9	0 Ⅱ 49	6°42	2°32	23°39	14°42	17°57	14°43	5°29	4°22	11°14	5°28	F 28
S 29	14 26 23	8°19'25	26°46	15°25	2° 2	7° 7	2°42	23°40	14°39	17°55	14°41	5°27	4°18	11°21	5°32	S 29
S 30	14 30 20	9 8 17'43	10≈55	15 Ƴ 45	3 II 15	7 Ω 33	2952	23 N 40	14 M 37	17 ∡ 754	14 ≏ 40	5°D26	4 ₽ 15	119527	5 8 36	S 30

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	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	4n19	17s20 5n12	13n 7 3n	n16 10n 3 0s39	23n30 2n46	23n25 0s 1	14n56 1n33	16 s10 0n24	21 s27 1n28	10n13 17n39	2 s20	2 s 18 18 n 3	3 12n 9 0s41
S 2		15 26 4 50				23 25 0 1			21 27 1 28		2 20	2 17 18 3	
M 3 T 4	5 5 5 28	12 37 4 9 9 6 3 15				23 25 0 1 23 25 0 1			21 27 1 28 21 27 1 28		2 20 2 21	-	3 12 11 0 41 2 12 12 0 41
W 5	5 51		-	14 11 55 0 30	-	23 26 0 1			21 27 1 28	1 1	2 21		2 12 13 0 41
T 6	6 14		-	10 12 22 0 27		23 26 0 0			21 27 1 28		2 21	-	1 12 14 0 41
F 7	6 37	3n19 0s17	12 23 3			23 26 0 0	15 0 1 33	16 6 0 24	21 27 1 29		2 21	2 10 18	1 12 15 0 41
S 8	6 59	7 17 1 29	12 3 2	56 13 16 0 22	22 52 2 35	23 26 0 0	15 0 1 33	16 5 0 24	21 27 1 29	10 17 17 40	2 21	2 9 18	1 12 17 0 42
S 9	7 22	10 49 2 35	11 40 2	47 13 43 0 20	22 46 2 33	23 26 0 0	15 1 1 33	16 5 0 24	21 27 1 29	10 18 17 40	2 21	2 8 18 0	12 18 0 42
M10	,					23 26 0 0			21 27 1 29		2 20	2 7 18 0	
T 11	8 6	16 1 4 17	-			23 26 On 0			21 27 1 29		2 19		9 12 20 0 42
W12 T 13	-	17 30 4 50 18 10 5 9	-		22 29 2 28 22 22 2 27	23 27 0 0 23 27 0 0			21 27 1 29 21 26 1 29		2 18 2 17		9 12 21 0 42 9 12 22 0 42
F 14		18 2 5 15				23 27 0 0			21 26 1 29		2 17	2 2 17 58	
S 15	9 33					23 27 0 0			21 26 1 29		2 16	2 0 17 58	
S 16	9 55	15 25 4 47	8 15 1	10 16 38 0 2	22 3 2 22	23 27 0 1	15 4 1 32	16 0 0 24	21 26 1 29	10 22 17 39	2 16	1 59 17 57	7 12 26 0 42
M17	10 16	13 4 4 14			21 57 2 21	23 27 0 1	-		21 26 1 29		2 17	1 58 17 57	
T 18		10 5 3 28				23 27 0 1			21 26 1 29			1 57 17 57	
W19 T 20	10 58 11 19	6 37 2 32 2 44 1 28	6 47 0 1			23 27 0 1 23 27 0 1			21 26 1 29 21 26 1 29			1 55 17 56 1 54 17 56	
F 21	11 40	1 s23 0 16				23 27 0 1			21 26 1 29		2 19	1 53 17 55	
S 22	12 0	5 32 0n58				23 27 0 1			21 25 1 29		2 18	1 52 17 55	
S 23	12 20	9 31 2 10	5 16 0	44 19 13 0 17	21 15 2 12	23 27 0 1	15 5 1 32	15 55 0 24	21 25 1 29	10 25 17 38	2 18	1 50 17 55	5 12 34 0 43
M24	12 40	13 2 3 16	4 59 0	59 19 33 0 19	21 8 2 11	23 27 0 1	15 5 1 32	15 55 0 24	21 25 1 29	10 26 17 38	2 17	1 49 17 54	1 12 35 0 43
T 25	13 0	15 49 4 10	4 44 1	13 19 53 0 22	-	23 27 0 2			21 25 1 29		2 15	1 48 17 54	
W26		17 37 4 49				23 27 0 2			21 25 1 29		2 14		3 12 38 0 43
T 27		18 16 5 10				23 27 0 2			21 25 1 29		2 12		3 12 39 0 43
F 28 S 29	13 58 14 17	17 43 5 10 16 2 4 51				23 27 0 2 23 27 0 2			21 25 1 29 21 25 1 29			1 44 17 52 1 43 17 52	
S 30	14n35	13 s24 4n15	4n11 2s	s11 21n23 0n35	20n22 2n 3	23n27 On 2	15n 4 1n31	15 s50 0n24	21 s24 1n29	10n28 17n37	2 s10	1 s41 17n52	2 12n43 0s43

Julian Day Number = 2443599.5, Delta T = 48.80 sec Ecliptic obliquity = $23^{\circ}26'23$, Nutation = $0^{\circ}00'02$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}26'11$, Lahiri = $23^{\circ}33'12$

MAY 1978 00:00 UT

Day	Sid.t	0	D	ğ	Q	ď	4	ħ)∤(¥	Р	n	Ω	Ç	ę,	Day
M 1	14 34 17	10 8 15'59	24≈50	16 Y 10	4 Ⅲ 28	7 Ω 59	3 95 3	23 Ω 41	14°R34	17°R53	14°R38	5 ≙ 27	4 ₽ 12	11934	5 8 39	M 1
T 2	14 38 13	11°14'13	8) 32	16°39	5°42	8°26	3°14	23°41	14MJ32	17 ×7 52	14 ≏ 37	5°29	4° 9	11°41	5°43	T 2
W 3	14 42 10	12°12'26	22° 0	17°12	6°55	8°52	3°24	23°42	14°29	17°51	14°35	5°30	4° 6	11°48	5°47	W 3
T 4	14 46 6	13°10'37	5 Υ 15	17°49	8° 7	9°19	3°35	23°43	14°27	17°49	14°34	5°R31	4° 2	11°54	5°50	T 4
F 5	14 50 3	14° 8'47	18°17	18°30	9°20	9°46	3°46	23°44	14°24	17°48	14°32	5°30	3°59	12° 1	5°54	F 5
S 6	14 53 59	15° 6'55	18 8	19°14	10°33	10°13	3°57	23°45	14°21	17°47	14°31	5°27	3°56	12° 8	5°58	S 6
S 7	14 57 56	16° 5'02	13°47	20° 2	11°46	10°40	4° 8	23°46	14°19	17°46	14°30	5°23	3°53	12°14	6° 2	S 7
M 8	15 1 52	17° 3'07	26°15	20°54	12°59	11°8	4°19	23°47	14°16	17°44	14°28	5°16	3°50	12°21	6° 5	M 8
T 9	15 5 49	18° 1'11	8 Ⅲ 32	21°49	14°12	11°36	4°30	23°49	14°14	17°43	14°27	5° 9	3°47	12°28	6° 9	T 9
W10	15 9 46	18°59'12	20°39	22°46	15°25	12° 4	4°42	23°50	14°11	17°41	14°26	5° 1	3°43	12°35	6°13	W10
T 11	15 13 42	19°57'12	2939	23°47	16°37	12°32	4°53	23°52	14° 9	17°40	14°24	4°53	3°40	12°41	6°16	T 11
F 12	15 17 39	20°55'11	14°33	24°51	17°50	13° 0	5° 5	23°54	14° 6	17°39	14°23	4°46	3°37	12°48	6°20	F 12
S 13	15 21 35	21°53'07	26°24	25°58	19° 2	13°29	5°16	23°55	14° 4	17°37	14°22	4°41	3°34	12°55	6°24	S 13
S 14	15 25 32	22°51'02	8 Ω 17	27° 7	20°15	13°57	5°28	23°57	14° 1	17°36	14°21	4°38	3°31	13° 1	6°27	S 14
M15	15 29 28	23°48'55	20°16	28°19	21°28	14°26	5°39	23°59	13°59	17°34	14°19	4°D36	3°28	13° 8	6°31	M15
T 16	15 33 25	24°46'46	2 m 26	29°34	22°40	14°55	5°51	24° 1	13°56	17°33	14°18	4°37	3°24	13°15	6°35	T 16
W17	15 37 21	25°44'36	14°51	0 8 51	23°52	15°24	6° 3	24° 4	13°54	17°32	14°17	4°38	3°21	13°22	6°38	W17
T 18	15 41 18	26°42'24	27°37	2°10	25° 5	15°54	6°15	24° 6	13°51	17°30	14°16	4°39	3°18	13°28	6°42	T 18
F 19	15 45 15	27°40'10	10 <u>₽</u> 47	3°32	26°17	16°23	6°27	24° 8	13°49	17°29	14°15	4°R39	3°15	13°35	6°45	F 19
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S 21	15 53 8	29°35'37	8M28	6°24	28°42	17°22	6°51	24°13	13°44	17°26	14°13	4°33	3° 8	13°48	6°52	S 21
M22	15 57 4	0耳33'19	22°56	7°53	29°54	17°52	7° 3	24°16	13°42	17°24	14°12	4°27	3° 5	13°55	6°56	M22
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W24	16 4 57	2°28'38	2 <u>2</u> °42	10°58	2°18	18°53	7°27	24°22	13°37	17°21	14°10	4°11	2°59	14° 9	7° 3	W24
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S 28	16 20 44	6°19'04	21°28	17°37	7° 6	20°55	8°17	24°34	13°28	17°15	14° 6	3°47	2°46	14°36	7°17	S 28
M29	16 24 40	7°16'38	5 ¥ 25	19°23	8°18	21°26	8°29	24°37	13°25	17°13	14° 5	3°D46	2°43	14°42	7°20	M29
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Julian Day Number = 2443629.5, Delta T = 48.88 sec Ecliptic obliquity = $23^{\circ}26'22$, Nutation = $0^{\circ}00'00$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}26'15$, Lahiri = $23^{\circ}33'16$

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 $\label{eq:Julian Day Number = 2443660.5, Delta T = 48.97 sec} \\ Ecliptic obliquity = 23°26'22, Nutation = -0°00'00, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°26'20, Lahiri = 23°33'20 \\ \\$

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M 3	18 42 40	10°43'23	14°17	oΩ 7	19°33	10°37	16° 9	27°25	12°28	16°18	13°55	0°32	0°52	18°37	8°59	M 3
T 4	18 46 36	11°40'37	26°15	1°48	20°42	11°12	16°22	27°31	12°27	16°16	13°55	0°19	0°49	18°44	9° 1	T 4
W 5	18 50 33	12°37'50	895 9	3°27	21°52	11°47	16°36	27°37	12°26	16°15	13°56	0° 6	0°46	18°51	9° 3	W 5
T 6	18 54 29	13°35'04	20° 1	5° 4	23° 1	12°22	16°49	27°44	12°25	16°14	13°56	29 m 53	0°42	18°58	9° 5	T 6
F 7	18 58 26	14°32'18	1 Ω 52	6°39	24°10	12°57	17° 3	27°50	12°24	16°12	13°57	29°41	0°39	19° 4	9° 7	F 7
S 8	19 2 22	15°29'32	13°44	8°12	25°19	13°32	17°16	27°56	12°24	16°11	13°57	29°31	0°36	19°11	9° 9	S 8
S 9	19 6 19	16°26'46	25°39	9°42	26°28	14° 7	17°30	28° 2	12°23	16°10	13°58	29°24	0°33	19°18	9°11	S 9
M10	19 10 15	17°23'59	7 ™ 39	11°10	27°36	14°42	17°43	28° 9	12°22	16° 8	13°58	29°19	0°30	19°24	9°13	M10
T 11	19 14 12	18°21'13	19°48	12°37	28°45	15°17	17°57	28°15	12°22	16° 7	13°59	29°17	0°26	19°31	9°15	T 11
W12	19 18 9	19°18'26	2 ₽ 11	14° 0	29°54	15°52	18°10	28°22	12°21	16° 6	13°59	29°D17	0°23	19°38	9°17	W12
T 13	19 22 5	20°15'40	14°52	15°22	1 Mp 2	16°28	18°24	28°28	12°21	16° 4	14° 0	29°R17	0°20	19°45	9°19	T 13
F 14	19 26 2	21°12'53	27°54	16°41	2°10	17° 3	18°37	28°35	12°20	16° 3	14° 0	29°17	0°17	19°51	9°20	F 14
S 15	19 29 58	22°10'07	11 M 23	17°58	3°19	17°39	18°51	28°41	12°20	16° 2	14° 1	29°16	0°14	19°58	9°22	S 15
S 16	19 33 55	23° 7'20	25°21	19°13	4°27	18°15	19° 4	28°48	12°20	16° 1	14° 2	29°12	0°11	20° 5	9°23	S 16
M17	19 37 51	24° 4'34	9 ∡ 746	20°25	5°35	18°50	19°18	28°54	12°19	15°59	14° 3	29° 6	0° 7	20°11	9°25	M17
T 18	19 41 48	25° 1'48	24°38	21°34	6°42	19°26	19°31	29° 1	12°19	15°58	14° 3	28°59	0° 4	20°18	9°26	T 18
W19	19 45 44	25°59'02	9 궁 47	22°41	7°50	20° 2	19°45	29° 8	12°19	15°57	14° 4	28°50	0° 1	20°25	9°28	W19
T 20	19 49 41	26°56'17	25° 6	23°45	8°58	20°38	19°58	29°15	12°19	15°56	14° 5	28°41	29 m 58	20°32	9°29	T 20
F 21	19 53 38	27°53'32	10≈22	24°47	10° 5	21°14	20°12	29°22	12°D19	15°55	14° 6	28°33	29°55	20°38	9°31	F 21
S 22	19 57 34	28°50'47	25°25	25°45	11°12	21°50	20°25	29°29	12°19	15°54	14° 7	28°27	29°51	20°45	9°32	S 22
S 23	20 1 31	29°48'03	10 米 6	26°41	12°19	22°26	20°38	29°35	12°19	15°53	14° 8	28°24	29°48	20°52	9°33	S 23
M24	20 5 27	0 Ω 45'20	24°21	27°33	13°26	23° 2	20°52	29°42	12°19	15°52	14° 9	28°D22	29°45	20°58	9°34	M24
T 25	20 9 24	1°42'38	8 ℃ 7	28°22	14°33	23°39	21° 5	29°49	12°19	15°51	14°10	28°22	29°42	21° 5	9°35	T 25
W26	20 13 20	2°39'57	21°26	29° 8	15°40	24°15	21°19	29°56	12°19	15°50	14°11	28°23	29°39	21°12	9°36	W26
T 27	20 17 17	3°37'16	4821	29°50	16°46	24°52	21°32	0Mp 4	12°20	15°49	14°12	28°R24	29°36	21°19	9°37	T 27
F 28	20 21 13	4°34'37	16°55	0 m 28	17°53	25°28	21°45	0°11	12°20	15°48	14°13	28°23	29°32	21°25	9°38	F 28
S 29	20 25 10	5°31'59	29°14	1° 3	18°59	26° 5	21°59	0°18	12°20	15°47	14°14	28°20	29°29	21°32	9°39	S 29
S 30	20 29 7	6°29'21	11 II 21	1°33	20° 5	26°41	22°12	0°25	12°21	15°46	14°15	28°15	29°26	21°39	9°40	S 30
M31	20 33 3	7 Ω 26'45	23 Ⅱ 19	1 m 59	21 Mp 11	27 Mp 18	22925	0 m /32	12 M 21	15 ∡ 45	14 ₽ 16	28Mp 8	29 m 23	219945	9 8 41	M31

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S 2	23 5	16 17 4	25 22 15	1 48	17 1	1 48	8 41	0 58	22 37	0 8	13 46	1 27	15 13	0 23	21 15	1 29	10 19	17 9	0 17	0 22	17 18	13 42	0 49
M 3	23 0	17 44 4	49 21 50		16 38	1 46	8 27		22 36	0 8	13 43	1 27	15 13		21 15	1 29			0 13	0 21	17 17		0 49
T 4	22 56	-	0 21 24		16 15	1 45	8 13		22 34	0 8			15 12		21 15	1 29	10 18		0 8	0 19		13 43	
W 5	22 50					1 43	7 59		22 33	0 8			15 12		21 15	1 29	10 17		0 2		17 16		0 49
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M10	22 18		52 18 28			1 34	6 48		22 25	0 9			-		21 14	1 29	10 14		0 16		17 13		0 50
T 11	22 11		50 17 56			1 32	6 34		22 23	0 9			15 11		21 14	1 29	10 13		0 17		17 12		0 50
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	21 55 21 46		22 16 52 26 16 20		-	1 27 1 25	6 5 5 50		22 19 22 18		13 21 13 19		15 11 15 11		21 14 21 14		10 12 10 11		0 17 0 17	0 8 0 7	17 10		0 50
S 15	21 40		24 15 48		11 34	1 22	5 36		22 16		13 17		15 11		21 14				0 17		17 10	-	0 51
	21 28		13 15 15	-		1 20	5 21		22 14		13 15		15 11		21 14				0 19	-		13 49	0 51
M17 T 18	-		47 14 43 3 14 11			1 17	5 6		22 12		13 12		15 11		21 14		10 9		0 21 0 24	0 3		13 50	0 51 0 51
W19	21 8 20 57		3 14 11 58 13 39			1 14 1 11	4 52 4 37	0 44	22 10 22 9	0 9	13 10 13 7		15 11 15 10		21 14 21 14			17 0 17 0	0 24	0 2 0		13 50 13 50	0 51
T 20			32 13 7		9 16	1 8	4 22	0 43					15 10		21 14			16 59	0 32		17 6		0 51
F 21	20 35		47 12 36			1 5	4 7	0 42		0 10			15 11		21 13	1 29		16 59	0 35	-		13 51	0 51
S 22			47 12 5			1 2	3 52	0 41		0 10			15 11		21 13	1 29		16 58	0 37	0 3		13 51	0 51
S 23	20 12	6 18 1	36 11 35	1 6	7 50	0 58	3 37	0 40	22 1	0 10	12 58	1 26	15 11	0.22	21 13	1 29	10 4	16 58	0 38	0 5	17 4	13 51	0 52
M24	19 59		22 11 6			0 55	3 22		21 59		12 55		15 11		21 13	1 29		16 57	0 38	0 6		13 52	0 52
T 25	19 47		s52 10 38			0 51	3 7		21 57		12 53		15 11		21 13	1 28		16 57	0 39	0 7			0 52
W26	19 34					0 48	2 52		21 55		12 50		15 11		21 13	1 28		16 56	0 38	0 8			0 52
T 27	19 21		1 9 44			0 44	2 37		21 53		12 48		15 11		21 13	1 28		16 56	0 38	0 10		13 52	0 52
F 28			50 9 18			0 40	2 21		21 51	0 10			15 11		21 13	1 28		16 55	0 39	0 11		13 52	0 52
S 29	18 53	15 37 4	28 8 54	2 21	4 55	0 36	2 6	0 36	21 49	0 10	12 43	1 26	15 11	0 22	21 13	1 28	9 59	16 55	0 40	0 12	17 0	13 53	0 52
S 30	18 39	17 18 4	53 8 31	2 34	4 25	0 32	1 51	0 35	21 47	0 11	12 40	1 26	15 11	0 22	21 13	1 28	9 58	16 54	0 42	0 13	16 59	13 53	0 53
M31	18n25	18n11 5 s	s 5 8n10	2 s47	3n55	0n28	1n36	0n34	21n45	0n11	12n38	1n26	15 s12	0n22	21 s13	1n28	9n57	16n54	0n44	0n15	16n59	13n53	0 s53

Julian Day Number = 2443690.5, Delta T = 49.06 sec Ecliptic obliquity = $23^{\circ}26'22$, Nutation = $0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}26'24$, Lahiri = $23^{\circ}33'24$

AUGUST 1978 00:00 UT

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Day	Sid.t	0	D	ğ	·	ð	4	ħ)∤(卉	В	v	v	Ç	ķ	Day
T 1	20 37 0	8 Ω 24'10	59913	2 m 21	22 m 17	27 m 55	22938	0 m 39	12 M 22	15°R44	14 ₽ 17	28°R 0	29 m 20	21952	9842	T 1
W 2	20 40 56	9°21'36	17° 4	2°38	23°22	28°32	22°51	0°47	12°22	15 ∡ 43	14°19	27 m 51	29°17	21°59	9°42	W 2
T 3	20 44 53	10°19'02	28°56	2°51	24°28	29° 9	23° 5	0°54	12°23	15°43	14°20	27°42	29°13	22° 6	9°43	T 3
F 4	20 48 49	11°16'30	10 Ω 49	2°58	25°33	29°46	23°18	1° 1	12°24	15°42	14°21	27°34	29°10	22°12	9°44	F 4
S 5	20 52 46	12°13'58	22°45	3°R 1	26°38	0 ჲ 23	23°31	1° 9	12°24	15°41	14°23	27°27	29° 7	22°19	9°44	S 5
S 6	20 56 42	13°11'28	4 Mp 47	2°58	27°43	1° 0	23°44	1°16	12°25	15°40	14°24	27°22	29° 4	22°26	9°45	S 6
M 7	21 0 39	14° 8'58	16°56	2°50	28°47	1°38	23°57	1°23	12°26	15°40	14°25	27°20	29° 1	22°32	9°45	M 7
T 8	21 4 36	15° 6'29	29°14	2°36	29°52	2°15	24°10	1°31	12°27	15°39	14°27	27°D19	28°57	22°39	9°45	T 8
W 9	21 8 32	16° 4'01	11 ≏ 44	2°17	0 ჲ 56	2°52	24°23	1°38	12°28	15°39	14°28	27°20	28°54	22°46	9°46	W 9
T 10	21 12 29	17° 1'34	24°30	1°53	2° 0	3°30	24°36	1°46	12°29	15°38	14°30	27°22	28°51	22°53	9°46	T 10
F 11	21 16 25	17°59'08	7 M .34	1°24	3° 3	4° 7	24°49	1°53	12°30	15°37	14°31	27°23	28°48	22°59	9°46	F 11
S 12	21 20 22	18°56'42	21° 0	0°50	4° 7	4°45	25° 2	2° 0	12°31	15°37	14°33	27°R23	28°45	23° 6	9°46	S 12
S 13	21 24 18	19°54'18	4 √ 49	0°12	5°10	5°23	25°15	2° 8	12°32	15°36	14°34	27°22	28°42	23°13	9°46	S 13
M14	21 28 15	20°51'54	19° 3	$29\Omega 30$	6°13	6° 0	25°27	2°15	12°33	15°36	14°36	27°20	28°38	23°19	9°R46	M14
T 15	21 32 11	21°49'32	3 云 39	28°44	7°16	6°38	25°40	2°23	12°35	15°35	14°37	27°16	28°35	23°26	9°46	T 15
W16	21 36 8	22°47'10	18°33	27°56	8°19	7°16	25°53	2°30	12°36	15°35	14°39	27°11	28°32	23°33	9°46	W16
T 17	21 40 5	23°44'49	3≈37	27° 5	9°21	7°54	26° 6	2°38	12°37	15°35	14°41	27° 7	28°29	23°40	9°46	T 17
F 18	21 44 1	24°42'30	18°43	26°14	10°23	8°32	26°18	2°46	12°39	15°34	14°42	27° 2	28°26	23°46	9°46	F 18
S 19	21 47 58	25°40'12	3) €40	25°23	11°24	9°10	26°31	2°53	12°40	15°34	14°44	26°59	28°23	23°53	9°46	S 19
S 20	21 51 54	26°37'55	18°21	24°33	12°26	9°48	26°43	3° 1	12°42	15°34	14°46	26°58	28°19	24° 0	9°45	S 20
M21	21 55 51	27°35'39	2 Υ 39	23°44	13°27	10°27	26°56	3° 8	12°43	15°34	14°47	26°D58	28°16	24° 6	9°45	M21
T 22	21 59 47	28°33'25	16°32	22°59	14°28	11° 5	27° 8	3°16	12°45	15°33	14°49	26°59	28°13	24°13	9°44	T 22
W23	22 3 44	29°31'13	29°57	22°18	15°28	11°43	27°21	3°23	12°46	15°33	14°51	27° 0	28°10	24°20	9°44	W23
T 24	22 7 40	0 m ,29'03	12857	21°42	16°28	12°22	27°33	3°31	12°48	15°33	14°53	27° 2	28° 7	24°26	9°43	T 24
F 25	22 11 37	1°26'54	25°35	21°12	17°28	13° 0	27°45	3°39	12°50	15°33	14°55	27° 3	28° 3	24°33	9°43	F 25
S 26	22 15 34	2°24'47	7 ∏ 56	20°48	18°27	13°39	27°57	3°46	12°52	15°33	14°56	27°R 3	28° 0	24°40	9°42	S 26
S 27	22 19 30	3°22'42	20° 2	20°31	19°26	14°17	28° 9	3°54	12°53	15°33	14°58	27° 1	27°57	24°47	9°42	S 27
M28	22 23 27	4°20'39	295 0	20°22	20°25	14°56	28°22	4° 2	12°55	15°D33	15° 0	26°59	27°54	24°53	9°41	M28
T 29	22 27 23	5°18'37	13°52	20°D21	21°23	15°35	28°34	4° 9	12°57	15°33	15° 2	26°57	27°51	25° 0	9°40	T 29
W30	22 31 20	6°16'37	25°43	20°28	22°21	16°14	28°46	4°17	12°59	15°33	15° 4	26°53	27°48	25° 7	9°39	W30
T 31	22 35 16	7 m) 14'39	7 Ω 36	20 Ω 43	23 ₽ 19	16 ≏ 53	28957	4 Mp 24	13 M 1	15 × 33	15 ♀ 6	26 Mp 50	27 Mp 44	259513	9 8 38	T 31

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T 3 F 4 S 5	17 39 17 24 17 8		14 7 4	3 24 2 26 3 36 1 56 3 47 1 26	0 15 0 0 10 0 0 6 0	34 0 31	21 39 21 37 21 35	0 11	12 30 12 27 12 25	1 26	15 12 15 12 15 13	0 22	21 13	1 28 1 28 1 28	9 54 16 52 9 53 16 52 9 52 16 51	0 55 0 58 1 1	0 20	16 57 16 56 16 55	13 53 0 53
S 6 M 7 T 8 W 9 T 10	16 52 16 35 16 18 16 1 15 44	4 18 0 5 0 28 0n1 3 s27 1 1 7 17 2 2	56 6 36 4 10 6 33 4 18 6 31 4 22 6 33 4	3 58 0 56 4 8 0 26 4 17 0s 4 4 26 0 34 4 33 1 4	0 1 0 0s 3 0s 0 8 0 0 13 0 0 18 0	12 0 29 28 0 28 43 0 27 59 0 27	21 26 21 24	0 11 0 12 0 12 0 12	12 17 12 14 12 12	1 26 1 26 1 27 1 27	15 14 15 14	0 22 0 22 0 22 0 22	21 13 1 21 13 1 21 13 1 21 13 1	1 28 1 28 1 28 1 28 1 28	9 51 16 51 9 51 16 50 9 50 16 50 9 49 16 49 9 48 16 49	1 3 1 4 1 4 1 4 1 3	0 24 0 25 0 26 0 27	16 52	13 53 0 54 13 53 0 54 13 53 0 54 13 53 0 54
F 11 S 12 S 13	15 26 15 9 14 51		11 6 45	4 39 1 34 4 44 2 4 4 47 2 34	0 23 1 0 28 1 0 34 1	30 0 25	21 22 21 19 21 17	0 12 0 12 0 12	12 6	1 27	15 14 15 15 15 15	0 22	21 13	1 28	9 47 16 48 9 46 16 48 9 45 16 48	1 2 1 2 1 3	0 30		13 53 0 54
M14 T 15 W16 T 17 F 18 S 19	14 32 14 14 13 55 13 36 13 17 12 58	18 14 5 17 22 4 5 15 17 4 1 12 8 3 1	9 7 24 4 50 7 42 4 11 8 3 4 14 8 25 4	4 49 3 34 4 49 3 34 4 47 4 4 4 43 4 33 4 37 5 3 4 30 5 32	0 39 2 0 44 2 0 50 2 0 55 2 1 1 3 1 7 3	17 0 23 33 0 22 48 0 21 4 0 21	21 6		11 58 11 56	1 27 1 27 1 27 1 27	15 16 15 16	0 22 0 22 0 22 0 22	21 13 1 21 13 1 21 13 1 21 13 1	1 28 1 27 1 27 1 27 1 27 1 27	9 44 16 47 9 43 16 47 9 42 16 46 9 41 16 46 9 40 16 45 9 39 16 45	1 4 1 5 1 7 1 9 1 11 1 12	0 34 0 35 0 36 0 38	16 49 16 48 16 47 16 47 16 46 16 45	13 53 0 55 13 53 0 55 13 52 0 55 13 52 0 55
S 20 M21 T 22 W23 T 24 F 25 S 26		12 8 3 4	31 9 41 4 45 10 7 3 51 10 34 3 46 11 0 3 28 11 25 3	4 20 6 1 4 9 6 31 3 57 7 0 3 43 7 28 3 27 7 57 3 11 8 26 2 53 8 54	1 12 3 1 18 3 1 24 4 1 30 4 1 36 4 1 42 4 1 48 5	51 0 18 7 0 18 22 0 17 38 0 16 54 0 16	21 1 3 20 59 3 20 57 7 20 54 5 20 52 5 20 50 5 20 47	0 13 0 13 0 13 0 13 0 13	11 45 11 42 11 40 11 37 11 34 11 32 11 29	1 27 1 27 1 27 1 27 1 27	15 18 15 19 15 19 15 20 15 20 15 21 15 21	0 22 0 22 0 22 0 22 0 22	21 13 1 21 13 1 21 13 1 21 13 1 21 13 1	1 27 1 27 1 27 1 27 1 27 1 27 1 27	9 38 16 45 9 37 16 44 9 36 16 44 9 35 16 43 9 34 16 43 9 33 16 43 9 32 16 42	1 12 1 13 1 12 1 12 1 11 1 11 1 11	0 41 0 43 0 44 0 45 0 46	16 44 16 43 16 42 16 41 16 41 16 40	13 52 0 55 13 51 0 55 13 51 0 56 13 51 0 56 13 50 0 56
S 27 M28 T 29 W30 T 31	9 55 9 34 9 13	18 12 5 1 17 44 5 16 29 4 3	13 12 32 1 1 12 50 36 13 5	2 36 9 22 2 17 9 50 1 59 10 18 1 40 10 46 1 s22 11 s13	1 54 5 2 1 5 2 7 5 2 13 6 2 s 20 6 s	41 0 14 56 0 13 12 0 12	20 45 20 43 20 41 2 20 38 20n36	0 14 0 14 0 14	11 26 11 23 11 21 11 18 11n15	1 27 1 27 1 28	15 22 15 23 15 23 15 24 15 824	0 21 0 21 0 21	21 13 21 13 21 13	1 27 1 27 1 27 1 27 1 27	9 31 16 42 9 30 16 42 9 29 16 41 9 28 16 41 9n27 16n41	1 12 1 13	0 50 0 51 0 53	16 39 16 38 16 37 16 37 16n36	13 49 0 56 13 49 0 56 13 49 0 57

Julian Day Number = 2443721.5, Delta T = 49.15 sec Ecliptic obliquity = $23^{\circ}26'22$, Nutation = $0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}26'28$, Lahiri = $23^{\circ}33'28$

SEPTEMBER 1978 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(并	В	v	v	Ç	& &	Day
F 1	22 39 13	8 mg 12'43	19 Ω 34	210 7	24 <u>₽</u> 16	17 ≏ 32	2999 9	4 Mp 32	13 M 3	15 х 33	15 ♀ 8	26°R47	27 m 41	259520	9°R37	F 1
S 2	22 43 9	9°10'48	1 m) 38	21°39	25°12	18°11	29°21	4°40	13° 5	15°33	15°10	26 Mp 45	27°38	25°27	9 8 36	S 2
S 3	22 47 6	10° 8'55	13°51	22°18	26° 9	18°50	29°33	4°47	13° 7	15°33	15°12	26°43	27°35	25°34	9°35	S 3
M 4	22 51 3	11° 7'04	26°13	23° 6	27° 4	19°29	29°44	4°55	13°10	15°34	15°14	26°D43	27°32	25°40	9°34	M 4
T 5	22 54 59	12° 5'14	8 ≏ 47	24° 2	28° 0	20° 8	29°56	5° 2	13°12	15°34	15°16	26°43	27°28	25°47	9°33	T 5
W 6	22 58 56	13° 3'26	21°34	25° 4	28°54	20°48	oΩ 7	5°10	13°14	15°34	15°18	26°44	27°25	25°54	9°32	W 6
T 7	23 2 52	14° 1'39	4 M .34	26°13	29°49	21°27	0°19	5°17	13°16	15°34	15°20	26°45	27°22	26° 0	9°30	T 7
F 8	23 6 49	14°59'54	17°49	27°29	0 M .42	22° 6	0°30	5°25	13°19	15°35	15°22	26°46	27°19	26° 7	9°29	F 8
S 9	23 10 45	15°58'11	1 ₹ 20	28°50	1°35	22°46	0°41	5°32	13°21	15°35	15°24	26°47	27°16	26°14	9°28	S 9
S 10	23 14 42	16°56'29	15° 8	0 m 17	2°28	23°26	0°53	5°40	13°24	15°35	15°27	26°R47	27°13	26°20	9°26	S 10
M11	23 18 38	17°54'48	29°13	1°48	3°20	24° 5	1° 4	5°48	13°26	15°36	15°29	26°47	27° 9	26°27	9°25	M11
T 12	23 22 35	18°53'09	13 る 33	3°24	4°11	24°45	1°15	5°55	13°29	15°36	15°31	26°47	27° 6	26°34	9°23	T 12
W13	23 26 31	19°51'32	28° 5	5° 3	5° 2	25°25	1°26	6° 2	13°31	15°37	15°33	26°46	27° 3	26°41	9°21	W13
T 14	23 30 28	20°49'56	12≈45	6°45	5°51	26° 5	1°36	6°10	13°34	15°37	15°35	26°45	27° 0	26°47	9°20	T 14
F 15	23 34 25	21°48'22	27°28	8°30	6°41	26°45	1°47	6°17	13°36	15°38	15°37	26°45	26°57	26°54	9°18	F 15
S 16	23 38 21	22°46'49	12 ∺ 5	10°17	7°29	27°25	1°58	6°25	13°39	15°39	15°40	26°44	26°54	27° 1	9°16	S 16
S 17	23 42 18	23°45'18	26°32	12° 5	8°17	28° 5	2° 9	6°32	13°42	15°39	15°42	26°D44	26°50	27° 7	9°15	S 17
M18	23 46 14	24°43'50	10 ℃ 42	13°55	9° 4	28°45	2°19	6°40	13°44	15°40	15°44	26°44	26°47	27°14	9°13	M18
T 19	23 50 11	25°42'23	24°31	15°46	9°50	29°25	2°29	6°47	13°47	15°41	15°46	26°45	26°44	27°21	9°11	T 19
W20	23 54 7	26°40'58	7 8 57	17°37	10°35	OM 5	2°40	6°54	13°50	15°41	15°49	26°R45	26°41	27°28	9° 9	W20
T 21	23 58 4	27°39'35	21° 0	19°28	11°19	0°45	2°50	7° 2	13°53	15°42	15°51	26°45	26°38	27°34	9° 7	T 21
F 22	0 2 0	28°38'15	3 Ⅱ 42	21°20	12° 2	1°26	3° 0	7° 9	13°56	15°43	15°53	26°44	26°34	27°41	9° 5	F 22
S 23	0 5 57	29°36'57	16° 6	23°11	12°45	2° 6	3°10	7°16	13°59	15°44	15°55	26°44	26°31	27°48	9° 3	S 23
S 24	0 9 54	0 ჲ 35'41	28°14	25° 3	13°26	2°47	3°20	7°23	14° 2	15°45	15°58	26°D44	26°28	27°54	9° 1	S 24
M25	0 13 50	1°34'27	109512	26°53	14° 6	3°27	3°30	7°30	14° 5	15°45	16° 0	26°44	26°25	28° 1	8°59	M25
T 26	0 17 47	2°33'15	22° 5	28°44	14°46	4° 8	3°40	7°38	14° 8	15°46	16° 2	26°44	26°22	28° 8	8°57	T 26
W27	0 21 43	3°32'06	3 Ω 57	ე ჲ 33	15°24	4°49	3°49	7°45	14°11	15°47	16° 5	26°45	26°19	28°14	8°55	W27
T 28	0 25 40	4°30'59	15°51	2°22	16° 1	5°29	3°59	7°52	14°14	15°48	16° 7	26°46	26°15	28°21	8°52	T 28
F 29	0 29 36	5°29'54	27°53	4°11	16°36	6°10	4° 8	7°59	14°17	15°49	16° 9	26°47	26°12	28°28	8°50	F 29
S 30	0 33 33	6 ₽ 28'51	10 m) 5	5 ≏ 58	17 M .11	6M51	4Ω 17	8MD 6	14ML20	15 × 750	16 ₽ 12	26 Mp 47	26Mp 9	28935	8 8 48	S 30

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F 1	8n29	11n56 3s1	1 13n27	1s 4 11s40	2 s 2 6 6 s 4	3 0n11	20n34	0n14	11n13	1n28	15 s25	0n21	21 s13	1n27	9n26 16n40	1n17	0n55	16n35	13n48	0 s57
S 2	8 8	8 48 2 1	4 13 34	0 46 12	2 32 6 5	8 0 10	20 31	0 14	11 10	1 28	15 26	0 21	21 13	1 27	9 25 16 40	1 18	0 56	16 34	13 47	0 57
S 3	7 46	5 16 1 1	1 13 37	0 29 12 34	2 39 7	4 0 9	20 29	0 14	11 7	1 28	15 26	0 21	21 13	1 26	9 23 16 40	1 18	0 58	16 34	13 47	0 57
M 4	7 24	-	3 13 37	0 13 13 (9 0 9	20 27	0 15		1 28			21 14	1 26	9 22 16 40	_	0 59		13 46	0 57
T 5	7 2	2 s 2 8 1 n		0n 2 13 26		-		0 15		1 28	-		21 14	1 26	9 21 16 39	_	1 0		13 46	0 57
W 6	6 39	-	3 13 26	0 17 13 52		0 0 7	20 22		10 59		15 28		21 14	1 26	9 20 16 39	-		16 31	-	0 57
T 7 F 8	6 17 5 55		5 13 15 7 13 1	0 30 14 17 0 43 14 42		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20 20 20 20 17		10 56 10 54		15 29 15 30		21 14 21 14	1 26 1 26	9 19 16 39 9 18 16 38	,		16 30 16 30		0 58 0 58
S 9			6 12 43				20 17		10 54		15 30		21 14	1 26	9 17 16 38	-		16 29		0 58
S 10 M11	5 9		0 12 23				20 13		10 48		15 31		21 14		9 16 16 38			16 28		0 58
T 12	4 47	18 10 5 1 17 43 5	7 11 59 4 11 32	1 14 15 56 1 22 16 20		7 0 4		0 15 0 16		1 29 1 29			21 14 21 14	1 26 1 26	9 15 16 38 9 14 16 37	1	1 8		13 43 13 42	0 58 0 58
W13	4 24	16 7 4 3	-	1 22 16 20				0 16			15 34		21 14	1 26	9 14 16 37	1 17	1 10			0 58
T 14	3 38	13 27 3 4		1 35 17		3 0 2		0 16		1 29			21 14	1 26	9 12 16 37	1 17		16 25		0 58
F 15	3 15	9 55 2 3		1 40 17 29		8 0 1	20 1	0 16			15 35		21 15	1 26	9 11 16 37	1 18		16 24	-	0 59
S 16	2 52	5 47 1 2	0 9 19	1 43 17 52	4 5 10 3	3 0 0	19 59	0 16	10 32	1 29	15 36	0 21	21 15	1 26	9 10 16 37	1 18	1 14	16 23	13 39	0 59
S 17	2 29	1 22 0	1 8 40	1 46 18 14	4 11 10 4	·8 0s 0	19 57	0 16	10 30	1 29	15 37	0 21	21 15	1 26	9 9 16 36	1 18	1 15	16 22	13 39	0 59
M18	2 6	3n 3 1s1	7 8 0	1 48 18 35	4 18 11	2 0 1	19 55	0 16	10 27		15 38		21 15	1 26	9 8 16 36	1 18	1 17	16 21	13 38	0 59
T 19	1 42	7 12 2 2	8 7 18	1 50 18 56	4 25 11	7 0 1	19 52	0 16	10 24	1 29	15 39	0 21	21 15	1 26	9 7 16 36	1 18	1 18	16 21	13 37	0 59
W20	1 19	10 51 3 2	9 6 35	1 50 19 17	4 31 11 3	2 0 2	19 50	0 17	10 22	1 29	15 39	0 21	21 15	1 26	9 6 16 36	1 18	1 19	16 20	13 37	0 59
T 21			-	1 50 19 37		7 0 3	-		10 19		15 40		21 15	1 25	9 5 16 36	_	1 20			0 59
F 22	0 33		-	1 49 19 57		2 0 3	-		10 17		15 41		21 15	1 25	9 4 16 36	_		16 18		0 59
S 23	0 9	17 33 5 1	2 4 21	1 47 20 16	6 4 51 12	6 0 4	19 44	0 17	10 14	1 30	15 42	0 21	21 16	1 25	9 3 16 35	1 18	1 23	16 17	13 34	1 0
S 24	0s14	18 8 5 1	7 3 34	1 45 20 35	4 57 12 3	1 0 5	19 41	0 17	10 11	1 30	15 43	0 21	21 16	1 25	9 2 16 35	1 18	1 24	16 16	13 34	1 0
M25	0 38	-,	9 2 48	1 42 20 54		5 0 5		0 17	10 9	1 30	15 44		21 16	1 25	9 1 16 35	1 18	1 26	16 16	13 33	1 0
T 26	1 1	16 54 4 4	7 2 1	1 39 21 11		0 0 6		0 17		1 30			21 16	1 25	9 0 16 35	-	1 27			1 0
W27			-	1 35 21 29				0 18		1 30			21 16	1 25	8 59 16 35		1 28			1 0
T 28	_	12 46 3 2		1 31 21 46				0 18		1 30			21 16	1 25	8 58 16 35	1	1 29	-		1 0
F 29 S 30	2 11	9 48 2 3		1 27 22 2 1n22 22 s17				0 18 0n18	9 59	1 31		-	21 17	1 25 1n25	8 58 16 35	1	1 31	16 12		1 0
3 30	2 s34	6n23 1s3	1 1s 7	1022 2281	5 s 3 4 1 3 s 5	US S	19n29	0118	9n56	11131	15 s49	Un21	21 s17	1n25	8n57 16n35	1n17	11132	16n11	13H29	1 s 0

Julian Day Number = 2443752.5, Delta T = 49.24 sec Ecliptic obliquity = 23°26′23, Nutation = $0^\circ00'00$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^\circ26'32$, Lahiri = $23^\circ33'33$

OCTOBER 1978 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)ұ(并	В	R	Ω	Ç	ķ	Day
S 1	0 37 29	7 ≏ 27'51	22 m/30	7 <u>₽</u> 45	17 M -44	7 M _32	4 Ω 26	8 mg 13	14M23	15 × 751	16 ₽ 14	26°R48	26 m) 6	28941	8°R45	S 1
M = 1	0 3 / 29	8°26'52	5 <u>0</u> 9	9°31	18°16	8°13	4°36	8°20	1411623 14°26	15°53	16°16	26 K48 26 Mp 48	26° 3	28°48	8 8 43	M 2
T 3	0 41 20	9°25'56	18° 4	11°16	18°46	8°54	4°44	8°27	14°29	15°54	16°19	26°47	26° 0	28°55	8°41	T 3
W 4	0 49 19	10°25'01	1ML13	13° 0	19°15	9°36	4°53	8°34	14°33	15°55	16°21	26°46	25°56	29° 1	8°38	W 4
T 5	0 53 16	11°24'09	14°37	14°43	19°42	10°17	5° 2	8°40	14°36	15°56	16°23	26°44	25°53	29° 8	8°36	T 5
F 6	0 57 12	12°23'18	28°13	16°26	20° 8	10°58	5°10	8°47	14°39	15°57	16°26	26°42	25°50	29°15	8°33	F 6
S 7	1 1 9	13°22'29	12 🗷 1	18° 8	20°32	11°40	5°19	8°54	14°43	15°58	16°28	26°40	25°47	29°21	8°31	S 7
S 8	1 5 5	14°21'42	25°59	19°49	20°54	12°21	5°27	9° 1	14°46	16° 0	16°31	26°38	25°44	29°28	8°28	S 8
M 9	1 9 2	15°20'57	10ට 4	21°29	21°15	13° 2	5°35	9° 7	14°49	16° 1	16°33	26°D37	25°40	29°35	8°25	M 9
T 10	1 12 58	16°20'13	24°15	23° 8	21°34	13°44	5°43	9°14	14°53	16° 2	16°35	26°37	25°37	29°42	8°23	T 10
W11	1 16 55	17°19'32	8≈29	24°47	21°50	14°26	5°51	9°21	14°56	16° 4	16°38	26°38	25°34	29°48	8°20	W11
T 12	1 20 51	18°18'52	22°45	26°25	22° 5	15° 7	5°59	9°27	14°59	16° 5	16°40	26°40	25°31	29°55	8°18	T 12
F 13	1 24 48	19°18'13	7 ∺ 0	28° 2	22°18	15°49	6° 7	9°34	15° 3	16° 7	16°42	26°41	25°28	oΩ 2	8°15	F 13
S 14	1 28 45	20°17'37	21° 9	29°38	22°28	16°31	6°14	9°40	15° 6	16° 8	16°45	26°R42	25°25	0° 8	8°12	S 14
S 15	1 32 41	21°17'02	5 Υ 11	1 M .14	22°37	17°13	6°22	9°46	15°10	16° 9	16°47	26°42	25°21	0°15	8° 9	S 15
M16	1 36 38	22°16'29	19° 1	2°49	22°43	17°55	6°29	9°53	15°13	16°11	16°50	26°40	25°18	0°22	8° 7	M16
T 17	1 40 34	23°15'58	2 8 36	4°23	22°47	18°37	6°36	9°59	15°17	16°12	16°52	26°38	25°15	0°28	8° 4	T 17
W18	1 44 31	24°15'30	15°54	5°57	22°R48	19°19	6°43	10° 5	15°20	16°14	16°54	26°34	25°12	0°35	8° 1	W18
T 19	1 48 27	25°15'03	28°53	7°30	22°48	20° 1	6°50	10°11	15°24	16°16	16°57	26°29	25° 9	0°42	7°58	T 19
F 20	1 52 24	26°14'39	11 II 34	9° 2	22°44	20°43	6°57	10°17	15°28	16°17	16°59	26°24	25° 5	0°49	7°55	F 20
S 21	1 56 20	27°14'17	23°58	10°34	22°39	21°25	7° 3	10°23	15°31	16°19	17° 1	26°20	25° 2	0°55	7°53	S 21
S 22	2 0 17	28°13'57	6 9 7	12° 6	22°31	22° 8	7° 9	10°29	15°35	16°20	17° 4	26°16	24°59	1° 2	7°50	S 22
M23	2 4 14	29°13'39	18° 6	13°36	22°20	22°50	7°16	10°35	15°38	16°22	17° 6	26°14	24°56	1° 9	7°47	M23
T 24	2 8 10	0 M 13'24	29°58	15° 6	22° 8	23°33	7°22	10°41	15°42	16°24	17° 8	26°D13	24°53	1°15	7°44	T 24
W25	2 12 7	1°13'11	11 Ω 49	16°36	21°52	24°15	7°28	10°47	15°46	16°25	17°11	26°14	24°50	1°22	7°41	W25
T 26	2 16 3	2°13'00	23°44	18° 5	21°35	24°58	7°33	10°52	15°49	16°27	17°13	26°15	24°46	1°29	7°38	T 26
F 27	2 20 0	3°12'51	5 m) 47	19°33	21°15	25°40	7°39	10°58	15°53	16°29	17°15	26°17	24°43	1°35	7°35	F 27
S 28	2 23 56	4°12'44	18° 3	21° 1	20°53	26°23	7°44	11° 4	15°57	16°31	17°18	26°18	24°40	1°42	7°33	S 28
S 29	2 27 53	5°12'40	0 ჲ 37	22°28	20°29	27° 6	7°50	11° 9	16° 0	16°32	17°20	26°R19	24°37	1°49	7°30	S 29
M30	2 31 49	6°12'37	13°29	23°54	20° 3	27°49	7°55	11°15	16° 4	16°34	17°22	26°17	24°34	1°55	7°27	M30
T 31	2 35 46	7 M 12'37	26 ≏ 43	25 M 20	19 M .35	28 M 32	8Ω 0	11 m 20	16 M 8	16 ₹ 36	17 ≏ 24	26 Mp 14	24 Mp 31	2 N 2	7 8 24	T 31

Day	0	D	ğ	Ф	♂	4	ħ)Å(卉	Р	n	υ ţ	ķ
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S 1 M 2 T 3 W 4 T 5 F 6	-	2n37 0s24 1s21 0n46 5 19 1 55 9 6 2 59 12 29 3 55 15 15 4 38	2 41 1 1 3 27 1 0 4 13 1 0 4 58 0 5	7 22 s33 5 s39 14: 1 22 47 5 45 14 6 23 1 5 50 14 0 23 14 5 56 14 4 23 27 6 1 15 8 23 39 6 6 15	24 0 10 38 0 11 52 0 11 5 0 12	19 23 0 18 19 21 0 19 19 19 0 19	9 51 1 31 9 49 1 31 9 46 1 31 9 44 1 31	15 52 0 21	21 s17 1n25 21 17 1 25 21 17 1 25 21 17 1 25 21 17 1 25 21 18 1 25 21 18 1 25	8n56 16n35 8 55 16 35 8 54 16 34 8 53 16 34 8 52 16 34 8 51 16 34	1n16 1 16 1 17 1 17 1 18 1 19	1 37 16 1 38 16	
S 7	5 17	17 11 5 5	6 28 0 4	1 23 50 6 11 15	32 0 13	19 15 0 19	9 39 1 32	15 55 0 21	21 18 1 25	8 50 16 34	1 20	1 41 16	5 13 22 1 1
S 8 M 9 T 10 W11 T 12 F 13 S 14	6 3 6 25	17 57 5 7 16 40 4 40 14 21 3 55 11 9 2 56 7 18 1 46	7 56 0 26 8 39 0 22 9 22 0 13 10 4 0 3 10 45 0	5 24 0 6 15 15 8 24 10 6 20 15 2 24 19 6 24 16 5 24 27 6 27 16 8 24 35 6 31 16 1 24 41 6 34 16 6 24 47 6 37 17	59 0 14 12 0 15 25 0 16 38 0 16	19 9 0 20 19 8 0 20 19 6 0 20 19 4 0 20	9 34 1 32 9 32 1 32	16 1 0 20	21 18 1 25 21 18 1 25 21 18 1 25 21 19 1 24 21 19 1 24 21 19 1 24 21 19 1 24	8 49 16 34 8 48 16 34 8 48 16 34 8 47 16 34 8 46 16 34 8 45 16 34 8 44 16 34	1 20 1 21 1 21 1 20 1 20 1 19 1 19	1 43 16 1 44 16 1 46 16 1 47 16	4 13 22 1 1 3 13 21 1 1 3 13 20 1 1 2 13 19 1 2 1 13 18 1 2 0 13 17 1 2 9 13 16 1 2
S 15 M16 T 17 W18 T 19 F 20 S 21		9 29 3 4 12 48 3 58 15 24 4 37 17 11 5 2	12 45 0 20 13 24 0 2' 14 2 0 3: 14 39 0 40 15 15 0 4'	7 24 58 6 43 17 3 24 59 6 45 17	28 0 19 40 0 19 52 0 20 4 0 20 16 0 21	18 59 0 21	9 14 1 34 9 12 1 34 9 10 1 34	16 5 0 20 16 6 0 20 16 7 0 20 16 8 0 20 16 9 0 20	21 19 1 24 21 20 1 24 21 21 1 24	8 43 16 35 8 42 16 35 8 42 16 35 8 41 16 35 8 40 16 35 8 39 16 35 8 39 16 35	1 19 1 19 1 20 1 22 1 24 1 26 1 28	1 51 15 5 1 52 15 5 1 53 15 5 1 55 15 5 1 56 15 5 1 57 15 5 1 58 15 5	7 13 14 1 2 6 13 13 1 2 5 13 12 1 2 4 13 11 1 2 4 13 10 1 2
S 22 M23 T 24 W25 T 26 F 27 S 28	11 12 11 33 11 54	17 25 4 50 15 55 4 20 13 44 3 39 10 58 2 48 7 42 1 50	16 59 1 17 32 1 13 18 4 1 20 18 36 1 20	0 24 38 6 38 19 6 24 30 6 35 19 2 24 21 6 31 19	51 0 23 2 0 23 13 0 24 24 0 25 35 0 25	18 48 0 22 18 47 0 22 18 46 0 22 18 44 0 22 18 43 0 22	9 3 1 34 9 1 1 35 8 59 1 35 8 57 1 35 8 55 1 35	16 12 0 20 16 13 0 20 16 14 0 20 16 15 0 20 16 16 0 20	21 21 1 24 21 21 1 24 21 21 1 24 21 21 1 24 21 22 1 24 21 22 1 24 21 22 1 24	8 38 16 35 8 37 16 35 8 36 16 35 8 36 16 36 8 35 16 36 8 34 16 36 8 33 16 36	1 29 1 30 1 30 1 30 1 29 1 29 1 28	2 0 15 5 2 1 15 5 2 2 15 5 2 3 15 4 2 5 15 4 2 6 15 4 2 7 15 4	1 13 7 1 3 0 13 6 1 3 9 13 5 1 3 8 13 4 1 3 7 13 3 1 3
S 29 M30 T 31	13 16 13 35 13 s55		20 31 1 50	4 23 58 6 20 19 0 23 45 6 14 20 5 23 s30 6 s 7 20 s	7 0 27		8 49 1 36	16 19 0 20	21 22 1 24 21 22 1 24 21 s23 1n24	8 33 16 36 8 32 16 36 8n31 16n37	1 28 1 29 1n30	2 8 15 4 2 10 15 4 2n11 15n4	4 13 0 1 3

Julian Day Number = 2443782.5, Delta T = 49.33 sec Ecliptic obliquity = $23^{\circ}26'23$, Nutation = - $0^{\circ}00'02$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}26'36$, Lahiri = $23^{\circ}33'37$

NOVEMBER 1978 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(¥	Р	ß	Ω	Ç	ę,	Day
W 1	2 39 43	8 M .12'38	10 M .16	26M45	19°R 5	29 M 15	8 Ω 4	11 m 25	16ML12	16 ₹ 38	17 Ω 27	26°R 8	24 Mp 27	2 N 9	7°R21	W 1
T 2	2 43 39	9°12'42	24° 7	28° 9	18 M .34	29°58	8° 9	11°30	16°15	16°40	17°29	26Mp 2	24°24	2°16	7 8 18	T 2
F 3	2 47 36	10°12'47	8 ∡ 12	29°33	18° 1	0 ∡ 741	8°13	11°36	16°19	16°42	17°31	25°54	24°21	2°22	7°15	F 3
S 4	2 51 32	11°12'54	22°27	0 ₹ 56	17°27	1°24	8°17	11°41	16°23	16°44	17°33	25°47	24°18	2°29	7°12	S 4
S 5	2 55 29	12°13'03	6 ප 45	2°17	16°52	2° 7	8°22	11°46	16°26	16°46	17°36	25°41	24°15	2°36	7° 9	S 5
M 6	2 59 25	13°13'13	21° 3	3°38	16°17	2°50	8°25	11°51	16°30	16°48	17°38	25°37	24°11	2°42	7° 6	M 6
T 7	3 3 22	14°13'25	5≈18	4°58	15°40	3°34	8°29	11°55	16°34	16°49	17°40	25°35	24° 8	2°49	7° 3	T 7
W 8	3 7 18	15°13'38	19°26	6°16	15° 4	4°17	8°33	12° 0	16°38	16°51	17°42	25°D34	24° 5	2°56	7° 1	W 8
T 9	3 11 15	16°13'53	3 ∺ 26	7°34	14°27	5° 1	8°36	12° 5	16°41	16°53	17°44	25°35	24° 2	3° 2	6°58	T 9
F 10	3 15 12	17°14'09	17°18	8°49	13°51	5°44	8°39	12° 9	16°45	16°55	17°46	25°36	23°59	3° 9	6°55	F 10
S 11	3 19 8	18°14'26	1 Υ 2	10° 4	13°15	6°28	8°42	12°14	16°49	16°58	17°49	25°R36	23°56	3°16	6°52	S 11
S 12	3 23 5	19°14'45	14°36	11°16	12°40	7°11	8°45	12°18	16°53	17° 0	17°51	25°35	23°52	3°22	6°49	S 12
M13	3 27 1	20°15'05	28° 1	12°26	12° 6	7°55	8°47	12°23	16°56	17° 2	17°53	25°31	23°49	3°29	6°46	M13
T 14	3 30 58	21°15'27	11 8 14	13°34	11°33	8°39	8°50	12°27	17° 0	17° 4	17°55	25°24	23°46	3°36	6°44	T 14
W15	3 34 54	22°15'51	24°15	14°40	11° 1	9°22	8°52	12°31	17° 4	17° 6	17°57	25°15	23°43	3°43	6°41	W15
T 16	3 38 51	23°16'16	7 I I 2	15°42	10°31	10° 6	8°54	12°35	17° 8	17° 8	17°59	25° 4	23°40	3°49	6°38	T 16
F 17	3 42 47	24°16'43	19°35	16°41	10° 3	10°50	8°56	12°39	17°11	17°10	18° 1	24°53	23°37	3°56	6°35	F 17
S 18	3 46 44	25°17'12	1954	17°37	9°37	11°34	8°57	12°43	17°15	17°12	18° 3	24°42	23°33	4° 3	6°33	S 18
S 19	3 50 41	26°17'42	14° 1	18°28	9°12	12°18	8°59	12°47	17°19	17°14	18° 5	24°33	23°30	4° 9	6°30	S 19
M20	3 54 37	27°18'14	25°58	19°15	8°50	13° 2	9° 0	12°50	17°22	17°16	18° 7	24°25	23°27	4°16	6°27	M20
T 21	3 58 34	28°18'48	7 Ω 49	19°56	8°31	13°47	9° 1	12°54	17°26	17°19	18° 9	24°21	23°24	4°23	6°25	T 21
W22	4 2 30	29°19'24	19°38	20°31	8°13	14°31	9° 2	12°58	17°30	17°21	18°11	24°18	23°21	4°29	6°22	W22
T 23	4 6 27	0 ₮ 20'01	1 m 31	21° 0	7°58	15°15	9° 3	13° 1	17°34	17°23	18°13	24°D18	23°17	4°36	6°19	T 23
F 24	4 10 23	1°20'40	13°32	21°21	7°46	15°59	9° 3	13° 4	17°37	17°25	18°15	24°18	23°14	4°43	6°17	F 24
S 25	4 14 20	2°21'20	25°47	21°34	7°36	16°44	9° 4	13° 8	17°41	17°27	18°16	24°R18	23°11	4°49	6°14	S 25
S 26	4 18 16	3°22'03	8 ₾ 22	21°R38	7°28	17°28	9°R 4	13°11	17°45	17°29	18°18	24°18	23° 8	4°56	6°12	S 26
M27	4 22 13	4°22'46	21°19	21°32	7°23	18°13	9° 3	13°14	17°48	17°32	18°20	24°14	23° 5	5° 3	6° 9	M27
T 28	4 26 10	5°23'32	4 M .43	21°16	7°21	18°57	9° 3	13°17	17°52	17°34	18°22	24° 9	23° 2	5°10	6° 7	T 28
W29	4 30 6	6°24'18	18°32	20°48	7°D20	19°42	9° 3	13°20	17°55	17°36	18°24	24° 0	22°58	5°16	6° 4	W29
T 30	4 34 3	7 ₹ 125'07	2 √ 146	20 х 10	7 m 23	20 × 27	9 N 2	13 M 22	17 M 59	17 . ₹38	18 ≏ 25	23 Mp 50	22 m 55	5 Ω 23	6 8 2	T 30

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F 3 S 4	14 53 15 12	16 50 4 54 18 6 5 8				18 35 0 24 18 35 0 24			21 23 1 24 21 24 1 24	8 30 16 37 8 29 16 37	1 38 1 41	2 15 15 4 2 16 15 40	
S 5 M 6 T 7		18 14 5 2 17 12 4 38 15 6 3 5	3 23 13 2 23	9 21 59 5 20 3 21 38 5 9 5 21 15 4 57	21 14 0 31	18 34 0 24 18 33 0 24 18 32 0 24	8 37 1 37	16 27 0 20	21 24 1 23 21 24 1 23 21 24 1 23	8 28 16 38 8 28 16 38 8 27 16 38	1 43 1 45 1 45	2 17 15 39 2 18 15 38 2 20 15 3°	8 12 53 1 4
W 8 T 9 F 10 S 11	16 24 16 42 16 59 17 16	4 20 0 4	7 24 5 2 32 5 24 19 2 35	2 20 29 4 31 5 20 5 4 17	21 40 0 32 21 48 0 33	18 31 0 25 18 31 0 25 18 30 0 25 18 29 0 25	8 32 1 38 8 31 1 38	16 30 0 20 16 31 0 20	21 24 1 23 21 25 1 23 21 25 1 23 21 25 1 23	8 27 16 38 8 26 16 39 8 26 16 39 8 25 16 39	1 46 1 45 1 45 1 45	2 21 15 30 2 22 15 33 2 23 15 34 2 25 15 33	5 12 50 1 4 4 12 49 1 4
S 12 M13 T 14 W15 T 16 F 17 S 18	18 20 18 35 18 50	8 12 2 43 11 43 3 39 14 37 4 2 16 44 4 49	5 24 55 2 39 9 25 4 2 40 1 25 12 2 40 9 25 18 2 39 8 25 23 2 37	0 18 51 3 33 0 18 26 3 18 0 18 2 3 3 0 17 38 2 47 7 17 14 2 32	22 12 0 35 22 19 0 35 22 27 0 36 22 34 0 36 22 41 0 37	18 29 0 25 18 28 0 25 18 28 0 26 18 28 0 26 18 27 0 26 18 27 0 26 18 27 0 26	8 26 1 39 8 25 1 39 8 23 1 39 8 22 1 39 8 21 1 40	16 34 0 20 16 36 0 20 16 37 0 20 16 38 0 20 16 39 0 20	21 25 1 23 21 26 1 23 21 27 1 23	8 25 16 39 8 24 16 40 8 24 16 40 8 23 16 40 8 23 16 41 8 22 16 41 8 22 16 41	1 45 1 47 1 50 1 53 1 58 2 2 2 6	2 26 15 3: 2 27 15 3 2 29 15 30 2 30 15 29 2 31 15 20 2 32 15 2: 2 34 15 20	1 12 46 1 4 0 12 45 1 5 9 12 44 1 5 8 12 43 1 5 7 12 42 1 5
S 19 M20 T 21 W22 T 23 F 24 S 25	19 33 19 47	5 36 0 5	25 27 2 27 25 25 2 22 4 25 21 2 15 3 25 15 2 7 7 25 8 1 58	2 15 46 1 31 5 15 26 1 16 7 15 8 1 1 8 14 50 0 47	23 0 0 38 23 6 0 39 23 11 0 39 23 17 0 40 23 22 0 40	18 26 0 27 18 26 0 28 18 26 0 28	8 17 1 40 8 16 1 41 8 15 1 41 8 14 1 41 8 13 1 41	16 42 0 20 16 43 0 20 16 44 0 20 16 45 0 20 16 46 0 20	21 27 1 23 21 27 1 23 21 27 1 23 21 28 1 23	8 21 16 42 8 21 16 42 8 21 16 42 8 20 16 43 8 20 16 44 8 19 16 44	2 10 2 13 2 15 2 16 2 16 2 16 2 16 2 16	2 35 15 23 2 36 15 24 2 37 15 23 2 39 15 23 2 40 15 2 2 41 15 20 2 42 15 19	4 12 39 1 5 3 12 38 1 5 2 12 37 1 5 1 12 36 1 5 0 12 35 1 5
	_	6 11 2 18 10 0 3 17 13 24 4 6	3 24 33 1 23 7 24 17 1 8 6 23 59 0 52	3 14 4 0 5 3 13 50 0n 8 2 13 39 0 20	23 37 0 42 23 41 0 42 23 45 0 43	18 27 0 28 18 27 0 28 18 27 0 28 18 27 0 29 18n28 0n29	8 10 1 42 8 9 1 42 8 8 1 43	16 49 0 20 16 50 0 20 16 51 0 20	21 28 1 23 21 29 1 23 21 29 1 23 21 29 1 23 21 s29 1n23	8 19 16 44 8 19 16 45 8 18 16 45 8 18 16 46 8n18 16n46	2 16 2 17 2 20 2 23 2n27	2 44 15 13 2 45 15 17 2 46 15 16 2 47 15 13 2n49 15n14	7 12 33 1 5 6 12 32 1 5 5 12 31 1 5

Julian Day Number = 2443813.5, Delta T = 49.41 sec Ecliptic obliquity = 23°26'22, Nutation = - 0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 24°26'41, Lahiri = 23°33'41

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ)f(卉	Р	v	ß	Ç	ķ	Day
F 1	4 37 59	8 × 125'56	17 √ 17	19°R21	7 M 27	21 🗷 11	9°R 1	13 m 25	18 M 3	17 ×7 41	18 <u>₽</u> 27	23°R38	22 m 52	5 Ω 30	6°R 0	F 1
S 2	4 41 56	9°26'47	2පි 1	18 ∡ 22	7°34	21°56	9⋒ 0	13°28	18° 6	17°43	18°29	23 m 27	22°49	5°36	5 8 57	S 2
S 3	4 45 52	10°27'39	16°47	17°14	7°44	22°41	8°58	13°30	18°10	17°45	18°30	23°16	22°46	5°43	5°55	S 3
M 4	4 49 49	11°28'31	1≈28	15°59	7°55	23°26	8°57	13°32	18°13	17°47	18°32	23° 9	22°43	5°50	5°53	M 4
T 5	4 53 45	12°29'25	15°59	14°38	8° 9	24°11	8°55	13°35	18°17	17°50	18°34	23° 4	22°39	5°56	5°50	T 5
W 6	4 57 42	13°30'19	0) (14	13°16	8°25	24°56	8°53	13°37	18°20	17°52	18°35	23° 2	22°36	6° 3	5°48	W 6
T 7	5 1 39	14°31'14	14°13	11°53	8°42	25°41	8°51	13°39	18°24	17°54	18°37	23° 2	22°33	6°10	5°46	T 7
F 8	5 5 35	15°32'09	27°56	10°34	9° 2	26°26	8°49	13°41	18°27	17°56	18°38	23° 1	22°30	6°16	5°44	F 8
S 9	5 9 32	16°33'06	11 Y 24	9°21	9°24	27°11	8°46	13°42	18°31	17°59	18°40	23° 1	22°27	6°23	5°42	S 9
S 10	5 13 28	17°34'02	24°38	8°15	9°47	27°56	8°44	13°44	18°34	18° 1	18°41	22°58	22°23	6°30	5°40	S 10
M11	5 17 25	18°35'00	7 8 40	7°19	10°13	28°41	8°41	13°46	18°37	18° 3	18°43	22°52	22°20	6°36	5°38	M11
T 12	5 21 21	19°35'58	20°31	6°33	10°40	2 <u>9</u> °27	8°38	13°47	18°41	18° 5	18°44	22°43	22°17	6°43	5°36	T 12
W13	5 25 18	20°36'57	3 I I12	5°59	11° 9	0 궁 12	8°35	13°48	18°44	18° 8	18°45	22°31	22°14	6°50	5°34	W13
T 14	5 29 14	21°37'57	15°43	5°36	11°39	0°57	8°31	13°50	18°47	18°10	18°47	22°17	22°11	6°57	5°33	T 14
F 15	5 33 11	22°38'58	28° 3	5°24	12°11	1°43	8°27	13°51	18°51	18°12	18°48	22° 2	22° 8	7° 3	5°31	F 15
S 16	5 37 8	23°39'59	109513	5°D22	12°45	2°28	8°24	13°52	18°54	18°14	18°49	21°48	22° 4	7°10	5°29	S 16
S 17	5 41 4	24°41'01	22°15	5°30	13°19	3°14	8°20	13°53	18°57	18°17	18°51	21°35	22° 1	7°17	5°27	S 17
M18	5 45 1	25°42'04	4 Ω 9	5°47	13°56	3°59	8°15	13°54	19° 0	18°19	18°52	21°25	21°58	7°23	5°26	M18
T 19	5 48 57	26°43'07	15°58	6°12	14°34	4°45	8°11	13°54	19° 4	18°21	18°53	21°17	21°55	7°30	5°24	T 19
W20	5 52 54	27°44'12	27°45	6°45	15°12	5°31	8° 7	13°55	19° 7	18°24	18°54	21°13	21°52	7°37	5°23	W20
T 21	5 56 50	28°45'17	9 ₯ 36	7°24	15°53	6°16	8° 2	13°55	19°10	18°26	18°55	21°11	21°48	7°43	5°21	T 21
F 22	6 0 47	29°46'23	21°34	8°10	16°34	7° 2	7°57	13°56	19°13	18°28	18°57	21°D11	21°45	7°50	5°20	F 22
S 23	6 4 43	0 る 47'29	3 ≏ 45	9° 0	17°17	7°48	7°52	13°56	19°16	18°30	18°58	21°R11	21°42	7°57	5°18	S 23
S 24	6 8 40	1°48'37	16°16	9°55	18° 0	8°34	7°47	13°56	19°19	18°32	18°59	21°10	21°39	8° 3	5°17	S 24
M25	6 12 37	2°49'45	29°10	10°54	18°45	9°20	7°41	13°R56	19°22	18°35	19° 0	21° 7	21°36	8°10	5°16	M25
T 26	6 16 33	3°50'54	12 M 31	11°57	19°31	10° 6	7°36	13°56	19°25	18°37	19° 1	21° 2	21°33	8°17	5°15	T 26
W27	6 20 30	4°52'03	26°23	13° 2	20°17	10°52	7°30	13°56	19°28	18°39	19° 2	20°55	21°29	8°23	5°13	W27
T 28	6 24 26	5°53'13	10 ∡ 744	14°11	21° 5	11°38	7°24	13°56	19°31	18°41	19° 2	20°45	21°26	8°30	5°12	T 28
F 29	6 28 23	6°54'23	25°29	15°22	21°54	12°24	7°18	13°55	19°34	18°43	19° 3	20°33	21°23	8°37	5°11	F 29
S 30	6 32 19	7°55'34	10 ਰ 31	16°35	22°43	13°10	7°12	13°55	19°36	18°46	19° 4	20°22	21°20	8°43	5°10	S 30
S 31	6 36 16	8 ප 56'44	25 る 40	17 ∡ 750	23 M 33	13 る 56	7 Ω 6	13 m 54	19 M .39	18 ∡ 748	19 ჲ 5	20 m 12	21 M 17	8 Ω 50	5 8 9	S 31

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S 3 M 4 T 5 W 6	22 1 22 9 22 18 22 25	15 59 3 57 13 8 3 3	21 29 1	14 12 56 1 17 24 4 12 51 1 27 24	2 0 45 4 0 45	18 30 0 30	8 5 1 44 8 4 1 44 8 4 1 44 8 3 1 44	16 56 0 20 16 57 0 20	21 30 1 23 21 30 1 23 21 30 1 23 21 31 1 23	8 17 16 47 8 17 16 48 8 17 16 48 8 17 16 49	2 43 2 45		11 12 28 1 6 10 12 27 1 6 9 12 26 1 6 8 12 25 1 6
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S 10 M11 T 12 W13	22 51 22 57 23 2 23 6	10 43 3 32 13 47 4 14 16 10 4 43	18 45 2 4 18 34 2 4	34 12 41 2 19 24 42 12 42 2 27 24 47 12 44 2 33 24	14 0 48 15 0 49 15 0 49	18 35 0 31 18 35 0 31 18 36 0 31 18 38 0 32	8 1 1 45 8 1 1 46 8 0 1 46 8 0 1 46	17 3 0 20 17 4 0 20 17 5 0 20	21 31 1 23 21 32 1 23 21 32 1 23 21 32 1 23	8 16 16 51 8 16 16 51 8 16 16 52 8 16 16 52	2 50 2 54	3 1 15 3 2 15 3 4 15 3 5 15	4 12 23 1 6 3 12 22 1 6 2 12 21 1 6 1 12 21 1 6
T 14 F 15 S 16	23 14 23 17		18 24 2 5 18 24 2 5	51 12 51 2 46 24 51 12 56 2 52 24	15 0 50 15 0 50	18 39 0 32 18 40 0 32 18 41 0 32	8 0 1 46 8 0 1 47 7 59 1 47	17 6 0 20 17 7 0 20	21 32 1 23 21 32 1 23 21 33 1 23	8 16 16 53 8 16 16 53 8 16 16 54	3 10 3 15	3 9 14	0 12 20 1 6 59 12 19 1 6 58 12 19 1 6
S 17 M18 T 19 W20 T 21	23 22 23 24 23 25 23 26	15 38 3 41 13 16 2 55 10 22 2 1 7 2 1 1	18 41 2 4 18 51 2 3 19 3 2 3	46 13 7 3 3 24 42 13 13 3 7 24 37 13 20 3 12 24 32 13 28 3 16 24	14 0 51 13 0 51 11 0 52 10 0 52	18 43 0 33 18 45 0 33 18 46 0 33 18 48 0 33	7 59 1 48 7 59 1 48	17 9 0 20 17 10 0 20 17 11 0 20 17 12 0 20	21 33 1 23 21 33 1 23 21 33 1 23 21 33 1 23 21 34 1 23	8 16 16 54 8 16 16 55 8 16 16 55 8 16 16 56 8 16 16 56	3 24 3 27 3 29 3 30	3 11 14 3 12 14 3 14 14 3 15 14	57 12 18 1 6 55 12 18 1 6 54 12 17 1 6 53 12 16 1 6 52 12 16 1 6
F 22 S 23 S 24 M25	23 26 23 26 23 26 23 25	0s29 1 6 4 25 2 9	19 47 2 1	25 13 36 3 20 24 18 13 44 3 24 24 11 13 53 3 27 24 4 14 2 3 30 24	5 0 53 3 0 53	18 50 0 34 18 52 0 34	8 0 1 49 8 0 1 49	17 13 0 20 17 14 0 20	21 34 1 23 21 34 1 23 21 34 1 23 21 34 1 23	8 16 16 57 8 17 16 57 8 17 16 58 8 17 16 58	3 30 3 30	3 17 14 3 19 14	51 12 15 1 6 50 12 15 1 6 49 12 15 1 6 48 12 14 1 6
T 26 W27 T 28 F 29	23 23 23 21 23 18 23 16	11 50 3 57 14 53 4 35 17 9 4 57 18 21 5 0	20 19 1 5 20 35 1 4 20 51 1 3 21 8 1 3	56 14 12 3 33 23 48 14 21 3 35 23 39 14 32 3 38 23 31 14 42 3 40 23	3 57 0 54 3 54 0 54 3 50 0 55 3 47 0 55	18 55 0 34 18 57 0 34 18 58 0 34 19 0 0 35	8 0 1 50 8 0 1 50 8 1 1 50 8 1 1 50	17 16 0 20 17 16 0 20 17 17 0 20 17 18 0 20	21 35 1 23 21 35 1 23 21 35 1 23 21 35 1 23	8 17 16 59 8 17 17 0 8 17 17 0 8 18 17 1	3 33 3 36 3 40 3 45	3 21 14 3 22 14 3 24 14 3 25 14	47 12 14 1 6 46 12 13 1 6 45 12 13 1 6 44 12 13 1 6
				23 14 53 3 41 23 14 15 4 3 3 43 23		19 2 0 35 19n 4 0n35			21 35 1 23 21 s35 1n23	8 18 17 1 8n18 17n 2			43 12 12 1 6 42 12n12 1 s 6

Julian Day Number = 2443843.5, Delta T = 49.50 sec Ecliptic obliquity = $23^{\circ}26'22$, Nutation = - $0^{\circ}00'03$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $24^{\circ}26'45$, Lahiri = $23^{\circ}33'45$